



TERRAMIN RESEARCH LABS LTD.

114P/13 676020
Windy Craggy

Ken. Dawson
Here are the breakdowns
by lithology (highly simplified)
you require.
Regards Terry.

ANALYTICAL REPORT

Job # 83-383

Falconbridge Ltd.

Date January 19, 1984

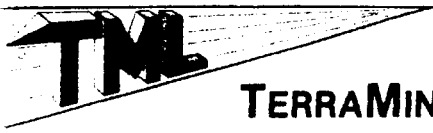
Terry Chandler

Client Project

p1 to 4 entered into WINDY file
31503 - 31658 eliminate all 'SHALE'

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| Sample No. | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Na ₂ O | K ₂ O | Fe ₂ O ₃ | MnO | TiO |
|--------------------------------|------------------|--------------------------------|------|------|-------------------|------------------|--------------------------------|------|------|
| | % | % | % | % | % | % | % | % | % |
| 31501 Shale | 41.5 | 3.59 | 20.8 | .199 | 1.46 | .198 | 12.8 | .534 | .183 |
| 31502 " | 33.8 | 0.76 | 31.2 | .809 | .066 | .108 | 7.61 | .722 | .133 |
| 31503 V | 49.2 | 13.0 | 4.69 | 13.7 | 2.31 | .746 | 9.15 | .129 | 1.27 |
| 31504 Arg+Sulphide | 0.64 | 0.57 | 1.73 | .091 | .004 | .014 | 61.2 | .257 | .017 |
| 31505 V ₂ (tuff) | 32.5 | 14.6 | 1.33 | 2.77 | .015 | .084 | 38.9 | .167 | 1.48 |
| 31506 " " | 41.1 | 12.7 | 6.94 | 5.45 | 1.43 | 1.12 | 17.1 | .337 | .867 |
| 31507 " " | 24.8 | 14.4 | 9.40 | 2.19 | -.001 | -.001 | 37.4 | .244 | 1.80 |
| 31508 " " | 35.5 | 10.0 | 12.2 | 9.12 | 1.22 | 1.20 | 11.5 | .272 | .734 |
| 31509 V | 34.0 | 14.7 | 1.07 | 3.91 | .018 | .101 | 37.9 | .217 | .934 |
| 31510 V ₂ +po+sp | 41.9 | 7.93 | 7.18 | 2.37 | .015 | .581 | 30.3 | .181 | .684 |
| 31511 V ₂ (tuff) | 40.4 | 17.8 | 1.51 | 5.36 | 3.67 | .028 | 25.0 | .145 | 1.65 |
| 31512 | 38.3 | 18.0 | 1.32 | 4.44 | 3.41 | .027 | 27.5 | .120 | 1.50 |
| 31513 V | 38.5 | 16.1 | 1.41 | 4.68 | 2.00 | .013 | 30.3 | .158 | 1.50 |
| 31514 tuff | 54.2 | 4.53 | 11.1 | 1.15 | .005 | .004 | 19.7 | .349 | .217 |
| 31515 shale | 35.1 | 6.04 | 1.86 | 2.82 | -.001 | .111 | 38.5 | .492 | .284 |
| 31516 V | 28.9 | 16.1 | 1.30 | 4.73 | .003 | .024 | 40.3 | .072 | 1.60 |
| 31517 V+py | 41.6 | 12.5 | 2.57 | 4.23 | .003 | .002 | 30.3 | .137 | 1.00 |
| 31518 " " | 38.5 | 16.3 | 1.18 | 5.84 | 2.18 | .012 | 29.2 | .089 | 1.30 |
| 31519 V ₂ (tuff) | 68.9 | 3.21 | 4.07 | 1.69 | .958 | .042 | 14.9 | .272 | .117 |
| 31520 V+po | 26.3 | 18.1 | 1.12 | 10.6 | .276 | .028 | 34.9 | .102 | 1.58 |
| 31521 " " | 47.5 | 13.2 | .779 | 7.53 | .081 | .001 | 25.9 | .067 | 1.20 |
| 31523 V ₂ (tuff)+po | 46.4 | 15.1 | .743 | 7.03 | 2.06 | .007 | 22.5 | .046 | 1.18 |
| 31524 V+po | 38.1 | 16.8 | .981 | 9.98 | 1.78 | .007 | 24.5 | .054 | 1.48 |
| 31525 V ₂ (tuff)+po | 54.3 | 17.0 | 5.93 | 2.49 | 4.26 | 1.83 | 8.01 | .146 | .684 |
| 31526 V+po | 42.1 | 15.9 | .993 | 3.71 | 5.26 | .037 | 24.9 | .044 | .901 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

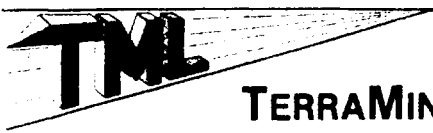
Job # 83-383

Date

Client Project

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| Sample No. | SiO ₂ % | Al ₂ O ₃ % | CaO % | MgO % | Na ₂ O % | K ₂ O % | Fe ₂ O ₃ % | MnO % | TiO ₂ % |
|----------------------|-----------------------|-------------------------------------|----------|----------|------------------------|-----------------------|-------------------------------------|----------|-----------------------|
| 31527 V, tuff + po | 82.4 | 3.40 | .256 | .987 | .369 | .105 | 11.0 | .013 | .117 |
| 31528 " " + po | 70.0 | 4.34 | .270 | 1.91 | .116 | .149 | 19.2 | .028 | .150 |
| 31529 Shale + po | 61.6 | 2.27 | .397 | 1.69 | .098 | .001 | 26.3 | .360 | .117 |
| 31530 Shale | 61.9 | 2.46 | 4.10 | 1.51 | .581 | .014 | 21.5 | .281 | .117 |
| 31531 Shale + po, cy | 35.1 | 3.97 | 1.33 | 2.85 | .008 | .001 | 39.9 | .542 | .183 |
| 31562 Shale + py | 49.3 | 7.37 | 18.5 | 2.09 | .040 | 1.58 | 4.23 | .156 | .217 |
| 31563 | 47.5 | 14.9 | 11.5 | 2.69 | .794 | 3.59 | 7.41 | .107 | .600 |
| 31564 Shale | 55.8 | 12.5 | 10.3 | 2.37 | .270 | 3.24 | 5.45 | .093 | .600 |
| 31565 " | 57.3 | 6.99 | 11.6 | 2.79 | .128 | 1.20 | 9.97 | .155 | .217 |
| 31566 " | 46.4 | 6.99 | 21.1 | 1.81 | .255 | 1.42 | 4.49 | .137 | .334 |
| 31567 " | 49.2 | 4.53 | 21.8 | 1.23 | .187 | .971 | 5.32 | .256 | .167 |
| 31568 " | 35.5 | 2.46 | 30.1 | 1.67 | .024 | .354 | 4.82 | .263 | .150 |
| 31569 " | 44.7 | 7.37 | 20.4 | 2.19 | .360 | 1.43 | 3.73 | .372 | .267 |
| 31570 " | 33.8 | 3.59 | 31.3 | 1.38 | .065 | .753 | 3.82 | .347 | .167 |
| 31571 " | 43.4 | 6.04 | 24.1 | 1.16 | .067 | 1.53 | 3.10 | .203 | .250 |
| 31572 " | 45.4 | 6.80 | 20.8 | 1.19 | .055 | 1.72 | 3.83 | .191 | .267 |
| 31573 " | 69.7 | 15.3 | 1.96 | 1.61 | .119 | 4.64 | 2.56 | .045 | .183 |
| 31574 " | 35.1 | 2.08 | 30.5 | .841 | .015 | .343 | 2.86 | .323 | .150 |
| 31575 " | 53.9 | 6.23 | 9.79 | 1.14 | .047 | 1.69 | 12.4 | .217 | .334 |
| 31576 " + py | 53.9 | 9.45 | 11.2 | 2.59 | .061 | 1.75 | 7.51 | .207 | .484 |
| 31577 V, tuff | 47.1 | 14.6 | 8.87 | 7.56 | 3.49 | .405 | 7.87 | .275 | 1.02 |
| 31578 " | 48.8 | 14.7 | 7.65 | 7.05 | 3.64 | .240 | 8.21 | .196 | .884 |
| 31579 " | 47.9 | 14.9 | 9.43 | 4.78 | 3.59 | 1.20 | 6.66 | .270 | .934 |
| 31580 " | 49.4 | 15.5 | 8.45 | 4.08 | 3.17 | 1.81 | 8.17 | .226 | .934 |
| 31581 " | 46.4 | 14.7 | 10.1 | 4.11 | 3.50 | 1.18 | 8.81 | .261 | .917 |



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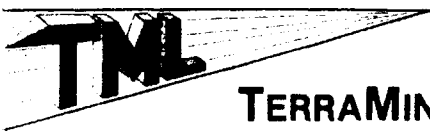
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Date

Client Project

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| Sample No. | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Na ₂ O | K ₂ O | Fe ₂ O ₃ | MnO | TiO ₂ |
|---------------|------------------|--------------------------------|------|------|-------------------|------------------|--------------------------------|------|------------------|
| | % | % | % | % | % | % | % | % | % |
| 31582 V, tuff | 50.7 | 14.6 | 1.40 | 5.59 | 2.67 | .020 | 18.7 | .163 | .917 |
| 31583 " | 43.4 | 15.5 | 6.62 | 5.67 | 4.12 | .124 | 13.5 | .229 | 1.25 |
| 31584 " | 50.7 | 14.9 | 2.55 | 5.42 | 2.99 | .025 | 16.2 | .178 | .967 |
| 31585 " | 48.8 | 14.2 | 6.42 | 4.56 | 5.92 | .064 | 9.74 | .174 | .951 |
| 31586 Shale | 40.4 | 1.13 | 14.3 | 5.34 | .036 | .071 | 14.0 | 1.88 | .100 |
| 31587 " | 37.0 | 6.61 | 13.4 | 2.29 | .545 | .603 | 19.3 | .785 | .250 |
| 31588 " | 41.9 | 3.02 | .748 | 1.76 | -.001 | -.001 | 32.0 | 2.21 | .150 |
| 31589 " | 49.6 | 3.02 | 8.00 | 1.24 | .007 | .028 | 23.3 | 1.37 | .167 |
| 31590 " | 39.4 | 4.34 | 15.5 | 2.29 | .001 | .012 | 16.3 | .591 | .150 |
| 31591 " | 50.1 | 5.10 | 8.83 | 3.32 | -.001 | -.001 | 17.9 | .567 | .150 |
| 31592 V | 45.8 | 20.0 | 2.73 | 4.92 | 2.68 | 2.63 | 12.5 | .125 | .867 |
| 31593 Shale | 43.4 | 8.12 | 1.07 | 1.99 | .007 | .011 | 32.5 | .678 | .517 |
| 31594 " rpy | 39.6 | 5.29 | 7.61 | 2.35 | .010 | .049 | 27.7 | 1.78 | .384 |
| 31595 Shale | 30.4 | 2.83 | 31.9 | .912 | .532 | .140 | 3.93 | .423 | .133 |
| 31596 " | 42.1 | 8.12 | 22.0 | 1.35 | .377 | 1.29 | 3.25 | .198 | .434 |
| 31597 " | 35.1 | 3.21 | 27.7 | 1.10 | .019 | .395 | 4.39 | .328 | .133 |
| 31598 " | 42.1 | 4.72 | 17.2 | 1.84 | .003 | -.001 | 15.2 | .970 | .133 |
| 31599 " | 34.7 | 2.83 | 27.3 | 1.24 | .133 | .060 | 6.78 | .981 | .133 |
| 31600 " | 24.2 | 2.46 | 24.5 | .973 | .003 | .037 | 26.2 | .962 | .183 |
| 31601 " | 61.2 | 11.3 | 6.06 | 2.16 | 4.15 | .321 | 6.64 | .148 | .150 |
| 31602 " | 44.9 | 8.12 | 15.1 | 3.65 | 2.16 | .076 | 7.28 | .278 | .450 |
| 31630 " | 70.2 | 11.3 | 4.78 | 1.64 | 4.80 | .568 | 2.32 | .101 | .117 |
| 31631 " | 66.7 | 4.91 | 5.61 | 1.21 | 1.12 | .492 | 10.7 | .208 | .317 |
| 31632 V | 47.7 | 14.7 | 9.75 | 4.86 | 3.83 | 1.01 | 8.31 | .254 | .767 |
| 31633 Shale | 40.0 | 3.97 | 26.6 | 1.05 | .816 | .694 | 4.38 | .409 | .150 |



