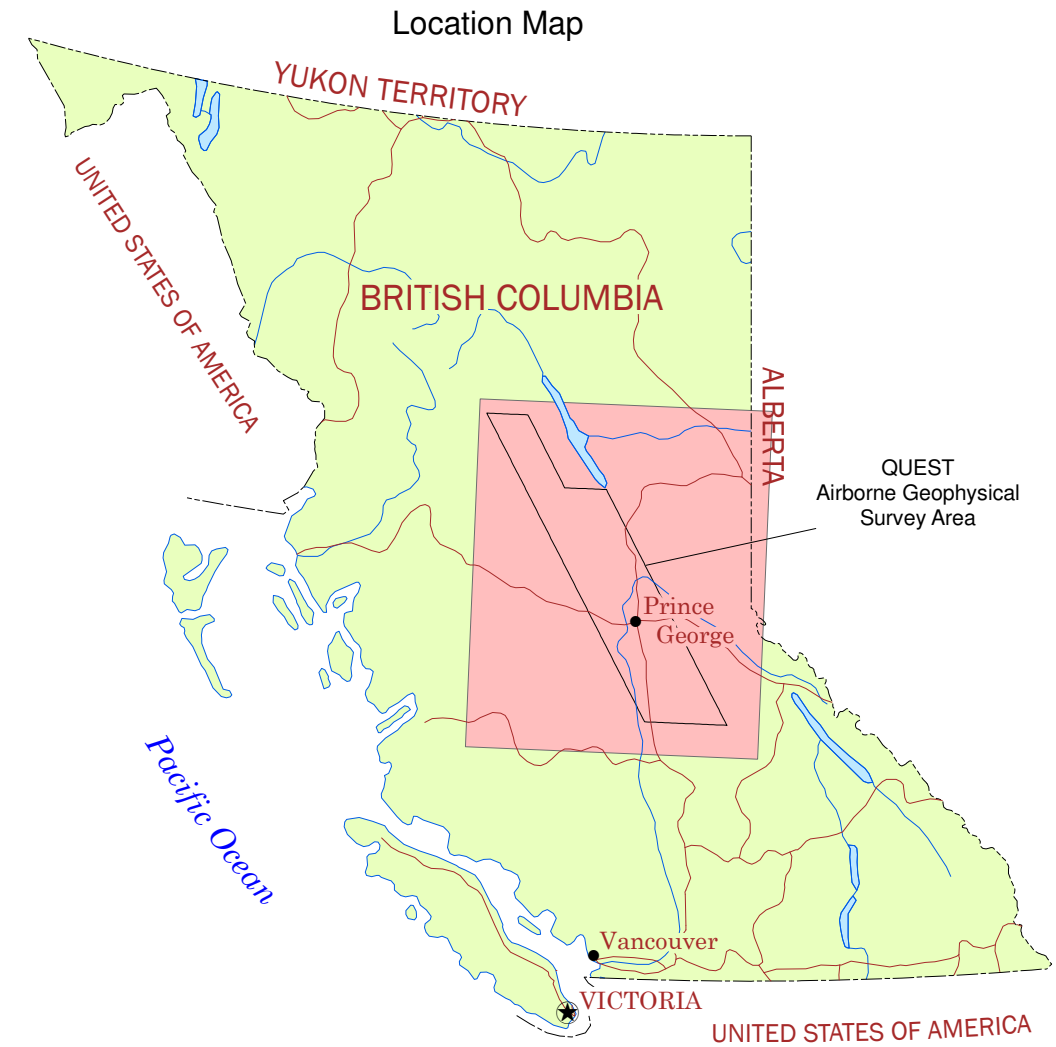
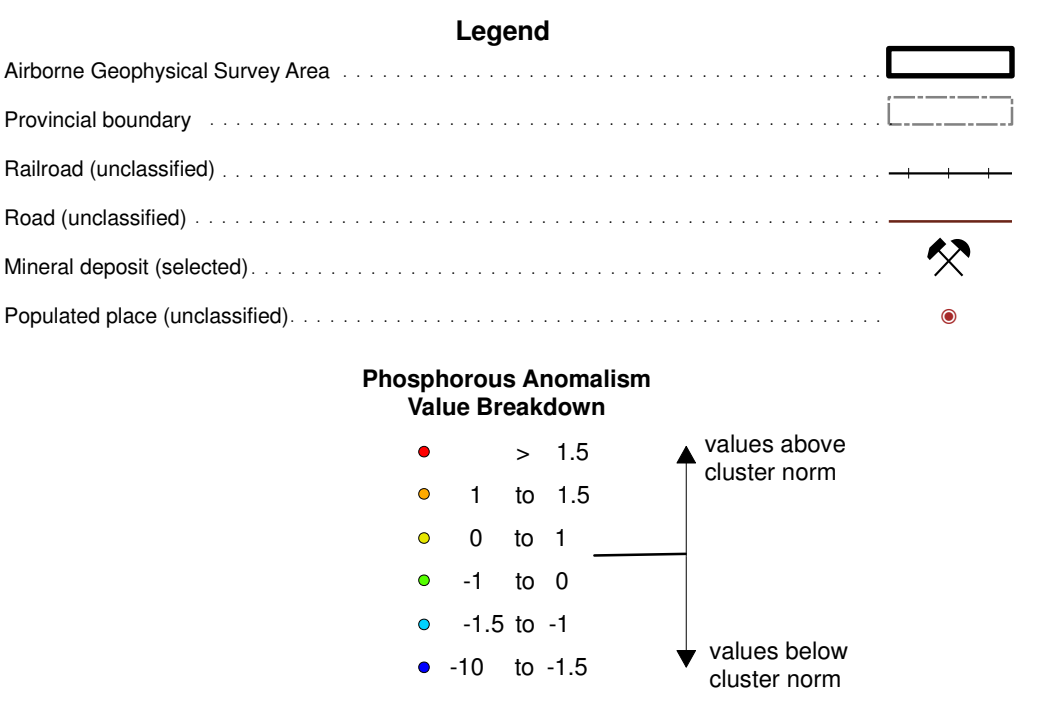
