**GSA Data Repository Item #** 8620

**Title of article** Pre-Acadian magmatic suites of the southeastern Gaspé Peninsula

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see Bulletin v. 97, p. 1177 - 1191

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Appendix

| | DYKES | CUTTING MICTAW GROUP | | | DYKES NORTH OF CHANDLER | | RAUDIN SUITE DIOR. | CONTACT |
|---|---|---|---|---|---|---|---|---|
| # : | JB83-43 | 83-44 | 92176 | 92179 | 83-45 | 83-46 | 83-26 | 83-34 |
| SiO2 | 49.00 | 48.90 | 49.20 | 48.20 | 47.40 | 48.80 | 53.00 | 67.50 |
| TiO2 | 3.05 | 2.25 | 1.90 | 1.90 | 1.12 | 2.00 | 1.52 | .23 |
| Al2O3 | 12.00 | 13.00 | 12.90 | 13.80 | 14.90 | 13.80 | 16.00 | 13.50 |
| Fe2O3 | 4.70 | 3.20 | 2.10 | 3.10 | 3.31 | 3.16 | 1.05 | .39 |
| FeO | 11.20 | 10.30 | 10.50 | 9.78 | 7.46 | 8.14 | 5.92 | 1.36 |
| (FeO*) | 15.43 | 13.18 | 12.39 | 12.57 | 10.44 | 10.98 | 6.86 | 1.71 |
| MnO | .26 | .28 | .31 | .21 | .19 | .16 | .12 | .02 |
| MgO | 4.24 | 5.70 | 6.20 | 5.76 | 7.77 | 8.57 | 2.45 | .65 |
| CaO | 6.93 | 6.79 | 7.06 | 7.96 | 8.13 | 6.94 | 7.51 | 3.60 |
| Na2O | 3.50 | 4.45 | 4.36 | 3.95 | 2.68 | 3.80 | 3.09 | 3.06 |
| K2O | .40 | .21 | .30 | .45 | 1.42 | .82 | 1.99 | 2.42 |
| P2O5 | .28 | .18 | .18 | .18 | .06 | .24 | .40 | .05 |
| TRACES | .15 | .17 | .20 | .17 | .26 | .24 | .21 | .12 |
| H2O | 2.95 | 3.36 | 3.20 | 3.00 | 2.96 | 4.40 | 1.60 | 2.46 |
| CO2 | .08 | .05 | .00 | .00 | .07 | .25 | 4.25 | 2.59 |
| S | .12 | .03 | .16 | .08 | .05 | .04 | .06 | .04 |
| TOTAL | 98.80 | 98.86 | 98.49 | 98.50 | 97.75 | 101.34 | 99.14 | 97.97 |
| CATIONS | | | | | | | | |
| Si | 49.04 | 47.90 | 48.06 | 47.17 | 46.38 | 46.54 | 53.25 | 68.20 |
| Ti | 2.30 | 1.66 | 1.40 | 1.40 | .82 | 1.43 | 1.15 | .17 |
| Al | 14.15 | 15.01 | 14.85 | 15.92 | 17.18 | 15.51 | 18.95 | 16.07 |
| Fe | 12.91 | 10.79 | 10.12 | 10.28 | 8.54 | 8.76 | 5.77 | 1.45 |
| Mn | .22 | .23 | .26 | .17 | .16 | .13 | .10 | .02 |
| Mg | 6.33 | 8.32 | 9.03 | 8.40 | 11.33 | 12.18 | 3.67 | .98 |
| Ca | 7.43 | 7.12 | 7.39 | 8.35 | 8.52 | 7.09 | 8.08 | 3.90 |
| Na | 6.79 | 8.45 | 8.26 | 7.49 | 5.08 | 7.03 | 6.02 | 5.99 |
| K | .51 | .26 | .37 | .56 | 1.77 | 1.00 | 2.55 | 3.12 |
| P | .24 | .15 | .15 | .15 | .05 | .19 | .34 | .04 |
| TRACES | .09 | .11 | .11 | .10 | .15 | .15 | .12 | .06 |
| O -2 | 155.19 | 153.02 | 152.88 | 152.81 | 152.52 | 152.08 | 160.15 | 171.93 |
| S | .23 | .06 | .29 | .15 | .09 | .07 | .11 | .08 |
| MgO/ (FeO*+MgO) | .2156 | .3019 | .3335 | .3143 | .4268 | .4383 | .2630 | .2753 |
| Mg/ (Fe*+Mg) | .3289 | .4354 | .4715 | .4497 | .5703 | .5818 | .3889 | .4038 |
| (Na+K)/Al | .5159 | .5806 | .5812 | .5062 | .3990 | .5173 | .4523 | .5669 |
| FACTEUR LARSEN MODIFIE = 1/3Si+K-Ca-Mg | .4564 | -.4972 | -.8702 | -1.2794 | -1.9322 | -1.8441 | 3.0643 | 9.5601 |

TABLEAU 5C

| | PABOS SUITE | | | | DYKES CUTTING THE MICTAW GROUP | | | |
|---|---|---|---|---|---|---|---|---|
| # : | DP-13 | JB83-37 | 83-36 | MM-108 | 83-38 | 83-42 | 83-41 | GB1146 |
| SiO2 | 49.60 | 48.40 | 46.80 | 49.10 | 42.50 | 48.50 | 48.50 | 50.60 |
| TiO2 | .94 | 1.55 | 1.54 | 1.91 | 1.72 | 2.31 | 2.23 | 1.89 |
| Al2O3 | 14.40 | 13.60 | 13.30 | 13.40 | 14.60 | 14.00 | 13.40 | 12.60 |
| Fe2O3 | 2.16 | 1.80 | 1.60 | .93 | 10.80 | 4.78 | 3.60 | 13.80 |
| FeO | 6.88 | 9.16 | 9.11 | 11.40 | -- | 8.21 | 10.10 | -- |
| (FeO*) | 8.82 | 10.78 | 10.55 | 12.24 | 9.71 | 12.51 | 13.34 | 12.41 |
| MnO | .15 | .19 | .20 | .22 | .32 | .18 | .31 | .16 |
| MgO | 7.43 | 6.44 | 6.06 | 5.76 | 4.42 | 6.01 | 6.05 | 5.50 |
| CaO | 13.10 | 8.52 | 8.61 | 9.16 | 10.40 | 8.50 | 6.05 | 6.34 |
| Na2O | 2.06 | 2.15 | 2.22 | 3.22 | 3.01 | 2.69 | 4.34 | 4.77 |
| K2O | .14 | .33 | .33 | .43 | .67 | .15 | .45 | .16 |
| P2O5 | < .03 | .07 | .09 | .12 | .10 | .18 | .18 | .18 |
| TRACES | .13 | .16 | .17 | .15 | .22 | .17 | .25 | .16 |
| H2O | 1.64 | 3.94 | 4.50 | 2.98 | 4.52 | 3.30 | 3.98 | 3.08 |
| CO2 | .14 | 3.71 | 5.22 | .04 | 7.61 | .09 | .05 | .18 |
| S | .17 | .12 | .13 | .02 | .46 | .05 | .16 | .20 |
| TOTAL | 98.86 | 100.08 | 99.81 | 98.83 | 101.12 | 99.09 | 99.57 | 99.52 |
| CATIONS | | | | | | | | |
| Si | 47.62 | 49.26 | 48.86 | 48.07 | 45.20 | 47.98 | 47.47 | 49.57 |
| Ti | .68 | 1.19 | 1.21 | 1.41 | 1.38 | 1.72 | 1.64 | 1.39 |
| Al | 16.29 | 16.31 | 16.36 | 15.46 | 18.30 | 16.32 | 15.46 | 14.55 |
| Fe | 7.08 | 9.17 | 9.21 | 10.02 | 8.64 | 10.35 | 10.92 | 10.17 |
| Mn | .12 | .16 | .18 | .18 | .29 | .15 | .26 | .13 |
| Mg | 10.63 | 9.77 | 9.43 | 8.41 | 7.01 | 8.86 | 8.83 | 8.03 |
| Ca | 13.47 | 9.29 | 9.63 | 9.61 | 11.85 | 9.01 | 6.34 | 6.65 |
| Na | 3.83 | 4.24 | 4.49 | 6.11 | 6.21 | 5.16 | 8.24 | 9.06 |
| K | .17 | .43 | .44 | .54 | .91 | .19 | .56 | .20 |
| P | -- | .06 | .08 | .10 | .09 | .15 | .15 | .15 |
| TRACES | .09 | .10 | .11 | .09 | .14 | .11 | .14 | .10 |
| O -2 | 154.50 | 156.44 | 155.98 | 154.11 | 152.39 | 155.50 | 152.75 | 153.91 |
| S | .31 | .23 | .25 | .04 | .92 | .09 | .29 | .37 |
| MgO/ (FeO*+MgO) | .4572 | .3740 | .3649 | .3201 | .3128 | .3245 | .3121 | .3071 |
| Mg/ (Fe*+Mg) | .6002 | .5158 | .5060 | .4563 | .4479 | .4614 | .4471 | .4414 |
| (Na+K)/Al | .2459 | .2863 | .3014 | .4300 | .3888 | .3277 | .5691 | .6365 |
| FACTEUR LARSEN MODIFIE = 1/3Si+K-Ca-Mg | -5.9991 | -2.1581 | -2.2425 | -2.0134 | -2.9206 | -2.0183 | -.0424 | .1684 |

CASCAPEDIA NORD SUITE

| | UN-CONTAMINES | | | | : | CONTAMINATED | | |
|---|---|---|---|---|---|---|---|---|
| # | JB83-110 | 83-111 | 83-112 | 83-113 | 83-96 | 83-97 | 83-109 | 83-109C |
| SiO2 | 45.30 | 43.40 | 45.80 | 47.00 | 51.30 | 54.30 | 56.20 | 58.80 |
| TiO2 | 1.30 | 1.32 | 1.25 | 1.12 | 1.00 | 1.03 | .98 | 1.07 |
| Al2O3 | 15.90 | 15.20 | 15.40 | 16.10 | 15.10 | 14.90 | 14.20 | 15.60 |
| Fe2O3 | 1.38 | 11.10 | 2.70 | 2.20 | .88 | .77 | 6.73 | .92 |
| FeO | 7.52 | -- | 7.02 | 6.79 | 5.15 | 4.23 | -- | 5.62 |
| (FeO*) | 8.76 | 9.98 | 9.45 | 8.77 | 5.94 | 4.92 | 6.05 | 6.45 |
| MnO | .14 | .13 | .12 | .14 | .08 | .08 | .05 | .07 |
| MgO | 7.01 | 7.82 | 7.54 | 8.39 | 7.36 | 5.78 | 5.32 | 5.32 |
| CaO | 10.00 | 8.34 | 9.60 | 6.62 | 4.58 | 5.93 | 3.79 | 2.08 |
| Na2O | 2.48 | 1.94 | 2.72 | 3.06 | 4.62 | 5.28 | 3.41 | 4.79 |
| K2O | .52 | .62 | .82 | 1.60 | .76 | 1.32 | 1.80 | 1.45 |
| P2O5 | .17 | .12 | .16 | .14 | .55 | .48 | .34 | .35 |
| TRACES | .22 | .20 | .19 | .25 | .34 | .31 | .23 | .30 |
| H2O | 3.82 | 5.40 | 4.86 | 6.54 | 4.02 | 2.74 | 3.88 | 3.36 |
| CO2 | 4.02 | 4.66 | .05 | .34 | 5.61 | 4.66 | 2.66 | 1.48 |
| S | .08 | .48 | .14 | .01 | .09 | .07 | .27 | .18 |
| TOTAL | 99.82 | 100.49 | 98.30 | 100.30 | 101.39 | 101.84 | 99.73 | 101.30 |

