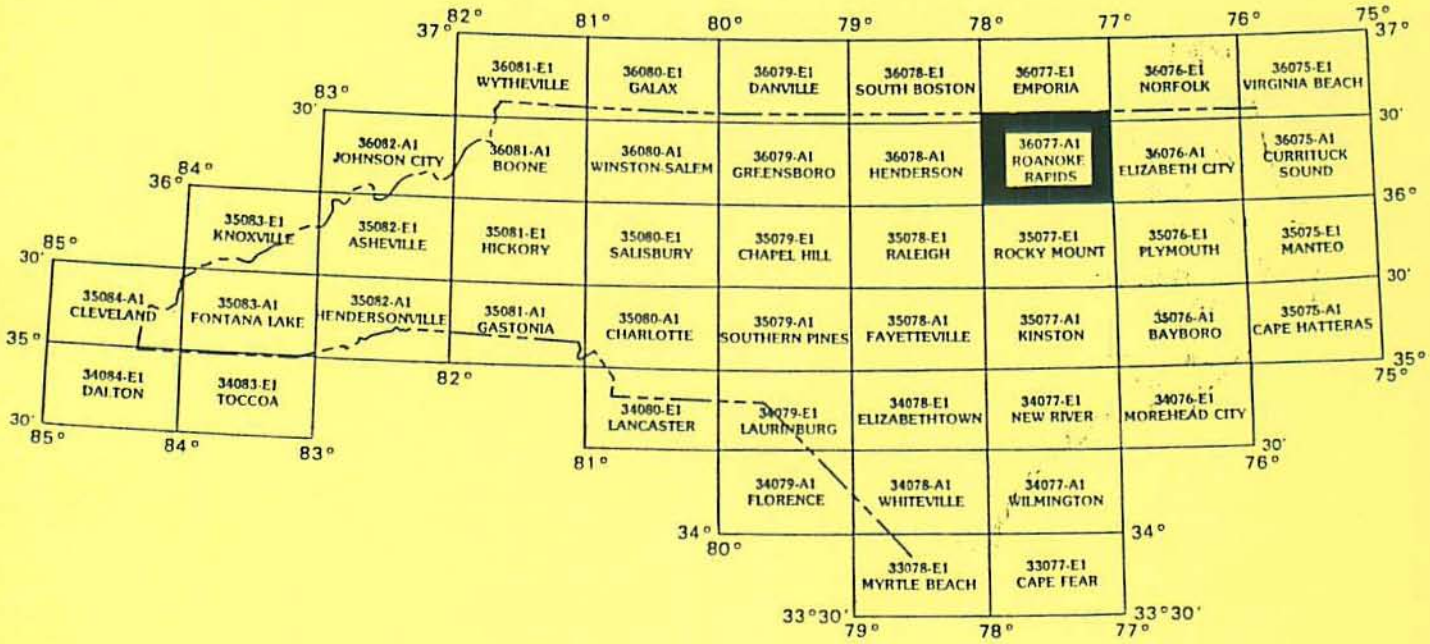
# Listing of Concentrations of Variables of Stream Sediment, Stream Water, and Groundwater for the Emporia and Roanoke Rapids 30 x 60 - Minute Quadrangles -NURE Database

by
**Robert H. Carpenter and Jeffrey C. Reid**




**NORTH CAROLINA GEOLOGICAL SURVEY**
**OPEN-FILE REPORT 93-25**

**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

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Jeffrey C. Reid
Chief Geologist

# Listing of Concentrations of Variables of Stream Sediment, Stream Water, and Groundwater for the Emporia and Roanoke Rapids 30 x 60 - Minute Quadrangles -NURE Database

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## INTRODUCTION

This report is a compilation of geochemical data for stream sediment and groundwater for the Emporia and Roanoke Rapids 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.

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## COUNTY CODES

| Code | County |
|---|---|
| BR | Bertie |
| ED | Edgecombe |
| HA | Halifax |
| HT | Hertford |
| MR | Martin |
| NA | Nash |
| NO | Northampton |
| WR | Warren |

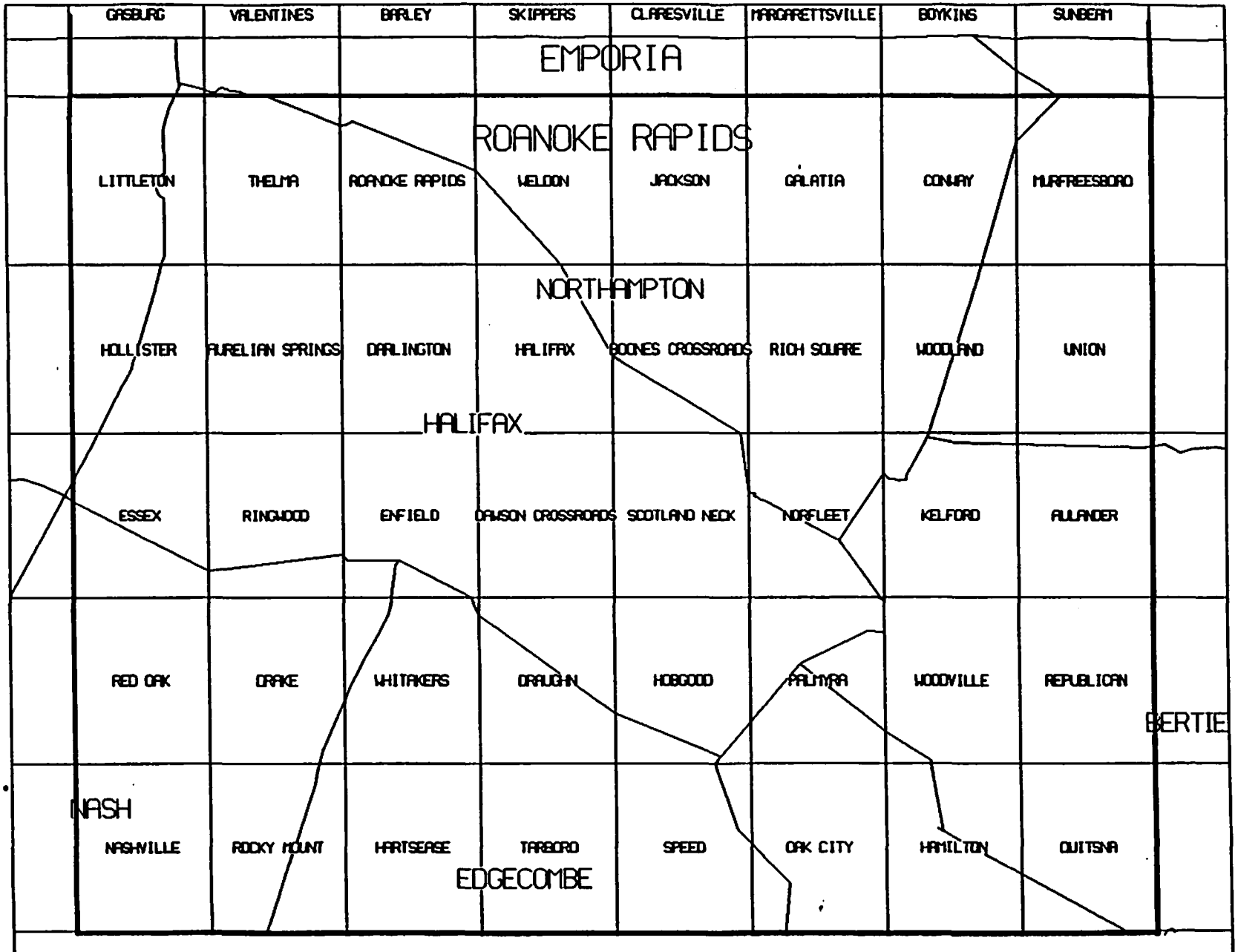


**Figure 1. Map Showing Outlines of Emporia and Roanoke Rapids 30 x 60 Minute - Quadrangles and Contained 7 - 1/2 Minute Quadrangles.**

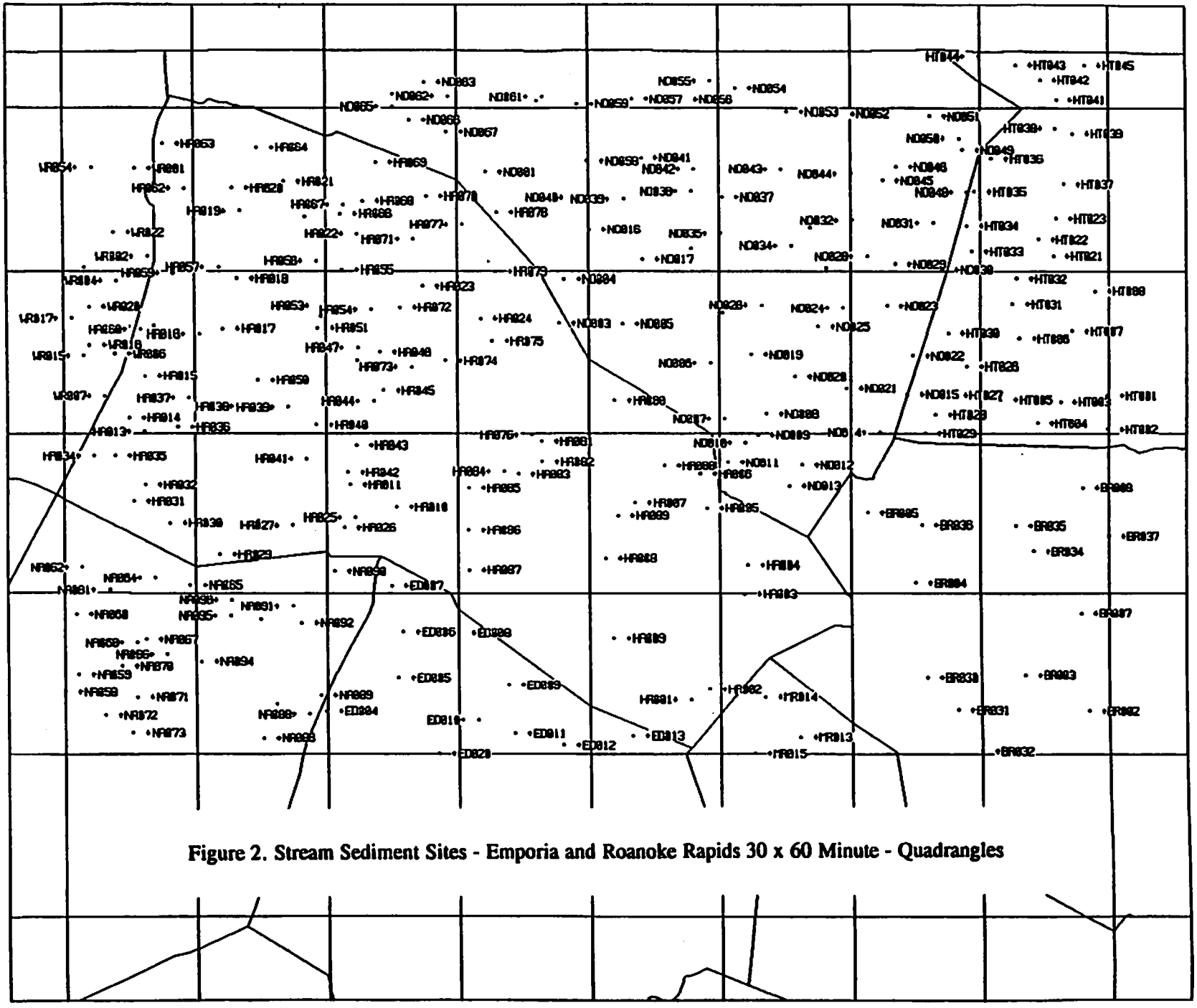

Figure 2. Stream Sediment Sites - Emporia and Roanoke Rapids 30 x 60 Minute - Quadrangles

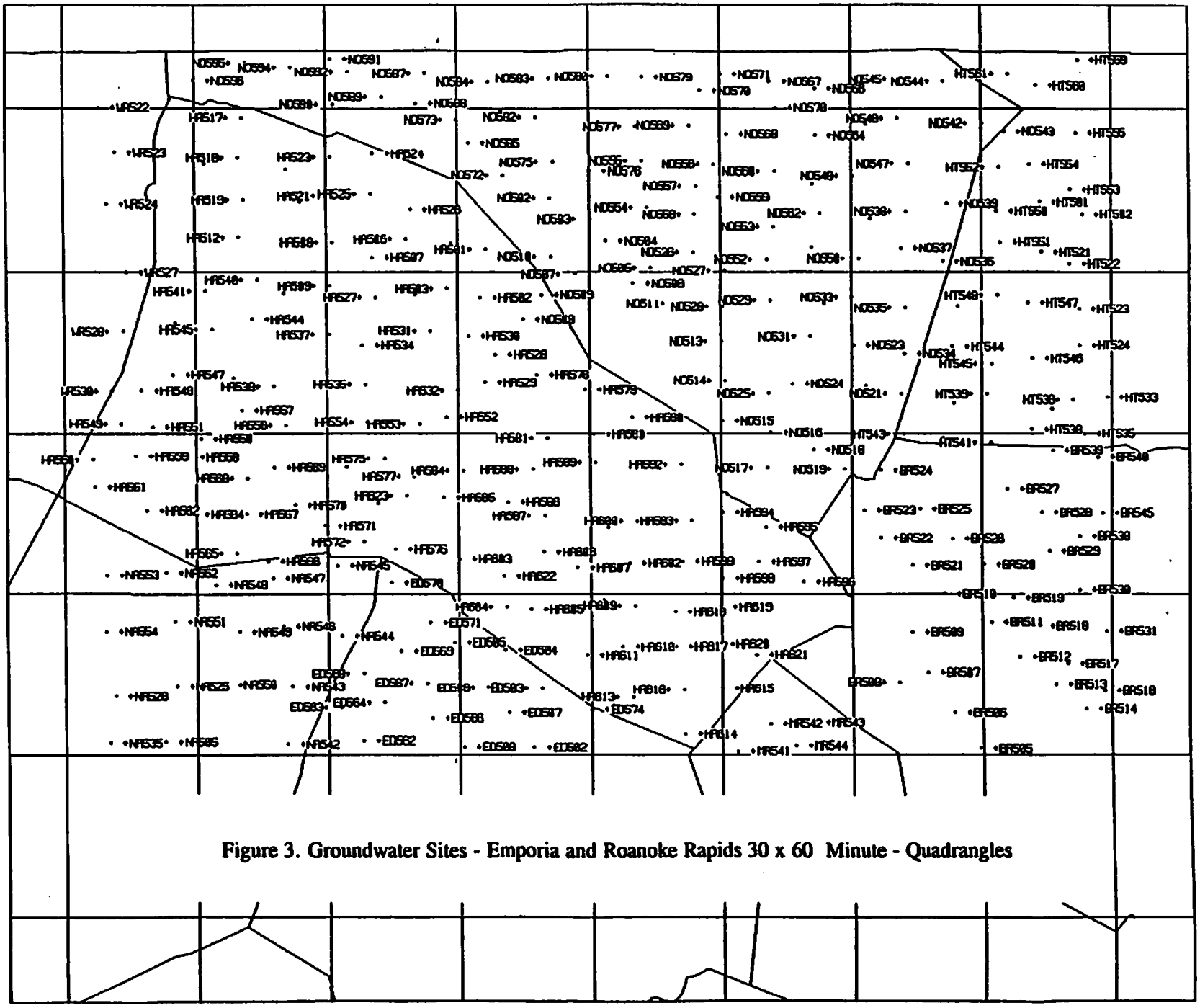

Figure 3. Groundwater Sites - Emporia and Roanoke Rapids 30 x 60 Minute - Quadrangles

EMPORIA 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 |
| 2962 | HT041 | 36.5067 | 77.0520 | 5.8 | 79 | 4.8 | 25 | 78 | 10100 | 110 | 23100 | 590 | 1100 | 3.7 | 17900 | 40 | 3.7 | -1.0 | 56 | 8 | 3.5 | 1.0 | |
| 2963 | HT042 | 36.5223 | 77.0679 | 5.5 | 122 | 2.1 | 6 | 26 | 12400 | 35 | 11600 | 200 | 1100 | 1.5 | 6800 | 20 | 2.6 | -1.0 | 22 | 4 | 1.0 | 0.3 | |
| 2964 | HT043 | 36.5339 | 77.0912 | 5.9 | 99 | 4.8 | 17 | 43 | 16300 | 94 | 16800 | 320 | 2100 | 3.3 | 7500 | 20 | 4.7 | N | 42 | 7 | 2.3 | 0.6 | |
| 2965 | HT044 | 36.5408 | 77.1262 | 5.2 | 57 | 5.2 | 34 | 62 | 11800 | 159 | 16700 | 450 | 1600 | 4.5 | 8700 | 30 | 5.8 | -1.5 | 72 | 13 | 4.7 | 0.6 | |
| 2966 | HT045 | 36.5338 | 77.0235 | 4.9 | 47 | 2.9 | 10 | 16 | 42600 | 42 | 27600 | 90 | 600 | 3.9 | 4500 | 50 | 2.6 | -1.0 | 22 | 3 | N | 0.2 | |
| 4378 | NO054 | 36.5155 | 77.3592 | 6.2 | 50 | 1.9 | 9 | 27 | 7700 | 31 | 8300 | 300 | 800 | 2.0 | 6800 | 20 | 2.2 | -1.0 | 17 | 4 | N | 0.3 | |
| 4379 | NO055 | 36.5212 | 77.3830 | 6.3 | 49 | 3.3 | 13 | 61 | 7200 | 52 | 7400 | 260 | 600 | 2.0 | 7700 | 20 | 3.0 | -1.2 | 27 | 5 | 1.4 | 0.4 | |
| 4380 | NO056 | 36.5067 | 77.4107 | 6.2 | 81 | 2.0 | 6 | 34 | 5700 | 38 | 8100 | 260 | 300 | 1.8 | 9100 | 20 | N | -1.0 | 15 | 3 | 2.3 | 0.3 | |
| 4381 | NO057 | 36.5071 | 77.4586 | 6.2 | 49 | 3.5 | 13 | 55 | 8500 | 66 | 12400 | 310 | 500 | 2.6 | 8400 | 20 | 4.4 | N | 30 | 6 | N | 0.4 | |
| 4383 | NO059 | 36.5034 | 77.5105 | 6.0 | 30 | 3.6 | 13 | 69 | 9500 | 40 | 12800 | 310 | 1000 | 2.1 | 9200 | 20 | 3.9 | N | 24 | 5 | 3.2 | 0.3 | |
| 4384 | NO060 | 36.5057 | 77.5488 | 5.9 | 32 | 3.3 | 11 | 42 | 12000 | 31 | 7000 | 360 | 2300 | 1.5 | 10400 | 30 | 3.3 | -1.1 | 24 | 4 | 1.9 | 0.4 | |
| 4385 | NO061 | 36.5091 | 77.5434 | 5.5 | 48 | 4.1 | N | 54 | 8800 | N | N | 400 | 700 | N | 10900 | 30 | 5.8 | N | N | 36 | N | N | |
| 4386 | NO062 | 36.5094 | 77.6326 | 6.1 | 50 | 2.5 | 6 | 31 | 21200 | 24 | 12200 | 570 | 2300 | 5.2 | 8000 | 40 | 4.2 | -1.0 | 15 | 3 | 3.2 | 0.4 | |
| 4387 | NO063 | 36.5203 | 77.6555 | 6.4 | 50 | 3.0 | 7 | 59 | 14600 | 18 | 10700 | 360 | 2200 | 4.2 | 10000 | 30 | 2.2 | -1.0 | 11 | 2 | 1.3 | 0.5 | |
| 4388 | NO064 | 36.5113 | 77.6858 | 5.4 | 51 | 3.8 | 6 | 108 | 9000 | 41 | 9100 | 190 | 300 | 1.9 | 9500 | 30 | 3.3 | N | 14 | 1 | 2.6 | 0.4 | |
| 4389 | NO065 | 36.5014 | 77.6857 | 5.7 | 30 | 7.2 | N | 238 | 8600 | N | N | 480 | 200 | 3.4 | 18900 | 40 | 3.0 | N | N | 7 | N | N | |

ROANOKE RAPIDS 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 721 | BR002 | 36.0334 | 77.0204 | 5.1 | 128 | N | 123 | 342 | 14100 | 505 | 44800 | 1430 | 1300 | 4.5 | 35300 | 70 | 6.4 | 2.0 | 264 | 28 | 16.1 | 2.6 | |
| 722 | BR003 | 36.0615 | 77.0833 | 5.2 | 70 | N | 10 | 45 | 15700 | 50 | 11600 | 400 | 1900 | 3.5 | 12000 | 30 | 0.4 | -1.0 | 26 | 4 | 2.6 | 0.4 | |
| 723 | BR004 | 36.1329 | 77.1876 | 3.9 | 50 | 2.7 | 8 | 40 | 8000 | 27 | 12100 | 240 | 200 | 1.9 | 9300 | 30 | 2.3 | -1.0 | 18 | 4 | N | 0.3 | |
| 724 | BR005 | 36.1877 | 77.2343 | 5.2 | 62 | 4.9 | 17 | 102 | 11000 | 96 | 45400 | 1410 | 400 | 4.6 | 36300 | 70 | 4.5 | -1.0 | 39 | 5 | N | 0.7 | |
| 726 | BR007 | 36.1095 | 77.0279 | 4.4 | 60 | 1.3 | 4 | 16 | 6000 | 27 | -5000 | 80 | 300 | 1.0 | 3700 | 10 | 1.3 | 1.3 | 11 | 1 | 1.8 | 0.2 | |
| 727 | BR008 | 36.2077 | 77.0263 | 4.4 | 41 | 1.2 | 3 | 12 | 12700 | 14 | 9000 | 120 | 1900 | 2.0 | 3800 | 10 | 1.4 | N | 10 | 2 | N | 0.3 | 0.083 |
| 749 | BR030 | 36.0595 | 77.1776 | 5.4 | 38 | 6.6 | 25 | 94 | 30000 | 145 | 33700 | 1290 | 7000 | 7.1 | 29600 | 90 | 0.4 | -1.0 | 62 | 7 | 7.3 | 1.0 | |
| 750 | BR031 | 36.0341 | 77.1481 | 5.5 | 40 | 5.2 | 17 | 68 | 25900 | 84 | 27400 | 760 | 4900 | 8.7 | 15000 | 60 | N | -1.0 | 39 | N | 5.1 | 0.7 | |
| 751 | BR032 | 36.0025 | 77.1254 | 5.7 | 92 | 2.6 | 8 | 22 | 38400 | 58 | 24800 | 360 | 4800 | 8.4 | 6900 | 50 | N | -1.0 | 22 | 4 | N | N | |
| 753 | BR034 | 36.1575 | 77.0748 | 5.2 | 38 | 5.0 | 27 | 74 | 15500 | 87 | 23300 | 590 | 2300 | 3.4 | 14600 | 40 | 0.3 | 1.6 | 59 | 4 | N | 0.6 | |
| 754 | BR035 | 36.1777 | 77.0919 | 4.9 | 39 | 3.2 | 8 | 13 | 33000 | 37 | 15000 | 120 | 1300 | 4.8 | 10400 | 80 | 5.1 | -1.0 | 20 | 2 | N | 0.5 | |
| 755 | BR036 | 36.1784 | 77.1817 | 5.7 | 51 | 2.3 | 6 | 33 | 12900 | 17 | 15500 | 290 | 800 | 1.3 | 8200 | 30 | 2.1 | -1.0 | N | 2 | N | 0.3 | |
| 756 | BR037 | 36.1696 | 77.0004 | 5.4 | 34 | 3.3 | 9 | 13 | 35600 | 56 | 15200 | 170 | 900 | 10.2 | 8200 | 60 | 0.2 | 0.8 | 29 | 6 | N | 0.4 | |
| 2045 | ED004 | 36.0332 | 77.7514 | 6.6 | 110 | 5.4 | 12 | 13 | 37600 | 56 | 21200 | 160 | 600 | 6.9 | 6700 | 50 | 3.9 | -1.0 | 30 | 5 | 5.7 | 0.6 | |
| 2046 | ED005 | 36.0593 | 77.6822 | 7.2 | 70 | 5.5 | 15 | 7 | 77000 | 119 | 31500 | 460 | 3400 | 11.5 | 6900 | 80 | 7.4 | 5.3 | 41 | 7 | 3.1 | 0.7 | |
| 2047 | ED006 | 36.0949 | 77.6774 | 6.8 | 90 | 7.0 | 31 | 60 | 7400 | 98 | 9800 | 370 | 400 | 1.9 | 8000 | 20 | 7.2 | -1.0 | 58 | 8 | 9.6 | 0.9 | |
| 2048 | ED007 | 36.1307 | 77.6886 | 6.8 | 75 | 1.8 | 6 | 19 | 9000 | 11 | 8800 | 190 | 500 | 1.5 | 4700 | 20 | 2.6 | N | 13 | 2 | N | 0.3 | |
| 2049 | ED008 | 36.0939 | 77.6248 | 5.7 | 120 | 2.3 | 13 | 30 | 8900 | 39 | 9000 | 140 | 600 | 1.2 | 4800 | 20 | 2.9 | -1.0 | 20 | 3 | 1.7 | 0.4 | |
| 2050 | ED009 | 36.0536 | 77.5779 | 5.5 | 40 | 2.3 | 11 | 35 | 6700 | 45 | 9200 | 230 | 400 | 2.1 | 7100 | 20 | 1.4 | -1.0 | 24 | 3 | 2.2 | 0.4 | |
| 2051 | ED010 | 36.0265 | 77.6063 | 5.7 | 45 | 2.2 | 8 | 19 | 16200 | 26 | 15100 | 200 | 200 | 2.3 | 6000 | 30 | 4.9 | -1.0 | 14 | 2 | N | 0.4 | |
| 2052 | ED011 | 36.0159 | 77.5723 | 5.7 | 45 | 5.4 | 29 | 93 | 5300 | 116 | 18700 | 500 | 200 | 5.1 | 15500 | 40 | 5.9 | 1.3 | 51 | 8 | 10.5 | 0.9 | |
| 2053 | ED012 | 36.0071 | 77.5259 | 6.7 | 50 | 2.7 | 8 | 25 | 19600 | 18 | 14000 | 370 | 2500 | 3.7 | 8000 | 30 | 3.6 | -1.1 | 18 | 3 | 2.2 | 0.4 | |
| 2054 | ED013 | 36.0143 | 77.4599 | 5.9 | 50 | 2.4 | 6 | 28 | 9600 | 35 | 14100 | 160 | 400 | 3.0 | 5900 | 20 | 2.3 | N | 17 | 3 | 2.6 | 0.3 | |
| 2061 | ED020 | 36.0005 | 77.6444 | 6.8 | 60 | 4.1 | 15 | 14 | 47100 | 88 | 20900 | 540 | 4700 | 6.4 | 8000 | 50 | N | -1.0 | 34 | 5 | 3.0 | 0.9 | |
| 2613 | HA001 | 36.0423 | 77.4033 | 7.7 | 290 | 6.1 | 15 | 110 | 10500 | 108 | 25000 | 860 | 400 | 5.6 | 25400 | 60 | 4.1 | N | 34 | 8 | 4.7 | 0.7 | |
| 2614 | HA002 | 36.0503 | 77.3855 | N | N | 3.1 | 6 | 42 | 8200 | -20 | 9400 | 240 | 400 | 1.8 | 7900 | 20 | 2.5 | N | 16 | 3 | N | 0.5 | |
| 2615 | HA003 | 36.1242 | 77.3517 | 7.0 | 90 | 7.5 | 26 | 112 | 13100 | 158 | 25000 | 910 | 1000 | 4.6 | 23800 | 60 | 5.1 | -1.0 | 61 | 8 | N | 1.1 | |
| 2616 | HA004 | 36.1467 | 77.3485 | 7.1 | 75 | 4.2 | 15 | 46 | 20000 | 48 | 14900 | 390 | 1000 | 3.6 | 11700 | 40 | 7.3 | 2.0 | 26 | 4 | N | 0.7 | |
| 2617 | HA005 | 36.1915 | 77.3872 | 6.9 | 40 | 2.4 | 4 | 28 | N | 49 | 9700 | N | N | 2.4 | N | N | N | -1.0 | 16 | 2 | 3.0 | 0.3 | |
| 2618 | HA006 | 36.2184 | 77.3938 | 6.7 | 98 | 3.1 | 8 | 5 | N | 70 | 53900 | N | N | 10.5 | N | N | N | N | 34 | 4 | 2.5 | 0.4 | |
| 2619 | HA007 | 36.1956 | 77.4567 | 6.2 | 68 | 2.3 | 4 | 35 | 6000 | N | 5800 | 220 | 200 | 2.0 | 8000 | 20 | 4.6 | N | 8 | 3 | N | -0.7 | |
| 2620 | HA008 | 36.1521 | 77.4850 | N | N | 4.3 | 13 | 84 | N | 55 | 8200 | N | N | 2.1 | N | N | N | -1.0 | 24 | 4 | N | -0.2 | |
| 2621 | HA009 | 36.0899 | 77.4774 | N | N | 1.9 | 4 | 36 | 8700 | 11 | 12800 | 680 | 600 | 2.6 | 18900 | 40 | N | N | 11 | 4 | N | 0.3 | |
| 2622 | HA010 | 36.1925 | 77.6833 | N | N | 4.3 | 9 | 50 | N | 55 | 5900 | N | N | 2.7 | N | N | N | -1.1 | 26 | 2 | 4.6 | 0.3 | |
| 2623 | HA011 | 36.2098 | 77.7275 | N | N | 25.9 | 55 | 602 | 12200 | 167 | 24700 | 1210 | 400 | 7.9 | 54000 | 110 | 16.6 | -1.9 | 76 | 9 | 18.9 | 4.1 | |
| 2624 | HA012 | 36.2279 | 77.8070 | 7.3 | 70 | 33.1 | 80 | 829 | N | 165 | 65300 | N | N | 14.0 | N | N | N | 4.9 | N | 8 | 20.7 | 4.4 | |
| 2625 | HA013 | 36.2517 | 77.9226 | 7.4 | 85 | 3.3 | 5 | 46 | N | 20 | 20200 | N | N | 7.8 | N | N | N | -1.0 | 11 | 3 | 2.4 | 0.5 | |
| 2626 | HA014 | 36.2624 | 77.9374 | 7.4 | 92 | 2.2 | 7 | 7 | 43300 | 33 | 32500 | 840 | 9200 | 10.7 | 6200 | 80 | N | 1.0 | 14 | 2 | 3.9 | N | |

