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British Columbia
Ministry of Energy and Mines
Resource Development Division
Geological Survey Branch

REGIONAL STREAM SEDIMENT and WATER DATA

FORT FRASER, BRITISH COLUMBIA (NTS 93K)

GSC Open File 1766 / BC RGS 57

By P.W.B. Friske, W. Jackaman, R.E.W. Lett and M.W. McCurdy

National Geochemical Reconnaissance (NGR)

REGIONAL STREAM SEDIMENT AND WATER DATA

FORT FRASER, BRITISH COLUMBIA (NTS 93K)

GSC Open File 1766 / BC RGS 57

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Calcium	Ca	ICPES	Map	100
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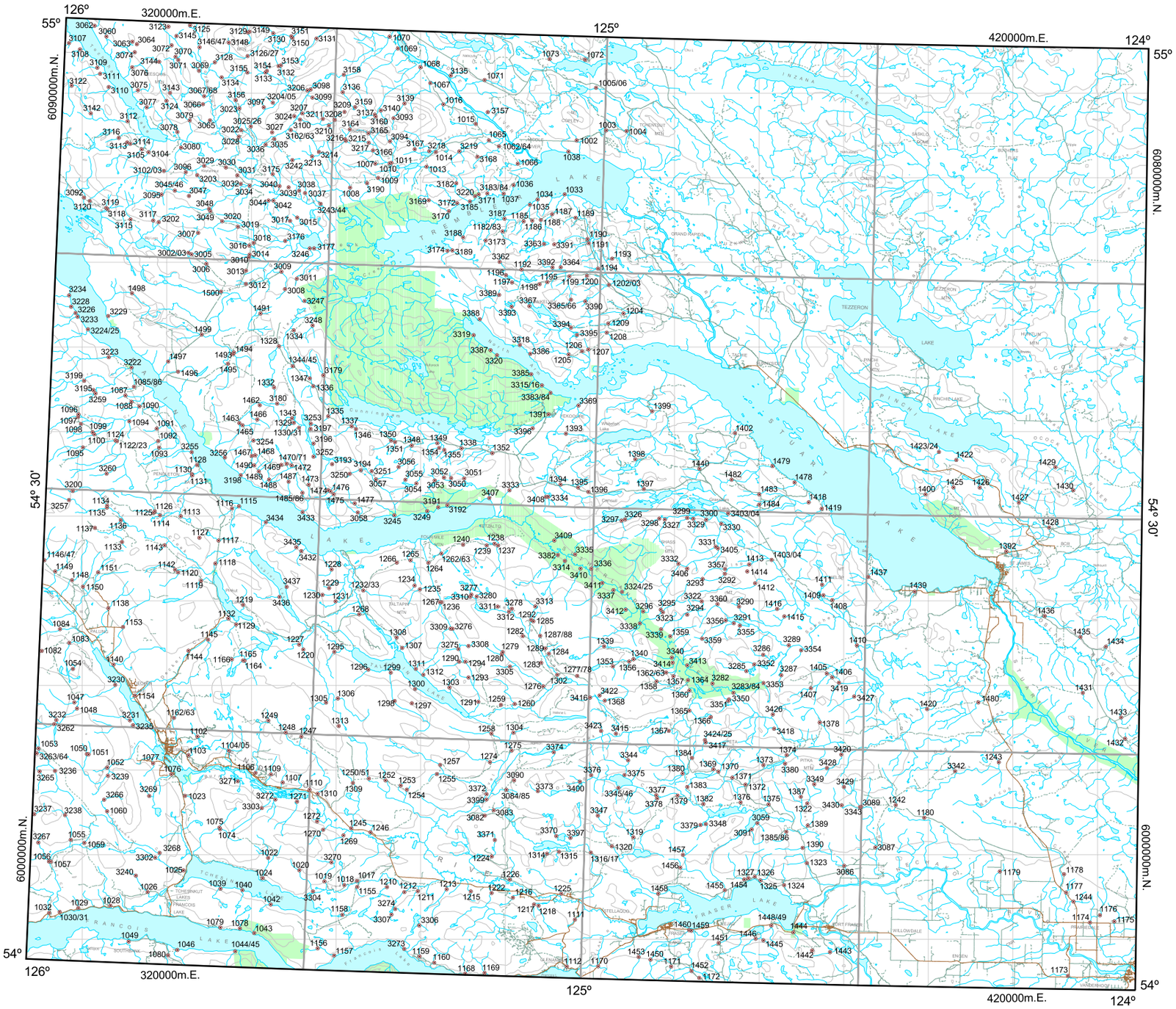

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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

SAMPLE LOCATIONS

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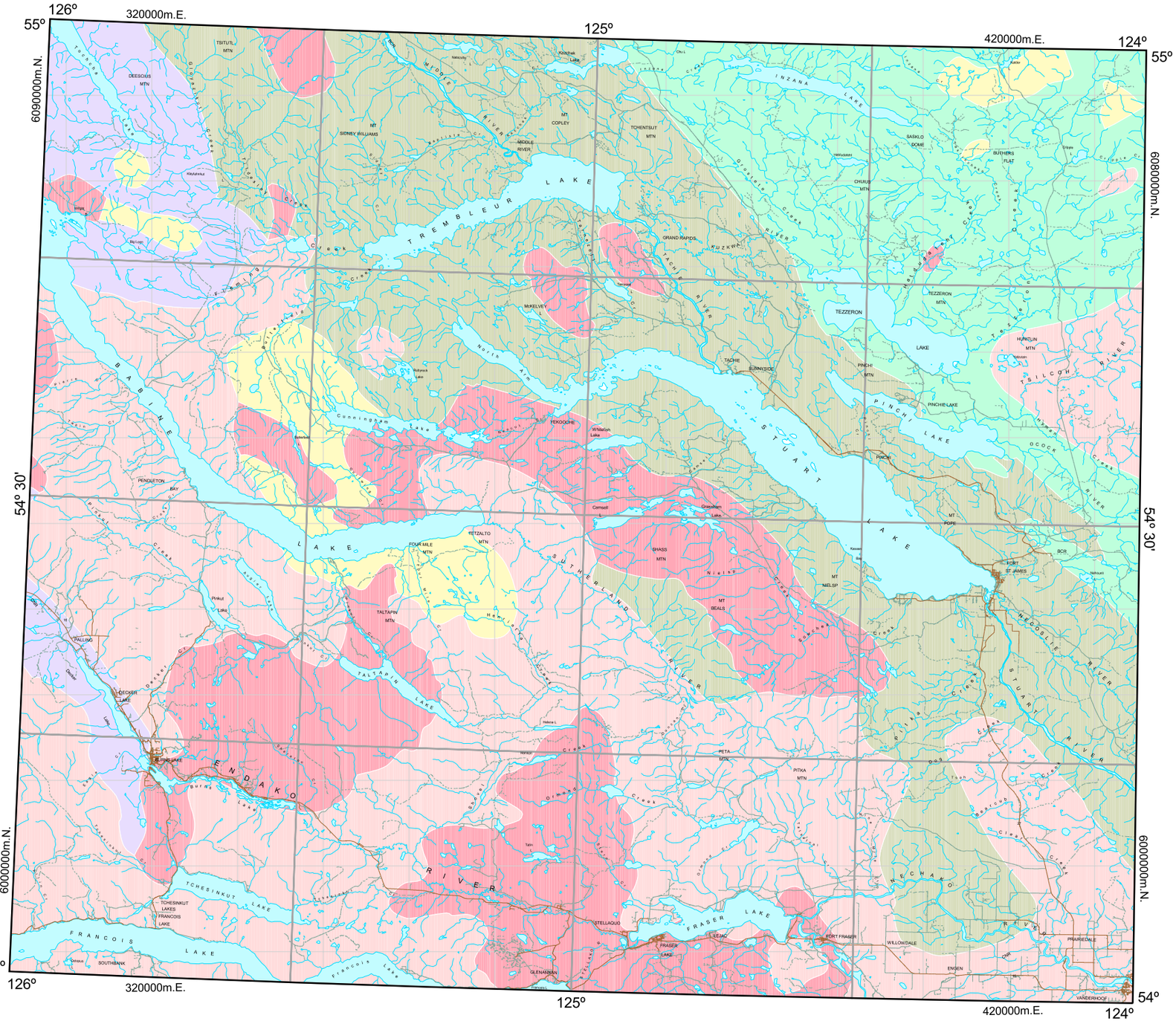

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Bedrock Geology

(after Journeay and Williams, 1995)

- Quesnellia Terrain
- Cache Creek Terrain
- Stikinia Terrain
- Overlap Assemblage
- Post Accretion Pluton
- Non Specific

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Energy and Minerals Division
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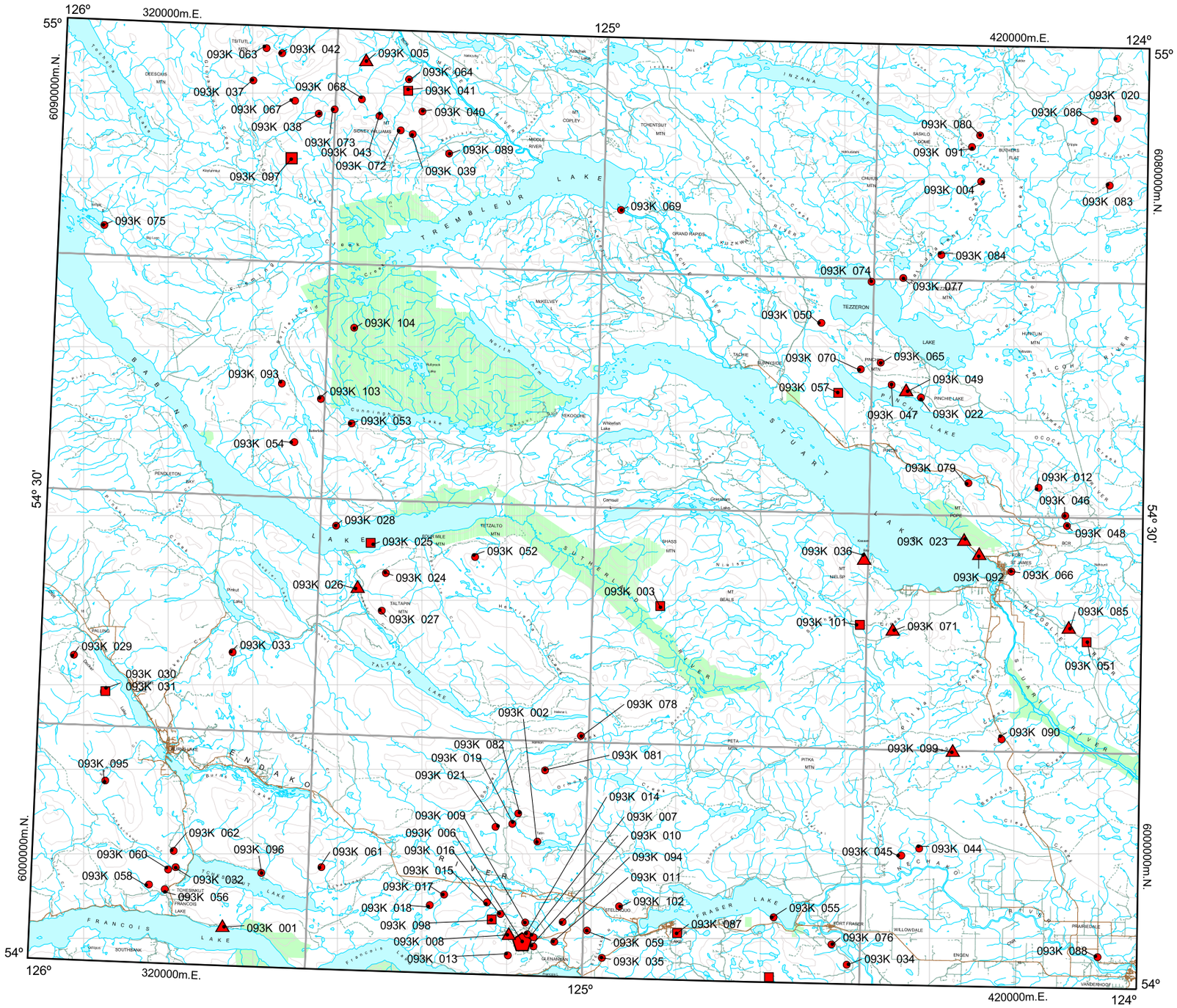
Mineral Occurrences - Fort Fraser (NTS 93K)

MINFILNO	Name	Status	Map	UTMZ	UTME	UTMN	Commodities	Deposit Type
093K 001	FRANCOIS	Past Producer	093K04E	10	326399	5991503	PE	Volcanic glass - perlite
093K 002	KEN	Showing	093K03E	10	363626	6001452	MO CU	
093K 003	KID	Prospect	093K07W	10	378148	6029310	MO CU WO	Porphyry Mo (Low F- type)
093K 004	HA-1	Showing	093K16W	10	416100	6079531	CU	
093K 005	GENESIS	Past Producer	093K14W	10	343398	6093913	JD GS	Jade
093K 006	ENDAKO	Producer	093K03E	10	361820	5989599	MO CU ZN WO BI	Porphyry Mo (Low F- type)
093K 007	CO	Showing	093K03E	10	363182	5990115	MO	Porphyry Mo (Low F- type)
093K 008	DENAK (ENDAKO)	Past Producer	093K03E	10	360247	5990574	MO	Porphyry Mo (Low F- type)
093K 009	DEER	Showing	093K03E	10	362197	5991877	MO	Porphyry Mo (Low F- type)
093K 010	BELL	Showing	093K03E	10	363169	5989033	MO	Porphyry Mo (Low F- type)
093K 011	CM	Showing	093K03E	10	365624	5989580	MO	Porphyry Mo (Low F- type)
093K 012	MURRAY RIDGE	Showing	093K09E	10	422887	6043300	CR	Podiform chromite
093K 013	FRAN	Showing	093K03E	10	360133	5987980	MO	Porphyry Mo (Low F- type)
093K 014	MO	Showing	093K03E	10	362447	5990477	MO	Porphyry Mo (Low F- type)
093K 015	RON	Showing	093K03E	10	357684	5994240	MO	Porphyry Mo (Low F- type)
093K 016	GEM	Showing	093K03E	10	359261	5992862	MO	Porphyry Mo (Low F- type)
093K 017	LORNE	Showing	093K03W	10	352603	5995172	MO CU	Porphyry Mo (Low F- type)
093K 018	GROS	Showing	093K03W	10	350908	5993927	FL	
093K 019	K 14	Showing	093K03E	10	360657	6003551	MO	Porphyry Mo (Low F- type)
093K 020	MAX	Showing	093K16E	10	432193	6086958	CU AU	Alkalic porphyry Cu-Au
093K 021	S	Showing	093K03E	10	358685	6003178	MO	
093K 022	PINCHI LAKE LIMESTONE	Showing	093K09W	10	408968	6053976	LS	Limestone
093K 023	FORT ST. JAMES NORTH	Past Producer	093K08W	10	414087	6037182	LS	Limestone
093K 024	RADIO GOLD	Showing	093K06W	10	345719	6033197	CU MO	
093K 025	SILVER ISLAND	Prospect	093K06W	10	343911	6036785	AG CU ZN PB BA	
093K 026	SILVER FOX	Past Producer	093K06W	10	342381	6031610	AG AU CU ZN PB	Porphyry Cu ± Mo ± Au
093K 027	ANDERSON	Showing	093K06W	10	345244	6028759	PB	
093K 028	BOLING	Showing	093K06W	10	339836	6038814	AG PB ZN AU CU	Polymetallic veins Ag-Pb-Zn±Au
093K 029	THREE STAR	Showing	093K05W	10	308846	6023543	CU	
093K 030	SILVER GLANCE	Showing	093K05W	10	312377	6019189	ZN PB AG AU	
093K 031	GOLDEN GLORY	Prospect	093K05W	10	312578	6019242	CU AG ZN PB AU	
093K 032	MONA	Showing	093K04E	10	320858	5998428	PB ZN AG CU BA FL	
093K 033	LING LAKE	Showing	093K05E	10	327596	6023852	MO CU	
093K 034	NECHAKO	Showing	093K02E	10	400199	5986882	CU AG	
093K 035	SONYA-HECTORIA	Showing	093K02W	10	371251	5987689	ZN CU	
093K 036	SNOWBIRD	Past Producer	093K07E	10	402245	6034946	AU SB	Au-quartz veins
093K 037	TSITSUTL MOUNTAIN CHROMIUM	Showing	093K13E	10	330061	6091491	CR	Podiform chromite
093K 038	TILDESLEY CREEK	Showing	093K13E	10	337774	6087554	CR	Podiform chromite
093K 039	MT. SIDNEY WILLIAMS CR	Showing	093K14W	10	348904	6085123	CR	Podiform chromite
093K 040	PAULINE	Showing	093K14W	10	350046	6087808	CR	Podiform chromite
093K 041	VAN DECAR CREEK	Prospect	093K14W	10	348364	6090246	CR	Podiform chromite
093K 042	TSITSUTL MOUNTAIN TIN	Showing	093K13E	10	333459	6094705	SN MN VA CO ZN RO	Rhodonite
093K 043	MT. SIDNEY WILLIAMS	Showing	093K14W	10	344948	6087269	AB AU AG CR	Ultramafic-hosted asbestos
093K 044	GODWIN	Showing	093K01W	10	408772	6000618	MN	
093K 045	TEAD	Showing	093K01W	10	406650	5999795	MN	
093K 046	SUNSHINE	Showing	093K09E	10	426051	6039971	HG	Almaden Hg
093K 047	CIN	Showing	093K09W	10	405501	6055470	HG	Almaden Hg
093K 048	CALEX	Showing	093K08E	10	426229	6038762	HG	Almaden Hg
093K 049	PINCHI LAKE MERCURY	Past Producer	093K09W	10	407228	6054877	HG	Almaden Hg
093K 050	TOAD	Showing	093K10E	10	397202	6062793	HG	Almaden Hg
093K 051	JOHN	Prospect	093K08E	10	428552	6025030	LS	Limestone
093K 052	J	Showing	093K06E	10	356258	6035112	CU	
093K 053	CUNNINGHAM LAKE	Showing	093K11W	10	341681	6050907	AG PB	
093K 054	BL	Showing	093K12E	10	334898	6048705	CU	
093K 055	FRASER LAKE COAL	Showing	093K02E	10	391555	5992487	CL	Lignite
093K 056	FRANCOIS LAKE ASPHALTUM	Showing	093K04W	10	319574	5995817	PP BM	
093K 057	THUR	Prospect	093K10E	10	399203	6054523	LS	Limestone
093K 058	BRUCE	Showing	093K04W	10	317703	5996354	AU AG	Epithermal Au-Ag: low sulphidation
093K 059	ICE	Showing	093K02W	10	369503	5990923	MO	
093K 060	OAKLA	Showing	093K04W	10	319975	5998153	AU	
093K 061	KATHLEEN JANE	Showing	093K03W	10	338093	5998411	ZN	
093K 062	GAMBLE	Showing	093K04E	10	320624	6000355	AG AU ZN PB	
093K 063	TSITSUTL MOUNTAIN	Showing	093K13E	10	331630	6095300	CU	
093K 064	VAN DECAR CREEK PLACER	Showing	093K14W	10	348446	6091605	AU	Surficial placers
093K 065	PINCHI LAKE	Showing	093K09W	10	404211	6058094	MT	Ultramafic-hosted talc-magnesite
093K 066	DICKINSON MOUNTAIN	Showing	093K08E	10	419673	6033370	HG	Almaden Hg
093K 067	DIANE	Showing	093K13E	10	334996	6089079	CU AU ZN	
093K 068	VAN DECAR ASBESTOS	Showing	093K14W	10	342878	6089229	AB	Ultramafic-hosted asbestos
093K 069	TREMBLEUR LAKE	Showing	093K15W	10	373523	6076166	PB	
093K 070	MOUNT PINCHI	Showing	093K10E	10	401864	6057309	HG	Almaden Hg
093K 071	SOWCHEA CREEK	Past Producer	093K08W	10	405639	6026558	AU	Surficial placers
093K 072	SIDNEY	Showing	093K14W	10	347475	6085574	CR	Podiform chromite
093K 073	O'NE-ELL CREEK	Showing	093K14W	10	339663	6088043	CR	Podiform chromite
093K 074	TEZZERON LAKE	Showing	093K10E	10	403126	6067671	PB ZN	
093K 075	MARY ANN	Showing	093K13W	10	312439	6074367	CU	
093K 076	GOODWIN	Showing	093K02E	10	398394	5989271	CU AG	Porphyry Cu ± Mo ± Au
093K 077	DEM	Showing	093K16W	10	406891	6068118	AS	Au skarn
093K 078	HANSON LAKE	Showing	093K06E	10	368776	6013952	CU AU AG MO ZN PB	Porphyry Cu ± Mo ± Au
093K 079	DAD	Showing	093K09W	10	414590	6043850	HG	
093K 080	TAS	Showing	093K16W	10	415970	6084975	AU CU	Alkalic porphyry Cu-Au
093K 081	ENDEX	Showing	093K03E	10	364546	6009868	MO CU	Porphyry Cu ± Mo ± Au
093K 082	LOON	Showing	093K03E	10	361365	6004767	UR AU	
093K 083	LYNX	Showing	093K16W	10	431288	6079026	CU	
093K 084	HAT LAKE	Showing	093K16W	10	411398	6070841	CU	Alkalic porphyry Cu-Au
093K 085	NECOSLIE RIVER LIMESTONE	Past Producer	093K08E	10	426451	6026795	LS	Limestone
093K 086	K-2	Showing	093K16W	10	429499	6086628	CU	
093K 087	FRASER LAKE	Prospect	093K02W	10	380140	5990635	CY	Fireclay
093K 088	VANDERHOOF	Showing	093K01E	10	429847	5987761	CY	Fireclay
093K 089	BAPTISTE	Showing	093K14W	10	353198	6082816	TC SZ	Ultramafic-hosted talc-magnesite
093K 090	NOBLE	Showing	093K08E	10	418511	6013543	CU AU AG	
093K 091	FREE GOLD ZONE	Showing	093K16W	10	415017	6083602	AU CU	Alkalic porphyry Cu-Au
093K 092	FORT ST. JAMES SOUTH	Past Producer	093K08W	10	415857	6035510	LS	Limestone
093K 093	FORT	Showing	093K12E	10	333426	6055627	CU AG MO PB ZN AU	Porphyry Cu ± Mo ± Au
093K 094	CASEY PEGMATITE	Showing	093K03E	10	366620	5991933	FD MI SI	
093K 095	EAGLE CREEK	Showing	093K04W	10	312545	6008660	OP AE GS	Volcanic-hosted opal
093K 096	TCHESINKUT LAKE	Showing	093K04E	10	330979	5997737	AE ZE GS	
093K 097	MAC	Developed Prospect	093K13E	10	334584	6082256	MO CU	Porphyry Mo (Low F- type)
093K 098	DAT	Prospect	093K03E	10	358223	5992244	MO	Porphyry Mo (Low F- type)
093K 099	DOG CREEK	Past Producer	093K08W	10	412731	6012227	AU	Surficial placers
093K 100	JOSEPH LAKE	Prospect	093K02E	10	391006	5985389	VM	Vermiculite deposits
093K 101	SOWCHEA CREEK VERMICULITE	Prospect	093K07E	10	401752	6027073	VM	Vermiculite deposits
093K 102	JED	Showing	093K02W	10	373293	5993786	AU	
093K 103	OWL	Showing	093K12E	10	338028	6053790	CU AG AU ZN PB	Cu±Ag quartz veins
093K 104	RUBYROCK CREEK	Showing	093K11W	10	341968	6062220	CU	Porphyry Cu ± Mo ± Au



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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Mineral Occurrences

- Producer
- Past Producer
- Developed Prospect
- Prospect
- Showing

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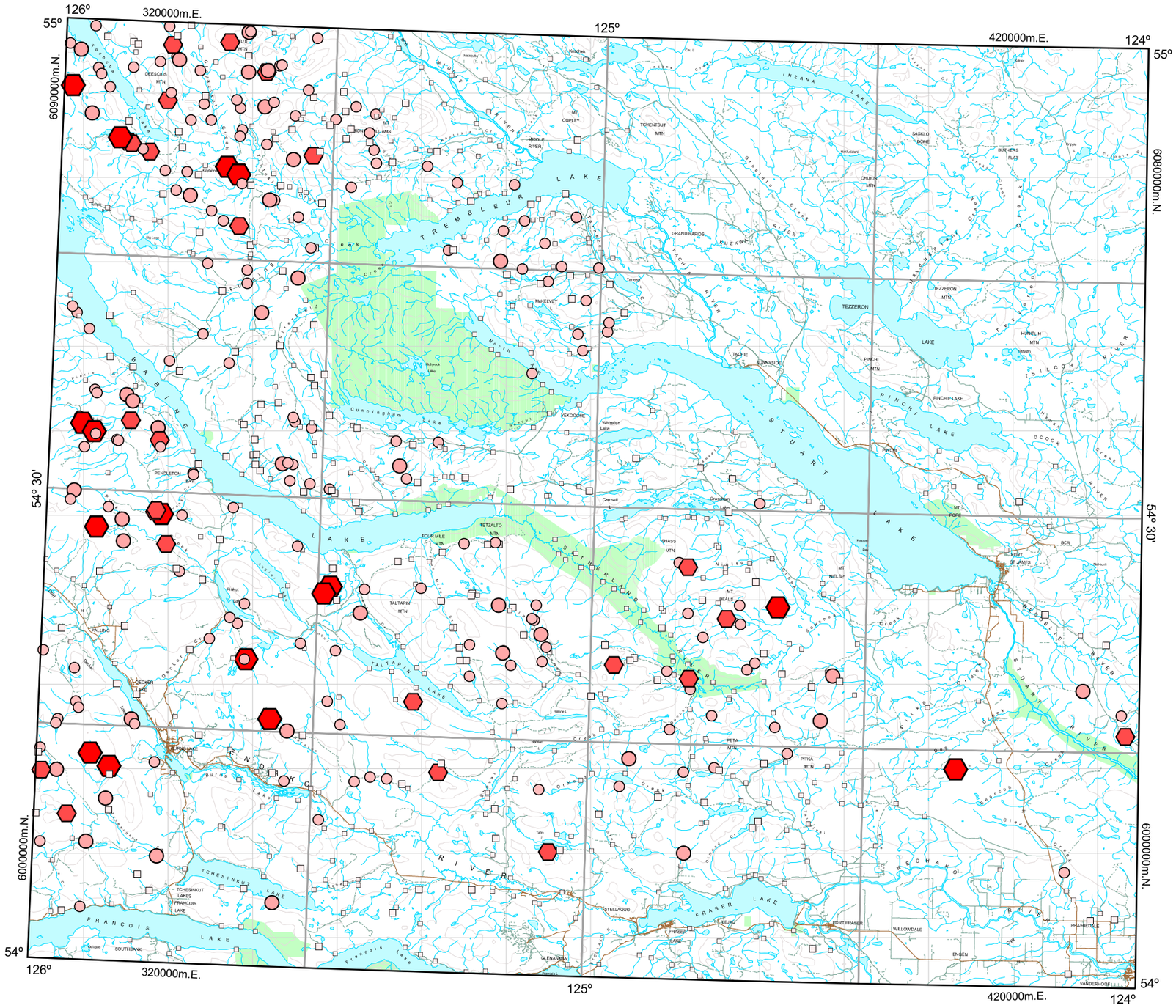
126°
320000m.E.
125°
420000m.E.
124°
55°
6090000m.N.
6080000m.N.
54° 30'
6000000m.N.
54°
TREMBLEUR LAKE
STUART LAKE
FRASER LAKE
FRANCOIS LAKE
TEZZERON LAKE
PINCHI LAKE
TAKLA LAKE
TAPTAPIN LAKE
TCHESINKUT LAKE
INZANA LAKE
FRASER RIVER
STUART RIVER
NECHAKO RIVER
TSILCH RIVER
OGDEN RIVER
TAKLA
FORT FRASER
FORT ST. JAMES
VANDERHOOF
PRAIRIEDALE
WILLOWDALE
ENGEN
STELLAQUO
GLENAVON
SOUTHBANK
TCHESINKUT LAKES
FRANCOIS LAKE
TEZZERON
PINCHI LAKE
GRAND RAPIDS
MIDDLE RIVER
MIDDLE RIVER
MT. COPLEY
TOHENBUT MTN
SASKLO BOWL
BUCHERS FLAT
CHURUS MTN
TEZZERON MTN
HUNCLUN MTN
TACHE
EUNNIDIS
PINCHI MTN
PINCHI LAKE
PINCHI
MT. POPE
MT. NELSIE
MT. BEALS
SHASS MTN
PETA MTN
PITKA MTN
TETZALTO MTN
FOUR MILE MTN
TALTAPIN MTN
MAKELVEY
YEKOOCHE
Whitefish Lake
Cunningham Lake
Cameron Lake
Grassham Lake
PENDLETON
FALLING
LECKIE LAKE
BURNS LAKE
DEESCUS MTN
MT. HUMAS
MT. COPLEY
Nakoulay
KENZIE
Chu L.
Kazan
Kuzkwa
Tachie
Tezzeron
Pinchi
Ogden
Stellaquo
Fraser
Nechako
Stuart
Tsilcho
Ogden
Nadina
Burns
Francois
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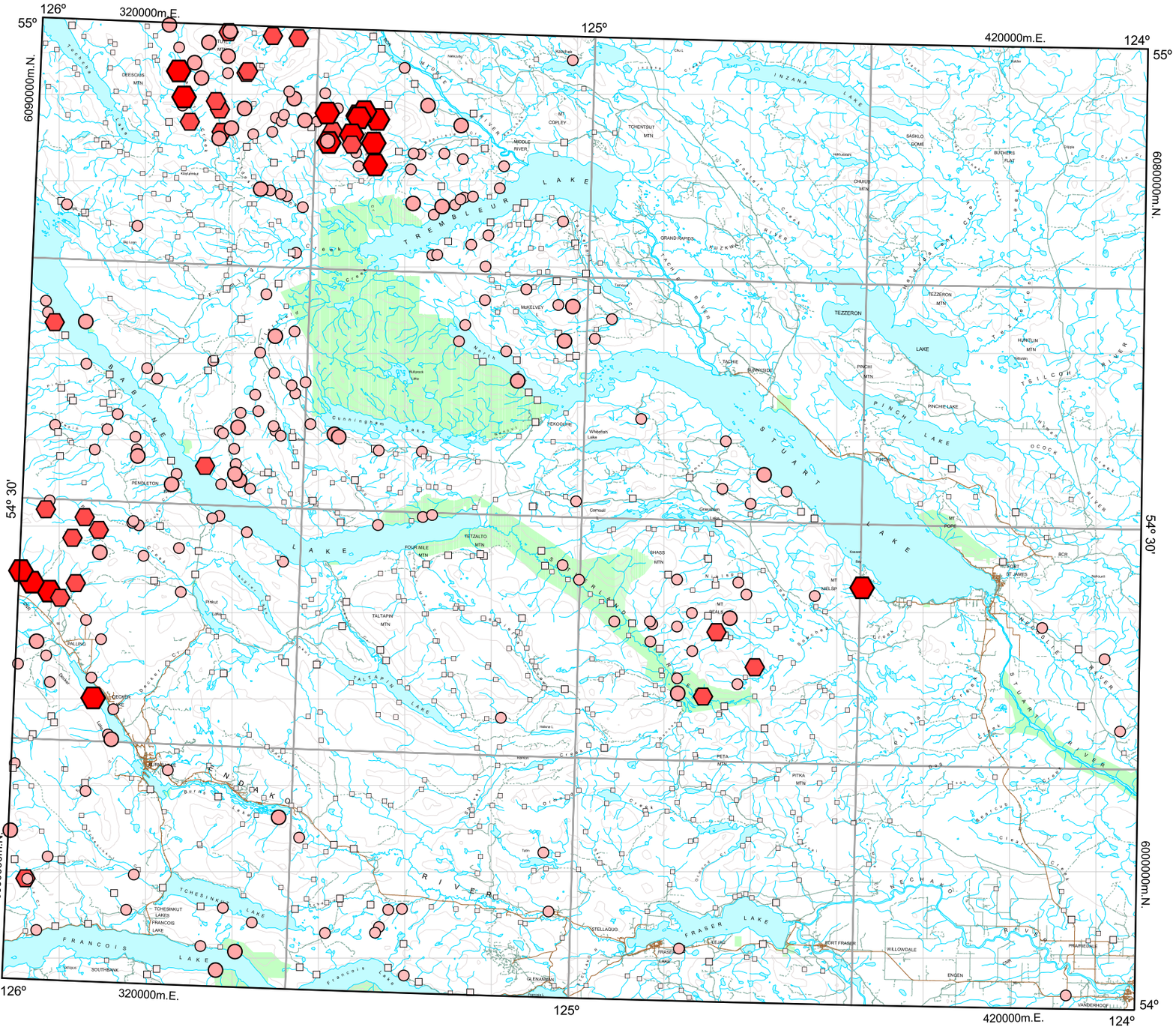
Nakoulay