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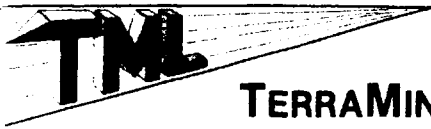
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Client Project

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| Sample No. | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Na ₂ O | K ₂ O | Fe ₂ O ₃ | MnO | TiO ₂ |
|------------------|------------------|--------------------------------|------|------|-------------------|------------------|--------------------------------|------|------------------|
| | % | % | % | % | % | % | % | % | % |
| 31634 Shale | 36.4 | 6.80 | 21.0 | 2.82 | 1.10 | 1.21 | 6.44 | .398 | .267 |
| 31635 " | 59.7 | 4.72 | 10.1 | 3.07 | .007 | .013 | 10.4 | .210 | .217 |
| 31636 ✓ | 62.5 | 8.50 | .210 | 5.79 | .268 | .011 | 17.0 | .110 | .167 |
| 31637 " | 44.5 | 15.1 | 3.92 | 8.17 | 3.36 | .029 | 16.6 | .261 | .967 |
| 31638 " | 61.8 | 6.99 | .165 | 3.48 | .900 | .372 | 21.3 | .084 | .150 |
| 31639 " | 48.1 | 13.0 | 2.46 | 11.5 | .793 | .012 | 16.7 | .192 | .784 |
| 31640 " | 43.9 | 14.2 | 1.86 | 13.9 | .187 | .169 | 15.7 | .170 | 1.08 |
| 31641 ✓, ruff | 47.1 | 15.1 | 6.24 | 11.2 | 3.59 | .119 | 7.84 | .177 | .851 |
| 31642 " | 46.2 | 14.9 | 8.37 | 7.99 | 4.19 | .446 | 7.88 | .216 | .801 |
| 31643 " | 46.0 | 15.9 | 1.52 | 12.2 | 2.43 | .036 | 14.9 | .195 | .784 |
| 31644 " | 46.0 | 15.3 | 7.88 | 6.93 | 4.64 | .181 | 10.0 | .287 | .767 |
| 31645 " | 47.3 | 16.6 | 3.30 | 9.30 | 4.43 | .067 | 11.2 | .165 | .884 |
| 31646 " | 46.0 | 18.1 | 2.24 | 9.57 | 5.51 | .128 | 11.5 | .125 | .834 |
| 31647 " | 48.8 | 16.3 | .949 | 9.28 | 4.26 | .020 | 15.4 | .110 | 1.08 |
| 31648 " | 44.5 | 14.9 | 6.77 | 9.83 | 3.69 | .084 | 10.5 | .261 | .717 |
| 31649 " | 48.3 | 15.7 | 1.39 | 11.7 | 3.64 | .031 | 11.8 | .098 | .834 |
| 31650 " | 39.4 | 17.0 | .853 | 16.5 | 1.94 | .011 | 16.3 | .111 | .967 |
| 31651 ✓ | 64.8 | 5.10 | 2.71 | 4.44 | .814 | .125 | 15.7 | .136 | .234 |
| 31652 ✓ + po, cp | 72.3 | 3.59 | 1.96 | 1.31 | .748 | .020 | 15.7 | .089 | .200 |
| 31653 ✓ | 46.4 | 14.4 | .700 | 6.96 | 1.56 | .006 | 25.3 | .059 | .867 |
| 31654 ✓ + po | 58.4 | 1.70 | .644 | 1.18 | .013 | -.001 | 31.9 | .048 | .083 |
| 31655 " " | 28.9 | 4.72 | 2.25 | 3.20 | .008 | .006 | 42.5 | .311 | .317 |
| 31656 " " | 66.1 | 0.76 | .625 | .335 | .026 | .007 | 23.9 | .052 | .067 |
| 31657 " " | 58.6 | 2.27 | 1.10 | 1.10 | -.001 | -.001 | 27.7 | .116 | .117 |
| 31658 ✓ | 45.4 | 13.2 | .560 | 6.28 | .081 | -.001 | 29.0 | .067 | .817 |



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| Sample No. | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Na ₂ O | K ₂ O | Fe ₂ O ₃ | MnO | TiO ₂ |
|--------------------|------------------|--------------------------------|------|------|-------------------|------------------|--------------------------------|------|------------------|
| | % | % | % | % | % | % | % | % | % |
| 31659 V+po | 62.2 | 2.64 | .281 | .671 | .022 | -.001 | 28.0 | .025 | .117 |
| 31660 V+py | 24.4 | 12.5 | 2.45 | 5.32 | .018 | .013 | 42.5 | .186 | .751 |
| 31661 V+po | 59.3 | 0.19 | 4.03 | 4.89 | .144 | .090 | 26.5 | .223 | .017 |
| 31662 V | 45.6 | 13.2 | .504 | 8.37 | -.001 | .002 | 25.2 | .059 | 1.08 |
| 31663 M | 29.5 | 14.0 | .564 | 8.52 | 1.59 | -.001 | 35.0 | .057 | 1.05 |
| 31664 " +po | 31.2 | 15.7 | .621 | 11.5 | .257 | -.001 | 31.8 | .065 | 1.10 |
| 31665 " | 25.7 | 17.0 | .679 | 11.2 | .018 | -.001 | 34.9 | .090 | 1.28 |
| 31666 Shale+po, cp | 37.9 | 3.78 | 25.7 | 1.09 | .066 | .149 | 7.64 | .816 | .234 |
| 31667 V, tuff | 48.6 | 14.2 | .944 | 6.48 | 2.74 | .006 | 20.2 | .102 | 1.03 |
| 31678 V | 25.7 | 12.1 | .532 | 8.04 | .150 | .006 | 39.9 | .181 | .617 |
| 31679 V | 46.6 | 12.7 | .547 | 1.44 | 5.77 | .036 | 27.5 | .023 | .567 |
| 31680 V+po | 41.7 | 10.8 | 1.40 | .375 | 5.92 | .029 | 30.9 | .088 | 1.78 |
| 31681 " | 33.6 | 5.29 | 6.77 | 3.68 | .140 | .375 | 38.2 | .421 | .367 |
| 31682 " | 45.6 | 7.56 | .951 | 1.67 | 2.17 | .002 | 30.3 | .811 | .400 |
| 31683 " | 34.2 | 12.7 | .670 | 6.08 | .546 | .001 | 37.0 | .225 | .517 |
| 31684 V | 42.1 | 4.53 | 5.96 | 1.97 | .057 | .016 | 33.8 | .538 | .300 |
| 31685 V | 31.4 | 8.50 | 2.69 | 6.38 | .009 | .002 | 40.2 | .321 | .434 |
| 31686 V | 49.2 | 13.8 | 2.52 | 6.15 | 3.41 | .012 | 16.2 | .110 | 2.85 |
| 31687 V | 58.4 | 3.97 | 6.56 | 3.58 | .059 | .007 | 19.0 | .285 | .133 |
| 31688 V, tuff | 47.1 | 14.9 | 2.60 | 6.95 | 3.41 | .013 | 17.6 | .161 | 3.02 |
| 31689 V | 43.4 | 12.5 | 3.62 | 5.59 | 2.83 | .019 | 23.9 | .185 | 2.44 |
| 31690 V | 47.5 | 13.6 | 8.81 | 4.33 | 4.46 | .025 | 10.4 | .201 | 2.62 |
| 31691 V, tuff | 43.9 | 15.9 | 3.23 | 6.22 | 4.02 | .019 | 17.5 | .173 | 3.34 |
| 31692 " " | 51.9 | 13.4 | 2.22 | 5.02 | 3.21 | .007 | 17.3 | .151 | 2.30 |
| 31693 " " | 50.9 | 15.9 | 3.60 | 6.86 | 4.74 | .053 | 11.4 | .145 | .617 |



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| Sample No. | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Na ₂ O | K ₂ O | Fe ₂ O ₃ | MnO | TiO ₂ |
|---------------|------------------|--------------------------------|------|------|-------------------|------------------|--------------------------------|------|------------------|
| | % | % | % | % | % | % | % | % | % |
| 31694 ✓ | 48.1 | 14.9 | 8.66 | 5.64 | 4.97 | .112 | 7.82 | .164 | .751 |
| 31695 ✓ | 47.9 | 15.7 | 5.92 | 9.28 | 4.39 | .124 | 8.58 | .161 | .534 |
| 31696 ✓ | 45.8 | 15.3 | 7.51 | 8.31 | 4.30 | .076 | 9.02 | .183 | .417 |
| 31697 ✓ + po | 45.8 | 12.5 | .473 | 3.61 | 3.19 | .840 | 74.2 | .076 | .450 |
| 31698 ✓ + py | 43.0 | 17.8 | .708 | 14.5 | 2.70 | .236 | 13.5 | .068 | .801 |
| 31699 ✓, tuff | 55.2 | 8.12 | 3.79 | 7.25 | .059 | .129 | 12.1 | .410 | .167 |
| 31700 " " | 44.1 | 17.8 | 1.32 | 6.00 | 3.90 | 1.95 | 15.2 | .250 | .834 |
| 31701 ✓ | 52.3 | 16.8 | 1.39 | 7.20 | 4.06 | 1.93 | 9.95 | .186 | 1.03 |
| 31702 Shale | 66.5 | 3.59 | 1.05 | 3.81 | .066 | .045 | 15.3 | .092 | .167 |
| 31703 ✓ + py | 48.8 | 14.6 | 9.88 | 5.29 | 2.22 | 2.21 | 6.31 | .167 | .717 |
| 31704 " " | 49.8 | 14.7 | 1.89 | 11.2 | 1.40 | 1.36 | 11.5 | .168 | .651 |
| 31705 Shale | 49.6 | 6.61 | 2.83 | 8.47 | .039 | .007 | 19.5 | .294 | .183 |
| 31706 " | 56.0 | 3.21 | 1.69 | 8.49 | .011 | .001 | 19.6 | .309 | .117 |
| 31707 ✓, tuff | 38.7 | 14.6 | 1.90 | 12.6 | 1.08 | 1.09 | 17.6 | .250 | .817 |
| 31708 Shale | 33.8 | 5.10 | 28.4 | 2.40 | 1.14 | .394 | 3.33 | .063 | .167 |
| 31709 " | 29.1 | 3.59 | 33.2 | 2.19 | .148 | .615 | 2.45 | .103 | .200 |
| 31710 " | 80.0 | 3.02 | 1.54 | 3.80 | .061 | .025 | 7.29 | .079 | .100 |
| 31711 ✓ | 52.0 | 14.6 | 4.39 | 5.74 | 4.49 | 1.30 | 12.0 | .138 | 1.12 |
| 31712 ✓ | 52.2 | 16.3 | 7.08 | 6.07 | 4.91 | 1.36 | 8.45 | .103 | .851 |
| 31713 ✓ | 50.3 | 15.7 | 5.01 | 7.31 | 3.83 | 1.57 | 11.2 | .117 | 1.08 |
| 31714 ✓ | 48.6 | 15.9 | 3.83 | 8.42 | 3.48 | .951 | 11.7 | .134 | .934 |
| 31715 ✓ | 46.8 | 15.1 | 9.37 | 3.53 | 5.37 | 1.13 | 7.78 | .139 | .967 |
| 31716 ✓ | 49.9 | 12.1 | 2.76 | 3.98 | 4.21 | .988 | 14.9 | .081 | .600 |
| 31717 Shale | 36.6 | 3.02 | 27.3 | 2.37 | .182 | .007 | 4.85 | .229 | .183 |
| 31718 " | 36.8 | 4.34 | 27.8 | 2.11 | 1.35 | .028 | 2.66 | .196 | .250 |



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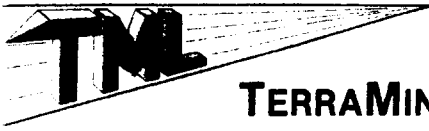
Job # 83-383

