

Location Map

YUKON TERRITORY

BRITISH COLUMBIA

ALBERTA

UNITED STATES OF AMERICA

Pacific Ocean

QUET Airborne Geophysical Survey Area

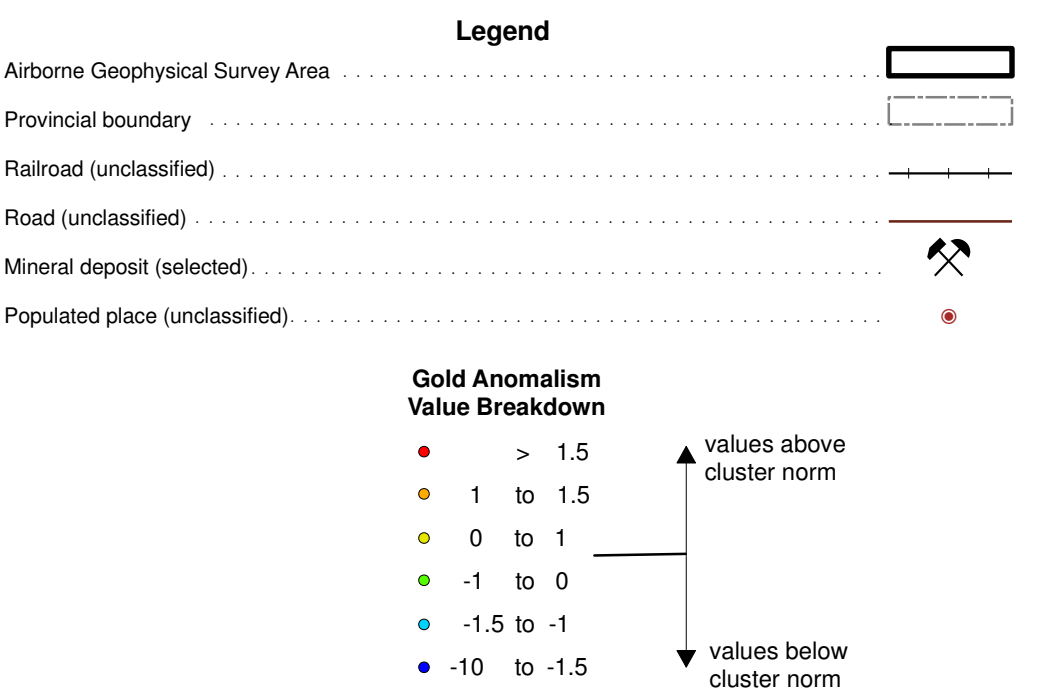
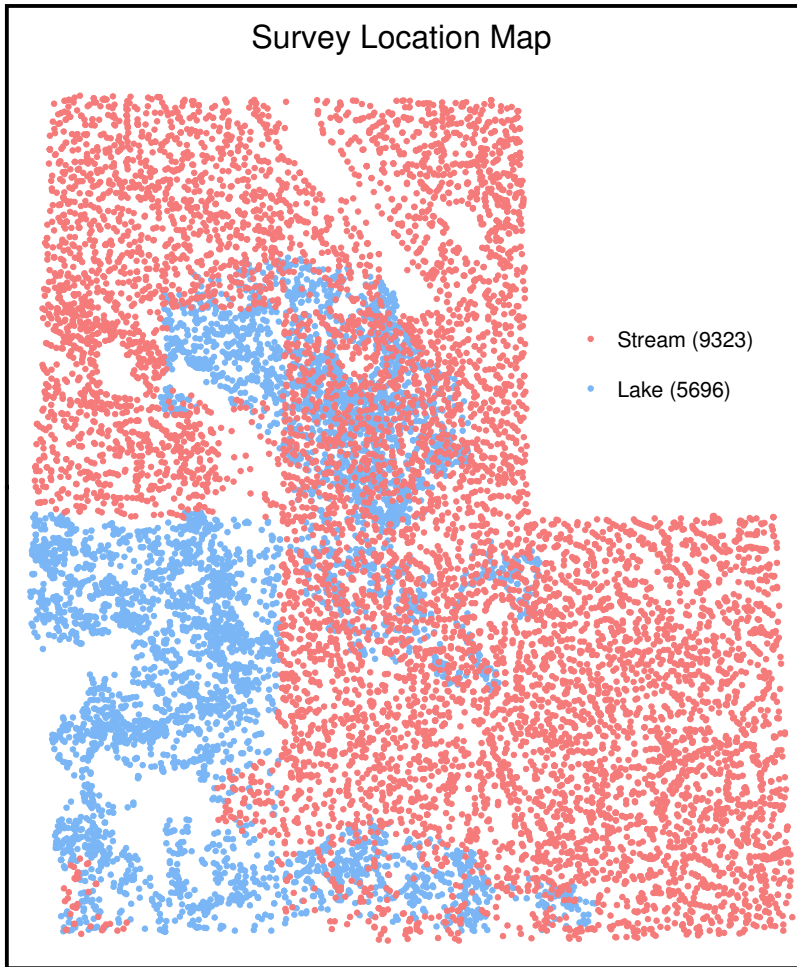
Prince George