ROANOKE RAPIDS 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2627 | HA015 | 36.2948 | 77.9217 | 7.5 | 83 | 1.9 | 19 | 10 | N | 51 | -5000 | N | N | 1.6 | N | N | N | N | 34 | 3 | N | 0.3 | |
| 2628 | HA016 | 36.3270 | 77.8703 | 7.5 | 80 | 33.6 | 64 | 824 | 36600 | 174 | 27500 | 1350 | 5500 | 11.7 | 11900 | 60 | 15.6 | N | 91 | 9 | 25.0 | 5.0 | |
| 2629 | HA017 | 36.3311 | 77.8481 | 7.4 | 55 | 18.4 | 69 | 290 | N | 59 | 14400 | N | N | 4.9 | N | N | N | 1.2 | N | 3 | 9.6 | 2.1 | |
| 2630 | HA018 | 36.3694 | 77.8349 | 7.6 | 71 | 16.0 | 46 | 297 | 12600 | 39 | 23200 | 630 | 500 | 3.9 | 12900 | 60 | 7.6 | -1.0 | 25 | 5 | 10.2 | 1.5 | |
| 2631 | HA019 | 36.4209 | 77.8314 | 7.7 | 57 | 17.1 | 100 | 111 | N | 285 | 9700 | N | N | 4.0 | N | N | N | N | 154 | N | 14.1 | 1.8 | |
| 2632 | HA020 | 36.4387 | 77.8390 | 7.3 | 56 | 25.8 | 147 | 49 | 29500 | 578 | 21200 | 1520 | 2700 | 7.9 | 13200 | 40 | 41.1 | 3.9 | 298 | 31 | 19.8 | 2.1 | |
| 2633 | HA021 | 36.4436 | 77.7897 | 7.5 | 61 | 23.2 | 92 | 299 | 20100 | 307 | 29500 | 1840 | 1700 | 7.3 | 37100 | 70 | 7.9 | 5.2 | 160 | 18 | 12.4 | 3.0 | |
| 2634 | HA022 | 36.4033 | 77.7200 | 7.4 | 81 | 24.7 | 56 | 621 | 16700 | 208 | 45800 | 2690 | 600 | 11.2 | 56100 | 150 | 9.8 | 2.5 | 98 | 12 | 20.5 | 3.5 | |
| 2635 | HA023 | 36.3635 | 77.6578 | 7.4 | 70 | 14.1 | 37 | 318 | N | 122 | 27800 | N | N | 9.7 | N | N | N | N | 63 | 9 | 12.2 | 1.9 | |
| 2636 | HA024 | 36.3387 | 77.6029 | 7.5 | 80 | 19.8 | N | 385 | 19000 | N | N | 3760 | 1100 | 7.9 | N | 220 | 8.8 | N | N | 41 | N | N | |
| 2637 | HA025 | 36.1842 | 77.7224 | 6.3 | 70 | 6.9 | 20 | 132 | 11000 | 59 | 8000 | 360 | 600 | 4.0 | 15000 | 50 | 3.3 | 4.0 | 36 | 11 | 4.3 | 0.7 | |
| 2638 | HA026 | 36.1762 | 77.7333 | N | N | 13.2 | 37 | 276 | 14100 | 154 | 27900 | 1420 | 400 | 4.5 | 46900 | 110 | 8.8 | 1.7 | 71 | 9 | 10.8 | 1.9 | |
| 2639 | HA027 | 36.1780 | 77.7828 | 7.3 | 75 | 13.5 | 27 | 385 | 21700 | 128 | 32100 | 1520 | 2300 | 12.2 | 39500 | 110 | 6.0 | N | 55 | 8 | 8.0 | 2.2 | |
| 2640 | HA028 | 36.1816 | 77.8152 | 7.4 | 89 | 17.2 | 36 | 397 | 21800 | 176 | 52500 | 4010 | 1100 | 13.5 | N | 260 | 4.4 | 1.2 | 61 | 6 | 11.4 | 2.5 | |
| 2641 | HA029 | 36.1551 | 77.8523 | 7.5 | 111 | 8.2 | N | 159 | 24900 | N | N | 2090 | 2200 | 9.4 | 32700 | 120 | 2.4 | N | N | N | N | N | |
| 2642 | HA030 | 36.1799 | 77.8987 | 7.3 | 108 | 2.8 | 8 | 40 | 29300 | 25 | 17700 | 300 | 6900 | 6.5 | 11900 | 60 | N | -1.1 | 17 | 2 | 3.0 | 0.4 | |
| 2643 | HA031 | 36.1969 | 77.9333 | 7.2 | 70 | 3.4 | 9 | 62 | 34900 | 23 | 34400 | N | N | 13.3 | N | N | N | -1.1 | 15 | 3 | 4.5 | 0.7 | |
| 2644 | HA032 | 36.2097 | 77.9222 | 7.3 | 135 | 3.5 | 10 | 76 | 30300 | -24 | 13200 | 500 | 9100 | 8.4 | 13000 | 120 | 3.6 | -2.0 | 11 | 2 | 4.2 | 0.6 | |
| 2646 | HA034 | 36.2324 | 77.9708 | 7.2 | 155 | 1.6 | 3 | 11 | N | -20 | 10600 | N | N | 2.1 | N | N | N | -1.0 | 4 | 1 | N | 0.1 | |
| 2647 | HA035 | 36.2326 | 77.9510 | 7.4 | 100 | 2.0 | N | 17 | 23300 | N | N | 450 | 3300 | 5.7 | 7500 | 50 | 3.2 | N | N | N | N | N | |
| 2648 | HA036 | 36.2552 | 77.8911 | 7.5 | 67 | 8.1 | 70 | 30 | N | 240 | 15400 | N | N | 5.2 | N | N | N | -1.0 | 123 | N | 7.2 | 1.5 | |
| 2649 | HA037 | 36.2778 | 77.8802 | 7.7 | 60 | 11.7 | 17 | 245 | 36600 | 88 | 21000 | 1030 | 3000 | 6.7 | 8300 | 40 | 5.3 | -1.8 | 46 | 5 | 9.8 | 1.6 | |
| 2650 | HA038 | 36.2711 | 77.8250 | 7.5 | 60 | 40.2 | 83 | 953 | N | 172 | 49600 | N | N | 11.2 | N | N | N | N | N | N | 32.6 | 4.9 | |
| 2651 | HA039 | 36.2704 | 77.7867 | 7.1 | 121 | 12.7 | 38 | 277 | 16800 | 136 | 42500 | 1680 | 1700 | 11.8 | 68300 | 170 | 13.5 | 1.1 | 64 | 9 | 11.1 | 1.7 | |
| 2652 | HA040 | 36.2569 | 77.7593 | 7.2 | 110 | 8.1 | 15 | 202 | N | 49 | 30000 | N | N | 10.3 | N | N | N | N | 24 | 3 | 6.8 | 1.5 | |
| 2653 | HA041 | 36.2303 | 77.7688 | 7.3 | 118 | 29.3 | N | 828 | N | N | N | N | N | N | N | N | N | N | N | N | N | N | |
| 2654 | HA042 | 36.2194 | 77.7298 | N | N | 32.4 | 51 | 893 | 12900 | 181 | 44200 | 3060 | 500 | 12.6 | 92900 | 130 | 8.7 | N | 83 | 11 | 25.6 | 5.3 | |
| 2655 | HA043 | 36.2410 | 77.7213 | 6.9 | 141 | 8.0 | 14 | 190 | 18700 | 34 | 28600 | N | N | 8.4 | N | N | N | -1.1 | 24 | 3 | N | 1.1 | |
| 2656 | HA044 | 36.2753 | 77.7046 | 7.6 | 71 | 31.0 | 94 | 769 | 16400 | 328 | 67700 | 3050 | 1300 | 16.0 | 91400 | 200 | 11.6 | N | 156 | 17 | 26.3 | 3.7 | |
| 2657 | HA045 | 36.2834 | 77.6954 | N | N | 31.0 | 60 | 743 | 20700 | 187 | 77000 | 6040 | 500 | 14.0 | N | 340 | 4.3 | N | 101 | 17 | 16.8 | 3.4 | |
| 2658 | HA046 | 36.3131 | 77.6987 | N | N | 5.5 | 21 | 109 | 17300 | 46 | 33900 | 1650 | 2000 | 10.0 | 61200 | 140 | 6.6 | 3.0 | 28 | 3 | N | 0.8 | |
| 2659 | HA047 | 36.3166 | 77.7196 | 7.4 | 71 | 21.7 | 74 | 546 | 12300 | 306 | 51400 | 2230 | 400 | 8.8 | 62200 | 130 | 3.1 | -1.0 | 139 | 19 | 17.4 | 3.2 | |
| 2660 | HA048 | 36.3066 | 77.7201 | 7.4 | 59 | 26.0 | 60 | 626 | N | 269 | 44300 | N | N | 9.1 | N | N | 5.4 | N | 130 | 19 | 18.1 | 3.1 | |
| 2661 | HA049 | 36.2784 | 77.7446 | 7.4 | 71 | 12.1 | 28 | 291 | N | 95 | 63800 | N | N | 12.1 | N | N | N | 1.4 | N | 7 | 10.6 | 2.0 | |
| 2662 | HA050 | 36.2915 | 77.8152 | 7.6 | 60 | 10.1 | 26 | 180 | N | 63 | 24500 | N | N | 7.4 | N | N | N | -1.0 | 29 | N | 6.9 | 1.1 | |
| 2663 | HA051 | 36.3316 | 77.7577 | 7.6 | 80 | 19.2 | 48 | 512 | 11600 | 165 | 38800 | 1680 | 400 | 6.8 | 59400 | 130 | 15.0 | N | 96 | 10 | 12.5 | 2.8 | |
| 2664 | HA052 | 36.3404 | 77.7543 | 7.8 | 80 | 17.4 | 45 | 409 | N | 198 | 38000 | N | N | 10.2 | N | N | N | N | 78 | N | 13.1 | 2.3 | |
| 2665 | HA053 | 36.3484 | 77.7527 | 7.3 | 79 | 11.4 | N | 266 | 11700 | N | N | 1340 | 500 | 6.0 | 37900 | 90 | 5.5 | N | 349 | 13 | N | N | |

ROANOKE RAPIDS 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2666 | HA054 | 36.3454 | 77.7065 | 7.1 | 83 | 29.1 | 68 | 698 | N | 258 | 57100 | N | N | 10.1 | N | N | N | N | 146 | N | 21.8 | 3.4 | |
| 2667 | HA055 | 36.3761 | 77.7344 | 7.2 | 78 | 8.6 | 17 | 240 | 15200 | 60 | 24300 | 1550 | 1900 | 8.4 | 39000 | 100 | 2.7 | N | 29 | 3 | 11.7 | 1.3 | |
| 2668 | HA056 | 36.3827 | 77.7588 | 7.3 | 99 | 13.1 | 16 | 365 | N | 67 | 34200 | N | N | 8.4 | N | N | N | N | 24 | 3 | 10.6 | 2.0 | |
| 2669 | HA057 | 36.3780 | 77.8518 | 7.7 | 50 | 2.7 | 15 | 19 | 26000 | 73 | 8700 | 350 | 3400 | 3.4 | 4100 | 20 | N | 4.1 | 24 | 6 | N | -0.4 | |
| 2670 | HA058 | 36.3794 | 77.8717 | 7.4 | 41 | 11.8 | 67 | 143 | N | 187 | 16400 | N | N | 5.2 | N | N | N | 1.7 | 92 | 9 | 6.4 | 1.3 | |
| 2671 | HA059 | 36.3737 | 77.8945 | 7.2 | 110 | 5.2 | 23 | 69 | 28500 | 86 | 8800 | 550 | 4000 | 4.6 | 5400 | 20 | 3.9 | -1.6 | 46 | 6 | 3.2 | 0.8 | |
| 2672 | HA060 | 36.3305 | 77.9259 | 7.6 | 63 | 9.8 | 58 | 55 | N | 215 | 23400 | N | N | 6.6 | N | N | N | -1.1 | 100 | N | N | 0.9 | |
| 2673 | HA061 | 36.3331 | 77.9133 | 7.8 | 51 | 7.3 | 132 | 16 | 45000 | 440 | 8100 | 1450 | 13000 | 3.6 | 10600 | 20 | 19.7 | N | 243 | 17 | 5.7 | 0.6 | |
| 2674 | HA062 | 36.4383 | 77.8834 | 7.2 | 68 | 3.5 | 21 | 22 | 25200 | 31 | 7500 | 290 | 3600 | 2.0 | 2900 | 10 | 3.8 | -1.3 | 27 | 3 | N | 0.4 | |
| 2675 | HA063 | 36.4727 | 77.9037 | 7.3 | 45 | 9.1 | N | 116 | 27800 | N | N | 350 | 3700 | 5.2 | 3400 | 40 | 1.5 | N | N | N | N | N | |
| 2676 | HA064 | 36.4698 | 77.8152 | 7.3 | 80 | 4.7 | N | 30 | 28800 | N | N | 600 | 4700 | 5.6 | 4800 | 50 | 5.1 | N | N | 6 | N | N | |
| 2677 | HA065 | 36.4164 | 77.7695 | 7.2 | 60 | 10.3 | 12 | 244 | 16200 | 52 | 22500 | 730 | 300 | 4.4 | 29900 | 60 | 3.2 | -1.0 | 15 | 4 | 5.5 | 1.3 | |
| 2678 | HA066 | 36.4189 | 77.7360 | 7.3 | 60 | 7.6 | 13 | 177 | 15200 | 57 | 20000 | 500 | 300 | 5.0 | 25600 | 60 | N | N | 28 | 5 | 5.5 | 0.8 | |
| 2679 | HA067 | 36.4259 | 77.7329 | 7.2 | 84 | 4.3 | 7 | 94 | N | 18 | 14100 | N | N | 5.0 | N | N | N | N | 9 | 1 | N | 0.4 | |
| 2680 | HA068 | 36.4286 | 77.7146 | 6.8 | 61 | 11.0 | 36 | 224 | 17300 | 115 | 36000 | 2270 | N | 8.1 | 81400 | 190 | 6.4 | -1.3 | 66 | 7 | 7.7 | 1.2 | |
| 2681 | HA069 | 36.4580 | 77.7022 | 6.9 | 60 | 13.6 | 33 | 326 | 16700 | 90 | 20700 | 1020 | N | 7.4 | 39800 | 90 | 5.5 | 1.3 | 60 | 5 | 9.0 | 1.1 | |
| 2682 | HA070 | 36.4323 | 77.6541 | 7.4 | 100 | 10.0 | 26 | 195 | 16900 | 101 | 31100 | 1550 | 1200 | 5.5 | 50000 | 110 | 7.8 | -1.3 | 57 | 12 | 6.1 | 1.2 | 0.042 |
| 2683 | HA071 | 36.3992 | 77.6662 | N | N | 18.0 | 40 | 371 | 15000 | 178 | 26600 | 940 | 200 | 8.3 | 35900 | 80 | 11.6 | -1.9 | 98 | 18 | 13.4 | 2.2 | |
| 2684 | HA072 | 36.3471 | 77.6793 | 6.9 | 65 | 8.3 | 17 | 166 | N | 84 | 23400 | N | N | 7.1 | N | N | N | N | 34 | 5 | 7.1 | 0.9 | |
| 2685 | HA073 | 36.3020 | 77.6684 | 6.5 | 45 | 8.6 | 26 | 171 | N | 50 | 13100 | N | N | 2.0 | N | N | N | N | 44 | N | N | 1.4 | |
| 2686 | HA074 | 36.3066 | 77.6360 | N | N | 23.3 | 56 | 469 | 11200 | 219 | 36800 | 1590 | 200 | 5.8 | 49100 | 90 | 11.1 | N | 124 | 11 | 16.3 | 2.7 | |
| 2687 | HA075 | 36.3217 | 77.5920 | 6.8 | 80 | 22.9 | 67 | 467 | N | 270 | 76400 | N | N | 13.4 | N | N | N | 2.4 | 133 | N | 14.6 | 2.6 | |
| 2688 | HA076 | 36.2492 | 77.5543 | 6.6 | 71 | 4.3 | 9 | 32 | 40000 | 47 | 16500 | 410 | 800 | 5.3 | 10100 | 60 | 3.6 | N | 42 | 7 | N | 0.4 | |
| 2689 | HA077 | 36.4106 | 77.6199 | 6.7 | 90 | 7.7 | 23 | 120 | N | 122 | 23700 | N | N | 3.4 | N | N | N | -1.3 | 56 | 7 | 7.6 | 0.9 | |
| 2690 | HA078 | 36.4200 | 77.5876 | 7.0 | 121 | 3.8 | 9 | 33 | 48800 | 74 | 28000 | 800 | 7000 | 8.9 | 10500 | 90 | N | -1.9 | 27 | 3 | 2.2 | 0.3 | |
| 2691 | HA079 | 36.3748 | 77.5887 | 7.1 | 71 | 6.5 | 18 | 116 | N | 96 | 30000 | N | N | 3.8 | N | N | N | N | N | N | N | 1.0 | |
| 2692 | HA080 | 36.2758 | 77.4759 | 6.5 | 71 | 3.6 | 6 | 3 | 75600 | -28 | 59100 | 2270 | 900 | 9.6 | 5300 | 110 | 5.6 | N | 43 | 17 | N | -0.2 | |
| 2693 | HA081 | 36.2440 | 77.5449 | 6.8 | 71 | 4.6 | 13 | 60 | N | 61 | 17200 | N | N | 3.2 | N | N | N | -1.0 | 31 | 4 | 2.4 | 0.2 | |
| 2694 | HA082 | 36.2278 | 77.5447 | 6.7 | 78 | 3.6 | 5 | 49 | 10400 | 43 | 9900 | 370 | 600 | 2.4 | 10100 | 30 | N | -1.0 | 18 | 4 | N | 0.2 | |
| 2695 | HA083 | 36.2181 | 77.5676 | 6.6 | 83 | 4.3 | 8 | 14 | N | 69 | 12700 | N | N | 5.4 | N | N | N | -1.0 | 28 | N | 2.0 | 0.7 | |
| 2696 | HA084 | 36.2204 | 77.5807 | 6.1 | 59 | 4.3 | 6 | 67 | 8300 | 26 | 15100 | 530 | 400 | 2.6 | 14400 | 30 | 5.8 | N | 25 | 5 | 3.4 | 0.6 | |
| 2697 | HA085 | 36.2073 | 77.6148 | 6.5 | 89 | 12.1 | 27 | 220 | N | 150 | 27900 | N | N | 4.1 | N | N | N | -1.6 | 72 | 10 | 5.4 | 1.1 | |
| 2698 | HA086 | 36.1743 | 77.6151 | 6.3 | 98 | 11.8 | 49 | 155 | 7000 | 155 | 17100 | 510 | 300 | 3.6 | 13500 | 30 | 9.7 | N | 99 | 19 | 9.3 | 2.0 | |
| 2699 | HA087 | 36.1431 | 77.6148 | 6.2 | 71 | 8.4 | 34 | 94 | 29700 | 228 | 9400 | 1060 | 2500 | 9.4 | 14600 | 70 | 13.6 | -1.2 | 64 | 9 | 7.3 | 1.3 | |
| 2700 | HA088 | 36.2248 | 77.4282 | 6.6 | 106 | 12.7 | 49 | 182 | 22000 | 205 | 49700 | 2070 | 3900 | 9.2 | 42300 | 100 | 7.0 | 4.1 | 103 | 9 | 13.4 | 1.0 | |
| 2701 | HA089 | 36.1856 | 77.4731 | 6.0 | 129 | 2.9 | 6 | 37 | 7100 | -20 | 7600 | 150 | 200 | 1.8 | N | 20 | N | 0.9 | 14 | 2 | N | 0.3 | |
| 2922 | HT001 | 36.2797 | 77.0018 | 5.8 | 48 | 8.7 | 40 | 149 | 21400 | 201 | 43100 | 1410 | 3500 | 8.1 | 29100 | 80 | 0.2 | -1.0 | 164 | 18 | N | 1.0 | |
| 2923 | HT002 | 36.2536 | 77.0018 | 6.1 | 99 | 3.8 | 6 | 11 | 31700 | 26 | 11500 | 50 | 300 | 6.6 | 3600 | 40 | 0.9 | N | 13 | 6 | N | 0.2 | |

