OK as here ——— wqma

Mineral content

Table 14. ~~Descriptions~~ of sediments sampled along Grove Creek and other tributaries to the Saluda River, Anderson and Greenville Counties, S.C.

| Block | Station number | Sample number | Material sampled | Depth of sample below surface of flood plain (feet) | Screening: Plus 1/4 inch Volume ratio | Plus 1/4 inch Composition (percent) | Plus 1/4 inch Maximum intermediate dimension (inches) | Minus 1/4 - plus 1/8 inch Volume ratio | Minus 1/4 - plus 1/8 inch Composition (percent) | Minus 1/8 inch Sand Volume ratio | Minus 1/8 inch Silt and clay Abundance | Weight of concentrate (grams) | Sieve fraction Mesh | Sieve fraction Percent of concentrate | Monazite Percent of concentrate | Monazite Pounds per cubic yard | Ilmenite Percent of concentrate | Ilmenite Pounds per cubic yard | Rutile Percent of concentrate | Rutile Pounds per cubic yard | Zircon Percent of concentrate | Zircon Pounds per cubic yard | Garnet Percent of concentrate | Garnet Pounds per cubic yard | Kyanite Percent of concentrate | Kyanite Pounds per cubic yard | Sillimanite Percent of concentrate | Sillimanite Pounds per cubic yard | Magnetite (percent of concentrate) | Hematite | Staurolite | Tourmaline | Amphibole, pyroxene, biotite | Epidote | Quartz | Others |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | 52-DC-421 | Riffle gravel | | 14 | 40 gr, 30 qtz, 20 fels, 10 sill sch | 2 | 4 | 40 gr, 30 qtz, 20 fels, 10 sill sch | 12 | | 9.0 | 45 | 9 | 3 | | 5 | | – | | – | | 1 | | – | | – | | – | – | – | – | – | – | – | |
| | | | | | | | | | | | | | 100 | 59 | 17 | | 30 | | – | | – | | 3 | | – | | 6 | | – | – | – | – | – | – | 3 | |
| | | | | | | | | | | | | | 170 | 32 | 13 | | 13 | | – | | 1 | | – | | – | | 3 | | – | – | – | – | – | 1 | 1 | |
| | | | | | | | | | | | | | Total | | 33 | .6 | 48 | .9 | – | – | 1 | .02 | 4 | .01 | – | – | 1 | .2 | tr | – | – | – | – | 1 | 4 | |
| B | 2 | 52-DC-412 | Riffle sand | | 8 | 50 qtz, 20 bio sch, 10 gr, 10 fels, 10 sill sch | 3/4 | 2 | 60 qtz, 20 fels, 10 sill sch, 10 bio sch & mica | 23 | | 452.8 | 45 | 13 | tr | | 9 | | – | | – | | – | | – | | – | | – | 1 | – | – | – | tr | 3 | |
| | | | | | | | | | | | | | 100 | 43 | – | | 21 | | – | | 3 | | – | | – | | – | | – | – | – | – | 1 | 1 | 11 | |
| | | | | | | | | | | | | | 170 | 1 | – | | 3 | | – | | 2 | | – | | – | | – | | – | – | – | – | – | 1 | 1 | |
| | | | | | | | | | | | | | Total | | tr | – | 34 | 35.2 | – | – | 5 | 4.5 | | – | – | – | – | – | 31 | 1 | – | – | 1 | 2 | 15 | |
| | 3 | 52-DC-413 | Riffle sand | | 1 | 80 qtz, 10 gr, 10 fels | — | 5 | 75 qtz, 20 fels, 5 gr | 25 | | 49.5 | 45 | 4 | tr | | 4 | | – | | – | | tr | | – | | tr | | – | – | – | – | – | tr | tr | |
| | | | | | | | | | | | | | 100 | 49 | – | | 22 | | – | | – | | – | | – | | – | | – | – | – | – | 2 | 5 | 20 | |
| | | | | | | | | | | | | | 170 | 19 | tr | | 11 | | – | | 1 | | – | | – | | – | | – | – | – | – | – | 1 | – | |
| | | | | | | | | | | | | | Total | | tr | – | 43 | 4.2 | – | – | 1 | .1 | tr | – | – | – | tr | – | 28 | – | – | – | 2 | 6 | 20 | |