Date

Client Project

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| Sample No. | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Na ₂ O | K ₂ O | Fe ₂ O ₃ | MnO | TiO ₂ |
|---------------------------|------------------|--------------------------------|------|------|-------------------|------------------|--------------------------------|------|------------------|
| | % | % | % | % | % | % | % | % | % |
| 31719 <i>Shale</i> | 47.1 | 6.99 | 19.0 | 2.70 | 2.31 | .098 | 3.76 | .116 | .384 |
| 31720 " | 42.4 | 3.78 | 23.6 | 1.69 | 1.17 | .096 | 4.85 | .145 | .234 |
| 31721 " | 37.7 | 3.02 | 29.4 | 1.23 | .960 | .053 | 2.65 | .146 | .200 |
| 31722 " | 35.5 | 2.46 | 30.5 | 1.84 | .376 | .067 | 2.15 | .160 | .183 |
| 31723 " | 42.1 | 4.53 | 22.4 | 1.27 | 1.71 | .131 | 4.52 | .114 | .234 |
| 31724 " | 37.9 | 3.59 | 29.0 | 1.38 | 1.08 | .104 | 2.09 | .143 | .217 |
| 31725 " | 38.7 | 3.97 | 23.1 | 2.27 | .084 | .053 | 7.95 | .302 | .250 |
| 31726 " | 26.7 | 4.91 | 27.3 | 4.05 | .011 | .007 | 9.25 | .487 | .334 |
| 31727 " | 35.7 | 1.70 | 31.5 | 1.26 | .146 | .051 | 2.67 | .320 | .117 |
| 31728 <i>V</i> | 47.5 | 15.3 | 5.74 | 9.45 | 2.82 | .909 | 7.69 | .115 | .801 |
| 31729 " | 47.7 | 16.4 | 3.51 | 9.82 | 4.42 | .139 | 8.84 | .107 | .851 |
| 31730 " | 50.3 | 16.6 | 1.16 | 9.73 | 4.15 | .070 | 13.0 | .102 | .801 |
| 31731 " | 59.0 | 1.89 | 2.95 | 1.02 | .121 | .124 | 27.2 | .229 | .083 |
| 31732 <i>Shale</i> | 31.4 | 3.40 | 2.85 | 3.28 | .013 | .070 | 40.8 | 1.12 | .234 |
| 31733 <i>V</i> | 46.0 | 15.1 | .687 | 8.92 | 2.06 | .023 | 20.6 | .081 | .751 |
| 31734 <i>V, tuff</i> | 44.1 | 2.46 | 16.0 | 4.33 | .158 | .275 | 17.7 | .279 | .050 |
| 31735 <i>V</i> | 42.8 | 1.32 | 11.0 | 4.44 | .154 | .500 | 29.5 | .480 | .067 |
| 31736 " | 47.9 | 2.08 | 8.20 | 5.29 | .344 | .737 | 27.6 | .292 | .067 |
| 31737 <i>V, tuff + po</i> | 46.8 | 6.80 | 1.29 | 4.05 | .036 | .084 | 32.9 | .050 | .384 |
| 31738 <i>V</i> | 39.4 | 14.6 | .634 | 6.91 | 1.82 | .016 | 29.5 | .080 | 1.02 |
| 31739 <i>" + py</i> | 40.6 | 15.5 | .651 | 6.57 | 1.94 | .016 | 28.2 | .080 | 1.22 |
| 31740 <i>" + po</i> | 47.9 | 13.8 | .887 | 3.50 | 5.19 | .027 | 23.2 | .049 | .734 |
| 31741 <i>Tuff orsed.</i> | 28.7 | 6.04 | 10.4 | 6.50 | .011 | .007 | 29.7 | .484 | .300 |
| 31742 <i>Tuff</i> | 48.6 | 14.7 | .658 | 7.83 | 2.60 | .013 | 20.0 | .065 | .867 |
| 31743 <i>V</i> | 46.4 | 12.9 | .553 | 9.28 | .249 | .008 | 22.2 | .065 | .984 |



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| Sample No. | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Na ₂ O | K ₂ O | Fe ₂ O ₃ | MnO | TiO ₂ |
|------------------------------|------------------|--------------------------------|------|------|-------------------|------------------|--------------------------------|------|------------------|
| | % | % | % | % | % | % | % | % | % |
| 31744 V ₁ tuff | 37.7 | 14.0 | .478 | 8.04 | .027 | .001 | 32.8 | .076 | .701 |
| 31745 V + py | 37.4 | 13.2 | 1.33 | 8.79 | .096 | .065 | 30.0 | .212 | .684 |
| 31746 V | 51.3 | 15.9 | 3.78 | 5.90 | 5.39 | .133 | 10.4 | .265 | .684 |
| 31747 tuff | 51.6 | 15.3 | 2.53 | 8.09 | 3.96 | .214 | 10.5 | .112 | .884 |
| 31748 Shale | 40.4 | 7.37 | 24.3 | 2.16 | 2.93 | .196 | 3.33 | .287 | .284 |
| 31749 " | 41.5 | 2.64 | 27.3 | 1.67 | .080 | .269 | 2.89 | .236 | .200 |
| 31750 tuff | 46.4 | 14.7 | 9.83 | 6.47 | 4.39 | .301 | 8.15 | .183 | .734 |
| 41751 " + py | 47.1 | 15.3 | 3.15 | 11.5 | 2.91 | .095 | 12.0 | .112 | .767 |
| 41752 V | 44.5 | 15.7 | 7.90 | 6.93 | 4.88 | .174 | 9.94 | .148 | .767 |
| 41753 V ₁ tuff | 50.5 | 16.4 | 1.85 | 6.60 | 5.46 | .089 | 12.3 | .084 | .801 |
| 41754 " " | 49.6 | 15.7 | 3.13 | 6.81 | 4.89 | .046 | 13.0 | .117 | .767 |
| 41755 " v + po, py | 46.6 | 12.7 | 8.67 | 5.14 | 3.71 | .054 | 13.7 | .219 | .734 |
| 41756 Shale | 46.4 | 3.59 | 8.59 | 3.50 | .031 | .014 | 27.2 | .484 | .217 |
| 41757 " | 54.6 | 7.37 | .788 | 2.39 | .020 | .022 | 26.7 | .229 | .367 |
| 41758 V | 56.2 | 6.80 | .958 | 3.12 | .775 | .051 | 25.9 | .142 | .350 |
| 41759 V ₁ tuff | 82.0 | 3.02 | .797 | 1.77 | .020 | .010 | 10.1 | .089 | .083 |
| 41760 Shale + po | 71.1 | 4.34 | .979 | 2.32 | .034 | .010 | 17.5 | .040 | .117 |
| 41761 V | 45.4 | 15.5 | .954 | 2.84 | 5.77 | .059 | 22.6 | .173 | .584 |
| 41762 V | 27.4 | 15.3 | .568 | 10.5 | .013 | .005 | 38.0 | .099 | 1.28 |
| 41763 V ₁ tuff | 52.6 | 12.7 | .630 | 3.80 | 2.56 | .011 | 22.9 | .072 | .801 |
| 41764 " " + po | 66.0 | 7.56 | .405 | 2.67 | .278 | .005 | 19.9 | .070 | .284 |
| 41765 " " " | 48.6 | 6.61 | 15.1 | 2.02 | .166 | .022 | 18.6 | .377 | .150 |
| 41766 Shale + po | 50.8 | 4.34 | 7.95 | 3.28 | .493 | .734 | 24.8 | .247 | .183 |
| 41767 V ₁ tuff | 50.9 | 14.2 | 6.35 | 5.95 | 3.69 | .039 | 12.0 | .167 | .751 |
| 41768 V ₁ breccia | 51.8 | 7.37 | 1.86 | 3.96 | 2.28 | 1.16 | 18.2 | .058 | 1.75 |



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| Sample No. | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Na ₂ O | K ₂ O | Fe ₂ O ₃ | MnO | TiO ₂ |
|---------------------------|------------------|--------------------------------|------|------|-------------------|------------------|--------------------------------|------|------------------|
| | % | % | % | % | % | % | % | % | % |
| 41769 V ₁ tuff | 43.9 | 2.08 | .145 | .197 | .565 | .029 | 35.6 | .058 | 2.25 |
| 41770 V+p ^o | 37.9 | 15.5 | .623 | 7.05 | 1.98 | .002 | 28.9 | .083 | .751 |
| 41771 " " | 51.1 | 2.64 | .351 | 1.43 | -.001 | .022 | 37.0 | .079 | .117 |
| 41772 V | 40.4 | 8.50 | 5.37 | 7.69 | -.001 | .010 | 28.0 | .310 | .500 |
| 41773 "+p ^o | 58.6 | 3.78 | 4.67 | 1.27 | .013 | .011 | 25.7 | .137 | .117 |
| 41774 " " | 65.1 | 5.67 | .348 | 3.37 | .233 | .018 | 21.9 | .037 | .267 |
| 41775 V | 49.6 | 14.9 | 13.8 | 5.09 | .909 | .223 | 12.9 | .176 | .717 |
| 41776 V | 39.8 | 2.08 | 4.32 | 2.14 | .030 | .061 | 37.3 | .549 | .117 |
| 41777 V+p ^o | 76.6 | 3.40 | .767 | .817 | .936 | .036 | 15.9 | .028 | .150 |
| 41778 V+py | 51.3 | 7.74 | 2.32 | 4.38 | .003 | .001 | 26.5 | .399 | .384 |
| 31779 " " | 46.0 | 13.6 | .932 | 6.05 | 2.45 | .011 | 24.7 | .172 | .684 |
| 41780 V+p ^o | 49.8 | 14.4 | 1.02 | 6.07 | 3.60 | .014 | 21.3 | .102 | .684 |
| 41781 V | 44.1 | 11.3 | 6.43 | 15.9 | 1.34 | .596 | 12.4 | .190 | 1.17 |
| 41782 V+p ^o | 45.1 | 13.8 | 6.41 | 11.3 | 2.68 | 1.13 | 13.9 | .185 | 1.17 |
| 41783 V ₁ tuff | 49.0 | 15.7 | 1.39 | 4.91 | 4.99 | .063 | 17.7 | .195 | .934 |
| 41784 " " | 50.5 | 15.9 | 1.25 | 4.87 | 4.87 | .019 | 17.7 | .125 | .884 |
| 41785 V+p ^o | 46.8 | 16.1 | 1.24 | 6.57 | 3.49 | .012 | 19.0 | .148 | 1.28 |
| 41786 Shale | 53.8 | 8.12 | 3.83 | 4.48 | .170 | .192 | 20.5 | .270 | .334 |
| 41787 " " | 38.1 | 3.21 | 26.0 | 2.04 | .115 | .088 | 5.73 | .380 | .167 |
| 41788 "+py | 39.8 | 2.83 | 25.9 | 2.35 | .055 | .031 | 5.22 | .378 | .133 |
| 41789 " " | 63.5 | 8.31 | 5.93 | 2.55 | 4.79 | .075 | 4.95 | .205 | .100 |
| 41790 " " | 38.5 | 4.16 | 23.9 | 1.47 | .288 | .016 | 9.52 | .473 | .234 |
| 41791 " " | 51.6 | 7.37 | 9.30 | 6.18 | .026 | .017 | 14.1 | .247 | .434 |
| 41792 " " | 48.6 | 3.21 | 14.3 | 3.60 | .186 | .622 | 12.2 | .782 | .133 |
| 41793 Shale | 37.5 | 4.91 | 24.6 | 2.88 | .816 | .010 | 6.62 | .298 | .267 |



