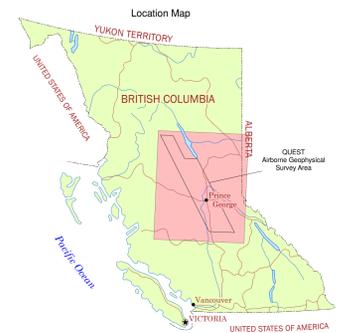
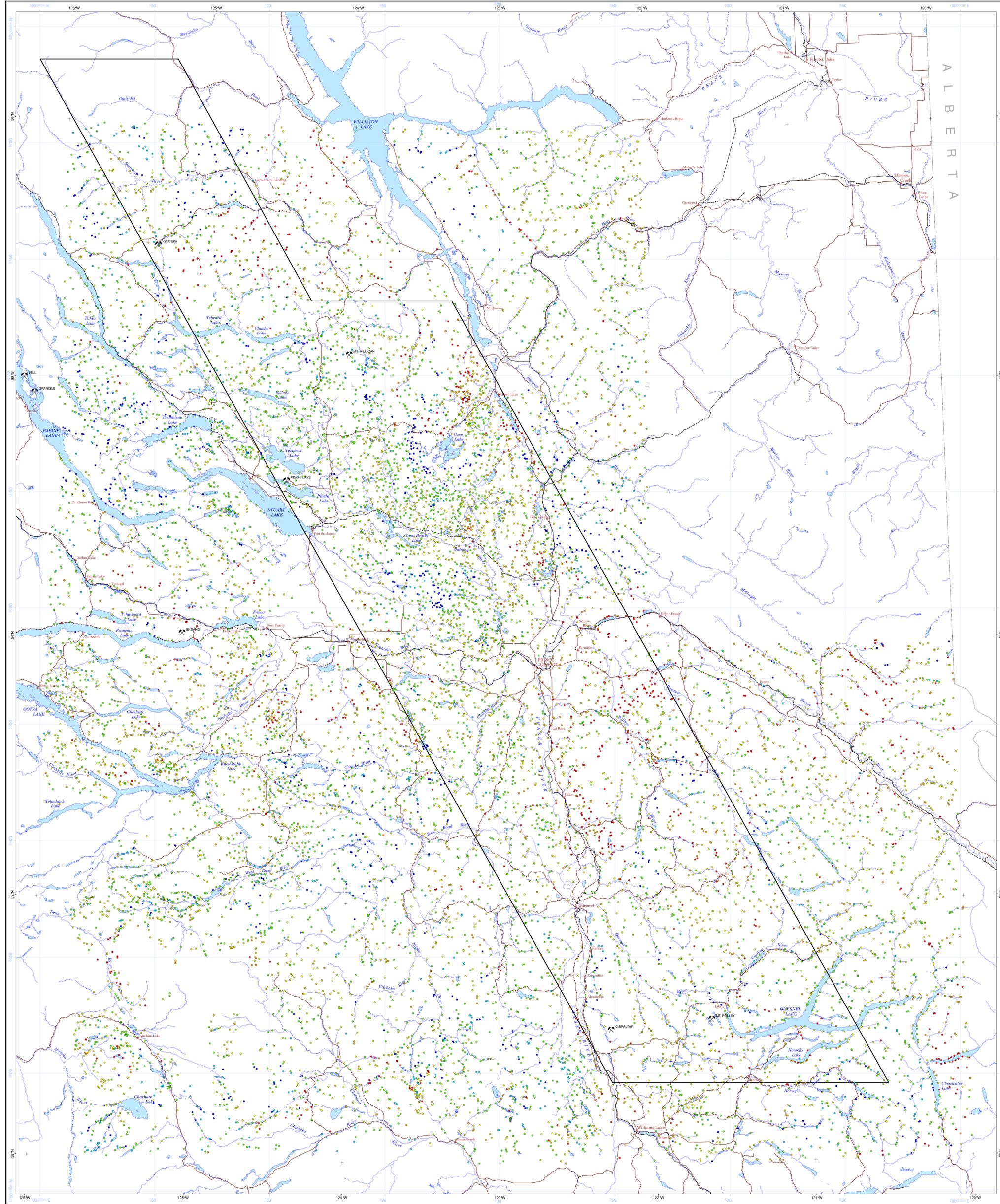
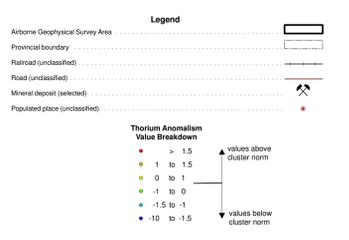
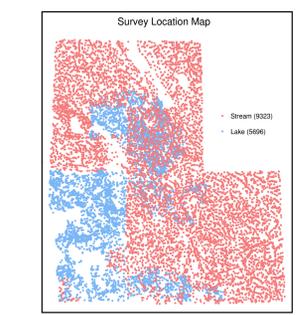