| | | 52-DC-414 | Bank sand | 1 | – | —— | — | tr | tr qtz, gr & fels | 25 | 5 | 46.9 | 45 | 2 | – | | 2 | | – | | – | | tr | | – | | – | | – | – | – | – | – | – | – | |
| | | | | | | | | | | | | | 100 | 50 | tr | | 25 | | – | | 2 | | tr | | – | | – | | – | – | – | – | – | – | 3 | |
| | | | | | | | | | | | | | 170 | 39 | – | | 32 | | – | | – | | – | | – | | – | | – | – | – | – | – | 2 | 5 | |
| | | | | | | | | | | | | | Total | | tr | – | 59 | 5.8 | – | – | 2 | .2 | tr | – | – | – | – | – | 31 | – | – | – | – | 2 | 8 | |
| C | 4 | 52-DC-417 | Riffle sand | | 2 | 60 qtz, 20 fels, 10 sill sch, 10 gr | 3/4 | 4 | 70 qtz, 20 fels, 10 sill sch & mica | 24 | | 7.8 | 45 | 17 | – | | 9 | | – | | – | | 1 | | – | | tr | | – | – | – | – | 1 | 2 | 7 | |
| | | | | | | | | | | | | | 100 | 48 | – | | 17 | | – | | 1 | | – | | – | | 3 | | – | – | – | – | 2 | – | 10 | |
| | | | | | | | | | | | | | 170 | 18 | tr | | 16 | | – | | 1 | | – | | – | | tr | | – | – | – | – | – | 1 | – | |
| | | | | | | | | | | | | | Total | | tr | – | 42 | .6 | – | – | 2 | .03 | 1 | .02 | – | – | 3 | .05 | 11 | – | – | – | – | 3 | 21 | |
| | 5 | 52-DC-415 | Riffle gravel | | 16 | 70 sill sch, 20 qtz, 10 gr, fels & bio sch | 2 | 4 | 40 sill sch, 30 qtz, 20 fels, 10 gr, bio sch & mica | 12 | | 174.1 | 45 | 47 | 1 | | 25 | | – | | – | | 16 | | – | | – | | – | – | – | – | – | – | 5 | |
| | | | | | | | | | | | | | 100 | 43 | 4 | | 26 | | – | | – | | 2 | | – | | 3 | | – | – | – | – | – | 1 | 1 | |
| | | | | | | | | | | | | | 170 | 8 | 2 | | 5 | | – | | tr | | tr | | – | | 1 | | – | – | – | – | – | tr | tr | |
| | | | | | | | | | | | | | Total | | 7 | 2.4 | 56 | 19.5 | – | – | tr | – | 18 | 6.2 | – | – | 4 | 1.4 | 2 | – | – | – | – | 1 | 12 | |
| | 6 | 52-DC-416 | Riffle sand | | 10 | 50 qtz, 20 sill sch, 10 fels, 10 bio sch, 10 gr | 2 | 3 | 60 qtz, 20 sill sch, 15 fels, 5 bio sch | 21 | | 116.4 | 45 | 16 | 1 | | 9 | | – | | – | | 5 | | – | | tr | | – | – | – | – | tr | 1 | tr | |
| | | | | | | | | | | | | | 100 | 53 | 5 | | 28 | | – | | 3 | | 2 | | – | | 4 | | – | – | – | – | – | 5 | 4 | |
| | | | | | | | | | | | | | 170 | 20 | 4 | | 12 | | – | | 4 | | tr | | – | | – | | – | – | – | – | – | tr | tr | |
| | | | | | | | | | | | | | Total | | 10 | 2.3 | 49 | 11.4 | – | – | 7 | 1.6 | 7 | 1.6 | – | – | 4 | .9 | 11 | – | – | – | tr | 6 | 6 | |
| | 7 | 52-DC-418 | Riffle gravel | | 20 | 40 qtz, 30 sill sch, 20 gr, 10 fels | 2 | 3 | 50 qtz, 30 sill sch, 15 fels, 5 gr | 13 | | 162.2 | 45 | 46 | 4 | | 28 | | – | | – | | 13 | | – | | – | | – | – | – | – | – | – | 1 | |
| | | | | | | | | | | | | | 100 | 34 | 2 | | 16 | | – | | – | | 1 | | – | | 1 | | – | – | – | – | – | 1 | 13 | |
| | | | | | | | | | | | | | 170 | 3 | tr | | 3 | | – | | tr | | tr | | – | | tr | | – | – | – | – | – | – | tr | |
| | | | | | | | | | | | | | Total | | 6 | 1.9 | 47 | 15.2 | – | – | tr | – | 14 | 4.5 | – | – | 1 | .3 | 11 | – | – | – | – | 1 | 14 | |
| | | 52-DC-419 | Bank sand | 1 | 2 | 60 qtz, 30 sill sch, 10 fels | 1 | 3 | 70 qtz, 20 sill sch, 10 fels | 13 | 10 | 8.1 | 45 | 1 | tr | | 5 | | – | | tr | | 2 | | – | | tr | | – | – | – | – | – | tr | tr | |
