



Ministry of Energy and Mines
Energy and Minerals Division
Geological Survey Branch



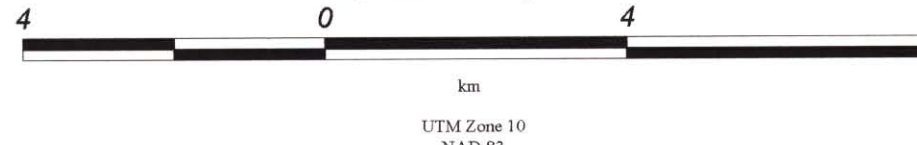
B.C. Geological Survey Branch
Open File 2000-25
(Sheet 1 of 9)

REGIONAL GEOCHEMICAL COMPILATION: Tezzeron-Pinchi Fault Zone Area

(NTS 93K/09, 10, 15, 16)

By Stephen Cook, Wayne Jackaman, Alain Plouffe,
Joanne Nelson and Michelle Douville

Scale 1:100,000



Mercury

Lake Sediment (ppb) CV-AAS

Concentration	Percentiles
331 - 4150	> 95th
271 - 330	90th - 95th
171 - 270	70th - 90th
131 - 170	50th - 70th
10 - 130	0 - 50th

413 Sites

Stream Sediment (ppb) CV-AAS

Concentration	Percentiles
211 - 240	> 95th
151 - 210	90th - 95th
121 - 150	70th - 90th
101 - 120	50th - 70th
40 - 100	0 - 50th

45 Sites

Till (ppb) CV-AAS

Concentration	Percentiles
824 - 11500	> 95th
601 - 823	90th - 95th
314 - 600	70th - 90th
261 - 313	50th - 70th
30 - 260	0 - 50th

135 Sites

MINFILE Occurrences (Metallic)

- Showing
- Prospect
- Developed Prospect
- ✕ Past Producer

Base Information

- mJT Geological Units
- Road (gravel)
- Rail Road
- River
- Swamp
- Community
- Ice Flow Direction

SOURCES OF INFORMATION

Lake Sediment: Cook *et al.* (1997)
Till: Plouffe (1995)
Stream Sediment: Nelson *et al.* (1991)
Ice Flow: Plouffe (1994)
Cartographic Presentation: M. Douville

REFERENCES

Bellefontaine, K.A., Legun, A., Massey, N., and Desjardins, P. (1995): Digital Geological Compilation of Northeast British Columbia - Southern Half (NTS 83D, E, 93F, G, H, I, J, K, N, O, P). B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1995-24.

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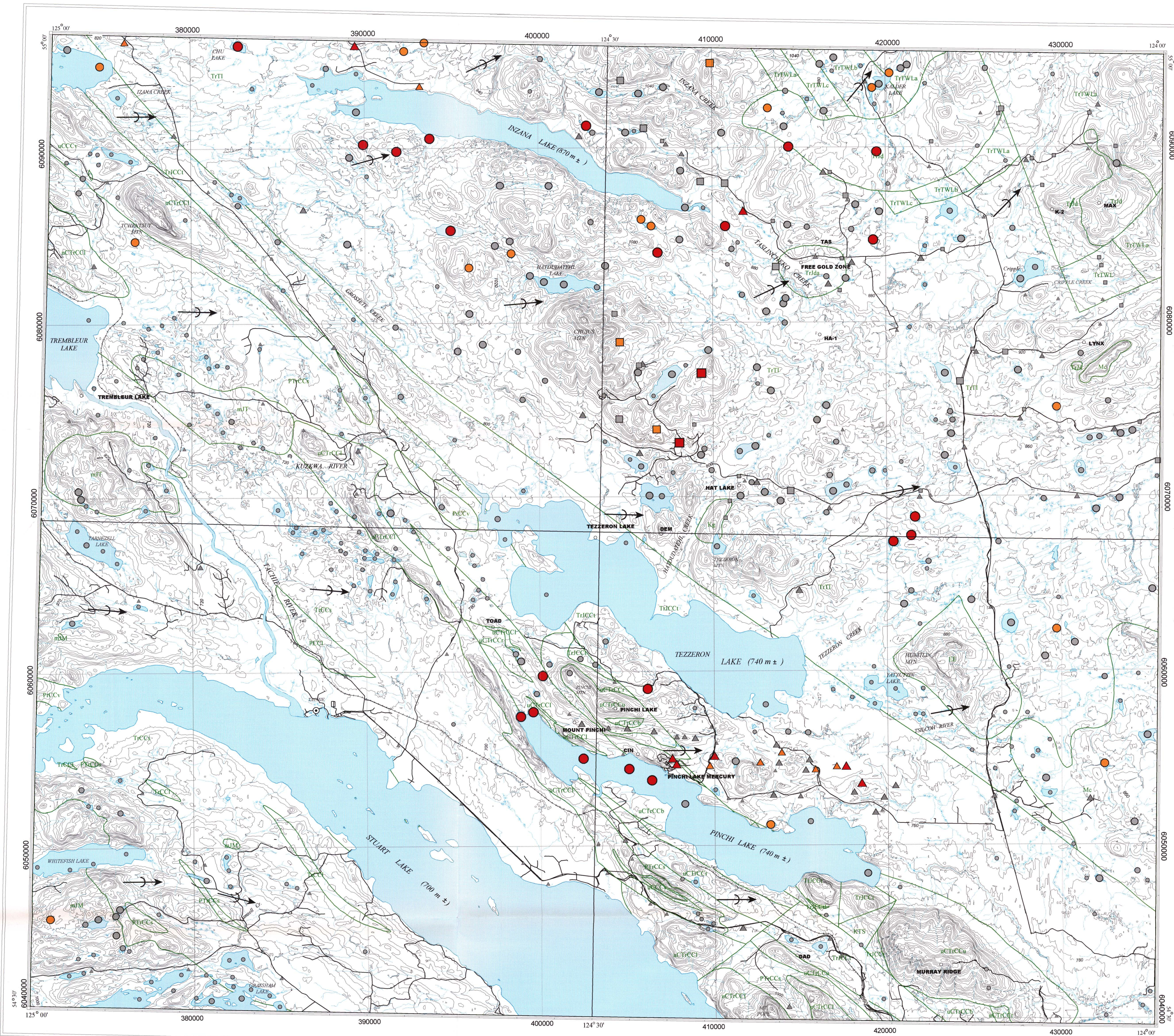
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SUMMARY TABLE OF SAMPLE PREPARATION AND ANALYTICAL METHODS

	Sample Preparation and Size Fraction Used	Sample Digestion and/or Analytical Method
Lake Sediment	entire sample disaggregated in ceramic ring mill; screened through <177 micron (80 mesh) sieve	Au, As, Ba, Sb: instrumental neutron activation analysis (INAA) Hg: aqua regia digestion/cold vapour-atomic absorption spectroscopy (CV-AAS) Cu, Zn, Mo, Ni: aqua regia digestion/atomic absorption spectroscopy (AAS)
Stream Sediment	sample screened to < 177 microns (<80 mesh)	Au: fire assay/atomic absorption spectrometry (FA-AAS) Hg: aqua regia digestion/cold vapour-atomic absorption spectroscopy (CV-AAS) Other elements: aqua regia digestion/atomic absorption spectroscopy (AAS)
Till	sample screened to < 63 micron (<250 mesh) silt & clay-sized fraction; separation of < 2 micron clay-sized fraction by centrifuge for Hg analysis	Au, As, Ba, Sb: instrumental neutron activation analysis (INAA) Cu, Zn, Mo, Ni: aqua regia/inductively-coupled plasma-emission spectroscopy (ICP-AES) Hg: aqua regia digestion/cold vapour-atomic absorption spectroscopy (CV-AAS)

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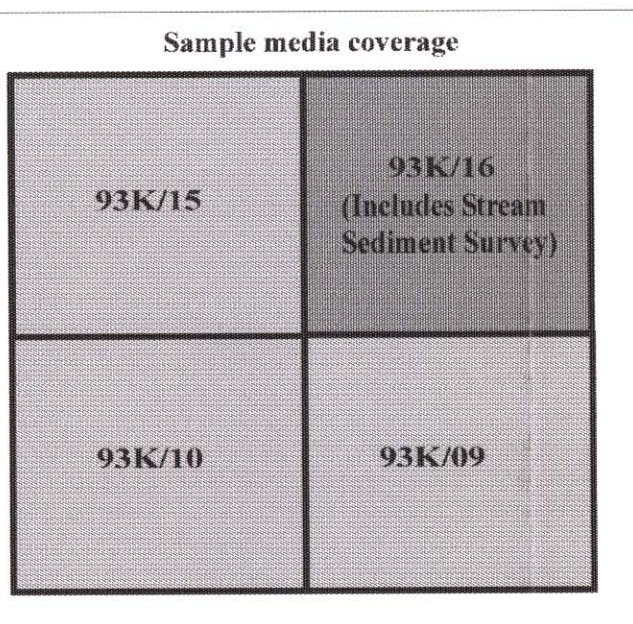
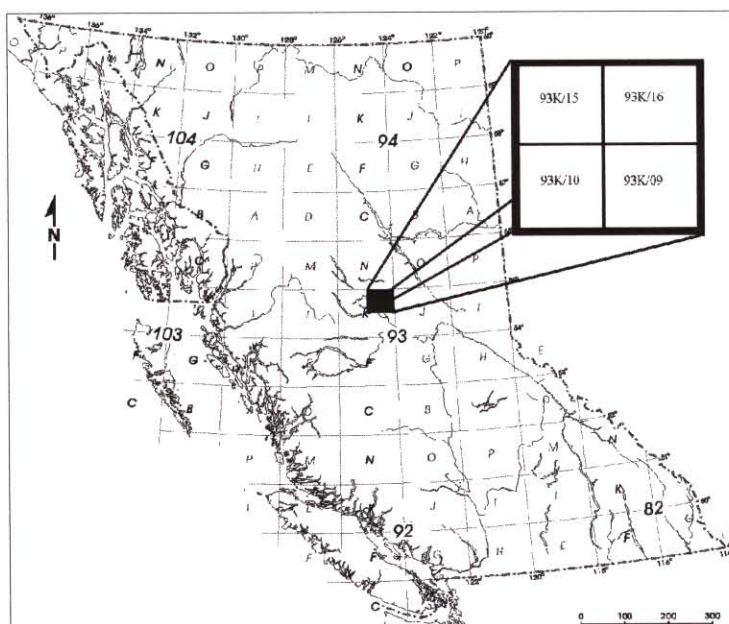
NATMAP
CARTNAT