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| Sample No. | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Na ₂ O | K ₂ O | Fe ₂ O ₃ | MnO | TiO ₂ |
|------------------|------------------|--------------------------------|------|------|-------------------|------------------|--------------------------------|------|------------------|
| | % | % | % | % | % | % | % | % | % |
| 41794 Shale | 49.5 | 10.2 | 11.1 | 4.21 | 3.29 | .012 | 10.1 | .172 | .517 |
| 41795 " | 44.9 | 8.50 | 16.6 | 3.51 | 2.45 | .013 | 7.91 | .226 | .400 |
| 41796 " | 43.4 | 8.12 | 18.5 | 3.32 | 2.37 | .012 | 7.19 | .253 | .400 |
| 41797 " | 38.1 | 4.91 | 24.1 | 2.88 | .971 | -.001 | 6.21 | .288 | .267 |
| 41798 " r po | 43.9 | 9.45 | 9.56 | 6.17 | .264 | .005 | 19.5 | .190 | .450 |
| 41799 Shale | 44.9 | 8.69 | 10.2 | 3.86 | .035 | .001 | 21.0 | .244 | .417 |
| 41800 " | 45.6 | 4.53 | 11.8 | 3.61 | .011 | .001 | 18.2 | .731 | .200 |
| 41801 " | 55.4 | 6.23 | 2.28 | 4.64 | .249 | .368 | 22.6 | .314 | .384 |
| 41802 " r py | 44.1 | 4.34 | 2.83 | 9.63 | .546 | .782 | 28.2 | .148 | .250 |
| 41803 Shale | 45.4 | 10.4 | 1.55 | 8.09 | .249 | .323 | 26.2 | .183 | .500 |
| 41804 " | 45.4 | 10.6 | .760 | 6.78 | .179 | .178 | 27.6 | .108 | .550 |
| 41805 V | 49.2 | 9.82 | 4.70 | 8.64 | .012 | .004 | 19.7 | .125 | .550 |
| 41806 Shale | 55.4 | 6.42 | .715 | 4.49 | .142 | .169 | 26.3 | .067 | .350 |
| 41807 Shale + po | 48.1 | 5.48 | 9.79 | 3.15 | .864 | .549 | 22.6 | .187 | .117 |
| 41808 V r po | 47.1 | 11.5 | .981 | 7.31 | .306 | .023 | 27.0 | .090 | .600 |
| 41809 V | 46.8 | 14.9 | 1.15 | 5.59 | 3.41 | .064 | 22.9 | .084 | .617 |
| 41810 V r po | 40.2 | 16.1 | 1.07 | 6.96 | 2.95 | .036 | 25.9 | .083 | .600 |
| 41811 V + po | 48.8 | 10.4 | .949 | 3.63 | 3.02 | .020 | 26.2 | .056 | .550 |
| 41812 V | 52.4 | 9.45 | .642 | 7.34 | .186 | .111 | 24.0 | .079 | .517 |
| 41813 V + po | 41.9 | 11.9 | 1.34 | 11.1 | .066 | .016 | 26.6 | .112 | .600 |
| 41814 Shale | 51.1 | 3.02 | 8.95 | 5.37 | 1.03 | .213 | 28.5 | .199 | .167 |
| 41815 V | 41.9 | 7.56 | 7.37 | 10.4 | .240 | .029 | 27.9 | .207 | .450 |
| 41816 Shale | 54.8 | 12.5 | 3.72 | 2.82 | 5.59 | .296 | 13.5 | .148 | .967 |
| 41817 V | 51.8 | 14.0 | 2.71 | 4.24 | 5.26 | .202 | 16.9 | .148 | 1.15 |



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| Sample No. | P ₂ O ₅ % | L.O.I. % | Ba ppm | Sr ppm | Rb ppm | V ppm |
|------------|------------------------------------|-------------|-----------|-----------|-----------|----------|
| 31501 | .249 | 16.5 | 120 | 236 | 4 | 130 |
| 502 | .412 | 22.8 | 150 | 417 | 3 | 70 |
| 503 | .445 | 4.90 | 330 | 318 | 6 | 150 |
| 504 | -.002 | 31.6 | 30 | 21 | 11 | 60 |
| 505 | .590 | 8.25 | 80 | 57 | 6 | 190 |
| 506 | .549 | 10.5 | 750 | 468 | 19 | 270 |
| 507 | .405 | 7.80 | 30 | 162 | 4 | 220 |
| 508 | .146 | 17.8 | 480 | 543 | 21 | 190 |
| 509 | .455 | 7.55 | 10 | 34 | 5 | 180 |
| 510 | .288 | 6.05 | 260 | 118 | 9 | 200 |
| 511 | .844 | 4.70 | 30 | 83 | 2 | 260 |
| 512 | .852 | 4.55 | 20 | 86 | 3 | 270 |
| 513 | .777 | 5.05 | 20 | 64 | 3 | 260 |
| 514 | .425 | 6.40 | 40 | 278 | 1 | 130 |
| 515 | .617 | 14.2 | 110 | 82 | 6 | 220 |
| 516 | .791 | 5.65 | 30 | 48 | 6 | 270 |
| 517 | .427 | 5.50 | 10 | 86 | 3 | 220 |
| 518 | .611 | 5.80 | 10 | 67 | 3 | 260 |
| 519 | .083 | 3.90 | 10 | 142 | 1 | 120 |
| 520 | .536 | 7.25 | 10 | 39 | 3 | 270 |
| 521 | .488 | 5.20 | 10 | 25 | 2 | 220 |
| 523 | .400 | 4.65 | 10 | 31 | 1 | 230 |
| 524 | .551 | 6.00 | 10 | 34 | 2 | 280 |
| 525 | .374 | 5.35 | 730 | 352 | 38 | 180 |
| 526 | .171 | 5.60 | 30 | 66 | 2 | 260 |



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| Sample No. | P ₂ O ₅ % | L.O.I. % | Ba ppm | Sr ppm | Rb ppm | V ppm |
|------------|------------------------------------|-------------|-----------|-----------|-----------|----------|
| 31527 | .029 | 2.05 | 40 | 17 | 1 | 80 |
| 528 | .024 | 3.60 | 50 | 12 | 2 | 90 |
| 529 | .034 | 8.60 | 20 | 10 | 2 | 90 |
| 530 | .219 | 4.55 | 30 | 130 | 1 | 80 |
| 531 | .039 | 14.3 | 30 | 31 | 5 | 130 |
| 31562 | .166 | 14.6 | 250 | 286 | 25 | 100 |
| 563 | .195 | 8.40 | 310 | 198 | 62 | 100 |
| 564 | .171 | 7.20 | 280 | 151 | 53 | 130 |
| 565 | .061 | 9.80 | 140 | 231 | 19 | 90 |
| 566 | .417 | 15.9 | 260 | 406 | 25 | 170 |
| 567 | .427 | 15.9 | 180 | 318 | 13 | 150 |
| 568 | .455 | 26.1 | 100 | 560 | 5 | 110 |
| 569 | .183 | 17.2 | 170 | 252 | 24 | 130 |
| 570 | .171 | 26.0 | 170 | 516 | 12 | 100 |
| 571 | .354 | 21.4 | 170 | 476 | 26 | 130 |
| 572 | .412 | 18.9 | 160 | 390 | 30 | 150 |
| 573 | .105 | 4.65 | 370 | 47 | 95 | 90 |
| 574 | .215 | 27.5 | 100 | 427 | 5 | 90 |
| 575 | .080 | 11.7 | 220 | 133 | 24 | 260 |
| 576 | .334 | 13.4 | 270 | 128 | 30 | 290 |
| 577 | .415 | 9.80 | 190 | 352 | 5 | 170 |
| 578 | .410 | 9.05 | 150 | 368 | 2 | 180 |
| 579 | .455 | 9.80 | 480 | 447 | 16 | 180 |
| 580 | .392 | 8.90 | 490 | 294 | 27 | 180 |
| 581 | .377 | 10.1 | 310 | 304 | 16 | 160 |



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| Sample No. | P ₂ O ₅ % | L.O.I. % | Ba ppm | Sr ppm | Rb ppm | V ppm |
|------------|------------------------------------|-------------|-----------|-----------|-----------|----------|
| 31582 | .392 | 4.80 | 110 | 44 | 1 | 190 |
| 583 | .638 | 8.50 | 80 | 235 | 2 | 210 |
| 584 | .405 | 5.65 | 10 | 85 | 1 | 200 |
| 585 | .400 | 10.1 | 50 | 276 | 1 | 180 |
| 586 | .531 | 21.5 | 30 | 228 | 2 | 80 |
| 587 | .465 | 16.4 | 250 | 208 | 10 | 170 |
| 588 | .215 | 16.4 | 10 | 15 | 3 | 100 |
| 589 | .275 | 10.6 | 40 | 130 | 2 | 90 |
| 590 | .331 | 18.6 | 50 | 233 | 1 | 130 |
| 591 | .488 | 14.2 | 10 | 157 | 1 | 140 |
| 592 | .486 | 6.05 | 1890 | 309 | 56 | 280 |
| 593 | .493 | 10.1 | 20 | 36 | 3 | 200 |
| 594 | .427 | 13.4 | 40 | 125 | 3 | 130 |
| 595 | .268 | 28.3 | 150 | 460 | 2 | 50 |
| 596 | .978 | 20.5 | 330 | 407 | 23 | 130 |
| 597 | .595 | 26.2 | 230 | 440 | 5 | 110 |
| 598 | .359 | 16.9 | 60 | 252 | 1 | 110 |
| 599 | 2.09 | 23.1 | 110 | 470 | 1 | 120 |
| 600 | 2.00 | 14.6 | 40 | 430 | 4 | 290 |
| 601 | .183 | 6.95 | 80 | 138 | 3 | 110 |
| 602 | .630 | 16.6 | 30 | 292 | 1 | 170 |
| 31630 | .093 | 5.10 | 80 | 122 | 5 | 40 |
| 631 | .836 | 7.40 | 70 | 71 | 5 | 330 |
| 632 | .275 | 9.05 | 140 | 190 | 11 | 210 |
| 633 | .166 | 22.0 | 110 | 281 | 7 | 130 |



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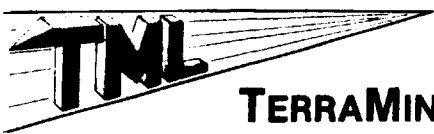
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| Sample No. | P ₂ O ₅ % | L.O.I. % | Ba ppm | Sr ppm | Rb ppm | V ppm |
|------------|------------------------------------|-------------|-----------|-----------|-----------|----------|
| 31634 | .836 | 20.8 | 130 | 316 | 16 | 140 |
| 635 | .374 | 12.0 | 20 | 146 | -1 | 160 |
| 636 | .044 | 6.10 | 20 | 8 | -1 | 70 |
| 637 | .481 | 6.25 | 20 | 109 | 1 | 220 |
| 638 | .195 | 5.15 | 110 | 17 | 4 | 60 |
| 639 | .374 | 7.20 | 10 | 56 | 1 | 200 |
| 640 | .556 | 7.35 | 50 | 40 | 2 | 240 |
| 641 | .379 | 8.50 | 40 | 228 | 1 | 180 |
| 642 | .334 | 8.15 | 160 | 290 | 4 | 180 |
| 643 | .352 | 5.95 | 10 | 56 | 1 | 190 |
| 644 | .349 | 7.45 | 80 | 261 | 1 | 180 |
| 645 | .468 | 5.80 | 30 | 173 | 1 | 220 |
| 646 | .379 | 5.25 | 40 | 176 | 1 | 210 |
| 647 | .511 | 4.75 | 10 | 30 | 1 | 260 |
| 648 | .293 | 7.90 | 30 | 177 | 1 | 180 |
| 649 | .367 | 5.55 | 20 | 55 | -1 | 130 |
| 650 | .415 | 7.60 | 10 | 29 | 1 | 200 |
| 651 | .232 | 4.95 | 90 | 101 | 2 | 130 |
| 652 | .080 | 3.85 | 30 | 70 | 1 | 80 |
| 653 | .382 | 4.85 | 30 | 34 | 1 | 180 |
| 654 | .005 | 5.60 | 10 | 18 | 2 | 60 |
| 655 | .078 | 18.2 | 20 | 102 | 5 | 130 |
| 656 | .029 | 7.25 | 20 | 28 | 1 | 40 |
| 657 | .015 | 7.65 | 20 | 43 | 1 | 60 |
| 658 | .316 | 5.25 | 20 | 20 | 2 | 180 |



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| Sample No. | P ₂ O ₅ % | L.O.I. % | Ba ppm | Sr ppm | Rb ppm | V ppm |
|------------|------------------------------------|-------------|-----------|-----------|-----------|----------|
| 31659 | .024 | 5.60 | 10 | 10 | 1 | 60 |
| 660 | .193 | 10.9 | 20 | 82 | 4 | 180 |
| 661 | -.002 | 2.75 | 10 | 143 | 3 | 40 |
| 662 | .347 | 5.25 | 10 | 19 | 2 | 220 |
| 663 | .158 | 7.35 | 10 | 38 | 3 | 220 |
| 664 | .324 | 7.95 | 10 | 27 | 2 | 230 |
| 665 | .354 | 7.90 | 10 | 25 | 3 | 250 |
| 666 | .357 | 21.5 | 100 | 436 | 2 | 100 |
| 667 | .455 | 4.55 | 10 | 37 | 1 | 250 |
| 678 | .166 | 12.7 | 10 | 22 | 4 | 170 |
| 679 | .141 | 5.00 | 30 | 96 | 2 | 170 |
| 680 | .266 | 6.05 | 30 | 90 | 2 | 90 |
| 681 | .093 | 8.30 | 220 | 214 | 11 | 150 |
| 682 | .392 | 10.7 | 30 | 43 | 2 | 150 |
| 683 | .266 | 7.85 | 10 | 28 | 2 | 190 |
| 684 | .110 | 8.45 | 30 | 139 | 3 | 130 |
| 685 | .093 | 9.65 | 20 | 94 | 3 | 140 |
| 686 | 1.14 | 4.30 | 30 | 88 | 1 | 190 |
| 687 | .183 | 7.70 | 10 | 222 | 1 | 100 |
| 688 | 1.18 | 4.20 | 30 | 100 | 1 | 200 |
| 689 | .777 | 4.70 | 20 | 100 | 1 | 190 |
| 690 | 1.05 | 7.15 | 30 | 213 | -1 | 180 |
| 691 | 1.27 | 4.00 | 20 | 123 | 1 | 220 |
| 692 | 1.06 | 3.45 | 10 | 64 | 1 | 200 |
| 693 | .293 | 5.25 | 30 | 114 | -1 | 210 |