ROANOKE RAPIDS 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2924 | HT003 | 36.2748 | 77.0480 | 4.1 | 41 | 3.0 | 9 | 17 | 25200 | 38 | 10800 | 100 | 1300 | 5.4 | 4400 | 40 | 1.5 | -1.0 | 13 | 5 | N | 0.3 | |
| 2925 | HT004 | 36.2583 | 77.0710 | 4.5 | 35 | 2.9 | 7 | 22 | 17900 | 26 | 9200 | 120 | 1400 | 5.4 | 4300 | 30 | 2.2 | 2.1 | 18 | 6 | N | 0.3 | |
| 2926 | HT005 | 36.2765 | 77.1059 | 5.7 | 43 | 2.3 | 10 | 28 | 16900 | 47 | 17100 | 260 | 2800 | 4.8 | 6500 | 30 | N | -1.0 | N | 5 | N | 0.4 | |
| 2927 | HT006 | 36.3236 | 77.0885 | 6.1 | 52 | 5.1 | 9 | 60 | 21800 | 44 | 11300 | 440 | 2700 | 6.1 | 8900 | 30 | 3.2 | -1.0 | 20 | 8 | N | 0.3 | |
| 2928 | HT007 | 36.3294 | 77.0362 | 5.2 | 34 | 1.9 | 4 | 23 | 13900 | 19 | -5000 | 130 | 1200 | 2.3 | 2700 | 10 | 0.3 | -1.0 | N | 5 | N | 0.2 | |
| 2929 | HT008 | 36.3600 | 77.0140 | 5.5 | 33 | 3.7 | 14 | 17 | 57500 | 62 | 23900 | 190 | 2400 | 7.6 | 8300 | 100 | 0.3 | -1.0 | N | 8 | N | N | |
| 2942 | HT021 | 36.3866 | 77.0552 | 5.8 | 77 | 3.2 | 7 | 57 | 6500 | 17 | 14500 | 410 | 300 | 4.1 | 10500 | 30 | 3.2 | -1.0 | 14 | 5 | N | 0.3 | |
| 2943 | HT022 | 36.3990 | 77.0701 | 4.8 | 110 | 1.1 | 3 | 20 | 2800 | -20 | -5200 | 180 | 100 | 1.0 | 4900 | 10 | 0.9 | -1.0 | 5 | 1 | N | N | |
| 2944 | HT023 | 36.4155 | 77.0521 | 5.6 | 69 | 3.7 | 12 | 59 | 8600 | 56 | 13000 | 410 | 600 | 2.7 | 10600 | 30 | 2.0 | -1.0 | N | 10 | 4.5 | 0.5 | |
| 2947 | HT026 | 36.3024 | 77.1382 | 6.0 | 32 | 0.1 | N | 1 | N | N | N | N | N | N | N | N | N | N | N | N | N | N | |
| 2948 | HT027 | 36.2800 | 77.1534 | 5.2 | 39 | 3.0 | 8 | 19 | 53400 | 60 | 19500 | 350 | 2900 | 7.1 | 8800 | 80 | 6.0 | 1.0 | 27 | 1 | 1.5 | 0.5 | |
| 2949 | HT028 | 36.2650 | 77.1685 | 5.0 | 40 | 8.9 | 33 | 154 | 19600 | 147 | 40500 | 1090 | 1700 | 7.1 | 27000 | 60 | 5.5 | -1.0 | 78 | 12 | 8.2 | 1.5 | |
| 2950 | HT029 | 36.2504 | 77.1785 | 4.7 | 36 | 4.2 | 10 | 44 | 32300 | 48 | 18200 | 250 | 1400 | 5.8 | 8900 | 50 | 2.1 | -1.0 | 28 | 4 | 2.2 | 0.4 | |
| 2951 | HT030 | 36.3278 | 77.1561 | 6.0 | 59 | 5.6 | 21 | 59 | 42700 | 111 | 21700 | 630 | 5500 | 7.4 | 11200 | 60 | 7.4 | -1.0 | 53 | 8 | 5.7 | 0.9 | |
| 2952 | HT031 | 36.3501 | 77.0946 | 5.6 | 43 | 21.5 | 82 | 336 | 20200 | 450 | 65500 | 2600 | 3400 | 10.9 | 55200 | 130 | 1.0 | 3.7 | 227 | 28 | 18.6 | 3.3 | |
| 2953 | HT032 | 36.3693 | 77.0910 | 5.4 | 38 | 2.4 | 10 | 26 | 20200 | 56 | 18900 | 220 | 2000 | 2.4 | 5900 | 30 | 2.1 | 0.7 | 26 | 4 | 2.1 | 0.5 | |
| 2954 | HT033 | 36.3900 | 77.1335 | 5.5 | 53 | 4.0 | 13 | 12 | 101300 | 41 | 28400 | 140 | 700 | 10.7 | 8800 | 130 | 3.6 | -1.0 | 35 | 5 | 1.8 | 0.4 | |
| 2955 | HT034 | 36.4098 | 77.1382 | 5.5 | 53 | 5.1 | 21 | 95 | 10000 | 111 | 22600 | 540 | 400 | 2.1 | 16900 | 40 | 2.8 | -1.0 | 50 | 9 | 4.7 | 0.8 | |
| 2956 | HT035 | 36.4359 | 77.1308 | 6.0 | 67 | 10.7 | 47 | 174 | 13700 | 198 | 31500 | 960 | 800 | 4.2 | 26800 | 60 | 7.5 | -1.4 | 116 | 17 | 7.0 | 1.1 | |
| 2957 | HT036 | 36.4611 | 77.1147 | 5.9 | 68 | 2.5 | 10 | 40 | 11700 | 52 | 13300 | 380 | 1100 | 2.1 | 11600 | 30 | 3.8 | -1.0 | 23 | 3 | 2.9 | 0.4 | |
| 2958 | HT037 | 36.4417 | 77.0444 | 5.7 | 52 | 3.2 | 10 | 13 | 35500 | 75 | 26600 | 140 | 900 | 4.6 | 7100 | 60 | 3.7 | -1.7 | 32 | 5 | 2.2 | 0.4 | |
| 2959 | HT038 | 36.4848 | 77.0529 | 5.9 | 91 | 3.5 | 8 | 9 | 46300 | 49 | 21300 | 200 | 2700 | 5.2 | 5300 | 50 | 4.4 | -1.0 | 24 | 3 | N | 0.3 | 0.013 |
| 2960 | HT039 | 36.4809 | 77.0355 | 5.7 | 63 | 4.2 | 28 | 54 | 17400 | 141 | 15600 | 590 | 2700 | 3.9 | 13800 | 40 | 10.2 | -1.1 | 55 | 9 | 4.0 | 0.7 | 0.028 |
| 4140 | MR013 | 36.0132 | 77.2999 | 5.6 | 58 | 2.6 | 8 | 19 | 38900 | 36 | 12800 | 170 | 1000 | 3.5 | 9100 | 60 | N | -1.0 | 23 | 2 | 2.0 | 0.2 | |
| 4141 | MR014 | 36.0441 | 77.3326 | 4.9 | 50 | 1.7 | N | 19 | 10900 | -20 | 10700 | 140 | 400 | 1.7 | 5900 | 20 | 1.9 | -1.0 | 11 | 2 | N | 0.2 | |
| 4142 | MR015 | 36.0006 | 77.3433 | 5.7 | 63 | 3.1 | 10 | 33 | 18400 | 55 | 17900 | 230 | 1000 | 3.1 | 9200 | 40 | 8.5 | -1.0 | 23 | N | 3.8 | 0.5 | |
| 4268 | NA058 | 36.0482 | 77.9994 | 7.0 | 70 | 11.8 | 15 | 333 | 18000 | 41 | 22100 | 1080 | 2700 | 9.3 | 32800 | 70 | 6.3 | -1.1 | 21 | 3 | 8.6 | 1.7 | |
| 4269 | NA059 | 36.0619 | 77.9865 | 7.2 | 75 | 27.2 | 44 | 840 | 15400 | 99 | 63800 | 2390 | 700 | 14.9 | 73700 | 140 | 12.6 | -1.1 | 48 | 7 | 17.4 | 3.9 | |
| 4270 | NA060 | 36.1085 | 77.9886 | 7.4 | 60 | 6.2 | 37 | 63 | 12600 | 87 | 7300 | 250 | 2400 | 2.5 | 5600 | 20 | 4.2 | -1.4 | 51 | 6 | 4.8 | 1.2 | |
| 4271 | NA061 | 36.1277 | 77.9566 | 7.4 | 60 | 2.7 | 13 | 37 | 10800 | 25 | 13600 | 930 | 900 | 2.4 | 6900 | 30 | N | -1.0 | 17 | 3 | 4.9 | 0.5 | |
| 4272 | NA062 | 36.1452 | 77.9827 | 6.8 | 61 | 7.5 | 8 | 184 | 13300 | -20 | 10600 | 280 | 800 | 8.2 | N | 40 | N | -1.2 | 9 | 1 | 4.0 | 0.9 | |
| 4274 | NA064 | 36.1369 | 77.9129 | 7.2 | 83 | 3.1 | 13 | 66 | N | 33 | 13700 | 320 | 900 | 3.4 | 11300 | 30 | N | N | 14 | 2 | 5.9 | 0.3 | |
| 4275 | NA065 | 36.1312 | 77.8800 | 7.6 | 90 | 6.2 | 14 | 145 | 13200 | 53 | 21600 | N | 700 | 4.6 | 19600 | 60 | N | N | 25 | 5 | 5.5 | 0.6 | |
| 4276 | NA066 | 36.0773 | 77.9020 | 7.8 | 100 | 1.7 | 7 | 29 | 40000 | -24 | 21400 | 950 | 2500 | 10.9 | 11300 | 120 | 2.0 | N | 10 | 2 | N | 0.6 | |
| 4277 | NA067 | 36.0890 | 77.9222 | 7.1 | 72 | 4.8 | 14 | 105 | 14800 | 22 | 16900 | 610 | 1300 | 7.0 | 18200 | 50 | N | -1.0 | 24 | 4 | 3.9 | 0.6 | |
| 4278 | NA068 | 36.0865 | 77.9306 | 7.3 | 73 | 4.2 | 15 | 72 | 12100 | -20 | -5000 | 870 | 1000 | 5.6 | 16500 | 50 | N | -1.0 | 22 | N | 3.5 | -0.2 | |
| 4279 | NA069 | 36.0713 | 77.9279 | N | N | 2.1 | 6 | 19 | 19200 | 23 | 12300 | 500 | 1000 | 5.4 | 14600 | 70 | 4.3 | -1.0 | 12 | 3 | N | 0.3 | |
| 4280 | NA070 | 36.0683 | 77.9455 | 7.4 | 65 | 11.7 | 32 | 383 | 17400 | 59 | 36700 | 1260 | 600 | 11.6 | 48800 | 110 | 6.0 | -2.0 | 26 | 4 | 10.9 | 1.9 | |

ROANOKE RAPIDS 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4281 | NA071 | 36.0441 | 77.9306 | 6.5 | 98 | 30.9 | 63 | 837 | 18100 | 210 | 47100 | 1920 | 22800 | 10.8 | 70800 | 180 | 5.3 | M | 115 | 12 | 17.3 | 3.8 | |
| 4282 | NA072 | 36.0301 | 77.9612 | M | M | 1.9 | 5 | 31 | 17100 | -23 | 10800 | 500 | 3700 | 3.5 | 21300 | 70 | 3.3 | -1.1 | 7 | 6 | M | 0.3 | |
| 4283 | NA073 | 36.0165 | 77.9353 | 8.0 | 95 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| 4296 | NA086 | 36.0124 | 77.8116 | 7.4 | 110 | 5.0 | 21 | 61 | 7500 | 67 | 15300 | 760 | 300 | 3.0 | 26600 | 50 | 4.7 | -1.0 | 41 | 4 | M | 0.3 | |
| 4297 | NA087 | 36.0386 | 77.7985 | 6.8 | 91 | 7.6 | 54 | 60 | 10100 | 194 | 8300 | 240 | 300 | 3.8 | 7000 | 20 | 6.5 | M | 99 | 11 | 7.2 | 1.0 | |
| 4298 | NA088 | 36.0308 | 77.7674 | 6.5 | 118 | 8.8 | 43 | 100 | 8500 | 153 | 11600 | 880 | 400 | 3.9 | 26300 | 60 | 17.9 | M | 75 | 12 | 12.8 | 1.4 | |
| 4299 | NA089 | 36.0454 | 77.7566 | 7.0 | 92 | 4.6 | 33 | 50 | 8000 | 67 | 9400 | 320 | 600 | 2.1 | 8300 | 20 | 4.7 | -1.1 | 46 | 8 | M | 0.5 | |
| 4300 | NA090 | 36.1419 | 77.7427 | 6.7 | 125 | 7.7 | 34 | 83 | 8500 | 143 | 10700 | 600 | 500 | 2.3 | 12900 | 30 | 10.9 | -1.4 | 67 | 12 | 10.6 | 1.4 | |
| 4301 | NA091 | 36.1149 | 77.7831 | 7.1 | 74 | 12.4 | 50 | 209 | 11500 | 165 | 26100 | 1000 | 500 | 6.6 | 30400 | 70 | 6.8 | -1.7 | 71 | 9 | 10.6 | 1.6 | |
| 4302 | NA092 | 36.1017 | 77.7743 | M | M | 17.0 | 99 | 101 | 11700 | 336 | 15100 | 610 | 400 | 3.6 | 12700 | 30 | 31.2 | 3.7 | 197 | 22 | 14.6 | 2.2 | |
| 4304 | NA094 | 36.0720 | 77.8699 | 7.5 | 70 | 7.6 | 46 | 54 | 26800 | 164 | 20200 | 890 | 5000 | 6.9 | 12000 | 60 | M | -2.0 | 76 | 8 | 5.1 | 0.9 | |
| 4305 | NA095 | 36.1073 | 77.8417 | 7.5 | 71 | 19.3 | 38 | 407 | 15900 | -20 | -5000 | 2030 | 700 | 7.8 | 60300 | 130 | 4.6 | M | 57 | 13 | M | -0.2 | |
| 4306 | NA096 | 36.1198 | 77.8409 | 7.4 | 85 | 9.9 | 20 | 211 | 13000 | 82 | 36300 | M | 400 | 7.6 | 35700 | 80 | M | 2.1 | 36 | 6 | 6.1 | 1.2 | |
| 4307 | NA097 | 36.1049 | 77.8143 | 7.3 | 71 | 16.0 | 44 | 301 | 13300 | 156 | 32900 | 1380 | 600 | 6.1 | 38800 | 90 | 7.0 | M | 85 | 15 | 10.2 | 1.9 | |
| 4325 | NO001 | 36.4508 | 77.5979 | 8.5 | 36 | 5.2 | 9 | 76 | 27200 | 122 | 16100 | M | M | 4.0 | M | M | M | M | 37 | 3 | 12.2 | 0.5 | |
| 4326 | NO002 | 36.4329 | 77.5455 | 6.6 | 41 | 2.8 | 7 | 31 | 23400 | 32 | 14800 | M | 2200 | 3.3 | 12000 | 30 | M | -1.6 | 18 | 2 | 2.0 | -0.2 | |
| 4327 | NO003 | 36.3351 | 77.5283 | 5.7 | 101 | 3.9 | M | M | 85800 | M | M | 790 | 2200 | 10.5 | 7000 | 120 | 15.7 | M | M | 16 | M | M | |
| 4328 | NO004 | 36.3690 | 77.5232 | 5.1 | 40 | 2.8 | 7 | 25 | 37700 | 58 | 17400 | 650 | 8400 | 5.1 | 9400 | 60 | 5.4 | M | 24 | 4 | M | 0.8 | |
| 4329 | NO005 | 36.3347 | 77.4681 | 5.6 | 108 | 2.6 | 11 | 19 | 44500 | 47 | 26600 | 550 | 9400 | 9.9 | 8300 | 80 | 4.6 | 1.5 | 27 | 4 | 5.9 | 0.4 | |
| 4330 | NO006 | 36.3049 | 77.3834 | 5.6 | 105 | 3.6 | 11 | 14 | 53300 | 74 | 35800 | 360 | 1300 | 5.5 | 7200 | 100 | 2.6 | -1.8 | 26 | 3 | M | 0.5 | |
| 4331 | NO007 | 36.2616 | 77.3701 | 6.2 | 65 | 4.5 | 9 | 48 | 22800 | 60 | 20400 | 780 | 5000 | 5.0 | 14000 | 50 | 9.1 | -1.2 | 32 | 6 | 3.7 | 0.5 | |
| 4332 | NO008 | 36.2654 | 77.3302 | 6.8 | 110 | 5.7 | 21 | 72 | 11800 | 45 | 13400 | 530 | 1100 | 1.8 | 11400 | 30 | 6.1 | 1.0 | 35 | 3 | 2.4 | 0.6 | |
| 4333 | NO009 | 36.2489 | 77.3387 | 6.2 | 182 | 3.2 | 6 | 23 | 29200 | 61 | 17200 | M | M | 5.7 | M | 60 | M | M | 27 | 4 | M | 0.4 | |
| 4334 | NO010 | 36.2429 | 77.3501 | 5.9 | 150 | 4.3 | 7 | 6 | 77700 | 94 | 42300 | 920 | 3400 | 11.1 | 7100 | 120 | 3.9 | 5.3 | 49 | 7 | 4.9 | 0.5 | |
| 4335 | NO011 | 36.2274 | 77.3672 | 6.2 | 61 | 4.6 | 10 | 12 | 53700 | 84 | 37100 | 1980 | 8000 | 6.8 | 5800 | 120 | M | M | 40 | 8 | 4.0 | 0.4 | |
| 4336 | NO012 | 36.2253 | 77.2967 | 5.8 | 102 | 5.2 | 12 | 67 | 16300 | 66 | 17600 | 660 | 2500 | 4.3 | 13000 | 40 | 3.5 | -1.2 | 35 | 6 | 7.0 | 0.7 | |
| 4337 | NO013 | 36.2089 | 77.3089 | 6.5 | 101 | 8.7 | 35 | 99 | M | 192 | 37300 | M | M | 8.2 | M | M | M | 4.0 | 83 | M | 13.7 | 1.1 | |
| 4338 | NO014 | 36.2512 | 77.2225 | 6.1 | 60 | 4.1 | 16 | 55 | M | 65 | 16200 | M | M | 5.0 | M | M | M | M | 35 | 5 | 3.6 | 0.4 | |
| 4339 | NO015 | 36.2806 | 77.1955 | M | M | 2.9 | 6 | 31 | 15600 | 27 | 11000 | 290 | 1200 | 2.0 | 6500 | 30 | 1.7 | M | 18 | 3 | 3.0 | 0.3 | |
| 4340 | NO016 | 36.4066 | 77.4995 | 5.5 | 45 | 4.1 | 8 | 19 | M | 79 | 19500 | M | M | 7.5 | M | M | M | -1.4 | 34 | 5 | 4.1 | 0.4 | |
| 4341 | NO017 | 36.3840 | 77.4485 | 6.4 | 29 | 6.7 | 22 | 81 | 31700 | 101 | 15100 | 740 | 1200 | 4.8 | 17300 | 60 | 3.1 | M | 51 | 8 | M | 0.3 | |
| 4342 | NO018 | 36.3433 | 77.3718 | 6.3 | 100 | 2.6 | 6 | 19 | 24700 | -20 | 6000 | 170 | 2100 | 2.8 | 5900 | 40 | 2.2 | M | 16 | 3 | M | M | |
| 4343 | NO019 | 36.3114 | 77.3449 | 5.4 | 69 | 2.3 | 5 | 24 | 18300 | 14 | 9000 | 340 | 2400 | 2.9 | 8000 | 40 | 4.7 | -1.0 | 13 | 2 | 1.6 | 0.2 | |
| 4344 | NO020 | 36.2945 | 77.3033 | 6.3 | 90 | 4.9 | 13 | 58 | 15200 | 74 | 19200 | 550 | 1300 | 3.0 | 12000 | 40 | 3.4 | M | 26 | 3 | 3.8 | 0.8 | |
| 4345 | NO021 | 36.2851 | 77.2545 | 6.2 | 52 | 4.2 | M | 25 | 57200 | M | M | 420 | 3100 | 7.4 | 11200 | 90 | 3.0 | M | M | 5 | M | M | |
| 4346 | NO022 | 36.3107 | 77.1900 | 6.5 | 95 | 3.5 | 7 | 36 | 28400 | 44 | 15500 | 660 | 4900 | 5.3 | 11800 | 60 | 6.7 | -1.0 | 26 | 4 | 3.9 | 0.5 | |
| 4347 | NO023 | 36.3487 | 77.2153 | 5.5 | 89 | 4.4 | 15 | 46 | 19700 | 77 | 17600 | 500 | M | 3.8 | 10300 | 40 | 6.0 | 1.0 | 34 | 5 | M | 0.6 | |
| 4348 | NO024 | 36.3469 | 77.2571 | 5.2 | 125 | 2.4 | 5 | 26 | 11800 | -22 | -5000 | 280 | 2200 | 1.8 | 7000 | 30 | 2.7 | -1.0 | 12 | 4 | M | 0.2 | |

ROANOKE RAPIDS 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4349 | NO025 | 36.3326 | 77.2813 | 5.3 | 60 | 3.5 | 6 | 36 | 15300 | 40 | 12000 | M | 2400 | 4.4 | 5700 | 30 | 2.7 | M | 19 | 4 | M | 0.4 | |
| 4350 | NO026 | 36.3491 | 77.3345 | 4.5 | 50 | 2.4 | 6 | 24 | 16000 | 44 | 6600 | M | 1800 | 2.8 | 6500 | 20 | 3.2 | -1.0 | 17 | 2 | 5.2 | 0.4 | |
| 4351 | NO027 | 36.3774 | 77.2736 | 5.5 | 67 | 2.1 | 5 | 27 | 11400 | 29 | 16500 | 330 | 1500 | 2.0 | 8400 | 20 | M | -1.0 | 13 | 1 | 2.9 | 0.2 | |
| 4352 | NO028 | 36.3862 | 77.2345 | 5.9 | 75 | 2.9 | 8 | 40 | M | 52 | 5200 | M | M | 1.5 | M | M | M | 1.9 | 19 | 3 | M | 0.5 | |
| 4353 | NO029 | 36.3804 | 77.2073 | 6.2 | 88 | 3.4 | 13 | 30 | 14900 | 38 | 12400 | 500 | 2600 | 4.0 | 11800 | 50 | 5.4 | -1.0 | 32 | 9 | M | -0.7 | |
| 4354 | NO030 | 36.3762 | 77.1618 | 5.6 | 85 | 3.0 | 9 | 39 | M | 57 | 12100 | M | M | 3.3 | M | M | M | -1.0 | 23 | 4 | 3.4 | 0.5 | |
| 4355 | NO031 | 36.4122 | 77.1704 | 5.2 | 81 | 3.7 | 13 | 53 | 13100 | 56 | 13700 | 660 | 600 | 3.4 | 20500 | 40 | 4.1 | -1.0 | 26 | 3 | M | 0.6 | |
| 4356 | NO032 | 36.4138 | 77.2487 | 6.5 | 90 | 3.4 | 10 | 41 | M | 54 | 16000 | M | M | 3.9 | M | M | M | M | 27 | 3 | 2.2 | 0.5 | |
| 4357 | NO033 | 36.4086 | 77.2887 | 6.3 | 52 | 5.9 | 17 | 97 | 8000 | 85 | 11600 | 600 | 300 | 2.8 | 15000 | 30 | 5.1 | -1.1 | 42 | 9 | 4.0 | 0.9 | |
| 4358 | NO034 | 36.3942 | 77.3062 | 5.6 | 70 | 3.3 | 12 | 37 | M | 56 | 13400 | M | M | 3.2 | M | M | M | -1.0 | 24 | 3 | M | 0.5 | |
| 4359 | NO035 | 36.4037 | 77.3732 | 6.3 | 50 | 5.4 | 19 | 65 | 16200 | 88 | 18800 | 380 | 400 | 4.1 | 10700 | 40 | 4.9 | -1.0 | 45 | 7 | 4.5 | 1.2 | |
| 4360 | NO036 | 36.3920 | 77.4016 | 6.1 | 45 | 2.3 | M | 26 | 10800 | M | M | 210 | 1000 | 1.6 | 5600 | 20 | 2.2 | M | M | 3 | M | M | |
| 4361 | NO037 | 36.4316 | 77.3723 | 6.0 | 55 | 2.6 | 6 | 35 | 9000 | 46 | 6700 | 270 | 300 | 2.0 | 8700 | 30 | 3.7 | M | 14 | 4 | 1.6 | 0.6 | |
| 4362 | NO038 | 36.4361 | 77.4016 | 5.5 | 60 | 2.6 | 7 | 30 | 7700 | 17 | 7200 | 240 | 500 | 0.9 | 6600 | 20 | 1.8 | -1.0 | 12 | 2 | 3.3 | 0.4 | |
| 4363 | NO039 | 36.4301 | 77.4668 | 6.1 | 51 | 5.9 | 19 | 82 | 13900 | 74 | 19900 | 860 | 600 | 2.5 | 18700 | 50 | 10.4 | 2.2 | 41 | 7 | 5.9 | 1.0 | 0.043 |
| 4364 | NO040 | 36.4312 | 77.5101 | 5.6 | 40 | 3.5 | 9 | 14 | 45500 | 34 | 11000 | 260 | 1000 | 5.6 | 10800 | 70 | 5.7 | -1.0 | 22 | 3 | 2.6 | 0.3 | |
| 4365 | NO041 | 36.4615 | 77.4499 | 6.2 | 72 | 3.5 | 9 | 44 | 7300 | 44 | 7200 | M | M | 2.1 | M | M | M | -1.0 | 20 | 2 | 3.3 | 0.4 | |
| 4366 | NO042 | 36.4529 | 77.3988 | 5.9 | 40 | 2.7 | 3 | 43 | 8100 | -26 | 7500 | 280 | 600 | 2.1 | 8800 | 30 | 5.4 | 4.6 | 12 | 4 | M | 0.4 | |
| 4367 | NO043 | 36.4530 | 77.3156 | 5.8 | 39 | 7.4 | 21 | 130 | M | 74 | 10800 | M | M | 4.0 | M | M | M | 2.8 | 61 | 7 | 4.7 | 1.2 | 0.052 |
| 4368 | NO044 | 36.4495 | 77.2498 | 6.2 | 50 | 1.7 | 4 | 27 | 5000 | 21 | 6500 | 140 | 100 | 1.5 | 5000 | 20 | 1.3 | -1.0 | 6 | 1 | M | 0.2 | |
| 4369 | NO045 | 36.4444 | 77.2193 | 6.4 | 119 | 2.3 | 5 | 23 | 14100 | -20 | 13700 | 220 | 400 | 1.1 | 7400 | 30 | 3.0 | M | 14 | 3 | 2.8 | 0.2 | |
| 4370 | NO046 | 36.4549 | 77.2062 | 5.8 | 50 | 2.1 | M | 30 | M | M | M | M | M | 2.6 | M | M | M | M | M | M | M | M | |
| 4371 | NO047 | 36.4418 | 77.1738 | 6.4 | 90 | 3.4 | 7 | 44 | 12000 | 52 | 14000 | 310 | 600 | 2.5 | 9300 | 30 | 4.4 | M | 30 | 7 | 2.1 | 0.3 | |
| 4372 | NO048 | 36.4355 | 77.1378 | 6.1 | 50 | 4.8 | 13 | 57 | M | 97 | 21800 | M | M | 5.2 | M | M | M | 2.5 | 36 | 4 | 2.3 | 0.9 | |
| 4373 | NO049 | 36.4681 | 77.1422 | 6.3 | 65 | 4.3 | 20 | 50 | 12600 | 93 | 17600 | 390 | 1700 | 4.5 | 10300 | 30 | 4.6 | -1.0 | 48 | 7 | 3.8 | 0.9 | |
| 4374 | NO050 | 36.4771 | 77.1457 | 6.5 | 115 | 8.2 | 21 | 142 | 16200 | 163 | 28000 | 670 | 1700 | 4.9 | 19100 | 60 | 4.2 | -1.0 | 240 | 10 | M | M | |
| 4375 | NO051 | 36.4941 | 77.1735 | 6.8 | 131 | 3.8 | 16 | 53 | 10700 | 38 | 13100 | 330 | 600 | 3.3 | 9200 | 30 | 3.8 | M | 35 | 6 | 2.9 | 0.4 | 0.030 |
| 4376 | NO052 | 36.4958 | 77.2616 | 6.5 | 105 | 6.9 | 30 | 87 | 6100 | 149 | -5000 | 250 | 500 | 3.5 | 6600 | 10 | 5.3 | 2.7 | 73 | 10 | 4.4 | 0.7 | |
| 4377 | NO053 | 36.4975 | 77.3102 | 6.4 | 48 | 2.4 | M | 39 | 6900 | M | M | 200 | 200 | 1.9 | 5700 | 10 | 2.1 | M | 13 | 3 | M | M | |
| 4382 | NO058 | 36.4591 | 77.5015 | 5.7 | 60 | 2.0 | 4 | 18 | 13900 | -20 | 8100 | 160 | 800 | 2.7 | 5800 | 30 | 3.1 | -1.2 | 10 | 2 | 2.2 | 0.5 | |
| 4390 | NO066 | 36.4911 | 77.6700 | 5.9 | 38 | 7.0 | 20 | 134 | 29300 | 49 | 32900 | 780 | 400 | 6.7 | 23700 | 80 | 4.5 | -1.0 | 33 | 3 | 5.5 | 1.1 | |
| 4391 | NO067 | 36.4819 | 77.6346 | 6.1 | 98 | 5.4 | 17 | 77 | 9700 | 65 | 25700 | 720 | 400 | 2.9 | 17800 | 40 | 5.7 | 1.7 | 35 | 5 | 4.5 | 1.1 | |
| 6392 | WR001 | 36.4535 | 77.9308 | 8.0 | 101 | 4.1 | 9 | 93 | 16000 | 29 | -5000 | 160 | 7900 | 3.6 | 2500 | 10 | 4.8 | -1.0 | M | M | 11.0 | 0.8 | |
| 6393 | WR002 | 36.3861 | 77.9190 | 7.6 | 42 | 3.8 | 14 | 23 | 66500 | 82 | 34000 | 380 | 16200 | 8.6 | 6000 | 60 | 5.0 | 3.1 | 58 | 5 | M | M | |
| 6394 | WR003 | 36.3883 | 77.9362 | 7.7 | 41 | 1.9 | 4 | 11 | 24900 | 83 | 9800 | 280 | 9900 | 8.7 | 1500 | 20 | 3.3 | 3.9 | 22 | 15 | M | -0.3 | |
| 6395 | WR004 | 36.3679 | 77.9491 | 7.8 | 50 | 4.7 | 19 | 13 | 29800 | 78 | 22500 | 620 | 10900 | 8.8 | 5100 | 60 | 13.0 | -1.0 | 42 | 10 | 4.6 | 0.5 | |
| 6396 | WR005 | 36.3330 | 77.9374 | 7.6 | 51 | 11.5 | 101 | 32 | 22000 | 461 | 15900 | 740 | 9100 | 14.9 | 7100 | 50 | 27.7 | 4.2 | 217 | 98 | 17.1 | 2.6 | |
| 6397 | WR006 | 36.3121 | 77.9512 | 7.7 | 59 | 1.2 | -2 | 8 | 19500 | -20 | 14400 | 600 | 8900 | 8.3 | 7300 | 50 | 1.1 | 2.8 | M | M | 2.5 | 0.3 | |