Vancouver

VICTORIA

UNITED STATES OF AMERICA

| National Topographic System Index |                      |                      |                        |                        |
|-----------------------------------|----------------------|----------------------|------------------------|------------------------|
| 154F<br>DOODSON<br>RIVER          | 69E<br>WAG<br>RIVER  | 69G<br>WAG<br>RIVER  | 69H<br>TRUTHA<br>RIVER | 69I<br>TRUTHA<br>RIVER |
| 154S<br>DOODSON<br>CHL            | 69J<br>WAG<br>RIVER  | 69K<br>WAG<br>RIVER  | 69L<br>WAG<br>RIVER    | 69M<br>WAG<br>RIVER    |
| 154P<br>WAG<br>RIVER              | 69N<br>WAG<br>RIVER  | 69O<br>WAG<br>RIVER  | 69P<br>WAG<br>RIVER    | 69Q<br>WAG<br>RIVER    |
| 154T<br>WAG<br>RIVER              | 69R<br>WAG<br>RIVER  | 69S<br>WAG<br>RIVER  | 69T<br>WAG<br>RIVER    | 69V<br>WAG<br>RIVER    |
| 154I<br>WAG<br>RIVER              | 69U<br>WAG<br>RIVER  | 69X<br>WAG<br>RIVER  | 69Y<br>WAG<br>RIVER    | 69Z<br>WAG<br>RIVER    |
| 154V<br>WAG<br>RIVER              | 69AA<br>WAG<br>RIVER | 69AB<br>WAG<br>RIVER | 69AC<br>WAG<br>RIVER   | 69AD<br>WAG<br>RIVER   |
| 154W<br>WAG<br>RIVER              | 69AE<br>WAG<br>RIVER | 69AF<br>WAG<br>RIVER | 69AG<br>WAG<br>RIVER   | 69AH<br>WAG<br>RIVER   |
| 154X<br>WAG<br>RIVER              | 69AI<br>WAG<br>RIVER | 69AJ<br>WAG<br>RIVER | 69AK<br>WAG<br>RIVER   | 69AL<br>WAG<br>RIVER   |
| 154Y<br>WAG<br>RIVER              | 69AM<br>WAG<br>RIVER | 69AN<br>WAG<br>RIVER | 69AO<br>WAG<br>RIVER   | 69AP<br>WAG<br>RIVER   |
| 154Z<br>WAG<br>RIVER              | 69AQ<br>WAG<br>RIVER | 69AR<br>WAG<br>RIVER | 69AS<br>WAG<br>RIVER   | 69AT<br>WAG<br>RIVER   |
| 154A<br>WAG<br>RIVER              | 69AU<br>WAG<br>RIVER | 69AV<br>WAG<br>RIVER | 69AW<br>WAG<br>RIVER   | 69AX<br>WAG<br>RIVER   |
| 154B<br>WAG<br>RIVER              | 69AY<br>WAG<br>RIVER | 69AZ<br>WAG<br>RIVER | 69BA<br>WAG<br>RIVER   | 69BB<br>WAG<br>RIVER   |
| 154C<br>WAG<br>RIVER              | 69CA<br>WAG<br>RIVER | 69CB<br>WAG<br>RIVER | 69CC<br>WAG<br>RIVER   | 69CD<br>WAG<br>RIVER   |
| 154D<br>WAG<br>RIVER              | 69CE<br>WAG<br>RIVER | 69CF<br>WAG<br>RIVER | 69CG<br>WAG<br>RIVER   | 69CH<br>WAG<br>RIVER   |
| 154E<br>WAG<br>RIVER              | 69CI<br>WAG<br>RIVER | 69CJ<br>WAG<br>RIVER | 69CK<br>WAG<br>RIVER   | 69CL<br>WAG<br>RIVER   |
| 154F<br>WAG<br>RIVER              | 69CM<br>WAG<br>RIVER | 69CN<br>WAG<br>RIVER | 69CO<br>WAG<br>RIVER   | 69CP<br>WAG<br>RIVER   |