CATIONS

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Si | 45.58 | 45.14 | 45.35 | 46.03 | 50.62 | 52.07 | 56.15 | 55.90 |
| Ti | .98 | 1.03 | .93 | .82 | .74 | .74 | .74 | .76 |
| Al | 18.86 | 18.63 | 17.97 | 18.58 | 17.56 | 16.84 | 16.72 | 17.48 |
| Fe | 7.37 | 8.68 | 7.82 | 7.18 | 4.90 | 3.95 | 5.06 | 5.13 |
| Mn | .12 | .11 | .10 | .12 | .07 | .06 | .04 | .06 |
| Mg | 10.52 | 12.13 | 11.13 | 12.25 | 10.83 | 8.26 | 7.92 | 7.54 |
| Ca | 10.78 | 9.29 | 10.18 | 6.95 | 4.84 | 6.09 | 4.06 | 2.12 |
| Na | 4.84 | 3.91 | 5.22 | 5.81 | 8.84 | 9.82 | 6.61 | 8.83 |
| K | .67 | .82 | 1.04 | 2.00 | .96 | 1.61 | 2.29 | 1.76 |
| P | .14 | .11 | .13 | .12 | .46 | .39 | .29 | .28 |
| TRACES | .14 | .13 | .12 | .15 | .19 | .17 | .13 | .15 |
| O -2 | 153.52 | 153.35 | 152.39 | 152.46 | 155.98 | 156.15 | 161.27 | 160.58 |
| S | .15 | .94 | .26 | .02 | .17 | .13 | .51 | .32 |
| MgO/ (FeO*+MgO) | .4445 | .4393 | .4438 | .4890 | .5533 | .5401 | .4678 | .4521 |
| Mg/ (Fe*+Mg) | .5879 | .5828 | .5873 | .6304 | .6883 | .6767 | .6105 | .5953 |
| (Na+K)/Al | .2920 | .2541 | .3482 | .4202 | .5578 | .6788 | .5322 | .6057 |
| FACTEUR LARSEN MODIFIE = 1/3Si+K-Ca-Mg | -3.8847 | -3.3997 | -3.5915 | -1.1398 | .9118 | 1.8320 | 4.3333 | 5.6699 |

RAUDIN SUITE : FELSITES

| # : | JB83-35 | 83-40 | MM-310 | SP-29 | MM-214 | GB2154 | 83-58 | 83-69 |
|---|---|---|---|---|---|---|---|---|
| SiO2 | 69.30 | 60.00 | 70.40 | 61.70 | 63.10 | 68.60 | 69.40 | 64.20 |
| TiO2 | .24 | .93 | .26 | .64 | .65 | .25 | .31 | .26 |
| Al2O3 | 14.00 | 15.40 | 14.10 | 13.30 | 14.20 | 14.60 | 15.60 | 17.20 |
| Fe2O3 | .58 | .86 | .77 | .51 | 1.57 | 1.39 | .56 | .25 |
| FeO | 1.27 | 3.59 | 1.12 | 2.36 | 2.32 | .76 | 1.26 | 4.88 |
| (FeO*) | 1.79 | 4.36 | 1.81 | 2.82 | 3.73 | 2.01 | 1.76 | 5.10 |
| MnO | .03 | .05 | .01 | .06 | .05 | .02 | .03 | .12 |
| MgO | .90 | 1.47 | .70 | 1.93 | 1.59 | 2.54 | 1.25 | .75 |
| CaO | 2.08 | 5.08 | 3.57 | 5.08 | 4.50 | 1.00 | .41 | .44 |
| Na2O | 3.68 | 3.24 | .92 | 2.73 | 2.86 | 2.37 | 6.80 | 4.93 |
| K2O | 2.16 | 2.02 | 1.66 | 2.86 | 2.73 | 3.10 | .75 | 2.72 |
| P2O5 | .05 | .28 | .11 | .06 | .22 | .05 | .10 | .19 |
| TRACES | .13 | .20 | .12 | .22 | .18 | .11 | .10 | .13 |
| H2O | 2.18 | 3.24 | 4.73 | 1.60 | 2.10 | 3.90 | 1.80 | 2.00 |
| CO2 | 1.62 | 3.95 | 2.83 | 6.22 | 3.91 | .26 | .21 | 3.76 |
| S | .01 | .09 | .02 | .02 | .01 | .01 | .01 | .06 |
| TOTAL | 98.23 | 100.36 | 101.31 | 99.28 | 99.99 | 98.96 | 98.59 | 101.86 |

CATIONS

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Si | 68.57 | 60.38 | 72.09 | 63.16 | 63.11 | 67.79 | 65.41 | 61.80 |
| Ti | .18 | .70 | .20 | .49 | .49 | .19 | .22 | .19 |
| Al | 16.32 | 18.26 | 17.02 | 16.05 | 16.74 | 17.00 | 17.33 | 19.51 |
| Fe | 1.48 | 3.67 | 1.55 | 2.41 | 3.12 | 1.66 | 1.39 | 4.11 |
| Mn | .03 | .04 | .01 | .05 | .04 | .02 | .02 | .10 |
| Mg | 1.33 | 2.21 | 1.07 | 2.95 | 2.37 | 3.74 | 1.76 | 1.08 |
| Ca | 2.20 | 5.48 | 3.92 | 5.57 | 4.82 | 1.06 | .41 | .45 |
| Na | 7.06 | 6.32 | 1.83 | 5.42 | 5.55 | 4.54 | 12.42 | 9.20 |
| K | 2.73 | 2.59 | 2.17 | 3.73 | 3.48 | 3.91 | .90 | 3.34 |
| P | .04 | .24 | .10 | .05 | .19 | .04 | .08 | .15 |
| TRACES | .06 | .10 | .06 | .12 | .10 | .06 | .06 | .06 |
| O -2 | 172.09 | 166.15 | 178.96 | 167.21 | 167.76 | 172.33 | 167.76 | 165.75 |
| S | .02 | .17 | .04 | .04 | .02 | .02 | .02 | .11 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| MgO/ (FeO*+MgO) | .3344 | .2520 | .2786 | .4064 | .2988 | .5582 | .4148 | .1281 |
| Mg/ (Fe*+Mg) | .4725 | .3752 | .4078 | .5497 | .4317 | .6926 | .5582 | .2076 |
| (Na+K)/Al | .5994 | .4881 | .2348 | .5704 | .5394 | .4969 | .7691 | .6427 |

FACTEUR LARSEN MODIFIE = 1/3Si+K-Ca-Mg

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 10.5603 | 6.5074 | 9.3723 | 7.1922 | 7.9219 | 11.0146 | 10.3878 | 11.4932 |

| | FELSITES | | : STEWART | | RIVER | SUITE | |
|---|---|---|---|---|---|---|---|
| # : | JB83-71 | MS0231A | 83-63 | 83-64 | 83-65 | 83-66 | 83-67 |
| SiO2 | 65.50 | 64.70 | 45.90 | 40.00 | 57.00 | 43.80 | 53.20 |
| TiO2 | .22 | .14 | 1.75 | 1.80 | 1.13 | 1.49 | 1.40 |
| Al2O3 | 17.10 | 15.50 | 14.70 | 14.40 | 14.20 | 13.00 | 13.50 |
| Fe2O3 | .26 | .19 | 1.43 | 9.56 | 6.07 | 11.07 | .93 |
| FeO | 4.18 | 3.34 | 7.52 | -- | -- | -- | 4.71 |
| (FeO*) | 4.41 | 3.51 | 8.81 | 8.60 | 5.46 | 9.96 | 5.55 |
| MnO | .12 | .05 | .07 | .11 | .03 | .12 | .07 |
| MgO | .68 | .52 | 7.85 | 6.66 | 6.80 | 8.68 | 6.50 |
| CaO | .39 | 1.27 | 5.95 | 8.21 | 2.03 | 7.41 | 3.85 |
| Na2O | 4.72 | 6.05 | 2.81 | 2.80 | 3.48 | 2.56 | 2.77 |
| K2O | 2.59 | 1.92 | 1.23 | 1.30 | 2.82 | 1.02 | 4.03 |
| P2O5 | .15 | .13 | .58 | .60 | .42 | .43 | .65 |
| TRACES | .15 | .12 | .33 | .37 | .26 | .37 | .32 |
| H2O | 1.94 | 1.06 | 5.68 | 4.76 | 4.38 | 4.18 | 3.60 |
| CO2 | 3.23 | 3.41 | 3.82 | 8.80 | 1.45 | 6.20 | 5.46 |
| S | .03 | .01 | .17 | .43 | .29 | .29 | .06 |
| TOTAL | 101.25 | 98.41 | 99.70 | 99.59 | 100.21 | 100.47 | 101.02 |
| | | | CATIONS | | | | |
| Si | 63.17 | 63.10 | 46.96 | 43.41 | 55.70 | 45.43 | 53.24 |
| Ti | .16 | .10 | 1.35 | 1.47 | .83 | 1.16 | 1.05 |
| Al | 19.43 | 17.82 | 17.72 | 18.42 | 16.35 | 15.89 | 15.92 |
| Fe | 3.56 | 2.86 | 7.53 | 7.80 | 4.46 | 8.63 | 4.64 |
| Mn | .10 | .04 | .06 | .10 | .02 | .11 | .06 |
| Mg | .98 | .76 | 11.97 | 10.77 | 9.91 | 13.42 | 9.70 |
| Ca | .40 | 1.33 | 6.52 | 9.54 | 2.13 | 8.23 | 4.13 |
| Na | 8.82 | 11.44 | 5.57 | 5.89 | 6.59 | 5.15 | 5.37 |
| K | 3.19 | 2.39 | 1.61 | 1.80 | 3.52 | 1.35 | 5.14 |
| P | .12 | .11 | .50 | .55 | .35 | .38 | .55 |
| TRACES | .07 | .06 | .20 | .25 | .15 | .24 | .19 |
| O -2 | 167.26 | 165.39 | 154.41 | 151.16 | 160.23 | 151.93 | 157.88 |
| S | .05 | .02 | .33 | .87 | .53 | .56 | .11 |
| MgO/ (FeO*+MgO) | .1335 | .1290 | .4713 | .4365 | .5547 | .4658 | .5396 |
| Mg/ (Fe*+Mg) | .2155 | .2089 | .6138 | .5800 | .6895 | .6085 | .6763 |
| (Na+K)/Al | .6180 | .7762 | .4050 | .4176 | .6181 | .4089 | .6606 |
| FACTEUR LARSEN MODIFIE = 1/3Si+K-Ca-Mg | 11.6657 | 10.4524 | -.8139 | -2.5726 | 5.6701 | -2.8593 | 4.9627 |

| | DYKES STEWART RIVER STEWART | | | RUISSEAU ALAIN | | GRANDE CASCAPEDIA SUD | |
|---|---|---|---|---|---|---|---|
| # : | JB83-68 | 83-73 | MS0231B | 83-74 | 83-75 | F83-4 | F83-5 |
| SiO2 | 52.20 | 47.10 | 54.00 | 48.00 | 48.20 | 46.10 | 46.20 |
| TiO2 | 1.42 | 1.42 | 1.31 | 3.01 | 2.27 | 3.38 | 3.49 |
| Al2O3 | 14.00 | 14.90 | 14.80 | 16.70 | 16.90 | 16.20 | 14.90 |
| Fe2O3 | 1.09 | .57 | 1.29 | 1.96 | 1.17 | 14.40 | 13.00 |
| FeO | 5.00 | 5.60 | 5.79 | 9.76 | 8.97 | -- | -- |
| (FeO*) | 5.98 | 6.11 | 6.95 | 11.52 | 10.02 | 12.95 | 11.69 |
| MnO | .05 | .09 | .09 | .12 | .07 | .22 | .21 |
| MgO | 6.71 | 3.75 | 6.61 | 5.49 | 4.75 | 5.71 | 5.09 |
| CaO | 4.12 | 5.94 | 3.40 | 3.23 | 3.82 | 4.53 | 7.14 |
| Na2O | 2.96 | 4.75 | 4.39 | 4.58 | 5.01 | 2.44 | 3.31 |
| K2O | 3.86 | 2.18 | 1.34 | 1.52 | 1.02 | .80 | .82 |
| P2O5 | .67 | .43 | .55 | .52 | .27 | .35 | .50 |
| TRACES | .30 | .12 | .23 | .28 | .16 | .29 | .34 |
| H2O | 3.50 | 2.16 | 4.34 | 5.38 | 4.74 | 4.74 | 3.42 |
| CO2 | 5.79 | 7.92 | 2.24 | .23 | 2.21 | .58 | .29 |
| S | .07 | .13 | .04 | .19 | .08 | .59 | .48 |
| TOTAL | 101.70 | 97.00 | 100.40 | 100.87 | 99.60 | 100.03 | 98.95 |