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| Sample No. | P ₂ O ₅ % | I.O.I. % | Ba ppm | Sr ppm | Rb ppm | V ppm |
|------------|------------------------------------|-------------|-----------|-----------|-----------|----------|
| 31694 | .321 | 7.65 | 80 | 243 | 1 | 200 |
| 695 | .263 | 7.50 | 40 | 192 | 1 | 180 |
| 696 | .215 | 8.55 | 30 | 207 | -1 | 170 |
| 697 | .311 | 7.20 | 160 | 69 | 13 | 180 |
| 698 | .468 | 7.25 | 140 | 91 | 2 | 220 |
| 699 | .268 | 12.7 | 80 | 34 | 1 | 130 |
| 700 | .675 | 7.50 | 1200 | 132 | 17 | 220 |
| 701 | .665 | 4.70 | 1240 | 146 | 19 | 220 |
| 702 | .724 | 9.10 | 20 | 58 | -1 | 180 |
| 703 | .556 | 8.80 | 760 | 361 | 22 | 190 |
| 704 | .531 | 6.60 | 600 | 156 | 10 | 190 |
| 705 | 1.68 | 10.3 | 10 | 80 | 1 | 260 |
| 706 | .251 | 10.6 | 10 | 31 | 1 | 120 |
| 707 | .329 | 10.2 | 850 | 98 | 10 | 270 |
| 708 | .214 | 23.7 | 150 | 562 | 4 | 80 |
| 709 | .285 | 26.3 | 140 | 638 | 8 | 90 |
| 710 | .400 | 3.70 | 10 | 32 | -1 | 150 |
| 711 | .617 | 3.45 | 330 | 308 | 9 | 260 |
| 712 | .405 | 3.20 | 460 | 446 | 9 | 230 |
| 713 | .425 | 3.70 | 600 | 657 | 12 | 240 |
| 714 | .384 | 5.45 | 260 | 354 | 7 | 200 |
| 715 | .531 | 7.25 | 260 | 309 | 10 | 200 |
| 716 | .227 | 8.15 | 180 | 190 | 9 | 200 |
| 717 | 1.33 | 21.8 | 60 | 489 | -1 | 130 |
| 718 | .400 | 21.9 | 110 | 660 | -1 | 100 |



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| Sample No. | P ₂ O ₅ % | L.O.I. % | Ba ppm | Sr ppm | Rb ppm | V ppm |
|------------|------------------------------------|-------------|-----------|-----------|-----------|----------|
| 31719 | .251 | 17.3 | 60 | 606 | -1 | 190 |
| 720 | .195 | 20.1 | 30 | 630 | -1 | 110 |
| 721 | .227 | 24.2 | 100 | 585 | -1 | 80 |
| 722 | .244 | 25.4 | 90 | 700 | -1 | 120 |
| 723 | .251 | 19.6 | 60 | 656 | 1 | 110 |
| 724 | .263 | 23.7 | 50 | 740 | -1 | 100 |
| 725 | .293 | 20.7 | 70 | 392 | -1 | 160 |
| 726 | .417 | 24.3 | 30 | 483 | 1 | 150 |
| 727 | .224 | 24.7 | 120 | 748 | -1 | 90 |
| 728 | .379 | 8.15 | 190 | 208 | 9 | 180 |
| 729 | .405 | 6.20 | 50 | 189 | 1 | 200 |
| 730 | .435 | 4.85 | 20 | 93 | 1 | 200 |
| 731 | .171 | 7.10 | 10 | 119 | 2 | 130 |
| 732 | .202 | 16.1 | 40 | 140 | 5 | 130 |
| 733 | .387 | 5.20 | 10 | 26 | 1 | 180 |
| 734 | .007 | 13.7 | 60 | 170 | 4 | 90 |
| 735 | .068 | 8.80 | 40 | 128 | 7 | 70 |
| 736 | .093 | 8.65 | 70 | 133 | 11 | 60 |
| 737 | .362 | 6.40 | 70 | 45 | 3 | 190 |
| 738 | .384 | 5.55 | 10 | 26 | 1 | 220 |
| 739 | .384 | 5.35 | 10 | 32 | 1 | 250 |
| 740 | .293 | 4.45 | 10 | 46 | 1 | 160 |
| 741 | .239 | 15.8 | 20 | 178 | 2 | 130 |
| 742 | .359 | 4.70 | 10 | 28 | 1 | 210 |
| 743 | .334 | 5.60 | 10 | 22 | 1 | 210 |



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| Sample No. | P ₂ O ₅ % | L.O.I. % | Ba ppm | Sr ppm | Rb ppm | V ppm |
|------------|------------------------------------|-------------|-----------|-----------|-----------|----------|
| 31744 | .273 | 6.35 | 10 | 12 | 2 | 180 |
| 745 | .336 | 8.95 | 10 | 23 | 2 | 180 |
| 746 | .450 | 4.90 | 40 | 70 | -1 | 180 |
| 747 | .288 | 4.15 | 80 | 117 | 1 | 210 |
| 748 | .304 | 16.1 | 90 | 358 | 1 | 70 |
| 749 | .293 | 22.3 | 120 | 519 | 1 | 100 |
| 750 | .476 | 8.55 | 100 | 344 | 2 | 190 |
| 41751 | .486 | 5.85 | 30 | 127 | -1 | 190 |
| 752 | .513 | 7.60 | 80 | 254 | 1 | 180 |
| 753 | .657 | 4.35 | 10 | 88 | -1 | 190 |
| 754 | .205 | 4.55 | 20 | 92 | -1 | 220 |
| 755 | .132 | 5.75 | 20 | 222 | -1 | 190 |
| 756 | .354 | 7.05 | 40 | 191 | 1 | 170 |
| 757 | .215 | 8.10 | 10 | 22 | 1 | 200 |
| 758 | .215 | 5.80 | 10 | 40 | 1 | 200 |
| 759 | .100 | 2.45 | 10 | 31 | -1 | 80 |
| 760 | .293 | 3.50 | 10 | 26 | -1 | 90 |
| 761 | .266 | 6.60 | 2 | 121 | 1 | 220 |
| 762 | .266 | 7.35 | 10 | 14 | 2 | 220 |
| 763 | .344 | 3.75 | 10 | 30 | 1 | 190 |
| 764 | .098 | 3.35 | 10 | 15 | -1 | 130 |
| 765 | .127 | 7.20 | 10 | 300 | 1 | 120 |
| 766 | .105 | 5.35 | 290 | 69 | 11 | 90 |
| 767 | .249 | 7.25 | 30 | 251 | -1 | 310 |
| 768 | .359 | 10.7 | 640 | 707 | 11 | 220 |



TERRAMIN RESEARCH LABS LTD.

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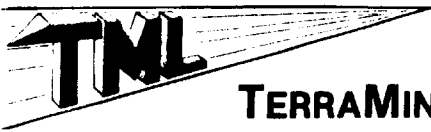
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| Sample No. | P ₂ O ₅ % | L.O.I. % | Ba ppm | Sr ppm | Rb ppm | V ppm |
|------------|------------------------------------|-------------|-----------|-----------|-----------|----------|
| 41769 | .134 | 14.6 | 30 | 21 | 2 | 110 |
| 770 | .227 | 5.60 | 10 | 26 | 1 | 210 |
| 771 | -.002 | 7.45 | 20 | 9 | 2 | 80 |
| 772 | .039 | 8.30 | 20 | 224 | 1 | 170 |
| 773 | -.002 | 5.20 | 10 | 270 | 1 | 60 |
| 774 | .046 | 4.35 | 10 | 19 | -1 | 110 |
| 775 | .151 | 2.20 | 140 | 1150 | 1 | 310 |
| 776 | .073 | 12.6 | 30 | 113 | 3 | 90 |
| 777 | .085 | 2.65 | 10 | 25 | -1 | 70 |
| 778 | .122 | 7.90 | 10 | 65 | 1 | 180 |
| 779 | .219 | 4.60 | 30 | 52 | 1 | 170 |
| 780 | .288 | 4.35 | 10 | 59 | -1 | 190 |
| 781 | .324 | 5.50 | 280 | 221 | 3 | 180 |
| 782 | .372 | 5.20 | 410 | 498 | 9 | 180 |
| 783 | .405 | 5.95 | 40 | 64 | -1 | 180 |
| 784 | .311 | 4.00 | 20 | 45 | -1 | 190 |
| 785 | .427 | 4.90 | 10 | 32 | -1 | 220 |
| 786 | .068 | 6.45 | 70 | 68 | 2 | 170 |
| 787 | .195 | 22.0 | 80 | 307 | -1 | 100 |
| 788 | .249 | 21.9 | 50 | 318 | -1 | 120 |
| 789 | .046 | 8.90 | 20 | 115 | -1 | 50 |
| 790 | .295 | 21.7 | 50 | 292 | 1 | 140 |
| 791 | .311 | 10.2 | 20 | 128 | -1 | 200 |
| 792 | .024 | 13.6 | 170 | 226 | 4 | 90 |
| 793 | .193 | 21.1 | 50 | 458 | -1 | 120 |



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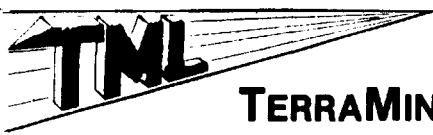
Job # 83-383

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| Sample No. | P ₂ O ₅ % | L.O.I. % | Ba ppm | Sr ppm | Rb ppm | V ppm |
|------------|------------------------------------|-------------|-----------|-----------|-----------|----------|
| 41794 | .195 | 9.05 | 10 | 207 | -1 | 200 |
| 795 | .219 | 14.6 | 20 | 281 | -1 | 160 |
| 796 | .239 | 15.8 | 70 | 332 | -1 | 150 |
| 797 | .202 | 20.3 | 70 | 424 | -1 | 130 |
| 798 | .450 | 9.35 | 10 | 139 | 1 | 190 |
| 799 | .374 | 9.30 | 10 | 143 | 1 | 170 |
| 800 | 2.15 | 12.0 | 20 | 236 | -1 | 290 |
| 801 | .268 | 7.15 | 170 | 69 | 5 | 180 |
| 802 | .073 | 7.50 | 100 | 111 | 10 | 130 |
| 803 | .180 | 6.35 | 70 | 57 | 4 | 120 |
| 804 | .354 | 6.10 | 50 | 26 | 2 | 250 |
| 805 | .110 | 6.25 | 10 | 114 | -1 | 250 |
| 806 | .168 | 5.65 | 30 | 17 | 2 | 220 |
| 807 | .219 | 7.10 | 140 | 100 | 7 | 90 |
| 808 | .166 | 5.50 | 10 | 21 | 1 | 210 |
| 809 | .297 | 4.40 | 20 | 50 | 1 | 240 |
| 810 | .207 | 5.20 | 20 | 40 | 1 | 230 |
| 811 | .085 | 5.10 | 20 | 39 | 1 | 140 |
| 812 | .110 | 5.10 | 40 | 12 | 1 | 150 |
| 813 | .171 | 6.35 | 10 | 17 | 1 | 200 |
| 814 | .073 | 1.05 | 100 | 39 | 3 | 130 |
| 815 | .402 | 3.05 | 20 | 21 | 1 | 180 |
| 816 | .354 | 3.40 | 130 | 94 | 2 | 230 |
| 817 | .430 | 3.40 | 90 | 89 | 2 | 270 |



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Falconbridge Ltd.