Canada's National Geoscience Mapping Program
Le Programme national de cartographie géoscientifique du Canada



CONTOUR INTERVAL 20 METRES
Elevation in Metres above Mean Sea Level
North American Datum 1983
Transverse Mercator Projection

CAUTION: This map has been plotted using a HP 650 plotter.
The file used is not waterproof and will also fade if exposed to bright light.





Ministry of Energy and Mines
Geological Survey Branch

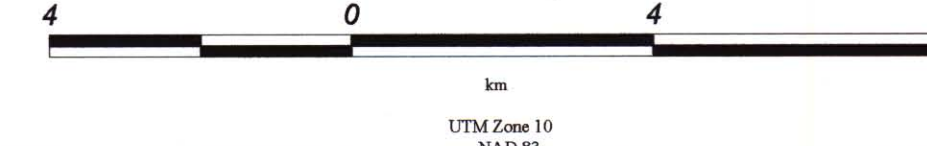
B.C. Geological Survey Branch
Open File 2000-25
(Sheet 2 of 9)

REGIONAL GEOCHEMICAL COMPILATION: Tezzeron-Pinchi Fault Zone Area

(NTS 93K/09, 10, 15, 16)

By Stephen Cook, Wayne Jackaman, Alain Plouffe,
Joanne Nelson and Michelle Douville

Scale 1:100,000



Copper

Lake Sediment (ppm) AAS

Concentration	Percentiles
100 - 250	> 95th
89 - 99	90th - 95th
65 - 88	70th - 90th
51 - 64	50th - 70th
5 - 50	0 - 50th

413 Sites

Lake Water (ppb) ICP-MS

Concentration	Percentiles
4.009 - 12.223	> 95th
3.047 - 4.008	90th - 95th
1.822 - 3.046	70th - 90th
1.337 - 1.821	50th - 70th
0.413 - 1.336	0 - 50th

217 Sites

Stream Sediment (ppm) AAS

Concentration	Percentiles
81 - 126	> 95th
75 - 80	90th - 95th
61 - 74	70th - 90th
51 - 60	50th - 70th
24 - 50	0 - 50th

48 Sites

Till (ppm) ICP-AES

Concentration	Percentiles
97 - 224	> 95th
92 - 96	90th - 95th
67 - 91	70th - 90th
55 - 66	50th - 70th
18 - 54	0 - 50th

135 Sites

MINFILE Occurrences (Metallic)

- Showing
- Prospect
- Developed Prospect
- Past Producer

Base Information

- Geological Units
- Road (gravel)
- Rail Road
- River
- Swamp
- Community
- Ice Flow Direction

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Lake Water	250 ml surface water sample filtered to 0.45 microns; acidified to approx. pH=2 with concentrated nitric acid	inductively-coupled plasma-mass spectrometry (ICP-MS); Hg not determined
Stream Sediment	sample screened to <177 microns (-80 mesh)	Au: fire assay/atomic absorption spectrometry (FA-AAS) Hg: aqua regia digestion/cold vapour-atomic absorption spectroscopy (CV-AAS) Other elements: aqua regia digestion/atomic absorption spectroscopy (AAS)
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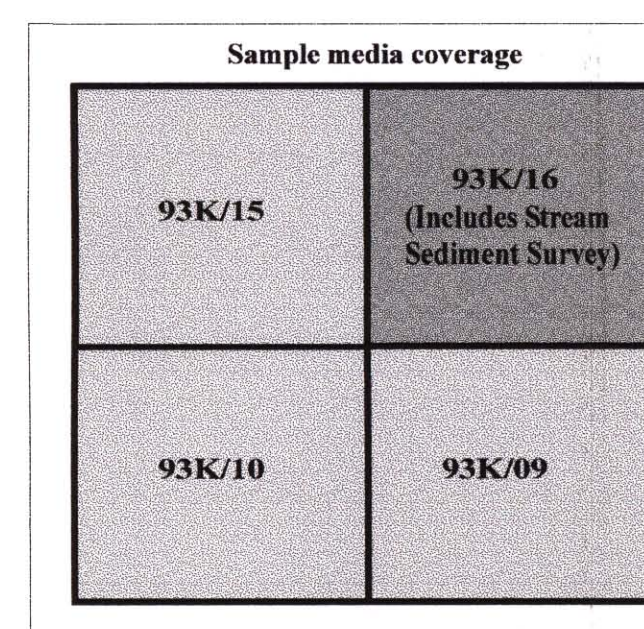
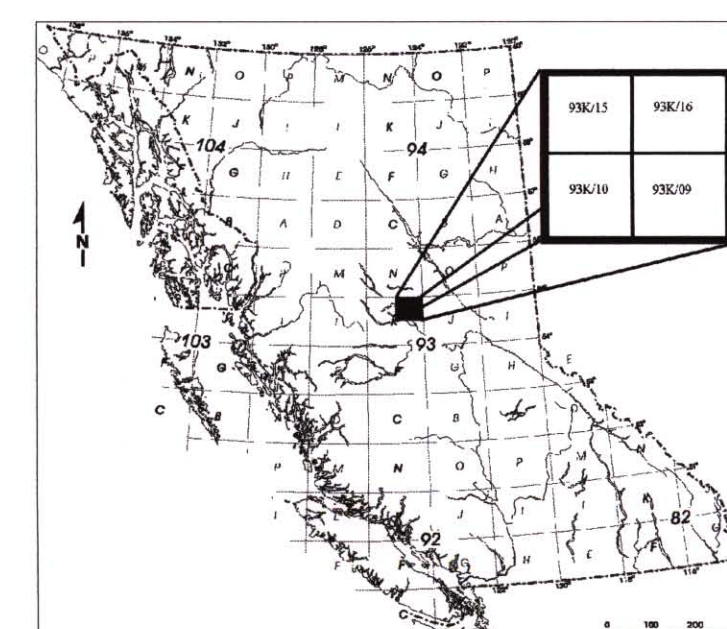
NATMAP
CARTNAT