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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Antimony by ICPMS

Stream Sediment

Concentration	(ppm)	Frequency
1.02 to 5.03		n = 16 (2.0%)
0.68 to 1.01		n = 24 (3.0%)
0.55 to 0.67		n = 39 (4.9%)
0.38 to 0.54		n = 156 (19.6%)
0.31 to 0.37		n = 137 (17.2%)
0.08 to 0.30		n = 423 (53.2%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

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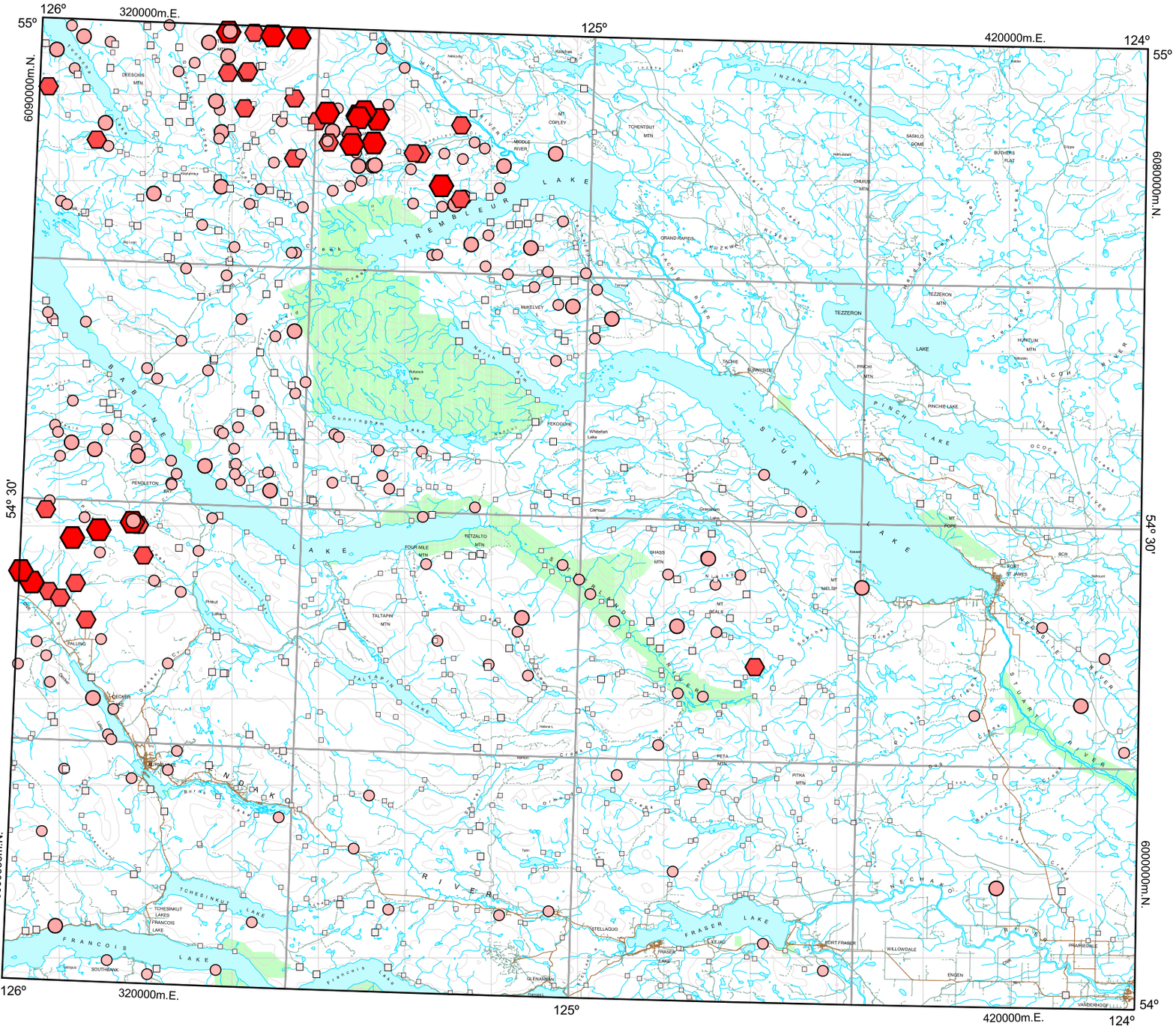

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0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Arsenic by ICPMS

Stream Sediment

Concentration	(ppm)	Frequency
29.3 to 308.3		n = 16 (2.0%)
17.6 to 29.2		n = 24 (3.0%)
12.4 to 17.5		n = 37 (4.7%)
7.5 to 12.3		n = 153 (19.2%)
5.5 to 7.4		n = 164 (20.6%)
0.8 to 5.4		n = 401 (50.4%)

795 Sample Sites

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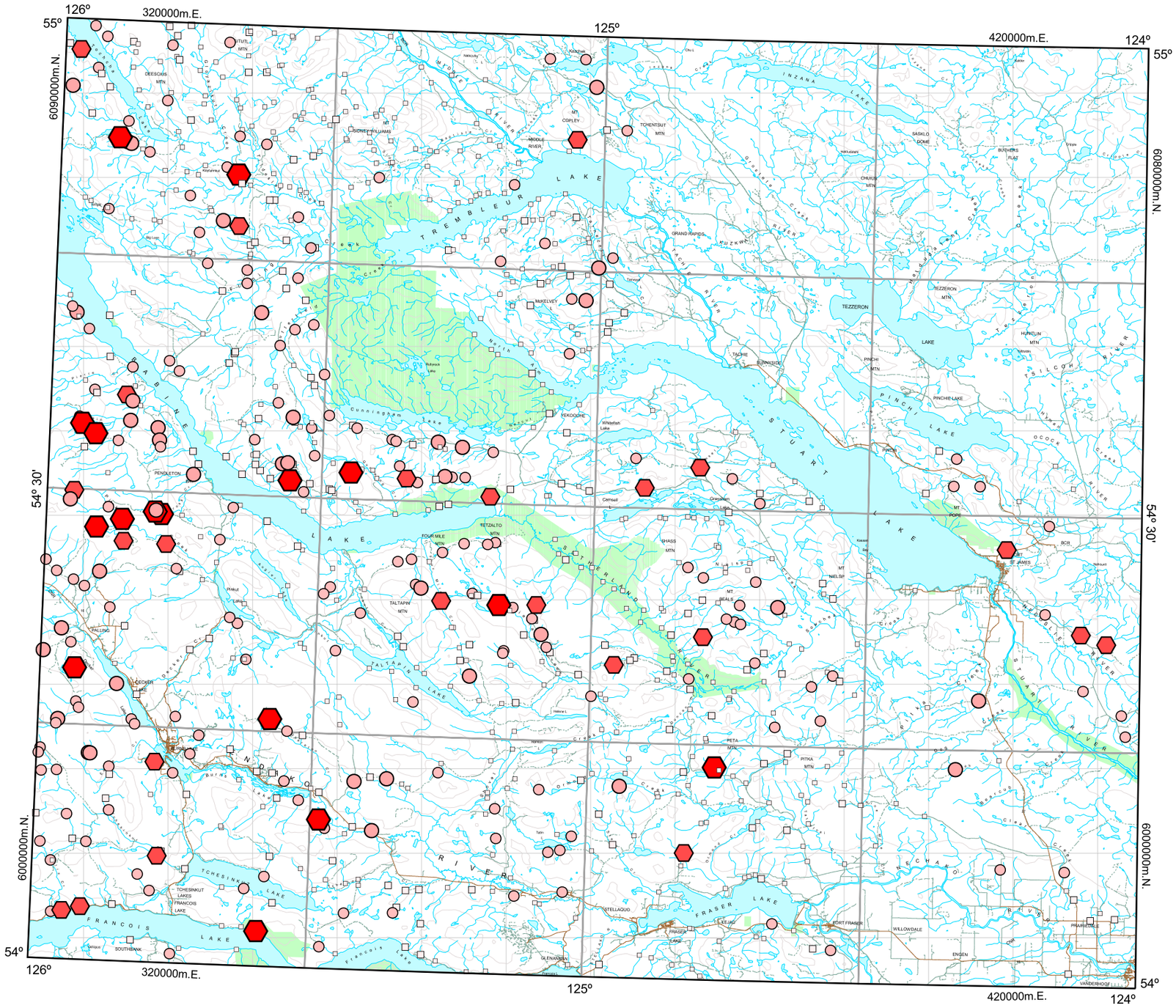

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FORT FRASER

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Kilometres

UTM Zone 10
NAD 83

Barium by ICPMS

Stream Sediment

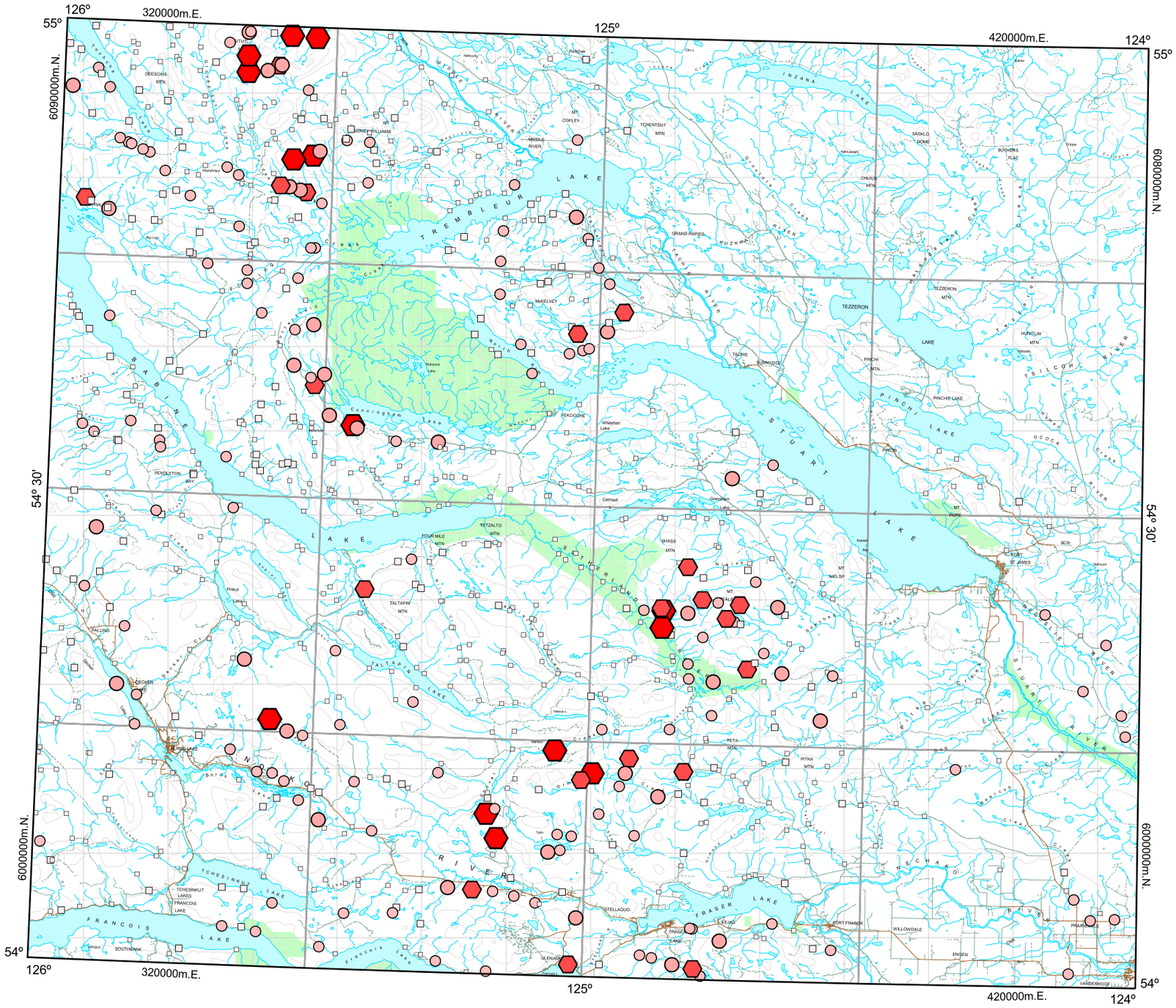
Concentration	(ppm)	Frequency
493.6 to 1447.1	⬢	n = 16 (2.0%)
377.0 to 493.5	⬢	n = 24 (3.0%)
312.8 to 376.9	●	n = 39 (4.9%)
218.6 to 312.7	●	n = 159 (20.0%)
171.1 to 218.5	▢	n = 159 (20.0%)
23.1 to 171.0	▫	n = 398 (50.1%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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



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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Bismuth by ICPMS

Stream Sediment

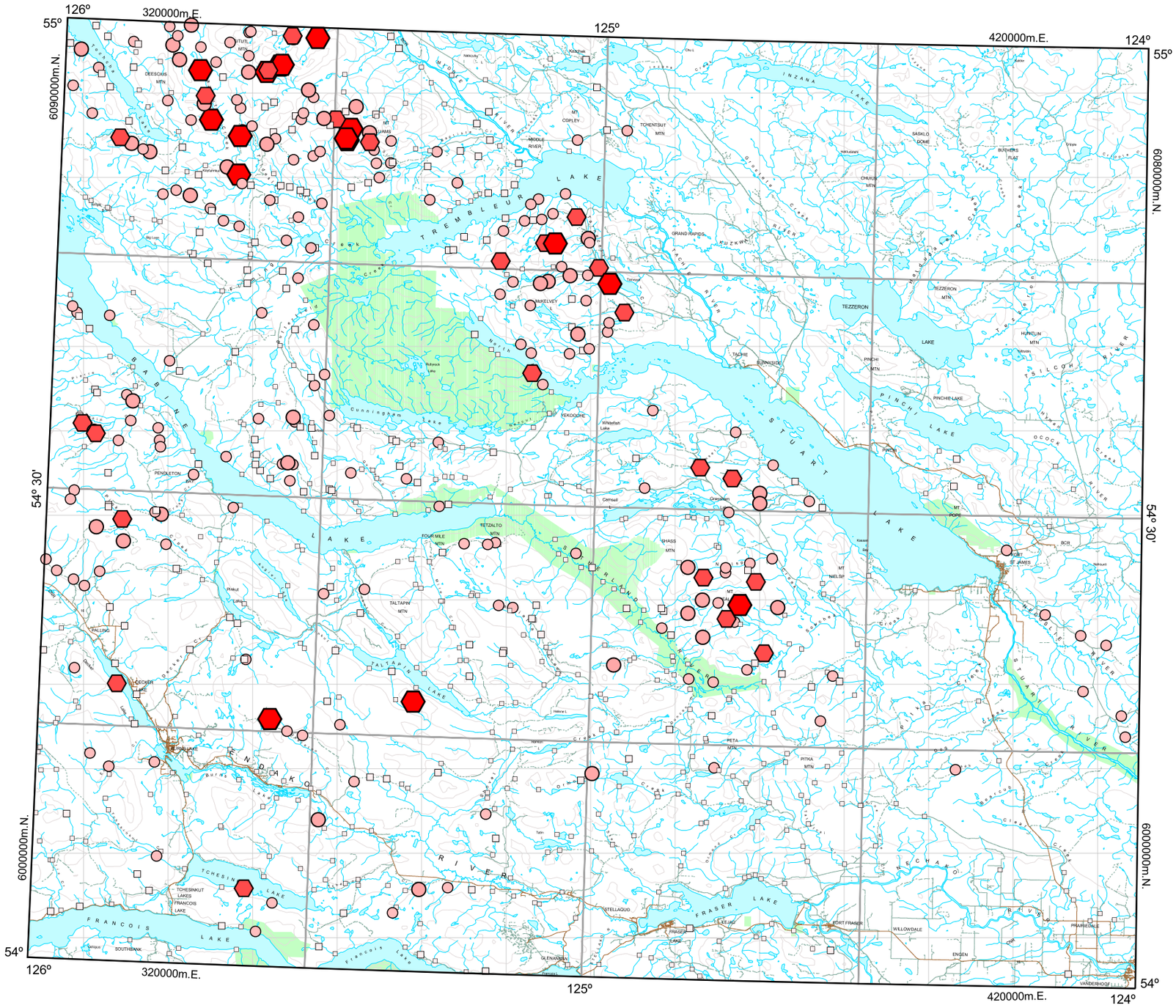
Concentration	(ppm)	Frequency
0.30 to 2.13		n = 14 (1.8%)
0.20 to 0.29		n = 20 (2.5%)
0.16 to 0.19		n = 34 (4.3%)
0.11 to 0.15		n = 119 (15.0%)
0.09 to 0.10		n = 148 (18.6%)
0.02 to 0.08		n = 460 (57.9%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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



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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Cadmium by ICPMS

Stream Sediment

Concentration	(ppm)	Frequency
1.56 to 8.18		n = 16 (2.0%)
0.93 to 1.55		n = 23 (2.9%)
0.68 to 0.92		n = 39 (4.9%)
0.36 to 0.67		n = 156 (19.6%)
0.23 to 0.35		n = 160 (20.1%)
<0.01 to 0.22		n = 401 (50.4%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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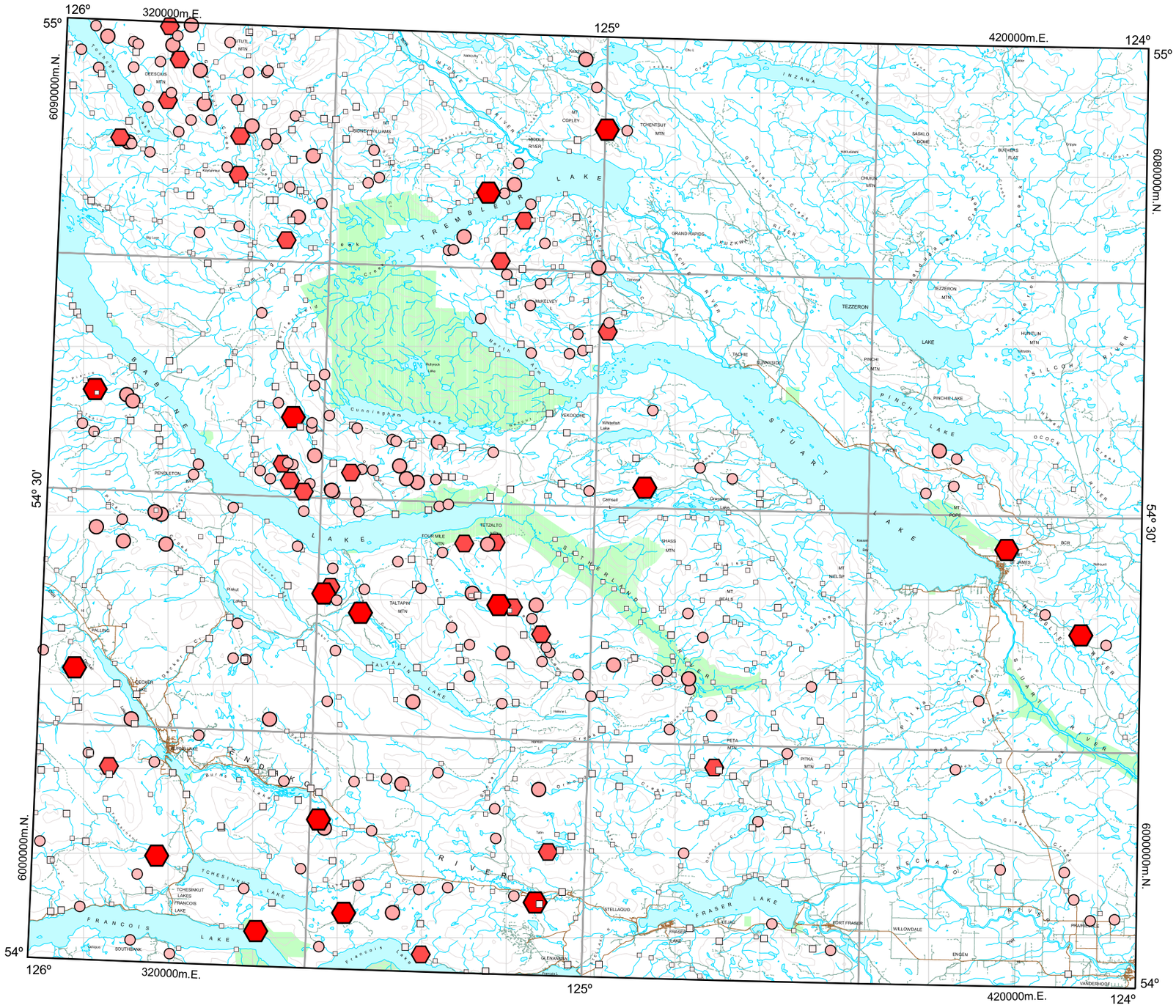
Energy and Minerals Division
Geological Survey Branch



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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Calcium by ICPMS

Stream Sediment

Concentration	(%)	Frequency
1.73 to 8.42		n = 16 (2.0%)
1.35 to 1.72		n = 23 (2.9%)
1.07 to 1.34		n = 40 (5.0%)
0.76 to 1.06		n = 157 (19.7%)
0.63 to 0.75		n = 152 (19.1%)
0.14 to 0.62		n = 407 (51.2%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

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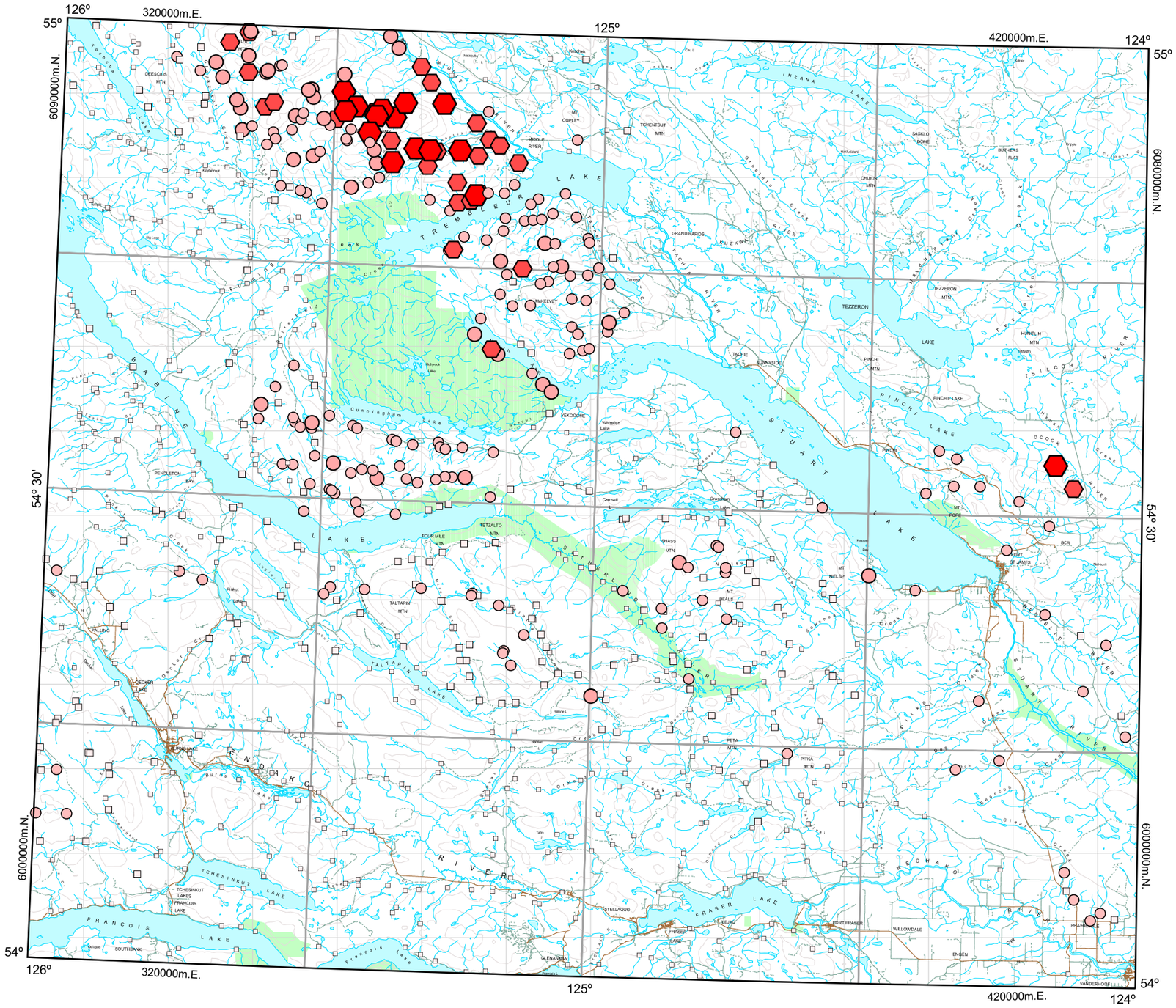
Energy and Minerals Division
Geological Survey Branch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FRANCOIS LAKE
TEZZERON LAKE
PINCHI LAKE
TAKLA LAKE
TAltapin LAKE
TCHESINKUT LAKE
FRASER RIVER
STUART RIVER
NECHAKO RIVER
TSILCOH RIVER
OGDEN RIVER
SABINE RIVER
FORT FRASER
FORT ST. JAMES
VANDERHOOF
PRAIRIE CITY
WILLOWDALE
ENGEN
STELLAQUO
GLENAVON
SOUTHBANK
TEZZERON
PINCHI LAKE
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FRANCOIS LAKE
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STUART LAKE
INZANA LAKE
GRAND RAPIDS
MIDDLE RIVER
MIKELEVEY
VEKOOCHE
PENDLETON BAY
FOUR MILE MTN
TETZALTO MTN
TALTAPIN MTN
SHASS MTN
MT NELSIP
MT BEALS
PETA MTN
PITKA MTN
MT POPE
PINCHI MTN
TOHENTBUT MTN
MT COPLEY
DEESCUS MTN
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HUNCLUN MTN
TEZZERON MTN
SASKLO BOME
BUCHERS FLAT
TACHE
BURNSIDE
Cunningham Lake
Whitefish Lake
Carnsall
Grassmere
Kuzkwk
Tachie River
Nechako River
Stuart River
Tsilcoh River
Ogden River
Sabine River
Middle River
Tsecha River
Tsecha Creek
Cunningham Creek
Pendleton Bay
Pinchi Creek
Ogden Creek
Tsilcoh River
Stellaquo Creek
Fraser River
Francois Lake
Tchesinkut Lake
Tchesinkut Lake Lakes
Francois Lake
Southbank
Glenavon
Stellaquo
Fraser Lake
Fort Fraser
Willowdale
Engen
Prairie City
Vanderhoof
Fort St. James
Pinchi Lake
Takla Lake
Taltapin Lake
Decker Lake
Burns Lake
Tetzalto Mtn
Four Mile Mtn
Shass Mtn
Mt Nelsip
Mt Beals
Peta Mtn
Pitka Mtn
Mt Pope
Pinchi Mtn
Tohentbut Mtn
Mt Copley
Deescus Mtn
Chutos Mtn
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Tezzeron Mtn
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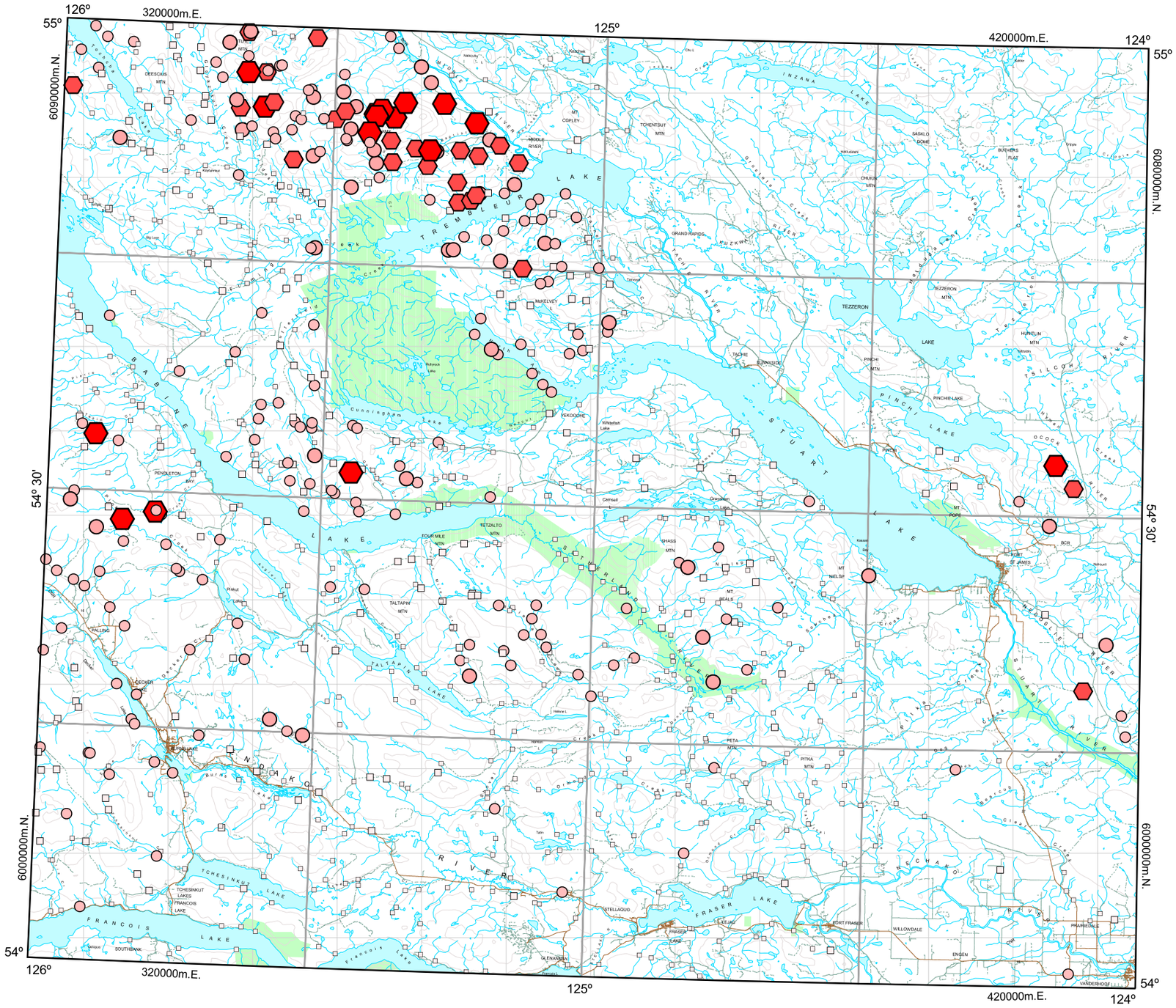
Buchers Flat
Tache
Burnside
Vekooche
Mikelevey
Grand Rapids
Kuzkwk