Date January 19, 1984

Terry Chandler

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| Sample No. | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Na ₂ O | K ₂ O | Fe ₂ O ₃ | MnO | TiO |
|------------|------------------|--------------------------------|------|------|-------------------|------------------|--------------------------------|------|------|
| | % | % | % | % | % | % | % | % | % |
| 31501 | 41.5 | 3.59 | 20.8 | .199 | 1.46 | .198 | 12.8 | .534 | .183 |
| 31502 | 33.8 | 0.76 | 31.2 | .809 | .066 | .108 | 7.61 | .722 | .133 |
| 31503 | 49.2 | 13.0 | 4.69 | 13.7 | 2.31 | .746 | 9.15 | .129 | 1.27 |
| 31504 | 0.64 | 0.57 | 1.73 | .091 | .004 | .014 | 61.2 | .257 | .017 |
| 31505 | 32.5 | 14.6 | 1.33 | 2.77 | .015 | .084 | 38.9 | .167 | 1.48 |
| 31506 | 41.1 | 12.7 | 6.94 | 5.45 | 1.43 | 1.12 | 17.1 | .337 | .867 |
| 31507 | 24.8 | 14.4 | 9.40 | 2.19 | -.001 | -.001 | 37.4 | .244 | 1.80 |
| 31508 | 35.5 | 10.0 | 12.2 | 9.12 | 1.22 | 1.20 | 11.5 | .272 | .734 |
| 31509 | 34.0 | 14.7 | 1.07 | 3.91 | .018 | .101 | 37.9 | .217 | .934 |
| 31510 | 41.9 | 7.93 | 7.18 | 2.37 | .015 | .581 | 30.3 | .181 | .684 |
| 31511 | 40.4 | 17.8 | 1.51 | 5.36 | 3.67 | .028 | 25.0 | .145 | 1.65 |
| 31512 | 38.3 | 18.0 | 1.32 | 4.44 | 3.41 | .027 | 27.5 | .120 | 1.50 |
| 31513 | 38.5 | 16.1 | 1.41 | 4.68 | 2.00 | .013 | 30.3 | .158 | 1.50 |
| 31514 | 54.2 | 4.53 | 11.1 | 1.15 | .005 | .004 | 19.7 | .349 | .217 |
| 31515 | 35.1 | 6.04 | 1.86 | 2.82 | -.001 | .111 | 38.5 | .492 | .284 |
| 31516 | 28.9 | 16.1 | 1.30 | 4.73 | .003 | .024 | 40.3 | .072 | 1.60 |
| 31517 | 41.6 | 12.5 | 2.57 | 4.23 | .003 | .002 | 30.3 | .137 | 1.00 |
| 31518 | 38.5 | 16.3 | 1.18 | 5.84 | 2.18 | .012 | 29.2 | .089 | 1.30 |
| 31519 | 68.9 | 3.21 | 4.07 | 1.69 | .958 | .042 | 14.9 | .272 | .117 |
| 31520 | 26.3 | 18.1 | 1.12 | 10.6 | .276 | .028 | 34.9 | .102 | 1.58 |
| 31521 | 47.5 | 13.2 | .779 | 7.53 | .081 | .001 | 25.9 | .067 | 1.20 |
| 31523 | 46.4 | 15.1 | .743 | 7.03 | 2.06 | .007 | 22.5 | .046 | 1.18 |
| 31524 | 38.1 | 16.8 | .981 | 9.98 | 1.78 | .007 | 24.5 | .054 | 1.48 |
| 31525 | 54.3 | 17.0 | 5.93 | 2.49 | 4.26 | 1.83 | 8.01 | .146 | .684 |
| 31526 | 42.1 | 15.9 | .993 | 3.71 | 5.26 | .037 | 24.9 | .044 | .901 |



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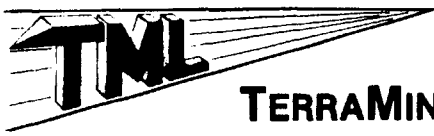
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| Sample No. | SiO ₂ % | Al ₂ O ₃ % | CaO % | MgO % | Na ₂ O % | K ₂ O % | Fe ₂ O ₃ % | MnO % | TiO ₂ % |
|------------|-----------------------|-------------------------------------|----------|----------|------------------------|-----------------------|-------------------------------------|----------|-----------------------|
| 31527 | 82.4 | 3.40 | .256 | .987 | .369 | .105 | 11.0 | .013 | .117 |
| 31528 | 70.0 | 4.34 | .270 | 1.91 | .116 | .149 | 19.2 | .028 | .150 |
| 31529 | 61.6 | 2.27 | .397 | 1.69 | .098 | .001 | 26.3 | .360 | .117 |
| 31530 | 61.9 | 2.46 | 4.10 | 1.51 | .581 | .014 | 21.5 | .281 | .117 |
| 31531 | 35.1 | 3.97 | 1.33 | 2.85 | .008 | .001 | 39.9 | .542 | .183 |
| 31562 | 49.3 | 7.37 | 18.5 | 2.09 | .040 | 1.58 | 4.23 | .156 | .217 |
| 31563 | 47.5 | 14.9 | 11.5 | 2.69 | .794 | 3.59 | 7.41 | .107 | .600 |
| 31564 | 55.8 | 12.5 | 10.3 | 2.37 | .270 | 3.24 | 5.45 | .093 | .600 |
| 31565 | 57.3 | 6.99 | 11.6 | 2.79 | .128 | 1.20 | 9.97 | .155 | .217 |
| 31566 | 46.4 | 6.99 | 21.1 | 1.81 | .255 | 1.42 | 4.49 | .137 | .334 |
| 31567 | 49.2 | 4.53 | 21.8 | 1.23 | .187 | .971 | 5.32 | .256 | .167 |
| 31568 | 35.5 | 2.46 | 30.1 | 1.67 | .024 | .354 | 4.82 | .263 | .150 |
| 31569 | 44.7 | 7.37 | 20.4 | 2.19 | .360 | 1.43 | 3.73 | .372 | .267 |
| 31570 | 33.8 | 3.59 | 31.3 | 1.38 | .065 | .753 | 3.82 | .347 | .167 |
| 31571 | 43.4 | 6.04 | 24.1 | 1.16 | .067 | 1.53 | 3.10 | .203 | .250 |
| 31572 | 45.4 | 6.80 | 20.8 | 1.19 | .055 | 1.72 | 3.83 | .191 | .267 |
| 31573 | 69.7 | 15.3 | 1.96 | 1.61 | .119 | 4.64 | 2.56 | .045 | .183 |
| 31574 | 35.1 | 2.08 | 30.5 | .841 | .015 | .343 | 2.86 | .323 | .150 |
| 31575 | 53.9 | 6.23 | 9.79 | 1.14 | .047 | 1.69 | 12.4 | .217 | .334 |
| 31576 | 53.9 | 9.45 | 11.2 | 2.59 | .061 | 1.75 | 7.51 | .207 | .484 |
| 31577 | 47.1 | 14.6 | 8.87 | 7.56 | 3.49 | .405 | 7.87 | .275 | 1.02 |
| 31578 | 48.8 | 14.7 | 7.65 | 7.05 | 3.64 | .240 | 8.21 | .196 | .884 |
| 31579 | 47.9 | 14.9 | 9.43 | 4.78 | 3.59 | 1.20 | 6.66 | .270 | .934 |
| 31580 | 49.4 | 15.5 | 8.45 | 4.08 | 3.17 | 1.81 | 8.17 | .226 | .934 |
| 31581 | 46.4 | 14.7 | 10.1 | 4.11 | 3.50 | 1.18 | 8.81 | .261 | .917 |



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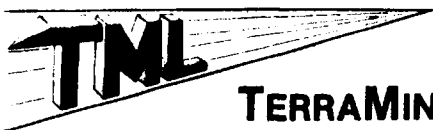
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| Sample No. | SiO ₂ % | Al ₂ O ₃ % | CaO % | MgO % | Na ₂ O % | K ₂ O % | Fe ₂ O ₃ % | MnO % | TiO ₂ % |
|------------|-----------------------|-------------------------------------|----------|----------|------------------------|-----------------------|-------------------------------------|----------|-----------------------|
| 31582 | 50.7 | 14.6 | 1.40 | 5.59 | 2.67 | .020 | 18.7 | .163 | .917 |
| 31583 | 43.4 | 15.5 | 6.62 | 5.67 | 4.12 | .124 | 13.5 | .229 | 1.25 |
| 31584 | 50.7 | 14.9 | 2.55 | 5.42 | 2.99 | .025 | 16.2 | .178 | .967 |
| 31585 | 48.8 | 14.2 | 6.42 | 4.56 | 5.92 | .064 | 9.74 | .174 | .951 |
| 31586 | 40.4 | 1.13 | 14.3 | 5.34 | .036 | .071 | 14.0 | 1.88 | .100 |
| 31587 | 37.0 | 6.61 | 13.4 | 2.29 | .545 | .603 | 19.3 | .785 | .250 |
| 31588 | 41.9 | 3.02 | .748 | 1.76 | -.001 | -.001 | 32.0 | 2.21 | .150 |
| 31589 | 49.6 | 3.02 | 8.00 | 1.24 | .007 | .028 | 23.3 | 1.37 | .167 |
| 31590 | 39.4 | 4.34 | 15.5 | 2.29 | .001 | .012 | 16.3 | .591 | .150 |
| 31591 | 50.1 | 5.10 | 8.83 | 3.32 | -.001 | -.001 | 17.9 | .567 | .150 |
| 31592 | 45.8 | 20.0 | 2.73 | 4.92 | 2.68 | 2.63 | 12.5 | .125 | .867 |
| 31593 | 43.4 | 8.12 | 1.07 | 1.99 | .007 | .011 | 32.5 | .678 | .517 |
| 31594 | 39.6 | 5.29 | 7.61 | 2.35 | .010 | .049 | 27.7 | 1.78 | .384 |
| 31595 | 30.4 | 2.83 | 31.9 | .912 | .532 | .140 | 3.93 | .423 | .133 |
| 31596 | 42.1 | 8.12 | 22.0 | 1.35 | .377 | 1.29 | 3.25 | .198 | .434 |
| 31597 | 35.1 | 3.21 | 27.7 | 1.10 | .019 | .395 | 4.39 | .328 | .133 |
| 31598 | 42.1 | 4.72 | 17.2 | 1.84 | .003 | -.001 | 15.2 | .970 | .133 |
| 31599 | 34.7 | 2.83 | 27.3 | 1.24 | .133 | .060 | 6.78 | .981 | .133 |
| 31600 | 24.2 | 2.46 | 24.5 | .973 | .003 | .037 | 26.2 | .962 | .183 |
| 31601 | 61.2 | 11.3 | 6.06 | 2.16 | 4.15 | .321 | 6.64 | .148 | .150 |
| 31602 | 44.9 | 8.12 | 15.1 | 3.65 | 2.16 | .076 | 7.28 | .278 | .450 |
| 31630 | 70.2 | 11.3 | 4.78 | 1.64 | 4.80 | .568 | 2.32 | .101 | .117 |
| 31631 | 66.7 | 4.91 | 5.61 | 1.21 | 1.12 | .492 | 10.7 | .208 | .317 |
| 31632 | 47.7 | 14.7 | 9.75 | 4.86 | 3.83 | 1.01 | 8.31 | .254 | .767 |
| 31633 | 40.0 | 3.97 | 26.6 | 1.05 | .816 | .694 | 4.38 | .409 | .150 |



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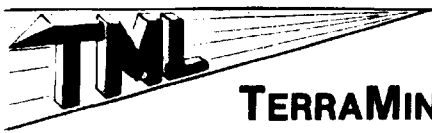
Job # 83-383