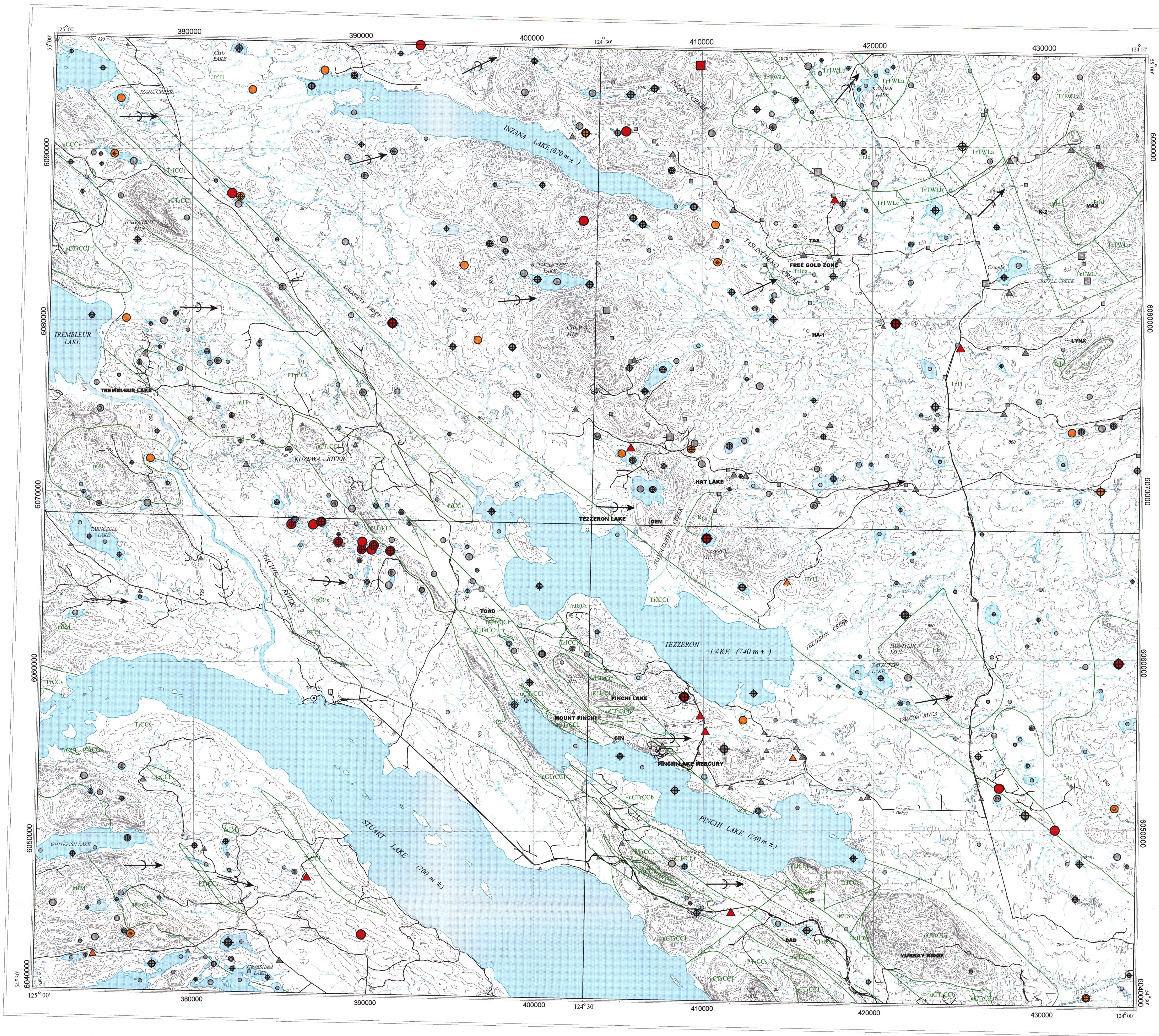
Canada's National Geoscientific Mapping Program
Le Programme national de cartographie géoscientifique du Canada



CONTOUR INTERVAL 20 METRES
Elevation in Metres above Mean Sea Level
North American Datum 1983
Transverse Mercator Projection

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BRITISH COLUMBIA
Ministry of Energy and Mines
Energy and Minerals Division
Geological Survey Branch



B.C. Geological Survey Branch
Open File 2000-25
(Sheet 3 of 9)

**REGIONAL GEOCHEMICAL COMPILATION:
Tezzeron-Pinchi Fault Zone Area**
(NTS 93K/09, 10, 15, 16)

By Stephen Cook, Wayne Jackaman, Alain Plouffe,
Joanne Nelson and Michelle Douville

Scale 1:100,000

4040

0

4

8

km

UTM Zone 10
NAD 83

Molybdenum

Lake Sediment (ppm)		Lake Water (ppb)	
AAS		ICP-MS	
Concentration	Percentiles	Concentration	Percentiles
17 - 65	● > 95th	0.95 - 3.500	⊕ > 95th
12 - 16	● 90th - 95th	0.73 - 0.94	⊕ 90th - 95th
7 - 11	● 70th - 90th	0.43 - 0.72	⊕ 70th - 90th
5 - 6	● 50th - 70th	0.28 - 0.42	⊕ 50th - 70th
2 - 4	● 0 - 50th	0.02 - 0.27	⊕ 0 - 50th
413 Sites		217 Sites	

Stream Sediment (ppm)		Till (ppm)	
AAS		ICP-AES	
Concentration	Percentiles	Concentration	Percentiles
3 - 5	■ > 95th	7 - 8	▲ > 95th
-	■ 90th - 95th	6	▲ 90th - 95th
2	■ 70 - 95th	3 - 5	▲ 70th - 90th
-	■ 50th - 70th	2	▲ 50th - 70th
1	■ 0 - 70th	0.5 - 1	▲ 0 - 50th
48 Sites		135 Sites	

MINFILE Occurrences (Metallic)

- Showing
- Prospect
- Developed Prospect
- ✕ Past Producer

Base Information

- ⬢ Geological Units
- Road (gravel)
- Rail Road
- River
- Swamp
- Community
- Ice Flow Direction

SOURCES OF INFORMATION

Lake Water: Cook *et al.* (1999)
Lake Sediment: Cook *et al.* (1997)
Till: Plouffe (1995)
Stream Sediment: Nelson *et al.* (1991)
Ice Flow: Plouffe (1994)
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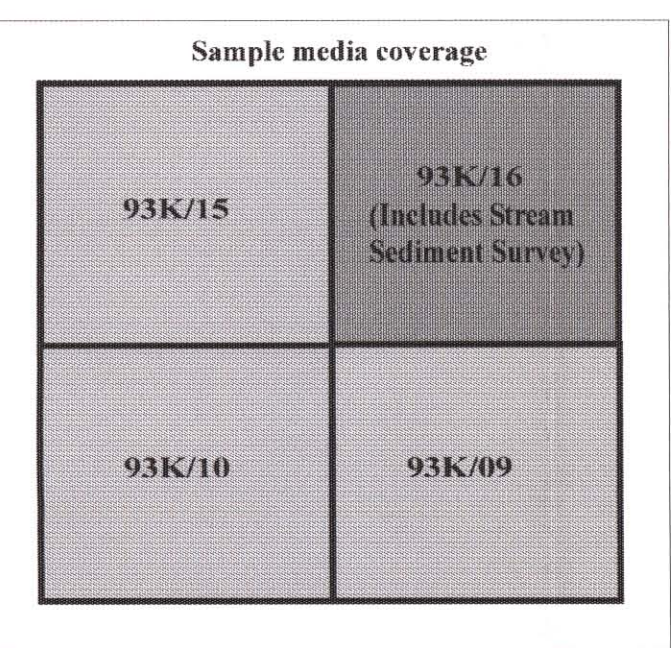
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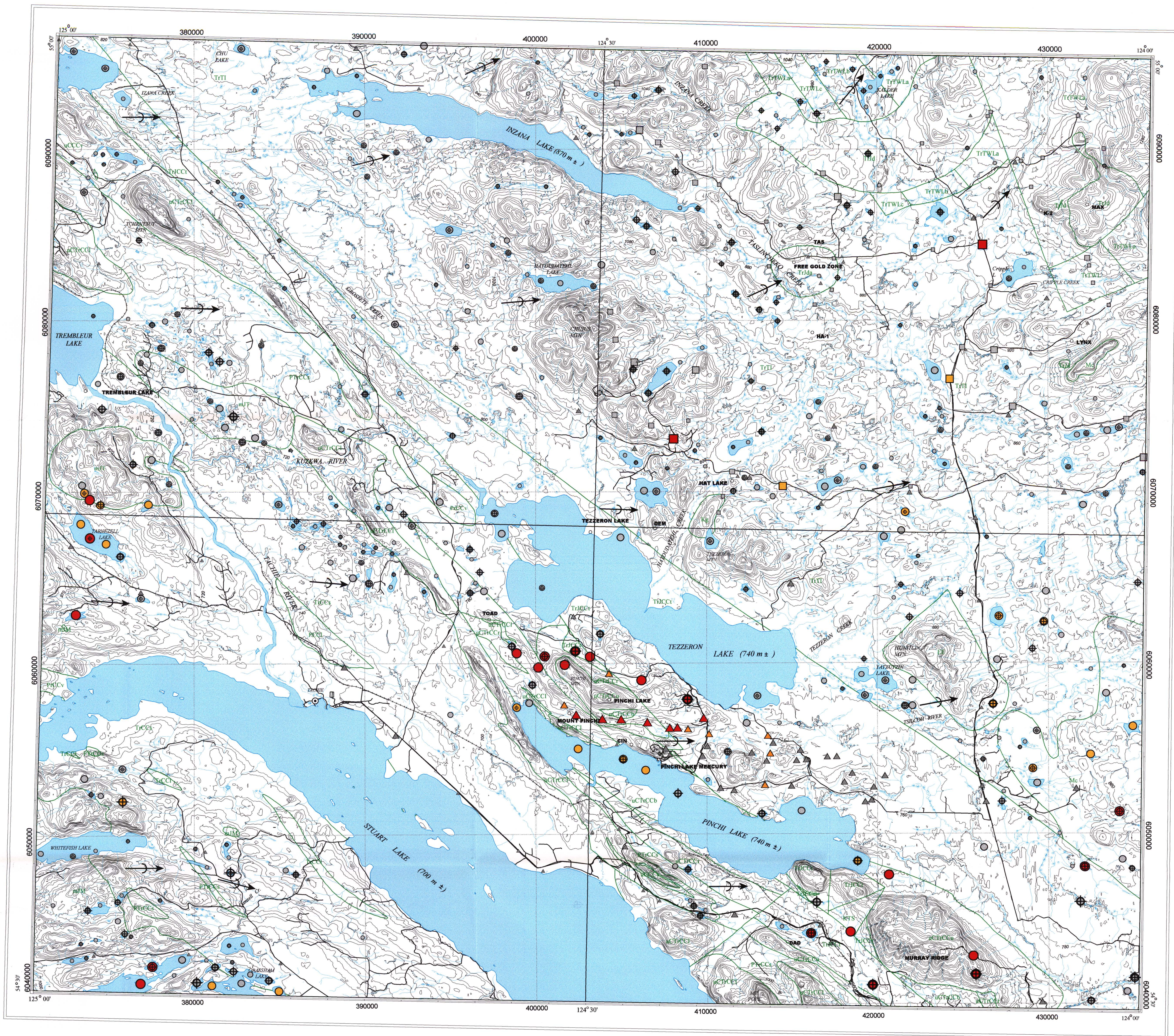
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(NTS 93K/09, 10, 15, 16)