CATIONS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Si | 51.87 | 49.42 | 52.62 | 46.72 | 47.83 | 46.89 | 46.36 |
| Ti | 1.06 | 1.12 | .96 | 2.20 | 1.69 | 2.58 | 2.63 |
| Al | 16.40 | 18.43 | 16.99 | 19.16 | 19.76 | 19.42 | 17.62 |
| Fe | 4.97 | 5.36 | 5.66 | 9.38 | 8.32 | 11.01 | 9.81 |
| Mn | .04 | .08 | .07 | .10 | .06 | .19 | .18 |
| Mg | 9.94 | 5.87 | 9.60 | 7.97 | 7.03 | 8.66 | 7.61 |
| Ca | 4.39 | 6.68 | 3.55 | 3.37 | 4.06 | 4.94 | 7.68 |
| Na | 5.70 | 9.66 | 8.29 | 8.64 | 9.64 | 4.81 | 6.44 |
| K | 4.89 | 2.92 | 1.67 | 1.89 | 1.29 | 1.04 | 1.05 |
| P | .56 | .38 | .45 | .43 | .23 | .30 | .42 |
| TRACES | .17 | .08 | .13 | .15 | .09 | .17 | .19 |
| O -2 | 156.74 | 154.08 | 157.82 | 153.95 | 154.35 | 156.79 | 154.79 |
| S | .13 | .26 | .07 | .35 | .15 | 1.12 | .90 |
| MgO/ (FeO*+MgO) | .5288 | .3802 | .4875 | .3227 | .3216 | .3060 | .3033 |
| Mg/ (Fe*+Mg) | .6667 | .5224 | .6290 | .4593 | .4580 | .4401 | .4370 |
| (Na+K)/Al | .6462 | .6828 | .5860 | .5497 | .5530 | .3012 | .4250 |
| FACTEUR LARSEN MODIFIE = 1/3Si+K-Ca-Mg | 4.3462 | 2.6411 | 3.1095 | 3.1210 | 2.7617 | 1.1656 | -.2937 |

| | BLACK-CAPE | | | SECTION-TYPE LAC McKAY | |
|---|---|---|---|---|---|
| | | | | 1236m | 1188m |
| # : | 83-120 | 83-121 | 83-122 | 83-82A | 83-83 |
| SiO2 | 52.70 | 51.80 | 54.20 | 51.80 | 50.20 |
| TiO2 | 1.39 | 1.44 | 1.56 | 2.12 | 1.59 |
| Al2O3 | 15.20 | 16.10 | 17.30 | 16.20 | 17.20 |
| Fe2O3 | 8.64 | 4.35 | 3.54 | 4.47 | 4.90 |
| FeO | .68 | 2.97 | 3.22 | 4.11 | 5.04 |
| (FeO*) | 8.45 | 6.88 | 6.40 | 8.13 | 9.45 |
| MnO | .09 | .22 | .13 | .15 | .20 |
| MgO | 4.31 | 5.15 | 3.97 | 3.03 | 3.78 |
| CaO | 4.45 | 6.71 | 6.31 | 7.44 | 7.82 |
| Na2O | 5.53 | 4.23 | 4.39 | 4.06 | 3.29 |
| K2O | 1.66 | 1.52 | 1.68 | 1.43 | 1.77 |
| P2O5 | .28 | .32 | .41 | .92 | .44 |
| TRACES | .18 | .22 | .20 | .31 | .29 |
| H2O | 3.00 | 2.52 | 3.38 | 3.04 | 2.84 |
| CO2 | .14 | .05 | .14 | .28 | .14 |
| S | .02 | .01 | .01 | .01 | .01 |
| TOTAL | 98.26 | 97.60 | 100.44 | 99.36 | 99.51 |
| | | | CATIONS | | |
| Si | 51.08 | 50.19 | 51.61 | 50.52 | 48.78 |
| Ti | 1.01 | 1.05 | 1.12 | 1.55 | 1.16 |
| Al | 17.36 | 18.39 | 19.41 | 18.62 | 19.70 |
| Fe | 6.85 | 5.58 | 5.10 | 6.63 | 7.68 |
| Mn | .07 | .18 | .10 | .12 | .16 |
| Mg | 6.23 | 7.44 | 5.64 | 4.41 | 5.48 |
| Ca | 4.62 | 6.97 | 6.44 | 7.77 | 8.14 |
| Na | 10.39 | 7.95 | 8.10 | 7.68 | 6.20 |
| K | 2.05 | 1.88 | 2.04 | 1.78 | 2.19 |
| P | .23 | .26 | .33 | .76 | .36 |
| TRACES | .10 | .12 | .11 | .16 | .15 |
| O -2 | 154.94 | 155.97 | 157.91 | 157.86 | 156.18 |
| S | .04 | .02 | .02 | .02 | .02 |
| MgO/ (FeO*+MgO) | .3378 | .4280 | .3827 | .2715 | .2858 |
| Mg/ (Fe*+Mg) | .4763 | .5716 | .5250 | .3992 | .4164 |
| (Na+K)/Al | .7167 | .5344 | .5226 | .5078 | .4260 |
| FACTEUR LARSEN MODIFIE = 1/3Si+K-Ca-Mg | 3.8091 | 1.4309 | 2.9351 | 2.1128 | 1.4220 |

TYPE-SECTION LAC McKAY

EASTERN SILLS

metres above base of section

| | 1188 | 1011 | 890 | 704 | 595 | 458 | 231 | |
|---|---|---|---|---|---|---|---|---|
| # | JB83-84 | 83-85 | 83-86 | 83-87 | 83-88 | 83-89 | 83-90 | 83-47 |
| S | 100. | 100. | 100. | 200. | 200. | 900. | 200. | 1600. |
| V | 180. | 390. | 140. | 300. | 100. | 230. | 300. | 280. |
| Cr | 58. | 19. | 62. | 8. | 14. | 7. | 21. | 34. |
| Ni | 62. | 34. | < .3 | 8. | 2. | 4. | 29. | 53. |
| Cu | 49. | 38. | 8. | 19. | 21. | 47. | 69. | 75. |
| Zn | 85. | 87. | 120. | 100. | 110. | 120. | 100. | 88. |
| Rb | 25. | 29. | 31. | 19. | 15. | 31. | 15. | 40. |
| Sr | 820. | 810. | 590. | 760. | 410. | 620. | 570. | 910. |
| Y | 18. | 21. | 46. | 28. | 47. | 37. | 26. | 21. |
| Zr | 230. | 170. | 310. | 160. | 410. | 340. | 180. | 170. |
| Nb | 18. | 14. | 26. | 13. | 28. | 30. | 14. | 15. |
| Ba | 400. | 280. | 480. | 340. | 160. | 900. | 190. | 620. |

EASTERN SILLS, UNDER DU LAC McKAY LAVAS
MT. ALEXANDRE SECTION

SILLS UNDER TYPE-SECTION

| # | JB83-50 | 83-51 | 83-52 | 83-54 | 83-56 | 83-57 | 83-77 | 83-78 |
|---|---|---|---|---|---|---|---|---|
| S | 600. | 300. | 1100. | 800. | 900. | 800. | 900. | 1200. |
| V | 270. | 240. | 290. | 290. | 260. | 200. | 260. | 260. |
| Cr | 36. | 21. | 21. | 36. | 38. | 78. | 48. | 17. |
| Ni | 59. | 33. | 30. | 33. | 31. | 84. | 20. | 36. |
| Cu | 76. | 61. | 67. | 91. | 92. | 56. | 56. | 56. |
| Zn | 90. | 76. | 89. | 98. | 100. | 79. | 91. | 91. |
| Rb | 18. | 26. | 23. | 25. | 70. | 35. | 31. | 31. |
| Sr | 160. | 600. | 300. | 390. | 1000. | 950. | 710. | 800. |
| Y | 21. | 23. | 23. | 30. | 28. | 26. | 33. | 33. |
| Zr | 170. | 140. | 170. | 250. | 230. | 230. | 220. | 200. |
| Nb | 13. | 11. | 15. | 23. | 21. | 16. | 19. | 20. |
| Ba | 90. | 200. | 230. | 500. | 640. | 340. | 350. | 460. |

SECTION - TYPE DU LAC McKAY EASTERN SILLS

| | 1188m | 1011m | 890m | 704m | 595m | 458m | 231m | |
|---|---|---|---|---|---|---|---|---|
| # : | 83-84 | 83-85 | 83-86 | 83-87 | 83-88 | 83-89 | 83-90 | 83-47 |
| SiO2 | 52.10 | 46.70 | 55.00 | 47.90 | 54.60 | 48.40 | 48.50 | 48.30 |
| TiO2 | 1.63 | 1.93 | 2.10 | 1.92 | 1.88 | 2.56 | 1.87 | 1.86 |
| Al2O3 | 18.60 | 16.60 | 15.80 | 16.00 | 16.20 | 14.30 | 15.00 | 15.60 |
| Fe2O3 | 4.05 | 7.54 | 5.62 | 4.32 | 2.86 | 3.02 | 3.81 | 2.73 |
| FeO | 3.87 | 3.92 | 3.51 | 7.81 | 5.62 | 8.35 | 7.19 | 7.26 |
| (FeO*) | 7.51 | 10.70 | 8.56 | 11.69 | 8.19 | 11.07 | 10.62 | 9.72 |
| MnO | .20 | .21 | .13 | .14 | .12 | .22 | .16 | .23 |
| MgO | 3.76 | 4.81 | 2.81 | 5.16 | 3.21 | 3.91 | 4.01 | 5.94 |
| CaO | 8.93 | 8.08 | 7.04 | 8.58 | 4.16 | 6.62 | 9.80 | 7.03 |
| Na2O | 3.65 | 3.96 | 3.86 | 3.66 | 6.75 | 4.03 | 3.52 | 3.90 |
| K2O | 1.12 | 1.23 | 1.44 | .68 | .46 | 1.66 | .42 | 1.49 |
| P2O5 | .45 | .41 | .72 | .33 | .86 | .97 | .30 | .42 |
| TRACES | .25 | .25 | .23 | .23 | .17 | .30 | .23 | .29 |
| H2O | 2.00 | 3.38 | 2.48 | 2.98 | 2.96 | 3.66 | 2.78 | 3.60 |
| CO2 | .05 | .66 | .24 | .37 | .09 | .50 | .16 | .24 |
| S | .01 | .01 | .01 | .02 | .02 | .09 | .02 | .16 |
| TOTAL | 100.66 | 99.69 | 100.98 | 100.09 | 99.95 | 98.54 | 97.76 | 98.97 |