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| Sample No. | SiO ₂ % | Al ₂ O ₃ % | CaO % | MgO % | Na ₂ O % | K ₂ O % | Fe ₂ O ₃ % | MnO % | TiO ₂ % |
|------------|-----------------------|-------------------------------------|----------|----------|------------------------|-----------------------|-------------------------------------|----------|-----------------------|
| 31634 | 36.4 | 6.80 | 21.0 | 2.82 | 1.10 | 1.21 | 6.44 | .398 | .267 |
| 31635 | 59.7 | 4.72 | 10.1 | 3.07 | .007 | .013 | 10.4 | .210 | .217 |
| 31636 | 62.5 | 8.50 | .210 | 5.79 | .268 | .011 | 17.0 | .110 | .167 |
| 31637 | 44.5 | 15.1 | 3.92 | 8.17 | 3.36 | .029 | 16.6 | .261 | .967 |
| 31638 | 61.8 | 6.99 | .165 | 3.48 | .900 | .372 | 21.3 | .084 | .150 |
| 31639 | 48.1 | 13.0 | 2.46 | 11.5 | .793 | .012 | 16.7 | .192 | .784 |
| 31640 | 43.9 | 14.2 | 1.86 | 13.9 | .187 | .169 | 15.7 | .170 | 1.08 |
| 31641 | 47.1 | 15.1 | 6.24 | 11.2 | 3.59 | .119 | 7.84 | .177 | .851 |
| 31642 | 46.2 | 14.9 | 8.37 | 7.99 | 4.19 | .446 | 7.88 | .216 | .801 |
| 31643 | 46.0 | 15.9 | 1.52 | 12.2 | 2.43 | .036 | 14.9 | .195 | .784 |
| 31644 | 46.0 | 15.3 | 7.88 | 6.93 | 4.64 | .181 | 10.0 | .287 | .767 |
| 31645 | 47.3 | 16.6 | 3.30 | 9.30 | 4.43 | .067 | 11.2 | .165 | .884 |
| 31646 | 46.0 | 18.1 | 2.24 | 9.57 | 5.51 | .128 | 11.5 | .125 | .834 |
| 31647 | 48.8 | 16.3 | .949 | 9.28 | 4.26 | .020 | 15.4 | .110 | 1.08 |
| 31648 | 44.5 | 14.9 | 6.77 | 9.83 | 3.69 | .084 | 10.5 | .261 | .717 |
| 31649 | 48.3 | 15.7 | 1.39 | 11.7 | 3.64 | .031 | 11.8 | .098 | .834 |
| 31650 | 39.4 | 17.0 | .853 | 16.5 | 1.94 | .011 | 16.3 | .111 | .967 |
| 31651 | 64.8 | 5.10 | 2.71 | 4.44 | .814 | .125 | 15.7 | .136 | .234 |
| 31652 | 72.3 | 3.59 | 1.96 | 1.31 | .748 | .020 | 15.7 | .089 | .200 |
| 31653 | 46.4 | 14.4 | .700 | 6.96 | 1.56 | .006 | 25.3 | .059 | .867 |
| 31654 | 58.4 | 1.70 | .644 | 1.18 | .013 | -.001 | 31.9 | .048 | .083 |
| 31655 | 28.9 | 4.72 | 2.25 | 3.20 | .008 | .006 | 42.5 | .311 | .317 |
| 31656 | 66.1 | 0.76 | .625 | .335 | .026 | .007 | 23.9 | .052 | .067 |
| 31657 | 58.6 | 2.27 | 1.10 | 1.10 | -.001 | -.001 | 27.7 | .116 | .117 |
| 31658 | 45.4 | 13.2 | .560 | 6.28 | .081 | -.001 | 29.0 | .067 | .817 |



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| Sample No. | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Na ₂ O | K ₂ O | Fe ₂ O ₃ | MnO | TiO ₂ |
|------------|------------------|--------------------------------|------|------|-------------------|------------------|--------------------------------|------|------------------|
| | % | % | % | % | % | % | % | % | % |
| 31659 | 62.2 | 2.64 | .281 | .671 | .022 | -.001 | 28.0 | .025 | .117 |
| 31660 | 24.4 | 12.5 | 2.45 | 5.32 | .018 | .013 | 42.5 | .186 | .751 |
| 31661 | 59.3 | 0.19 | 4.03 | 4.89 | .144 | .090 | 26.5 | .223 | .017 |
| 31662 | 45.6 | 13.2 | .504 | 8.37 | -.001 | .002 | 25.2 | .059 | 1.08 |
| 31663 | 29.5 | 14.0 | .564 | 8.52 | 1.59 | -.001 | 35.0 | .057 | 1.05 |
| 31664 | 31.2 | 15.7 | .621 | 11.5 | .257 | -.001 | 31.8 | .065 | 1.10 |
| 31665 | 25.7 | 17.0 | .679 | 11.2 | .018 | -.001 | 34.9 | .090 | 1.28 |
| 31666 | 37.9 | 3.78 | 25.7 | 1.09 | .066 | .149 | 7.64 | .816 | .234 |
| 31667 | 48.6 | 14.2 | .944 | 6.48 | 2.74 | .006 | 20.2 | .102 | 1.03 |
| 31678 | 25.7 | 12.1 | .532 | 8.04 | .150 | .006 | 39.9 | .181 | .617 |
| 31679 | 46.6 | 12.7 | .547 | 1.44 | 5.77 | .036 | 27.5 | .023 | .567 |
| 31680 | 41.7 | 10.8 | 1.40 | .375 | 5.92 | .029 | 30.9 | .088 | 1.78 |
| 31681 | 33.6 | 5.29 | 6.77 | 3.68 | .140 | .375 | 38.2 | .421 | .367 |
| 31682 | 45.6 | 7.56 | .951 | 1.67 | 2.17 | .002 | 30.3 | .811 | .400 |
| 31683 | 34.2 | 12.7 | .670 | 6.08 | .546 | .001 | 37.0 | .225 | .517 |
| 31684 | 42.1 | 4.53 | 5.96 | 1.97 | .057 | .016 | 33.8 | .538 | .300 |
| 31685 | 31.4 | 8.50 | 2.69 | 6.38 | .009 | .002 | 40.2 | .321 | .434 |
| 31686 | 49.2 | 13.8 | 2.52 | 6.15 | 3.41 | .012 | 16.2 | .110 | 2.85 |
| 31687 | 58.4 | 3.97 | 6.56 | 3.58 | .059 | .007 | 19.0 | .285 | .133 |
| 31688 | 47.1 | 14.9 | 2.60 | 6.95 | 3.41 | .013 | 17.6 | .161 | 3.02 |
| 31689 | 43.4 | 12.5 | 3.62 | 5.59 | 2.83 | .019 | 23.9 | .185 | 2.44 |
| 31690 | 47.5 | 13.6 | 8.81 | 4.33 | 4.46 | .025 | 10.4 | .201 | 2.62 |
| 31691 | 43.9 | 15.9 | 3.23 | 6.22 | 4.02 | .019 | 17.5 | .173 | 3.34 |
| 31692 | 51.9 | 13.4 | 2.22 | 5.02 | 3.21 | .007 | 17.3 | .151 | 2.30 |
| 31693 | 50.9 | 15.9 | 3.60 | 6.86 | 4.74 | .053 | 11.4 | .145 | .617 |



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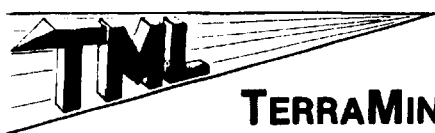
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| Sample No. | SiO ₂ % | Al ₂ O ₃ % | CaO % | MgO % | Na ₂ O % | K ₂ O % | Fe ₂ O ₃ % | MnO % | TiO ₂ % |
|------------|-----------------------|-------------------------------------|----------|----------|------------------------|-----------------------|-------------------------------------|----------|-----------------------|
| 31694 | 48.1 | 14.9 | 8.66 | 5.64 | 4.97 | .112 | 7.82 | .164 | .751 |
| 31695 | 47.9 | 15.7 | 5.92 | 9.28 | 4.39 | .124 | 8.58 | .161 | .534 |
| 31696 | 45.8 | 15.3 | 7.51 | 8.31 | 4.30 | .076 | 9.02 | .183 | .417 |
| 31697 | 45.8 | 12.5 | .473 | 3.61 | 3.19 | .840 | 24.2 | .076 | .450 |
| 31698 | 43.0 | 17.8 | .708 | 14.5 | 2.70 | .236 | 13.5 | .068 | .801 |
| 31699 | 55.2 | 8.12 | 3.79 | 7.25 | .059 | .129 | 12.1 | .410 | .167 |
| 31700 | 44.1 | 17.8 | 1.32 | 6.00 | 3.90 | 1.95 | 15.2 | .250 | .834 |
| 31701 | 52.3 | 16.8 | 1.39 | 7.20 | 4.06 | 1.93 | 9.95 | .186 | 1.03 |
| 31702 | 66.5 | 3.59 | 1.05 | 3.81 | .066 | .045 | 15.3 | .092 | .167 |
| 31703 | 48.8 | 14.6 | 9.88 | 5.29 | 2.22 | 2.21 | 6.31 | .167 | .717 |
| 31704 | 49.8 | 14.7 | 1.89 | 11.2 | 1.40 | 1.36 | 11.5 | .168 | .651 |
| 31705 | 49.6 | 6.61 | 2.83 | 8.47 | .039 | .007 | 19.5 | .294 | .183 |
| 31706 | 56.0 | 3.21 | 1.69 | 8.49 | .011 | .001 | 19.6 | .309 | .117 |
| 31707 | 38.7 | 14.6 | 1.90 | 12.6 | 1.08 | 1.09 | 17.6 | .250 | .817 |
| 31708 | 33.8 | 5.10 | 28.4 | 2.40 | 1.14 | .394 | 3.33 | .063 | .167 |
| 31709 | 29.1 | 3.59 | 33.2 | 2.19 | .148 | .615 | 2.45 | .103 | .200 |
| 31710 | 80.0 | 3.02 | 1.54 | 3.80 | .061 | .025 | 7.29 | .079 | .100 |
| 31711 | 52.0 | 14.6 | 4.39 | 5.74 | 4.49 | 1.30 | 12.0 | .138 | 1.12 |
| 31712 | 52.2 | 16.3 | 7.08 | 6.07 | 4.91 | 1.36 | 8.45 | .103 | .851 |
| 31713 | 50.3 | 15.7 | 5.01 | 7.31 | 3.83 | 1.57 | 11.2 | .117 | 1.08 |
| 31714 | 48.6 | 15.9 | 3.83 | 8.42 | 3.48 | .951 | 11.7 | .134 | .934 |
| 31715 | 46.8 | 15.1 | 9.37 | 3.53 | 5.37 | 1.13 | 7.78 | .139 | .967 |
| 31716 | 49.9 | 12.1 | 2.76 | 3.98 | 4.21 | .988 | 14.9 | .081 | .600 |
| 31717 | 36.6 | 3.02 | 27.3 | 2.37 | .182 | .007 | 4.85 | .229 | .183 |
| 31718 | 36.8 | 4.34 | 27.8 | 2.11 | 1.35 | .028 | 2.66 | .196 | .250 |



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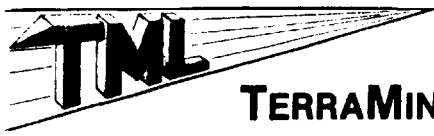
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| Sample No. | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Na ₂ O | K ₂ O | Fe ₂ O ₃ | MnO | TiO ₂ |
|------------|------------------|--------------------------------|------|------|-------------------|------------------|--------------------------------|------|------------------|
| | % | % | % | % | % | % | % | % | % |
| 31719 | 47.1 | 6.99 | 19.0 | 2.70 | 2.31 | .098 | 3.76 | .116 | .384 |
| 31720 | 42.4 | 3.78 | 23.6 | 1.69 | 1.17 | .096 | 4.85 | .145 | .234 |
| 31721 | 37.7 | 3.02 | 29.4 | 1.23 | .960 | .053 | 2.65 | .146 | .200 |
| 31722 | 35.5 | 2.46 | 30.5 | 1.84 | .376 | .067 | 2.15 | .160 | .183 |
| 31723 | 42.1 | 4.53 | 22.4 | 1.27 | 1.71 | .131 | 4.52 | .114 | .234 |
| 31724 | 37.9 | 3.59 | 29.0 | 1.38 | 1.08 | .104 | 2.09 | .143 | .217 |
| 31725 | 38.7 | 3.97 | 23.1 | 2.27 | .084 | .053 | 7.95 | .302 | .250 |
| 31726 | 26.7 | 4.91 | 27.3 | 4.05 | .011 | .007 | 9.25 | .487 | .334 |
| 31727 | 35.7 | 1.70 | 31.5 | 1.26 | .146 | .051 | 2.67 | .320 | .117 |
| 31728 | 47.5 | 15.3 | 5.74 | 9.45 | 2.82 | .909 | 7.69 | .115 | .801 |
| 31729 | 47.7 | 16.4 | 3.51 | 9.82 | 4.42 | .139 | 8.84 | .107 | .851 |
| 31730 | 50.3 | 16.6 | 1.16 | 9.73 | 4.15 | .070 | 13.0 | .102 | .801 |
| 31731 | 59.0 | 1.89 | 2.95 | 1.02 | .121 | .124 | 27.2 | .229 | .083 |
| 31732 | 31.4 | 3.40 | 2.85 | 3.28 | .013 | .070 | 40.8 | 1.12 | .234 |
| 31733 | 46.0 | 15.1 | .687 | 8.92 | 2.06 | .023 | 20.6 | .081 | .751 |
| 31734 | 44.1 | 2.46 | 16.0 | 4.33 | .158 | .275 | 17.7 | .279 | .050 |
| 31735 | 42.8 | 1.32 | 11.0 | 4.44 | .154 | .500 | 29.5 | .480 | .067 |
| 31736 | 47.9 | 2.08 | 8.20 | 5.29 | .344 | .737 | 27.6 | .292 | .067 |
| 31737 | 46.8 | 6.80 | 1.29 | 4.05 | .036 | .084 | 32.9 | .050 | .384 |
| 31738 | 39.4 | 14.6 | .634 | 6.91 | 1.82 | .016 | 29.5 | .080 | 1.02 |
| 31739 | 40.6 | 15.5 | .651 | 6.57 | 1.94 | .016 | 28.2 | .080 | 1.22 |
| 31740 | 47.9 | 13.8 | .887 | 3.50 | 5.19 | .027 | 23.2 | .049 | .734 |
| 31741 | 28.7 | 6.04 | 10.4 | 6.50 | .011 | .007 | 29.7 | .484 | .300 |
| 31742 | 48.6 | 14.7 | .658 | 7.83 | 2.60 | .013 | 20.0 | .065 | .867 |
| 31743 | 46.4 | 12.9 | .553 | 9.28 | .249 | .008 | 22.2 | .065 | .984 |