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Scale 1:100,000

4 0 4 8
km
UTM Zone 10
NAD 83

Nickel

Lake Sediment (ppm) AAS		Lake Water (ppb) ICP-MS	
Concentration	Percentiles	Concentration	Percentiles
99 - 650	● > 95th	5.053 - 104.504	⬢ > 95th
72 - 98	● 90th - 95th	4.137 - 5.052	⬢ 90th - 95th
46 - 71	● 70th - 90th	2.583 - 4.136	⬢ 70th - 90th
36 - 45	● 50th - 70th	1.753 - 2.582	⬢ 50th - 70th
2 - 35	● 0 - 50th	0.002 - 1.752	⬢ 0 - 50th
413 Sites		217 Sites	

Stream Sediment (ppm) AAS		Till (ppm) ICP-AES	
Concentration	Percentiles	Concentration	Percentiles
49 - 76	■ > 95th	350 - 881	▲ > 95th
47 - 48	■ 90th - 95th	173 - 349	▲ 90th - 95th
41 - 46	■ 70th - 90th	91 - 172	▲ 70th - 90th
33 - 40	■ 50th - 70th	63 - 90	▲ 50th - 70th
20 - 32	■ 0 - 50th	26 - 62	▲ 0 - 50th
48 Sites		135 Sites	

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- Showing
- Prospect
- Developed Prospect
- ✱ Past Producer

Base Information

- Geological Units
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- Rail Road
- River
- Swamp
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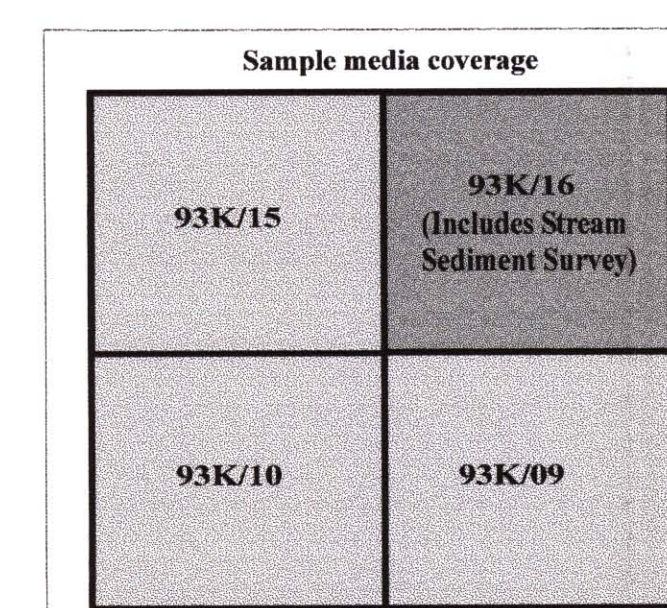
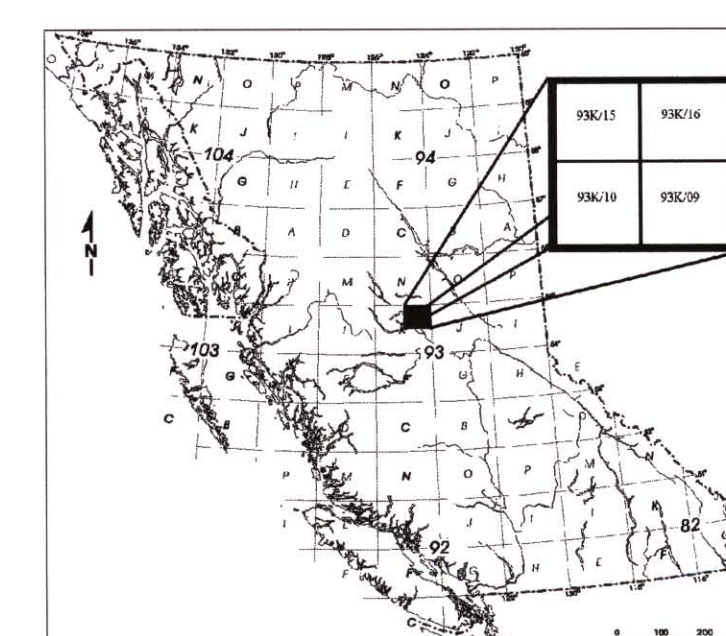
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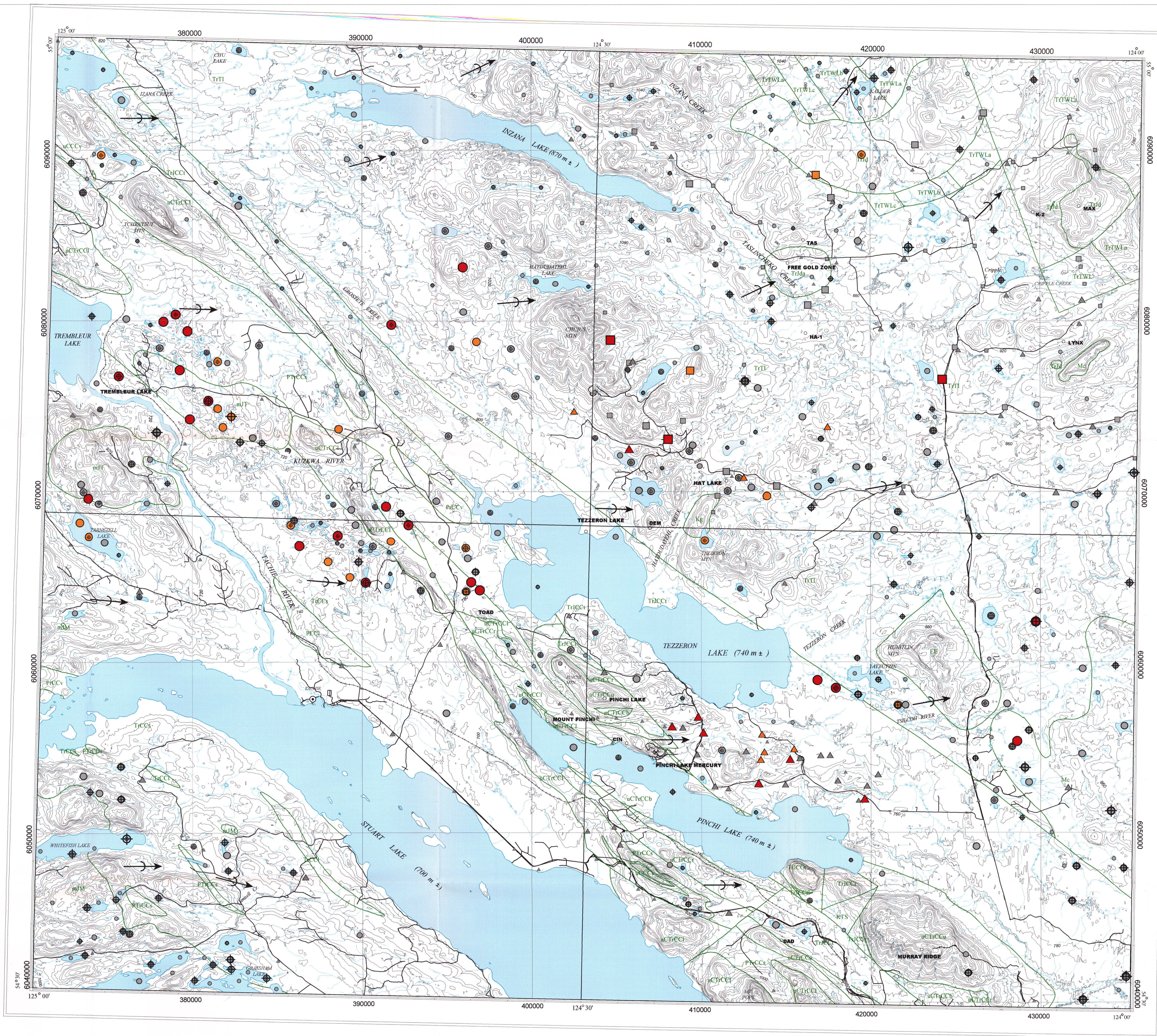
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Scale 1:100,000

4 0 4 8
km
UTM Zone 10
NAD 83

Zinc

Lake Sediment (ppm) AAS				Lake Water (ppb) ICP-MS			
Concentration	Percentiles			Concentration	Percentiles		
266 - 2600	●	> 95th		10.366 - 18.488	⊕	> 95th	
207 - 265	●	90th - 95th		8.453 - 10.365	⊕	90th - 95th	
155 - 206	●	70th - 90th		4.692 - 8.452	⊕	70th - 90th	
132 - 154	●	50th - 70th		2.705 - 4.691	⊕	50th - 70th	
18 - 131	●	0 - 50th		0.002 - 2.704	⊕	0 - 50th	
413 Sites				217 Sites			