CATIONS

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Si | 49.20 | 45.60 | 52.75 | 46.35 | 51.61 | 48.19 | 48.10 | 47.00 |
| Ti | 1.16 | 1.42 | 1.51 | 1.40 | 1.34 | 1.92 | 1.39 | 1.36 |
| Al | 20.70 | 19.10 | 17.86 | 18.24 | 18.05 | 16.78 | 17.53 | 17.89 |
| Fe | 5.93 | 8.74 | 6.87 | 9.46 | 6.47 | 9.21 | 8.80 | 7.90 |
| Mn | .16 | .17 | .11 | .11 | .10 | .19 | .13 | .19 |
| Mg | 5.29 | 7.00 | 4.02 | 7.44 | 4.52 | 5.80 | 5.93 | 8.62 |
| Ca | 9.03 | 8.45 | 7.23 | 8.89 | 4.21 | 7.06 | 10.41 | 7.33 |
| Na | 6.68 | 7.50 | 7.18 | 6.87 | 12.37 | 7.78 | 6.77 | 7.36 |
| K | 1.35 | 1.53 | 1.76 | .84 | .55 | 2.11 | .53 | 1.85 |
| P | .36 | .34 | .58 | .27 | .69 | .82 | .25 | .35 |
| TRACES | .13 | .14 | .12 | .13 | .09 | .15 | .13 | .16 |
| O -2 | 157.28 | 152.65 | 159.66 | 153.48 | 156.59 | 154.84 | 155.07 | 153.28 |
| S | .02 | .02 | .02 | .04 | .04 | .17 | .04 | .29 |
| MgO/ (FeO*+MgO) | .3336 | .3101 | .2471 | .3061 | .2815 | .2611 | .2742 | .3794 |
| Mg/ (Fe*+Mg) | .4716 | .4449 | .3691 | .4403 | .4113 | .3865 | .4024 | .5216 |
| (Na+K)/Al | .3880 | .4726 | .5005 | .4223 | .7162 | .5893 | .4163 | .5146 |
| FACTEUR LARSEN MODIFIE = 1/3Si+K-Ca-Mg | .3971 | -.3785 | 3.0382 | -1.2165 | 3.9794 | 1.8295 | -1.5173 | .1557 |

| | MT ALEXANDRE SECTION, SILLS & DYKES UNDER LAVAS | | | | | | DITTO, TYPE-SECTION, LAC McKAY | |
|---|---|---|---|---|---|---|---|---|
| # : | JB83-50 | 83-51 | 83-52 | 83-54 | 83-56 | 83-57 | 83-77 | 83-78 |
| SiO2 | 47.20 | 49.60 | 48.30 | 50.30 | 50.00 | 48.20 | 49.60 | 50.30 |
| TiO2 | 1.83 | 1.64 | 1.94 | 2.39 | 1.99 | 1.82 | 1.97 | 2.03 |
| Al2O3 | 16.20 | 16.80 | 15.90 | 14.60 | 16.90 | 16.20 | 17.00 | 16.60 |
| Fe2O3 | 2.55 | 2.52 | 3.39 | 3.71 | 1.75 | 2.48 | 2.32 | 2.34 |
| FeO | 7.79 | 7.09 | 7.39 | 7.73 | 7.43 | 6.45 | 7.36 | 7.53 |
| (FeO*) | 10.08 | 9.36 | 10.44 | 11.07 | 9.00 | 8.68 | 9.45 | 9.63 |
| MnO | .15 | .15 | .16 | .15 | .18 | .14 | .13 | .15 |
| MgO | 6.10 | 5.50 | 4.94 | 5.02 | 4.05 | 6.41 | 3.71 | 3.84 |
| CaO | 8.76 | 8.34 | 7.12 | 6.56 | 7.27 | 8.05 | 7.52 | 6.41 |
| Na2O | 3.89 | 4.30 | 4.78 | 4.47 | 4.04 | 3.85 | 4.38 | 4.44 |
| K2O | .56 | .78 | 1.17 | 1.71 | 2.29 | 1.26 | .93 | 1.53 |
| P2O5 | .40 | .27 | .38 | .71 | .62 | .45 | .48 | .45 |
| TRACES | .14 | .19 | .17 | .23 | .31 | .27 | .24 | .26 |
| H2O | 4.86 | 2.26 | 4.14 | 1.78 | 3.54 | 3.82 | 3.54 | 3.08 |
| CO2 | .41 | .21 | .95 | .11 | .09 | .15 | .13 | .09 |
| S | .06 | .03 | .11 | .08 | .09 | .08 | .09 | .12 |
| TOTAL | 100.87 | 99.66 | 100.78 | 99.51 | 100.51 | 99.59 | 99.35 | 99.11 |
| | | | | CATIONS | | | | |
| Si | 45.65 | 47.06 | 46.65 | 48.01 | 47.90 | 46.42 | 48.19 | 48.72 |
| Ti | 1.33 | 1.17 | 1.41 | 1.72 | 1.43 | 1.32 | 1.44 | 1.48 |
| Al | 18.47 | 18.79 | 18.10 | 16.42 | 19.08 | 18.39 | 19.46 | 18.95 |
| Fe | 8.16 | 7.42 | 8.43 | 8.83 | 7.21 | 6.99 | 7.67 | 7.80 |
| Mn | .12 | .12 | .13 | .12 | .15 | .11 | .11 | .12 |
| Mg | 8.80 | 7.78 | 7.11 | 7.14 | 5.78 | 9.20 | 5.37 | 5.54 |
| Ca | 9.08 | 8.48 | 7.37 | 6.71 | 7.46 | 8.31 | 7.83 | 6.65 |
| Na | 7.29 | 7.91 | 8.95 | 8.27 | 7.50 | 7.19 | 8.25 | 8.34 |
| K | .69 | .94 | 1.44 | 2.08 | 2.80 | 1.55 | 1.15 | 1.89 |
| P | .33 | .22 | .31 | .57 | .50 | .37 | .39 | .37 |
| TRACES | .08 | .10 | .10 | .12 | .17 | .15 | .13 | .14 |
| O -2 | 152.78 | 153.58 | 152.44 | 153.69 | 154.54 | 153.17 | 155.31 | 155.17 |
| S | .11 | .05 | .20 | .14 | .16 | .14 | .16 | .22 |
| MgO/ (FeO*+MgO) | .3769 | .3702 | .3212 | .3121 | .3103 | .4248 | .2820 | .2850 |
| Mg/ (Fe*+Mg) | .5189 | .5117 | .4576 | .4471 | .4450 | .5683 | .4118 | .4154 |
| (Na+K)/Al | .4324 | .4713 | .5742 | .6304 | .5399 | .4751 | .4831 | .5398 |
| FACTEUR LARSEN MODIFIE = 1/3Si+K-Ca-Mg | -2.1206 | -.9021 | .4287 | 1.5406 | 2.0528 | -1.0632 | .8878 | 2.2099 |

| | DYKES & SILLS UNDER LAC McKAY SECTION | | | | TYPE | | CASCAPEDIA NORD UN-CONTAMINATED | |
|---|---|---|---|---|---|---|---|---|
| # : | JB83-79 | 83-80 | 83-100 | 83-102 | 83-114 | F83-3 | 83-98 | 83-99 |
| SiO2 | 48.20 | 46.80 | 46.80 | 42.80 | 48.80 | 43.10 | 46.80 | 48.10 |
| TiO2 | 2.25 | 1.71 | 1.64 | 2.09 | 1.78 | 1.79 | 1.16 | 1.19 |
| Al2O3 | 14.90 | 15.40 | 15.50 | 16.00 | 14.70 | 14.50 | 17.50 | 16.70 |
| Fe2O3 | 1.99 | 1.95 | 1.23 | 13.00 | 1.38 | 1.25 | 10.60 | 1.72 |
| FeO | 9.01 | 8.60 | 7.13 | -- | 7.26 | 8.69 | -- | 9.07 |
| (FeO*) | 10.80 | 10.35 | 8.24 | 11.69 | 8.50 | 9.81 | 9.53 | 10.62 |
| MnO | .17 | .14 | .07 | .07 | .10 | .14 | .12 | .10 |
| MgO | 5.01 | 5.99 | 4.11 | 6.11 | 4.69 | 5.21 | 7.25 | 7.26 |
| CaO | 6.90 | 8.73 | 6.68 | 5.19 | 5.23 | 6.15 | 9.04 | 5.12 |
| Na2O | 3.94 | 3.31 | 4.09 | 4.78 | 4.86 | 4.31 | 2.12 | 2.50 |
| K2O | 1.14 | .66 | 1.21 | .23 | .52 | .35 | .35 | .56 |
| P2O5 | .37 | .26 | .44 | .51 | .48 | .43 | .06 | .07 |
| TRACES | .25 | .21 | .16 | .20 | .13 | .24 | .21 | .22 |
| H2O | 3.68 | 4.18 | 4.40 | 6.14 | 4.02 | 4.44 | 3.58 | 4.62 |
| CO2 | 1.12 | .10 | 5.42 | 3.95 | 3.75 | 7.85 | 1.56 | 1.82 |
| S | .17 | .09 | .18 | .22 | .09 | .17 | .21 | .13 |
| TOTAL | 99.02 | 98.09 | 98.97 | 101.18 | 97.75 | 98.54 | 100.45 | 99.11 |
| | | | | CATIONS | | | | |
| Si | 47.70 | 46.38 | 48.51 | 43.75 | 49.89 | 46.08 | 46.06 | 48.24 |
| Ti | 1.67 | 1.27 | 1.28 | 1.61 | 1.37 | 1.44 | .86 | .90 |
| Al | 17.38 | 17.99 | 18.93 | 19.27 | 17.71 | 18.27 | 20.30 | 19.74 |
| Fe | 8.94 | 8.58 | 7.14 | 9.99 | 7.27 | 8.77 | 7.84 | 8.90 |
| Mn | .14 | .12 | .06 | .06 | .09 | .13 | .10 | .08 |
| Mg | 7.39 | 8.85 | 6.35 | 9.31 | 7.15 | 8.30 | 10.64 | 10.85 |
| Ca | 7.32 | 9.27 | 7.42 | 5.68 | 5.73 | 7.04 | 9.53 | 5.50 |
| Na | 7.56 | 6.36 | 8.22 | 9.47 | 9.63 | 8.93 | 4.04 | 4.86 |
| K | 1.44 | .83 | 1.60 | .30 | .68 | .48 | .44 | .72 |
| P | .31 | .22 | .39 | .44 | .42 | .39 | .05 | .06 |
| TRACES | .14 | .13 | .10 | .12 | .08 | .15 | .14 | .15 |
| O -2 | 154.10 | 153.44 | 154.99 | 150.85 | 155.64 | 152.61 | 154.98 | 156.38 |
| S | .32 | .17 | .35 | .42 | .17 | .34 | .39 | .24 |
| MgO/ (FeO*+MgO) | .3169 | .3665 | .3329 | .3432 | .3555 | .3468 | .4320 | .4061 |
| Mg/ (Fe*+Mg) | .4527 | .5077 | .4708 | .4823 | .4959 | .4862 | .5755 | .5494 |
| (Na+K)/Al | .5178 | .4000 | .5186 | .5070 | .5822 | .5151 | .2209 | .2826 |
| FACTEUR LARSEN MODIFIE = 1/3Si+K-Ca-Mg | .5033 | -2.0121 | 1.0432 | -.5346 | 1.4685 | -.5317 | -3.2508 | -.0784 |

CIPW NORMS BY WEIGHT

Altered tholeiitic & alkaline rocks have had their $Fe^{3+}/Fe^{2+}$ (cationic) ratios fixed at 0.119 ($) and 0.133 (*) respectively (Jakobsson (1979)) Some Siluro-Devonian lavas and the more evolved rocks have norms calculated using analysed values. All norms were calculated $CO_2$-free.