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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Cobalt by ICPMS

Stream Sediment

Concentration	(ppm)	Frequency
35.0 to 85.2		n = 16 (2.0%)
26.4 to 34.9		n = 24 (3.0%)
20.3 to 26.3		n = 39 (4.9%)
14.0 to 20.2		n = 159 (20.0%)
11.8 to 13.9		n = 153 (19.2%)
1.5 to 11.7		n = 404 (50.8%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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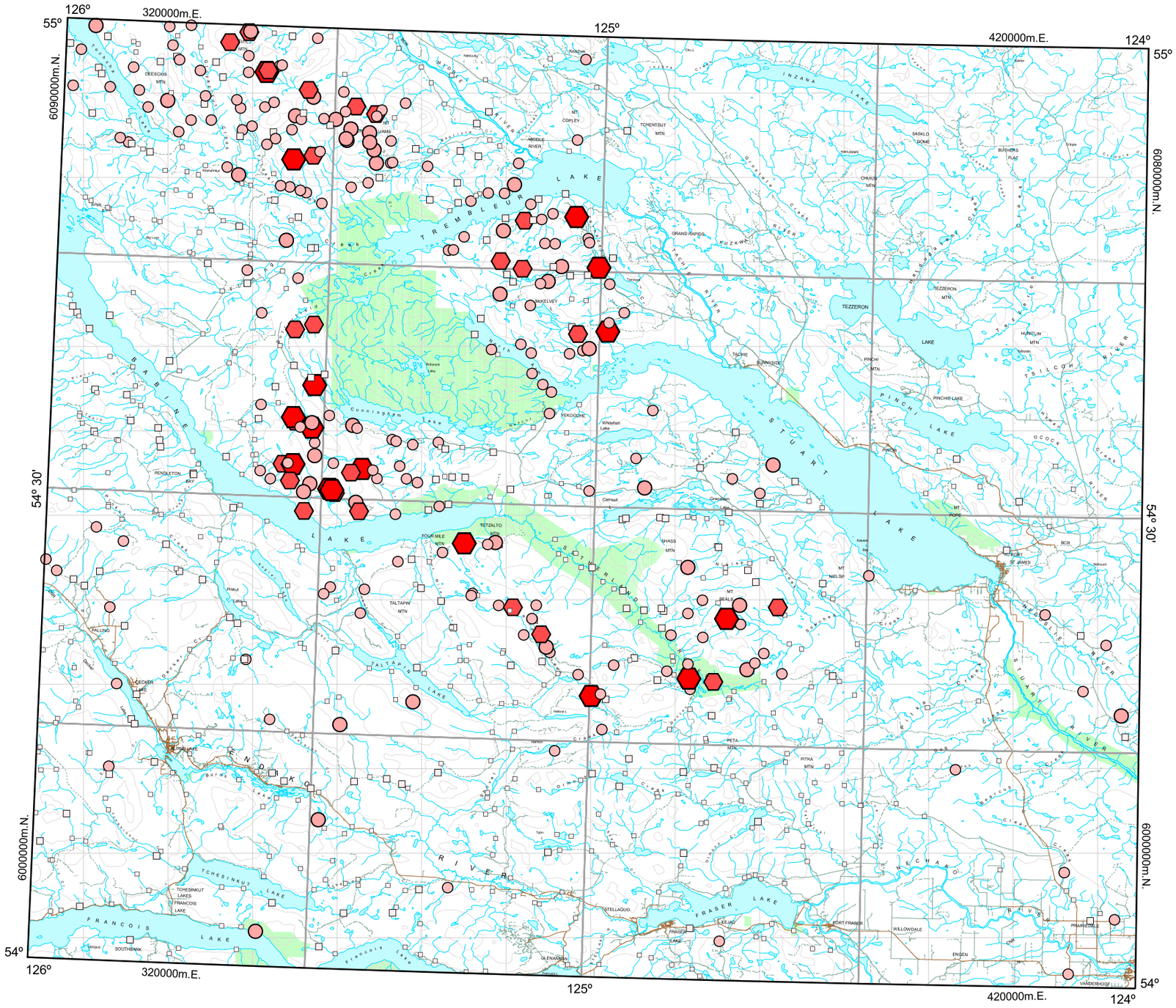
Ministry of Energy and Mines
Energy and Minerals Division
Geological Survey Branch



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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Copper by ICPMS

Stream Sediment

Concentration	(ppm)	Frequency
78.13 to 127.82		n = 16 (2.0%)
58.71 to 78.12		n = 24 (3.0%)
46.07 to 58.70		n = 39 (4.9%)
29.79 to 46.06		n = 159 (20.0%)
21.86 to 29.78		n = 159 (20.0%)
2.04 to 21.85		n = 398 (50.1%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
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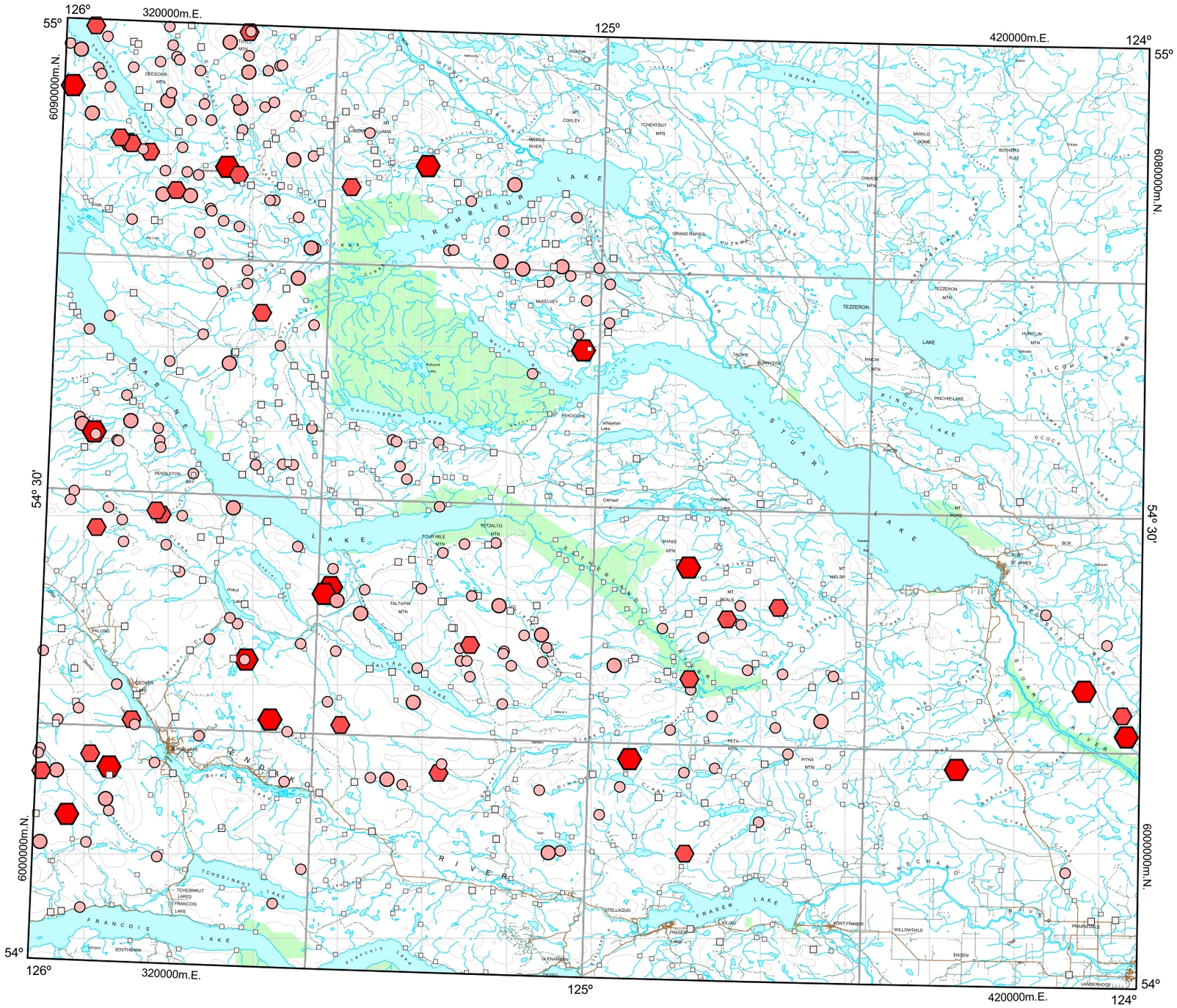
Geological Survey Branch



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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Gallium by ICPMS

Stream Sediment

Concentration	(ppm)	Frequency
7.3 to 10.0		n = 16 (2.0%)
6.5 to 7.2		n = 24 (3.0%)
6.1 to 6.4		n = 31 (3.9%)
4.9 to 6.0		n = 163 (20.5%)
4.4 to 4.8		n = 135 (17.0%)
1.7 to 4.4		n = 426 (53.6%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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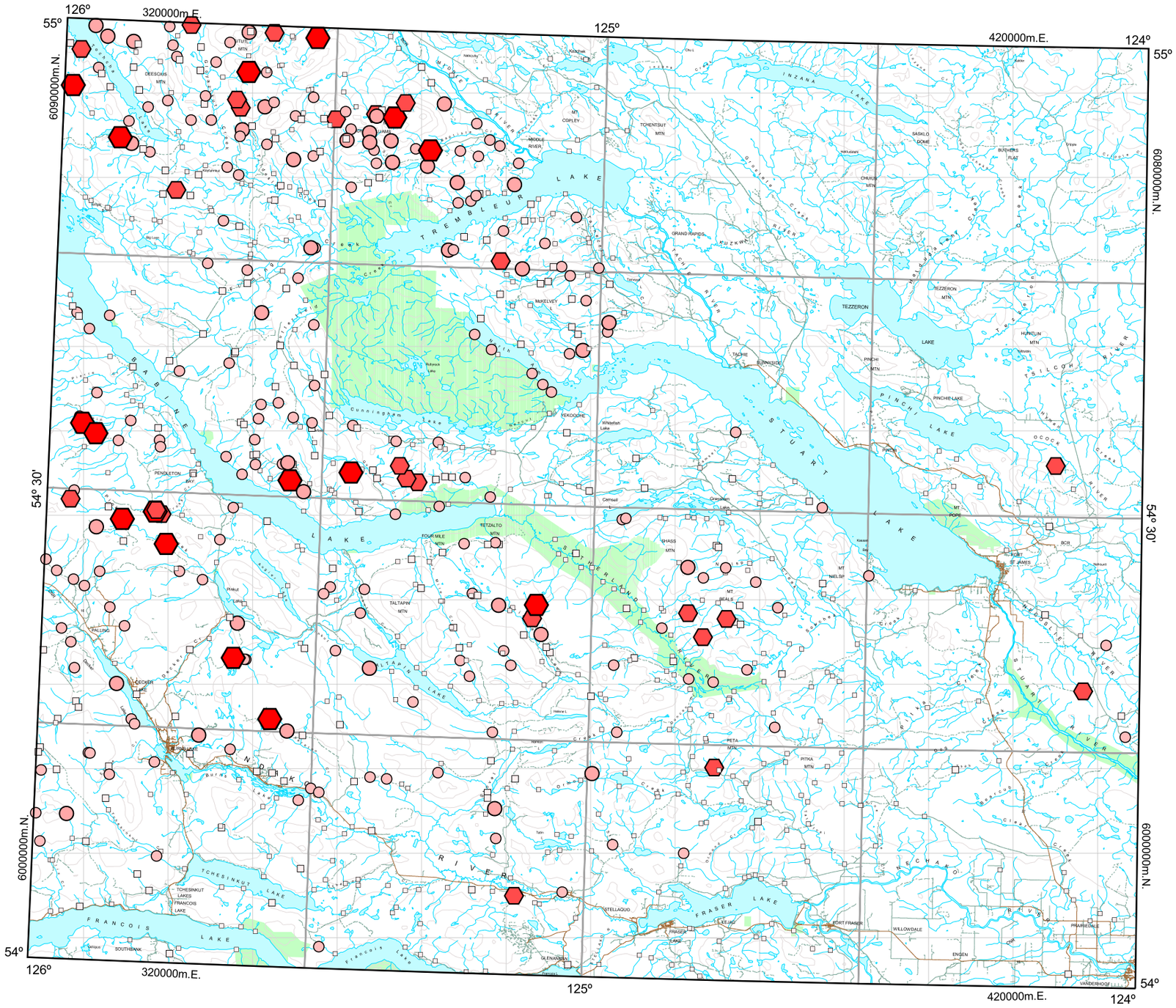

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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Iron by ICPMS

Stream Sediment

Concentration	(%)	Frequency
4.90 to 12.70		n = 16 (2.0%)
4.30 to 4.89		n = 24 (3.0%)
3.81 to 4.29		n = 38 (4.8%)
3.12 to 3.80		n = 159 (20.0%)
2.77 to 3.11		n = 156 (19.6%)
1.04 to 2.76		n = 402 (50.6%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
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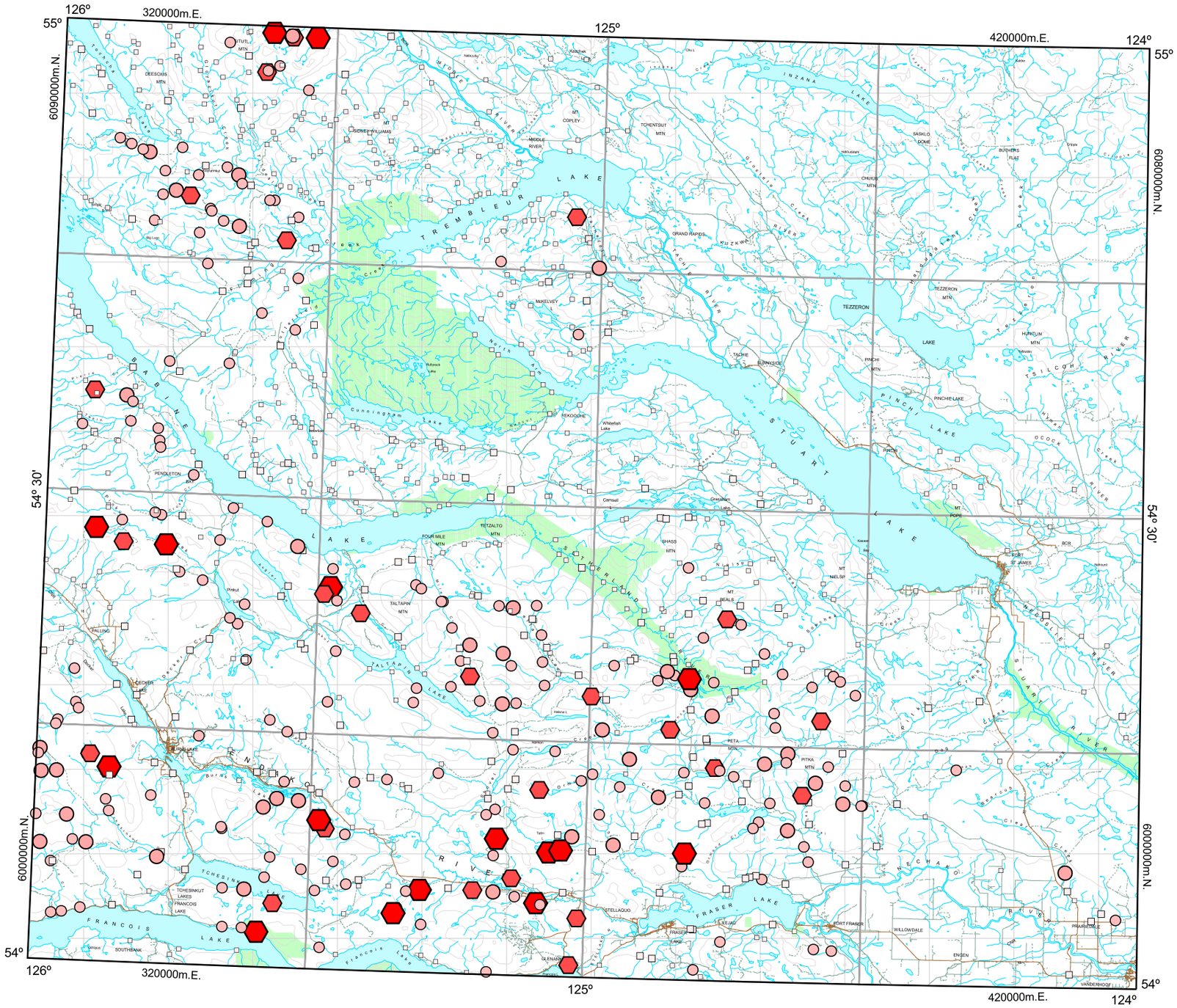
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STUART RIVER
NECHAKO RIVER
NECHAKO RIVER
SAILULUN RIVER
TSILCH RIVER
OSCOT RIVER
TALTAPIN RIVER
TCHESINKUT LAKES
FRANCOIS LAKE
FORT FRASER
FORT ST. JAMES
PRINCE GEORGE
VANDERHOOF
WILLOWDALE
ENGEN
PRAIRIEDALE
STELLAQUO
GLENANNAN
SOUTHBANK
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PINCHI LAKE
GRAND RAPIDS
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SASKLO BOWL
BUCHERS FLAT
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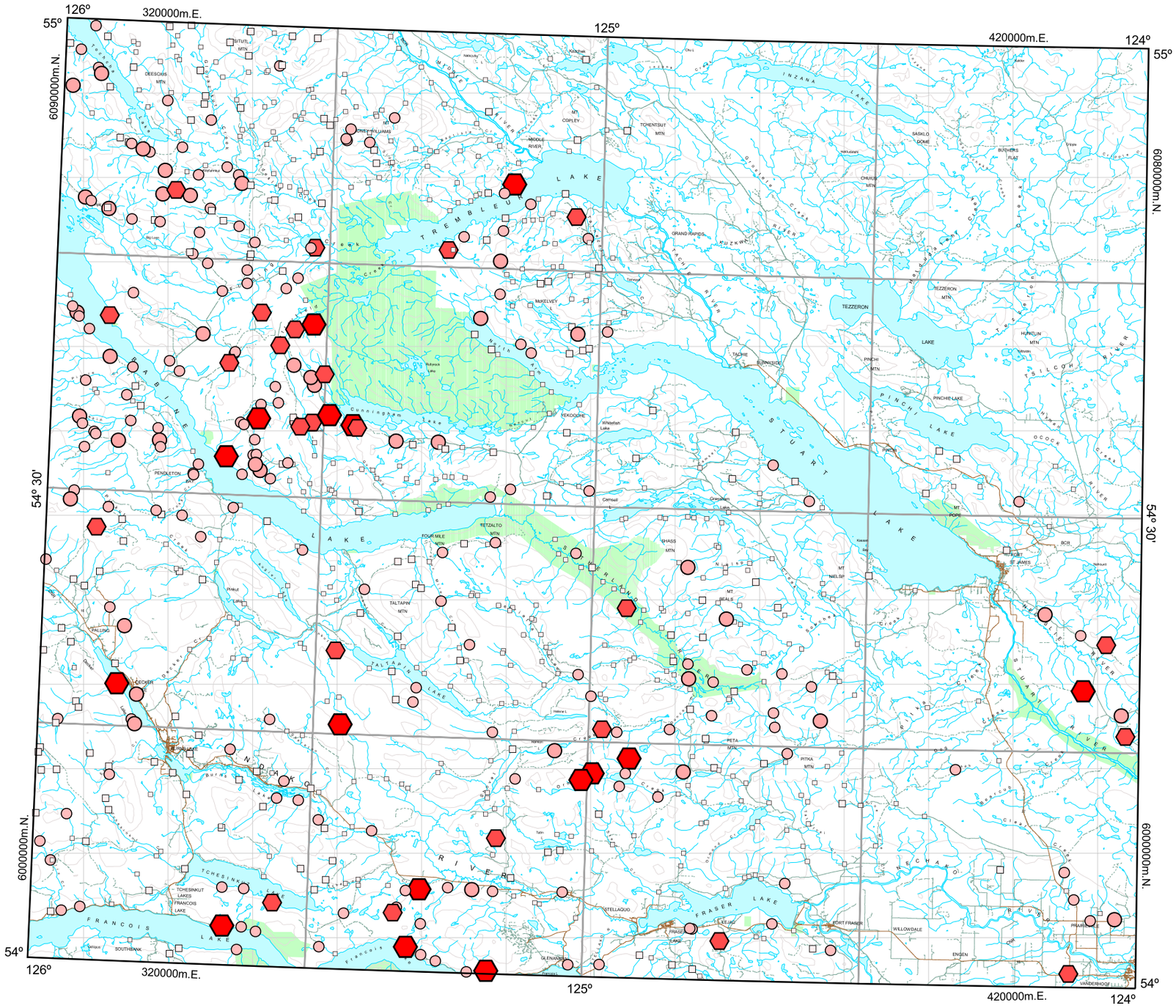

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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Lead by ICPMS

Stream Sediment

Concentration	(ppm)	Frequency
12.51 to 95.23		n = 16 (2.0%)
10.12 to 12.50		n = 24 (3.0%)
8.96 to 10.11		n = 39 (4.9%)
6.79 to 8.95		n = 159 (20.0%)
5.74 to 6.78		n = 158 (19.9%)
1.51 to 5.73		n = 399 (50.2%)

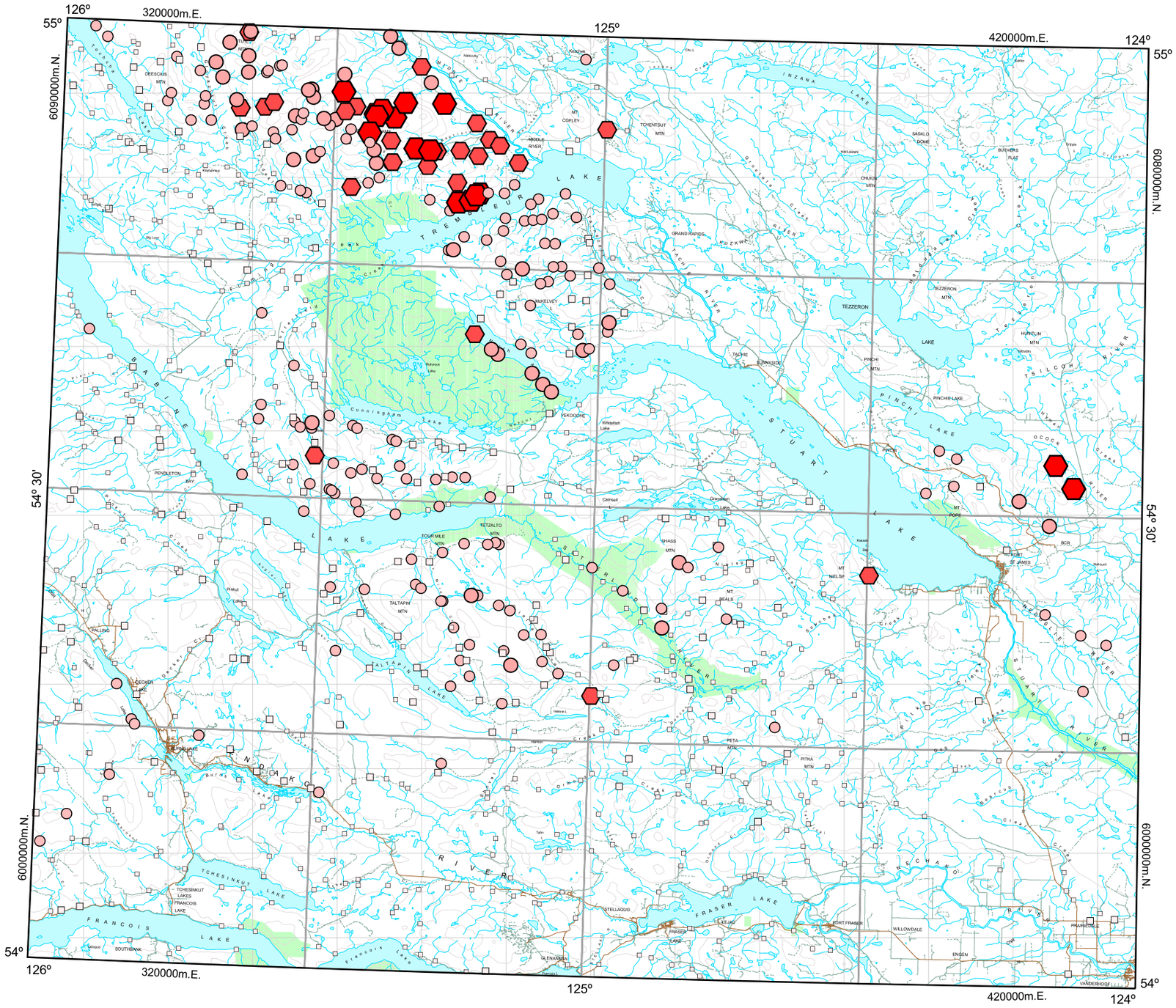
795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia

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



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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Magnesium by ICPMS