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| 154K<br>WAG<br>RIVER              | 69DH<br>WAG<br>RIVER | 69DI<br>WAG<br>RIVER | 69DJ<br>WAG<br>RIVER   | 69DK<br>WAG<br>RIVER   |
| 154L<br>WAG<br>RIVER              | 69DL<br>WAG<br>RIVER | 69DM<br>WAG<br>RIVER | 69DN<br>WAG<br>RIVER   | 69DO<br>WAG<br>RIVER   |
| 154M<br>WAG<br>RIVER              | 69DP<br>WAG<br>RIVER | 69DQ<br>WAG<br>RIVER | 69DR<br>WAG<br>RIVER   | 69DS<br>WAG<br>RIVER   |
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| 154O<br>WAG<br>RIVER              | 69DX<br>WAG<br>RIVER | 69DY<br>WAG<br>RIVER | 69DZ<br>WAG<br>RIVER   | 69EA<br>WAG<br>RIVER   |
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| 154U<br>WAG<br>RIVER              | 69EV<br>WAG<br>RIVER | 69EW<br>WAG<br>RIVER | 69EX<br>WAG<br>RIVER   | 69EY<br>WAG<br>RIVER   |
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| 154W<br>WAG<br>RIVER              | 69FD<br>WAG<br>RIVER | 69FE<br>WAG<br>RIVER | 69FF<br>WAG<br>RIVER   | 69FG<br>WAG<br>RIVER   |
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| 154X<br>WAG<br>RIVER              | 69JH<br>WAG<br>RIVER | 69JI<br>WAG<br>RIVER | 69JJ<br>WAG<br>RIVER   | 69JK<br>WAG<br>RIVER   |
| 154Y<br>WAG<br>RIVER              | 69JL<br>WAG<br>RIVER | 69JM<br>WAG<br>RIVER | 69JN<br>WAG<br>RIVER   | 69JO<br>WAG<br>RIVER   |
| 154Z<br>WAG<br>RIVER              | 69JP<br>WAG<br>RIVER | 69JQ<br>WAG<br>RIVER | 69JR<br>WAG<br>RIVER   | 69JS<br>WAG<br>RIVER   |
| 154A<br>WAG<br>RIVER              | 69JT<br>WAG<br>RIVER | 69JU<br>WAG<br>RIVER | 69JV<br>WAG<br>RIVER   | 69JW<br>WAG<br>RIVER   |
| 154B<br>WAG<br>RIVER              | 69JX<br>WAG<br>RIVER | 69JY<br>WAG<br>RIVER | 69JZ<br>WAG<br>RIVER   | 69KA<br>WAG<br>RIVER   |
| 154C<br>WAG<br>RIVER              | 69KB<br>WAG<br>RIVER | 69KC<br>WAG<br>RIVER | 69KD<br>WAG<br>RIVER   | 69KE<br>WAG<br>RIVER   |
| 154D<br>WAG<br>RIVER              | 69KF<br>WAG<br>RIVER | 69KG<br>WAG<br>RIVER | 69KH<br>WAG<br>RIVER   | 69KI<br>WAG<br>RIVER   |
| 154E<br>WAG<br>RIVER              | 69KJ<br>WAG<br>RIVER | 69KK<br>WAG<br>RIVER | 69KL<br>WAG<br>RIVER   | 69KM<br>WAG<br>RIVER   |
| 154F<br>WAG<br>RIVER              | 69KN<br>WAG<br>RIVER | 69KO<br>WAG<br>RIVER | 69KP<br>WAG<br>RIVER   | 69KQ<br>WAG<br>RIVER   |
| 154G<br>WAG<br>RIVER              | 69KR<br>WAG<br>RIVER | 69KS<br>WAG<br>RIVER | 69KT<br>WAG<br>RIVER   | 69KU<br>WAG<br>RIVER   |
| 154H<br>WAG<br>RIVER              | 69KV<br>WAG<br>RIVER | 69KW<br>WAG<br>RIVER | 69KX<br>WAG<br>RIVER   | 69KY<br>WAG<br>RIVER   |