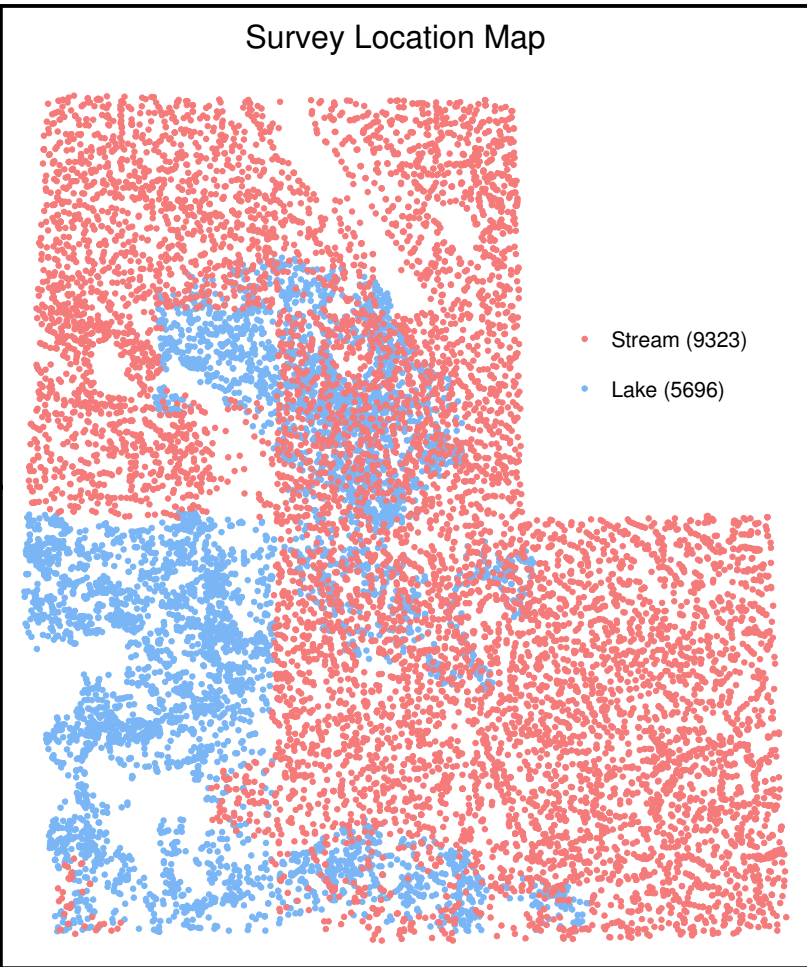