TTI= differentiation index of Thornton & Tuttle (1965) (qtz + cor + or + ab + leuc + neph + kals + hal), PDVI= cristallization index of Poldervaart & Parker (1964) (an + Mg-diops + fo + 0.700837*en + Mg-spin), NPL= normative cationic anorthite Irvine & Baragar (1971) (100*an/(an+ab+ne5/3) & NCOL= cationique coloration index of Irvine & Baragar (1971) (ol + hy + diops + hem + magn + ilm).

| | PABOS | | THOLEIITES | | | : DYKES CUTTING MICTAW | | |
|---|---|---|---|---|---|---|---|---|
| CIPW | DP-13$ | 83-37$ | 83-36$ | MM108$ | 83-38$ | 83-42$ | 83-41$ | 1146$ |
| Qtz | .24 | 4.28 | 3.15 | -- | -- | 2.01 | -- | -- |
| Or | .85 | 2.11 | 2.17 | 2.65 | 4.50 | .93 | 2.79 | .99 |
| Ab | 17.97 | 19.70 | 20.86 | 28.44 | 22.28 | 23.88 | 38.54 | 42.47 |
| An | 30.56 | 28.68 | 28.16 | 21.75 | 27.66 | 26.94 | 16.54 | 13.15 |
| Neph | -- | -- | -- | -- | 3.60 | -- | -- | -- |
| MgDi | 19.17 | 7.85 | 8.68 | 10.60 | 13.19 | 7.05 | 5.89 | 7.84 |
| FeDi | 10.58 | 5.90 | 6.78 | 10.11 | 12.02 | 6.30 | 5.70 | 7.76 |
| Augt | 29.75 | 13.75 | 15.46 | 20.70 | 25.21 | 13.35 | 11.60 | 15.60 |
| Enst | 10.19 | 13.73 | 12.74 | 7.82 | -- | 12.43 | 3.98 | 6.46 |
| Fesl | 6.45 | 11.85 | 11.40 | 8.56 | -- | 12.74 | 4.42 | 7.32 |
| Hy | 16.65 | 25.58 | 24.14 | 16.38 | -- | 25.17 | 8.40 | 13.78 |
| Fo | -- | -- | -- | 1.57 | 4.48 | -- | 6.38 | 3.03 |
| Fa | -- | -- | -- | 1.89 | 5.15 | -- | 7.80 | 3.79 |
| Ol | -- | -- | -- | 3.46 | 9.63 | -- | 14.18 | 6.82 |
| Chrm | .05 | .03 | .02 | .01 | .03 | .01 | .02 | .01 |
| Magn | 1.74 | 2.24 | 2.25 | 2.45 | 2.12 | 2.52 | 2.68 | 2.51 |
| Ilm | 1.84 | 3.19 | 3.25 | 3.79 | 3.71 | 4.60 | 4.45 | 3.78 |
| Zr | .01 | .02 | .02 | .03 | .02 | .03 | .03 | .03 |
| Ap | -- | .18 | .24 | .30 | .27 | .45 | .45 | .46 |
| Pyrt | .33 | .24 | .27 | .04 | .98 | .10 | .31 | .39 |
| TTI | 1.101 | 6.415 | 5.341 | 2.678 | 8.121 | 2.975 | 2.823 | 1.029 |
| NPL | 61.561 | 57.832 | 55.974 | 41.880 | 47.388 | 51.527 | 28.782 | 22.582 |
| NCOL | 48.695 | 43.096 | 43.305 | 44.366 | 38.264 | 43.377 | 38.654 | 39.720 |
| PDVI | 61.399 | 54.454 | 53.765 | 45.399 | 45.323 | 51.635 | 34.696 | 33.683 |

| | DYKES CUTTING MICTAW | | | | SMALL DYKES NORTH OF CHANDLER | | RHYOLITES RAUDIN SUITE DIOR. CONTACT | |
|---|---|---|---|---|---|---|---|---|
| CIPW | 83-43$ | 83-44$ | 92176$ | 92179$ | 83-45$ | 83-46* | 83-26 | 83-34 |
| Qtz | 1.98 | -- | -- | -- | -- | -- | 8.12 | 33.80 |
| Or | 2.48 | 1.30 | 1.86 | 2.79 | 8.89 | 5.02 | 12.61 | 15.40 |
| Ab | 31.01 | 39.54 | 38.76 | 35.07 | 24.01 | 33.32 | 28.04 | 27.88 |
| An | 16.60 | 15.62 | 15.49 | 19.52 | 25.87 | 18.84 | 25.65 | 17.18 |
| MgDi | 5.85 | 7.64 | 8.85 | 8.75 | 8.31 | 8.17 | 4.70 | .80 |
| FeDi | 8.94 | 7.81 | 7.90 | 8.54 | 5.31 | 4.36 | 5.11 | .76 |
| Augt | 14.79 | 15.45 | 16.76 | 17.28 | 13.61 | 12.54 | 9.81 | 1.56 |
| Enst | 8.35 | 3.73 | 3.67 | 2.07 | 3.91 | 3.61 | 4.37 | 1.37 |
| Fesl | 14.63 | 4.37 | 3.75 | 2.31 | 2.86 | 2.21 | 5.45 | 1.49 |
| Hy | 22.97 | 8.10 | 7.42 | 4.38 | 6.77 | 5.82 | 9.82 | 2.86 |
| Fo | -- | 5.35 | 5.92 | 6.26 | 8.92 | 10.32 | -- | -- |
| Fa | -- | 6.92 | 6.69 | 7.73 | 7.20 | 6.96 | -- | -- |
| Ol | -- | 12.28 | 12.61 | 13.99 | 16.13 | 17.28 | -- | -- |
| Chrm | .01 | .01 | .02 | .01 | .09 | .10 | .01 | -- |
| Magn | 3.10 | 2.65 | 2.50 | 2.53 | 2.12 | 2.44 | 1.41 | .35 |
| Ilm | 6.07 | 4.49 | 3.79 | 3.79 | 2.25 | 3.94 | 3.10 | .47 |
| Zr | .04 | .03 | .03 | .03 | .01 | .03 | .06 | .03 |
| Ap | .71 | .45 | .46 | .45 | .15 | .60 | 1.03 | .13 |
| Pyrt | .24 | .06 | .31 | .16 | .10 | .08 | .12 | .08 |
| TTI | 4.498 | 1.337 | 1.890 | 2.820 | 8.897 | 5.051 | 20.794 | 49.232 |
| NPL | 33.522 | 27.125 | 27.350 | 34.389 | 50.373 | 34.749 | 46.281 | 36.728 |
| NCOL | 43.578 | 40.184 | 40.579 | 39.483 | 39.600 | 40.478 | 22.701 | 5.317 |
| PDVI | 38.555 | 34.294 | 35.466 | 37.591 | 47.847 | 42.252 | 37.223 | 19.985 |

| | RAUDIN | | RHYOLITES | | | | : FELSITES | |
|---|---|---|---|---|---|---|---|---|
| CIPW | 83-35 | 83-40 | MM310 | SP29 | MM214 | GB2154A | 83-58 | 83-69 |
| Qtz | 35.20 | 20.96 | 53.13 | 23.91 | 25.89 | 39.16 | 24.67 | 20.49 |
| Cor | 2.01 | -- | 4.81 | -- | -- | 5.92 | 3.16 | 6.02 |
| Or | 13.53 | 12.82 | 10.47 | 18.50 | 17.18 | 19.33 | 4.59 | 16.72 |
| Ab | 33.00 | 29.44 | 8.31 | 25.28 | 25.77 | 21.16 | 59.59 | 43.40 |
| An | 10.74 | 23.10 | 18.30 | 17.06 | 19.00 | 5.01 | 1.55 | 1.02 |
| MgDi | -- | .95 | -- | 5.54 | 1.97 | -- | -- | -- |
| FeDi | -- | .97 | -- | 2.96 | .86 | -- | -- | -- |
| Augt | -- | 1.92 | -- | 8.51 | 2.83 | -- | -- | -- |
| Enst | 2.38 | 3.49 | 1.86 | 2.69 | 3.30 | 6.68 | 3.22 | 1.94 |
| Fesl | 1.59 | 4.07 | 1.05 | 1.65 | 1.66 | -- | 1.45 | 8.78 |
| Hy | 3.97 | 7.56 | 2.91 | 4.34 | 4.96 | 6.68 | 4.68 | 10.72 |
| Magn | .89 | 1.34 | 1.19 | .81 | 2.42 | 1.88 | .84 | .38 |
| Hem | -- | -- | -- | -- | -- | .17 | -- | -- |
| Ilm | .48 | 1.90 | .53 | 1.33 | 1.31 | .50 | .61 | .51 |
| Zr | .04 | .06 | .04 | .06 | .05 | .04 | .03 | .13 |
| Ap | .13 | .72 | .28 | .16 | .56 | .13 | .25 | .48 |
| Pyrt | .02 | .18 | .04 | .04 | .02 | .02 | .02 | .12 |
| TTI | 50.771 | 33.840 | 68.445 | 42.468 | 43.116 | 64.444 | 32.453 | 43.366 |
| NPL | 23.464 | 42.502 | 67.479 | 38.868 | 40.993 | 18.246 | 2.398 | 2.173 |
| NCOL | 5.014 | 11.621 | 4.341 | 14.424 | 10.712 | 9.341 | 5.750 | 10.185 |
| PDVI | 13.521 | 29.350 | 20.336 | 25.648 | 24.448 | 9.694 | 4.834 | 8.537 |

| | FELSITES | | DYKES | STEWART | RIVER | | |
|---|---|---|---|---|---|---|---|
| CIPW | 83-71 | 0231A | 83-63* | 83-64* | 83-65* | 83-66* | 83-67* |
| Qtz | 24.31 | 17.37 | -- | -- | 10.63 | -- | 3.60 |
| Cor | 6.42 | 1.53 | -- | -- | 2.82 | -- | -- |
| Or | 15.94 | 12.08 | 8.06 | 9.01 | 17.75 | 6.76 | 25.91 |
| Ab | 41.59 | 54.51 | 26.38 | 20.58 | 31.36 | 24.30 | 25.50 |
| An | 1.04 | 5.91 | 26.48 | 26.85 | 8.06 | 23.53 | 13.60 |
| Neph | -- | -- | -- | 3.91 | -- | -- | -- |
| MgDi | -- | -- | 1.39 | 9.28 | -- | 8.29 | 1.80 |
| FeDi | -- | -- | .61 | 4.39 | -- | 3.95 | .57 |
| Augt | -- | -- | 2.00 | 13.66 | -- | 12.24 | 2.37 |
| Enst | 1.76 | 1.38 | 15.32 | -- | 18.04 | 6.42 | 16.78 |
| Fesl | 7.57 | 6.20 | 7.72 | -- | 6.01 | 3.51 | 6.08 |
| Hy | 9.33 | 7.58 | 23.04 | -- | 24.06 | 9.94 | 22.86 |
| Fo | -- | -- | 4.02 | 10.62 | -- | 9.80 | -- |
| Fa | -- | -- | 2.23 | 6.35 | -- | 5.91 | -- |
| Ol | -- | -- | 6.25 | 16.97 | -- | 15.72 | -- |
| Chrm | -- | -- | .08 | .15 | .08 | .14 | .10 |
| Magn | .39 | .29 | 2.09 | 2.16 | 1.25 | 2.39 | 1.29 |
| Hem | -- | -- | -- | -- | -- | -- | -- |
| Ilm | .44 | .28 | 3.69 | 4.01 | 2.29 | 3.18 | 2.89 |
| Zr | .11 | .09 | .04 | .05 | .05 | .03 | .05 |
| Ap | .38 | .33 | 1.55 | 1.69 | 1.08 | 1.16 | 1.70 |
| Pyrt | .06 | .02 | .35 | .94 | .58 | .61 | .12 |
| TTI | 46.775 | 31.070 | 8.104 | 12.970 | 31.253 | 6.797 | 29.560 |
| NPL | 2.306 | 9.263 | 48.601 | 47.646 | 19.484 | 47.697 | 33.442 |
| NCOL | 8.938 | 7.100 | 36.016 | 35.455 | 27.255 | 42.390 | 28.904 |
| PDVI | 7.584 | 11.222 | 48.026 | 46.749 | 24.917 | 48.582 | 31.424 |