| 154I<br>WAG<br>RIVER              | 69KZ<br>WAG<br>RIVER | 69LA<br>WAG<br>RIVER | 69LB<br>WAG<br>RIVER   | 69LC<br>WAG<br>RIVER   |
| 154J<br>WAG<br>RIVER              | 69LD<br>WAG<br>RIVER | 69LE<br>WAG<br>RIVER | 69LF<br>WAG<br>RIVER   | 69LG<br>WAG<br>RIVER   |
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| 154L<br>WAG<br>RIVER              | 69LL<br>WAG<br>RIVER | 69LM<br>WAG<br>RIVER | 69LN<br>WAG<br>RIVER   | 69LO<br>WAG<br>RIVER   |
| 154M<br>WAG<br>RIVER              | 69LP<br>WAG<br>RIVER | 69LQ<br>WAG<br>RIVER | 69LR<br>WAG<br>RIVER   | 69LS<br>WAG<br>RIVER   |
| 154N<br>WAG<br>RIVER              | 69LT<br>WAG<br>RIVER | 69LU<br>WAG<br>RIVER | 69LV<br>WAG<br>RIVER   | 69LW<br>WAG<br>RIVER   |
| 154O<br>WAG<br>RIVER              | 69LX<br>WAG<br>RIVER | 69LY<br>WAG<br>RIVER | 69LZ<br>WAG<br>RIVER   | 69MA<br>WAG<br>RIVER   |
| 154P<br>WAG<br>RIVER              | 69MB<br>WAG<br>RIVER | 69MC<br>WAG<br>RIVER | 69MD<br>WAG<br>RIVER   | 69ME<br>WAG<br>RIVER   |
| 154Q<br>WAG<br>RIVER              | 69MF<br>WAG<br>RIVER | 69MG<br>WAG<br>RIVER | 69MH<br>WAG<br>RIVER   | 69MI<br>WAG<br>RIVER   |
| 154R<br>WAG<br>RIVER              | 69MJ<br>WAG<br>RIVER | 69MK<br>WAG<br>RIVER | 69ML<br>WAG<br>RIVER   | 69MN<br>WAG<br>RIVER   |
| 154S<br>WAG<br>RIVER              | 69MM<br>WAG<br>RIVER | 69MO<br>WAG<br>RIVER | 69MP<br>WAG<br>RIVER   | 69MQ<br>WAG<br>RIVER   |
| 154T<br>WAG<br>RIVER              | 69MR<br>WAG<br>RIVER | 69MS<br>WAG<br>RIVER | 69MT<br>WAG<br>RIVER   | 69MU<br>WAG<br>RIVER   |
| 154U<br>WAG<br>RIVER              | 69MV<br>WAG<br>RIVER | 69MW<br>WAG<br>RIVER | 69MX<br>WAG<br>RIVER   | 69MY<br>WAG<br>RIVER   |
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| 154Y<br>WAG<br>RIVER              | 69NL<br>WAG<br>RIVER | 69NN<br>WAG<br>RIVER | 69NO<br>WAG<br>RIVER   | 69NP<br>WAG<br>RIVER   |
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| 154D<br>WAG<br>RIVER              | 69OH<br>WAG<br>RIVER | 69OI<br>WAG<br>RIVER | 69OJ<br>WAG<br>RIVER   | 69OK<br>WAG<br>RIVER   |
| 154E<br>WAG<br>RIVER              | 69OL<br>WAG<br>RIVER | 69OM<br>WAG<br>RIVER | 69ON<br>WAG<br>RIVER   | 69OO<br>WAG<br>RIVER   |
| 154F<br>WAG<br>RIVER              | 69OP<br>WAG<br>RIVER | 69OQ<br>WAG<br>RIVER | 69OR<br>WAG<br>RIVER   | 69OS<br>WAG<br>RIVER   |
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| 154I<br>WAG<br>RIVER              | 69PB<br>WAG<br>RIVER | 69PC<br>WAG<br>RIVER | 69PD<br>WAG<br>RIVER   | 69PE<br>WAG<br>RIVER   |