Stream Sediment

Concentration	(%)	Frequency
2.82 to 13.14		n = 16 (2.0%)
1.77 to 2.81		n = 24 (3.0%)
1.73 to 17.6		n = 39 (4.9%)
0.72 to 1.12		n = 153 (19.2%)
0.58 to 0.71		n = 147 (18.5%)
0.06 to 0.57		n = 416 (52.3%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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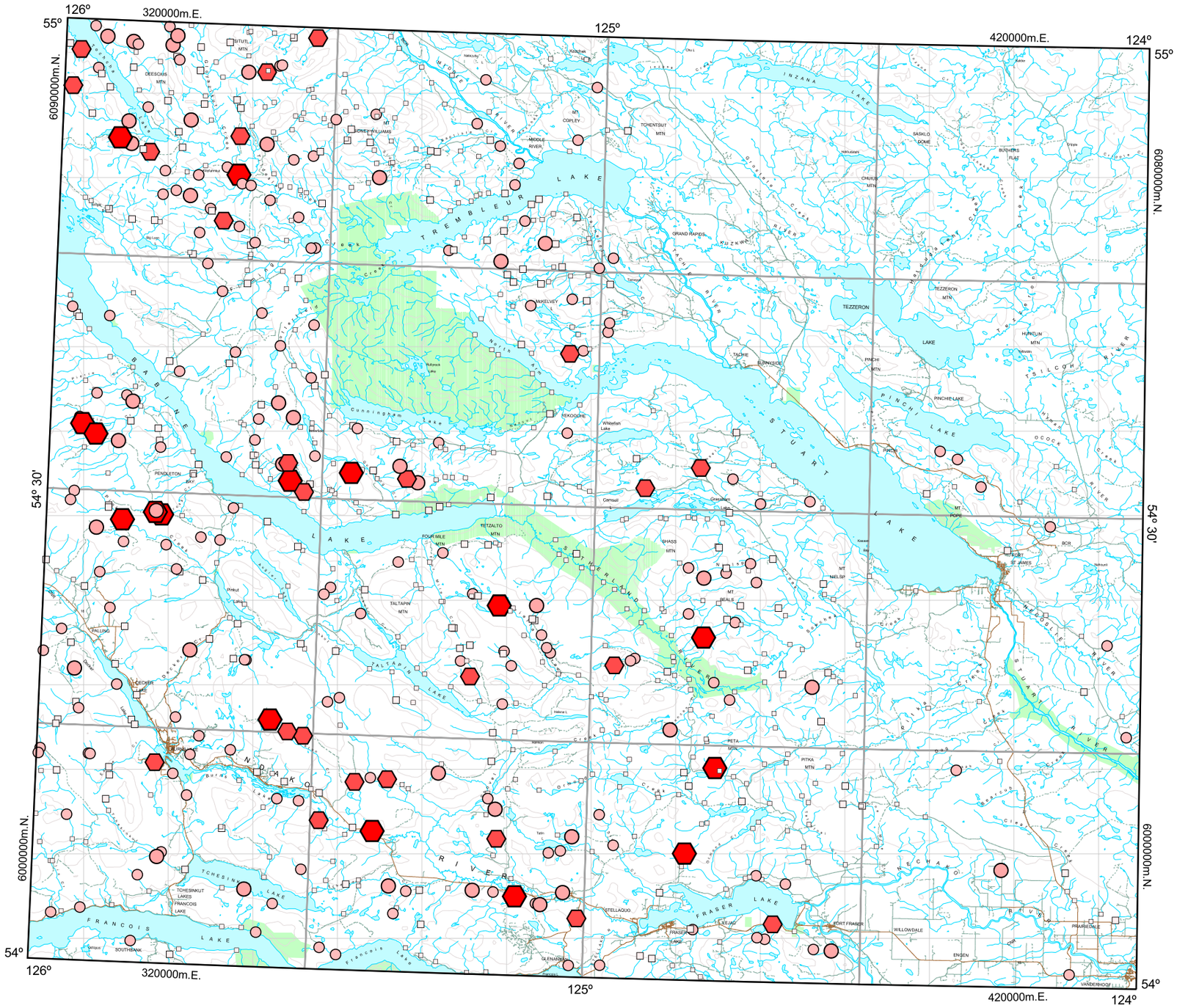
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STUART LAKE
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FRANCOIS LAKE
TEZZERON LAKE
PINCHI LAKE
TATLA LAKE
TAKLA LAKE
NAZKO RIVER
STUART RIVER
FRASER RIVER
NECHAKO RIVER
BABINE LAKE
FORT FRASER
FORT ST. JAMES
VANDERHOOF
PRAFIERDALE
WILLOWDALE
ENGEN
STELLAQUO
GLENANNAN
TEZZERON
PINCHI LAKE
TAKLA LAKE
TATLA LAKE
TCHESINKUT LAKE
FRANCOIS LAKE
PENDLETON BAY
LECKIE LAKE
FALLING LAKE
Burns Lake
Cunningham Lake
Whitefish Lake
Cousins Lake
Grassham Lake
Kuzkwa Lake
Tachie Lake
Pinchi Lake
Tezzeron Lake
Takla Lake
Tatla Lake
Francois Lake
Fraser Lake
Stuart Lake
Trembleur Lake
Babine Lake
Nechako River
Stuart River
Fraser River
Nazko River
Tsilcoh River
Ocock River
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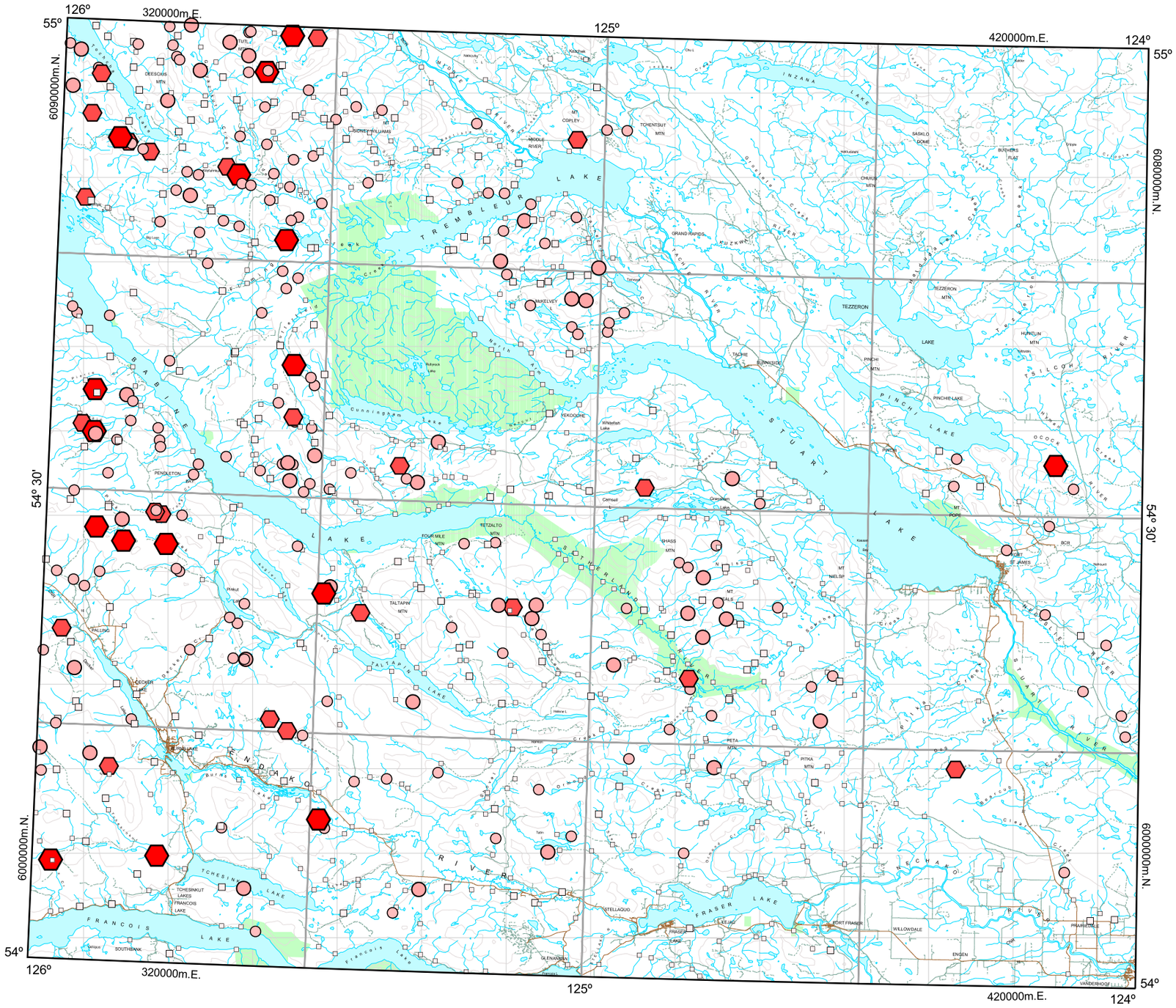
Tremble



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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Mercury by ICPMS

Stream Sediment

Concentration (ppb)	Frequency
136 to 853	n = 16 (2.0%)
109 to 135	n = 22 (2.8%)
89 to 108	n = 41 (5.2%)
53 to 88	n = 150 (18.9%)
40 to 52	n = 159 (20.0%)
5 to 39	n = 407 (51.2%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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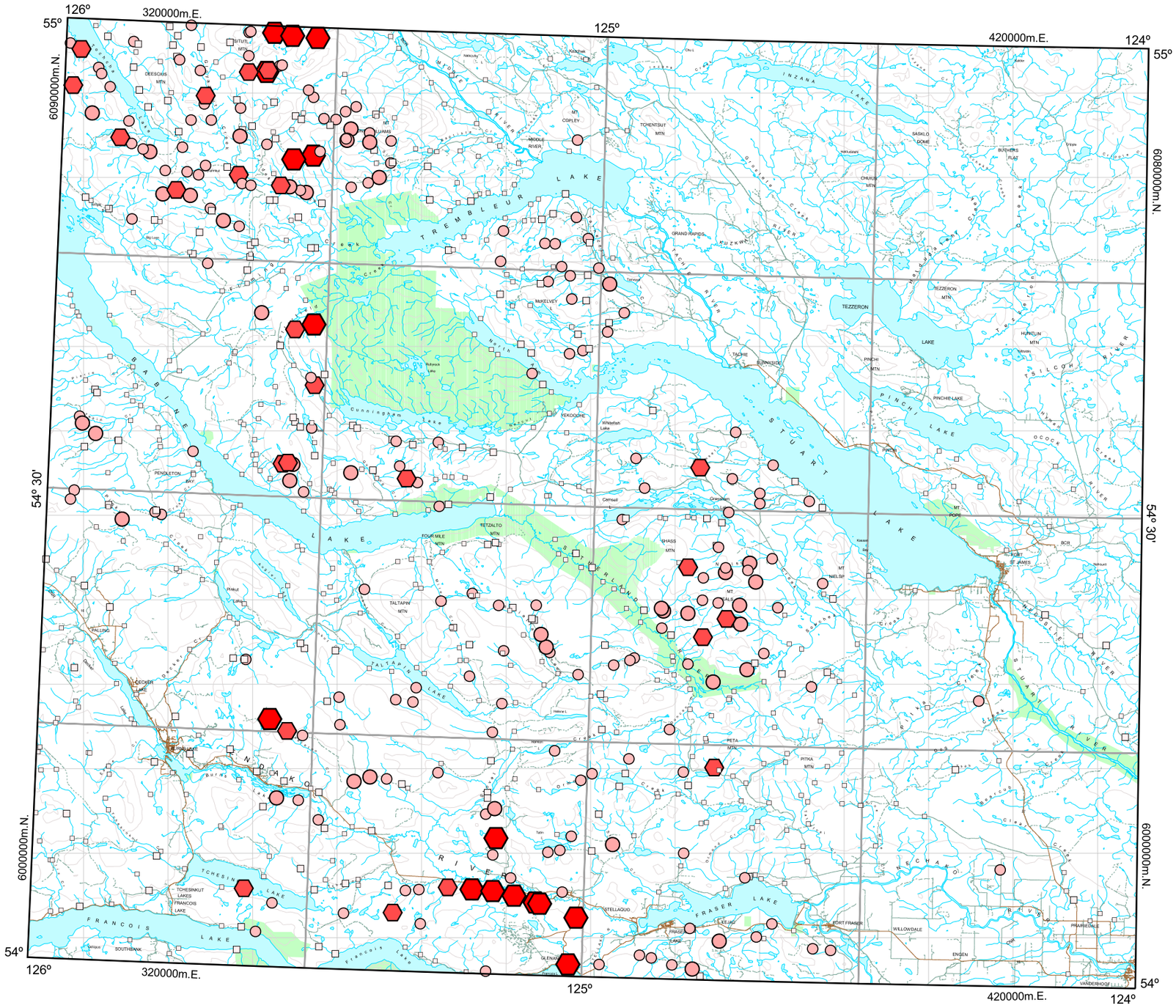
Ministry of Energy and Mines
Energy and Minerals Division
Geological Survey Branch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TEZZERON LAKE
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STUART RIVER
NECHAKO RIVER
FRASER RIVER
BABINE LAKE
INZANA LAKE
TEZZERON
PINCHI LAKE
FORT FRASER
FORT ST. JAMES
VANDERHOOF
WILLOWDALE
PRAIRIEDALE
ENGEN
STELLAQUO
GLENAY
SOUTHBANK
TOMETSIN LAKE
TALTAPIN LAKE
TETZALTO MTN
FOUR MILE MTN
TALTAPIN MTN
PENDLETON BAY
MIDDLE RIVER
GRAND RAPIDS
MAKELVEY
YEKOOCHE
Whitefish Lake
Cunningham Lake
Cemetery
Graveyard
TACHE
BURNSIDE
PINCHI
PINCHI LAKE
MT POPE
MT NEILSEN
SHASS MTN
PETA MTN
PITKA MTN
TOMENTSUT MTN
MT COPLEY
DEESCUS MTN
SASKLO BONE
BUCHERS FLAT
CHURUS MTN
HUNCLUN MTN
TEZZERON MTN
LECKIE LAKE
TALLING
Pinkut Lake
Fraser Lake
Francois Lake
Tsecha Lake
Tsecha River
Nechako River
Stuart River
Tsilcoh River
Ocock River
Kuzkwa River
Tachie River
Middle River
Cunningham Creek
Pendleton Bay
Tetzalto Creek
Taltapin Creek
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Francois Lake
Stellaquo Creek
Fraser Lake
Fraser River
Nechako River
Stuart River
Tsilcoh River
Ocock River
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Pinchi Creek
Tachie River
Kuzkwa River
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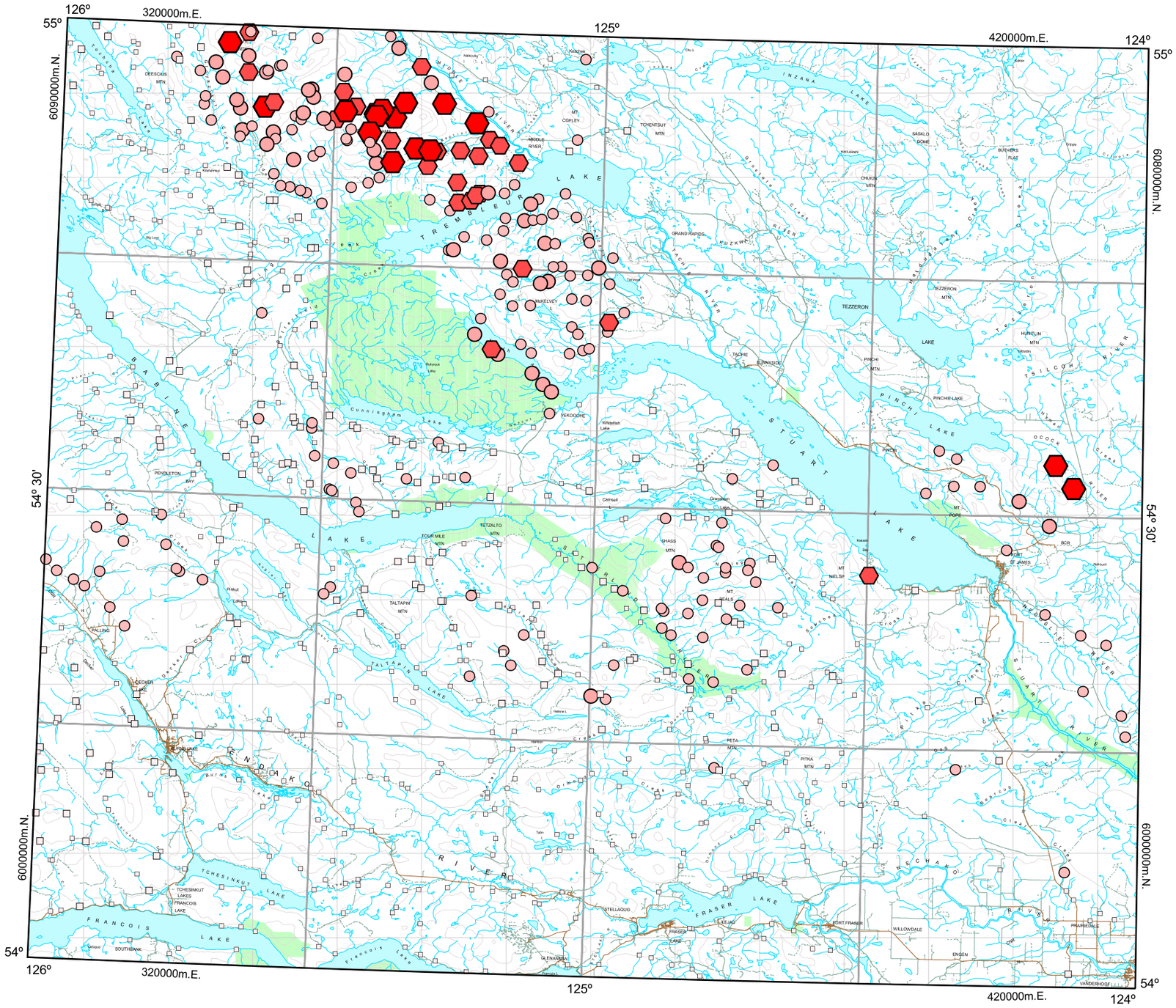
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FULTON
GRAND RAPIDS
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BABINE LAKE
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MT COPLEY
DEESCUS MTN
SASKLO BOWL
BUCHERS FLAT
TOHESINKUT LAKES
FRANCOIS LAKE
SOUTHBANK
Cottage
Francois Lake
Tachie
Fulton
Tezzeron
Pinchi
Takla
Tsilcoh River
Ogock Creek
Nyland Creek
Nechako River
Stuart River
Fraser River
Tchesinkut Lake
Tchesinkut River
Middle River
Kuzkwa River
Grassland Creek
Tezzeron Creek
Pinchi Creek
Takla Landing
Fraser Lake
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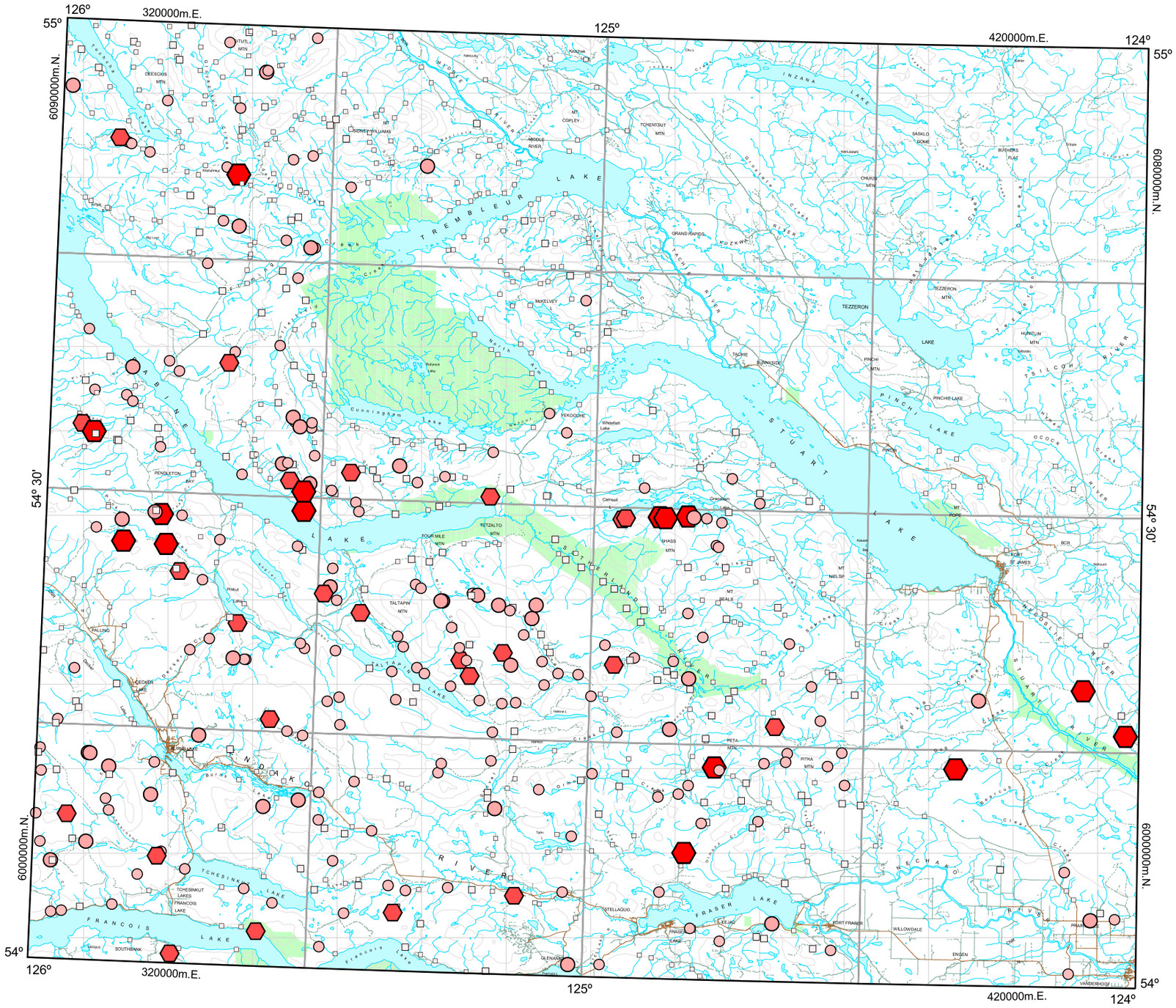
Vanderhoof
Prafierdale
Willowdale
Engen
Fort Fraser
Fort St. James
Pendleton Bay
Cunningham Lake
Whitefish Lake



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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Phosphorus by ICPMS

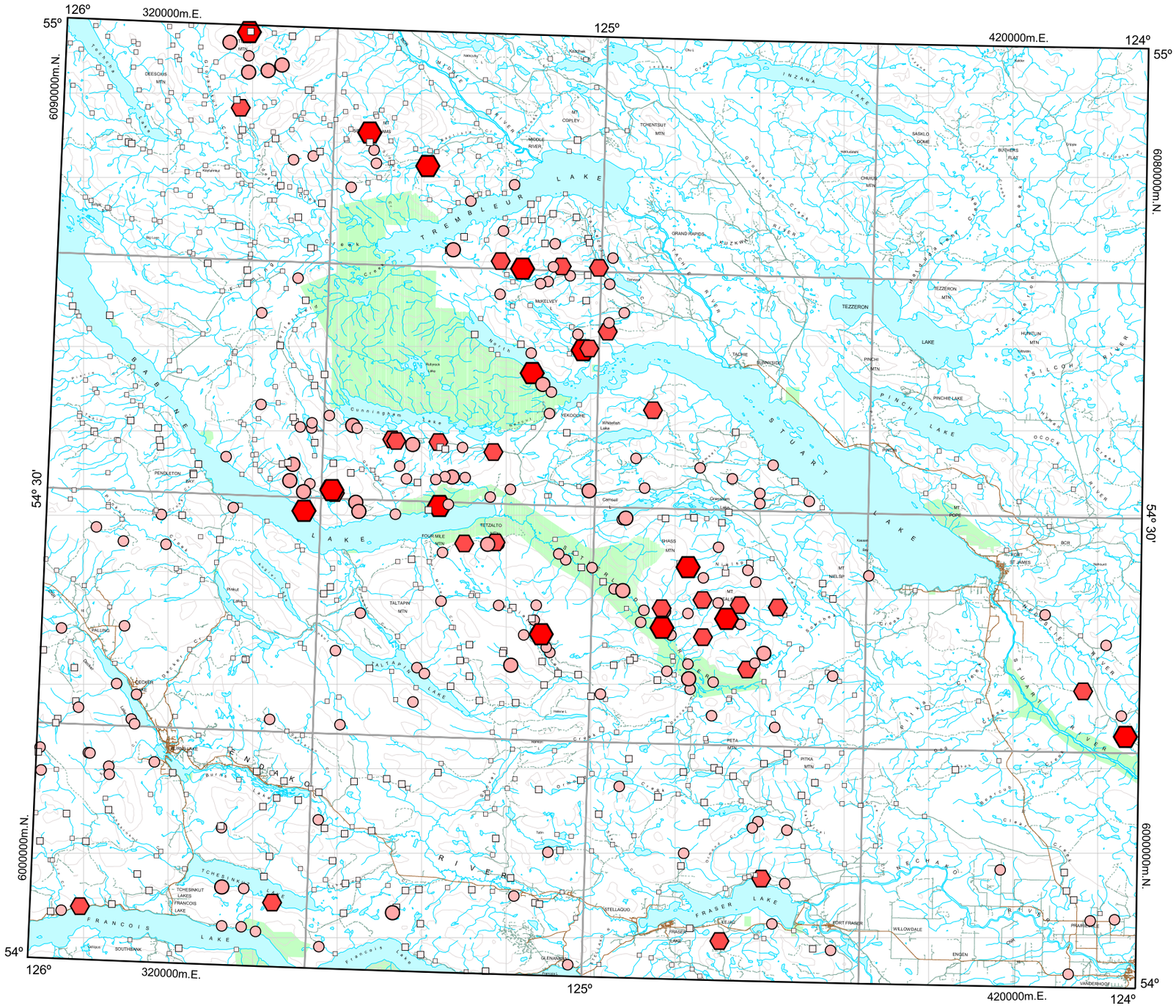
Stream Sediment

Concentration	(%)	Frequency
0.168 to 0.303	⬢	n = 15 (1.9%)
0.147 to 0.167	⬢	n = 24 (3.0%)
0.131 to 0.146	●	n = 39 (4.9%)
0.107 to 0.130	●	n = 155 (19.5%)
0.091 to 0.106	□	n = 162 (20.4%)
0.027 to 0.090	▫	n = 400 (50.3%)

795 Sample Sites

Natural Resources Canada Ressources naturelle Canada
Canada

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



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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Potassium by ICPMS

Stream Sediment

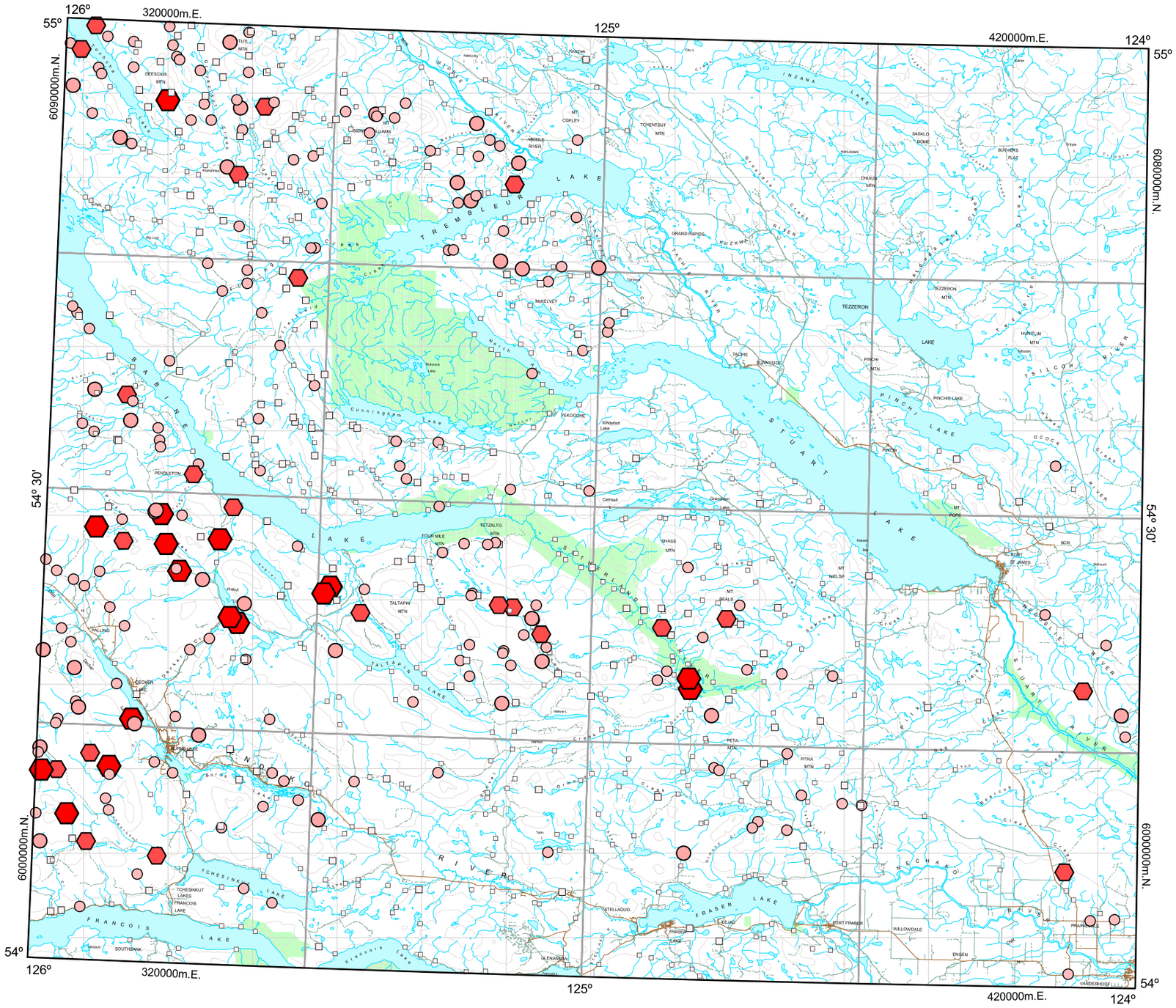
Concentration	(%)	Frequency
0.20 to 0.46		n = 14 (1.8%)
0.16 to 0.19		n = 26 (3.3%)
0.14 to 0.15		n = 24 (3.0%)
0.10 to 0.13		n = 139 (17.5%)
0.08 to 0.09		n = 169 (21.3%)
0.02 to 0.07		n = 423 (53.2%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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



GSC Open File 1766
BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Scandium by ICPMS