Stream Sediment (ppm) AAS				Till (ppm) ICP-AES			
Concentration	Percentiles			Concentration	Percentiles		
111 - 136	■	> 95th		162 - 238	▲	> 95th	
105 - 110	■	90th - 95th		145 - 161	▲	90th - 95th	
87 - 104	■	70th - 90th		117 - 144	▲	70th - 90th	
81 - 86	■	50th - 70th		103 - 116	▲	50th - 70th	
44 - 80	■	0 - 50th		44 - 102	▲	0 - 50th	
48 Sites				135 Sites			

MINFILE Occurrences (Metallic)

- Showing
- Prospect
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- ✕ Past Producer

Base Information

- Geological Units
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Cartographic Presentation: M. Douville

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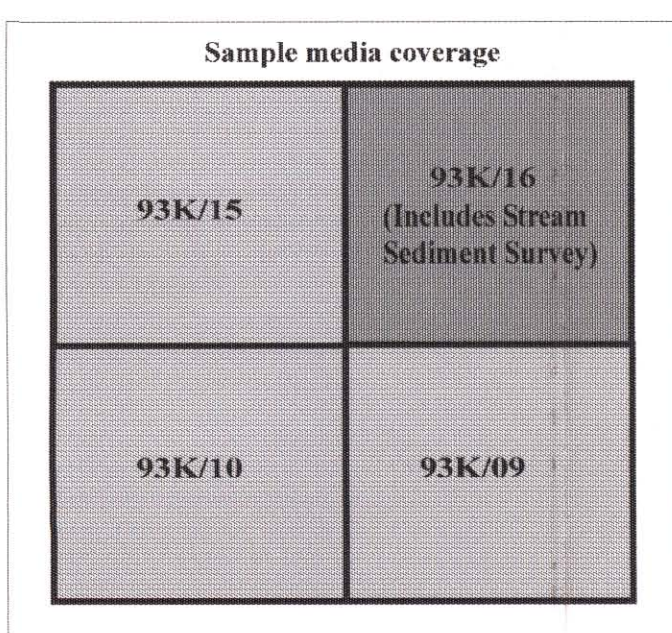
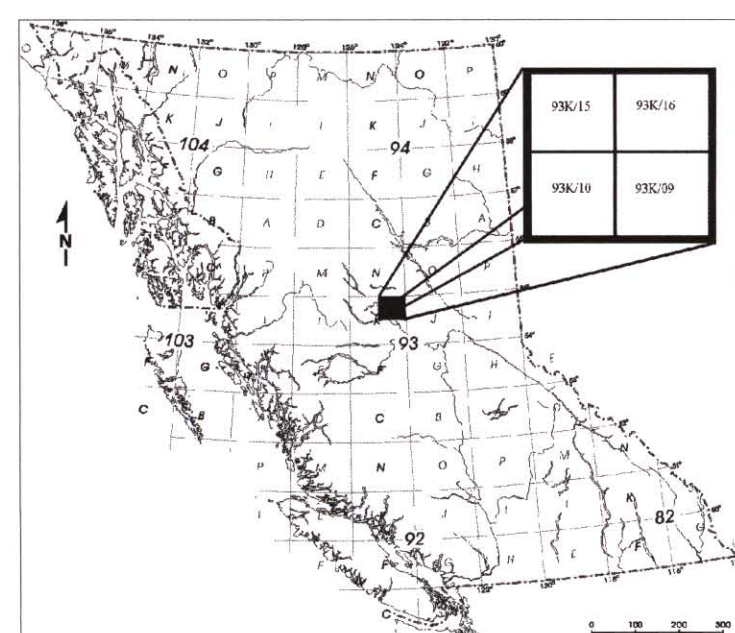
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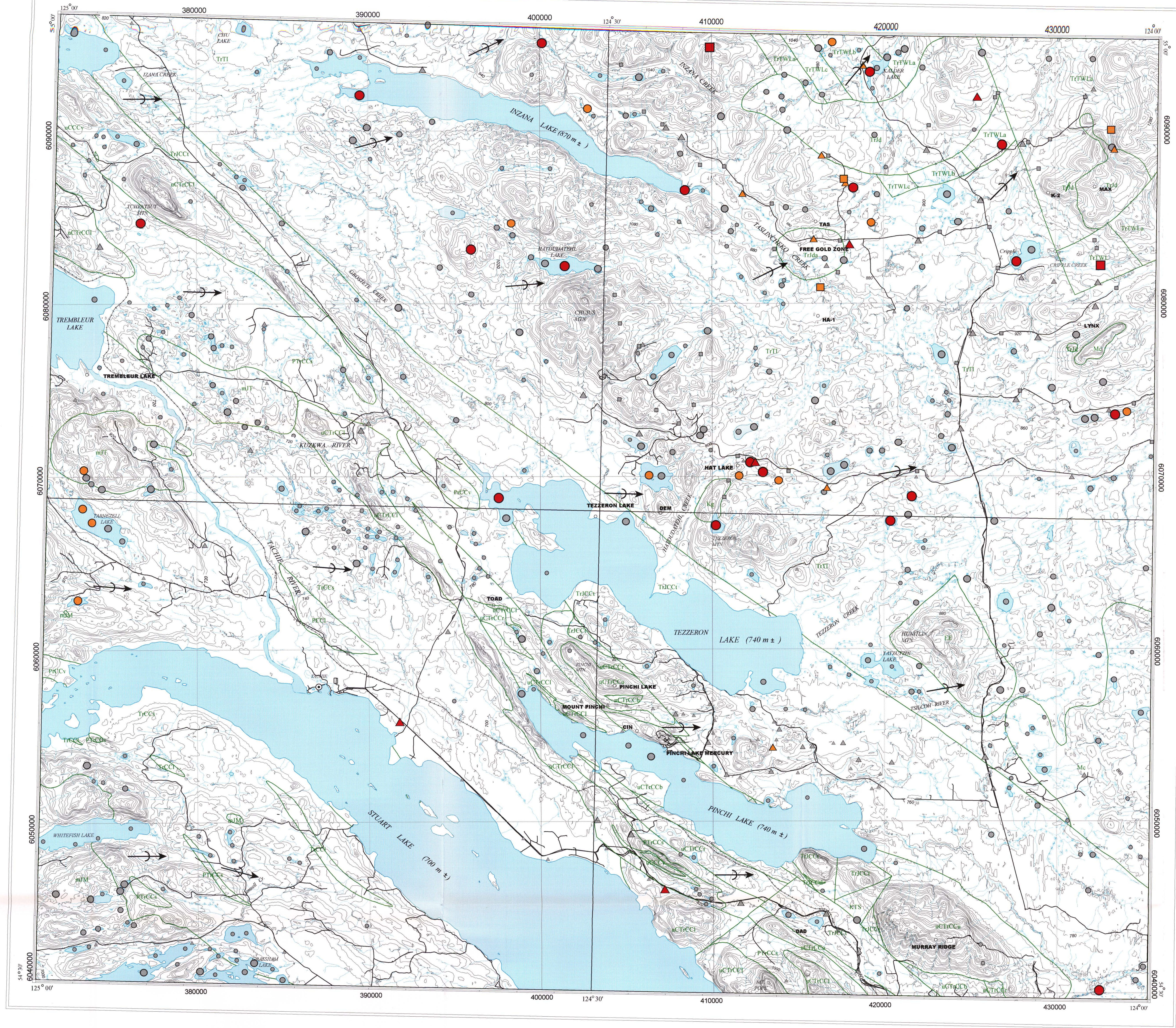
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SUMMARY TABLE OF SAMPLE PREPARATION AND ANALYTICAL METHODS

	Sample Preparation and Size Fraction Used	Sample Digestion and/or Analytical Method
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		Hg: aqua regia digestion/cold vapour-atomic absorption spectroscopy (CV-AAS)
		Cu, Zn, Mo, Ni: aqua regia digestion/atomic absorption spectroscopy (AAS)
Lake Water	250 ml surface water sample filtered to 0.45 microns; acidified to approx. pH=2 with concentrated nitric acid	inductively-coupled plasma-mass spectrometry (ICP-MS); Hg not determined
Stream Sediment	sample screened to < 177 microns (-80 mesh)	Au: fire assay/atomic absorption spectrometry (FA-AAS) Hg: aqua regia digestion/cold vapour-atomic absorption spectroscopy (CV-AAS) Other elements: aqua regia digestion/atomic absorption spectroscopy (AAS)
Till	sample screened to < 63 micron (-250 mesh) silt & clay-sized fraction; separation of < 2 micron clay-sized fraction by centrifuge for Hg analysis	Au, As, Ba, Sb: instrumental neutron activation analysis (INAA) Cu, Zn, Mo, Ni: aqua regia/inductively-coupled plasma-emission spectroscopy (ICP-AES) Hg: aqua regia digestion/cold vapour-atomic absorption spectroscopy (CV-AAS)

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BRITISH COLUMBIA
Ministry of Energy and Mines
Energy and Minerals Division
Geological Survey Branch



B.C. Geological Survey Branch
Open File 2000-25
(Sheet 6 of 9)