ROANOKE RAPIDS 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 |
| 6398 | WR007 | 36.2794 | 77.9601 | 7.4 | 52 | 1.6 | -3 | 8 | 32700 | 54 | 29100 | 610 | 9600 | 8.0 | 6200 | 80 | 3.1 | -1.0 | M | 4 | M | 0.4 | |
| 6406 | WR015 | 36.3105 | 77.9802 | 7.5 | 81 | 1.6 | 7 | 12 | 23600 | -20 | 40700 | 870 | 8600 | 14.2 | 10600 | 130 | 3.1 | 4.6 | M | M | M | -0.3 | |
| 6407 | WR016 | 36.3188 | 77.9745 | 7.6 | 49 | 1.5 | 8 | 6 | 22700 | 20 | 34400 | 260 | 7400 | 5.9 | 5000 | 70 | 2.7 | 2.4 | 15 | 9 | M | M | |
| 6408 | WR017 | 36.3389 | 77.9918 | 7.4 | 60 | 1.5 | 8 | 6 | 50000 | 40 | 59200 | 1790 | 12400 | 18.7 | 10500 | 230 | 4.7 | -1.0 | 24 | M | M | -0.3 | |
| 6411 | WR020 | 36.3479 | 77.9750 | 7.6 | 46 | 13.1 | 98 | 35 | 30400 | 408 | 16800 | 800 | 10600 | 11.9 | 8500 | 60 | 41.0 | -1.2 | 118 | 38 | 17.9 | 2.4 | |
| 6412 | WR021 | 36.3783 | 77.9793 | 6.1 | 41 | 25.8 | 8 | 13 | 28700 | 30 | 18800 | 170 | 3900 | 4.0 | 1600 | 40 | 2.2 | -1.0 | 17 | 4 | M | 0.6 | |
| 6413 | WR022 | 36.4044 | 77.9516 | 6.8 | 49 | 1.6 | -3 | 7 | 19100 | -20 | 5900 | 300 | 3400 | 3.4 | 1800 | 20 | 1.8 | -1.0 | 9 | M | 2.8 | -0.2 | |
| 6445 | WR054 | 36.4542 | 77.9720 | 7.7 | 59 | 2.3 | 15 | 5 | 42000 | 74 | 17700 | 640 | 4800 | 28.2 | 1900 | 110 | 6.7 | -1.0 | 23 | 5 | 4.2 | -0.2 | |

EMPORIA 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2915 | NO054 | 36.5155 | 77.3592 | -0.1 | 0.1 | 1 | 5 | -0.5 | -100 | -5 | 5 | -2 | 3000 | 8 | 300 | -2 | -5 | -5 | 700 | -10 | -1 | -5 | . | -2 | -5 | 7 |
| 2916 | NO055 | 36.5212 | 77.3830 | -0.1 | 0.2 | | 12 | -0.5 | -100 | 5 | 7 | -2 | 2000 | 8 | 350 | -2 | -5 | -5 | 700 | -10 | 3 | 10 | . | -2 | -5 | 5 |
| 2917 | NO056 | 36.5067 | 77.4107 | -0.1 | -0.1 | | 5 | -0.5 | -100 | -5 | 8 | -2 | 2000 | 7 | 350 | -2 | -5 | -5 | 700 | -10 | -1 | 5 | . | -2 | -5 | 5 |
| 2918 | NO057 | 36.5071 | 77.4586 | -0.1 | -0.1 | 0 | . | 0.5 | -100 | -5 | 16 | 2 | 1000 | 8 | 400 | 5 | -5 | -5 | 700 | -10 | 2 | -5 | . | -2 | 5 | 5 |
| 2920 | NO059 | 36.5034 | 77.5105 | -0.1 | 0.1 | 1 | 15 | -0.5 | -100 | -5 | 10 | -2 | 3000 | 7 | 300 | -2 | 5 | -5 | 500 | -10 | -1 | -5 | . | -2 | -5 | -5 |
| 2921 | NO060 | 36.5057 | 77.5488 | -0.1 | 0.1 | 1 | 17 | 1 | -100 | -5 | 10 | -2 | 4000 | 6 | 350 | -2 | 5 | -5 | 500 | -10 | 2 | -5 | . | -2 | -5 | -5 |
| 2922 | NO061 | 36.5091 | 77.5434 | -0.1 | -0.1 | 3 | 7 | -0.5 | -100 | -5 | 6 | 2 | 4000 | 6 | 300 | -2 | 5 | -5 | 600 | -10 | 1 | -5 | . | -2 | 10 | 7 |
| 2923 | NO062 | 36.5094 | 77.6326 | -0.1 | 0.1 | 2 | 10 | 0.5 | 100 | -5 | 7 | 4 | 3000 | 12 | 1050 | 3 | 5 | -5 | 600 | 12 | -1 | -5 | . | -2 | 5 | 22 |
| 2924 | NO063 | 36.5203 | 77.6555 | -0.1 | -0.1 | 2 | . | 0.5 | 100 | -5 | 20 | 2 | 2000 | 7 | 900 | -2 | 5 | -5 | 600 | -10 | 1 | -5 | . | -2 | 5 | 15 |
| 2925 | NO064 | 36.5113 | 77.6858 | . | . | | 5 | . | . | . | . | . | . | . | . | . | . | . | . | . | | . | . | . | . | . |
| 2926 | NO065 | 36.5014 | 77.6857 | -0.1 | 0.1 | 0 | 10 | -0.5 | -100 | -5 | 13 | 2 | 2000 | 5 | 350 | 5 | 5 | -5 | 600 | 20 | -1 | 10 | . | -2 | -5 | 12 |

ROANOKE RAPIDS 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1810 | HA001 | 36.0423 | 77.4033 | -0.1 | 0.1 | 1 | 7 | -0.5 | 100 | -5 | 23 | 2 | 2000 | 9 | 650 | -2 | -5 | -5 | 600 | 12 | 1 | -5 | . | -2 | -5 | 7 |
| 1811 | HA002 | 36.0503 | 77.3855 | -0.1 | 0.1 | 1 | 10 | -0.5 | -100 | -5 | 11 | 2 | 2000 | 7 | 650 | -2 | 60 | -5 | 700 | -10 | 3 | -5 | . | -2 | -5 | 7 |
| 1812 | HA003 | 36.1242 | 77.3517 | -0.1 | -0.1 | | 12 | 0.5 | 100 | -5 | 15 | 5 | 5000 | 10 | 650 | -2 | 60 | -5 | 800 | -10 | -1 | -5 | . | -2 | 5 | 20 |
| 1813 | HA004 | 36.1467 | 77.3485 | 0.7 | 0.1 | 5 | 10 | 0.5 | 100 | 5 | 16 | 7 | 5000 | 13 | 850 | -2 | -5 | -5 | 700 | 15 | 2 | -5 | . | -2 | 5 | 30 |
| 1814 | HA005 | 36.1915 | 77.3872 | -0.1 | 0.1 | 1 | . | -0.5 | 100 | -5 | 6 | 2 | 5000 | 6 | 600 | -2 | -5 | -5 | 700 | -10 | -1 | -5 | . | -2 | -5 | 7 |
| 1815 | HA006 | 36.2184 | 77.3938 | -0.1 | 0.2 | 1 | 12 | 1 | 200 | -5 | 16 | 6 | 6000 | 40 | 3000 | 11 | -5 | -5 | 900 | -10 | -1 | -5 | . | -2 | 10 | 25 |
| 1816 | HA007 | 36.1956 | 77.4567 | -0.1 | 0.4 | 0 | 15 | 0.5 | 100 | 8 | 5 | 5 | 1000 | 7 | 300 | -2 | -5 | 6 | 900 | -10 | 2 | -5 | . | -2 | 5 | 25 |
| 1817 | HA008 | 36.1521 | 77.4850 | -0.1 | -0.1 | 0 | 7 | -0.5 | -100 | -5 | 7 | 2 | 1000 | 6 | 300 | -2 | -5 | -5 | 900 | -10 | -1 | -5 | . | -2 | -5 | 7 |
| 1818 | HA009 | 36.0899 | 77.4774 | -0.1 | 0.3 | 4 | 12 | 0.5 | -100 | -5 | 7 | 2 | 1000 | 6 | 300 | -2 | 5 | -5 | 500 | -10 | 2 | -5 | . | -2 | -5 | 7 |
| 1819 | HA010 | 36.1925 | 77.6833 | -0.1 | 0.2 | 2 | 12 | 0.5 | 100 | 5 | 9 | 4 | 3000 | 13 | 650 | -2 | 10 | -5 | 800 | 15 | -1 | -5 | . | -2 | 5 | 17 |
| 1820 | HA011 | 36.2098 | 77.7275 | -0.1 | 0.1 | | 12 | -0.5 | -100 | -5 | 10 | 2 | 2000 | 6 | 300 | -2 | 5 | -5 | 700 | 35 | 1 | -5 | . | -2 | -5 | 7 |
| 1821 | HA012 | 36.2279 | 77.8070 | -0.1 | -0.1 | | 7 | 0.5 | 200 | 5 | 20 | -2 | 2000 | 6 | 500 | -2 | 5 | -5 | 500 | 20 | -1 | -5 | . | -2 | -5 | 12 |
| 1822 | HA013 | 36.2517 | 77.9226 | -0.1 | 0.1 | 2 | 10 | 0.5 | 100 | 5 | 36 | 5 | 3000 | 11 | 2300 | -2 | 5 | 7 | 700 | -10 | -1 | 15 | . | -2 | 5 | 32 |
| 1823 | HA014 | 36.2624 | 77.9374 | -0.1 | 0.2 | | 85 | 1 | 300 | 12 | 30 | 8 | 8000 | 14 | 3750 | -2 | -5 | 10 | 800 | -10 | 1 | -5 | . | -2 | -5 | 47 |

ROANOKE RAPIDS 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1824 | HA015 | 36.2948 | 77.9217 | 0.1 | -0.1 | 0 | 7 | -0.5 | -100 | 7 | 7 | 3 | 11000 | 7 | 550 | -2 | -5 | -5 | 500 | -10 | -1 | -5 | . | -2 | -5 | 10 |
| 1825 | HA016 | 36.3270 | 77.8703 | 0.1 | -0.1 | 0 | 347 | 1 | 200 | -5 | 7 | 3 | 25000 | 8 | 2400 | -2 | -5 | -5 | 1000 | -10 | 1 | 10 | . | -2 | 10 | 15 |
| 1826 | HA017 | 36.3311 | 77.8481 | 0.1 | 0.2 | | 57 | 1 | 100 | 7 | 8 | 2 | 27000 | 8 | 1700 | -2 | 5 | -5 | 800 | -10 | 2 | 20 | . | -2 | -5 | 10 |
| 1827 | HA018 | 36.3694 | 77.8349 | 0.1 | 0.1 | 1 | 15 | 0.5 | 100 | -5 | 13 | 2 | 11000 | 8 | 400 | 3 | 15 | -5 | 700 | -10 | 2 | -5 | . | -2 | -5 | 7 |
| 1828 | HA019 | 36.4209 | 77.8314 | 0.2 | -0.1 | 0 | 97 | 1 | 100 | -5 | 7 | 3 | 21000 | 9 | 1800 | -2 | 60 | -5 | 500 | -10 | -1 | 20 | . | 2 | .15 | 7 |
| 1829 | HA020 | 36.4387 | 77.8390 | 0.3 | -0.1 | 0 | 37 | 0.5 | 100 | -5 | 5 | 2 | 22000 | 11 | 850 | 2 | 75 | -5 | 1100 | -10 | -1 | -5 | . | -2 | 495 | 10 |
| 1830 | HA021 | 36.4436 | 77.7897 | 0.2 | -0.1 | 0 | 12 | 0.5 | 100 | -5 | 23 | 2 | 10000 | 9 | 2000 | -2 | 20 | -5 | 700 | 10 | 1 | -5 | . | -2 | 5 | 10 |
| 1831 | HA022 | 36.4033 | 77.7200 | 0.1 | -0.1 | 0 | 17 | 1 | 100 | -5 | 23 | 2 | 1000 | 9 | 450 | -2 | 20 | -5 | 700 | 25 | -1 | 10 | . | -2 | -5 | 10 |
| 1832 | HA023 | 36.3635 | 77.6578 | -0.1 | -0.1 | 0 | 12 | 0.5 | 100 | -5 | 18 | 2 | 2000 | 6 | 1450 | -2 | 10 | -5 | 700 | 22 | -1 | -5 | . | -2 | -5 | 10 |
| 1833 | HA024 | 36.3387 | 77.6029 | 0.1 | 0.1 | 1 | 7 | 0.5 | 100 | 5 | 40 | 2 | 3000 | 7 | 650 | -2 | 5 | -5 | 800 | 20 | 4 | -5 | . | -2 | 5 | 15 |
| 1834 | HA025 | 36.1842 | 77.7224 | 0.1 | 0.1 | 1 | 10 | 0.5 | 100 | -5 | 8 | 3 | 2000 | 10 | 600 | 2 | -5 | -5 | 600 | 15 | 1 | -5 | . | -2 | 10 | 10 |
| 1835 | HA026 | 36.1762 | 77.7333 | -0.1 | -0.1 | 1 | 10 | -0.5 | 100 | -5 | 10 | 3 | 2000 | 9 | 500 | -2 | 55 | -5 | 600 | 32 | -1 | -5 | . | -2 | -5 | 10 |
| 1836 | HA027 | 36.1780 | 77.7828 | 0.1 | 0.1 | 0 | 17 | 0.5 | 100 | -5 | 12 | 3 | 6000 | 7 | 2350 | -2 | 20 | -5 | 600 | 15 | 2 | -5 | . | -2 | 5 | 15 |
| 1837 | HA028 | 36.1816 | 77.8152 | 0.1 | 0.1 | 1 | . | 0.5 | 100 | -5 | 27 | 2 | 2000 | 9 | 1000 | 2 | 55 | -5 | 600 | 27 | 3 | -5 | . | 2 | 15 | 10 |
| 1838 | HA029 | 36.1551 | 77.8523 | 0.1 | -0.1 | 1 | 20 | 0.5 | 200 | -5 | 12 | 3 | 3000 | 7 | 1950 | -2 | 10 | -5 | 700 | 10 | 2 | -5 | . | -2 | -5 | 7 |
| 1839 | HA030 | 36.1799 | 77.8987 | -0.1 | 0.2 | 1 | 22 | 0.5 | 200 | 7 | 8 | 3 | 4000 | 14 | 1950 | -2 | 10 | 5 | 700 | 10 | 2 | 15 | . | -2 | -5 | 22 |
| 1840 | HA031 | 36.1969 | 77.9333 | -0.1 | 0.2 | 4 | 50 | 1 | 200 | 12 | 11 | 7 | 7000 | 10 | 2050 | -2 | 20 | 7 | 900 | 10 | 2 | -5 | . | -2 | -5 | 30 |
| 1841 | HA032 | 36.2097 | 77.9222 | -0.1 | 0.2 | 1 | 35 | 0.5 | 200 | 7 | 45 | 3 | 2000 | 6 | -200 | -2 | 15 | 5 | 1100 | 10 | 4 | -5 | . | -2 | -5 | 20 |
| 1843 | HA034 | 36.2324 | 77.9708 | -0.1 | 0.1 | 2 | 10 | -0.5 | 100 | -5 | 13 | 3 | 1000 | 7 | 800 | -2 | -5 | -5 | 500 | -10 | 1 | -5 | . | -2 | -5 | 7 |
| 1844 | HA035 | 36.2326 | 77.9510 | . | . | | . | . | . | . | . | . | . | . | . | . | . | . | . | . | | . | . | . | . | . |
| 1845 | HA036 | 36.2552 | 77.8911 | 0.1 | -0.1 | 1 | 17 | -0.5 | 100 | 5 | 14 | 2 | 7000 | 7 | 2150 | -2 | -5 | -5 | 800 | -10 | 1 | -5 | . | -2 | 15 | 10 |
| 1846 | HA037 | 36.2778 | 77.8802 | 0.1 | 0.1 | 2 | 100 | 1.5 | 100 | 7 | 8 | 4 | 24000 | 12 | 1000 | -2 | 15 | 10 | 800 | -10 | 2 | -5 | . | 7 | -5 | 15 |
| 1847 | HA038 | 36.2711 | 77.8250 | 0.1 | 0.1 | 0 | 85 | 1 | 100 | 10 | 18 | 3 | 20000 | 9 | 1500 | -2 | 5 | -5 | 900 | 12 | 4 | -5 | . | -2 | 10 | 10 |
| 1848 | HA039 | 36.2704 | 77.7867 | -0.1 | -0.1 | 5 | 15 | 0.5 | 100 | -5 | 11 | 2 | 1000 | 6 | 800 | -2 | 40 | -5 | 900 | 35 | 3 | -5 | . | 2 | -5 | 10 |
| 1849 | HA040 | 36.2569 | 77.7593 | -0.1 | -0.1 | 5 | 12 | 0.5 | 100 | -5 | 13 | 2 | 1000 | 6 | 2450 | -2 | 30 | -5 | 700 | 22 | -1 | 5 | . | 2 | -5 | 7 |
| 1850 | HA041 | 36.2303 | 77.7688 | 0.1 | 0.2 | 2 | 12 | 0.5 | 200 | 5 | 18 | 3 | 1000 | 8 | 750 | -2 | 40 | -5 | 700 | 35 | -1 | -5 | . | -2 | 5 | 10 |
| 1851 | HA042 | 36.2194 | 77.7298 | 0.1 | -0.1 | 16 | 10 | -0.5 | 100 | -5 | 15 | 2 | 1000 | 7 | 450 | -2 | 40 | -5 | 700 | 32 | -1 | 5 | . | -2 | -5 | 5 |
| 1852 | HA043 | 36.2410 | 77.7213 | 0.1 | -0.1 | 7 | 15 | 1 | 200 | -5 | 9 | 2 | 1000 | 7 | 2100 | -2 | 40 | -5 | 700 | 27 | -1 | 15 | . | -2 | -5 | 10 |
| 1853 | HA044 | 36.2753 | 77.7046 | 0.7 | 0.1 | 2 | 22 | 0.5 | 100 | -5 | 25 | 3 | 1000 | 7 | 650 | -2 | 25 | -5 | 800 | 32 | -1 | 10 | . | -2 | -5 | 10 |
| 1854 | HA045 | 36.2834 | 77.6954 | -0.1 | 0.1 | 1 | 30 | 0.5 | 100 | -5 | 39 | 2 | 1000 | 7 | 2250 | -2 | 10 | -5 | 900 | 50 | 3 | -5 | . | -2 | 15 | 15 |
| 1855 | HA046 | 36.3131 | 77.6987 | -0.1 | 0.1 | | 12 | 0.5 | 100 | -5 | 14 | 2 | 2000 | 6 | 550 | 3 | 5 | -5 | 800 | 42 | -1 | -5 | . | -2 | -5 | 7 |
| 1856 | HA047 | 36.3166 | 77.7196 | 0.1 | 0.1 | 0 | 15 | 0.5 | 100 | -5 | 16 | 2 | 1000 | 6 | 650 | 3 | 30 | -5 | 700 | 20 | 2 | -5 | . | -2 | 15 | 7 |
| 1857 | HA048 | 36.3066 | 77.7201 | 0.1 | -0.1 | 0 | 17 | 0.5 | 100 | -5 | 15 | 2 | 1000 | 7 | 550 | -2 | 15 | -5 | 1000 | 37 | 5 | -5 | . | -2 | 15 | 7 |
| 1858 | HA049 | 36.2784 | 77.7446 | 0.1 | -0.1 | 0 | 10 | 0.5 | 200 | -5 | 25 | 3 | 1000 | 9 | 500 | -2 | 10 | -5 | 1000 | 32 | 1 | -5 | . | -2 | 15 | 15 |
| 1859 | HA050 | 36.2915 | 77.8152 | 0.1 | -0.1 | 0 | 15 | 0.5 | 100 | -5 | 15 | 2 | 15000 | 7 | 550 | 3 | 30 | -5 | 800 | 17 | -1 | -5 | . | -2 | 10 | 7 |
| 1860 | HA051 | 36.3316 | 77.7577 | 0.2 | -0.1 | 6 | 7 | 0.5 | 100 | -5 | 15 | 2 | 2000 | 7 | 1450 | 2 | 25 | -5 | 700 | 27 | -1 | 20 | . | -2 | -5 | 7 |
| 1861 | HA052 | 36.3404 | 77.7543 | 0.1 | 0.1 | 10 | 12 | -0.5 | 100 | 5 | 20 | 3 | 1000 | 10 | 750 | -2 | -5 | -5 | 700 | 25 | 2 | -5 | . | -2 | 5 | 10 |
| 1862 | HA053 | 36.3484 | 77.7527 | -0.1 | 0.1 | 1 | 27 | 0.5 | 100 | -5 | 15 | 3 | 2000 | 6 | 500 | -2 | -5 | 5 | 700 | 12 | 1 | -5 | . | -2 | 10 | 7 |