Stream Sediment

Concentration	(ppm)	Frequency
8.81 to 13.70		n = 16 (2.0%)
8.01 to 8.80		n = 22 (2.8%)
7.20 to 8.00		n = 34 (4.3%)
5.41 to 7.20		n = 161 (20.3%)
4.61 to 5.40		n = 150 (18.9%)
1.20 to 4.60		n = 412 (51.8%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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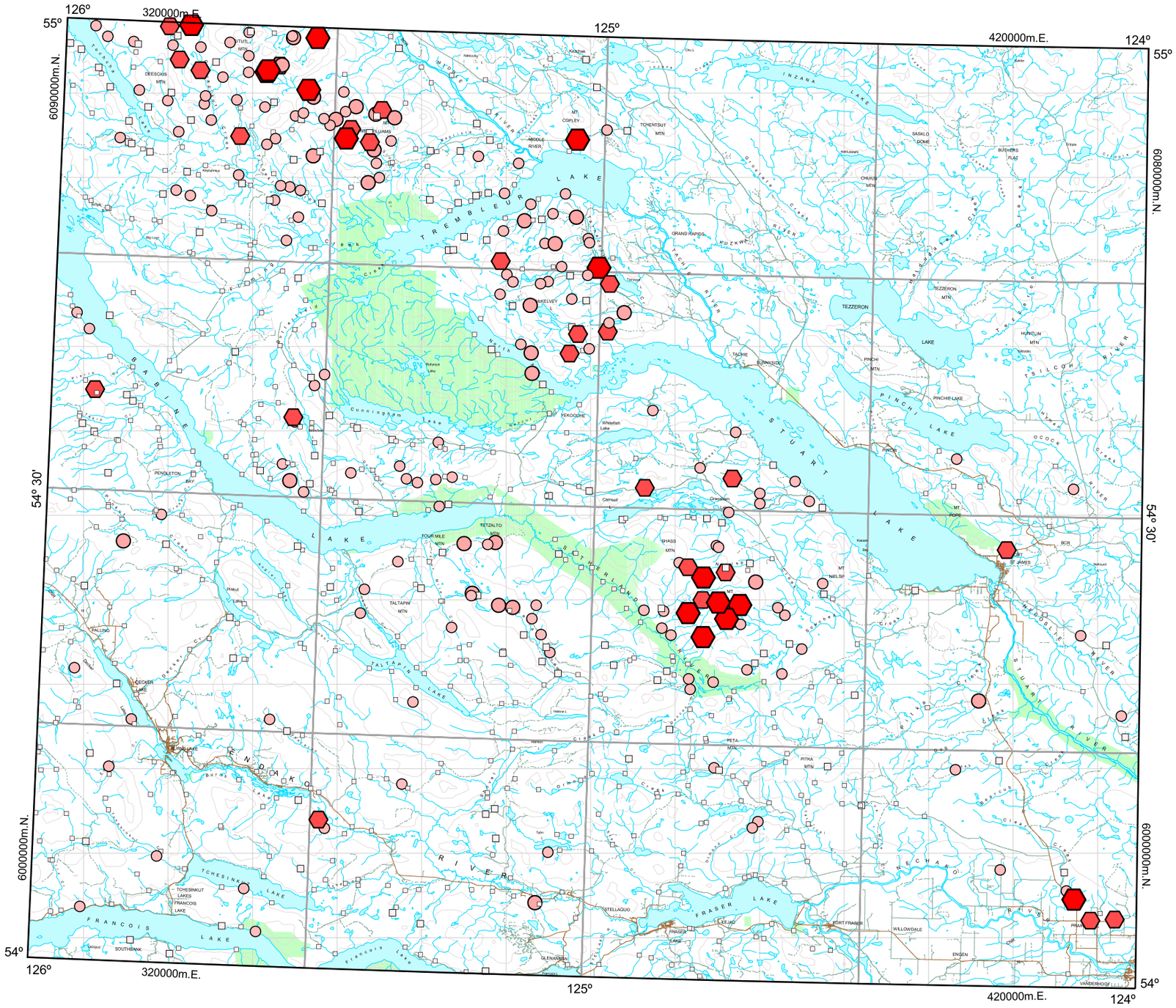
Ministry of Energy and Mines
Energy and Minerals Division
Geological Survey Branch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FRANCOIS LAKE
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NECHAKO RIVER
TEZZERON LAKE
PINCHI LAKE
TSITSUTA RIVER
OSCOT RIVER
INZANA LAKE
BABINE LAKE
TCHESINKUT LAKE
TALTAPIN LAKE
FORT FRASER
WILLOWDALE
ENGEN
PRAIRIE
VANDERHOOF
STELLAQUO
GLENAVON
SOUTHBANK
TEZZERON
PINCHI LAKE
ST JAMES
GRAND RAPIDS
TACHE
FOUR MILE MTN
TETZALTO MTN
TALTAPIN MTN
SHASS MTN
PETA MTN
PITKA MTN
NEILSIP
COPLEY
TOHENTBUT MTN
DEESCUS MTN
TEZZERON MTN
HUNCLUN MTN
PINCHI MTN
CHUTOS MTN
SASKLO BOWL
BUCHERS FLAT
PENDLETON BAY
YEKOOCHE
Whitefish Lake
Cunningham Lake
Cameron
Grassmann
MT POPE
MT NEILSIP
MIDDLE RIVER
KIZKHAR
Nakoulay
Chu L
Kaster
Tacheeda
Tachie River
Kuzkwa
Tsitsutsa Bay
Tsitsutsa River
Pinchi Lake
Pinchi
Pinchi River
Ocock Creek
Ocock River
Nechako River
Stellaquo
Fraser Lake
Fraser River
Francois Lake
Tchesinkut Lake
Tchesinkut Lake
Francois Lake
Southbank
Tatlo Lake
Tatlo
Cunningham Lake
Pendleton Bay
Pinkut Lake
Pinkut
Fallung
Decker Lake
Burns Lake
Burns
Tahtanim River
Tahtanim
Tsitsutsa River
Tsitsutsa
Nechako River
Nechako
Stuart River
Stuart
Nadina River
Nadina
Francois Lake
Francois
Cunningham Lake
Cunningham
Tachie River
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Pinchi Lake
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Pinchi River
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Ocock Creek
Ocock
Ocock River
Ocock
Tsitsutsa River
Tsitsutsa
Tsitsutsa Bay
Tsitsutsa
Inzana Lake
Inzana
Grassmann Creek
Grassmann
Cameron Creek
Cameron
Middle River
Middle
Copley Creek
Copley
Tremblay Creek
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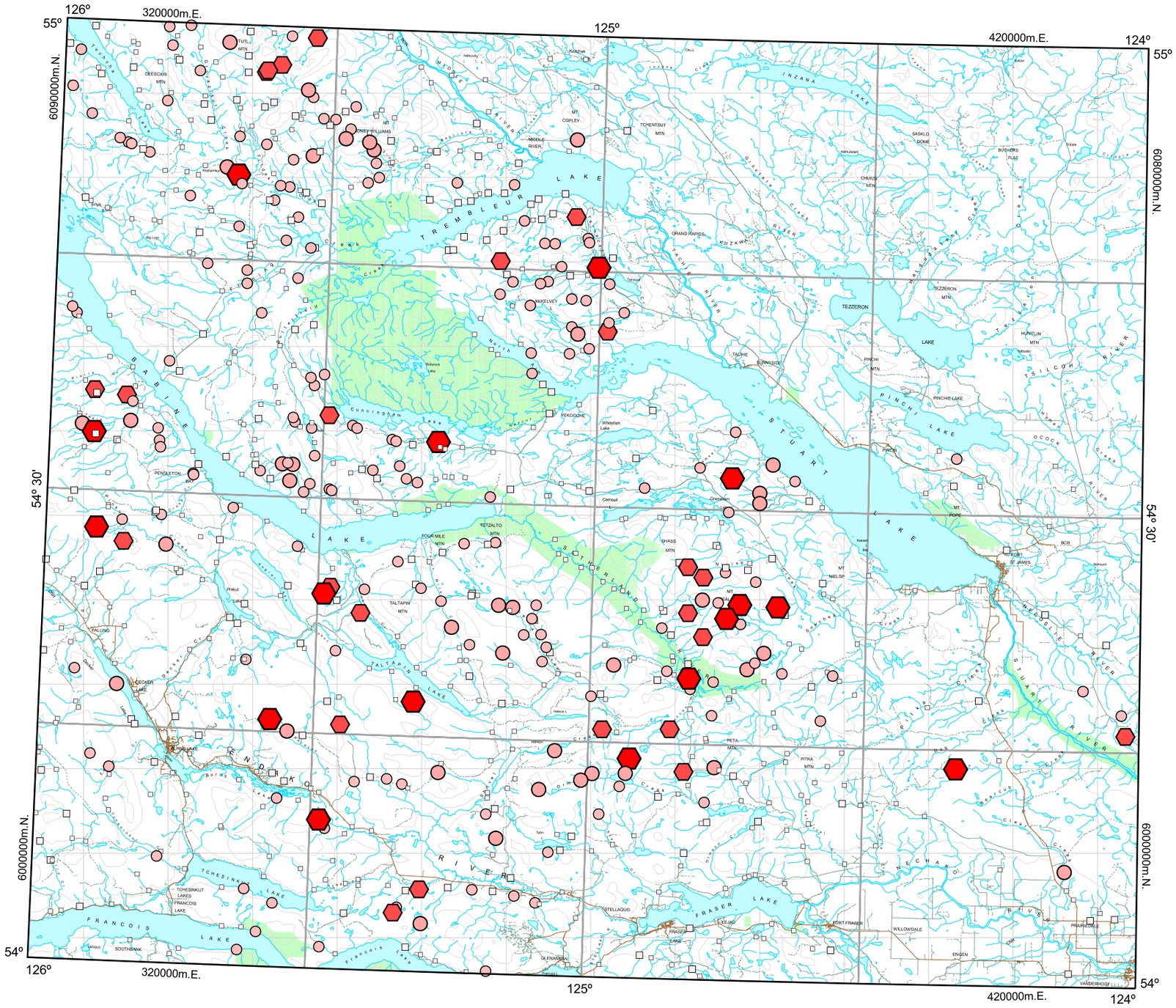
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TCHESINKUT LAKE
BABINE LAKE
INZANA LAKE
FRASER RIVER
STUART RIVER
NECHAKO RIVER
NAZKO RIVER
TACHE RIVER
TSILCOH RIVER
OCOCK RIVER
NEDOLE RIVER
MIDDLE RIVER
FORT FRASER
FORT ST. JAMES
VANDERHOOF
PRINCE GEORGE
PINCHI LAKE
TEZZERON
GRAND RAPIDS
MIKELVEY
PENDLETON
TETZALTO MTN
TALTAPIN MTN
FOUR MILE MTN
GRASMERE
STELLAQUO
WILLOWDALE
ENGEN
PRAIRIEDALE
GLENAVON
SOUTHBANK
TCHESINKUT LAKES
FRANCOIS LAKE
DEECOUS MTN
TOHENTBUT MTN
COPLEY
SASKLO BOWL
BUCHERS FLAT
CHUTOS MTN
HUNCLUN MTN
PINCHI MTN
TACHE
EUNNIDIS
YEKOOCHE
Whitefish Lake
Cunningham Lake
Cameron
Grassman
SHASS MTN
MT NELSIE
MT POPE
PETA MTN
PITKA MTN
BCR
Kwaxwil
Nakwatto
Nakoluck
Kuzkwa
Tachie
Tsilcoh
Pinchi
Ocock
Nedole
Stuart
Nechako
Nazko
Tatalima
Taltapin
Francois
Tchesinkut
Fraser
TremblEur
Inzana
Babine
Middle
Cunningham
Cameron
Grassman
Kwaxwil
Nakwatto
Nakoluck
Kuzkwa
Tachie
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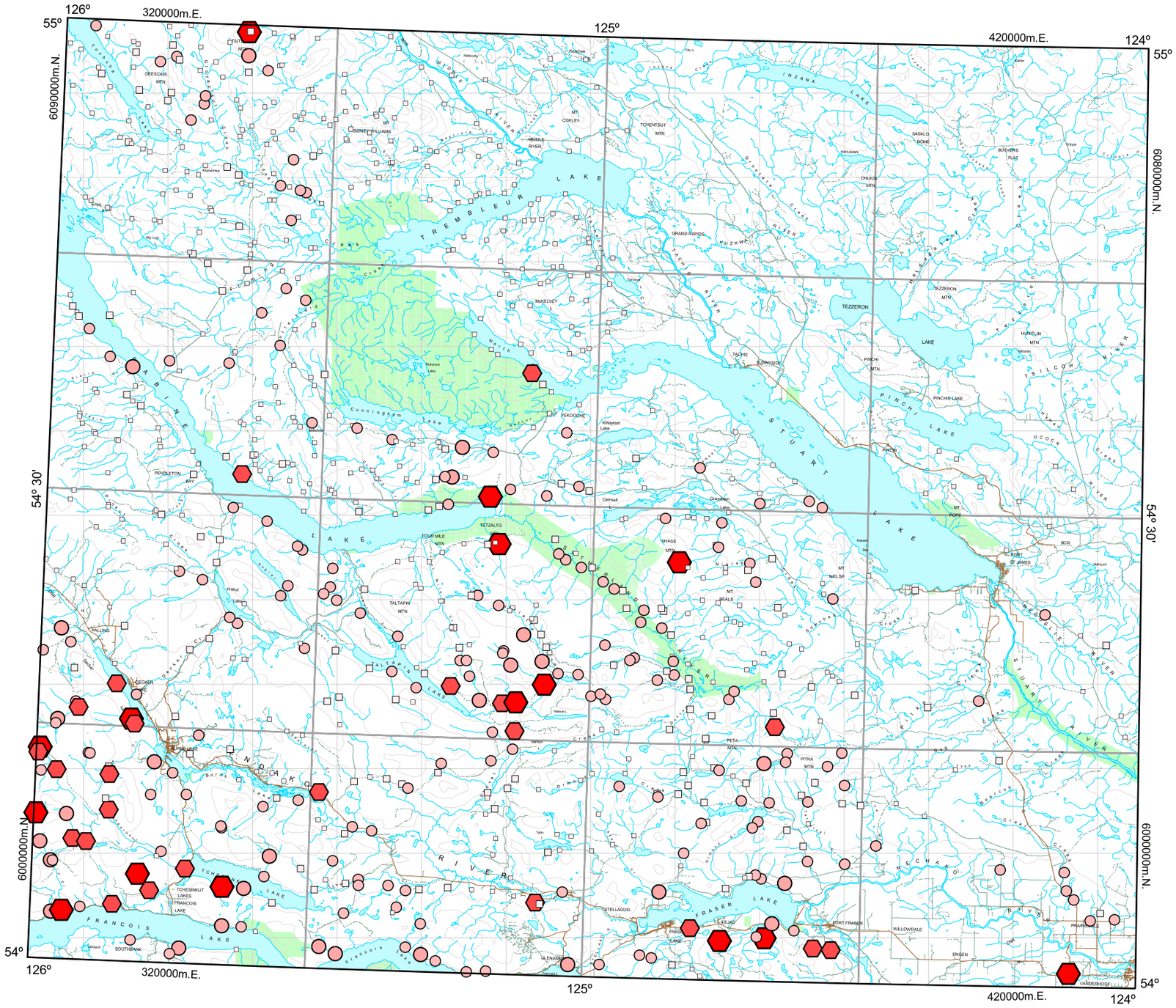

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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Sodium by ICPMS

Stream Sediment

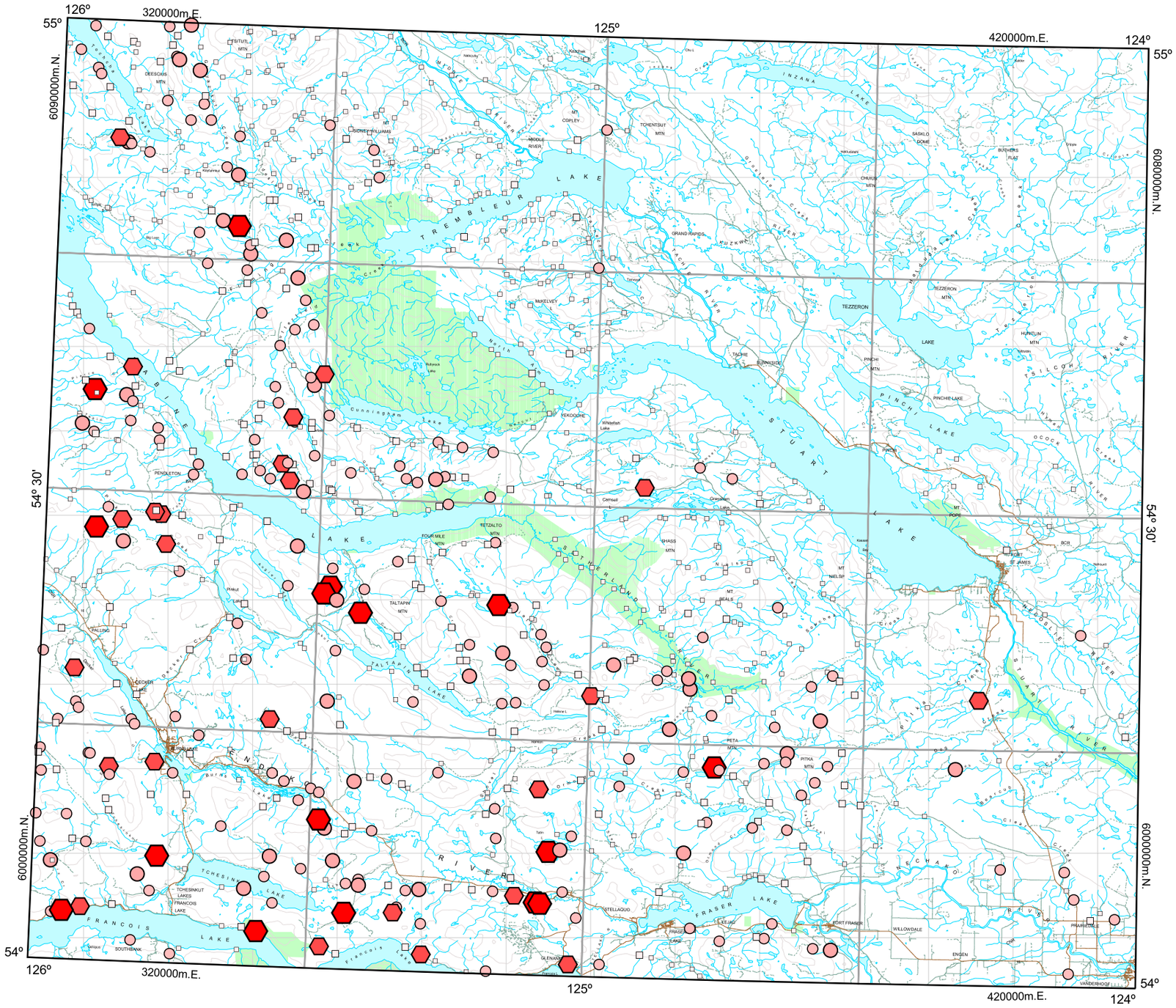
Concentration	(%)	Frequency
0.027 to 0.052		n = 15 (1.9%)
0.022 to 0.026		n = 23 (2.9%)
0.200 to 0.021		n = 27 (3.4%)
0.015 to 0.019		n = 164 (20.6%)
0.013 to 0.014		n = 127 (16.0%)
<0.005 to 0.012		n = 439 (55.2%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
Ministry of Energy and Mines
Energy and Minerals Division
Geological Survey Branch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FORT ST. JAMES
VANDERHOOF
PRINCE GEORGE
TEZZERON
PINCHI
TACHE
GRAND RAPIDS
MIDDLE RIVER
MIDDLE RIVER
TOMENTBUT MTN
SASKLO BOWL
BUCHERS FLAT
CHURUS MTN
TEZZERON MTN
HUNCLUN MTN
PINCHI MTN
PINCHI LAKE
MT POPE
MT NELSIE
MT BEALS
PETA MTN
PITKA MTN
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SOUTHBANK
STELLAQUO
GLENANNAN
WILLOWDALE
ENGEN
PRAIRIEDALE
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NECHAKO RIVER
TSILCOH RIVER
OGDEN RIVER
PENDLETON
FALLING
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Cemetery
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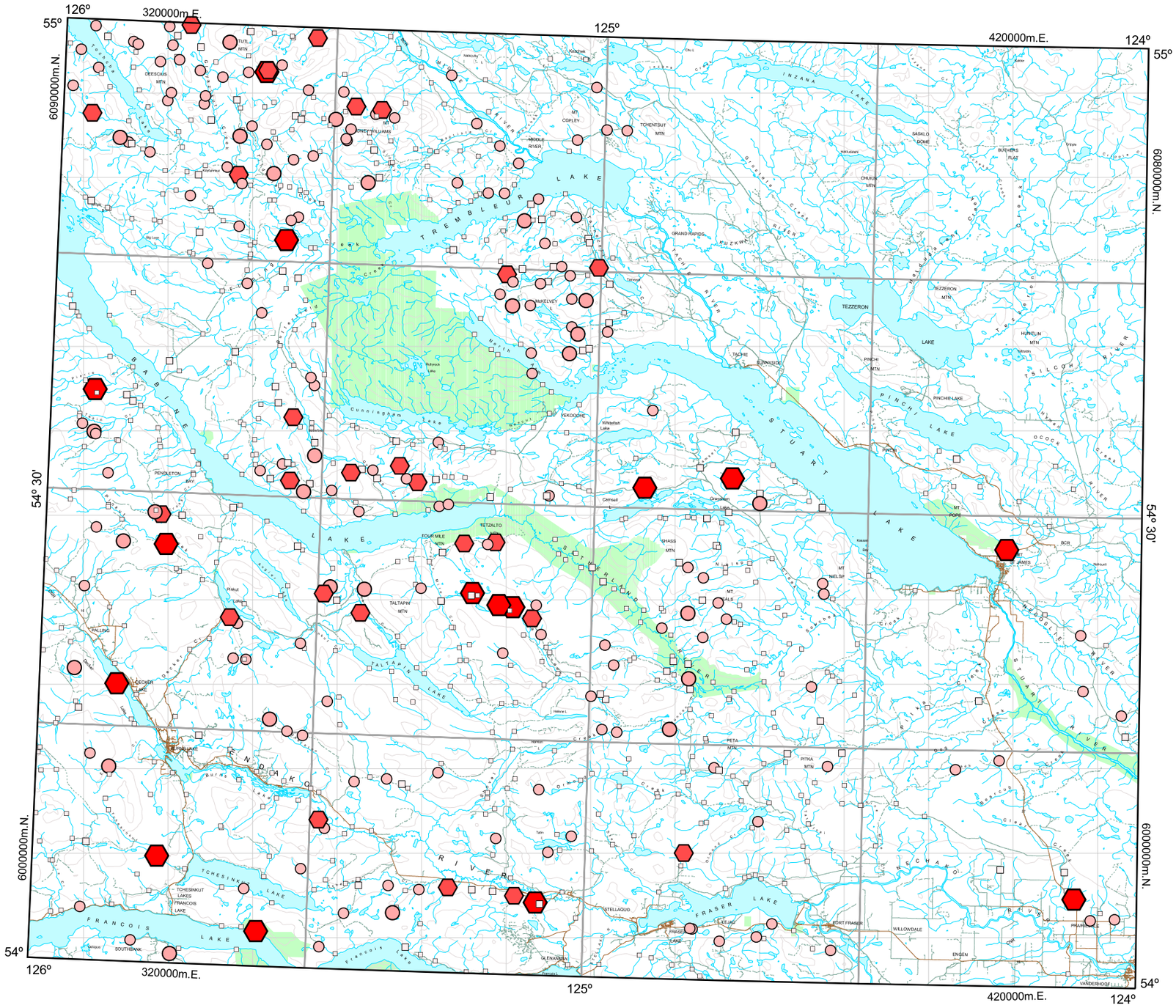
Kwaxwa Lake
Kwaxwa Creek
Kwaxwa River



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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Sulphur by ICPMS

Stream Sediment

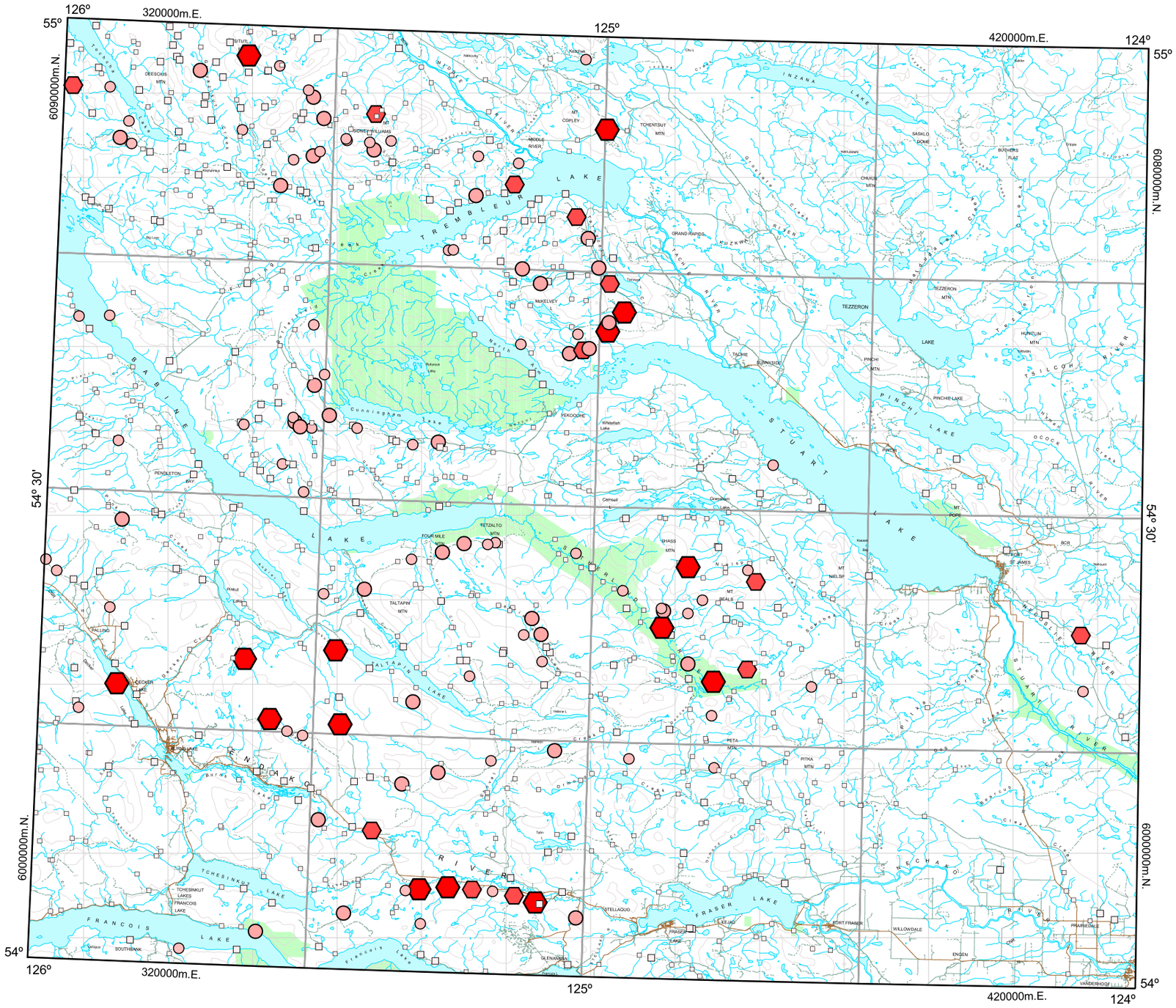
Concentration	(%)	Frequency
0.14 to 0.38		n = 15 (1.9%)
0.11 to 0.13		n = 25 (3.1%)
0.09 to 0.10		n = 27 (3.4%)
0.05 to 0.08		n = 142 (17.9%)
0.04 to 0.04		n = 89 (11.2%)
<0.01 to 0.03		n = 497 (62.5%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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



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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Tellurium by ICPMS