**REGIONAL GEOCHEMICAL COMPILATION:
Tezzeron-Pinchi Fault Zone Area**

(NTS 93K/09, 10, 15, 16)

By Stephen Cook, Wayne Jackaman, Alain Plouffe,
Joanne Nelson and Michelle Douville

4000000

0

4000000

8

km

UTM Zone 10
NAD 83

Gold

Lake Sediment (ppb) INAA		Stream Sediment (ppb) FA - AAS	
Concentration	Percentiles	Concentration	Percentiles
8 - 17	● > 95th	21 - 115	■ > 95th
7	● 90th - 95th	6 - 20	■ 90th - 95th
5 - 6	● 70th - 90th	-	■ -
3 - 4	● 50th - 70th	≤ 5	■ 0 - 90th
1 - 2	● 0 - 50th		
413 Sites		48 Sites	

Till (ppm) INAA	
Concentration	Percentiles
19 - 32	▲ > 95th
13 - 18	▲ 90th - 95th
8 - 12	▲ 70th - 90th
6 - 7	▲ 50th - 70th
1 - 5	▲ 0 - 50th
136 Sites	

MINFILE Occurrences (Metallic)

- Showing
- Prospect
- Developed Prospect
- ✕ Past Producer

Base Information

- mJ Geological Units
- Road (gravel)
- Rail Road
- River
- Swamp
- Community
- Ice Flow Direction

SOURCES OF INFORMATION

Lake Sediment: Cook *et al.* (1997)
Till: Plouffe (1995)
Stream Sediment: Nelson *et al.* (1991)
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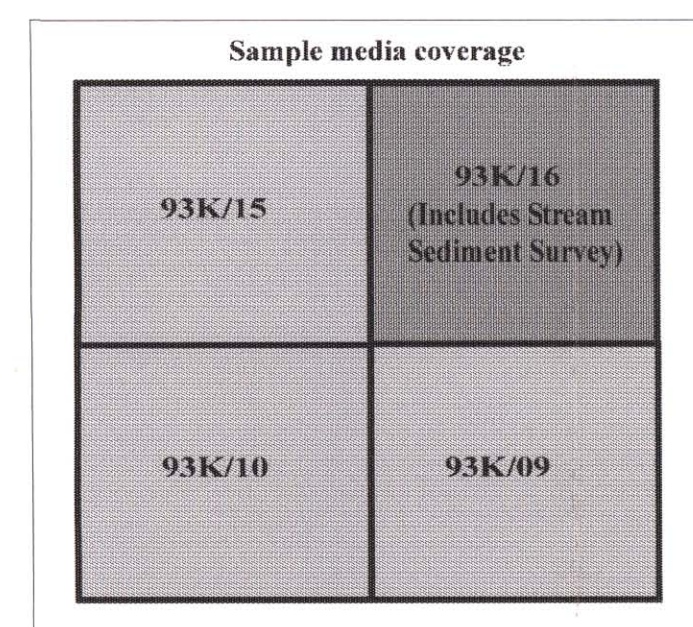
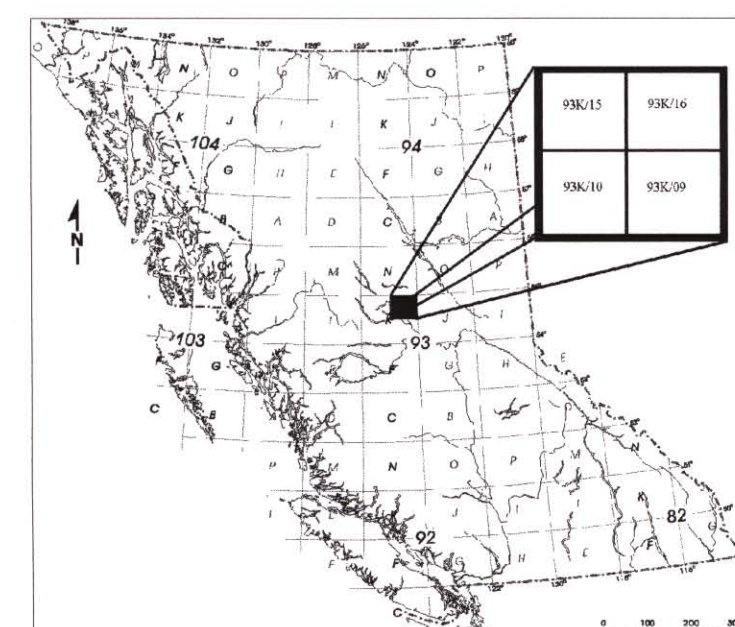
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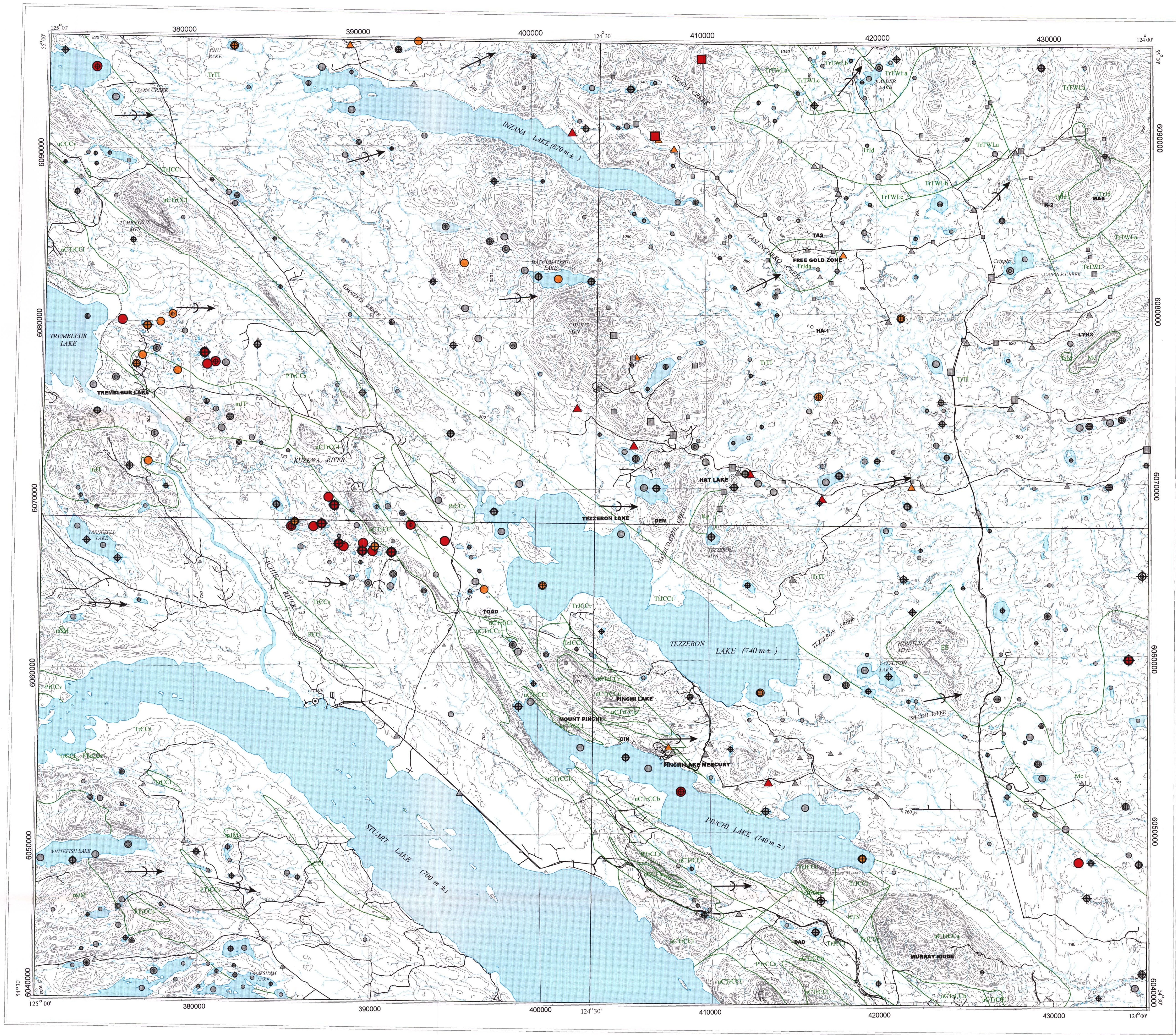
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Ministry of Energy and Mines
Energy and Minerals Division
Geological Survey Branch

B.C. Geological Survey Branch
Open File 2000-25
(Sheet 7 of 9)

**REGIONAL GEOCHEMICAL COMPILATION:
Tezzeron-Pinchi Fault Zone Area**

(NTS 93K/09, 10, 15, 16)

By Stephen Cook, Wayne Jackaman, Alain Plouffe,
Joanne Nelson and Michelle Douville

Scale 1:100,000

Arsenic

Lake Sediment (ppm)		Lake Water (ppb)	
INAA		ICP-MS	
Concentration	Percentiles	Concentration	Percentiles
26.1 - 316	● > 95th	0.88 - 1.91	⊕ > 95th
16.1 - 26.0	● 90th - 95th	0.69 - 0.87	⊕ 90th - 95th
8.3 - 16.0	● 70th - 90th	0.39 - 0.68	⊕ 70th - 90th
6.0 - 8.2	● 50th - 70th	0.31 - 0.38	⊕ 50th - 70th
0.9 - 5.9	● 0 - 50th	0.02 - 0.30	⊕ 0 - 50th
413 Sites		217 Sites	