ROANOKE RAPIDS 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1863 | HA054 | 36.3454 | 77.7065 | -0.1 | -0.1 | 1 | 17 | 0.5 | 100 | -5 | 31 | 2 | 1000 | 6 | 1500 | -2 | -5 | -5 | 1100 | 22 | 1 | 10 | . | -2 | -5 | 7 |
| 1864 | HA055 | 36.3761 | 77.7344 | -0.1 | -0.1 | 1 | -5 | -0.5 | 100 | 7 | 17 | 3 | 1000 | 5 | 650 | -2 | 10 | -5 | 500 | 12 | -1 | -5 | . | -2 | 15 | 12 |
| 1865 | HA056 | 36.3827 | 77.7588 | -0.1 | -0.1 | 0 | 20 | 0.5 | 100 | 7 | 22 | 3 | 2000 | 7 | 2200 | -2 | 5 | 5 | 500 | 12 | 1 | -5 | . | -2 | 10 | 7 |
| 1866 | HA057 | 36.3780 | 77.8518 | 0.1 | -0.1 | 0 | 17 | 0.5 | -100 | 7 | -5 | 2 | 24000 | 6 | 1650 | -2 | 5 | -5 | 500 | -10 | -1 | 5 | . | -2 | 15 | 5 |
| 1867 | HA058 | 36.3794 | 77.8717 | 0.1 | -0.1 | 0 | 215 | 1 | 100 | 5 | 7 | 3 | 27000 | 9 | 1550 | -2 | 10 | 5 | 500 | -10 | -1 | -5 | . | -2 | 20 | 10 |
| 1868 | HA059 | 36.3737 | 77.8945 | 0.1 | -0.1 | 0 | 32 | 0.5 | 100 | -5 | 5 | 3 | 21000 | 6 | 450 | -2 | 60 | -5 | 500 | -10 | -1 | -5 | . | -2 | 15 | 10 |
| 1869 | HA060 | 36.3305 | 77.9259 | 0.1 | -0.1 | 0 | 130 | 0.5 | 100 | 12 | 8 | 6 | 19000 | 6 | 550 | -2 | 5 | -5 | 700 | -10 | -1 | -5 | . | -2 | 10 | 10 |
| 1870 | HA061 | 36.3331 | 77.9133 | 0.1 | 0.1 | 0 | 102 | 1.2 | 100 | 12 | 10 | 5 | 42000 | -5 | 1900 | -2 | 40 | 7 | 700 | -10 | -1 | -5 | . | -2 | 10 | 10 |
| 1871 | HA062 | 36.4383 | 77.8834 | -0.1 | 0.1 | 3 | 20 | 1 | -100 | -5 | -5 | 3 | 27000 | 7 | 1550 | -2 | 30 | -5 | -20 | -10 | -1 | -5 | . | -2 | -5 | 10 |
| 1872 | HA063 | 36.4727 | 77.9037 | 0.1 | -0.1 | 0 | 90 | 1 | 100 | 7 | -5 | 3 | 23000 | 9 | 2000 | -2 | 15 | -5 | 500 | -10 | -1 | -5 | . | -2 | 15 | 10 |
| 1873 | HA064 | 36.4698 | 77.8152 | 0.1 | -0.1 | 0 | 22 | 0.5 | 100 | 7 | 5 | 5 | 19000 | 11 | 2850 | -2 | 10 | 5 | 700 | -10 | -1 | -5 | . | -2 | 10 | 15 |
| 1874 | HA065 | 36.4164 | 77.7695 | 0.1 | 0.1 | 1 | 22 | -0.5 | -100 | -5 | 12 | 2 | 2000 | 5 | 1250 | 4 | 25 | -5 | 600 | 12 | -1 | 10 | . | -2 | 5 | 5 |
| 1875 | HA066 | 36.4189 | 77.7360 | 0.1 | 0.1 | 8 | 10 | -0.5 | -100 | -5 | 11 | 2 | 1000 | 5 | 900 | 2 | 25 | -5 | 600 | 15 | -1 | 5 | . | -2 | 15 | 7 |
| 1876 | HA067 | 36.4259 | 77.7329 | -0.1 | -0.1 | 4 | 12 | -0.5 | 100 | 5 | 6 | 4 | 2000 | 6 | 1000 | -2 | 25 | 5 | 700 | 15 | 2 | 5 | . | -2 | 20 | 10 |
| 1877 | HA068 | 36.4286 | 77.7146 | 0.1 | -0.1 | 2 | 22 | -0.5 | -100 | -5 | 22 | 2 | 1000 | 5 | 1850 | -2 | 5 | -5 | 600 | 32 | -1 | -5 | . | -2 | 15 | 7 |
| 1878 | HA069 | 36.4580 | 77.7022 | 0.1 | -0.1 | 10 | 15 | 0.5 | 100 | -5 | 14 | 3 | 3000 | 10 | 1550 | -2 | -5 | -5 | 900 | 40 | -1 | 30 | . | -2 | 5 | 12 |
| 1879 | HA070 | 36.4323 | 77.6541 | -0.1 | -0.1 | 2 | 20 | 0.5 | 100 | 5 | -5 | 5 | 2000 | 7 | 1300 | 2 | 15 | 5 | 600 | 40 | -1 | -5 | . | -2 | -5 | 27 |
| 1880 | HA071 | 36.3992 | 77.6662 | -0.1 | 0.1 | 0 | 7 | 0.5 | -100 | -5 | 15 | 3 | 2000 | 6 | 450 | 3 | 15 | 5 | 900 | 30 | -1 | 15 | . | -2 | -5 | 10 |
| 1881 | HA072 | 36.3471 | 77.6793 | -0.1 | 0.2 | 2 | 7 | 1 | -100 | 5 | 12 | 4 | 3000 | 10 | 950 | 2 | 5 | -5 | 800 | 20 | 1 | 5 | . | -2 | 10 | 25 |
| 1882 | HA073 | 36.3020 | 77.6684 | -0.1 | 0.1 | 4 | 5 | -0.5 | -100 | -5 | 10 | 2 | 1000 | -5 | 650 | 3 | -5 | -5 | 500 | -10 | 2 | 15 | . | -2 | 5 | 5 |
| 1883 | HA074 | 36.3066 | 77.6360 | 0.1 | -0.1 | 0 | 10 | 0.5 | 100 | 5 | 29 | 3 | 2000 | 6 | 1200 | 2 | 5 | -5 | 700 | 17 | -1 | -5 | . | -2 | -5 | 5 |
| 1884 | HA075 | 36.3217 | 77.5920 | 0.1 | -0.1 | 0 | 7 | 0.5 | 100 | -5 | 12 | 3 | 4000 | 7 | 2600 | 2 | 40 | 5 | 700 | 20 | -1 | -5 | . | -2 | 25 | 17 |
| 1885 | HA076 | 36.2492 | 77.5543 | 0.1 | 0.3 | 4 | 27 | 1.5 | 300 | 15 | 6 | 6 | 7000 | 21 | 3050 | -2 | 5 | 5 | 800 | 15 | -1 | -5 | . | -2 | -5 | 40 |
| 1886 | HA077 | 36.4106 | 77.6199 | 0.1 | 0.1 | 3 | 10 | 0.5 | 100 | -5 | 10 | 4 | 6000 | 8 | 1150 | -2 | 40 | -5 | 700 | 12 | -1 | -5 | . | -2 | -5 | 15 |
| 1887 | HA078 | 36.4200 | 77.5876 | -0.1 | -0.1 | 3 | 5 | 1 | 200 | 10 | 12 | 8 | 17000 | 5 | 1650 | -2 | 20 | 7 | 1000 | -10 | -1 | -5 | . | -2 | -5 | 32 |
| 1888 | HA079 | 36.3748 | 77.5887 | 0.1 | -0.1 | 1 | 5 | 0.5 | 100 | 5 | -5 | 3 | 5000 | 7 | 1850 | -2 | 15 | -5 | 700 | -10 | -1 | -5 | . | -2 | 10 | 7 |
| 1889 | HA080 | 36.2758 | 77.4759 | 0.1 | 0.2 | 5 | 15 | 1 | 200 | 72 | 50 | 23 | 8000 | 30 | 6000 | 17 | 13 | 31 | 1000 | 31 | -1 | 117 | . | -2 | 17 | 92 |
| 1890 | HA081 | 36.2440 | 77.5449 | 0.1 | -0.1 | 2 | 172 | 0.5 | 100 | 7 | 5 | 3 | 5000 | 7 | 1750 | -2 | 75 | 5 | 800 | -10 | -1 | -5 | . | -2 | -5 | 10 |
| 1891 | HA082 | 36.2278 | 77.5447 | -0.1 | -0.1 | 4 | 5 | -0.5 | 100 | -5 | 20 | 2 | 3000 | 6 | 1150 | -2 | 15 | -5 | 700 | -10 | 1 | -5 | . | -2 | -5 | 10 |
| 1892 | HA083 | 36.2181 | 77.5676 | 0.1 | 0.1 | 5 | 55 | 1 | 100 | 7 | 5 | 7 | 5000 | 23 | 2700 | -2 | 15 | 10 | 900 | 15 | 1 | 10 | . | -2 | -5 | 27 |
| 1893 | HA084 | 36.2204 | 77.5807 | -0.1 | -0.1 | 3 | 7 | -0.5 | -100 | 7 | 50 | 2 | 3000 | -5 | 1250 | -2 | -5 | -5 | 500 | -10 | -1 | -5 | . | -2 | 5 | 5 |
| 1894 | HA085 | 36.2073 | 77.6148 | 0.1 | 0.1 |  | 12 | -0.5 | 100 | 5 | 14 | 4 | 2000 | 7 | 450 | -2 | 5 | 5 | 700 | 10 | -1 | -5 | . | -2 | 20 | 7 |
| 1895 | HA086 | 36.1743 | 77.6151 | 0.1 | -0.1 | 3 | 20 | 0.5 | 100 | 7 | 9 | 3 | 4000 | 5 | 1250 | -2 | 5 | -5 | 800 | 10 | -1 | -5 | . | -2 | 25 | 7 |
| 1896 | HA087 | 36.1431 | 77.6148 | 0.1 | 0.1 | 4 | 5 | 1 | 100 | 5 | -5 | 4 | 14000 | 10 | 2400 | -2 | 5 | 5 | 700 | 15 | 1 | -5 | . | -2 | -5 | 12 |
| 1897 | HA088 | 36.2248 | 77.4282 | 0.1 | 0.1 | 1 | 22 | 0.5 | 100 | -5 | 19 | 3 | 6000 | 6 | 1400 | 2 | 10 | -5 | 700 | -10 | 3 | -5 | . | -2 | -5 | 7 |
| 1898 | HA089 | 36.1856 | 77.4731 | -0.1 | -0.1 | 0 | 22 | -0.5 | 100 | 5 | 6 | 2 | 2000 | 6 | 450 | -2 | 10 | -5 | 500 | -10 | -1 | -5 | . | -2 | -5 | 5 |

ROANOKE RAPIDS 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2819 | NA058 | 36.0482 | 77.9994 | 0.3 | -0.1 | 1 | 10 | 0.5 | 100 | -5 | -5 | 3 | -1000 | 6 | 1200 | 3 | 20 | -5 | 700 | 22 | -1 | -5 | . | 2 | -5 | 7 |
| 2820 | NA059 | 36.0619 | 77.9865 | 0.7 | 0.1 | 2 | 7 | 0.5 | 100 | -5 | -5 | 6 | -1000 | 7 | 1500 | -2 | -5 | 5 | 700 | 27 | 1 | 5 | . | 2 | 15 | 5 |
| 2821 | NA060 | 36.1085 | 77.9886 | 0.6 | -0.1 | 1 | 12 | 1 | 100 | -5 | -5 | 7 | 1000 | 6 | 1500 | -2 | -5 | 5 | 700 | 10 | -1 | -5 | . | -2 | 10 | 10 |
| 2822 | NA061 | 36.1277 | 77.9566 | 0.6 | 0.1 |  | 10 | 1.5 | 100 | -5 | 15 | 4 | 1000 | 10 | 1200 | 3 | -5 | -5 | 600 | -10 | -1 | 10 | . | -2 | -5 | 7 |
| 2823 | NA062 | 36.1452 | 77.9827 | 0.3 | 0.1 | 1 | 7 | 0.5 | 200 | -5 | 5 | 4 | -1000 | 6 | 700 | 2 | -5 | -5 | 600 | 10 | -1 | -5 | . | 2 | 5 | 7 |
| 2825 | NA064 | 36.1369 | 77.9129 | 0.3 | -0.1 |  | 5 | 1 | 100 | -5 | 7 | 4 | -1000 | 11 | 850 | 2 | 5 | -5 | 700 | -10 | -1 | -5 | . | 2 | -5 | 7 |
| 2826 | NA065 | 36.1312 | 77.8800 | 0.3 | -0.1 | 1 | 10 | 0.5 | 200 | -5 | 10 | 4 | -1000 | 7 | 1400 | 3 | 5 | -5 | 600 | 12 | -1 | -5 | . | 2 | -5 | 5 |
| 2827 | NA066 | 36.0773 | 77.9020 | 0.3 | 0.1 | 1 | 12 | 0.5 | 600 | -5 | -5 | 4 | -1000 | 5 | 1900 | -2 | 150 | 5 | 500 | -10 | -1 | 5 | . | -2 | -5 | 7 |
| 2828 | NA067 | 36.0890 | 77.9222 | 0.7 | 0.1 | 1 | 12 | 1 | 100 | -5 | 7 | 3 | 1000 | 8 | 1450 | 2 | 40 | -5 | 700 | 10 | -1 | -5 | . | 2 | -5 | 7 |
| 2829 | NA068 | 36.0865 | 77.9306 | 0.3 | -0.1 | 1 | 10 | 1 | 200 | -5 | 9 | 7 | 1000 | 10 | 1800 | 3 | 15 | -5 | 700 | 12 | -1 | -5 | . | 2 | 10 | 10 |
| 2830 | NA069 | 36.0713 | 77.9279 | 0.7 | -0.1 |  | 10 | 1 | 100 | -5 | 9 | 6 | 1000 | 10 | 1350 | 2 | -5 | 5 | 700 | 12 | -1 | 10 | . | -2 | -5 | 10 |
| 2831 | NA070 | 36.0683 | 77.9455 | 0.3 | -0.1 | 4 | 12 | 1 | 100 | -5 | 10 | 7 | -1000 | 10 | 600 | 7 | -5 | -5 | 700 | 40 | 1 | -5 | . | 2 | 5 | 7 |

ROANOKE RAPIDS 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2832 | NA071 | 36.0441 | 77.9306 | 0.6 | -0.1 | | 12 | 1 | 100 | -5 | 28 | 4 | -1000 | 6 | 550 | 5 | 30 | -5 | 900 | 55 | -1 | -5 | . | 2 | -5 | 10 |
| 2833 | NA072 | 36.0301 | 77.9612 | 0.5 | -0.1 | 1 | 10 | 0.5 | 200 | -5 | -5 | 4 | -1000 | 6 | 600 | 7 | 25 | -5 | 600 | 17 | -1 | -5 | . | -2 | -5 | 5 |
| 2834 | NA073 | 36.0165 | 77.9353 | 0.7 | -0.1 | 1 | 7 | 0.5 | -100 | -5 | 11 | 4 | -1000 | 10 | 550 | 7 | 100 | 7 | 700 | 22 | -1 | -5 | . | 2 | -5 | 7 |
| 2847 | NA086 | 36.0124 | 77.8116 | 1.2 | -0.1 | 1 | -5 | -0.5 | -100 | -5 | 15 | 2 | 1000 | 6 | 300 | 3 | 80 | -5 | 900 | 17 | -1 | -5 | . | -2 | 5 | 10 |
| 2848 | NA087 | 36.0386 | 77.7985 | 1.2 | 0.1 | 0 | -5 | -0.5 | 100 | -5 | 5 | 3 | 1000 | 6 | 650 | -2 | 80 | -5 | 900 | -10 | -1 | -5 | . | -2 | 35 | 12 |
| 2849 | NA088 | 36.0308 | 77.7674 | 1.4 | -0.1 | 0 | -5 | -0.5 | -100 | -5 | 17 | 2 | -1000 | 6 | 600 | -2 | -5 | -5 | 900 | -10 | -1 | -5 | . | -2 | 10 | 10 |
| 2850 | NA089 | 36.0454 | 77.7566 | 1.2 | 0.1 | | -5 | -0.5 | -100 | -5 | 14 | 2 | 2000 | 8 | 800 | -2 | 50 | -5 | 800 | -10 | -1 | -5 | . | -2 | 10 | 20 |
| 2851 | NA090 | 36.1419 | 77.7427 | 1.1 | 0.2 | | -5 | -0.5 | -100 | -5 | 10 | -2 | 2000 | 6 | 700 | -2 | 30 | -5 | 700 | -10 | -1 | 5 | . | -2 | 20 | 17 |
| 2852 | NA091 | 36.1149 | 77.7831 | 1.3 | 0.3 | | -5 | -0.5 | 100 | -5 | 14 | 3 | 1000 | 7 | 1100 | 2 | 50 | -5 | 700 | 32 | -1 | -5 | . | 2 | 5 | 10 |
| 2853 | NA092 | 36.1017 | 77.7743 | 1.1 | 0.2 | | -5 | -0.5 | -100 | -5 | 9 | -2 | 1000 | 5 | 800 | -2 | -5 | -5 | 1100 | 12 | -1 | -5 | . | -2 | 15 | 17 |
| 2855 | NA094 | 36.0720 | 77.8699 | 1.2 | 0.3 | 0 | 7 | 1 | 200 | -5 | 10 | 4 | 6000 | 7 | 1950 | -2 | 100 | -5 | 700 | 12 | -1 | -5 | . | -2 | 10 | 20 |
| 2856 | NA095 | 36.1073 | 77.8417 | 1.2 | 0.2 | 0 | -5 | 0.5 | 100 | -5 | 18 | 2 | 1000 | 7 | 1250 | 3 | -5 | -5 | 900 | 30 | -1 | -5 | . | 2 | -5 | 12 |
| 2857 | NA096 | 36.1198 | 77.8409 | 1.4 | 0.3 | 1 | -5 | -0.5 | -100 | 5 | 14 | 2 | 1000 | 6 | 1050 | -2 | 5 | -5 | 700 | 20 | -1 | -5 | . | -2 | -5 | 7 |
| 2858 | NA097 | 36.1049 | 77.8143 | 2.9 | 0.1 | | -5 | 0.5 | 100 | -5 | 11 | -2 | 2000 | 6 | 950 | 4 | -5 | -5 | 700 | 22 | -1 | -5 | . | 2 | -5 | 7 |
| 2862 | NO001 | 36.4508 | 77.5979 | 0.4 | 0.1 | 4 | 17 | 0.5 | -100 | -5 | 10 | 3 | 8000 | 6 | 900 | 2 | 5 | -5 | 400 | -10 | -1 | -5 | . | -2 | -5 | 15 |
| 2863 | NO002 | 36.4329 | 77.5455 | -0.1 | -0.1 | 1 | -5 | 0.5 | 100 | 5 | 15 | 4 | 6000 | 6 | 800 | -2 | 15 | -5 | 900 | 12 | 3 | 5 | . | -2 | -5 | 15 |
| 2864 | NO003 | 36.3351 | 77.5283 | 10.0 | 0.4 | 1 | 255 | 3 | 200 | 12 | 8 | 21 | 9000 | 30 | 5000 | -2 | 10 | 17 | 1100 | 27 | 2 | 5 | . | -2 | 10 | 105 |
| 2865 | NO004 | 36.3690 | 77.5232 | 1.4 | 0.3 | 1 | 45 | 0.5 | 100 | -5 | 8 | 4 | 11000 | 7 | 1050 | -2 | 15 | -5 | 500 | -10 | 4 | 10 | . | -2 | -5 | 15 |
| 2866 | NO005 | 36.3347 | 77.4681 | 0.7 | 0.1 | 3 | 60 | 1 | 200 | 5 | 8 | 8 | 10000 | 9 | 3250 | -2 | 10 | -5 | 800 | 10 | 2 | -5 | . | -2 | 5 | 30 |
| 2867 | NO006 | 36.3049 | 77.3834 | 0.7 | 0.2 | 2 | 35 | 1 | 100 | -5 | 6 | 8 | 7000 | 20 | 1000 | -2 | 15 | 5 | 900 | 12 | 2 | 25 | . | -2 | 10 | 20 |
| 2868 | NO007 | 36.2616 | 77.3701 | 0.7 | 0.1 | 1 | 10 | 0.5 | 100 | -5 | 13 | 4 | 8000 | 7 | 1250 | -2 | 10 | 5 | 700 | 207 | 2 | 5 | . | -2 | 5 | 20 |
| 2869 | NO008 | 36.2654 | 77.3302 | -0.1 | -0.1 | 2 | 5 | -0.5 | 100 | 5 | 10 | 3 | 4000 | 5 | 600 | -2 | 15 | -5 | 500 | 20 | 3 | -5 | . | -2 | 15 | 12 |
| 2870 | NO009 | 36.2489 | 77.3387 | 0.7 | -0.1 | 1 | -5 | 0.5 | 200 | -5 | 8 | 5 | 11000 | 5 | 1750 | -2 | 10 | -5 | 500 | 342 | 2 | -5 | . | -2 | 10 | 32 |
| 2871 | NO010 | 36.2429 | 77.3501 | 0.7 | 0.5 | 2 | 187 | 2 | 200 | 22 | 8 | 84 | 9000 | 25 | 1250 | -2 | 5 | 15 | 1100 | 472 | 2 | -5 | . | -2 | -5 | 122 |
| 2872 | NO011 | 36.2274 | 77.3672 | 1.6 | 0.1 | 1 | 107 | 1.5 | 200 | 15 | 8 | 18 | 10000 | 15 | 1500 | -2 | 5 | 10 | 900 | 547 | 4 | -5 | . | -2 | 15 | 87 |
| 2873 | NO012 | 36.2253 | 77.2967 | 0.7 | 0.2 | 2 | 5 | 0.5 | 100 | -5 | 13 | 3 | 6000 | 5 | 850 | -2 | 15 | -5 | 300 | 20 | 3 | 10 | . | -2 | 15 | 7 |
| 2874 | NO013 | 36.2089 | 77.3089 | 0.7 | -0.1 | | 30 | 1 | 100 | -5 | 20 | 7 | 12000 | 7 | 1500 | -2 | 5 | -5 | 800 | 15 | 2 | 5 | . | -2 | 10 | 20 |
| 2875 | NO014 | 36.2512 | 77.2225 | -0.1 | -0.1 | 1 | -5 | 0.5 | 100 | -5 | 16 | 3 | 7000 | 5 | 550 | -2 | 15 | -5 | 500 | -10 | 2 | 15 | . | -2 | -5 | 12 |
| 2876 | NO015 | 36.2806 | 77.1955 | -0.1 | -0.1 | 1 | -5 | 0.5 | -100 | -5 | 9 | 6 | 3000 | 6 | 1150 | -2 | 15 | -5 | 700 | 22 | 1 | -5 | . | -2 | -5 | 17 |
| 2877 | NO016 | 36.4066 | 77.4995 | 0.7 | 0.1 | 1 | 20 | 1 | 100 | -5 | 10 | 9 | 8000 | 15 | 1500 | -2 | 15 | 5 | 900 | 35 | 1 | 10 | . | -2 | -5 | 27 |
| 2878 | NO017 | 36.3840 | 77.4485 | -0.1 | -0.1 | 2 | -5 | 0.5 | -100 | -5 | 15 | 4 | 6000 | 8 | 650 | -2 | 15 | -5 | 700 | 10 | 2 | -5 | . | -2 | 5 | 7 |
| 2879 | NO018 | 36.3433 | 77.3718 | -0.1 | 0.2 | 3 | -5 | 0.5 | -100 | -5 | 13 | 4 | 5000 | 9 | 850 | -2 | 15 | -5 | 900 | 12 | 3 | -5 | . | -2 | -5 | 10 |
| 2880 | NO019 | 36.3114 | 77.3449 | -0.1 | -0.1 | 3 | -5 | 0.5 | 100 | -5 | 10 | 4 | 5000 | 7 | 650 | -2 | 5 | -5 | 700 | -10 | 2 | 5 | . | -2 | 10 | 10 |
| 2881 | NO020 | 36.2945 | 77.3033 | -0.1 | 0.1 | 1 | 10 | -0.5 | -100 | -5 | 10 | 6 | 4000 | 6 | 550 | 2 | 15 | -5 | 500 | 10 | 2 | 20 | . | -2 | 20 | 10 |
| 2882 | NO021 | 36.2851 | 77.2545 | 0.7 | 0.1 | 1 | 42 | 1 | 100 | -5 | 12 | 7 | 7000 | 15 | 1050 | -2 | 10 | -5 | 800 | 12 | 2 | 5 | . | -2 | -5 | 55 |
| 2883 | NO022 | 36.3107 | 77.1900 | 0.7 | -0.1 | 1 | -5 | 0.5 | 100 | 7 | 13 | 5 | 6000 | 7 | 900 | -2 | 15 | 5 | 700 | -10 | 3 | -5 | . | -2 | 5 | 17 |
| 2884 | NO023 | 36.3487 | 77.2153 | -0.1 | 0.1 | 1 | 5 | -0.5 | 100 | -5 | 11 | 4 | 7000 | 7 | 600 | -2 | 20 | -5 | 700 | 10 | 2 | 5 | . | -2 | -5 | 12 |
| 2885 | NO024 | 36.3469 | 77.2571 | -0.1 | -0.1 | | 7 | -0.5 | -100 | -5 | 9 | 2 | 3000 | -5 | 500 | -2 | 10 | -5 | 500 | -10 | 3 | -5 | . | -2 | -5 | 5 |