Stream Sediment

Concentration (ppm)	Frequency
0.07 to 0.23	n = 15 (1.9%)
0.06 to 0.06	n = 12 (1.5%)
0.05 to 0.05	n = 36 (4.5%)
0.04 to 0.04	n = 61 (7.7%)
0.03 to 0.03	n = 170 (21.4%)
<0.02 to 0.02	n = 501 (63.0%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
Ministry of Energy and Mines
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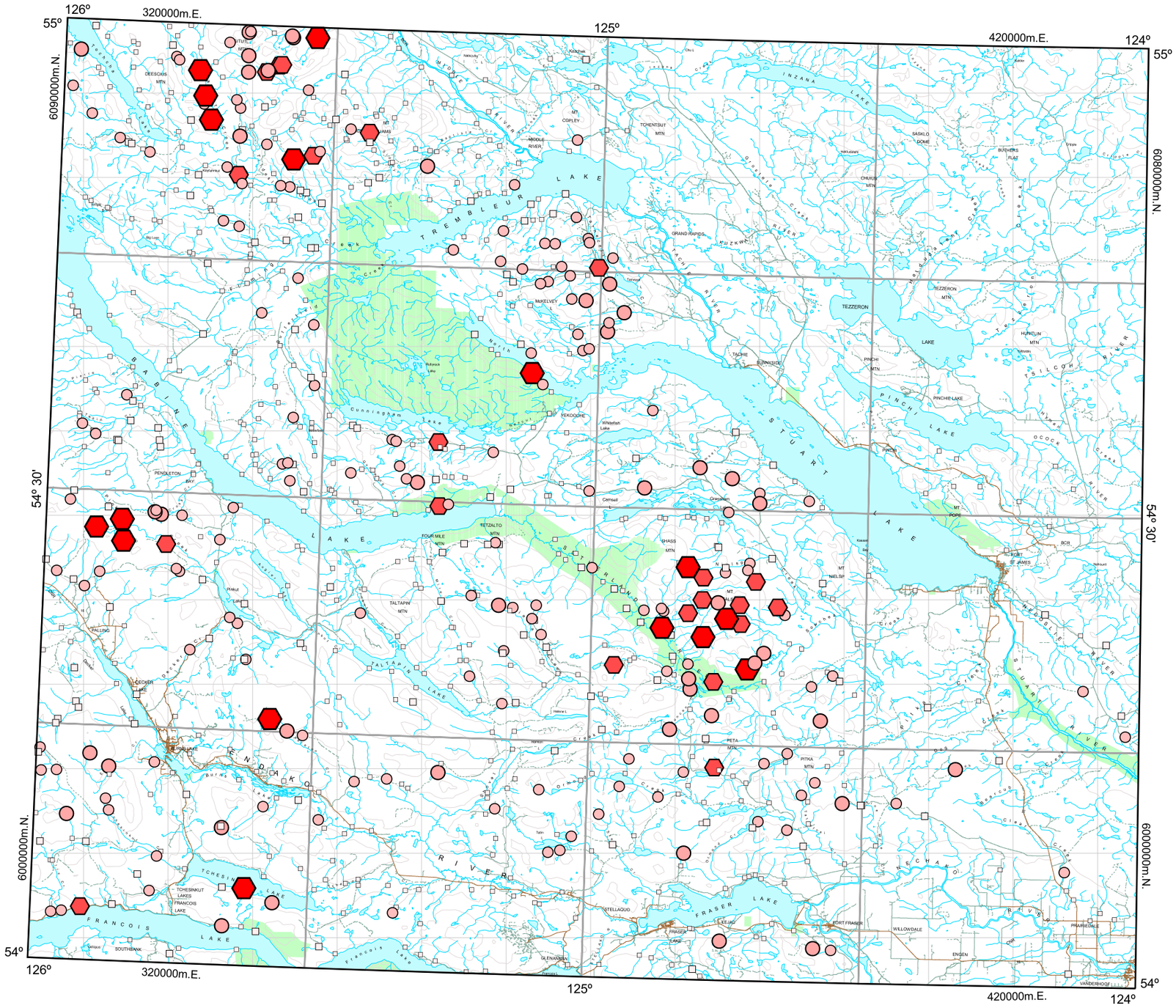
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FORT ST. JAMES
VANDERHOOF
PRAFIERDALE
WILLOWDALE
ENGEN
STELLAQUO
GLENANNAN
SOUTHBANK
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PITKA MTN
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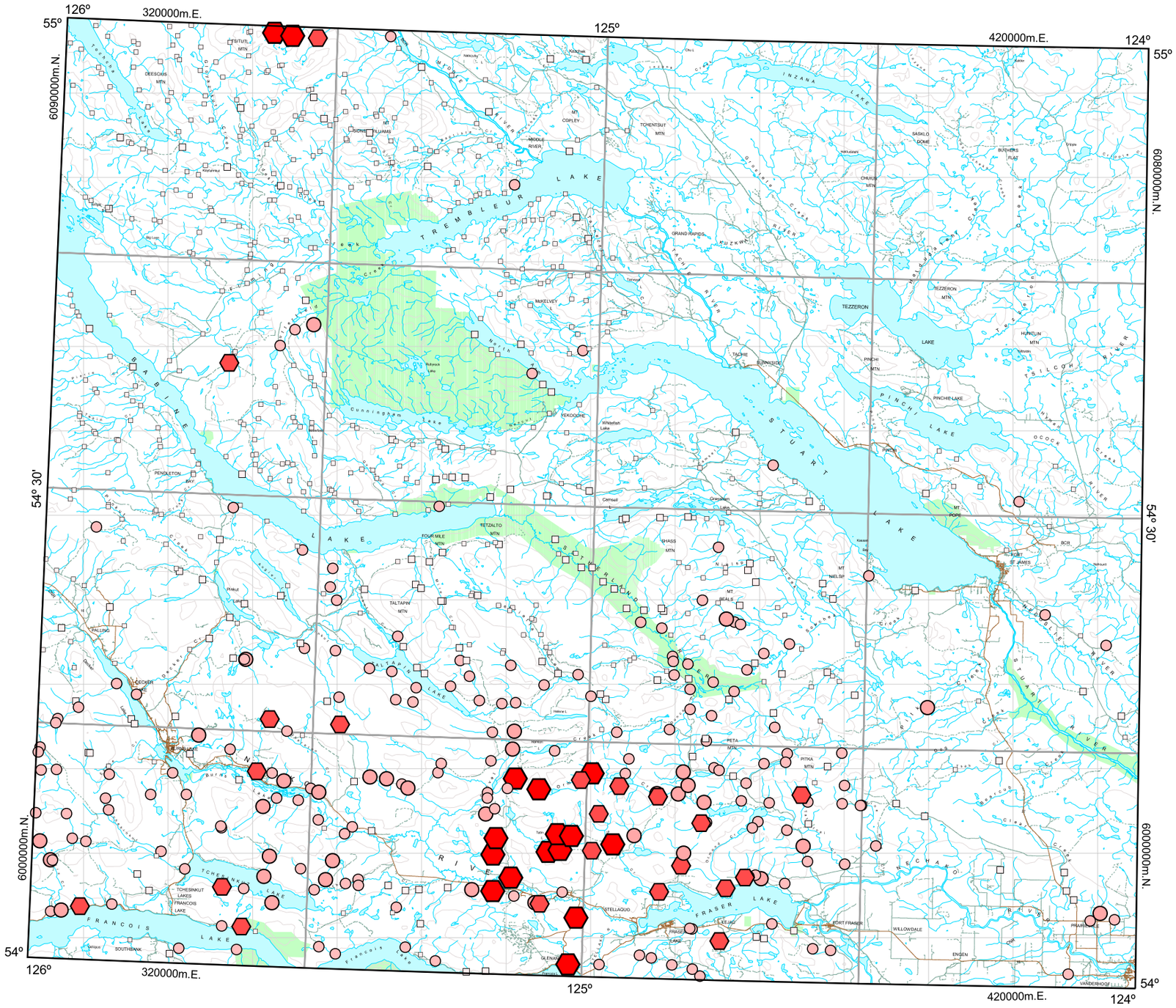
MIKELVEY
GRAND RAPIDS
TACHE
TACHE RIVER
TSILCH RIVER
OSCOK CREEK
PINCHI LAKE
PINCHI LAKE
BURNS LAKE
DECKER LAKE
PENDLETON BAY
Cunningham Lake
Whitefish Lake
Cemetery
Graveyard
Kwaxwil
Kwaxwil Bay
Kwaxwil Creek
Kwaxwil River
Kwaxwil Lake
Kwaxwil Mtn
Kwaxwil Cr
Kwaxwil Rv
Kwaxwil Lk
Kwaxwil Mt
Kwaxwil Bay



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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Thorium by ICPMS

Stream Sediment

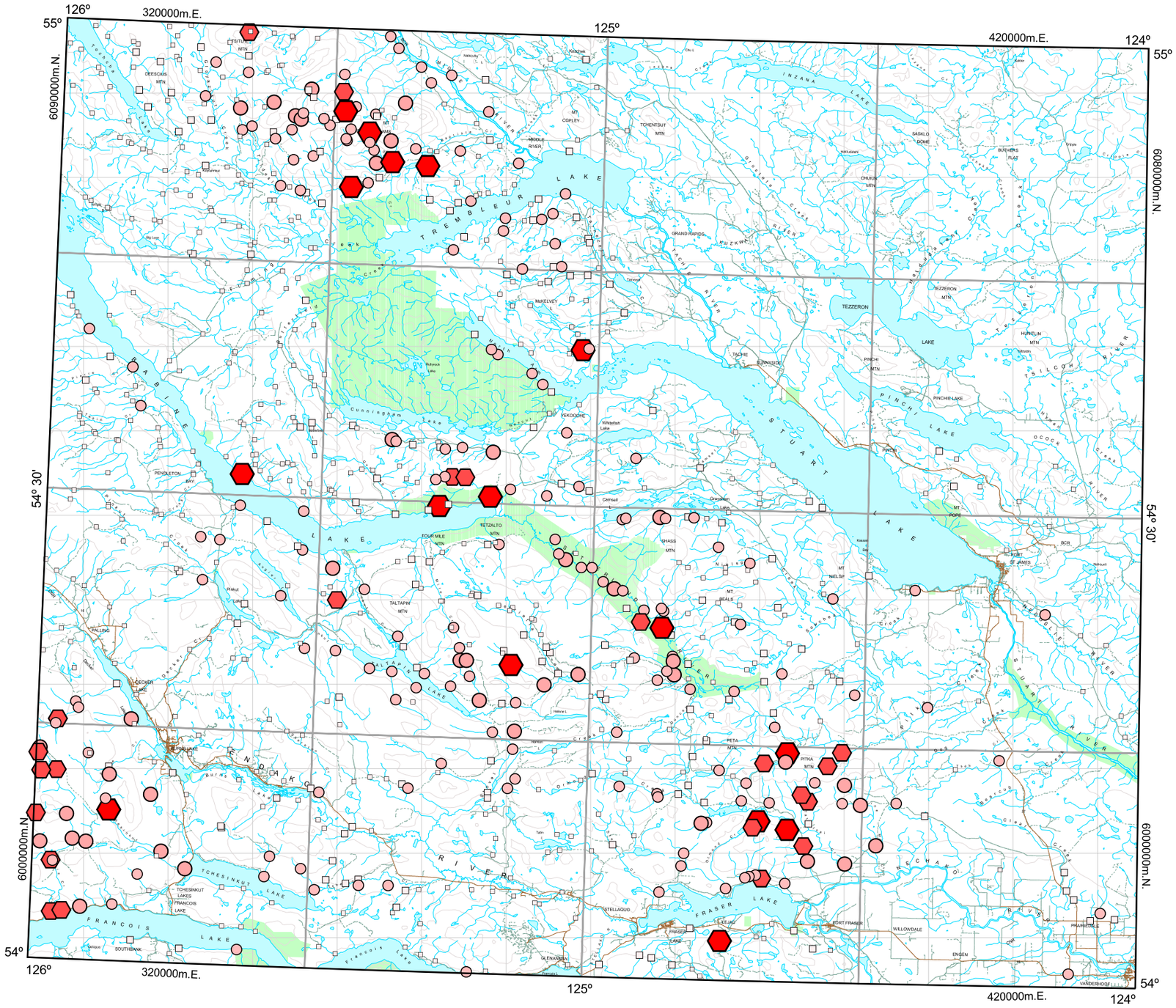
Concentration (ppm)	Frequency
4.9 to 11.8	n = 16 (2.0%)
3.3 to 4.8	n = 22 (2.8%)
2.7 to 3.2	n = 34 (4.3%)
1.8 to 2.6	n = 161 (20.3%)
1.4 to 1.7	n = 134 (16.9%)
0.2 to 1.3	n = 428 (53.8%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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



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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Titanium by ICPMS

Stream Sediment

Concentration	(%)	Frequency
0.112 to 0.168		n = 16 (2.0%)
0.101 to 0.111		n = 23 (2.9%)
0.087 to 0.100		n = 40 (5.0%)
0.065 to 0.086		n = 158 (19.9%)
0.052 to 0.064		n = 150 (18.9%)
0.003 to 0.051		n = 408 (51.3%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
Ministry of Energy and Mines
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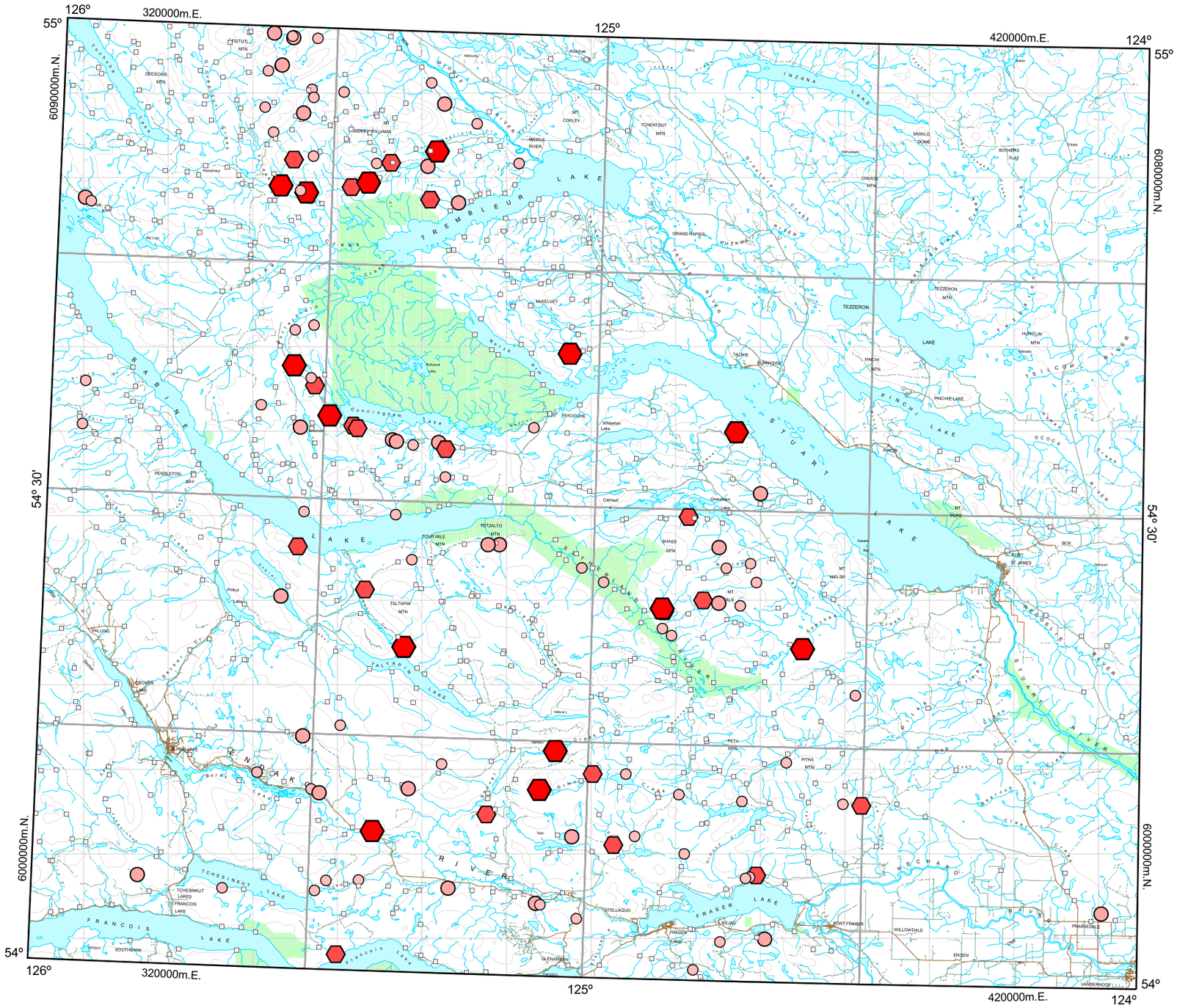

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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Tungsten by ICPMS

Stream Sediment

Concentration	(ppm)	Frequency
0.6 to 2.8		n = 14 (1.8%)
0.3 to 0.5		n = 19 (2.4%)
0.2 to 0.2		n = 27 (3.4%)
0.1 to 0.1		n = 59 (7.4%)
		n = 0 (0.0%)
<0.1		n = 676 (85.0%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia

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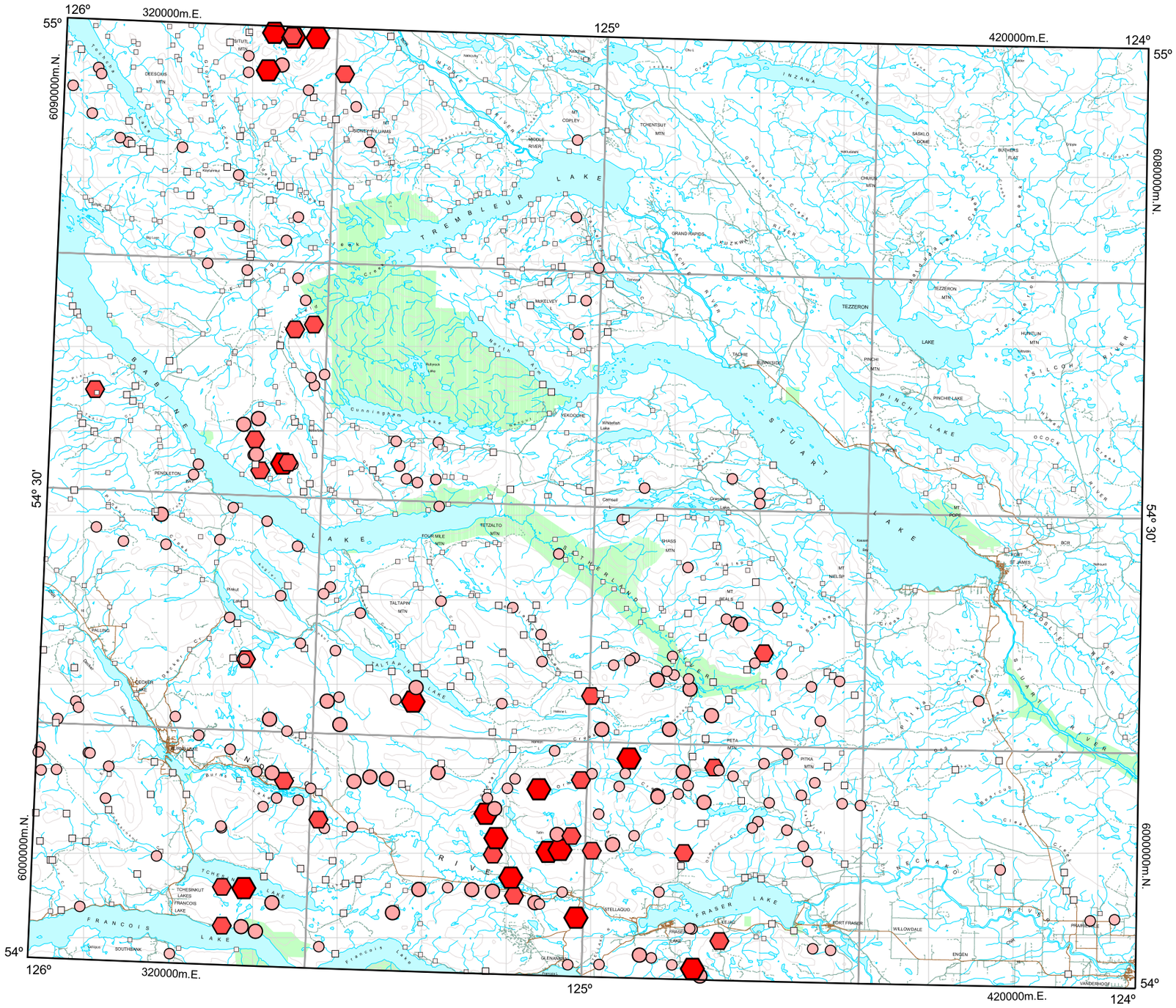
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SOUTHBANK
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DEESCUS MTN
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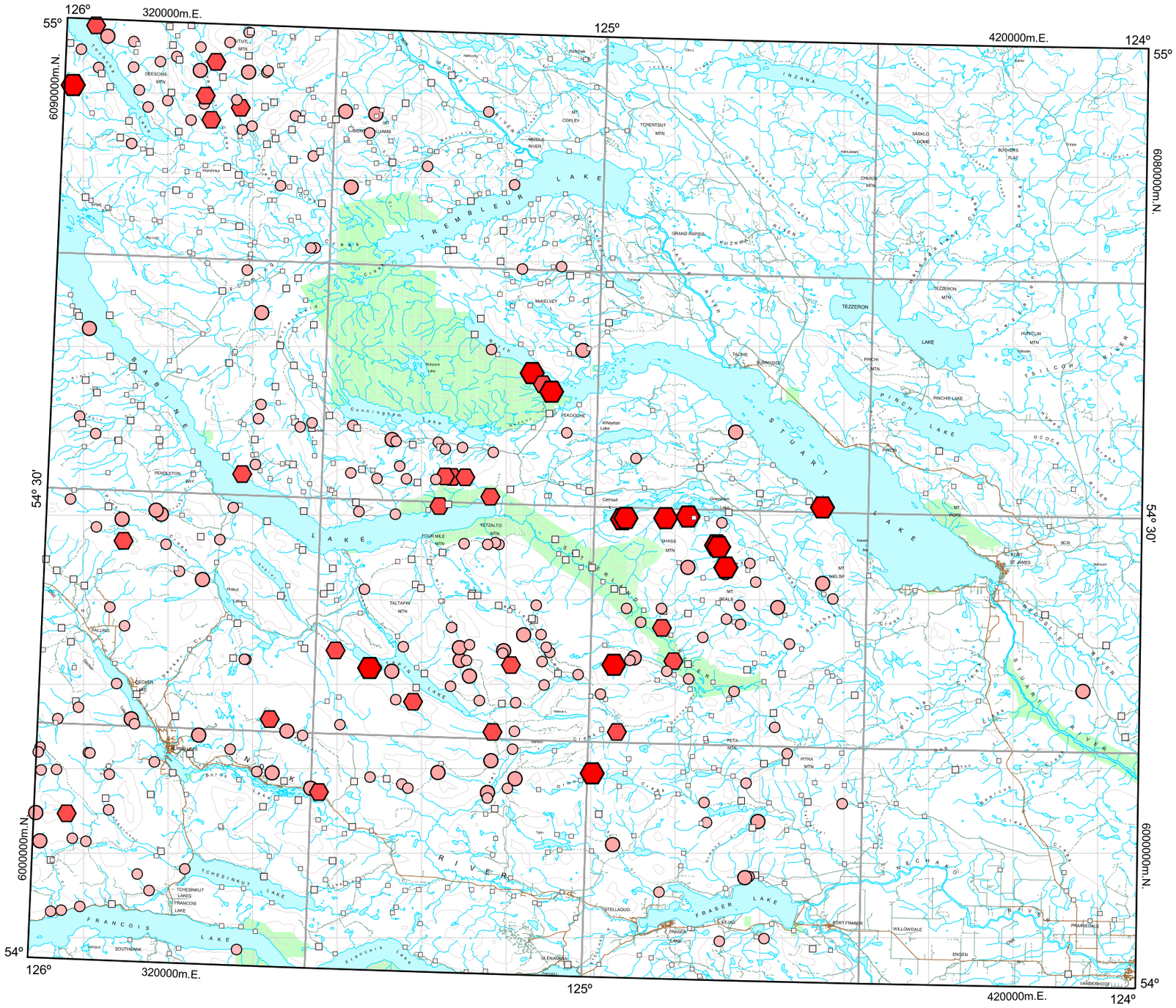
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MT SIGNAL
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Burns Lake
Lecker Lake
Pinkut Lake
Fulling Lake
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Ogock Creek
Nechako River
Stuart River
Fraser River
Tchesinkut Lake
Francois Lake
Pendleton Bay
Sabine Lake
Tremblleur Lake
Inzana Lake
Stuart Lake
Pinchi Lake
Fraser Lake
Tezzeron Lake
Tachie River
Grand Rapids
Middle River
Kuzkwk Creek
Cunningham Creek
Tsilcoh River
Ogock Creek
Nechako River
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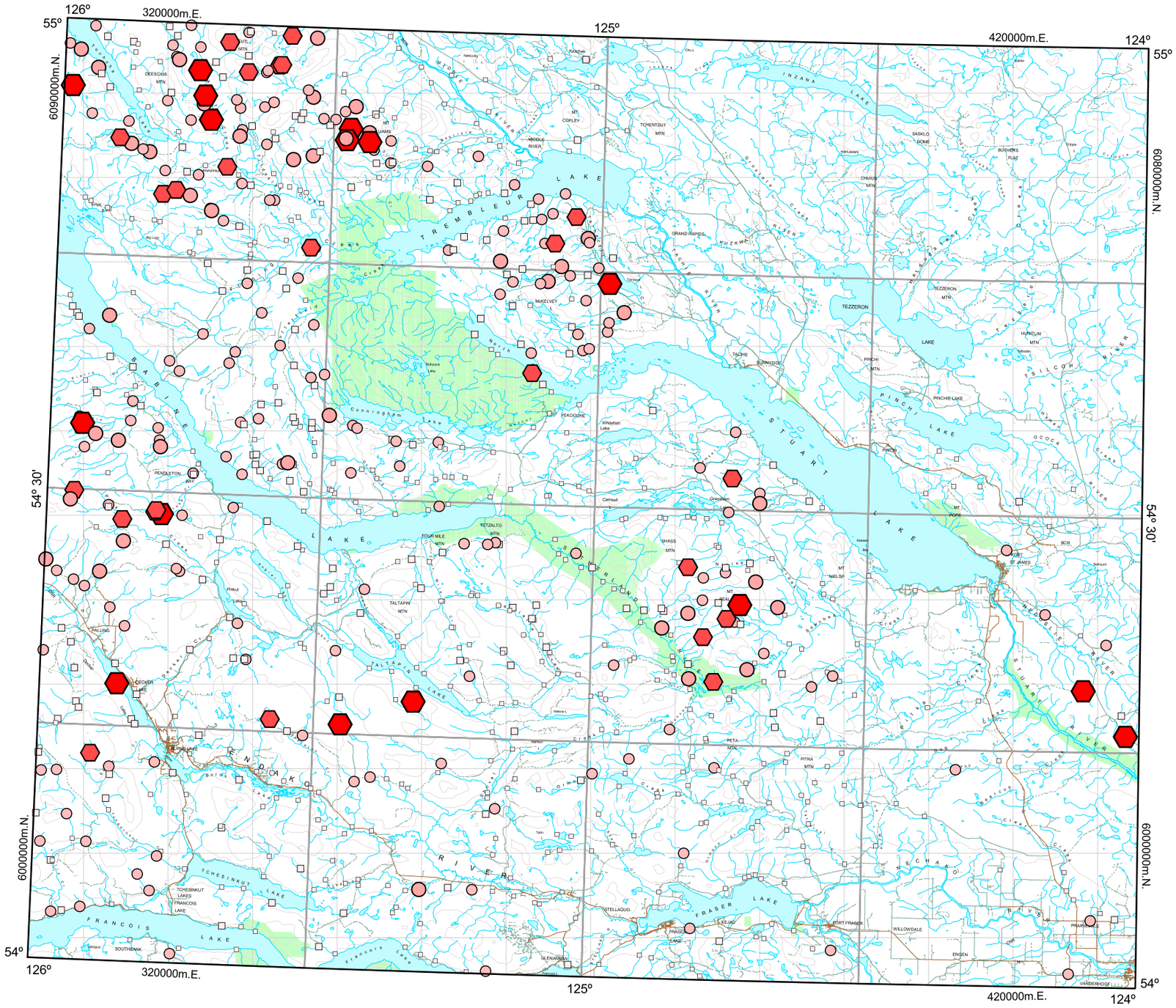
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MAKELVEY
TEXKOCHE
PENDLETON BAY
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FRANCOIS LAKE
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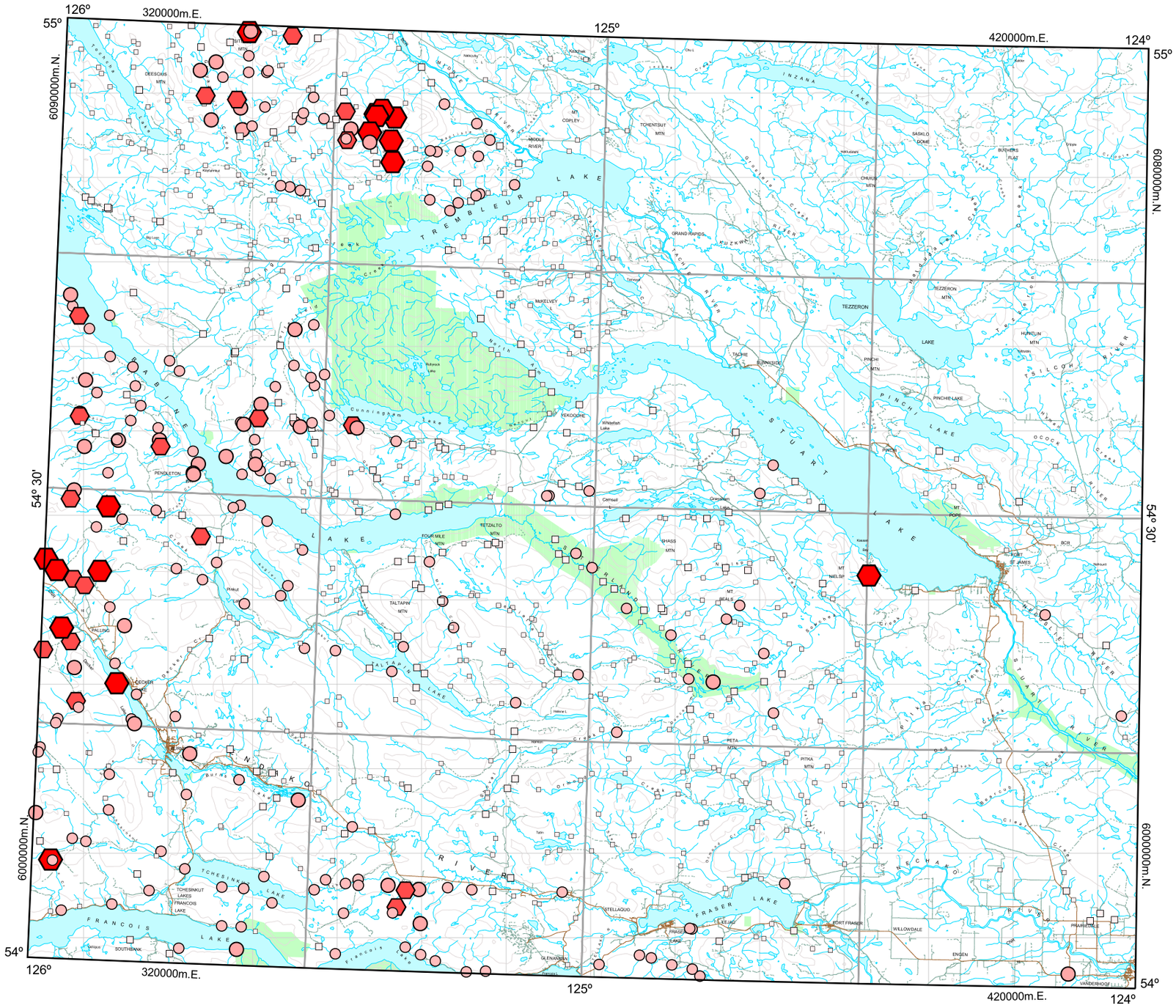
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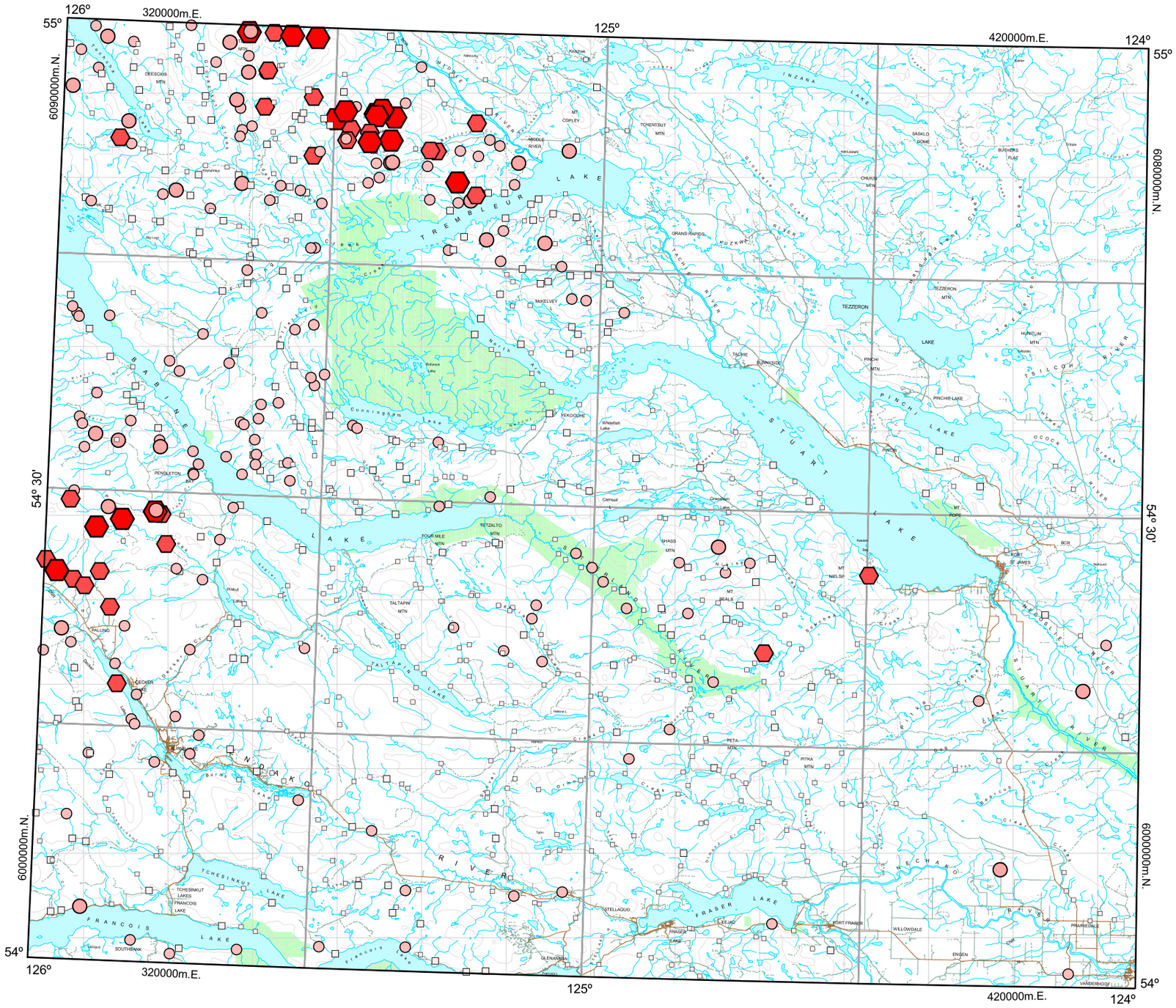
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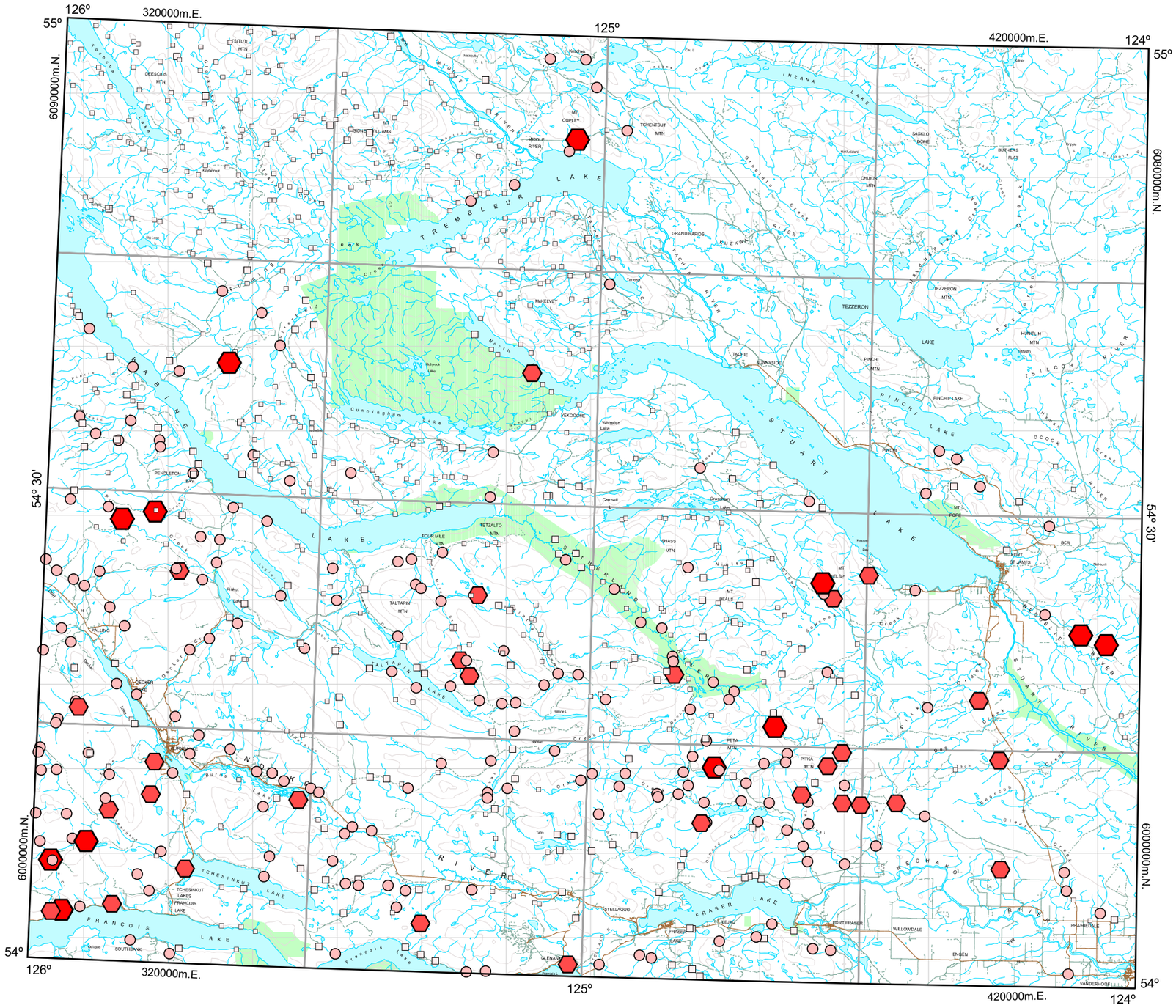