| | | | | | | | | | | | | | 100 | 61 | 4 | | 42 | | 1 | | 5 | | 2 | | – | | – | | – | – | – | – | – | 2 | 2 | |
| | | | | | | | | | | | | | 170 | 21 | 5 | | 14 | | – | | 2 | | – | | – | | – | | – | – | – | – | – | – | – | |
| | | | | | | | | | | | | | Total | | 9 | .2 | 61 | 1.0 | 1 | .02 | 1 | .1 | 4 | .01 | – | – | tr | – | 11 | – | – | – | – | 2 | 5 | |
| | 8 | 52-DC-420 | Riffle sand | | 10 | 40 qtz, 30 sill sch, 20 gr, 10 fels | 3/4 | 3 | 40 sill sch, 30 qtz, 20 fels, 10 bio sch & mica | 20 | | 114.8 | 45 | 15 | tr | | 8 | | – | | – | | 1 | | – | | – | | – | – | – | – | – | tr | – | |
| | | | | | | | | | | | | | 100 | 47 | 7 | | 32 | | – | | 1 | | 2 | | – | | tr | | – | – | – | – | – | 2 | – | |
| | | | | | | | | | | | | | 170 | 32 | 5 | | 24 | | – | | 2 | | – | | – | | – | | – | – | – | – | – | 1 | – | |
| | | | | | | | | | | | | | Total | | 12 | 2.8 | 64 | 14.7 | – | – | 3 | .1 | 9 | 2.1 | – | – | tr | – | 6 | – | – | – | – | 3 | [illegible] | |
| D | 9 | 52-DC-475 | Riffle gravel | | 6 | 60 qtz, 30 gr, 10 fels | 3/4 | 5 | 70 qtz, 20 fels, 10 gr | 18 | | 102.7 | 45 | 27 | tr | | 17 | | – | | – | | tr | | – | | – | | – | – | – | – | – | – | – | |
| | | | | | | | | | | | | | 100 | 53 | 2 | | 57 | | 1 | | 3 | | – | | – | | – | | – | – | – | – | – | – | 4 | |
| | | | | | | | | | | | | | 170 | 18 | 1 | | 14 | | – | | 3 | | – | | – | | – | | – | – | – | – | – | – | – | |
| | | | | | | | | | | | | | Total | | 3 | .6 | [illegible] | 15.0 | 1 | .2 | 6 | 1.3 | tr | – | – | – | – | – | – | – | – | – | 1 | – | 14 | |
| | 10 | 52-DC-473 | Riffle gravel | | 14 | 80 qtz, 10 fels, 10 gr & bio sch | 2 | 2 | 70 qtz, 20 fels, 10 gr & bio sch | 16 | | 42.8 | 45 | 36 | 8 | | 23 | | – | | – | | 5 | | – | | – | | – | – | – | – | – | – | tr | |
| | | | | | | | | | | | | | 100 | 52 | 16 | | 28 | | – | | – | | 5 | | – | | – | | – | – | – | – | – | – | – | |
| | | | | | | | | | | | | | 170 | 11 | 3 | | 1 | | – | | 1 | | – | | – | | – | | – | – | – | – | – | – | – | |
| | | | | | | | | | | | | | Total | | 27 | 2.3 | 58 | 5.0 | – | – | 1 | .07 | 10 | .8 | – | – | – | – | 1 | – | – | – | – | – | – | |
| | | 52-DC-474 | Bank gravel | | 13 | 90 qtz, 10 fels | 5 | 0.5 | 90 qtz, 10 fels | 2 | 15 | 6.8 | 45 | 19 | tr | | 17 | | – | | – | | – | | – | | – | | – | – | – | – | – | – | tr | |
| | | | | | | | | | | | | | 100 | 65 | 5 | | 52 | | – | | – | | 1 | | – | | 2 | | – | – | – | – | – | – | – | |
| | | | | | | | | | | | | | 170 | 16 | 4 | | 10 | | – | | 2 | | – | | – | | – | | – | – | – | – | – | – | – | |
| | | | | | | | | | | | | | Total | | 9 | .1 | 81 | 1.2 | – | – | 2 | .03 | 1 | .02 | – | – | – | – | tr | – | – | – | – | – | – | |
| | 11 | 52-DC-476 | Riffle gravel | | 10 | 60 qtz, 20 gr, 10 fels, 10 sill sch | 1 | 5 | 60 qtz, 20 fels, 10 sill sch, 10 bio sch | 18 | | 136.0 | 45 | 33 | – | | 26 | | – | | – | | 1 | | – | | – | | – | – | – | – | – | – | – | |
| | | | | | | | | | | | | | 100 | 56 | – | | 45 | | – | | – | | – | | – | | – | | – | – | – | – | – | – | – | |
| | | | | | | | | | | | | | 170 | 7 | tr | | 7 | | – | | tr | | – | | – | | – | | – | – | – | – | – | – | – | |