Stream Sediment (ppm)		Till (ppm)	
AAS		INAA	
Concentration	Percentiles	Concentration	Percentiles
9 - 22	■ > 95th	21.1 - 38.0	▲ > 95th
-	■ 90th - 95th	18.1 - 21.0	▲ 90th - 95th
7 - 8	■ 70th - 95th	15.1 - 18.0	▲ 70th - 90th
6	■ 50th - 70th	13.1 - 15.0	▲ 50th - 70th
1 - 5	■ 0 - 50th	5.5 - 13.0	▲ 0 - 50th
48 Sites		136 Sites	

MINFILE Occurrences (Metallic)

- Showing
- Prospect
- Developed Prospect
- ✕ Past Producer

Base Information

- Geological Units
- Road (gravel)
- Rail Road
- River
- Swamp
- Community
- Ice Flow Direction

SOURCES OF INFORMATION

Lake Water: Cook *et al.* (1999)
Lake Sediment: Cook *et al.* (1997)
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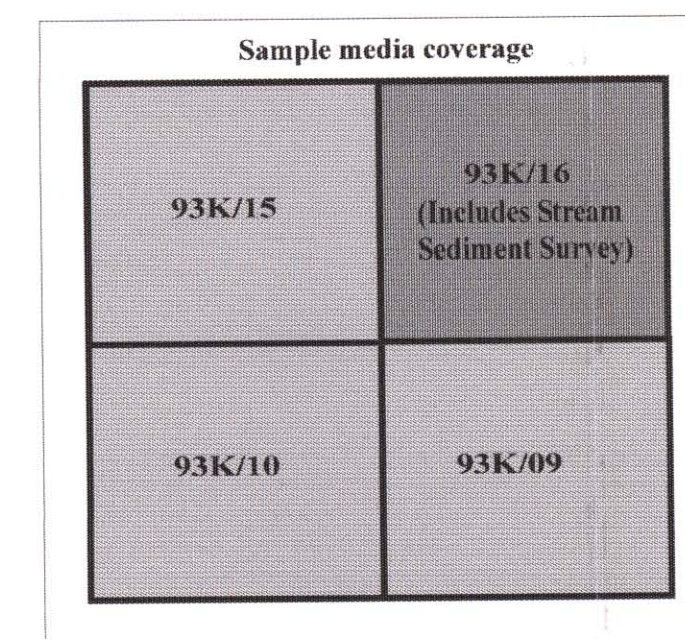
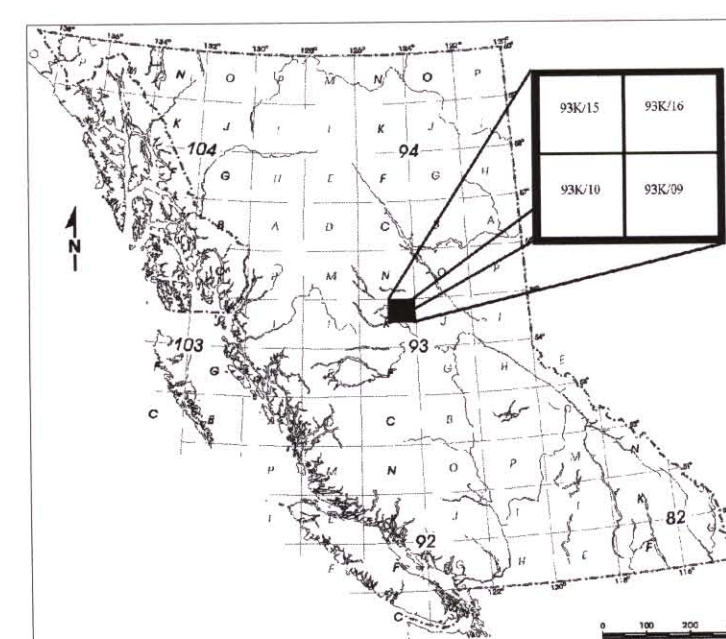
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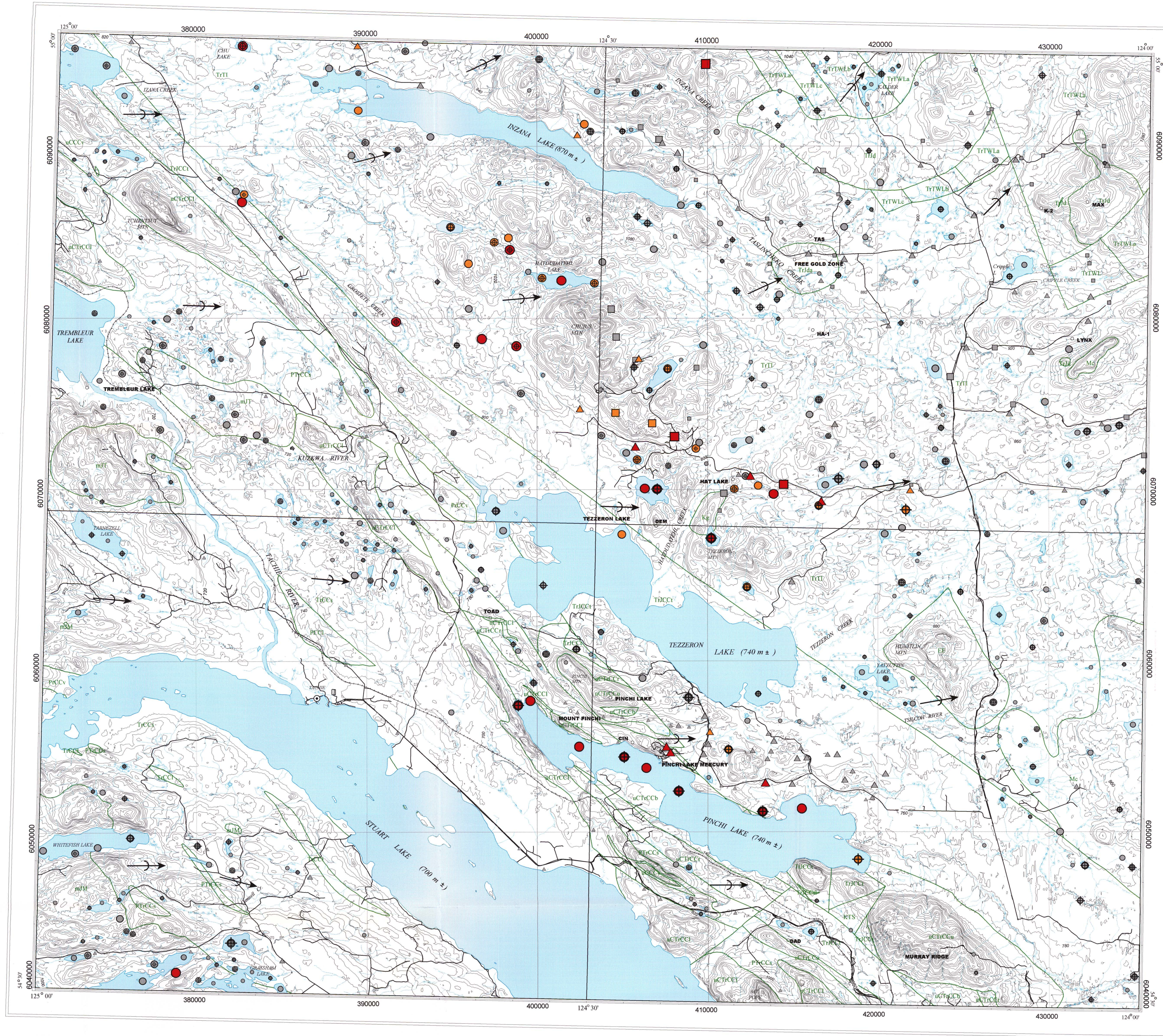
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BRITISH COLUMBIA
Ministry of Energy and Mines
Energy and Minerals Division
Geological Survey Branch



B.C. Geological Survey Branch
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REGIONAL GEOCHEMICAL COMPILATION:
Tezzeron-Pinchi Fault Zone Area
(NTS 93K/09, 10, 15, 16)
By Stephen Cook, Wayne Jackaman, Alain Plouffe,
Joanne Nelson and Michelle Douville
Scale 1:100,000
UTM Zone 18
NAD83

Antimony

Lake Sediment (ppm)		Lake Water (ppb)	
INAA		ICP-MS	
Concentration	Percentiles	Concentration	Percentiles
2.5 - 8.4	● > 95th	0.09 - 1.29	⊕ > 95th
1.8 - 2.4	● 90th - 95th	0.08	⊕ 90th - 95th
1.2 - 1.7	● 70th - 90th	0.06 - 0.07	⊕ 70th - 90th
0.9 - 1.1	● 50th - 70th	0.04 - 0.05	⊕ 50th - 70th
0.1 - 0.8	● 0 - 50th	0.02 - 0.03	⊕ 0 - 50th
413 Sites		217 Sites	