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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Barium by INAA

Stream Sediment

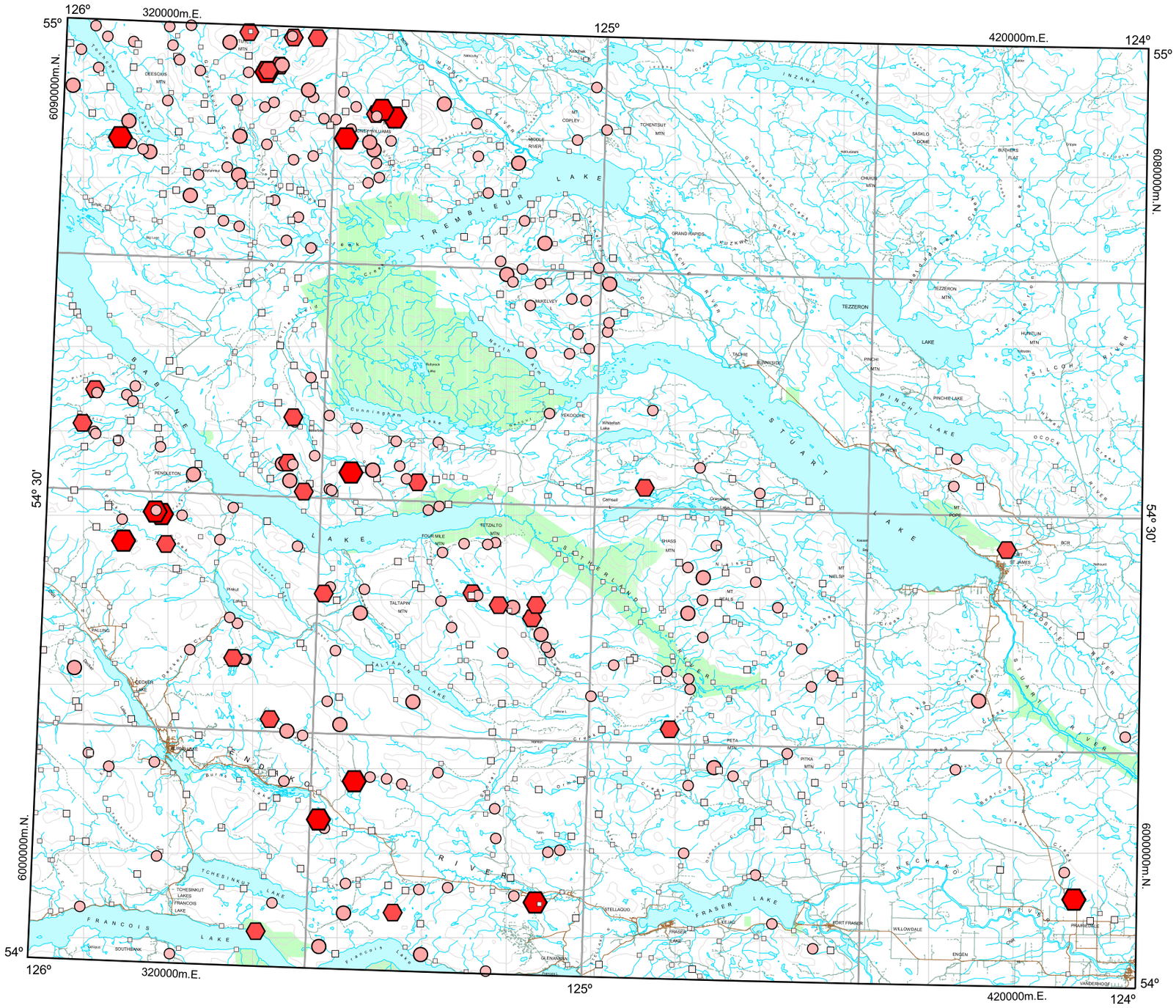
Concentration (ppm)	Frequency
1201 to 1600	n = 12 (1.5%)
1101 to 1200	n = 28 (3.5%)
	n = 0 (0.0%)
911 to 1100	n = 196 (24.7%)
811 to 910	n = 150 (18.9%)
58 to 810	n = 409 (51.4%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
Ministry of Energy and Mines
Energy and Minerals Division
Geological Survey Branch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TAKLA LAKE
BABINE LAKE
INZANA LAKE
TCHESINKUT LAKE
FRASER RIVER
STUART RIVER
NECHAKO RIVER
TSILCH RIVER
OSCOK CREEK
PINCHI LAKE
FORT FRASER
PRAIRIEDALE
WILLOWDALE
ENGEN
STELLAQUO
GLENAVON
SOUTHBANK
TCHESINKUT LAKES
FRANCOIS LAKE
VANDERHOOF
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PENDLETON
TEZZERON
TEZZERON MTN
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PINCHI
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MT. NELSON
MT. SEALS
PETA MTN
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FOUR MILE MTN
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SHASS MTN
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TOMENTBUT MTN
GRAND RAPIDS
MIKELVEY
MEKOOCHE
Whitefish Lake
Cunningham Lake
Cemetery
Grassman Lake
Kwaxwil Lake
Pinkut Lake
Fraser Lake
Tachie
Tachie River
Nechako River
Stellaquo Creek
Stuart River
Nadina River
Tsilcoh River
Osock Creek
Pinchi Lake
Tezzeron Lake
Tatalima Lake
Takla Lake
Babine Lake
Inzana Lake
Tchesinkut Lake
Francois Lake
Fraser Lake
Tremblleur Lake
Middle River
Middle River Reservoir
Cunningham Creek
Pendleton Creek
Tetzalto Creek
Four Mile Creek
Shass Creek
Taltapin Creek
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Pitka Creek
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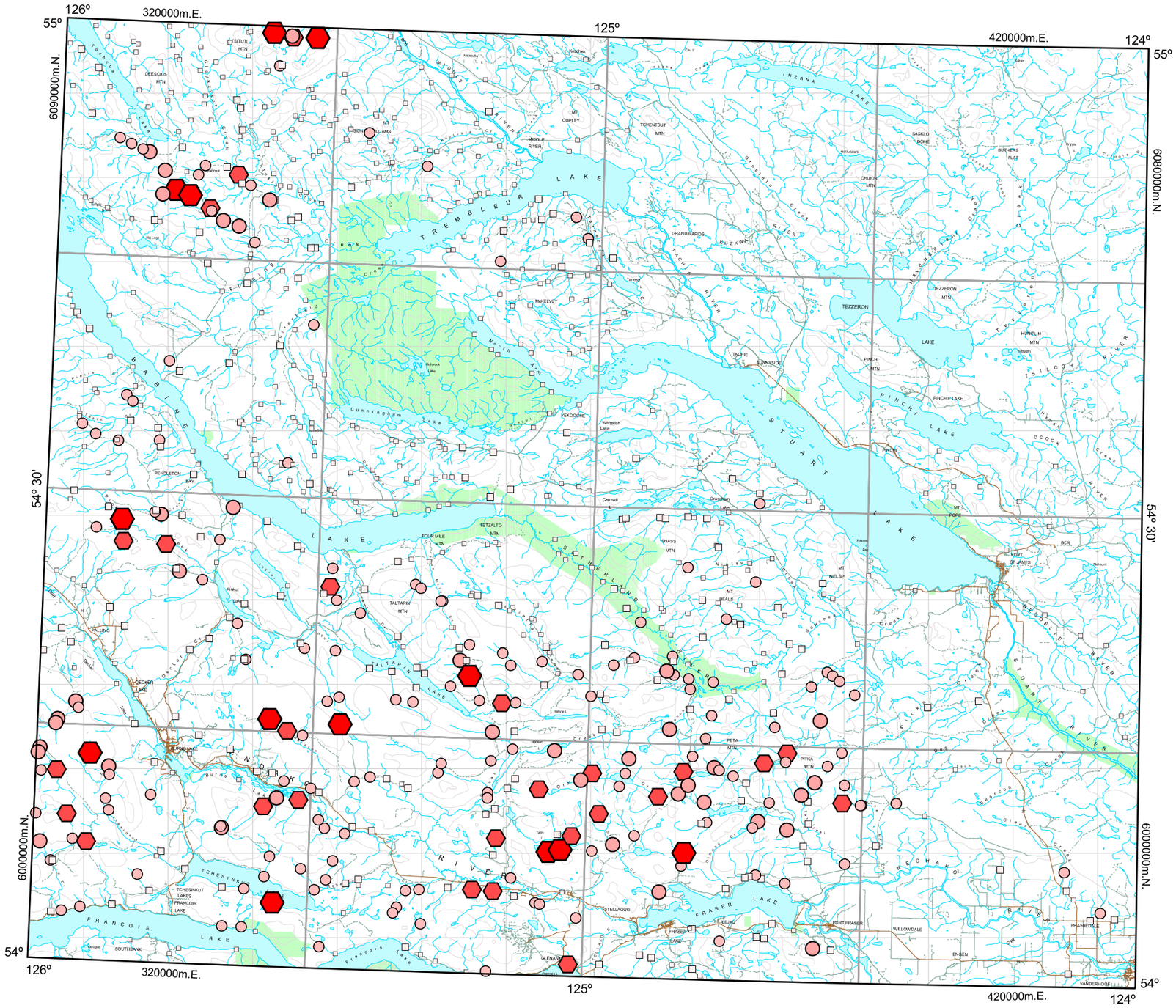

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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Cerium by INAA

Stream Sediment

Concentration (ppm)	Frequency
101 to 240	n = 13 (1.6%)
86 to 100	n = 27 (3.4%)
75 to 85	n = 38 (4.8%)
59 to 74	n = 143 (18.0%)
48 to 58	n = 175 (22.0%)
<5 to 47	n = 399 (50.2%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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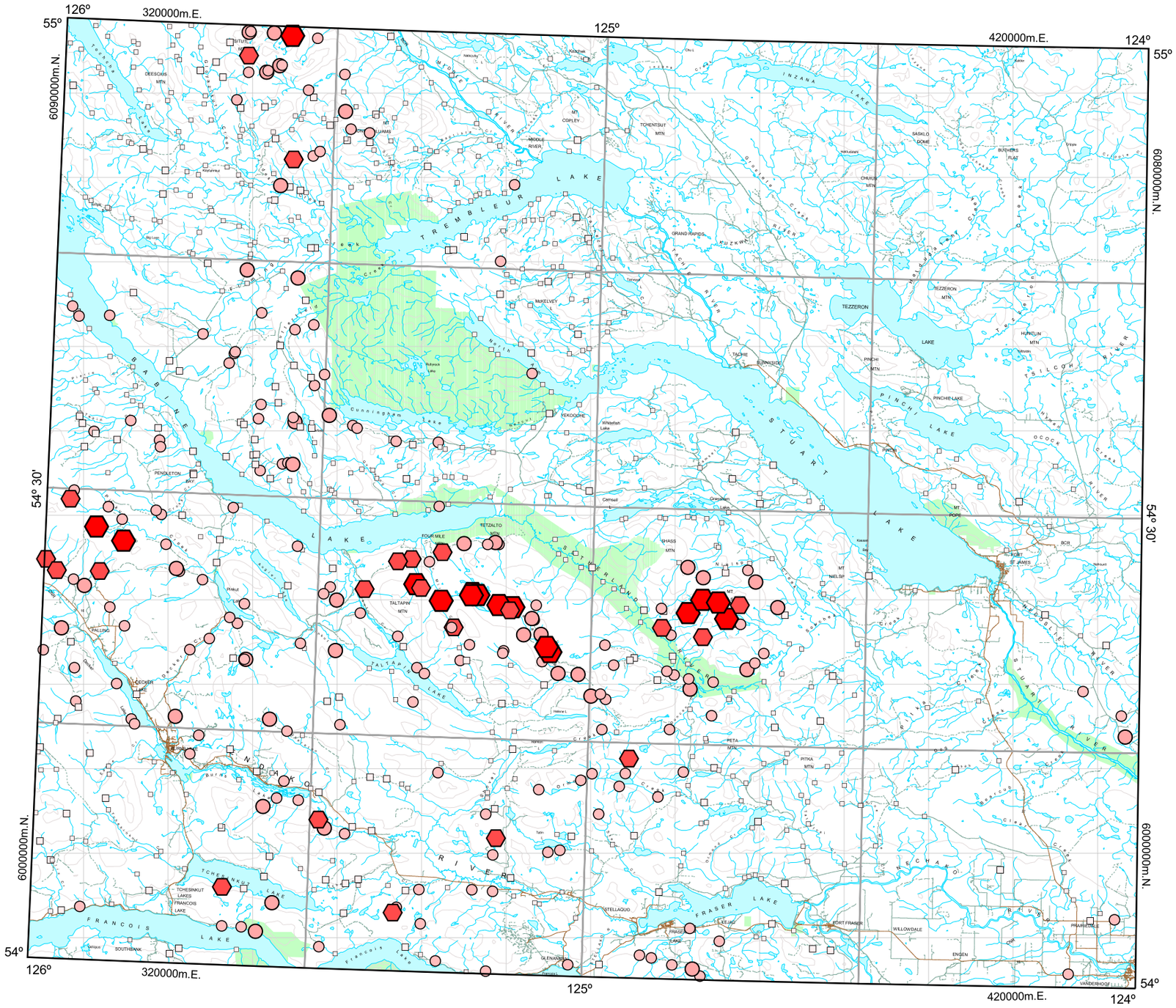
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FORT FRASER
FORT ST. JAMES
VANDERHOOF
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TEZZERON
PINCHI LAKE
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FOUR MILE
GRAND RAPIDS
MIDDLE RIVER
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TOMENTBUT
COPLEY
SASKLO BOWL
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PENDLETON BAY
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Whitefish Lake
Cunningham Lake
Cemetery
Grassmere Lake
Kwaxwal Bay
Pinchi
Fraser Lake
Stellaquo
Tachie
Tatlatui Lake
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Nazko
Nazko River
Nazko Lake
Nechako River
Stuart River
Tsilcoh River
Ogden River
Nechako River
Tachie River
Middle River
Cunningham Lake
Pendleton Bay
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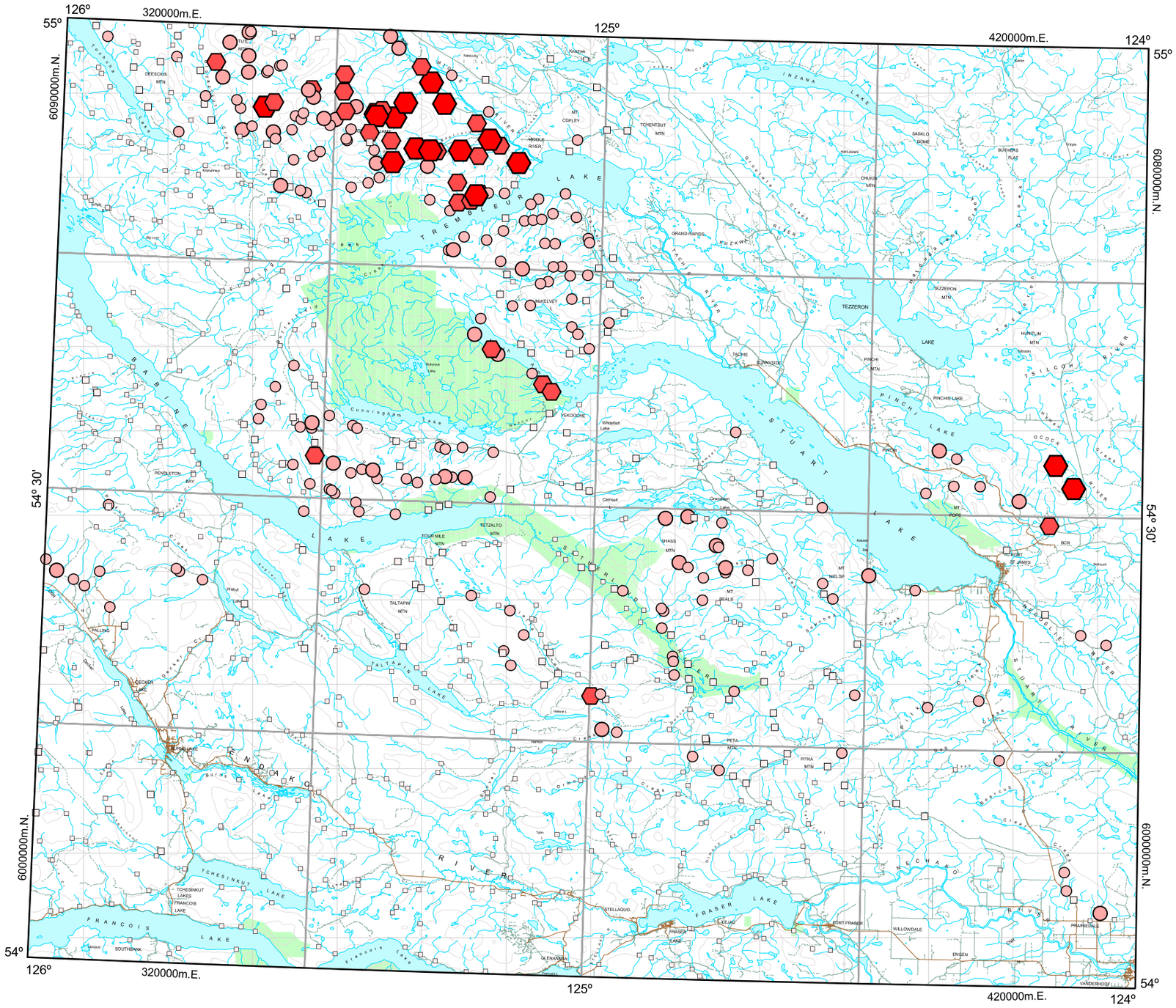
Ogden River
Nazko



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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Chromium by INAA

Stream Sediment

Concentration (ppm)	Frequency
1201 to 6310	n = 16 (2.0%)
681 to 1200	n = 24 (3.0%)
371 to 680	n = 38 (4.8%)
160 to 370	n = 152 (19.1%)
111 to 160	n = 125 (15.7%)
23 to 110	n = 440 (55.3%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
Ministry of Energy and Mines
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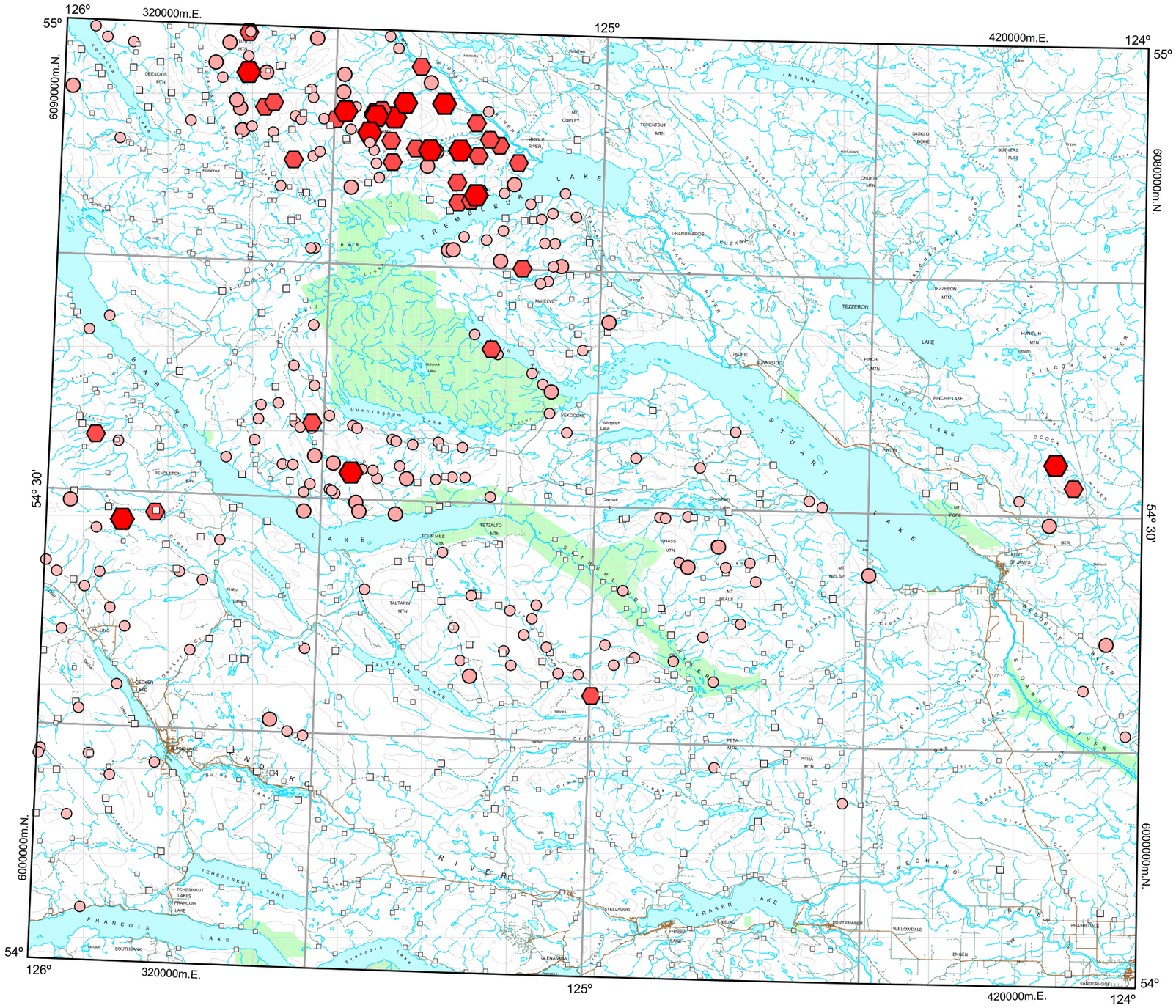

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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Cobalt by INAA