Disclaimer: While every effort has been taken to ensure the accuracy of the information in this map, the data are provided on an "as is" basis, without any warranty, guarantee or representation of any kind, whether expressed or implied. It is the responsibility of the user to check the facts before entering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



National Topographic System Index

|                         |                           |                           |                           |                           |
|-------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 18M<br>SPENCER<br>RIVER | 08E<br>COWICHAN<br>RIVER  | 09E<br>WHEE<br>RIVER      | 09M<br>SEATTLE<br>RIVER   | 09H<br>CHICAGO<br>RIVER   |
| 18A<br>LAKE             | 08C<br>MCCORMICK<br>RIVER | 08C<br>MCCORMICK<br>RIVER | 08B<br>MCCORMICK<br>RIVER | 08A<br>MCCORMICK<br>RIVER |
| 18P<br>RIVER            | 08W<br>MCCORMICK<br>RIVER | 08N<br>MCCORMICK<br>RIVER | 08D<br>MCCORMICK<br>RIVER | 08P<br>MCCORMICK<br>RIVER |
| 02E<br>TERRACE          | 02S<br>JACKSON<br>LAKE    | 02K<br>JACKSON<br>LAKE    | 02J<br>JACKSON<br>LAKE    | 02I<br>JACKSON<br>LAKE    |
| 10H<br>DOUGLAS<br>LAKE  | 02E<br>WHEATLAND<br>LAKE  | 02E<br>WHEATLAND<br>LAKE  | 02E<br>WHEATLAND<br>LAKE  | 02E<br>WHEATLAND<br>LAKE  |
| 10A<br>DOUGLAS<br>LAKE  | 02D<br>WHEATLAND<br>LAKE  | 02D<br>WHEATLAND<br>LAKE  | 02D<br>WHEATLAND<br>LAKE  | 02D<br>WHEATLAND<br>LAKE  |
| 10P<br>DOUGLAS<br>LAKE  | 02M<br>WHEATLAND<br>LAKE  | 02M<br>WHEATLAND<br>LAKE  | 02M<br>WHEATLAND<br>LAKE  | 02M<br>WHEATLAND<br>LAKE  |



QUEST Geochemistry CSIRO SOM Analysis - Cluster-Normalized Element Anomalism

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 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 "vectors" were analysed 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 may make intrinsically 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.

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Geochemistry Data

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Original Data  
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Jackman, W. (2007): Regional drainage sediment and water geochemical data, South Nechako Basin and Cariboo Basin, central British Columbia (parts of NTS 903, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000); Geoscience BC, Report 2007-6, 332 p.

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Topographic Data

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Data Sources

Geoscience BC  
www.geosciencebc.com  
Ministry of Energy, Mines and Petroleum Resources  
www.empr.gov.bc.ca/mining/geoscience

Acknowledgments

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Numerical analysis by CSIRO, Australia - www.csiro.au

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MAP 2009-14-29

GEOCHEMISTRY - CSIRO SOM ANALYSIS  
Cluster-Normalized Phosphorous 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°48' E, decreasing 1.6° annually. Readings vary from 17°42' E in the southeast corner to 20°14' E in the northwest corner of the map.

September 16, 2009

Citation:  
Geoscience BC (2009): QUEST Project - Geochemistry - CSIRO SOM Analysis:  
Cluster-Normalized Phosphorous Anomalism; Geoscience BC, Map 2009-14-29,  
scale 1:500,000.