| | DYKES STEWART RIVER | | | RUISSEAU ALAIN | | GRANDE CASCAPEDIA SUD | |
|---|---|---|---|---|---|---|---|
| CIPW | 83-68* | 83-73* | MS0231B* | 83-74* | 83-75* | F83-4* | F83-5* |
| Qtz | .89 | -- | 4.17 | -- | -- | 6.07 | -- |
| Cor | -- | -- | 1.25 | 2.89 | 1.32 | 4.06 | -- |
| Or | 24.69 | 14.81 | 8.44 | 9.44 | 6.51 | 5.06 | 5.15 |
| Ab | 27.11 | 38.13 | 39.61 | 40.71 | 45.76 | 22.08 | 29.76 |
| An | 14.63 | 14.83 | 14.43 | 13.66 | 18.65 | 21.95 | 24.84 |
| Neph | -- | 4.38 | -- | -- | -- | -- | -- |
| MgDi | 1.87 | 8.08 | -- | -- | -- | -- | 4.62 |
| FeDi | .63 | 4.94 | -- | -- | -- | -- | 3.45 |
| Augt | 2.50 | 13.02 | -- | -- | -- | -- | 8.06 |
| Enst | 17.23 | -- | 17.56 | 6.63 | 3.48 | 15.21 | 9.56 |
| Fesl | 6.61 | -- | 8.72 | 5.73 | 3.23 | 13.58 | 8.19 |
| Hy | 23.84 | -- | 26.28 | 12.36 | 6.71 | 28.79 | 17.75 |
| Fo | -- | 4.90 | -- | 5.42 | 6.51 | -- | 1.24 |
| Fa | -- | 3.79 | -- | 5.17 | 6.65 | -- | 1.17 |
| Ol | -- | 8.69 | -- | 10.59 | 13.16 | -- | 2.42 |
| Chrm | .09 | .03 | .04 | .01 | .01 | .02 | .02 |
| Magn | 1.39 | 1.51 | 1.59 | 2.59 | 2.32 | 2.97 | 2.66 |
| Ilm | 2.92 | 3.10 | 2.65 | 6.01 | 4.65 | 6.87 | 7.04 |
| Zr | .05 | .04 | .05 | .05 | .04 | .05 | .05 |
| Ap | 1.75 | 1.19 | 1.41 | 1.31 | .70 | .90 | 1.28 |
| Pyrt | .14 | .28 | .08 | .37 | .16 | 1.18 | .95 |
| TTI | 25.634 | 19.226 | 13.911 | 12.376 | 7.864 | 15.239 | 5.201 |
| NPL | 33.701 | 23.214 | 25.545 | 24.019 | 27.742 | 48.362 | 44.019 |
| NCOL | 29.981 | 24.587 | 29.474 | 29.049 | 24.629 | 36.108 | 35.284 |
| PDVI | 33.209 | 27.810 | 32.843 | 27.746 | 29.864 | 42.131 | 43.142 |

| CIPW | BLACK-CAPE 83-120 | 83-121 | 83-122 | TYPE-SECTION LAC McKAY SUMMIT 83-82A | 83-83 |
|---|---|---|---|---|---|
| Qtz | .83 | 2.63 | 5.07 | 6.71 | 3.75 |
| Cor | -- | -- | -- | -- | -- |
| Or | 10.32 | 9.46 | 10.25 | 8.80 | 10.85 |
| Ab | 49.22 | 37.69 | 38.35 | 35.79 | 28.87 |
| An | 12.36 | 21.54 | 23.27 | 22.67 | 27.94 |
| MgDi | 5.58 | 8.97 | 4.83 | 7.19 | 6.14 |
| FeDi | -- | -- | .28 | .54 | 1.69 |
| Augt | 5.58 | 8.97 | 5.11 | 7.72 | 7.84 |
| Enst | 8.70 | 9.35 | 7.97 | 4.53 | 6.92 |
| Fesl | -- | -- | .53 | .39 | 2.18 |
| Hy | 8.70 | 9.35 | 8.50 | 4.92 | 9.10 |
| Fo | -- | -- | -- | -- | -- |
| Fa | -- | -- | -- | -- | -- |
| Ol | -- | -- | -- | -- | -- |
| Chrm | .01 | .02 | .01 | .01 | -- |
| Magn | -- | 6.45 | 5.30 | 6.75 | 7.37 |
| Hem | 9.09 | .13 | -- | -- | -- |
| Ilm | 1.69 | 2.88 | 3.06 | 4.20 | 3.13 |
| Zr | .03 | .04 | .05 | .08 | .04 |
| Ap | .71 | .81 | 1.02 | 2.31 | 1.10 |
| Pyrt | .04 | .02 | .02 | .02 | .02 |
| TTI | 24.623 | 20.989 | 9.319 | 11.185 | 12.131 |
| NPL | 14.113 | 30.130 | 10.783 | 19.131 | 34.996 |
| NCOL | 34.490 | 29.450 | 22.834 | 22.827 | 26.259 |
| PDVI | 26.484 | 33.196 | 19.403 | 24.045 | 37.063 |

SECTION - TYPE DU LAC McKAY : EAST
(BASE): SILLS

| CIPW | 83-84 | 83-85 | 83-86 | 83-87 | 83-88 | 83-89 | 83-90 | 83-47$ |
|---|---|---|---|---|---|---|---|---|
| Qtz | 4.66 | -- | 11.80 | -- | .49 | -- | 1.95 | -- |
| Or | 6.72 | 7.61 | 8.66 | 4.16 | 2.80 | 10.40 | 2.62 | 9.28 |
| Ab | 31.34 | 35.07 | 33.25 | 32.04 | 58.93 | 36.14 | 31.44 | 34.77 |
| An | 31.52 | 25.00 | 21.92 | 26.10 | 12.95 | 16.99 | 25.22 | 21.77 |
| MgDi | 7.52 | 11.27 | 7.11 | 8.52 | 1.43 | 5.29 | 12.16 | 6.08 |
| FeDi | 1.02 | -- | -- | 4.54 | .79 | 4.20 | 7.71 | 4.20 |
| Augt | 8.53 | 11.27 | 7.11 | 13.06 | 2.22 | 9.49 | 19.87 | 10.28 |
| Enst | 6.02 | 1.99 | 3.83 | 5.80 | 7.59 | 6.73 | 4.91 | .08 |
| Fesl | .93 | -- | -- | 3.54 | 4.80 | 6.13 | 3.57 | .06 |
| Hy | 6.95 | 1.99 | 3.83 | 9.34 | 12.39 | 12.85 | 8.47 | .14 |
| Fo | -- | 3.73 | -- | 2.49 | -- | .80 | -- | 8.89 |
| Fa | -- | -- | -- | 1.67 | -- | .80 | -- | 7.77 |
| Ol | -- | 3.73 | -- | 4.16 | -- | 1.60 | -- | 16.66 |
| Chrm | .02 | .01 | .02 | -- | -- | -- | .01 | .01 |
| Magn | 5.96 | 8.10 | 5.74 | 6.48 | 4.28 | 4.64 | 5.83 | 1.96 |
| Hem | -- | 2.30 | 1.76 | -- | -- | -- | -- | -- |
| Ilm | 3.14 | 3.84 | 4.06 | 3.77 | 3.68 | 5.15 | 3.75 | 3.72 |
| Zr | .05 | .04 | .06 | .03 | .09 | .07 | .04 | .04 |
| Ap | 1.10 | 1.03 | 1.76 | .82 | 2.14 | 2.47 | .76 | 1.06 |
| Pyrt | .02 | .02 | .02 | .04 | .04 | .18 | .04 | .31 |
| TTI | 11.423 | 7.643 | 20.528 | 4.191 | 3.384 | 10.471 | 4.605 | 9.313 |
| NPL | 48.651 | 40.177 | 38.313 | 43.414 | 17.146 | 30.689 | 43.039 | 37.099 |
| NCOL | 22.795 | 28.676 | 20.225 | 34.320 | 20.180 | 30.935 | 35.314 | 31.048 |
| PDVI | 43.909 | 41.395 | 31.714 | 43.649 | 23.056 | 32.088 | 43.320 | 38.837 |

DYKES & SILLS OF MT ALEXANDRE SECTION , LAC McKAY VOLCANICS

TYPE- SILLS & DYKES SECTION

| CIPW | 83-50$ | 83-51$ | 83-52$ | 83-54$ | 83-56$ | 83-57$ | 83-77$ | 83-78$ |
|---|---|---|---|---|---|---|---|---|
| Or | 3.47 | 4.75 | 7.24 | 10.38 | 13.99 | 7.80 | 5.75 | 9.44 |
| Ab | 32.40 | 35.98 | 34.98 | 38.85 | 34.23 | 32.44 | 38.80 | 39.23 |
| An | 26.28 | 24.99 | 19.35 | 15.12 | 21.93 | 24.31 | 25.10 | 21.77 |
| Neph | 1.12 | .83 | 4.00 | -- | .60 | .92 | -- | -- |
| MgDi | 7.96 | 7.60 | 6.64 | 6.00 | 5.05 | 7.77 | 4.47 | 3.58 |
| FeDi | 5.66 | 5.64 | 5.95 | 5.40 | 4.58 | 4.34 | 4.67 | 3.68 |
| Augt | 13.62 | 13.24 | 12.58 | 11.40 | 9.63 | 12.10 | 9.14 | 7.26 |
| Enst | -- | -- | -- | .69 | -- | -- | 2.76 | 2.71 |
| Fesl | -- | -- | -- | .72 | -- | -- | 3.31 | 3.19 |
| Hy | -- | -- | -- | 1.41 | -- | -- | 6.08 | 5.91 |
| Fo | 8.57 | 7.43 | 6.88 | 6.56 | 5.67 | 9.20 | 3.39 | 3.93 |
| Fa | 7.70 | 6.97 | 7.79 | 7.46 | 6.49 | 6.49 | 4.48 | 5.10 |
| Ol | 16.26 | 14.39 | 14.67 | 14.03 | 12.16 | 15.69 | 7.87 | 9.03 |
| Chrm | .01 | .01 | .01 | .01 | .01 | .02 | .01 | .01 |
| Magn | 2.03 | 1.85 | 2.10 | 2.18 | 1.78 | 1.74 | 1.90 | 1.93 |
| Ilm | 3.64 | 3.21 | 3.86 | 4.66 | 3.91 | 3.62 | 3.92 | 4.03 |
| Zr | .04 | .03 | .04 | .05 | .05 | .05 | .05 | .04 |
| Ap | 1.01 | .67 | .96 | 1.75 | 1.54 | 1.13 | 1.21 | 1.13 |
| Pyrt | .12 | .06 | .22 | .15 | .17 | .16 | .18 | .23 |
| TTI | 4.626 | 5.608 | 11.278 | 10.430 | 14.631 | 8.770 | 5.800 | 9.483 |
| NPL | 41.796 | 38.557 | 30.086 | 26.832 | 36.896 | 40.154 | 37.870 | 34.329 |
| NCOL | 33.724 | 30.869 | 30.851 | 31.338 | 25.470 | 31.731 | 26.589 | 25.857 |
| PDVI | 42.810 | 40.013 | 32.863 | 28.676 | 32.647 | 41.282 | 37.221 | 33.424 |