ROANOKE RAPIDS 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2886 | NO025 | 36.3326 | 77.2813 | -0.1 | -0.1 | 2 | 7 | 0.5 | -100 | -5 | 10 | 2 | 5000 | 5 | 650 | -2 | 10 | -5 | 300 | -10 | 2 | 5 | . | -2 | 5 | 5 |
| 2887 | NO026 | 36.3491 | 77.3345 | -0.1 | 0.1 | 1 | 12 | 0.5 | -100 | -5 | 9 | 4 | 2000 | 5 | 500 | -2 | 5 | -5 | 600 | -10 | 2 | -5 | . | -2 | -5 | 7 |
| 2888 | NO027 | 36.3774 | 77.2736 | -0.1 | 0.2 | 11 | 10 | -0.5 | 100 | -5 | 8 | 2 | 3000 | -5 | 500 | -2 | 10 | -5 | 500 | -10 | 3 | 5 | . | 2 | 10 | 5 |
| 2889 | NO028 | 36.3862 | 77.2345 | -0.1 | -0.1 | 1 | 10 | -0.5 | -100 | -5 | 10 | 9 | 2000 | -5 | 450 | -2 | 10 | -5 | 600 | 12 | 3 | -5 | . | -2 | 5 | 17 |
| 2890 | NO029 | 36.3804 | 77.2073 | -0.1 | 0.1 | 1 | 7 | 0.5 | 100 | -5 | 10 | 4 | 6000 | 6 | 800 | -2 | 5 | -5 | 600 | -10 | 3 | -5 | . | -2 | 5 | 7 |
| 2891 | NO030 | 36.3762 | 77.1618 | -0.1 | 0.1 | 3 | 10 | 0.5 | -100 | -5 | 11 | 3 | 5000 | -5 | 550 | -2 | 10 | -5 | 500 | 40 | 6 | 5 | . | -2 | -5 | 10 |
| 2892 | NO031 | 36.4122 | 77.1704 | -0.1 | -0.1 |  | 7 | 0.5 | -100 | -5 | 13 | 2 | 3000 | 5 | 400 | -2 | 20 | -5 | 500 | 15 | 4 | 25 | . | -2 | 10 | 7 |
| 2893 | NO032 | 36.4138 | 77.2487 | -0.1 | -0.1 |  | 10 | 0.5 | 200 | -5 | 13 | 26 | 3000 | 7 | 700 | -2 | 10 | -5 | 900 | 22 | 4 | 15 | . | -2 | -5 | 37 |
| 2894 | NO033 | 36.4086 | 77.2887 | 0.8 | -0.1 | 2 | 12 | -0.5 | -100 | -5 | 11 | 3 | 2000 | 5 | 1250 | -2 | 10 | -5 | 700 | -10 | 2 | -5 | . | -2 | 10 | 5 |
| 2895 | NO034 | 36.3942 | 77.3062 | -0.1 | 0.1 | 1 | 5 | 0.5 | -100 | -5 | 13 | 5 | 7000 | 6 | 650 | -2 | 15 | -5 | 700 | -10 | 2 | -5 | . | -2 | -5 | 15 |
| 2896 | NO035 | 36.4037 | 77.3732 | -0.1 | 0.1 |  | -5 | 0.5 | -100 | -5 | 9 | 5 | 2000 | 8 | 600 | -2 | 15 | -5 | 900 | -10 | 3 | -5 | . | -2 | -5 | 12 |
| 2897 | NO036 | 36.3920 | 77.4016 | -0.1 | -0.1 | 2 | -5 | 0.5 | -100 | -5 | 9 | 3 | 4000 | 7 | 450 | -2 | 10 | -5 | 200 | -10 | 3 | 15 | . | -2 | -5 | 7 |
| 2898 | NO037 | 36.4316 | 77.3723 | -0.1 | -0.1 |  | -5 | -0.5 | -100 | -5 | 7 | 2 | 1000 | 5 | 600 | 3 | 5 | -5 | 200 | -10 | 1 | 10 | . | -2 | -5 | 5 |
| 2899 | NO038 | 36.4361 | 77.4016 | -0.1 | 0.1 | 1 | -5 | -0.5 | -100 | -5 | 8 | 3 | 2000 | 5 | 400 | -2 | 5 | -5 | 400 | -10 | 5 | -5 | . | -2 | -5 | 5 |
| 2900 | NO039 | 36.4301 | 77.4668 | -0.1 | 0.1 | 3 | -5 | 0.5 | -100 | -5 | 10 | 4 | 1000 | 6 | 550 | -2 | 10 | -5 | 700 | 10 | 1 | 5 | . | -2 | 5 | 10 |
| 2901 | NO040 | 36.4312 | 77.5101 | 0.8 | 0.1 | 1 | -5 | 1 | -100 | -5 | 10 | 8 | 3000 | 18 | 1250 | -2 | 5 | -5 | 1000 | 20 | 3 | -5 | . | -2 | 15 | 27 |
| 2902 | NO041 | 36.4615 | 77.4499 | -0.1 | 0.1 | 1 | 7 | -0.5 | -100 | -5 | 8 | 3 | 1000 | -5 | 450 | -2 | 10 | -5 | 700 | -10 | -1 | 5 | . | -2 | 10 | 5 |
| 2903 | NO042 | 36.4529 | 77.3988 | -0.1 | -0.1 | 1 | 10 | -0.5 | -100 | -5 | 7 | 2 | 2000 | 6 | 500 | -2 | -5 | -5 | 400 | -10 | -1 | -5 | . | -2 | 5 | 5 |
| 2904 | NO043 | 36.4530 | 77.3156 | 0.7 | -0.1 | 2 | . | -0.5 | -100 | -5 | 19 | 2 | 2000 | 7 | 500 | -2 | 30 | -5 | 400 | -10 | -1 | -5 | . | -2 | -5 | 5 |
| 2905 | NO044 | 36.4495 | 77.2498 | 0.9 | -0.1 |  | 12 | -0.5 | -100 | -5 | 6 | -2 | 1000 | 7 | 200 | -2 | -5 | -5 | 400 | -10 | 1 | -5 | . | -2 | 15 | 10 |
| 2906 | NO045 | 36.4444 | 77.2193 | 1.0 | 0.1 |  | 10 | 0.5 | -100 | -5 | 8 | 3 | 2000 | 10 | 600 | -2 | 5 | -5 | 700 | -10 | -1 | 20 | . | -2 | 5 | 20 |
| 2907 | NO046 | 36.4549 | 77.2062 | -0.1 | -0.1 | 1 | 15 | 0.5 | -100 | -5 | 12 | -2 | 3000 | 8 | 400 | -2 | 15 | -5 | 500 | -10 | 2 | -5 | . | -2 | 10 | -5 |
| 2908 | NO047 | 36.4418 | 77.1738 | -0.1 | -0.1 |  | 10 | 0.5 | -100 | 5 | 8 | 2 | 4000 | 9 | 550 | -2 | 15 | -5 | 700 | -10 | -1 | -5 | . | -2 | 10 | 7 |
| 2909 | NO048 | 36.4355 | 77.1378 | -0.1 | 0.3 | 1 | 10 | 0.5 | -100 | -5 | 13 | 4 | 3000 | 14 | 750 | -2 | 35 | -5 | 800 | 15 | -1 | -5 | . | -2 | -5 | 25 |
| 2910 | NO049 | 36.4681 | 77.1422 | -0.1 | 0.1 | 1 | 15 | 0.2 | 400 | -5 | 20 | -2 | 5000 | 11 | 1400 | -2 | 30 | -5 | 700 | -10 | -1 | 5 | . | -2 | 10 | 10 |
| 2911 | NO050 | 36.4771 | 77.1457 | 0.8 | 0.1 | 1 | 5 | 0.5 | -100 | 5 | 6 | -2 | 3000 | 10 | 800 | -2 | -5 | -5 | 700 | -10 | -1 | -5 | . | -2 | 20 | 7 |
| 2912 | NO051 | 36.4941 | 77.1735 | -0.1 | -0.1 | 1 | 27 | 0.5 | 100 | 5 | 11 | 2 | 2000 | 10 | 450 | -2 | -5 | -5 | 700 | -10 | -1 | -5 | . | -2 | -5 | 12 |
| 2913 | NO052 | 36.4958 | 77.2616 | 0.7 | 0.2 | 0 | 5 | 0.5 | -100 | -5 | 11 | 2 | 2000 | 8 | 650 | -2 | -5 | -5 | 700 | -10 | -1 | 5 | . | -2 | 10 | 5 |
| 2914 | NO053 | 36.4975 | 77.3102 | -0.1 | 0.1 | 0 | 7 | 0.5 | -100 | -5 | 5 | -2 | 2000 | 5 | 350 | -2 | -5 | -5 | 700 | -10 | 1 | 5 | . | -2 | -5 | 5 |
| 2919 | NO058 | 36.4591 | 77.5015 | -0.1 | 0.1 | 0 | 10 | -0.5 | -100 | -5 | 5 | 3 | 3000 | 5 | 500 | -2 | -5 | -5 | 700 | -10 | -1 | 5 | . | -2 | 5 | 10 |
| 2927 | NO066 | 36.4911 | 77.6700 | -0.1 | 0.2 | 1 | 5 | 0.5 | -100 | 5 | 10 | 5 | 2000 | 13 | 1100 | 2 | 10 | -5 | 600 | 22 | -1 | 30 | . | -2 | -5 | 17 |
| 2928 | NO067 | 36.4819 | 77.6346 | -0.1 | -0.1 | 0 | 7 | -0.5 | -100 | 5 | 14 | 2 | 1000 | 5 | 600 | -2 | 35 | -5 | 500 | -10 | -1 | -5 | . | -2 | 10 | 10 |
| 4342 | WR001 | 36.4535 | 77.9308 | 0.8 | -0.1 | 1 | 10 | 0.5 | -100 | -5 | 8 | -2 | 10000 | 8 | 500 | -2 | -5 | -5 | 500 | -10 | -1 | -5 | . | 2 | 5 | 12 |
| 4343 | WR002 | 36.3861 | 77.9190 | 2.4 | 0.2 | 0 | 137 | 1.5 | 100 | 7 | 5 | 7 | 18000 | 7 | 1150 | -2 | 15 | 7 | 800 | 10 | -1 | -5 | . | -2 | -5 | 32 |
| 4344 | WR003 | 36.3883 | 77.9362 | 0.8 | -0.1 |  | 7 | 0.5 | 100 | -5 | 7 | -2 | 9000 | 10 | 750 | -2 | 5 | -5 | 400 | -10 | -1 | 20 | . | 2 | -5 | 5 |
| 4345 | WR004 | 36.3679 | 77.9491 | 0.9 | -0.1 |  | 7 | 0.5 | 100 | -5 | 18 | 2 | 4000 | 10 | 2000 | -2 | 5 | -5 | 700 | -10 | -1 | -5 | . | -2 | 10 | 5 |
| 4346 | WR005 | 36.3330 | 77.9374 | 1.1 | -0.1 | 0 | 5 | 0.5 | 100 | -5 | 11 | 2 | 6000 | 9 | 2650 | -2 | 15 | -5 | 900 | -10 | -1 | -5 | . | -2 | 385 | 5 |
| 4347 | WR006 | 36.3121 | 77.9512 | 0.9 | -0.1 | 0 | 5 | 0.5 | 100 | -5 | 29 | 2 | 5000 | 11 | 2400 | -2 | 5 | -5 | 700 | -10 | -1 | -5 | . | 2 | -5 | 7 |

ROANOKE RAPIDS 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4348 | WR007 | 36.2794 | 77.9601 | 0.6 | 0.3 | 0 | 17 | 1 | 200 | 5 | 38 | 10 | 9000 | 14 | 2150 | -2 | 5 | 7 | 600 | -10 | -1 | 10 | . | 2 | -5 | 25 |
| 4356 | WR015 | 36.3105 | 77.9802 | 0.3 | -0.1 | 0 | 7 | 0.5 | 300 | 5 | 33 | 3 | 3000 | 9 | 3250 | 2 | 10 | 5 | 600 | -10 | -1 | -5 | . | -2 | -5 | 12 |
| 4357 | WR016 | 36.3188 | 77.9745 | 0.3 | -0.1 | 0 | 10 | 0.5 | -100 | -5 | 18 | 4 | 2000 | 10 | 600 | -2 | -5 | -5 | 700 | -10 | -1 | -5 | . | -2 | -5 | 5 |
| 4358 | WR017 | 36.3389 | 77.9918 | 0.4 | -0.1 | 2 | 20 | 1 | 200 | 17 | 27 | 8 | 2000 | 9 | 4350 | 2 | 5 | 12 | 600 | -10 | -1 | -5 | . | -2 | -5 | 22 |
| 4361 | WR020 | 36.3479 | 77.9750 | 2.1 | -0.1 |  | 10 | 1 | 100 | 5 | 13 | 3 | 6000 | 10 | 1150 | -2 | -5 | -5 | 800 | -10 | -1 | -5 | . | -2 | 295 | 10 |
| 4362 | WR021 | 36.3783 | 77.9793 | 18.7 | -0.1 | 1 | -5 | 0.5 | 100 | -5 | 14 | 4 | 4000 | 8 | 850 | -2 | -5 | -5 | 700 | -10 | -1 | -5 | . | -2 | -5 | 5 |
| 4363 | WR022 | 36.4044 | 77.9516 | 2.3 | -0.1 | 0 | -5 | 0.5 | -100 | -5 | 12 | 2 | 7000 | 14 | 550 | -2 | -5 | -5 | 600 | -10 | -1 | 15 | . | -2 | -5 | 5 |
| 4395 | WR054 | 36.4542 | 77.9720 | 2.4 | -0.1 | 0 | 12 | 0.5 | 400 | -5 | 10 | 2 | 2000 | 7 | 900 | -2 | 5 | -5 | 700 | -10 | -1 | -5 | . | -2 | 5 | -5 |

EMPORIA 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 x 1000 | Al ppb | Dy ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2719 | HT559 | 36.5384 | 77.0319 | 6.0 | 152 | 0.095 | . | 14500 | . | . | 196 | 12430 | -0.1 | 0.6 | 229 | 0.070 |
| 2720 | HT560 | 36.5182 | 77.0732 | 5.6 | 111 | 0.131 | . | 14700 | . | . | 196 | 12080 | -0.1 | 1.1 | 119 | -0.001 |
| 2721 | HT561 | 36.5273 | 77.0998 | 5.9 | 240 | 0.100 | 73 | 13000 | 45 | 5270 | 284 | 6920 | -0.1 | 0.4 | 152 | 0.070 |
| 3662 | NO544 | 36.5211 | 77.1610 | 6.7 | 100 | 0.125 | . | 1800 | 14 | 1090 | 53 | 6000 | 0.7 | 1.2 | 61 | -0.001 |
| 3663 | NO545 | 36.5231 | 77.2018 | 7.0 | 295 | 0.172 | . | 17900 | 147 | . | 63 | 26130 | 0.7 | 0.5 | 86 | -0.001 |
| 3683 | NO565 | 36.5164 | 77.2374 | 5.3 | 179 | 0.036 | 91 | 7300 | . | . | 51 | 13730 | -0.1 | 0.2 | 193 | 0.010 |
| 3684 | NO566 | 36.5156 | 77.2850 | 6.0 | 110 | 0.060 | 41 | M | 16 | 1670 | 70 | 9990 | -0.1 | 0.5 | 113 | 0.010 |
| 3685 | NO567 | 36.5212 | 77.3275 | 5.7 | 105 | 0.053 | 115 | 5400 | . | . | 105 | 9500 | 0.6 | 0.5 | 367 | 0.020 |
| 3688 | NO570 | 36.5140 | 77.3942 | 5.2 | 39 | 0.029 | . | 2200 | . | . | 45 | 5630 | -0.1 | 0.7 | 74 | -0.001 |
| 3689 | NO571 | 36.5272 | 77.3747 | 6.8 | 280 | -0.002 | 14 | 2100 | . | . | 69 | 6270 | 0.7 | 0.0 | 52 | -0.001 |
| 3696 | NO578 | 36.5009 | 77.3223 | 4.8 | 240 | 0.227 | . | 18500 | 55 | 3610 | 64 | 26280 | -0.1 | 0.9 | 873 | 0.180 |
| 3697 | NO579 | 36.5243 | 77.4498 | 7.5 | 290 | 0.018 | 18 | 10800 | 103 | 8140 | 126 | 17690 | -0.1 | 0.0 | 46 | -0.001 |
| 3698 | NO580 | 36.5252 | 77.4814 | 6.6 | 117 | 0.044 | 99 | 11900 | . | 2800 | 68 | 8670 | -0.1 | 0.3 | 124 | -0.001 |
| 3701 | NO583 | 36.5236 | 77.5370 | 5.4 | 99 | 0.126 | 67 | 7900 | . | . | 55 | 12230 | -0.1 | 1.2 | 129 | -0.001 |
| 3702 | NO584 | 36.5208 | 77.5946 | 5.9 | 44 | 0.015 | 40 | 3300 | . | . | 38 | 7890 | -0.1 | 0.3 | 147 | -0.001 |
| 3704 | NO586 | 36.5192 | 77.6236 | 5.9 | 71 | 0.050 | 39 | 5900 | 15 | 1340 | 41 | 14210 | -0.1 | 0.7 | 124 | -0.001 |
| 3705 | NO587 | 36.5276 | 77.6552 | 5.8 | 50 | 0.005 | 26 | 1900 | . | . | 40 | 15960 | -0.1 | 0.1 | 71 | -0.001 |
| 3706 | NO588 | 36.5041 | 77.6638 | 5.9 | 130 | 0.312 | 37 | 2400 | . | 3600 | 122 | 20360 | 0.4 | 2.4 | 337 | 0.060 |
| 3707 | NO589 | 36.5093 | 77.6963 | 6.4 | 110 | 0.037 | 132 | 5700 | . | 2520 | 39 | 23770 | 0.3 | 0.3 | 137 | -0.001 |
| 3708 | NO590 | 36.5035 | 77.7429 | 6.1 | 91 | 0.043 | . | 11300 | . | . | 42 | 20140 | 0.5 | 0.4 | 536 | -0.001 |
| 3709 | NO591 | 36.5388 | 77.7447 | 5.8 | 79 | 0.006 | 36 | 7400 | 16 | . | 30 | 16390 | -0.1 | 0.0 | 257 | 0.030 |
| 3710 | NO592 | 36.5289 | 77.7286 | 6.8 | 115 | 0.066 | 17 | 3800 | 17 | . | 32 | 14370 | 2.1 | 0.5 | 279 | -0.001 |
| 3711 | NO593 | 36.5068 | 77.7738 | 6.6 | 60 | 0.065 | 14 | 4800 | . | . | 25 | 15080 | 0.6 | 1.0 | 95 | -0.001 |
| 3712 | NO594 | 36.5323 | 77.7826 | 7.2 | 78 | 0.046 | . | 3100 | 78 | 2350 | 37 | 16050 | 2.5 | 0.5 | 124 | -0.001 |
| 3713 | NO595 | 36.5359 | 77.8260 | 6.5 | 75 | 0.031 | 32 | 4100 | 73 | . | 46 | 16440 | 1.2 | 0.4 | 108 | -0.001 |
| 3714 | NO596 | 36.5218 | 77.8755 | 7.0 | 40 | 0.099 | 34 | 4100 | . | . | 37 | 13980 | -0.1 | 2.4 | 152 | -0.001 |
| 5505 | WR522 | 36.5009 | 77.9655 | 6.1 | 40 | 0.051 | 46 | 5700 | . | 470 | 16 | 1350 | -0.1 | 1.2 | 16 | -0.001 |

ROANOKE RAPIDS 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 x 1000 | Al ppb | Dy ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 591 | BR505 | 36.0050 | 77.1285 | 6.3 | 140 | -0.002 | . | 6100 | . | 2230 | 47 | 16300 | -0.1 | 0.0 | 124 | -0.001 |
| 592 | BR506 | 36.0328 | 77.1525 | 6.4 | 130 | 0.010 | 71 | 14300 | . | 2170 | 49 | 20880 | -0.1 | 0.0 | 99 | -0.001 |
| 593 | BR507 | 36.0641 | 77.1778 | 5.5 | 100 | 0.003 | . | 13800 | . | 2440 | 31 | 21140 | -0.1 | 0.0 | 83 | -0.001 |
| 594 | BR508 | 36.0565 | 77.2055 | 6.1 | 115 | -0.002 | . | 11100 | 83 | 1600 | 261 | 20490 | -0.1 | 0.0 | 122 | -0.001 |
| 595 | BR509 | 36.0953 | 77.1925 | 6.1 | 130 | -0.002 | . | 13400 | 24 | 1580 | 69 | 20230 | -0.1 | 0.0 | 127 | -0.001 |
| 596 | BR510 | 36.1251 | 77.1612 | 4.8 | 220 | 0.080 | 120 | 13500 | . | . | 58 | 20990 | -0.1 | 0.3 | 755 | -0.001 |
| 597 | BR511 | 36.1029 | 77.1166 | 5.7 | 80 | 0.050 | . | 8100 | 21 | 2960 | 41 | 17290 | -0.1 | 0.6 | 176 | -0.001 |
| 598 | BR512 | 36.0763 | 77.0898 | 4.6 | 100 | 0.136 | . | 9600 | 42 | 1290 | 39 | 19690 | -0.1 | 1.3 | 388 | 0.100 |
| 599 | BR513 | 36.0550 | 77.0546 | 7.5 | 410 | 0.008 | 38 | 3300 | 884 | . | 35 | 86040 | -0.1 | 0.0 | 156 | -0.001 |
| 600 | BR514 | 36.0356 | 77.0251 | 6.3 | 160 | -0.002 | 42 | 8000 | 47 | . | 118 | 18600 | -0.1 | 0.0 | 129 | -0.001 |
| 602 | BR516 | 36.0499 | 77.0070 | 5.4 | 110 | 0.030 | . | 20100 | . | . | 44 | 24420 | -0.1 | 0.2 | 372 | -0.001 |
| 603 | BR517 | 36.0708 | 77.0428 | 5.5 | 270 | 0.018 | . | 44800 | . | . | 41 | 37690 | -0.1 | 0.0 | 399 | 0.020 |
| 604 | BR518 | 36.1000 | 77.0717 | 6.0 | 110 | 0.128 | 17 | 9600 | 62 | . | 33 | 20020 | -0.1 | 1.1 | 196 | -0.001 |
| 605 | BR519 | 36.1220 | 77.0958 | 5.8 | 310 | 0.079 | 88 | 47600 | 75 | 2810 | 78 | 34880 | 1.9 | 0.2 | 191 | -0.001 |
| 606 | BR520 | 36.1477 | 77.1237 | 5.5 | 90 | 0.014 | 48 | 10200 | 18 | . | 36 | 20630 | -0.1 | 0.1 | 164 | -0.001 |
| 607 | BR521 | 36.1471 | 77.1921 | 5.0 | 50 | 0.023 | 46 | 6500 | . | . | 24 | 16850 | -0.1 | 0.4 | 275 | -0.001 |
| 608 | BR522 | 36.1684 | 77.2218 | 8.6 | 800 | 0.077 | . | 30800 | 1707 | . | 50 | 136800 | -0.1 | 0.1 | 412 | -0.001 |
| 609 | BR523 | 36.1902 | 77.2379 | 4.9 | 110 | 0.008 | 30 | 12100 | 95 | 2450 | 54 | 23490 | -0.1 | 0.0 | 316 | -0.001 |
| 610 | BR524 | 36.2213 | 77.2220 | 7.8 | 420 | -0.002 | 18 | 7100 | 1183 | . | 21 | 75490 | 0.6 | 0.0 | 215 | -0.001 |
| 611 | BR525 | 36.1913 | 77.1848 | 6.3 | 110 | -0.002 | . | 7000 | 18 | . | 64 | 19220 | -0.1 | 0.0 | 98 | -0.001 |
| 612 | BR526 | 36.1680 | 77.1535 | 4.9 | 110 | 0.033 | . | 11400 | 47 | 1940 | 44 | 22170 | -0.1 | 0.3 | 377 | 0.030 |
| 613 | BR527 | 36.2069 | 77.1010 | 6.3 | 1100 | 0.110 | 79 | 142300 | . | . | . | 174900 | 4.1 | 0.1 | 282 | -0.001 |
| 614 | BR528 | 36.1886 | 77.0683 | 6.0 | 80 | -0.002 | . | 6200 | 98 | 1500 | 37 | 16270 | -0.1 | 0.0 | 154 | -0.001 |
| 615 | BR529 | 36.1582 | 77.0606 | 5.9 | 100 | 0.089 | . | 6100 | 34 | 1130 | 24 | 15560 | -0.1 | 0.8 | 165 | 0.030 |
| 616 | BR530 | 36.1281 | 77.0305 | 7.3 | 360 | 0.002 | . | 3700 | 502 | 3390 | 29 | 58080 | -0.1 | 0.0 | 55 | -0.001 |
| 617 | BR531 | 36.0959 | 77.0047 | 4.8 | 60 | 0.036 | 21 | 8100 | 41 | . | 17 | 15980 | -0.1 | 0.6 | 139 | 0.020 |
| 624 | BR538 | 36.1700 | 77.0308 | 6.0 | 160 | 0.039 | . | 27000 | . | 11800 | 19 | 29180 | 0.5 | 0.2 | 371 | -0.001 |
| 625 | BR539 | 36.2374 | 77.0573 | 7.2 | 800 | 0.062 | 33 | 17300 | 117 | 32560 | 128 | 35040 | -0.1 | 0.0 | 77 | -0.001 |
| 626 | BR540 | 36.2322 | 77.0129 | 7.7 | 485 | -0.002 | . | 3500 | 374 | . | . | 86090 | -0.1 | 0.0 | 38 | -0.001 |
| 631 | BR545 | 36.1880 | 77.0087 | 5.8 | 105 | 0.004 | . | 12600 | . | . | 59 | 16990 | -0.1 | 0.0 | 47 | -0.001 |
| 1904 | ED502 | 36.0056 | 77.5543 | 7.1 | 91 | 0.005 | . | 9900 | . | 4490 | 126 | 11410 | 0.3 | 0.0 | 133 | 0.060 |
| 1905 | ED503 | 36.0517 | 77.5465 | 5.8 | 205 | 0.044 | . | 24000 | 113 | 6980 | 89 | 22210 | -0.1 | 0.2 | 140 | 0.030 |
| 1906 | ED504 | 36.0814 | 77.5811 | 7.1 | 283 | -0.002 | . | 3800 | 240 | 4880 | 117 | 38210 | -0.1 | 0.0 | 49 | -0.001 |
| 1907 | ED505 | 36.0873 | 77.6297 | 6.1 | 115 | 0.057 | 45 | 6500 | . | . | 58 | 12900 | -0.1 | 0.5 | 67 | -0.001 |
| 1908 | ED506 | 36.0521 | 77.5975 | 5.5 | 105 | 0.006 | 64 | 9400 | . | . | 72 | 14960 | -0.1 | 0.0 | 59 | -0.001 |
| 1909 | ED507 | 36.0327 | 77.5779 | 5.0 | 51 | 0.022 | 56 | 9100 | 24 | . | 72 | 13890 | -0.1 | 0.4 | 104 | 0.030 |
| 1910 | ED508 | 36.0060 | 77.6211 | 5.0 | 148 | 0.061 | 91 | 14600 | 81 | 3930 | 91 | 12190 | -0.1 | 0.4 | 656 | 0.030 |
| 1964 | ED562 | 36.0111 | 77.7171 | 7.2 | 320 | 0.450 | . | 3800 | 122 | 6770 | 184 | 24370 | 0.3 | 1.4 | 190 | -0.001 |