Disclaimer: While every effort has been taken to ensure the accuracy of the information in this map, the data are provided on an "as-is" basis, without any warranty, guarantee or representation of any kind, whether expressed or implied. It is the responsibility of the user to check the facts before entering any financial or other commitment based upon this information.



National Topographic System Index

93A SWIFT RIVER	93B COLUMBIA RIVER	93C WISSE RIVER	93D PEACE RIVER	93E SECTON RIVER	93F CHARLOTTE RIVER
93G WILSON LAKE	93H WILSON LAKE	93I WILSON LAKE	93J WILSON LAKE	93K WILSON LAKE	93L WILSON LAKE
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93ZU WILSON LAKE	93ZV WILSON LAKE	93ZW WILSON LAKE	93ZX WILSON LAKE	93ZY WILSON LAKE	93ZZ WILSON LAKE



**QUEST Geochemistry CSIRO SOM Analysis - Cluster-Normalized Element Anomalism**

The leveled 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 unit (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 SiroSOM-derived BMU "vector" was analyzed using K-means to produce 20 classes. Field samples have been colored 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 may make relatively small numbers anomalous. Specifically, if an element is normally 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.

- Data Analysis**
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- Topographic Data**
- Massey, N.W.D., Mackinnon, 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, Geofiles 2005-1.
- Data Sources**
- Geoscience BC: Ministry of Energy, Mines and Petroleum Resources  
www.geosciencebc.com
- www.gmp.gov.bc.ca/mining/geoscience
- Acknowledgments**
- Cartography by Flor Ma, Geoscience BC
- Numerical analysis by CSIRO, Australia - www.csiro.au
- Geoscience BC is funded through grants from the Provincial Government of British Columbia. QUEST is funded in partnership with the Northern Development Initiative Trust - www.nditrust.ca

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MAP 2009-14-39  
GEOCHEMISTRY - CSIRO SOM ANALYSIS  
Cluster-Normalized Thorium Anomalism  
**QUEST PROJECT**  
1:250 000 NTS SHEETS 93A,B,C,F,G,H,I,J,K,N,O,P  
PART OF 1:250 000 NTS SHEETS 82M, 83D,E,L,M, 84D,  
92M,N,O,P, 93D,E,L,M AND 94A,B,C,D

1:500,000

0 5 10 15 20 25 30 35 40 45 50 kms

Universal Transverse Mercator Projection, Zone 10  
Horizontal Datum: North American Datum 1983  
Mean magnetic declination 2009, 19° 18' E, decreasing 14.6" annually. Readings vary from 17° 42' E in the southeast corner to 20° 34' E in the northwest corner of the map.

September 16, 2009

**Citation:**  
Geoscience BC (2009): QUEST Project - Geochemistry - CSIRO SOM Analysis: Cluster-Normalized Thorium Anomalism; Geoscience BC, Map 2009-14-39, issue 1:500,000.

GEOCHEMISTRY - QUEST - GEOCHEMISTRY - CSIRO SOM ANALYSIS