| CIPW | SILLS & DYKES UNDER TYPE-SECTION LAC McKAY | | | | | | CASCAPEDIA NORD UN-CONTAMINATED | |
|---|---|---|---|---|---|---|---|---|
| | 83-79$ | 83-80$ | 83-100$ | 83-102$ | 83-114$ | F83-3$ | 83-98$ | 83-99$ |
| Cor | -- | -- | -- | -- | -- | -- | -- | 3.01 |
| Or | 7.16 | 4.16 | 8.02 | 1.51 | 3.42 | 2.40 | 2.19 | 3.57 |
| Ab | 35.42 | 29.90 | 38.82 | 37.14 | 45.71 | 39.69 | 19.01 | 22.84 |
| An | 20.83 | 26.92 | 22.84 | 23.94 | 18.63 | 22.25 | 39.43 | 27.08 |
| Neph | -- | -- | -- | 4.25 | -- | 1.41 | -- | -- |
| MgDi | 5.86 | 8.32 | 5.12 | .50 | 3.22 | 4.70 | 4.00 | -- |
| FeDi | 5.15 | 6.28 | 4.15 | .40 | 2.38 | 3.73 | 2.38 | -- |
| Augt | 11.01 | 14.60 | 9.27 | .89 | 5.60 | 8.43 | 6.38 | -- |
| Enst | 3.59 | 2.88 | 2.42 | -- | 8.02 | -- | 15.10 | 19.53 |
| Fesl | 3.62 | 2.49 | 2.25 | -- | 6.80 | -- | 10.28 | 15.10 |
| Hy | 7.22 | 5.37 | 4.67 | -- | 14.82 | -- | 25.38 | 34.63 |
| Fo | 4.87 | 6.44 | 4.69 | 11.70 | 2.44 | 9.02 | 1.53 | -- |
| Fa | 5.41 | 6.15 | 4.80 | 11.79 | 2.28 | 9.05 | 1.15 | -- |
| Ol | 10.28 | 12.59 | 9.49 | 23.49 | 4.72 | 18.06 | 2.68 | -- |
| Chrm | .02 | -- | .02 | .01 | -- | .01 | .07 | .11 |
| Magn | 2.20 | 2.12 | 1.77 | 2.49 | 1.81 | 2.18 | 1.94 | 2.20 |
| Ilm | 4.54 | 3.47 | 3.49 | 4.41 | 3.76 | 3.94 | 2.34 | 2.44 |
| Zr | .05 | .03 | .04 | .05 | .06 | .04 | .01 | .01 |
| Ap | .95 | .67 | 1.19 | 1.36 | 1.28 | 1.20 | .15 | .18 |
| Pyrt | .34 | .18 | .38 | .46 | .19 | .37 | .42 | .26 |
| TTI | 7.205 | 4.196 | 8.062 | 5.805 | 3.477 | 3.855 | 2.204 | 10.260 |
| NPL | 35.649 | 45.891 | 35.661 | 33.394 | 27.743 | 33.138 | 66.144 | 52.760 |
| NCOL | 32.906 | 36.268 | 26.760 | 29.117 | 28.641 | 30.523 | 37.516 | 37.798 |
| PDVI | 36.617 | 45.438 | 35.922 | 36.129 | 34.673 | 35.974 | 62.752 | 51.349 |

CASCAPEDIA NORD SUITE

| CIPW | UN-CONTAMINATED 83-110$ | 83-111$ | 83-112$ | 83-113$ | : CONTAMINATED 83-96$ | 83-97$ | 83-109$ | 83-109C$ |
|---|---|---|---|---|---|---|---|---|
| Qtz | -- | -- | -- | -- | -- | -- | 11.91 | 10.65 |
| Cor | -- | -- | -- | -- | -- | -- | .50 | 3.16 |
| Or | 3.34 | 4.09 | 5.20 | 10.14 | 4.90 | 8.27 | 11.49 | 8.89 |
| Ab | 22.83 | 18.34 | 24.69 | 27.77 | 42.63 | 47.34 | 31.16 | 42.05 |
| An | 33.43 | 34.57 | 29.39 | 27.32 | 19.87 | 13.84 | 18.22 | 8.78 |
| MgDi | 10.25 | 5.80 | 10.82 | 3.98 | .89 | 8.65 | -- | -- |
| FeDi | 5.73 | 3.16 | 6.11 | 1.94 | .31 | 3.01 | -- | -- |
| Augt | 15.98 | 8.97 | 16.93 | 5.92 | 1.20 | 11.65 | -- | -- |
| Enst | 4.90 | 11.60 | .85 | 2.44 | 16.92 | 7.73 | 14.31 | 13.75 |
| Fesl | 3.15 | 7.26 | .55 | 1.36 | 6.74 | 3.08 | 7.64 | 8.03 |
| Hy | 8.05 | 18.86 | 1.40 | 3.79 | 23.66 | 10.81 | 21.96 | 21.78 |
| Fo | 6.55 | 5.23 | 10.01 | 12.71 | 1.86 | 2.46 | -- | -- |
| Fa | 4.63 | 3.61 | 7.14 | 7.81 | .82 | 1.08 | -- | -- |
| Ol | 11.18 | 8.84 | 17.15 | 20.52 | 2.68 | 3.55 | -- | -- |
| Chrm | .05 | .05 | .05 | .05 | .08 | .06 | .03 | .03 |
| Magn | 1.83 | 2.14 | 1.94 | 1.80 | 1.24 | 1.00 | 1.25 | 1.28 |
| Ilm | 2.69 | 2.80 | 2.55 | 2.28 | 2.07 | 2.07 | 2.01 | 2.11 |
| Zr | .02 | .02 | .02 | .02 | .04 | .05 | .04 | .04 |
| Ap | .45 | .32 | .41 | .36 | 1.44 | 1.22 | .88 | .87 |
| Pyrt | .16 | 1.00 | .28 | .02 | .18 | .14 | .55 | .35 |
| TTI | 3.361 | 4.113 | 5.216 | 10.158 | 4.942 | 8.311 | 23.938 | 22.750 |
| NPL | 57.966 | 63.969 | 52.855 | 48.098 | 30.511 | 21.589 | 35.519 | 16.438 |
| NCOL | 38.514 | 40.452 | 38.786 | 33.631 | 30.159 | 28.103 | 24.555 | 24.156 |
| PDVI | 55.862 | 58.820 | 51.194 | 46.666 | 39.205 | 32.527 | 33.611 | 24.046 |

RUISSEAU DE
LA TRUITE

| CIPW | 83-103$ | 83-104$ |
|---|---|---|
| Qtz | -- | -- |
| Cor | -- | -- |
| Or | 4.40 | 2.82 |
| Ab | 33.86 | 32.73 |
| An | 25.64 | 20.96 |
| Neph | -- | -- |
| MgDi | 3.34 | 13.25 |
| FeDi | 1.75 | 6.37 |
| Augt | 5.10 | 19.62 |
| Enst | 7.28 | .25 |
| Fesl | 4.38 | .14 |
| Hy | 11.66 | .38 |
| Fo | 6.74 | 9.74 |
| Fa | 4.47 | 5.91 |
| Ol | 11.21 | 15.65 |
| Chrm | .05 | .16 |
| Magn | 1.82 | 1.80 |
| Ilm | 3.65 | 3.28 |
| Zr | .06 | .05 |
| Ap | 2.35 | 2.22 |
| Pyrt | .21 | .32 |
| TTI | 4.457 | 2.870 |
| NPL | 41.633 | 37.630 |
| NCOL | 32.150 | 39.476 |
| PDVI | 43.885 | 44.221 |

# ANALYTICAL TABLES

## TRACE ELEMENTS

| | PABOS SILL | | | | : INTRUSIONS INTO MICTAW | | | |
|---|---|---|---|---|---|---|---|---|
| # | DP-13 | JB83-37 | 83-36 | MM-108 | 83-38 | 83-42 | 83-41 | GB-1146 |
| S | 1700. | 1200. | 1300. | 200. | 4600. | 500. | 1600. | 2000. |
| V | 260. | 340. | 350. | 380. | 380. | 430. | 400. | 380. |
| Cr | 180. | 84. | 77. | 50. | 90. | 49. | 58. | 44. |
| Ni | 74. | 51. | 51. | 36. | 60. | 33. | 38. | 41. |
| Cu | 110. | 73. | 75. | 29. | 81. | 61. | 58. | 99. |
| Zn | 75. | 96. | 97. | 68. | 100. | 160. | 150. | 110. |
| Rb | < 5. | 20. | 22. | 20. | 27. | 9. | 18. | 7. |
| Sr | 110. | 210. | 250. | 230. | 370. | 160. | 320. | 150. |
| Y | 20. | 30. | 30. | 34. | 34. | 41. | 46. | 43. |
| Zr | 47. | 84. | 89. | 120. | 97. | 160. | 150. | 160. |
| Nb | < 5. | < 5. | < 5. | < 5. | < 5. | < 5. | < 5. | < 5. |
| Ba | 10. | 150. | 150. | 60. | 380. | 60. | 610. | 80. |

| | DYKES CUTTING MICTAW | | | | : DYKES N OF CHANDLER | : RAUDIN SUITE | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | DIORITE | RHYODACITE | |
| # | JB83-43 | 83-44 | 92176 | 92179 | 83-45 | 83-46 | 83-26 | 83-34 |
| S | 1200. | 300. | 1600. | 800. | 500. | 400. | 600. | 400. |
| V | 330. | 420. | 390. | 410. | 330. | 280. | 160. | 22. |
| Cr | 42. | 42. | 68. | 39. | 293. | 330. | 37. | 6. |
| Ni | 33. | 33. | 45. | 35. | 100. | 110. | 50. | 8. |
| Cu | 34. | 34. | 78. | 63. | 160. | 110. | 25. | 23. |
| Zn | 110. | 110. | -- | -- | 110. | 100. | 92. | 26. |
| Rb | 17. | 11. | 11. | 21. | 41. | 12. | 59. | 88. |
| Sr | 130. | 130. | 230. | 270. | 210. | 390. | 390. | 250. |
| Y | 58. | 46. | 36. | 39. | 23. | 23. | 25. | 10. |
| Zr | 210. | 160. | 130. | 140. | 54. | 140. | 270. | 160. |
| Nb | < 5. | < 5. | 6. | < 5. | < 5. | 14. | 11. | 9. |
| Ba | 70. | 70. | 410. | 130. | 610. | 220. | 580. | 430. |