ROANOKE RAPIDS 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 x 1000 | Al ppb | Dy ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1965 | ED563 | 36.0369 | 77.7375 | 6.1 | 360 | 0.039 | 36 | 38900 | . | 2420 | 102 | 36900 | -0.1 | 0.1 | 179 | 0.030 |
| 1966 | ED564 | 36.0406 | 77.6968 | 6.3 | 112 | 0.042 | . | 12200 | 29 | . | 116 | 17260 | -0.1 | 0.3 | 169 | -0.001 |
| 1968 | ED566 | 36.0285 | 77.6512 | 5.9 | 100 | 0.035 | . | 9700 | . | 1460 | 122 | 15160 | -0.1 | 0.3 | 199 | 0.030 |
| 1969 | ED567 | 36.0558 | 77.6563 | 6.1 | 242 | 0.047 | 30 | 18300 | 23 | 5490 | 115 | 27110 | 1.2 | 0.1 | 122 | -0.001 |
| 1970 | ED568 | 36.0631 | 77.7164 | 5.8 | 190 | 0.064 | 17 | 15100 | . | 1740 | 108 | 18650 | 0.6 | 0.3 | 242 | 0.020 |
| 1971 | ED569 | 36.0806 | 77.6807 | 5.1 | 150 | 0.039 | . | 26200 | . | 2210 | 91 | 27570 | -0.1 | 0.2 | 245 | -0.001 |
| 1972 | ED570 | 36.1336 | 77.6896 | 5.5 | 185 | 0.064 | 37 | 17200 | . | . | 92 | 19180 | -0.1 | 0.3 | 174 | 0.050 |
| 1973 | ED571 | 36.1027 | 77.6526 | 6.2 | 148 | 0.156 | 27 | 5100 | 35 | . | 109 | 16790 | 0.5 | 1.0 | 122 | -0.001 |
| 1976 | ED574 | 36.0351 | 77.4999 | 8.0 | 134 | 0.015 | . | 3800 | 87 | . | 109 | 15860 | -0.1 | 0.1 | 79 | -0.001 |
| 2342 | HA501 | 36.3920 | 77.5978 | 6.2 | 69 | 0.066 | . | 7400 | 33 | 1340 | 63 | 12760 | -0.1 | 0.9 | 438 | 0.120 |
| 2343 | HA502 | 36.3554 | 77.6032 | 6.7 | 60 | 0.029 | . | 4500 | . | . | 65 | 12260 | -0.1 | 0.4 | 94 | -0.001 |
| 2344 | HA503 | 36.3622 | 77.6351 | 6.6 | 89 | 0.050 | 53 | 6100 | 33 | 1340 | 62 | 11280 | 2.2 | 0.5 | 1156 | 0.040 |
| 2345 | HA504 | 36.3578 | 77.6656 | 6.2 | 130 | 0.029 | . | 14700 | . | 2140 | 80 | 16600 | 0.8 | 0.2 | 406 | 0.040 |
| 2346 | HA505 | 36.3969 | 77.6312 | 6.7 | 88 | 0.022 | . | 7300 | 32 | 1780 | 48 | 15100 | -0.1 | 0.2 | 84 | -0.001 |
| 2347 | HA506 | 36.3999 | 77.6742 | 5.8 | 70 | 0.202 | . | 7300 | 29 | 2150 | 63 | 13890 | -0.1 | 2.8 | 342 | 0.030 |
| 2348 | HA507 | 36.3859 | 77.7065 | 6.2 | 50 | 0.039 | . | 6500 | . | . | 50 | 13640 | 0.5 | 0.7 | 134 | -0.001 |
| 2349 | HA508 | 36.3974 | 77.7441 | 6.5 | 49 | 0.032 | . | 4900 | . | . | 45 | 14230 | -0.1 | 0.6 | 97 | -0.001 |
| 2350 | HA509 | 36.3643 | 77.7464 | 6.8 | 75 | 0.005 | . | 7500 | . | 1620 | 58 | 12690 | 0.5 | 0.0 | 123 | -0.001 |
| 2351 | HA510 | 36.3584 | 77.7905 | 6.6 | 41 | 0.046 | 12 | 5000 | 17 | . | 48 | 12530 | 0.4 | 1.1 | 72 | -0.001 |
| 2352 | HA511 | 36.3987 | 77.7887 | 6.2 | 30 | 0.011 | . | 4000 | . | . | 53 | 10900 | 0.4 | 0.3 | 57 | -0.001 |
| 2353 | HA512 | 36.4009 | 77.8328 | 6.3 | 30 | 0.117 | . | 3500 | . | . | 53 | 5210 | -0.1 | 3.9 | 34 | -0.001 |
| 2354 | HA513 | 36.4011 | 77.8602 | 6.5 | 89 | 0.068 | . | 15100 | . | . | 82 | 10200 | -0.1 | 0.7 | 67 | -0.001 |
| 2355 | HA514 | 36.4277 | 77.8694 | 7.0 | 40 | 0.157 | . | 3500 | 20 | . | 54 | 5740 | 0.4 | 3.9 | 37 | -0.001 |
| 2356 | HA515 | 36.4577 | 77.8652 | 7.3 | 54 | 0.174 | 27 | 4300 | . | . | 63 | 6530 | -0.1 | 3.2 | 59 | -0.001 |
| 2357 | HA516 | 36.4998 | 77.8629 | 6.1 | 78 | 0.184 | . | 2700 | 95 | 2200 | 63 | 8640 | 3.2 | 2.3 | 61 | -0.001 |
| 2358 | HA517 | 36.4932 | 77.8292 | 7.0 | 91 | -0.002 | 15 | 2800 | 121 | . | 65 | 8090 | 0.5 | 0.0 | 63 | -0.001 |
| 2359 | HA518 | 36.4625 | 77.8331 | 5.9 | 70 | 0.086 | . | 5300 | 42 | . | 42 | 5870 | 0.6 | 1.2 | 38 | 0.010 |
| 2360 | HA519 | 36.4302 | 77.8283 | 6.1 | 42 | 0.037 | . | 4600 | 20 | . | 32 | 6470 | 0.3 | 0.8 | 33 | -0.001 |
| 2361 | HA520 | 36.4291 | 77.7744 | 5.1 | 42 | 0.028 | . | 6000 | 25 | 1220 | 39 | 5630 | 0.3 | 0.6 | 265 | -0.001 |
| 2362 | HA521 | 36.4335 | 77.7462 | 5.0 | 69 | 0.121 | 62 | 8200 | . | . | 30 | 7960 | -0.1 | 1.7 | 199 | 0.040 |
| 2363 | HA522 | 36.4536 | 77.7876 | 6.7 | 85 | 0.007 | . | 8400 | . | . | 35 | 7220 | 0.6 | 0.0 | 55 | -0.001 |
| 2364 | HA523 | 36.4630 | 77.7459 | 6.8 | 220 | 0.035 | . | 22300 | . | . | 119 | 23520 | -0.1 | 0.1 | 73 | -0.001 |
| 2365 | HA524 | 36.4658 | 77.7054 | 7.2 | 159 | 0.064 | . | 11000 | 39 | . | 46 | 7940 | -0.1 | 0.4 | 54 | -0.001 |
| 2366 | HA525 | 36.4348 | 77.7075 | 7.1 | 49 | 0.031 | . | 3700 | 31 | . | 30 | 5450 | 0.4 | 0.6 | 64 | -0.001 |
| 2367 | HA526 | 36.4229 | 77.6701 | 6.9 | 80 | 0.038 | . | 6000 | 49 | 2580 | 33 | 6660 | -0.1 | 0.4 | 174 | -0.001 |
| 2368 | HA527 | 36.3555 | 77.7030 | 5.7 | 130 | 0.024 | . | 24000 | 48 | . | 38 | 18570 | -0.1 | 0.1 | 75 | -0.001 |
| 2369 | HA528 | 36.3117 | 77.5889 | 6.4 | 230 | 0.048 | . | 17000 | . | . | 48 | 28280 | 0.6 | 0.2 | 93 | -0.001 |
| 2370 | HA529 | 36.2899 | 77.5987 | 6.6 | 320 | 0.032 | . | 38000 | . | 5150 | 139 | 25100 | -0.1 | 0.1 | 165 | 0.060 |

ROANOKE RAPIDS 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 x 1000 | Al ppb | Dy ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2371 | HA530 | 36.3259 | 77.6145 | 5.1 | 153 | 0.088 | 38 | 14000 | 98 | . | 72 | 7630 | -0.1 | 0.5 | 882 | 0.160 |
| 2372 | HA531 | 36.3296 | 77.6511 | 4.8 | 95 | 0.024 | . | 6700 | 23 | 2230 | 55 | 8290 | -0.1 | 0.2 | 373 | 0.040 |
| 2373 | HA532 | 36.2835 | 77.6249 | 6.6 | 125 | 0.031 | 13 | 3100 | 148 | . | 41 | 4940 | 0.3 | 0.2 | 32 | -0.001 |
| 2374 | HA533 | 36.2863 | 77.6642 | 5.7 | 70 | 0.034 | . | 8600 | 53 | . | 38 | 7580 | -0.1 | 0.4 | 395 | 0.040 |
| 2375 | HA534 | 36.3187 | 77.7159 | 4.8 | 155 | 0.229 | 26 | 14300 | 101 | . | 60 | 7510 | -0.1 | 1.4 | 638 | 0.020 |
| 2376 | HA535 | 36.2883 | 77.7131 | 6.0 | 200 | 0.005 | . | 30900 | . | . | 118 | 24280 | -0.1 | 0.0 | 80 | -0.001 |
| 2377 | HA536 | 36.2908 | 77.7457 | 6.6 | 80 | 0.013 | 31 | 5600 | . | . | 53 | 8260 | -0.1 | 0.1 | 42 | -0.001 |
| 2378 | HA537 | 36.3269 | 77.7478 | 6.1 | 58 | 0.017 | . | 7100 | . | . | 48 | 8120 | -0.1 | 0.2 | 47 | -0.001 |
| 2379 | HA538 | 36.2866 | 77.8004 | 6.8 | 199 | 0.032 | 46 | 16200 | 27 | . | 43 | 20030 | -0.1 | 0.1 | 204 | -0.001 |
| 2380 | HA539 | 36.3241 | 77.7844 | 6.8 | 164 | 0.127 | 104 | 17400 | . | 3520 | 72 | 10830 | -0.1 | 0.7 | 53 | -0.001 |
| 2381 | HA540 | 36.3689 | 77.8156 | 6.2 | 35 | 0.048 | 36 | 4400 | . | . | 53 | 6540 | -0.1 | 1.3 | 118 | -0.001 |
| 2382 | HA541 | 36.3603 | 77.8651 | 6.5 | 49 | 0.033 | 18 | 3300 | . | 1830 | 50 | 4310 | -0.1 | 0.6 | 36 | -0.001 |
| 2383 | HA542 | 36.3712 | 77.9025 | 5.8 | 240 | 0.026 | . | 49500 | . | . | 70 | 33460 | -0.1 | 0.1 | 56 | -0.001 |
| 2384 | HA543 | 36.3359 | 77.8943 | 6.1 | 78 | 0.102 | 45 | 7900 | . | . | 52 | 8670 | -0.1 | 1.3 | 49 | -0.001 |
| 2385 | HA544 | 36.3385 | 77.8204 | 6.7 | 68 | 0.052 | 16 | 3900 | . | . | 51 | 4790 | -0.1 | 0.7 | 58 | -0.001 |
| 2386 | HA545 | 36.3308 | 77.8590 | 6.6 | 51 | 0.060 | . | 3400 | . | . | 46 | 5360 | -0.1 | 1.1 | 67 | -0.001 |
| 2387 | HA546 | 36.2930 | 77.8387 | 6.6 | 42 | 0.041 | . | 3800 | 38 | 1210 | 63 | 6850 | -0.1 | 0.9 | 39 | -0.001 |
| 2388 | HA547 | 36.2962 | 77.8964 | 6.8 | 45 | 0.194 | 16 | 2900 | 34 | 1040 | 63 | 3840 | -0.1 | 4.3 | 30 | -0.001 |
| 2389 | HA548 | 36.2835 | 77.9260 | 6.5 | 200 | 0.123 | 40 | 7200 | 54 | . | 83 | 10010 | 1.0 | 0.6 | 63 | -0.001 |
| 2390 | HA549 | 36.2579 | 77.9453 | 7.7 | 102 | 0.501 | . | 2300 | 139 | . | 64 | 4330 | 1.1 | 4.9 | 168 | -0.001 |
| 2391 | HA550 | 36.2463 | 77.8701 | 6.4 | 34 | 0.043 | 36 | 3600 | 40 | . | 82 | 5010 | 0.2 | 1.2 | 105 | -0.001 |
| 2392 | HA551 | 36.2554 | 77.9159 | 6.7 | 65 | 0.191 | 46 | 3000 | 65 | . | 64 | 5130 | -0.1 | 2.9 | 73 | -0.001 |
| 2393 | HA552 | 36.2632 | 77.6358 | 6.5 | 100 | 0.049 | . | 5500 | 31 | 1380 | 69 | 6280 | -0.1 | 0.4 | 81 | -0.001 |
| 2394 | HA553 | 36.2578 | 77.6620 | 6.7 | 81 | 0.051 | 30 | 7500 | 17 | . | 71 | 8010 | 0.5 | 0.6 | 115 | -0.001 |
| 2395 | HA554 | 36.2592 | 77.7115 | 5.7 | 112 | 0.083 | 17 | 12300 | . | 2060 | 85 | 7650 | -0.1 | 0.7 | 220 | -0.001 |
| 2396 | HA555 | 36.2613 | 77.7437 | 6.8 | 42 | 0.042 | . | 3700 | 24 | . | 68 | 5520 | -0.1 | 1.0 | 374 | 0.010 |
| 2397 | HA556 | 36.2567 | 77.7889 | 6.9 | 100 | 0.021 | . | 4100 | . | 3700 | 77 | 6180 | 2.4 | 0.2 | 88 | -0.001 |
| 2398 | HA557 | 36.2684 | 77.8308 | 6.7 | 72 | 0.044 | . | 3100 | 18 | . | 77 | 4380 | -0.1 | 0.6 | 36 | -0.001 |
| 2399 | HA558 | 36.2320 | 77.8830 | 6.6 | 70 | 0.040 | 27 | 4400 | 31 | . | 69 | 4960 | 0.8 | 0.5 | 135 | -0.001 |
| 2400 | HA559 | 36.2326 | 77.9312 | 7.2 | 150 | 0.102 | . | 4000 | 47 | 6760 | 100 | 7310 | 4.0 | 0.6 | 58 | -0.001 |
| 2401 | HA560 | 36.2298 | 77.9726 | 7.5 | 89 | 0.267 | . | 2900 | 27 | 3930 | 70 | 6000 | 0.8 | 3.0 | 63 | -0.001 |
| 2402 | HA561 | 36.2085 | 77.9704 | 6.6 | 27 | 0.050 | 14 | 2300 | . | . | 60 | 4850 | -0.1 | 1.8 | 44 | -0.001 |
| 2403 | HA562 | 36.1900 | 77.9213 | 6.9 | 64 | 0.224 | 38 | 2800 | 25 | . | 69 | 5750 | 0.7 | 3.5 | 60 | -0.001 |
| 2404 | HA563 | 36.1555 | 77.8763 | 7.2 | 78 | 0.027 | 23 | 3300 | 37 | 2590 | 69 | 5470 | 0.9 | 0.3 | 111 | -0.001 |
| 2405 | HA564 | 36.1871 | 77.8783 | 6.6 | 135 | 0.011 | 44 | 11500 | . | 3410 | 79 | 10360 | -0.1 | 0.0 | 78 | -0.001 |
| 2406 | HA565 | 36.1564 | 77.8362 | 7.2 | 42 | 0.032 | . | 3200 | 57 | . | 80 | 6860 | 1.6 | 0.7 | 63 | -0.001 |
| 2407 | HA566 | 36.1501 | 77.8068 | 6.0 | 171 | 0.007 | 235 | 15600 | . | 5120 | 87 | 10690 | 0.7 | 0.0 | 72 | 0.020 |
| 2408 | HA567 | 36.1872 | 77.8270 | 7.0 | 80 | 0.044 | . | 2800 | 53 | 3110 | 66 | 6890 | 1.2 | 0.5 | 48 | -0.001 |

ROANOKE RAPIDS 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 x 1000 | Al ppb | Dy ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2409 | HA568 | 36.2153 | 77.8256 | 7.2 | 140 | 0.035 | . | 5700 | . | 1510 | 72 | 7080 | 0.8 | 0.2 | 182 | -0.001 |
| 2410 | HA569 | 36.2237 | 77.8005 | 7.2 | 136 | 0.063 | . | 4000 | 23 | 1630 | 66 | 7220 | 3.9 | 0.4 | 302 | -0.001 |
| 2411 | HA570 | 36.1943 | 77.7806 | 7.0 | 298 | 0.056 | . | 17500 | 25 | 5090 | 101 | 8900 | -0.1 | 0.1 | 359 | -0.001 |
| 2412 | HA571 | 36.1782 | 77.7521 | 6.0 | 98 | 0.009 | . | 15000 | . | 1390 | 78 | 10700 | -0.1 | 0.0 | 87 | -0.001 |
| 2413 | HA572 | 36.1654 | 77.7155 | 6.1 | 60 | 0.076 | 18 | 6100 | . | . | 81 | 6960 | -0.1 | 1.2 | 167 | -0.001 |
| 2414 | HA573 | 36.1959 | 77.7016 | 7.5 | 255 | 0.243 | . | 2700 | 165 | 5060 | 189 | 10670 | -0.1 | 0.9 | 65 | -0.001 |
| 2415 | HA574 | 36.2240 | 77.7317 | 8.0 | 155 | 0.110 | . | 3000 | 77 | 5420 | 121 | 6760 | 2.2 | 0.7 | 73 | -0.001 |
| 2416 | HA575 | 36.2306 | 77.6956 | 6.5 | 111 | 0.063 | . | 11200 | . | . | 77 | 11410 | 0.8 | 0.5 | 197 | 0.020 |
| 2417 | HA576 | 36.1596 | 77.6856 | 6.4 | 130 | 0.094 | 98 | 13000 | . | . | 103 | 9700 | -0.1 | 0.7 | 332 | 0.170 |
| 2418 | HA577 | 36.2167 | 77.6670 | 6.2 | 120 | 0.083 | . | 11600 | . | . | 81 | 8230 | -0.1 | 0.6 | 69 | -0.001 |
| 2419 | HA578 | 36.2962 | 77.5497 | 6.4 | 450 | 0.022 | 715 | 97000 | . | 11170 | 141 | 28750 | 1.0 | 0.0 | 47 | -0.001 |
| 2420 | HA579 | 36.2842 | 77.5049 | 6.7 | 185 | 0.020 | 32 | 17000 | 26 | 7580 | 160 | 9340 | -0.1 | 0.1 | 40 | -0.001 |
| 2421 | HA580 | 36.2499 | 77.4968 | 6.8 | 200 | 0.037 | 44 | 11900 | 184 | 4640 | 227 | 11960 | -0.1 | 0.1 | 34 | 0.030 |
| 2422 | HA581 | 36.2469 | 77.5399 | 6.2 | 109 | -0.002 | 53 | 14600 | . | . | 79 | 13530 | -0.1 | 0.0 | 31 | -0.001 |
| 2423 | HA582 | 36.2483 | 77.5786 | 5.7 | 52 | 0.082 | . | 4300 | 16 | . | 80 | 5110 | -0.1 | 1.5 | 135 | -0.001 |
| 2424 | HA583 | 36.2210 | 77.5918 | 5.0 | 143 | 0.043 | 30 | 19100 | . | . | 93 | 12440 | -0.1 | 0.3 | 190 | -0.001 |
| 2425 | HA584 | 36.2211 | 77.6205 | 6.7 | 350 | 0.242 | . | 54100 | . | . | 86 | 30880 | -0.1 | 0.6 | 51 | -0.001 |
| 2426 | HA585 | 36.2001 | 77.6390 | 7.2 | 150 | 0.216 | . | 7400 | . | . | . | 3510 | -0.1 | 1.4 | 53 | -0.001 |
| 2427 | HA586 | 36.1967 | 77.5777 | 4.6 | 185 | 0.139 | . | 31400 | . | 2650 | 141 | 15450 | -0.1 | 0.7 | 794 | 0.050 |
| 2428 | HA587 | 36.1860 | 77.5427 | 5.6 | 212 | 0.088 | . | 21300 | . | 2370 | 76 | 19470 | -0.1 | 0.4 | 194 | -0.001 |
| 2429 | HA588 | 36.2221 | 77.5540 | 7.0 | 171 | 0.041 | 22 | 3200 | 306 | 3010 | 213 | 5790 | 1.1 | 0.2 | 95 | -0.001 |
| 2430 | HA589 | 36.2276 | 77.4949 | 6.7 | 81 | 0.027 | . | 5600 | 108 | 1180 | 99 | 6460 | 0.5 | 0.3 | 136 | 0.020 |
| 2431 | HA590 | 36.2630 | 77.4603 | 6.3 | 150 | 0.034 | 27 | 6400 | 24 | 4710 | 108 | 7510 | 0.3 | 0.2 | 70 | 0.020 |
| 2432 | HA591 | 36.2288 | 77.4554 | 6.6 | 65 | 0.063 | . | 4800 | . | 2140 | 81 | 7880 | -0.1 | 0.9 | 46 | -0.001 |
| 2433 | HA592 | 36.2260 | 77.4138 | 6.7 | 370 | 0.053 | 125 | 31700 | . | 4020 | 86 | 28470 | -0.1 | 0.1 | 88 | -0.001 |
| 2434 | HA593 | 36.1820 | 77.4036 | 7.8 | 1390 | 0.166 | 470 | 175400 | 1304 | 9510 | 404 | 248000 | -0.1 | 0.1 | 332 | -0.001 |
| 2435 | HA594 | 36.1887 | 77.3737 | 6.5 | 250 | 0.054 | . | 28700 | . | 10400 | 142 | 18560 | -0.1 | 0.2 | 59 | -0.001 |
| 2436 | HA595 | 36.1773 | 77.3328 | 7.0 | 179 | 0.015 | 19 | 5000 | . | 3400 | 94 | 5970 | 0.5 | 0.0 | 40 | -0.001 |
| 2437 | HA596 | 36.1342 | 77.2971 | 6.5 | 160 | 0.038 | . | 10100 | . | 4140 | 109 | 8690 | -0.1 | 0.2 | 52 | -0.001 |
| 2438 | HA597 | 36.1498 | 77.3398 | 6.3 | 171 | 0.018 | 56 | 10800 | . | 1700 | 119 | 13430 | -0.1 | 0.1 | 47 | -0.001 |
| 2439 | HA598 | 36.1370 | 77.3742 | 6.7 | 180 | 0.035 | . | 22400 | . | . | 89 | 19370 | -0.1 | 0.1 | 52 | -0.001 |
| 2440 | HA599 | 36.1501 | 77.4126 | 6.5 | 70 | 0.028 | 84 | 6100 | 15 | . | 80 | 6230 | -0.1 | 0.4 | 56 | -0.001 |
| 2441 | HA600 | 36.1817 | 77.4561 | 5.2 | 78 | 0.099 | . | 11400 | . | . | 81 | 6610 | -0.1 | 1.2 | 315 | 0.080 |
| 2442 | HA601 | 36.1773 | 77.4830 | 4.9 | 121 | 0.067 | . | 22100 | . | 3800 | 71 | 16020 | 0.7 | 0.5 | 621 | -0.001 |
| 2443 | HA602 | 36.1488 | 77.4635 | 5.5 | 72 | 0.033 | 117 | 7000 | 18 | . | 80 | 6370 | -0.1 | 0.4 | 133 | -0.001 |
| 2444 | HA603 | 36.1521 | 77.6239 | 6.7 | 89 | 0.023 | . | 3600 | 57 | . | 74 | 6590 | -0.1 | 0.2 | 58 | -0.001 |
| 2445 | HA604 | 36.1150 | 77.5793 | 6.2 | 90 | 0.028 | 61 | 10900 | . | 7400 | 114 | 7760 | -0.1 | 0.3 | 63 | -0.001 |
| 2446 | HA605 | 36.1132 | 77.5565 | 5.7 | 90 | 0.024 | . | 8200 | . | 2410 | 122 | 4670 | -0.1 | 0.2 | 148 | 0.090 |

ROANOKE RAPIDS 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 x 1000 | Al ppb | Dy ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2447 | HA606 | 36.1574 | 77.5445 | 6.9 | 145 | 0.030 | . | 16500 | 33 | . | 78 | 12750 | -0.1 | 0.2 | 50 | -0.001 |
| 2448 | HA607 | 36.1452 | 77.5126 | 4.5 | 590 | 0.175 | 562 | 98700 | 352 | 8520 | 244 | 54200 | -0.1 | 0.3 | 4910 | 0.390 |
| 2449 | HA608 | 36.1201 | 77.4879 | 5.1 | 109 | 0.059 | 60 | 18500 | . | . | 67 | 20820 | -0.1 | 0.5 | 207 | -0.001 |
| 2450 | HA609 | 36.1158 | 77.4583 | 6.7 | 110 | 0.023 | 51 | 5300 | 67 | 1190 | 103 | 16150 | -0.1 | 0.2 | 97 | -0.001 |
| 2451 | HA610 | 36.0839 | 77.4703 | 5.3 | 141 | 0.021 | 104 | 24100 | . | . | 89 | 19890 | -0.1 | 0.1 | 253 | 0.020 |
| 2452 | HA611 | 36.0774 | 77.5042 | 7.1 | 221 | 0.023 | . | 5000 | 158 | . | 117 | 28590 | -0.1 | 0.1 | 37 | -0.001 |
| 2453 | HA612 | 36.0458 | 77.4956 | 7.5 | 151 | 0.006 | 18 | 3500 | 153 | 3690 | 106 | 23050 | -0.1 | 0.0 | 35 | -0.001 |
| 2454 | HA613 | 36.0448 | 77.4608 | 5.7 | 79 | 0.045 | 17 | 8800 | . | . | 61 | 15500 | -0.1 | 0.5 | 152 | -0.001 |
| 2455 | HA614 | 36.0161 | 77.4108 | 5.8 | 106 | 0.027 | 14 | 14100 | . | . | 71 | 18910 | -0.1 | 0.2 | 122 | 0.010 |
| 2456 | HA615 | 36.0516 | 77.3753 | 6.0 | 790 | 0.087 | 96 | 104600 | . | 16260 | 217 | 102540 | -0.1 | 0.1 | 89 | -0.001 |
| 2457 | HA616 | 36.0507 | 77.4120 | 6.4 | 171 | -0.002 | . | 26600 | . | 1770 | 95 | 25810 | 0.5 | 0.0 | 39 | -0.001 |
| 2458 | HA617 | 36.0841 | 77.4196 | 6.9 | 118 | 0.038 | 28 | 15900 | . | . | 60 | 18500 | -0.1 | 0.3 | 57 | -0.001 |
| 2459 | HA618 | 36.1111 | 77.4201 | 5.2 | 73 | 0.020 | 49 | 7800 | 19 | . | 63 | 16270 | 0.3 | 0.2 | 154 | 0.040 |
| 2460 | HA619 | 36.1150 | 77.3766 | 5.9 | 70 | 0.033 | 176 | 8000 | . | 2140 | 72 | 13940 | 0.6 | 0.4 | 83 | 0.050 |
| 2461 | HA620 | 36.0860 | 77.3794 | 6.2 | 211 | 0.063 | 53 | 28200 | . | . | 72 | 25250 | 0.5 | 0.3 | 134 | 0.040 |
| 2462 | HA621 | 36.0777 | 77.3425 | 5.8 | 110 | 0.016 | . | 12800 | 38 | 1490 | 99 | 15050 | -0.1 | 0.1 | 100 | 0.020 |
| 2463 | HA622 | 36.1388 | 77.5818 | 6.4 | 120 | -0.002 | 32 | 13700 | . | 1350 | 100 | 11390 | 0.4 | 0.0 | 493 | 0.060 |
| 2464 | HA623 | 36.2016 | 77.6745 | 5.9 | 600 | 0.204 | 152 | 127600 | . | 12660 | 211 | 112720 | -0.1 | 0.3 | 247 | 0.140 |
| 2661 | HT501 | 36.4289 | 77.0700 | 5.4 | 91 | 0.156 | 68 | 14500 | . | . | 76 | 15730 | -0.1 | 1.7 | 684 | 1.220 |
| 2662 | HT502 | 36.4194 | 77.0280 | 6.3 | 145 | 0.015 | 82 | 14400 | 21 | . | 60 | 18660 | 0.5 | 0.1 | 128 | -0.001 |
| 2681 | HT521 | 36.3899 | 77.0682 | 7.1 | 180 | 0.036 | 26 | 17100 | . | . | 122 | 17250 | 0.8 | 0.2 | 301 | 0.040 |
| 2682 | HT522 | 36.3813 | 77.0401 | 7.7 | 208 | 0.040 | . | 3400 | 126 | 5270 | 157 | 16920 | -0.1 | 0.1 | 102 | -0.001 |
| 2683 | HT523 | 36.3467 | 77.0312 | 6.7 | 113 | 0.012 | 33 | 8500 | . | 1370 | 198 | 9760 | -0.1 | 0.1 | 91 | -0.001 |
| 2684 | HT524 | 36.3186 | 77.0306 | 5.4 | 128 | 0.017 | 67 | 20200 | 83 | 4520 | 232 | 13120 | 0.5 | 0.1 | 191 | 0.130 |
| 2693 | HT533 | 36.2785 | 77.0040 | 5.7 | 130 | 0.032 | 97 | 13400 | . | 2270 | 198 | 14780 | -0.1 | 0.2 | 109 | -0.001 |
| 2695 | HT535 | 36.2503 | 77.0262 | 6.2 | 121 | 0.110 | 66 | 7700 | 21 | . | 188 | 10840 | -0.1 | 0.9 | 148 | -0.001 |
| 2696 | HT536 | 36.2766 | 77.0372 | 6.6 | 450 | 0.077 | 79 | 38400 | . | 2660 | 177 | 46250 | 2.0 | 0.1 | 427 | 0.060 |
| 2697 | HT537 | 36.2696 | 77.0583 | 5.2 | 245 | 0.073 | . | 43400 | 81 | 7730 | 210 | 28140 | -0.1 | 0.3 | 842 | 0.510 |
| 2698 | HT538 | 36.2536 | 77.0777 | 7.3 | 330 | 0.012 | 38 | 6200 | 45 | 7250 | 217 | 16230 | -0.1 | 0.0 | 32 | -0.001 |
| 2699 | HT539 | 36.2810 | 77.1204 | 6.1 | 355 | 0.047 | . | 49800 | . | 5410 | 167 | 20470 | 0.8 | 0.1 | 39 | -0.001 |
| 2700 | HT540 | 36.2739 | 77.1516 | 6.7 | 910 | 0.129 | 1144 | 205200 | . | 20760 | 994 | 86040 | -0.1 | 0.1 | 93 | -0.001 |
| 2701 | HT541 | 36.2433 | 77.1164 | 7.2 | 345 | 0.017 | 42 | 7500 | 24 | 4290 | 239 | 11920 | -0.1 | 0.0 | 62 | -0.001 |
| 2702 | HT542 | 36.2471 | 77.1624 | 6.3 | 49 | 0.022 | . | 5700 | 17 | . | 164 | 6700 | 0.6 | 0.4 | 72 | -0.001 |
| 2703 | HT543 | 36.2500 | 77.1997 | 5.7 | 65 | 0.022 | 35 | 11100 | . | . | 172 | 8060 | -0.1 | 0.3 | 52 | -0.001 |
| 2704 | HT544 | 36.3177 | 77.1531 | 6.2 | 72 | 0.028 | 25 | 8300 | 16 | . | 163 | 7710 | 0.4 | 0.3 | 58 | 0.010 |
| 2705 | HT545 | 36.3045 | 77.1161 | 7.4 | 259 | 0.017 | . | 3400 | 122 | 4200 | 190 | 19980 | -0.1 | 0.0 | 49 | -0.001 |
| 2706 | HT546 | 36.3088 | 77.0771 | 6.4 | 141 | 0.035 | . | 18100 | . | . | 189 | 12070 | -0.1 | 0.2 | 47 | -0.001 |
| 2707 | HT547 | 36.3515 | 77.0816 | 7.6 | 270 | 0.005 | 17 | 3700 | 385 | 1460 | 182 | 28900 | -0.1 | 0.0 | 81 | -0.001 |