| 154J<br>WAG<br>RIVER              | 69PF<br>WAG<br>RIVER | 69PG<br>WAG<br>RIVER | 69PH<br>WAG<br>RIVER   | 69PJ<br>WAG<br>RIVER   |
| 154K<br>WAG<br>RIVER              | 69PK<br>WAG<br>RIVER | 69PL<br>WAG<br>RIVER | 69PM<br>WAG<br>RIVER   | 69PN<br>WAG<br>RIVER   |
| 154L<br>WAG<br>RIVER              | 69PO<br>WAG<br>RIVER | 69PP<br>WAG<br>RIVER | 69PQ<br>WAG<br>RIVER   | 69PR<br>WAG<br>RIVER   |
| 154M<br>WAG<br>RIVER              | 69PS<br>WAG<br>RIVER | 69PT<br>WAG<br>RIVER | 69PU<br>WAG<br>RIVER   | 69PV<br>WAG<br>RIVER   |
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| 154U<br>WAG<br>RIVER              | 69QZ<br>WAG<br>RIVER | 69RA<br>WAG<br>RIVER | 69RB<br>WAG<br>RIVER   | 69RC<br>WAG<br>RIVER   |
| 154V<br>WAG<br>RIVER              | 69RD<br>WAG<br>RIVER | 69RE<br>WAG<br>RIVER | 69RF<br>WAG<br>RIVER   | 69RG<br>WAG<br>RIVER   |
| 154W<br>WAG<br>RIVER              | 69RH<br>WAG<br>RIVER | 69RI<br>WAG<br>RIVER | 69RJ<br>WAG<br>RIVER   | 69RK<br>WAG<br>RIVER   |
| 154X<br>WAG<br>RIVER              | 69RL<br>WAG<br>RIVER | 69RM<br>WAG<br>RIVER | 69RN<br>WAG<br>RIVER   | 69RO<br>WAG<br>RIVER   |
| 154Y<br>WAG<br>RIVER              | 69RP<br>WAG<br>RIVER | 69RQ<br>WAG<br>RIVER | 69RR<br>WAG<br>RIVER   | 69RS<br>WAG<br>RIVER   |
| 154Z<br>WAG<br>RIVER              | 69RT<br>WAG<br>RIVER | 69RU<br>WAG<br>RIVER | 69RV<br>WAG<br>RIVER   | 69RW<br>WAG<br>RIVER   |
| 154A<br>WAG<br>RIVER              | 69RX<br>WAG<br>RIVER | 69RY<br>WAG<br>RIVER | 69RZ<br>WAG<br>RIVER   | 69SA<br>WAG<br>RIVER   |
| 154B<br>WAG<br>RIVER              | 69SB<br>WAG<br>RIVER | 69SC<br>WAG<br>RIVER | 69SD<br>WAG<br>RIVER   | 69SE<br>WAG<br>RIVER   |
| 154C<br>WAG<br>RIVER              | 69SF<br>WAG<br>RIVER | 69SG<br>WAG<br>RIVER | 69SH<br>WAG<br>RIVER   | 69SI<br>WAG<br>RIVER   |
| 154D<br>WAG<br>RIVER              | 69SJ<br>WAG<br>RIVER | 69SK<br>WAG<br>RIVER | 69SL<br>WAG<br>RIVER   | 69SM<br>WAG<br>RIVER   |
| 154E<br>WAG<br>RIVER              | 69SN<br>WAG<br>RIVER | 69SO<br>WAG<br>RIVER | 69SP<br>WAG<br>RIVER   | 69SQ<br>WAG<br>RIVER   |
| 154F<br>WAG<br>RIVER              | 69SR<br>WAG<br>RIVER | 69SS<br>WAG<br>RIVER | 69ST<br>WAG<br>RIVER   | 69SU<br>WAG<br>RIVER   |
| 154G<br>WAG<br>RIVER              | 69SV<br>WAG<br>RIVER | 69SW<br>WAG<br>RIVER | 69SX<br>WAG<br>RIVER   | 69SY<br>WAG<br>RIVER   |
| 154H<br>WAG<br>RIVER              | 69SZ<br>WAG<br>RIVER | 69TA<br>WAG<br>RIVER | 69TB<br>WAG<br>RIVER   | 69TC<br>WAG<br>RIVER   |