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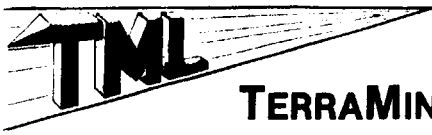
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| Sample No. | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Na ₂ O | K ₂ O | Fe ₂ O ₃ | MnO | TiO ₂ |
|------------|------------------|--------------------------------|------|------|-------------------|------------------|--------------------------------|------|------------------|
| | % | % | % | % | % | % | % | % | % |
| 31744 | 37.7 | 14.0 | .478 | 8.04 | .027 | .001 | 32.8 | .076 | .701 |
| 31745 | 37.4 | 13.2 | 1.33 | 8.79 | .096 | .065 | 30.0 | .212 | .684 |
| 31746 | 51.3 | 15.9 | 3.78 | 5.90 | 5.39 | .133 | 10.4 | .265 | .684 |
| 31747 | 51.6 | 15.3 | 2.53 | 8.09 | 3.96 | .214 | 10.5 | .112 | .884 |
| 31748 | 40.4 | 7.37 | 24.3 | 2.16 | 2.93 | .196 | 3.33 | .287 | .284 |
| 31749 | 41.5 | 2.64 | 27.3 | 1.67 | .080 | .269 | 2.89 | .236 | .200 |
| 31750 | 46.4 | 14.7 | 9.83 | 6.47 | 4.39 | .301 | 8.15 | .183 | .734 |
| 41751 | 47.1 | 15.3 | 3.15 | 11.5 | 2.91 | .095 | 12.0 | .112 | .767 |
| 41752 | 44.5 | 15.7 | 7.90 | 6.93 | 4.88 | .174 | 9.94 | .148 | .767 |
| 41753 | 50.5 | 16.4 | 1.85 | 6.60 | 5.46 | .089 | 12.3 | .084 | .801 |
| 41754 | 49.6 | 15.7 | 3.13 | 6.81 | 4.89 | .046 | 13.0 | .117 | .767 |
| 41755 | 46.6 | 12.7 | 8.67 | 5.14 | 3.71 | .054 | 13.7 | .219 | .734 |
| 41756 | 46.4 | 3.59 | 8.59 | 3.50 | .031 | .014 | 27.2 | .484 | .217 |
| 41757 | 54.6 | 7.37 | .788 | 2.39 | .020 | .022 | 26.7 | .229 | .367 |
| 41758 | 56.2 | 6.80 | .958 | 3.12 | .775 | .051 | 25.9 | .142 | .350 |
| 41759 | 82.0 | 3.02 | .797 | 1.77 | .020 | .010 | 10.1 | .089 | .083 |
| 41760 | 71.1 | 4.34 | .979 | 2.32 | .034 | .010 | 17.5 | .040 | .117 |
| 41761 | 45.4 | 15.5 | .954 | 2.84 | 5.77 | .059 | 22.6 | .173 | .584 |
| 41762 | 27.4 | 15.3 | .568 | 10.5 | .013 | .005 | 38.0 | .099 | 1.28 |
| 41763 | 52.6 | 12.7 | .630 | 3.80 | 2.56 | .011 | 22.9 | .072 | .801 |
| 41764 | 66.0 | 7.56 | .405 | 2.67 | .278 | .005 | 19.9 | .070 | .284 |
| 41765 | 48.6 | 6.61 | 15.1 | 2.02 | .166 | .022 | 18.6 | .377 | .150 |
| 41766 | 50.8 | 4.34 | 7.95 | 3.28 | .493 | .734 | 24.8 | .247 | .183 |
| 41767 | 50.9 | 14.2 | 6.35 | 5.95 | 3.69 | .039 | 12.0 | .167 | .751 |
| 41768 | 51.8 | 7.37 | 1.86 | 3.96 | 2.28 | 1.16 | 18.2 | .058 | 1.75 |



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| Sample No. | SiO ₂ % | Al ₂ O ₃ % | CaO % | MgO % | Na ₂ O % | K ₂ O % | Fe ₂ O ₃ % | MnO % | TiO ₂ % |
|------------|-----------------------|-------------------------------------|----------|----------|------------------------|-----------------------|-------------------------------------|----------|-----------------------|
| 41769 | 43.9 | 2.08 | .145 | .197 | .565 | .029 | 35.6 | .058 | 2.25 |
| 41770 | 37.9 | 15.5 | .623 | 7.05 | 1.98 | .002 | 28.9 | .083 | .751 |
| 41771 | 51.1 | 2.64 | .351 | 1.43 | -.001 | .022 | 37.0 | .079 | .117 |
| 41772 | 40.4 | 8.50 | 5.37 | 7.69 | -.001 | .010 | 28.0 | .310 | .500 |
| 41773 | 58.6 | 3.78 | 4.67 | 1.27 | .013 | .011 | 25.7 | .137 | .117 |
| 41774 | 65.1 | 5.67 | .348 | 3.37 | .233 | .018 | 21.9 | .037 | .267 |
| 41775 | 49.6 | 14.9 | 13.8 | 5.09 | .909 | .223 | 12.9 | .176 | .717 |
| 41776 | 39.8 | 2.08 | 4.32 | 2.14 | .030 | .061 | 37.3 | .549 | .117 |
| 41777 | 76.6 | 3.40 | .767 | .817 | .936 | .036 | 15.9 | .028 | .150 |
| 41778 | 51.3 | 7.74 | 2.32 | 4.38 | .003 | .001 | 26.5 | .399 | .384 |
| 31779 | 46.0 | 13.6 | .932 | 6.05 | 2.45 | .011 | 24.7 | .172 | .684 |
| 41780 | 49.8 | 14.4 | 1.02 | 6.07 | 3.60 | .014 | 21.3 | .102 | .684 |
| 41781 | 44.1 | 11.3 | 6.43 | 15.9 | 1.34 | .596 | 12.4 | .190 | 1.17 |
| 41782 | 45.1 | 13.8 | 6.41 | 11.3 | 2.68 | 1.13 | 13.9 | .185 | 1.17 |
| 41783 | 49.0 | 15.7 | 1.39 | 4.91 | 4.99 | .063 | 17.7 | .195 | .934 |
| 41784 | 50.5 | 15.9 | 1.25 | 4.87 | 4.87 | .019 | 17.7 | .125 | .884 |
| 41785 | 46.8 | 16.1 | 1.24 | 6.57 | 3.49 | .012 | 19.0 | .148 | 1.28 |
| 41786 | 53.8 | 8.12 | 3.83 | 4.48 | .170 | .192 | 20.5 | .270 | .334 |
| 41787 | 38.1 | 3.21 | 26.0 | 2.04 | .115 | .088 | 5.73 | .380 | .167 |
| 41788 | 39.8 | 2.83 | 25.9 | 2.35 | .055 | .031 | 5.22 | .378 | .133 |
| 41789 | 63.5 | 8.31 | 5.93 | 2.55 | 4.79 | .075 | 4.95 | .205 | .100 |
| 41790 | 38.5 | 4.16 | 23.9 | 1.47 | .288 | .016 | 9.52 | .473 | .234 |
| 41791 | 51.6 | 7.37 | 9.30 | 6.18 | .026 | .017 | 14.1 | .247 | .434 |
| 41792 | 48.6 | 3.21 | 14.3 | 3.60 | .186 | .622 | 12.2 | .782 | .133 |
| 41793 | 37.5 | 4.91 | 24.6 | 2.88 | .816 | .010 | 6.62 | .298 | .267 |



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| Sample No. | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Na ₂ O | K ₂ O | Fe ₂ O ₃ | MnO | TiO ₂ |
|------------|------------------|--------------------------------|------|------|-------------------|------------------|--------------------------------|------|------------------|
| | % | % | % | % | % | % | % | % | % |
| 41794 | 49.5 | 10.2 | 11.1 | 4.21 | 3.29 | .012 | 10.1 | .172 | .517 |
| 41795 | 44.9 | 8.50 | 16.6 | 3.51 | 2.45 | .013 | 7.91 | .226 | .400 |
| 41796 | 43.4 | 8.12 | 18.5 | 3.32 | 2.37 | .012 | 7.19 | .253 | .400 |
| 41797 | 38.1 | 4.91 | 24.1 | 2.88 | .971 | -.001 | 6.21 | .288 | .267 |
| 41798 | 43.9 | 9.45 | 9.56 | 6.17 | .264 | .005 | 19.5 | .190 | .450 |
| 41799 | 44.9 | 8.69 | 10.2 | 3.86 | .035 | .001 | 21.0 | .244 | .417 |
| 41800 | 45.6 | 4.53 | 11.8 | 3.61 | .011 | .001 | 18.2 | .731 | .200 |
| 41801 | 55.4 | 6.23 | 2.28 | 4.64 | .249 | .368 | 22.6 | .314 | .384 |
| 41802 | 44.1 | 4.34 | 2.83 | 9.63 | .546 | .782 | 28.2 | .148 | .250 |
| 41803 | 45.4 | 10.4 | 1.55 | 8.09 | .249 | .323 | 26.2 | .183 | .500 |
| 41804 | 45.4 | 10.6 | .760 | 6.78 | .179 | .178 | 27.6 | .108 | .550 |
| 41805 | 49.2 | 9.82 | 4.70 | 8.64 | .012 | .004 | 19.7 | .125 | .550 |
| 41806 | 55.4 | 6.42 | .715 | 4.49 | .142 | .169 | 26.3 | .067 | .350 |
| 41807 | 48.1 | 5.48 | 9.79 | 3.15 | .864 | .549 | 22.6 | .187 | .117 |
| 41808 | 47.1 | 11.5 | .981 | 7.31 | .306 | .023 | 27.0 | .090 | .600 |
| 41809 | 46.8 | 14.9 | 1.15 | 5.59 | 3.41 | .064 | 22.9 | .084 | .617 |
| 41810 | 40.2 | 16.1 | 1.07 | 6.96 | 2.95 | .036 | 25.9 | .083 | .600 |
| 41811 | 48.8 | 10.4 | .949 | 3.63 | 3.02 | .020 | 26.2 | .056 | .550 |
| 41812 | 52.4 | 9.45 | .642 | 7.34 | .186 | .111 | 24.0 | .079 | .517 |
| 41813 | 41.9 | 11.9 | 1.34 | 11.1 | .066 | .016 | 26.6 | .112 | .600 |
| 41814 | 51.1 | 3.02 | 8.95 | 5.37 | 1.03 | .213 | 28.5 | .199 | .167 |
| 41815 | 41.9 | 7.56 | 7.37 | 10.4 | .240 | .029 | 27.9 | .207 | .450 |
| 41816 | 54.8 | 12.5 | 3.72 | 2.82 | 5.59 | .296 | 13.5 | .148 | .967 |
| 41817 | 51.8 | 14.0 | 2.71 | 4.24 | 5.26 | .202 | 16.9 | .148 | 1.15 |

$$\left\{ \begin{array}{l} \text{Fe}_2\text{O}_3 = .264 \text{ Fe}_{\text{total}} \quad .251 \\ \text{FeO} = \frac{.762}{1.026} \text{ Fe}_{\text{total}} \quad .749 \end{array} \right.$$