ROANOKE RAPIDS 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 x 1000 | Al ppb | Dy ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2708 | HT548 | 36.3570 | 77.1105 | 5.8 | 225 | 0.020 | 44 | 33000 | . | 2320 | 171 | 19030 | -0.1 | 0.0 | 78 | -0.001 |
| 2709 | HT549 | 36.3487 | 77.1481 | 6.3 | 147 | 0.012 | . | 18300 | . | . | 152 | 9890 | 0.7 | 0.0 | 66 | -0.001 |
| 2710 | HT550 | 36.4217 | 77.1111 | 6.9 | 160 | 0.060 | 30 | 12900 | 34 | 2990 | 163 | 11250 | -0.1 | 0.3 | 565 | 0.090 |
| 2711 | HT551 | 36.3976 | 77.1077 | 6.3 | 99 | 0.037 | . | 10600 | 18 | 1550 | 168 | 8170 | -0.1 | 0.3 | 138 | -0.001 |
| 2712 | HT552 | 36.4552 | 77.1089 | 7.0 | 290 | 0.025 | 28 | 26100 | . | . | 192 | 26160 | 0.7 | 0.0 | 132 | -0.001 |
| 2713 | HT553 | 36.4385 | 77.0396 | 7.0 | 210 | 0.032 | 49 | 6800 | 137 | 4190 | 258 | 22130 | -0.1 | 0.1 | 79 | -0.001 |
| 2714 | HT554 | 36.4576 | 77.0798 | 8.0 | 260 | 0.027 | . | 7900 | 260 | 1250 | 217 | 42920 | -0.1 | 0.1 | 46 | -0.001 |
| 2715 | HT555 | 36.4822 | 77.0340 | 5.4 | 255 | 0.068 | . | 19300 | 50 | 11350 | 310 | 8690 | -0.1 | 0.2 | 414 | 0.160 |
| 3493 | MR541 | 36.0029 | 77.3603 | 6.0 | 190 | 0.048 | . | 16700 | . | . | 30 | 23640 | 0.6 | 0.2 | 312 | 0.050 |
| 3494 | MR542 | 36.0240 | 77.3298 | 6.4 | 220 | 0.108 | . | 10400 | 124 | 3650 | 62 | 20300 | -0.1 | 0.4 | 184 | 0.020 |
| 3495 | MR543 | 36.0251 | 77.2889 | 6.3 | 200 | 0.025 | . | 13800 | 111 | 2890 | 80 | 22410 | -0.1 | 0.1 | 173 | 0.070 |
| 3496 | MR544 | 36.0072 | 77.3056 | 6.1 | 130 | 0.031 | 13 | 10400 | 80 | 2030 | 51 | 17060 | -0.1 | 0.2 | 221 | 0.030 |
| 3538 | NA505 | 36.0102 | 77.9050 | 7.0 | 61 | -0.002 | . | 4600 | 14 | . | 66 | 3360 | 0.5 | 0.0 | 56 | -0.001 |
| 3558 | NA525 | 36.0532 | 77.8940 | 5.6 | 60 | -0.002 | . | 9200 | . | . | 77 | 7640 | -0.1 | 0.0 | 48 | -0.001 |
| 3559 | NA526 | 36.0456 | 77.9519 | 7.4 | 118 | -0.002 | . | 4500 | . | . | 76 | 6160 | 1.1 | 0.0 | 37 | -0.001 |
| 3568 | NA535 | 36.0095 | 77.9575 | 6.1 | 100 | -0.002 | . | 7700 | . | . | 62 | 6090 | 0.3 | 0.0 | 54 | -0.001 |
| 3575 | NA542 | 36.0083 | 77.7891 | 7.0 | 110 | -0.002 | . | 7600 | . | . | 30 | 4010 | -0.1 | 0.0 | 81 | -0.001 |
| 3576 | NA543 | 36.0528 | 77.7841 | 7.6 | 270 | 0.051 | . | 3500 | 28 | . | 70 | 5540 | -0.1 | 0.1 | 25 | -0.001 |
| 3577 | NA544 | 36.0921 | 77.7367 | 7.1 | 110 | -0.002 | . | 21300 | . | . | 16 | 12040 | -0.1 | 0.0 | 55 | -0.001 |
| 3578 | NA545 | 36.1470 | 77.7407 | 5.6 | 110 | -0.002 | . | 14600 | . | . | 28 | 7170 | -0.1 | 0.0 | 53 | -0.001 |
| 3579 | NA546 | 36.0997 | 77.7925 | 6.4 | 150 | -0.002 | 16 | 19700 | . | . | 30 | 9250 | -0.1 | 0.0 | 66 | -0.001 |
| 3580 | NA547 | 36.1371 | 77.8020 | 4.9 | 410 | 0.154 | . | 53500 | . | 7280 | . | 29120 | -0.1 | 0.3 | 320 | -0.001 |
| 3581 | NA548 | 36.1321 | 77.8563 | 6.1 | 70 | -0.002 | . | 4500 | . | . | 26 | 4630 | -0.1 | 0.0 | 42 | 0.090 |
| 3582 | NA549 | 36.0955 | 77.8343 | 7.4 | 330 | 0.321 | 272 | 8900 | 458 | . | 98 | 16820 | -0.1 | 0.9 | 21 | -0.001 |
| 3583 | NA550 | 36.0544 | 77.8483 | 6.1 | 290 | -0.002 | . | 35900 | . | . | 10 | 26890 | 0.3 | 0.0 | 38 | -0.001 |
| 3584 | NA551 | 36.1034 | 77.8954 | 5.9 | 60 | -0.002 | . | 5800 | . | . | 34 | 4260 | -0.1 | 0.0 | 27 | -0.001 |
| 3585 | NA552 | 36.1412 | 77.9039 | 5.4 | 80 | -0.002 | . | 12200 | . | . | 27 | 8490 | -0.1 | 0.0 | 30 | -0.001 |
| 3586 | NA553 | 36.1397 | 77.9596 | 5.7 | 190 | -0.002 | . | 38300 | . | . | 28 | 22390 | -0.1 | 0.0 | 26 | -0.001 |
| 3587 | NA554 | 36.0959 | 77.9607 | 7.0 | 121 | 0.061 | . | 6600 | 12 | . | 31 | 6610 | -0.1 | 0.5 | 35 | -0.001 |
| 3619 | NO501 | 36.4356 | 77.5734 | 6.5 | 110 | 0.021 | 30 | 14100 | . | . | 164 | 9770 | -0.1 | 0.1 | 53 | -0.001 |
| 3620 | NO502 | 36.4318 | 77.5366 | 7.1 | 450 | 0.026 | . | 10000 | 99 | 7980 | 288 | 22720 | -0.1 | 0.0 | 34 | -0.001 |
| 3621 | NO503 | 36.4154 | 77.4992 | 6.7 | 2190 | 0.574 | 1099 | 583200 | . | 38860 | 3758 | 250200 | -0.1 | 0.2 | 591 | -0.001 |
| 3622 | NO504 | 36.3985 | 77.4846 | 6.8 | 180 | 0.035 | 78 | 17100 | 60 | 5730 | 226 | 14840 | -0.1 | 0.1 | 33 | -0.001 |
| 3623 | NO505 | 36.3778 | 77.4423 | 5.8 | 109 | 0.005 | . | 13500 | . | . | 171 | 14830 | -0.1 | 0.0 | 102 | -0.001 |
| 3624 | NO506 | 36.3661 | 77.4590 | 6.2 | 95 | 0.035 | 35 | 10500 | . | 1270 | 153 | 13470 | -0.1 | 0.3 | 70 | -0.001 |
| 3625 | NO507 | 36.3732 | 77.5140 | 6.5 | 450 | 0.055 | 481 | 77900 | . | . | 227 | 52890 | -0.1 | 0.1 | 83 | -0.001 |
| 3626 | NO508 | 36.3384 | 77.5627 | 6.9 | 121 | 0.016 | 55 | 9000 | 69 | 4540 | 270 | 8790 | -0.1 | 0.1 | 63 | -0.001 |
| 3627 | NO509 | 36.3575 | 77.5451 | 6.6 | 460 | 0.031 | . | 48200 | . | 8760 | 247 | 21510 | -0.1 | 0.0 | 58 | -0.001 |

ROANOKE RAPIDS 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 x 1000 | Al ppb | Dy ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3628 | NO510 | 36.3866 | 77.5363 | 6.3 | 105 | 0.036 | 79 | 13000 | . | 3600 | 146 | 13620 | -0.1 | 0.3 | 51 | 0.010 |
| 3629 | NO511 | 36.3508 | 77.4154 | 5.5 | 105 | 0.028 | . | 14600 | . | 2710 | 192 | 11570 | -0.1 | 0.2 | 333 | 0.190 |
| 3630 | NO512 | 36.3242 | 77.4073 | 6.2 | 190 | 0.020 | 107 | 27300 | . | 4870 | 251 | 20630 | -0.1 | 0.1 | 119 | -0.001 |
| 3631 | NO513 | 36.3218 | 77.3747 | 6.1 | 120 | 0.029 | . | 13000 | 22 | 5020 | 158 | 13840 | 0.4 | 0.2 | 109 | -0.001 |
| 3632 | NO514 | 36.2916 | 77.3711 | 6.4 | 80 | 0.014 | 116 | 16500 | 40 | . | 157 | 14460 | 1.5 | 0.1 | 102 | -0.001 |
| 3633 | NO515 | 36.2603 | 77.3738 | 6.7 | 400 | 0.023 | . | 38600 | . | 9300 | 178 | 43550 | -0.1 | 0.0 | 73 | -0.001 |
| 3634 | NO516 | 36.2512 | 77.3279 | 6.2 | 112 | 0.026 | 31 | 18800 | 43 | 3070 | 133 | 14730 | -0.1 | 0.2 | 57 | -0.001 |
| 3635 | NO517 | 36.2234 | 77.3314 | 6.4 | 139 | 0.022 | 247 | 10900 | . | 3050 | 169 | 9210 | 0.3 | 0.1 | 69 | -0.001 |
| 3636 | NO518 | 36.2378 | 77.2871 | 6.0 | 95 | 0.029 | 57 | 9800 | 38 | 4240 | 161 | 10620 | -0.1 | 0.3 | 53 | -0.001 |
| 3637 | NO519 | 36.2222 | 77.2575 | 6.7 | 139 | 0.038 | 117 | 16400 | . | 1570 | 143 | 11980 | 1.1 | 0.2 | 56 | -0.001 |
| 3638 | NO520 | 36.2519 | 77.2362 | 6.5 | 168 | 0.026 | 29 | 16400 | 70 | 2340 | 408 | 18340 | -0.1 | 0.1 | 60 | -0.001 |
| 3639 | NO521 | 36.2813 | 77.2026 | 6.6 | 110 | 0.072 | . | 13500 | 44 | 2360 | 192 | 12020 | -0.1 | 0.6 | 95 | -0.001 |
| 3640 | NO522 | 36.2877 | 77.2364 | 6.9 | 60 | 0.008 | . | 7200 | 17 | 1140 | 148 | 9030 | 0.7 | 0.1 | 84 | -0.001 |
| 3641 | NO523 | 36.3188 | 77.2482 | 6.9 | 161 | 0.027 | 64 | 24700 | . | 8270 | 332 | 16340 | -0.1 | 0.1 | 72 | -0.001 |
| 3642 | NO524 | 36.2891 | 77.3072 | 5.8 | 150 | 0.034 | . | 22800 | 42 | . | 118 | 15710 | -0.1 | 0.2 | 131 | -0.001 |
| 3643 | NO525 | 36.2814 | 77.3293 | 6.1 | 127 | 0.030 | 17 | 16700 | . | . | 97 | 14270 | -0.1 | 0.2 | 37 | -0.001 |
| 3644 | NO526 | 36.3898 | 77.4016 | 6.6 | 490 | 0.076 | 182 | 66300 | . | 7320 | 240 | 39000 | -0.1 | 0.1 | 54 | -0.001 |
| 3645 | NO527 | 36.3758 | 77.3714 | 5.7 | 61 | 0.027 | 16 | 11900 | . | . | 81 | 10650 | -0.1 | 0.4 | 94 | 0.010 |
| 3646 | NO528 | 36.3483 | 77.3732 | 5.8 | 182 | 0.038 | 40 | 12900 | 21 | . | 87 | 11930 | -0.1 | 0.2 | 32 | -0.001 |
| 3647 | NO529 | 36.3535 | 77.3275 | 5.6 | 101 | 0.070 | . | 13500 | . | . | 73 | 10780 | -0.1 | 0.6 | 168 | 0.020 |
| 3648 | NO530 | 36.3265 | 77.3214 | 6.2 | 71 | 0.056 | 13 | 5300 | 20 | . | 75 | 8500 | -0.1 | 0.7 | 174 | 0.010 |
| 3649 | NO531 | 36.3255 | 77.2902 | 5.9 | 240 | 0.031 | 31 | 36500 | . | . | 82 | 29210 | -0.1 | 0.1 | 73 | -0.001 |
| 3650 | NO532 | 36.3505 | 77.2766 | 5.1 | 80 | 0.012 | 134 | 14300 | . | . | 115 | 11520 | -0.1 | 0.1 | 146 | 0.090 |
| 3651 | NO533 | 36.3557 | 77.2500 | 6.3 | 41 | -0.002 | . | 5700 | 26 | . | 50 | 6130 | -0.1 | 0.0 | 18 | -0.001 |
| 3652 | NO534 | 36.3122 | 77.1989 | 6.6 | 161 | 0.025 | 56 | 18800 | 82 | . | 198 | 17070 | -0.1 | 0.1 | 55 | -0.001 |
| 3653 | NO535 | 36.3476 | 77.1980 | 5.9 | 70 | 0.058 | . | 13400 | . | . | 56 | 9460 | 0.8 | 0.8 | 180 | -0.001 |
| 3654 | NO536 | 36.3829 | 77.1625 | 6.2 | 70 | 0.025 | . | 6100 | 15 | . | 49 | 6080 | -0.1 | 0.3 | 126 | -0.001 |
| 3655 | NO537 | 36.3931 | 77.2025 | 4.9 | 171 | 0.097 | . | 16400 | 74 | . | 83 | 9080 | 0.6 | 0.5 | 1313 | 0.460 |
| 3656 | NO538 | 36.4215 | 77.1976 | 4.8 | 94 | 0.038 | 29 | 11000 | . | 2630 | 65 | 6640 | -0.1 | 0.4 | 557 | 0.030 |
| 3657 | NO539 | 36.4276 | 77.1585 | 5.6 | 105 | 0.043 | 14 | 11200 | . | 2520 | 59 | 9790 | -0.1 | 0.4 | 132 | 0.020 |
| 3658 | NO540 | 36.4535 | 77.1481 | 4.6 | 290 | 0.263 | . | 20100 | 43 | 1990 | 122 | 14210 | -0.1 | 0.9 | 1244 | 0.310 |
| 3659 | NO541 | 36.4876 | 77.1540 | 7.4 | 285 | 0.133 | 41 | 2700 | 148 | 9290 | 99 | 10810 | 0.3 | 0.4 | 53 | -0.001 |
| 3660 | NO542 | 36.4891 | 77.1248 | 4.6 | 191 | 0.337 | . | 9900 | 38 | 11500 | 106 | 14960 | -0.1 | 1.7 | 1682 | 0.350 |
| 3661 | NO543 | 36.4827 | 77.1040 | 6.5 | 72 | 0.030 | 30 | M | 29 | 1660 | 109 | 8550 | -0.1 | 0.4 | 44 | -0.001 |
| 3664 | NO546 | 36.4927 | 77.2050 | 4.8 | 168 | 0.063 | . | 13000 | 26 | 4090 | 102 | 7390 | -0.1 | 0.3 | 1249 | 0.540 |
| 3665 | NO547 | 36.4580 | 77.1953 | 5.1 | 90 | 0.045 | . | 2600 | 27 | 3840 | 102 | 6670 | -0.1 | 0.5 | 811 | 0.150 |
| 3666 | NO548 | 36.4485 | 77.2491 | 4.9 | 93 | 0.093 | 42 | 1200 | . | 3410 | 366 | 8630 | -0.1 | 1.0 | 427 | 0.170 |
| 3667 | NO549 | 36.4162 | 77.2317 | 6.2 | 190 | 0.165 | 120 | 11300 | 32 | 4400 | 120 | 9280 | -0.1 | 0.8 | 1010 | 0.120 |

ROANOKE RAPIDS 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 x 1000 | Al ppb | Dy ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3668 | NO550 | 36.3851 | 77.2432 | 7.6 | 189 | 0.031 | . | 3900 | 66 | 4750 | 106 | 9270 | -0.1 | 0.1 | 54 | -0.001 |
| 3669 | NO551 | 36.3935 | 77.2886 | 5.6 | 68 | 0.021 | . | 10100 | . | 1540 | 56 | 8990 | -0.1 | 0.3 | 173 | -0.001 |
| 3670 | NO552 | 36.3845 | 77.3314 | 4.6 | 151 | 0.032 | . | 18100 | . | 1580 | 72 | 21300 | -0.1 | 0.2 | 607 | 0.220 |
| 3671 | NO553 | 36.4098 | 77.3243 | 4.9 | 68 | 0.025 | 33 | 3300 | 18 | 1460 | 82 | 5970 | 0.5 | 0.3 | 173 | -0.001 |
| 3672 | NO554 | 36.4245 | 77.4452 | 6.5 | 162 | 0.019 | . | 21100 | . | 1390 | 73 | 23270 | -0.1 | 0.1 | 53 | 0.040 |
| 3673 | NO555 | 36.4600 | 77.4505 | 6.6 | 24 | 0.031 | . | 4000 | . | . | 58 | 5070 | -0.1 | 1.2 | 56 | -0.001 |
| 3674 | NO556 | 36.4577 | 77.3813 | 5.1 | 31 | 0.015 | 36 | 7000 | 21 | . | 63 | 6740 | -0.1 | 0.4 | 97 | 0.020 |
| 3675 | NO557 | 36.4409 | 77.3985 | 6.1 | 41 | 0.017 | 75 | 5100 | . | . | 54 | 8020 | -0.1 | 0.4 | 29 | -0.001 |
| 3676 | NO558 | 36.4191 | 77.3996 | 6.0 | 71 | 0.026 | . | 9100 | . | 1350 | 52 | 9540 | -0.1 | 0.3 | 127 | -0.001 |
| 3677 | NO559 | 36.4325 | 77.3773 | 5.8 | 29 | 0.034 | . | 4300 | . | . | 60 | 5650 | -0.1 | 1.1 | 42 | -0.001 |
| 3678 | NO560 | 36.4523 | 77.3234 | 4.6 | 132 | 0.137 | 174 | 13600 | . | 5150 | 80 | 9560 | -0.1 | 1.0 | 1076 | 0.360 |
| 3679 | NO561 | 36.4423 | 77.2875 | 5.7 | 128 | 0.040 | 73 | 14700 | . | 8540 | 148 | 11040 | -0.1 | 0.3 | 192 | -0.001 |
| 3680 | NO562 | 36.4200 | 77.2803 | 6.2 | 50 | 0.031 | 28 | 5200 | 19 | . | 57 | 7900 | 0.3 | 0.6 | 83 | -0.001 |
| 3681 | NO563 | 36.4881 | 77.2355 | 5.2 | 92 | 0.070 | . | 7000 | 21 | 1700 | 58 | 4710 | 0.5 | 0.7 | 255 | -0.001 |
| 3682 | NO564 | 36.4799 | 77.2850 | 5.4 | 130 | 0.057 | . | 13500 | . | 2150 | 74 | 7060 | -0.1 | 0.4 | 446 | 0.060 |
| 3686 | NO568 | 36.4809 | 77.3687 | 5.6 | 220 | 0.066 | . | 24100 | . | . | 56 | 17090 | -0.1 | 0.3 | 100 | 0.020 |
| 3687 | NO569 | 36.4873 | 77.4050 | 6.6 | 235 | 0.028 | . | 30900 | . | . | 53 | 21510 | -0.1 | 0.1 | 113 | -0.001 |
| 3690 | NO572 | 36.4491 | 77.5809 | 5.9 | 37 | 0.041 | 22 | 3200 | . | . | 44 | 5190 | -0.1 | 1.1 | 41 | -0.001 |
| 3691 | NO573 | 36.4917 | 77.6256 | 5.9 | 100 | 0.004 | 30 | 9700 | . | . | 40 | 9680 | -0.1 | 0.0 | 70 | -0.001 |
| 3692 | NO574 | 36.4988 | 77.5826 | 6.0 | 38 | 0.022 | . | 4500 | . | . | 39 | 5190 | -0.1 | 0.5 | 123 | -0.001 |
| 3693 | NO575 | 36.4593 | 77.5340 | 7.0 | 63 | 0.027 | 42 | 5600 | . | 1590 | 95 | 8250 | -0.1 | 0.4 | 267 | 0.170 |
| 3694 | NO576 | 36.4523 | 77.4997 | 6.0 | 150 | 0.031 | . | 23500 | . | . | 87 | 22900 | -0.1 | 0.2 | 174 | 0.140 |
| 3695 | NO577 | 36.4863 | 77.4559 | 6.7 | 70 | 0.019 | . | 2300 | 28 | . | 42 | 15430 | -0.1 | 0.2 | 42 | -0.001 |
| 3699 | NO581 | 36.4895 | 77.4911 | 5.2 | 150 | 0.034 | . | 17900 | . | . | 62 | 16270 | -0.1 | 0.2 | 228 | -0.001 |
| 3700 | NO582 | 36.4937 | 77.5496 | 6.2 | 39 | 0.055 | 36 | 1400 | . | . | 43 | 5790 | -0.1 | 1.4 | 57 | -0.001 |
| 3703 | NO585 | 36.4740 | 77.6138 | 6.6 | 140 | 0.063 | . | 16900 | . | . | 43 | 20110 | 2.2 | 0.4 | 1181 | -0.001 |
| 5506 | WR523 | 36.4662 | 77.9500 | 5.9 | 30 | 0.039 | 42 | 6600 | . | . | 15 | 2880 | -0.1 | 1.3 | 24 | -0.001 |
| 5507 | WR524 | 36.4271 | 77.9580 | 5.9 | 140 | 0.040 | 48 | 5900 | . | 640 | 13 | 1720 | 0.1 | 0.2 | 60 | -0.001 |
| 5510 | WR527 | 36.3746 | 77.9399 | 6.1 | 50 | 0.045 | 67 | 8400 | . | 2280 | . | 6900 | 0.5 | 0.9 | 28 | -0.001 |
| 5511 | WR528 | 36.3292 | 77.9430 | 7.5 | 110 | 0.066 | 49 | 6800 | . | . | 17 | 4890 | -0.1 | 0.6 | 22 | -0.001 |
| 5513 | WR530 | 36.2833 | 77.9540 | 5.6 | 30 | 0.267 | 83 | M | . | M | 39 |  | -0.1 | 8.9 | 19 | 0.060 |