| | | | | | | | | | | | | | Total | | tr | – | 30 | [illegible] | – | – | – | .3 | 4 | 1.1 | – | – | – | – | – | – | – | – | – | – | 11 | |
| E | 12 | 52-DC-469 | Riffle sand | | 9 | 60 qtz, 20 fels, 10 gr, 10 bio sch | 3/4 | 4 | 70 qtz, 20 fels, 10 sill sch, bio sch & mica | 20 | | 233.0 | 45 | 16 | tr | | 14 | | – | | – | | tr | | – | | – | | – | – | – | – | – | – | tr | |
| | | | | | | | | | | | | | 100 | 11 | – | | 48 | | – | | – | | – | | – | | – | | – | – | – | – | – | 1 | – | |
| | | | | | | | | | | | | | 170 | 12 | tr | | 11 | | – | | 1 | | – | | – | | – | | – | – | – | – | – | – | tr | |
| | | | | | | | | | | | | | Total | | tr | – | 15 | [illegible] | – | – | 1 | .5 | tr | – | – | – | – | – | 1 | – | – | – | – | 1 | – | |
| | | 52-DC-470 | Bank silt | 2 | – | —— | — | – | —— | 2 | 30 | 6.6 | 45 | tr | – | | – | | – | | – | | – | | – | | – | | – | – | – | – | – | – | – | |
| | | | | | | | | | | | | | 100 | 16 | – | | 14 | | – | | 1 | | tr | | – | | tr | | – | – | – | – | – | – | 1 | |
| | | | | | | | | | | | | | 170 | 84 | 5 | | 15 | | – | | 2 | | – | | – | | 2 | | – | – | – | – | – | – | – | |
| | | | | | | | | | | | | | Total | | 5 | .07 | 89 | 1.2 | – | – | 3 | .04 | tr | – | – | – | 2 | .03 | tr | – | – | – | – | – | 1 | |
| | 13 | 52-DC-477 | Riffle gravel | | 9 | 50 qtz, 20 fels, 20 gr, 10 sill sch & bio sch | 1/2 | 6 | 50 qtz, 20 fels, 20 sill sch, 10 gr & bio sch | 16 | | 132.7 | 45 | 49 | 1 | | 25 | | – | | – | | 4 | | – | | – | | – | – | – | – | 4 | – | 12 | |
| | | | | | | | | | | | | | 100 | 45 | 2 | | 35 | | – | | 3 | | 1 | | – | | – | | – | – | – | – | 3 | – | 1 | |
| | | | | | | | | | | | | | 170 | 5 | 1 | | 4 | | – | | tr | | – | | – | | – | | – | – | – | – | – | – | – | |
| | | | | | | | | | | | | | Total | | 4 | 1.1 | 64 | 17.0 | – | – | 3 | .8 | 5 | 1.3 | – | – | – | – | 1 | – | – | – | 1 | – | 13 | |
| | 14 | 52-DC-478 | Riffle sand | | 1 | 40 qtz, 30 gr, 20 fels, 10 bio sch & sill sch | 1 1/4 | 4 | 50 qtz, 20 fels, 20 gr, 10 sill sch & mica | 28 | | 161.4 | 45 | 16 | – | | 10 | | – | | – | | 1 | | – | | – | | – | – | – | – | 1 | – | 4 | |
| | | | | | | | | | | | | | 100 | 60 | – | | 56 | | – | | – | | – | | – | | 2 | | – | – | – | – | – | – | 2 | |
| | | | | | | | | | | | | | 170 | 23 | tr | | 22 | | – | | 1 | | tr | | – | | – | | – | – | – | – | – | – | – | |
| | | | | | | | | | | | | | Total | | tr | – | 88 | 28.3 | – | – | 1 | .3 | 1 | .3 | – | – | 2 | .6 | 1 | – | – | – | 1 | – | 6 | |
| F | 15 | 52-DC-479 | Riffle sand | | 0.5 | 40 qtz, 30 gr, 20 fels, 10 bio sch | 3/4 | 1 | 50 qtz, 20 gr, 20 fels, 10 bio sch | 30 | | 71.7 | 45 | 7 | – | | 5 | | – | | tr | | tr | | – | | tr | | – | – | – | – | tr | – | 2 | |
| | | | | | | | | | | | | | 100 | 64 | tr | | 52 | | – | | 1 | | 1 | | – | | 1 | | – | – | – | – | 2 | – | 1 | |
| | | | | | | | | | | | | | 170 | 28 | tr | | 25 | | – | | 3 | | – | | – | | tr | | – | – | – | – | – | – | tr | |
| | | | | | | | | | | | | | Total | | tr | – | 82 | 11.7 | – | – | 4 | .6 | 1 | .1 | – | – | 4 | .1 | 1 | – | – | – | 2 | – | 9 | |