| 154I<br>WAG<br>RIVER              | 69TD<br>WAG<br>RIVER | 69TE<br>WAG<br>RIVER | 69TF<br>WAG<br>RIVER   | 69TG<br>WAG<br>RIVER   |
| 154J<br>WAG<br>RIVER              | 69TH<br>WAG<br>RIVER | 69TI<br>WAG<br>RIVER | 69TJ<br>WAG<br>RIVER   | 69TK<br>WAG<br>RIVER   |
| 154K<br>WAG<br>RIVER              | 69TL<br>WAG<br>RIVER | 69TM<br>WAG<br>RIVER | 69TN<br>WAG<br>RIVER   | 69TO<br>WAG<br>RIVER   |
| 154L<br>WAG<br>RIVER              | 69TP<br>WAG<br>RIVER | 69TQ<br>WAG<br>RIVER | 69TR<br>WAG<br>RIVER   | 69TS<br>WAG<br>RIVER   |
| 154M<br>WAG<br>RIVER              | 69TT<br>WAG<br>RIVER | 69TU<br>WAG<br>RIVER | 69TV<br>WAG<br>RIVER   | 69TW<br>WAG<br>RIVER   |
| 154N<br>WAG<br>RIVER              | 69TX<br>WAG<br>RIVER | 69TY<br>WAG<br>RIVER | 69TZ<br>WAG<br>RIVER   | 69UA<br>WAG<br>RIVER   |
| 154O<br>WAG<br>RIVER              | 69UB<br>WAG<br>RIVER | 69UC<br>WAG<br>RIVER | 69UD<br>WAG<br>RIVER   | 69UE<br>WAG<br>RIVER   |
| 154P<br>WAG<br>RIVER              | 69UF<br>WAG<br>RIVER | 69UG<br>WAG<br>RIVER | 69UH<br>WAG<br>RIVER   | 69UI<br>WAG<br>RIVER   |
| 154Q<br>WAG<br>RIVER              | 69UJ<br>WAG<br>RIVER | 69UK<br>WAG<br>RIVER | 69UL<br>WAG<br>RIVER   | 69UM<br>WAG<br>RIVER   |
| 154R<br>WAG<br>RIVER              | 69UN<br>WAG<br>RIVER | 69UO<br>WAG<br>RIVER | 69UP<br>WAG<br>RIVER   | 69UQ<br>WAG<br>RIVER   |
| 154S<br>WAG<br>RIVER              | 69UR<br>WAG<br>RIVER | 69US<br>WAG<br>RIVER | 69UT<br>WAG<br>RIVER   | 69UU<br>WAG<br>RIVER   |
| 154T<br>WAG<br>RIVER              | 69UV<br>WAG<br>RIVER | 69UW<br>WAG<br>RIVER | 69UX<br>WAG<br>RIVER   | 69UY<br>WAG<br>RIVER   |
| 154U<br>WAG<br>RIVER              | 69UZ<br>WAG<br>RIVER | 69VA<br>WAG<br>RIVER | 69VB<br>WAG<br>RIVER   | 69VC<br>WAG<br>RIVER   |
| 154V<br>WAG<br>RIVER              | 69VD<br>WAG<br>RIVER | 69VE<br>WAG<br>RIVER | 69VF<br>WAG<br>RIVER   | 69VG<br>WAG<br>RIVER   |
| 154W<br>WAG<br>RIVER              | 69VH<br>WAG<br>RIVER | 69VI<br>WAG<br>RIVER | 69VJ<br>WAG<br>RIVER   | 69VK<br>WAG<br>RIVER   |
| 154X<br>WAG<br>RIVER              | 69VL<br>WAG<br>RIVER | 69VM<br>WAG<br>RIVER | 69VN<br>WAG<br>RIVER   | 69VO<br>WAG<br>RIVER   |
| 154Y<br>WAG<br>RIVER              | 69VP<br>WAG<br>RIVER | 69VQ<br>WAG<br>RIVER | 69VR<br>WAG<br>RIVER   | 69VS<br>WAG<br>RIVER   |
| 154Z<br>WAG<br>RIVER              | 69VT<br>WAG<br>RIVER | 69VU<br>WAG<br>RIVER | 69VV<br>WAG<br>RIVER   | 69VW<br>WAG<br>RIVER   |