Stream Sediment (ppm)		Till (ppm)	
AAS		INAA	
Concentration	Percentiles	Concentration	Percentiles
1.1 - 1.8	■ > 95th	3.9 - 9.7	▲ > 95th
0.9 - 1.0	■ 90th - 95th	3.0 - 3.8	▲ 90th - 95th
0.7 - 0.8	■ 70th - 90th	2.3 - 2.9	▲ 70th - 90th
0.5 - 0.6	■ 50th - 70th	2.0 - 2.2	▲ 50th - 70th
0.2 - 0.4	■ 0 - 50th	0.8 - 1.9	▲ 0 - 50th
45 Sites		136 Sites	

MINFILE Occurrences (Metallic)

- Showing
- Prospect
- Developed Prospect
- ✕ Past Producer

Base Information

- ⬢ mT Geological Units
- Road (gravel)
- Rail Road
- River
- Swamp
- ⊙ Community
- Ice Flow Direction

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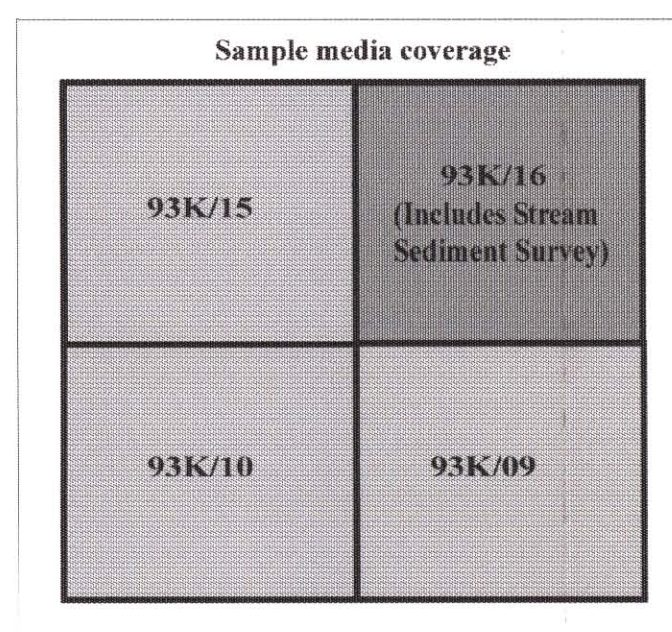
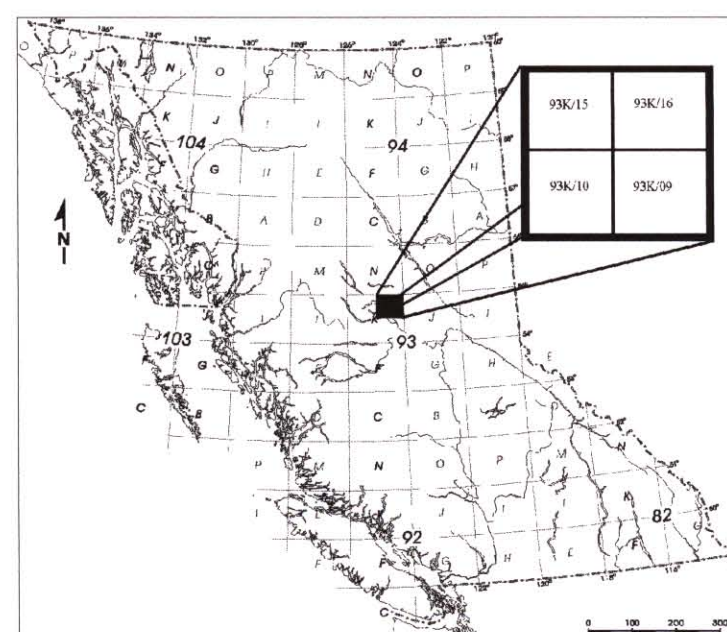
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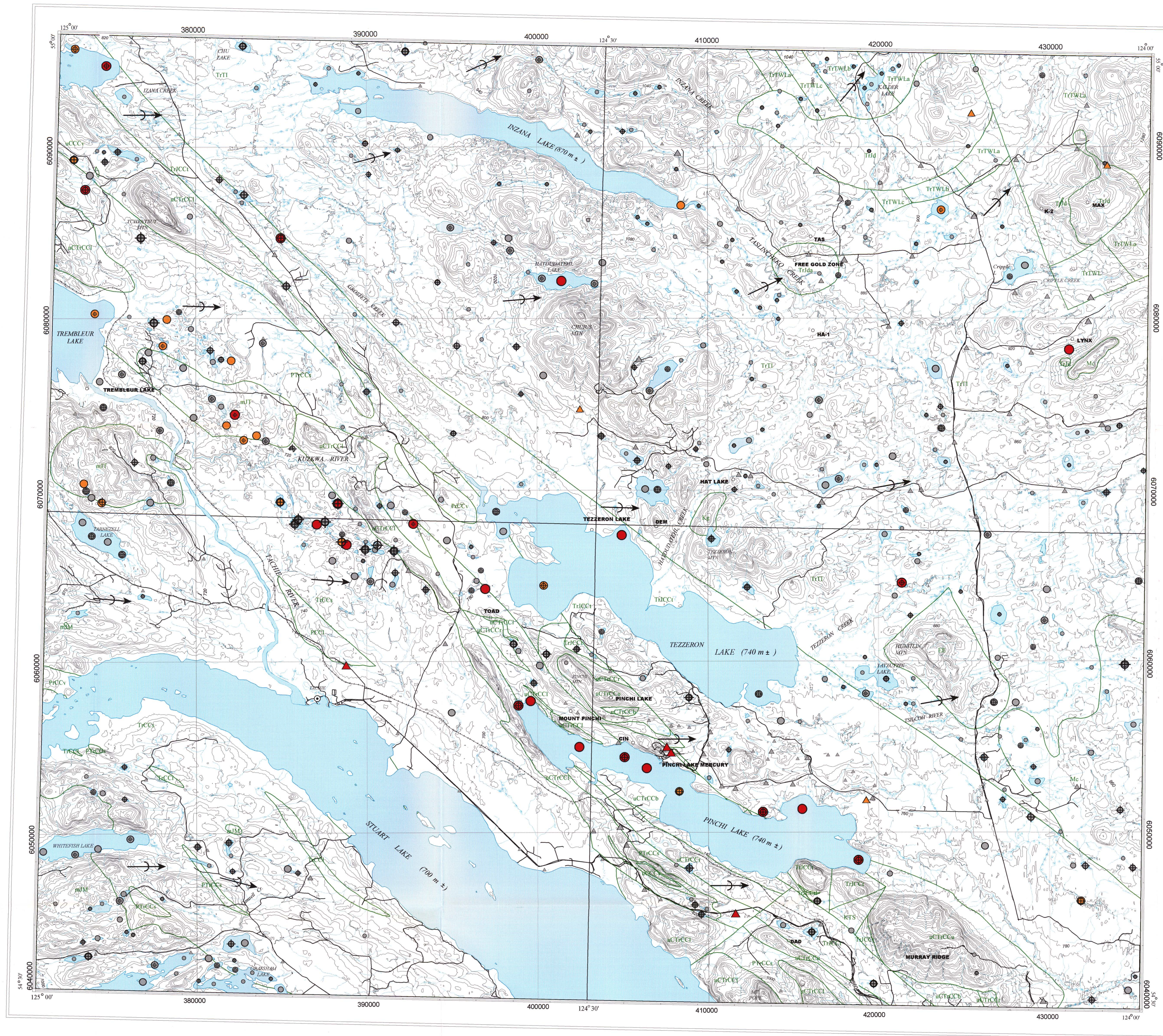
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(Sheet 9 of 9)

**REGIONAL GEOCHEMICAL COMPILATION:
Tezzeron-Pinchi Fault Zone Area**
(NTS 93K/09, 10, 15, 16)

By Stephen Cook, Wayne Jackaman, Alain Plouffe,
Joanne Nelson and Michelle Douville
Scale 1:100,000

4 0 4 8
km
UTM Zone 10
NAD 83

Barium

Lake Sediment (ppm) INAA		Lake Water (ppb) ICP-MS	
Concentration	Percentiles	Concentration	Percentiles
971 - 2400	● > 95th	110.820 - 388.823	⊕ > 95th
851 - 970	● 90th - 95th	70.565 - 110.819	⊕ 90th - 95th
581 - 850	● 70th - 90th	31.135 - 70.564	⊕ 70th - 90th
401 - 580	● 50th - 70th	18.378 - 31.134	⊕ 50th - 70th
50 - 400	● 0 - 50th	0.227 - 18.377	⊕ 0 - 50th
413 Sites		217 Sites	

Till (ppm) INAA	
Concentration	Percentiles
1501 - 2600	▲ > 95th
1401 - 1500	▲ 90th - 95th
1301 - 1400	▲ 70th - 90th
1101 - 1300	▲ 50th - 70th
610 - 1100	▲ 0 - 50th
136 Sites	

MINFILE Occurrences (Metallic)

- Showing
- Prospect
- Developed Prospect
- ✕ Past Producer

Base Information

- mT Geological Units
- Road (gravel)
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- River
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