

1541 BAYVIEW LAKE	04E MONTGOMERY POUNDER	04F WAKE	04G TRUTH	04H BEATTON LAKE	04I SANDRA ELVIS
1544 BAYVIEW LAKE	04C MCCONNELL GREEN	04D MILLER LAKE	04E HARNEY	04F CLARK LAKE	04G CLEAR LAKE
04H MAYN	04I MAYN	04J MAYN	04K MAYN	04L MAYN	04M MAYN
04N MAYN	04O MAYN	04P MAYN	04Q MAYN	04R MAYN	04S MAYN
04T MAYN	04U MAYN	04V MAYN	04W MAYN	04X MAYN	04Y MAYN
04Z MAYN	04A MAYN	04B MAYN	04C MAYN	04D MAYN	04E MAYN
04F MAYN	04G MAYN	04H MAYN	04I MAYN	04J MAYN	04K MAYN
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04T MAYN	04U MAYN	04V MAYN	04W MAYN	04X MAYN	04Y MAYN
04Z MAYN	04A MAYN	04B MAYN			

Airborne Geophysical Survey Area
 Provincial boundary
 Railroad (unclassified)
 Road (unclassified)
 Mineral deposit (selected)
 Populated place (unclassified)

value breakdown

- > 1.5
- 1 to 1.5
- 0 to 1
- 1 to 0
- 1.5 to -1
- 10 to -1.5

values above cluster norm

values below cluster norm

The levelled and imputed element grids (Barnett and Williams, 2009) were intersected by the sample locations and the values assigned to the sample point. Note, missing element values have been imputed.

The SiRoSOM procedure assigns each sample to a best-matching cluster (BMU) and samples that are similar tend to be assigned to either the same BMU or nearby BMUs that are close on the self-organized map. To assist with interpretation the SOM-derived BMU "vectors" were analyzed using K-means to produce 20 classes. Field samples have been coloured according to the cluster—assignment of their particular BMU.

"Cluster-Normalized" element anomaly maps have been produced with samples normalized to the mean and standard deviation of the K-means cluster to which a sample's BMU belongs. Users are cautioned that normalization by the K-means cluster mean may make intrinsically small anomalies appear more significant than they are. Normalization is only present in small amounts in a set of samples assigned to a cluster, then the normalization process applied here will make the higher values in this low valued group anomalous.

Fraser, S.J., and Hodgkinson, J.H., (2009): An Investigation Using SiroSOM for the Analysis of QUEST Stream-Sediment and Lake-Sediment Geochemical Data. September 2009, Geoscience BC, Report 2009-14; CSIRO Exploration and Mining Report 2009/983. 64 p.

Barnett, C. T. and Williams, P. M. (2009): Using geochemistry and neural networks to map geology under glacial cover, Geoscience BC, Report 2009-3.

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Massey, N.W.D., MacIntyre, D.G., Desjardins, P.J. and Cooney, R.T. (2005): Digital Geology Map of British Columbia: Whole Province; B.C. Ministry of Energy and Mines, Geofile 2005-1.

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Development
INITIATIVE TRUST**

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MAP 2009-14-37
GEOCHEMISTRY - CSIRO SOM ANALYSIS
Cluster Normalised C:N Ratios - Anomalous

QUEST PROJECT
1-250 000 NTS SHEETS 83A B C E G H I J K N O P

92M,N,O,P; 93D,E,L,M AND 94A,B,C,D

1 : 500,000

Universal Transverse Mercator Projection, Zone 10
Horizontal Datum: North American Datum 1983

Citation: _____

scale 1 : 500 000.