| 154A<br>WAG<br>RIVER              | 69VX<br>WAG<br>RIVER | 69VY<br>WAG<br>RIVER | 69VZ<br>WAG<br>RIVER   | 69WA<br>WAG<br>RIVER   |
| 154B<br>WAG<br>RIVER              | 69WB<br>WAG<br>RIVER | 69WC<br>WAG<br>RIVER | 69WD<br>WAG<br>RIVER   | 69WE<br>WAG<br>RIVER   |
| 154C<br>WAG<br>RIVER              | 69WF<br>WAG<br>RIVER | 69WG<br>WAG<br>RIVER | 69WH<br>WAG<br>RIVER   | 69WI<br>WAG<br>RIVER   |
| 154D<br>WAG<br>RIVER              | 69WJ<br>WAG<br>RIVER | 69WK<br>WAG<br>RIVER | 69WL<br>WAG<br>RIVER   | 69WM<br>WAG<br>RIVER   |
| 154E<br>WAG<br>RIVER              | 69WN<br>WAG<br>RIVER | 69WO<br>WAG<br>RIVER |                        |                        |



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 SiroSM 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 Siro-derived BMU "vectors" were analyzed using K-means to produce 20 clusters. 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. This normalization process may make some samples appear more anomalous than others. 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 high values in this low valued group anomalous.

### Data Analysis

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.

### Geochemistry Data

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### Topographic Data

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

**Data Sources**

|                                                                                 |                                                                                                                                                     |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Geoscience BC<br><a href="http://www.geosciencebc.com">www.geosciencebc.com</a> | Ministry of Energy, Mines and Petroleum Resources<br><a href="http://www.empr.gov.bc.ca/mining/geoscience">www.empr.gov.bc.ca/mining/geoscience</a> |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|

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MAP 2009-14-06  
GEOCHEMISTRY - CSIRO SOM ANALYSIS  
Cluster-Normalized Gold 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

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

Mean magnetic declination 2009, 19°26' E, decreasing 16.6' annually. Readings vary from 17°42' E in the southeast corner to 20°47' E in the northwest corner of the map.

September 16, 2009

**Citation:**  
Geoscience BC (2009); QUEST Project - Geochemistry - CSIRO SOM Analysis: Cluster Normalized Gold Anomalism; Geoscience BC, Map 2009-14-06, geosol 1 - 620/010.