RAUDIN SUITE : FELSITES

| # | JB83-35 | 83-40 | MM-310 | SP-29 | MM-214 | GB-2154 | 83-58 | 83-69 |
|---|---|---|---|---|---|---|---|---|
| S | 100. | 900. | 200. | 200. | 100. | 100. | 100. | 600. |
| V | 16. | 75. | 25. | 63. | 56. | 22. | 31. | 6. |
| Cr | 8. | 14. | 7. | 16. | 15. | 5. | 14. | 5. |
| Ni | < 5. | 9. | 5. | 10. | 6. | < 5. | 14. | < 5. |
| Cu | 20. | 17. | 21. | 40. | 48. | 39. | 24. | < .3 |
| Zn | 43. | 49. | 47. | 64. | 71. | 44. | 120. | 51. |
| Rb | 86. | 48. | 57. | 53. | 71. | 110. | 43. | 74. |
| Sr | 190. | 490. | 210. | 540. | 360. | 100. | 310. | 70. |
| Y | 11. | 20. | 9. | 19. | 23. | 17. | < 5. | 27. |
| Zr | 170. | 290. | 170. | 280. | 240. | 170. | 150. | 620. |
| Nb | 9. | < 5. | 9. | 8. | 8. | 7. | 7. | 41. |
| Ba | 400. | 660. | 430. | 750. | 630. | 420. | 110. | 100. |

FELSITES : STEWART RIVER DYKES

| # | JB83-71 | MS-0231A | 83-63 | 83-64 | 83-65 | 83-66 | 83-67 |
|---|---|---|---|---|---|---|---|
| S | 300. | 100. | 1700. | 4300. | 2900. | 2900. | 600. |
| V | 6. | < 3. | 220. | 240. | 130. | 200. | 130. |
| Cr | 6. | 7. | 250. | 450. | 274. | 445. | 314. |
| Ni | 1. | 1. | 160. | 220. | 210. | 260. | 200. |
| Cu | 3. | 5. | 53. | 68. | 42. | 69. | 45. |
| Zn | 56. | 47. | 90. | 78. | 68. | 110. | 77. |
| Rb | 69. | 49. | 22. | 31. | 55. | 22. | 77. |
| Sr | 75. | 190. | 890. | 970. | 360. | 1200. | 580. |
| Y | 27. | 24. | 16. | 21. | 15. | 15. | 15. |
| Zr | 510. | 410. | 180. | 210. | 220. | 150. | 230. |
| Nb | 43. | 46. | 19. | 23. | 21. | 16. | 30. |
| Ba | 110. | 180. | 390. | 580. | 610. | 390. | 880. |

| | STEWART RIVER | | | RUISSEAU ALAIN | | GRANDE CASCAPEDIA SUD | |
|---|---|---|---|---|---|---|---|
| # | JB83-68 | 83-73 | MS-0231B | 83-74 | 83-75 | F83-4 | F83-5 |
| S | 700. | 1300. | 400. | 1900. | 800. | 5900. | 4800. |
| V | 130. | 150. | 140. | 300. | 250. | 370. | 380. |
| Cr | 296. | 88. | 131. | 41. | 48. | 60. | 72. |
| Ni | 200. | 54. | 110. | 27. | 31. | 45. | 37. |
| Cu | 43. | 4. | 35. | 44. | 36. | 51. | 46. |
| Zn | 71. | 51. | 120. | 110. | 88. | 110. | 110. |
| Rb | 66. | 67. | 28. | 32. | 34. | 26. | 31. |
| Sr | 580. | 160. | 530. | 920. | 240. | 650. | 920. |
| Y | 15. | 14. | 13. | 28. | 23. | 26. | 32. |
| Zr | 250. | 160. | 240. | 220. | 170. | 220. | 240. |
| Nb | 26. | 14. | 20. | 18. | 10. | 15. | 13. |
| Ba | 690. | 160. | 430. | 430. | 70. | 660. | 740. |

| | BLACK-CAPE | | | TYPE-SECTION LAC McKAY | |
|---|---|---|---|---|---|
| | | | | 1236 m | 1188 m |
| # | 83-120 | 83-121 | 83-122 | 83-82A | 83-83 |
| S | 200. | 100. | 100. | 100. | 100. |
| V | 160. | 180. | 180. | 130. | 180. |
| Cr | 46. | 83. | 38. | 47. | 8. |
| Ni | 41. | 66. | 32. | 5. | 74. |
| Cu | 15. | 39. | 33. | 99. | 41. |
| Zn | 67. | 79. | 94. | 110. | 76. |
| Rb | 29. | 40. | 38. | 35. | 35. |
| Sr | 390. | 410. | 450. | 590. | 970. |
| Y | 23. | 25. | 34. | 45. | 16. |
| Zr | 160. | 210. | 240. | 400. | 210. |
| Nb | 11. | 10. | 13. | 31. | 21. |
| Ba | 510. | 340. | 420. | 550. | 750. |

SILLS UNDER TYPE-SECTION — GRANDE CASCAPEDIA

LAC McKAY — UN-CONTAMINATED

| # | JB83-79 | 83-80 | 83-100 | 83-102 | 83-114 | F83-3 | 83-98 | 83-99 |
|---|---|---|---|---|---|---|---|---|
| S | 1700. | 900. | 1800. | 2200. | 900. | 1700. | 2100. | 1300. |
| V | 290. | 250. | 230. | 290. | 200. | 280. | 280. | 280. |
| Cr | 53. | 16. | 49. | 18. | 14. | 38. | 230. | 353. |
| Ni | 19. | 56. | 61. | 36. | 17. | 53. | 140. | 150. |
| Cu | 85. | 98. | 86. | 85. | 56. | 120. | 120. | 120. |
| Zn | 100. | 86. | 81. | 140. | 83. | 87. | 86. | 91. |
| Rb | 31. | 33. | 37. | 10. | 20. | 17. | 18. | 20. |
| Sr | 740. | 540. | 290. | 224. | 190. | 800. | 280. | 340. |
| Y | 33. | 23. | 23. | 27. | 28. | 25. | 19. | 21. |
| Zr | 220. | 150. | 180. | 210. | 270. | 180. | 57. | 61. |
| Nb | 16. | 10. | 19. | 18. | 21. | 16. | 5. | 5. |
| Ba | 370. | 200. | 110. | 60. | 60. | 230. | 120. | 140. |

GRANDE CASCAPEDIA SUITE

UN-CONTAMINATED : CONTAMINATED

| # | JB83-110 | 83-111 | 83-112 | 83-113 | 83-96 | 83-97 | 83-109 | 83-109C |
|---|---|---|---|---|---|---|---|---|
| S | 800. | 4800. | 1400. | 100. | 900. | 700. | 2700. | 1800. |
| V | 260. | 250. | 180. | 180. | 130. | 130. | 140. | 150. |
| Cr | 161. | 149. | 156. | 180. | 254. | 211. | 85. | 91. |
| Ni | 110. | 120. | 110. | 150. | 190. | 140. | 68. | 66. |
| Cu | 122. | 100. | 100. | 96. | 60. | 17. | 34. | 36. |
| Zn | 74. | 76. | 74. | 73. | 54. | 52. | 74. | 77. |
| Rb | 20. | 24. | 37. | 54. | 25. | 37. | 55. | 47. |
| Sr | 600. | 520. | 400. | 880. | 910. | 1000. | 440. | 770. |
| Y | 24. | 20. | 17. | 14. | 15. | 13. | 21. | 21. |
| Zr | 79. | 87. | 81. | 79. | 200. | 210. | 200. | 210. |
| Nb | 6. | 6. | 7. | < 5. | 19. | 21. | 18. | 19. |
| Ba | 180. | 150. | 140. | 280. | 860. | 620. | 750. | 930. |

RUISSEAU DE LA TRUITE

| # | JB83-103 | 83-104 |
|---|---|---|
| S | 1000. | 1500. |
| V | 210. | 200. |
| Cr | 159. | 507. |
| Ni | 89. | 180. |
| Cu | 65. | 60. |
| Zn | 79. | 78. |
| Rb | 20. | 13. |
| Sr | 1000. | 780. |
| Y | 25. | 20. |
| Zr | 250. | 200. |
| Nb | 30. | 26. |
| Ba | 480. | 330. |

REE ANALYSES

| # : | DP-13 | 83-44 | 83-46 | 83-35 | 83-71 | 83-63 | 83-121 | 83-75 |
|---|---|---|---|---|---|---|---|---|
| La | 1.4 | 6.1 | 12.4 | 26.4 | 63.3 | 54.7 | 28.8 | 12.3 |
| Ce | 5.5 | 19.4 | 30.0 | 46.6 | 131.4 | 108.1 | 67.0 | 31.1 |
| Nd | 5.0 | 17.3 | 19.4 | 16.8 | 47.1 | 42.6 | 32.9 | 19.0 |
| Sm | 2.29 | 6.36 | 5.47 | 3.26 | 6.94 | 7.06 | 6.36 | 6.60 |
| Eu | .86 | 1.73 | 1.47 | .71 | 1.28 | 1.80 | 1.78 | 1.65 |
| Tb | -- | 1.48 | .71 | .11 | .66 | .52 | .64 | .84 |
| Ho | -- | 2.07 | .96 | .33 | .97 | .76 | 1.18 | 1.05 |
| Tm | .39 | -- | -- | -- | .39 | .17 | .89 | .31 |
| Yb | 1.83 | 5.39 | 2.30 | .60 | 3.04 | 1.50 | 2.44 | 2.30 |
| Lu | .37 | .81 | .30 | .12 | .51 | .24 | .44 | .37 |
| Sc | -- | 40. | -- | 3. | 1. | 21. | 23. | 26. |
| Co | -- | 43. | -- | 25. | 15. | 38. | 38. | 38. |
| Hf | 1.5 | 4.7 | 3.7 | 4.3 | 11.0 | 4.6 | 5.5 | 3.8 |
| Ta | .4 | .3 | .9 | 1.3 | 3.5 | 1.2 | .8 | .3 |
| Th | .1 | .3 | .8 | 9.7 | 9.9 | 10.0 | 6.5 | 1.2 |
| U | .1 | .1 | .2 | 1.8 | 2.9 | 1.8 | 1.3 | .5 |

| # | 83-82A | 83-90 | 83-80 | 83-98 | 83-102 | 83-112 |
|---|---|---|---|---|---|---|
| La | 84.6 | 28.2 | 21.2 | 9.2 | 55.4 | 20.7 |
| Ce | 178.0 | 62.0 | 42.6 | 19.1 | 111.6 | 41.2 |
| Nd | 74.5 | 30.3 | 21.3 | 11.5 | 47.7 | 18.6 |
| Sm | 13.37 | 6.55 | 5.18 | 2.88 | 8.24 | 4.01 |
| Eu | 3.30 | 2.02 | 1.51 | 1.00 | 2.74 | 1.43 |
| Tb | 1.41 | .83 | .79 | .60 | .98 | .49 |
| Tm | .67 | .50 | .46 | .24 | .39 | .30 |
| Ho | 2.07 | 1.34 | -- | .98 | 1.38 | .85 |
| Yb | 4.44 | 2.88 | 2.51 | 2.41 | 2.70 | 1.89 |
| Lu | .70 | .46 | .34 | .39 | .45 | .28 |
| Sc | 20. | 37. | 33. | 43. | 32. | 36. |
| Co | 24. | 49. | 49. | 62. | 49. | 47. |
| Hf | 9.2 | 4.7 | 3.6 | 1.8 | 5.0 | 2.3 |
| Ta | 2.3 | -- | .5 | .3 | .7 | .5 |
| Th | 18.0 | 5.7 | 3.5 | 1.5 | 9.7 | 3.6 |
| U | 1.6 | 1.0 | -- | .2 | 1.3 | .5 |