Stream Sediment

Concentration (ppm)	Frequency
48 to 87	n = 14 (1.8%)
35 to 47	n = 26 (3.3%)
28 to 34	n = 36 (4.5%)
20 to 27	n = 152 (19.1%)
17 to 19	n = 145 (18.2%)
<2 to 16	n = 422 (53.1%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
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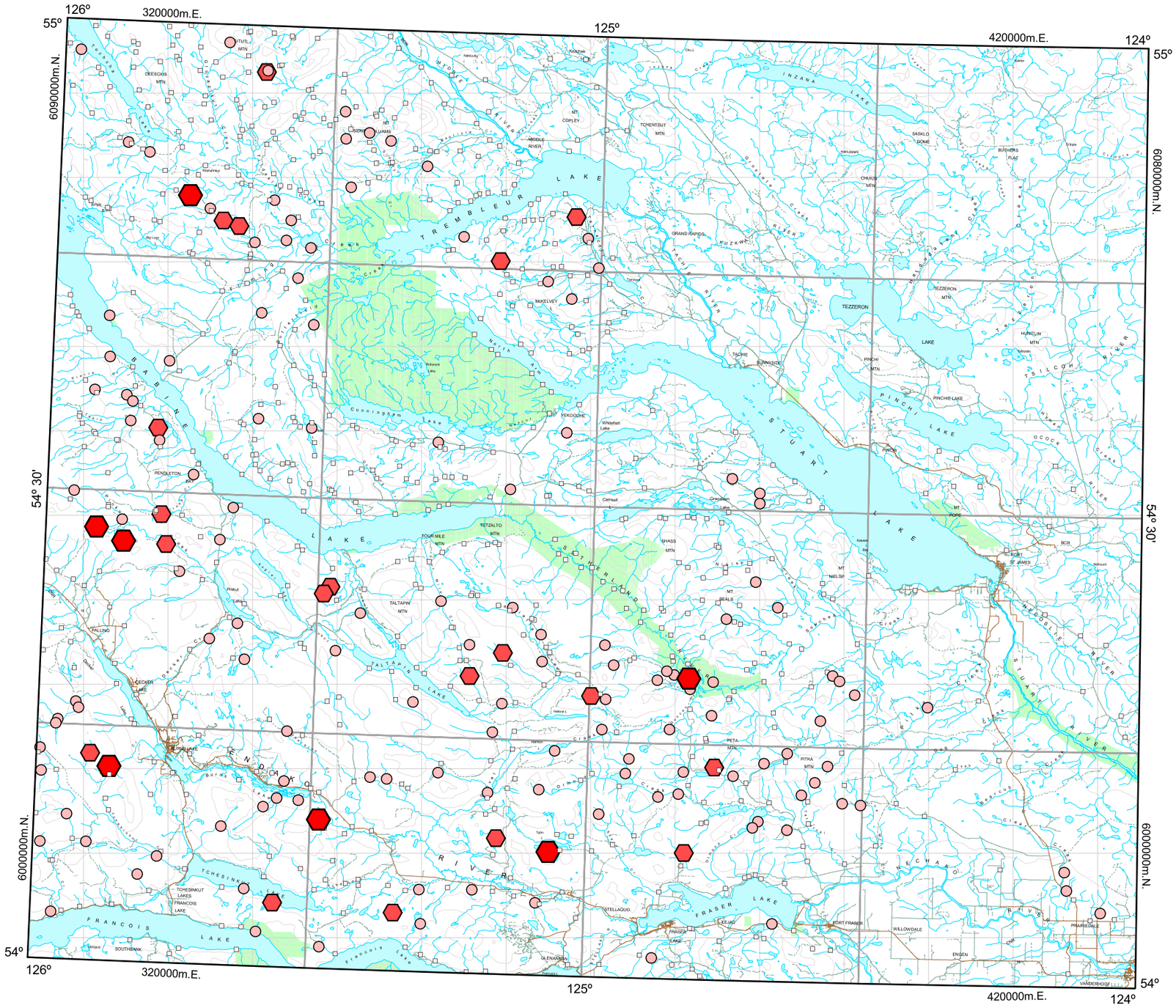
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VANDERHOOF
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WILLOWDALE
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SOUTHBANK
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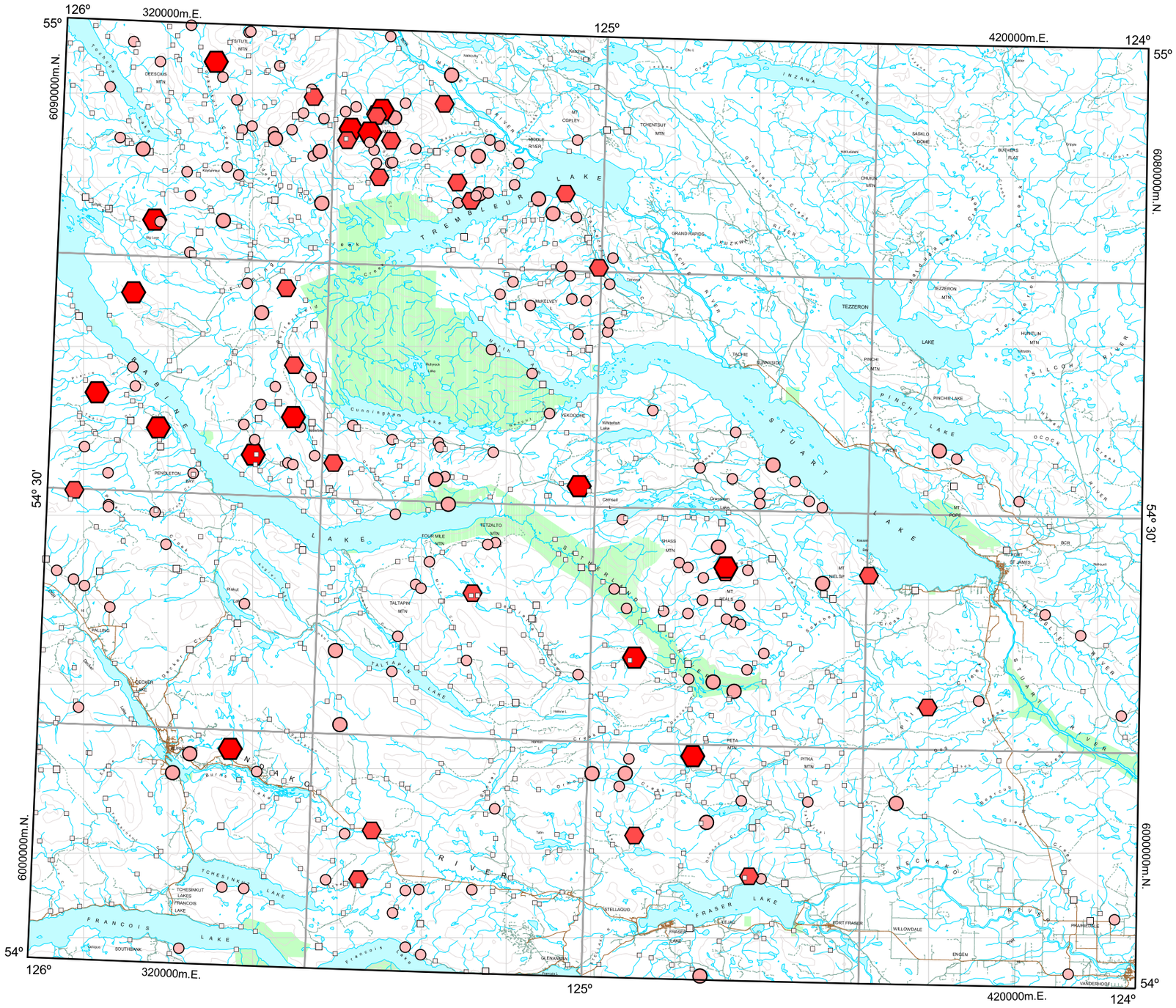

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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Gold by INAA

Stream Sediment

Concentration	(ppb)	Frequency
22 to 68		n = 15 (1.9%)
11 to 21		n = 23 (2.9%)
6 to 10		n = 29 (3.6%)
3 to 5		n = 152 (19.1%)
2 to 2		n = 65 (8.2%)
<2		n = 511 (64.3%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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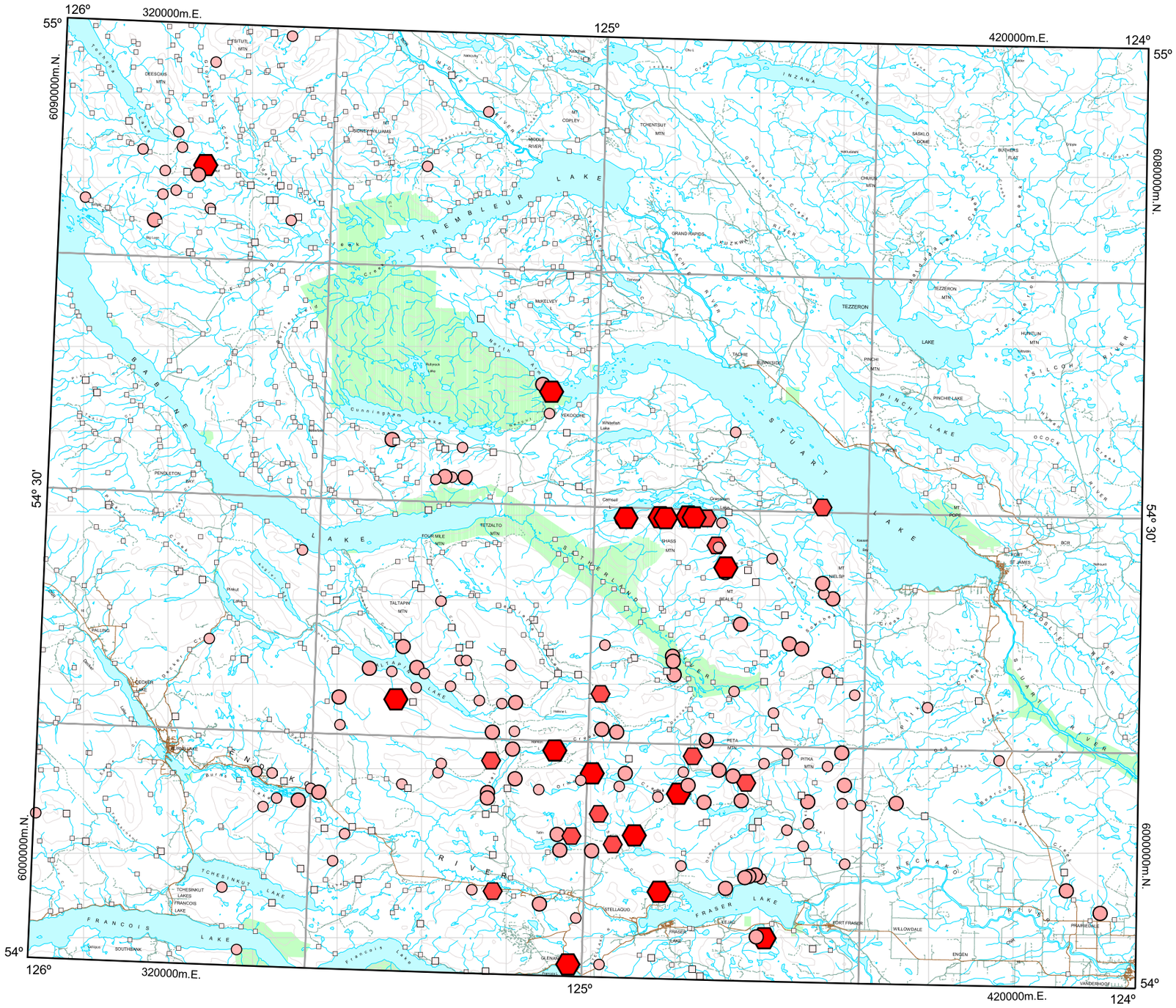

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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Hafnium by INAA

Stream Sediment

Concentration	(ppm)	Frequency
15 to 50		n = 16 (2.0%)
12 to 14		n = 11 (1.4%)
9 to 11		n = 52 (6.5%)
7 to 8		n = 76 (9.6%)
6 to 6		n = 91 (11.4%)
1 to 5		n = 549 (69.1%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

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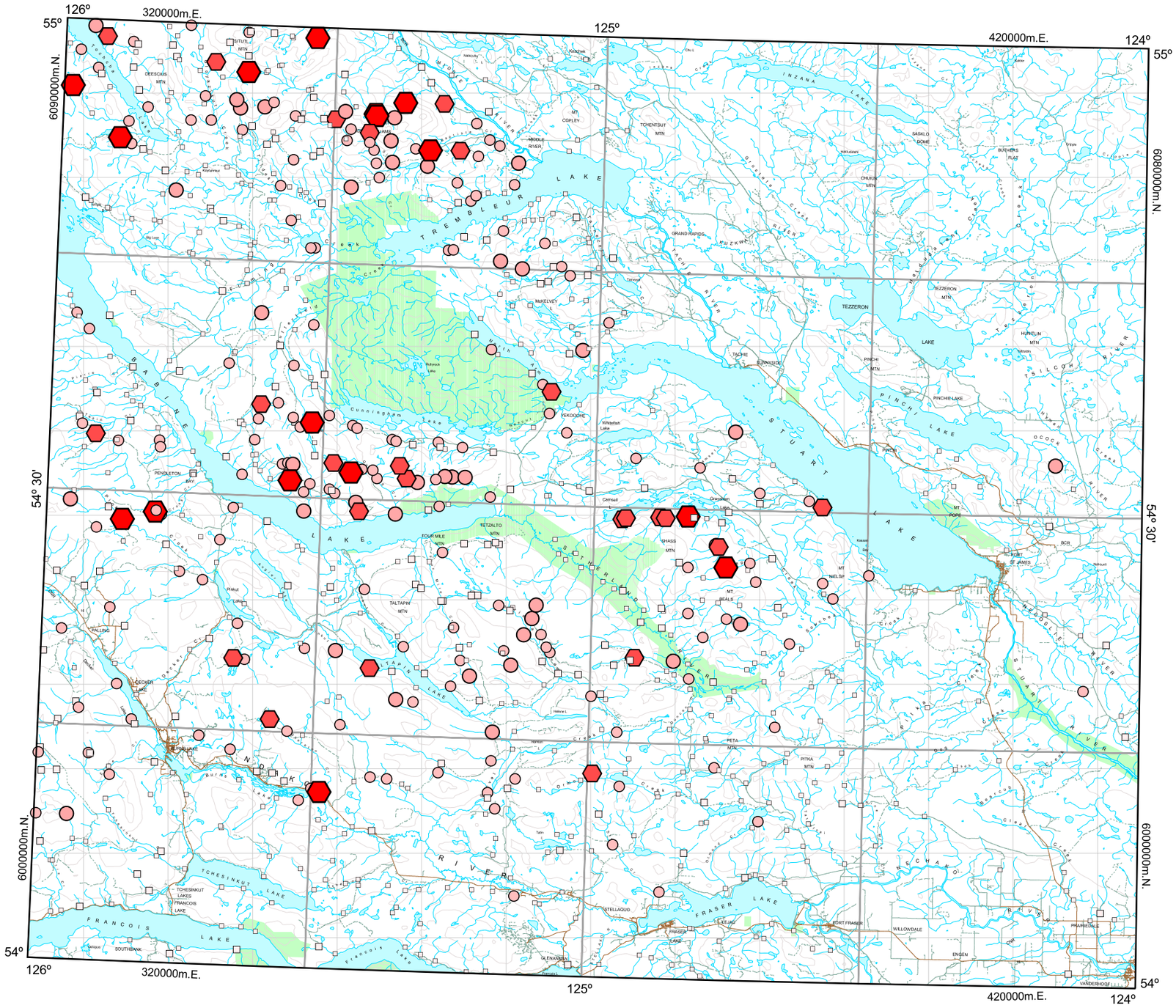

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FORT FRASER

BRITISH COLUMBIA

NTS 93K

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Kilometres

UTM Zone 10
NAD 83

Iron by INAA

Stream Sediment

Concentration	(%)	Frequency
7.3 to 15.0		n = 16 (2.0%)
6.5 to 7.2		n = 24 (3.0%)
5.9 to 6.4		n = 39 (4.9%)
5.0 to 5.8		n = 151 (19.0%)
4.4 to 4.9		n = 149 (18.7%)
1.4 to 4.3		n = 416 (52.3%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
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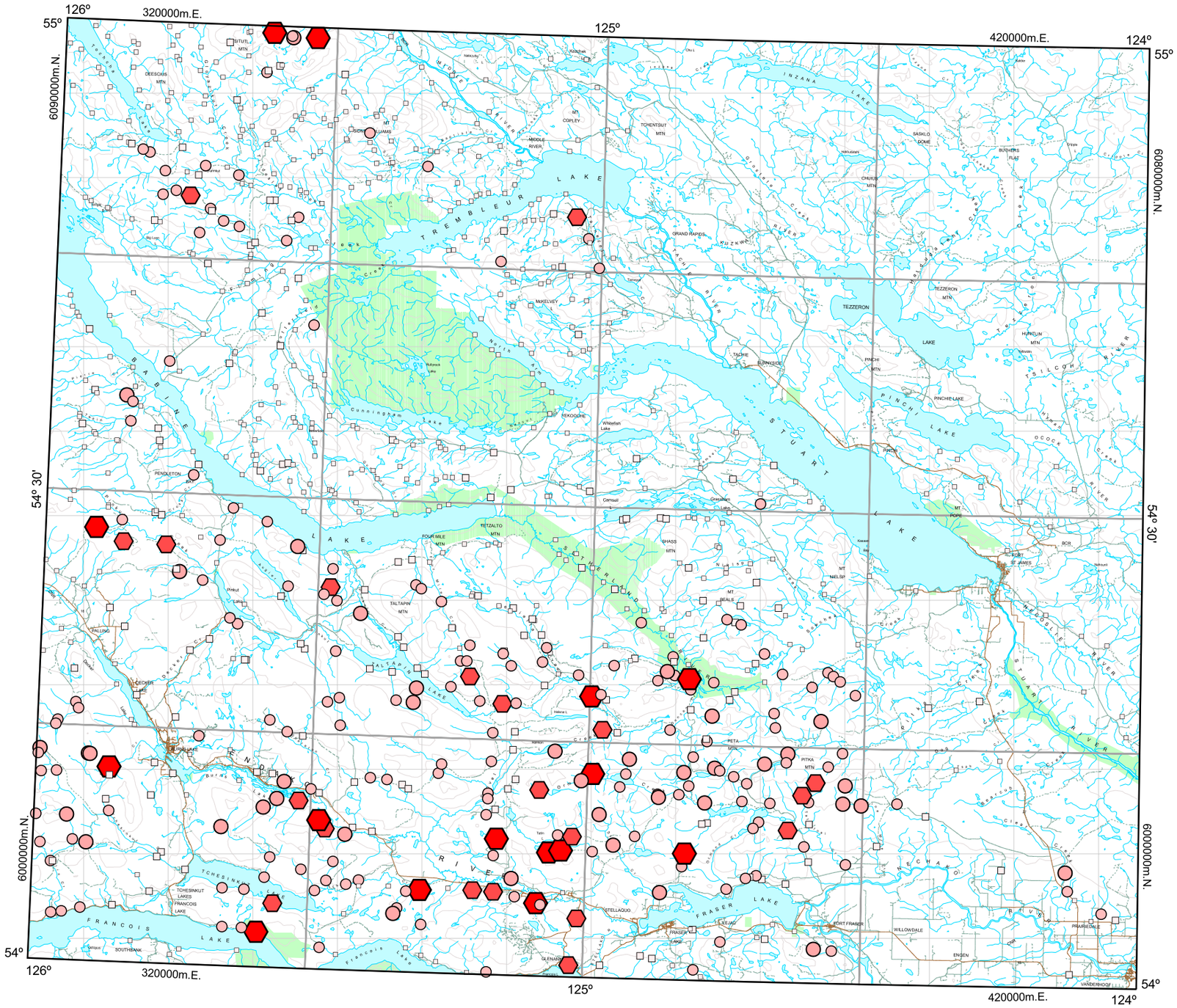
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Ghass Mtn
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Peta Mtn
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Grand Rapids
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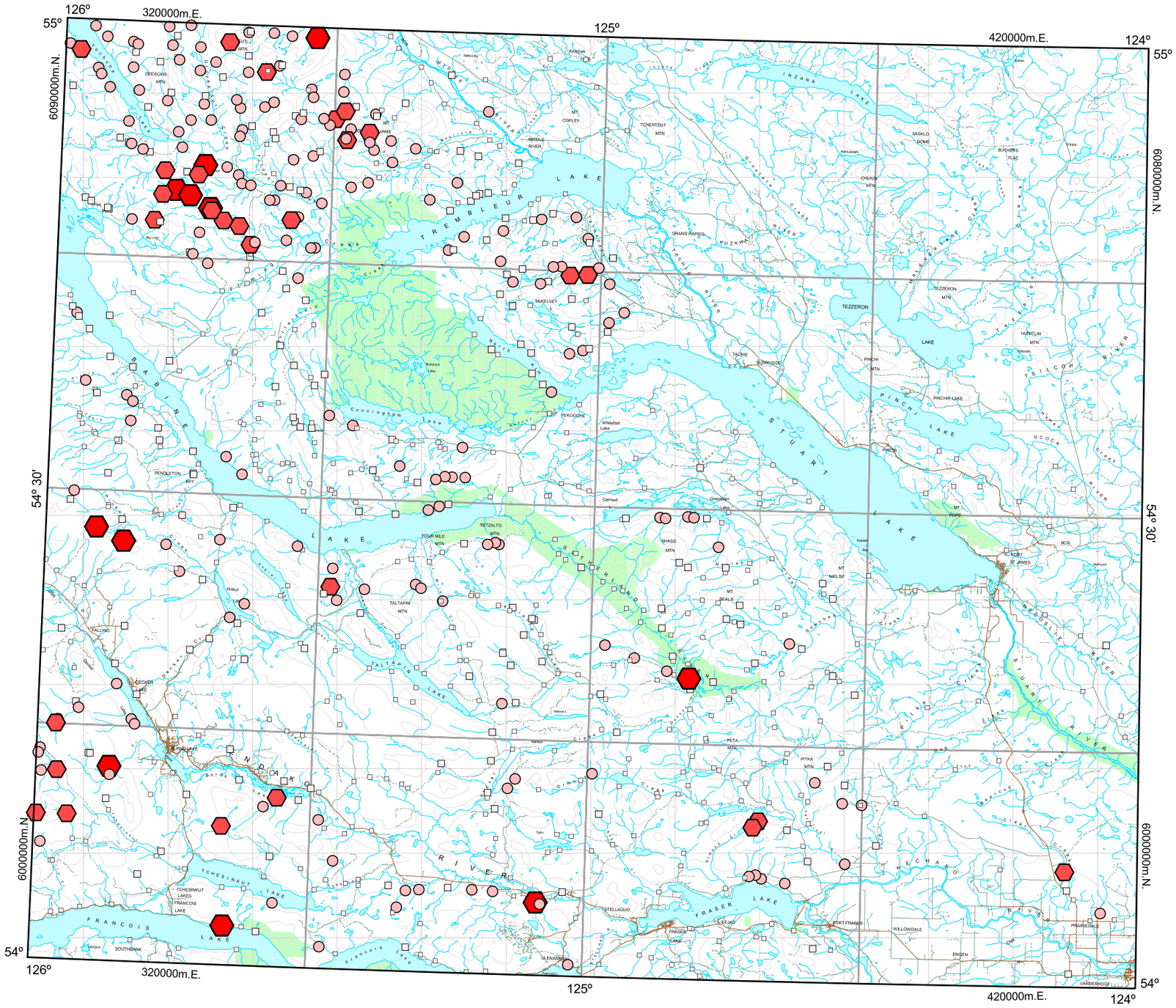
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Tchesinkut Lake
Sabine Lake
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Inzana Lake
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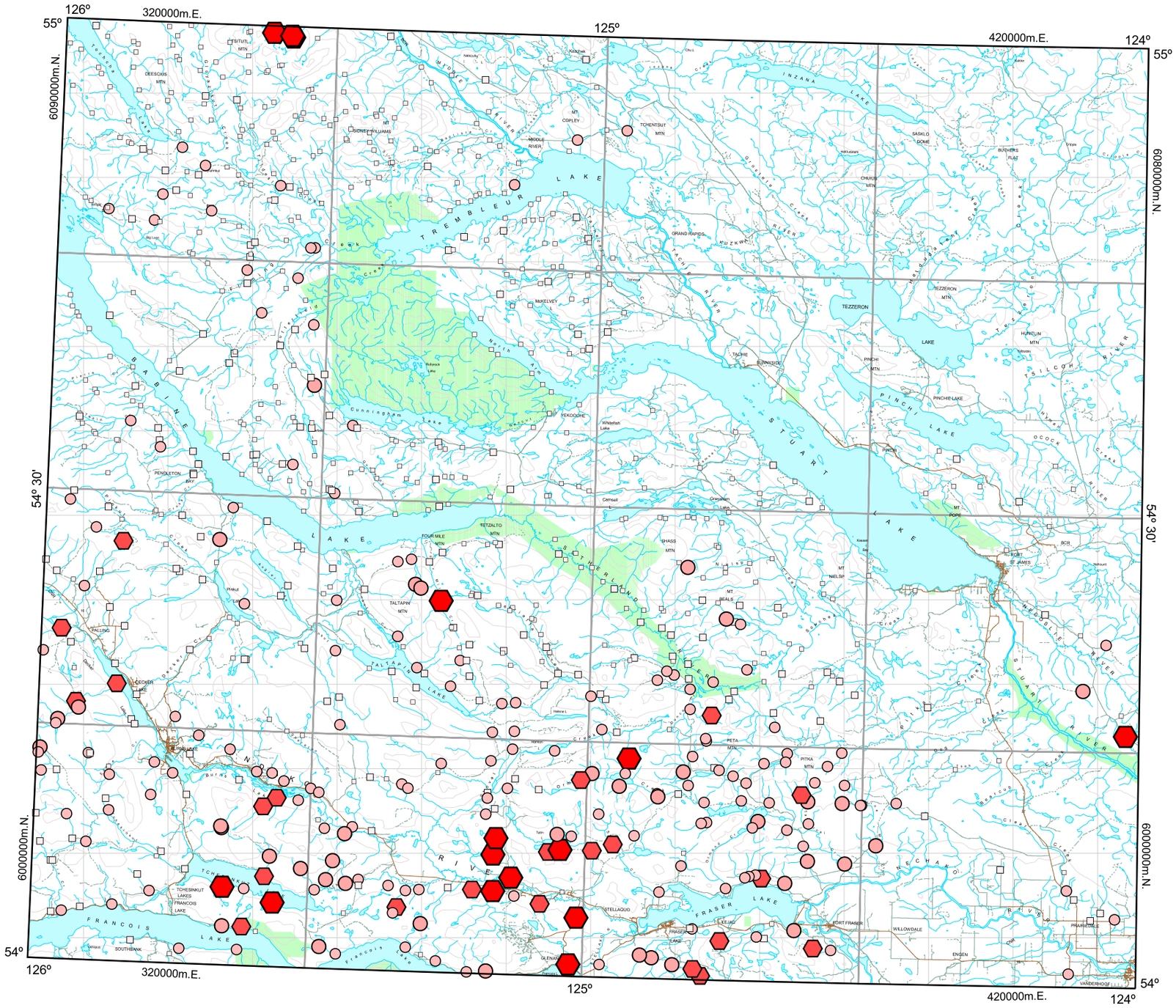
Nazko River
Tache River
Tsilcoh River
Ogden



GSC Open File 1766
BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Rubidium by INAA

Stream Sediment

Concentration	(ppm)	Frequency
77 to 130		n = 15 (1.9%)
68 to 76		n = 23 (2.9%)
61 to 67		n = 38 (4.8%)
51 to 60		n = 144 (18.1%)
43 to 50		n = 175 (22.0%)
<5 to 42		n = 400 (50.3%)

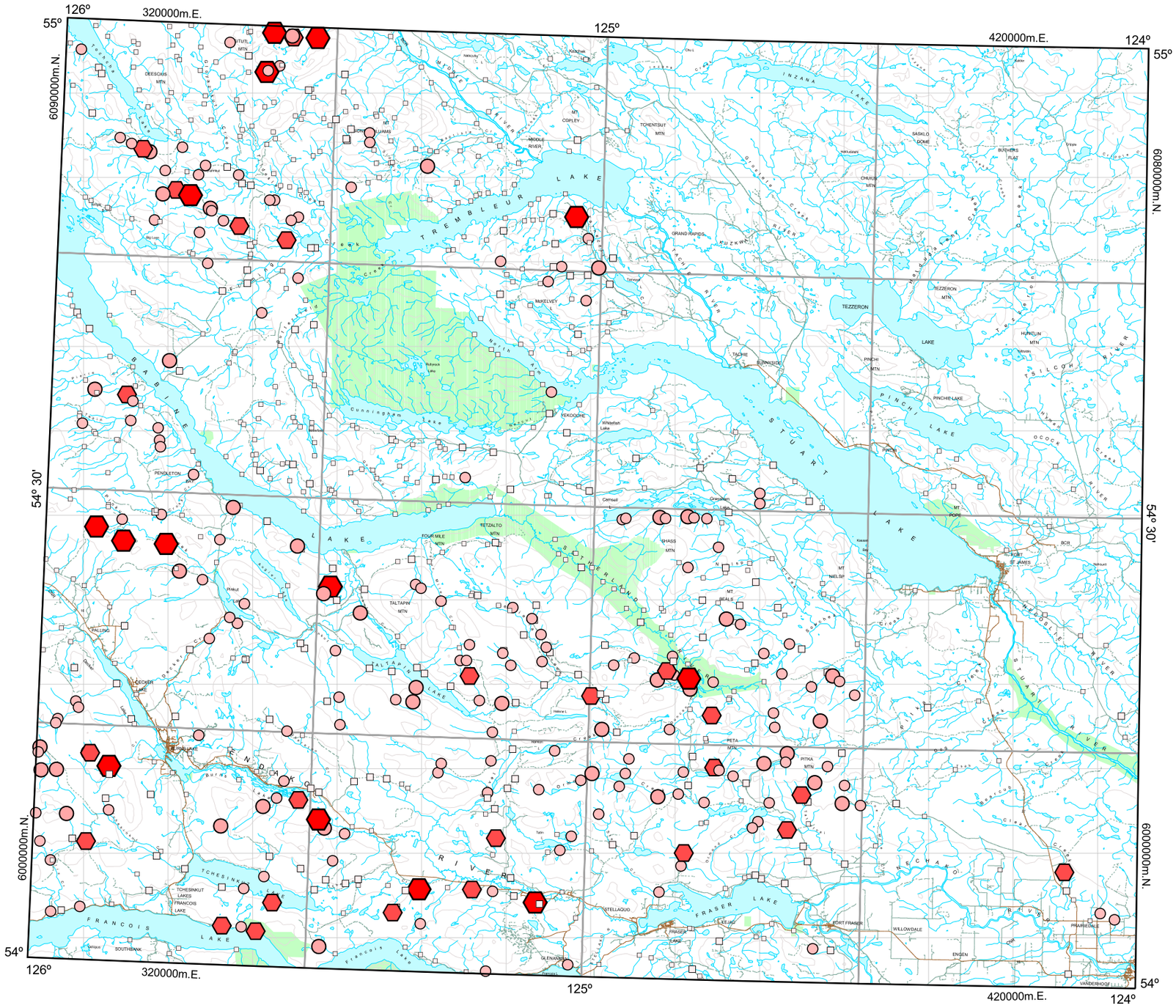
795 Sample Sites

Natural Resources Canada Ressources naturelle Canada

Canada

British Columbia

Ministry of Energy and Mines
Energy and Minerals Division
Geological Survey Branch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BABINE LAKE
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STUART RIVER
NECHAKO RIVER
TEZZERON
PINCHI
FORT FRASER
FORT ST. JAMES
VANDERHOOF
PRAFRIEDLE
WILLOWDALE
ENGEN
STELLAQUO
GLENANNIE
SOUTHBANK
TOHESINKUT LAKES
FRANCOIS LAKE
TOHESINKUT
TALTAPIN MTN
PETA MTN
PITKA MTN
MT BEALS
MT NELSIE
SHASS MTN
FOUR MILE MTN
TETZALTO MTN
PENDLETON
MIKELVEY
YEKOOCHE
GRAND RAPIDS
TOHENTBUT MTN
COPLEY
DEESCUS MTN
TUTL MTN
MT PIPE
MT POPE
PINCHI LAKE
TACHE
EUNNIDIS
HUNCLUN MTN
TEZZERON MTN
CHUIUS MTN
SASKLO BOWL
BUCHERS FLAT
INZANA LAKE
MIDDLE RIVER
Cunningham Lake
Whitefish Lake
Camsell
Grassman Lake
Kwaleen
Kuzkwa
Tachie River
Tsilcoh River
Ocock River
Nechako River
Stellaquo Creek
Gisborne Creek
Cluculz Creek
Tsecha Creek
Middle River
Pendleton Creek
Mikelvey Creek
Tetzalto Creek
Shass Creek
Beals Creek
Pitka Creek
Tohesinkut Creek
Francois Lake
Fraser Lake
Stellaquo Creek
Fraser Lake
Burns Lake
Decker Lake
Pinkut Lake
Fulling
Tatin
Tsecha
Nakoluk
Kenchem
Chu L
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Kwaleen
Kuzkwa
Tachie
Tsilcoh
Ocock
Nechako
Stellaquo
Fraser
Francois
Tohesinkut
Taltapin
Pitka
Beals
Nelsie
Shass
Four Mile
Tetzalto
Pendleton
Mikelvey
Yekooche
Copley
Tohentbut
Deescus
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Camsell
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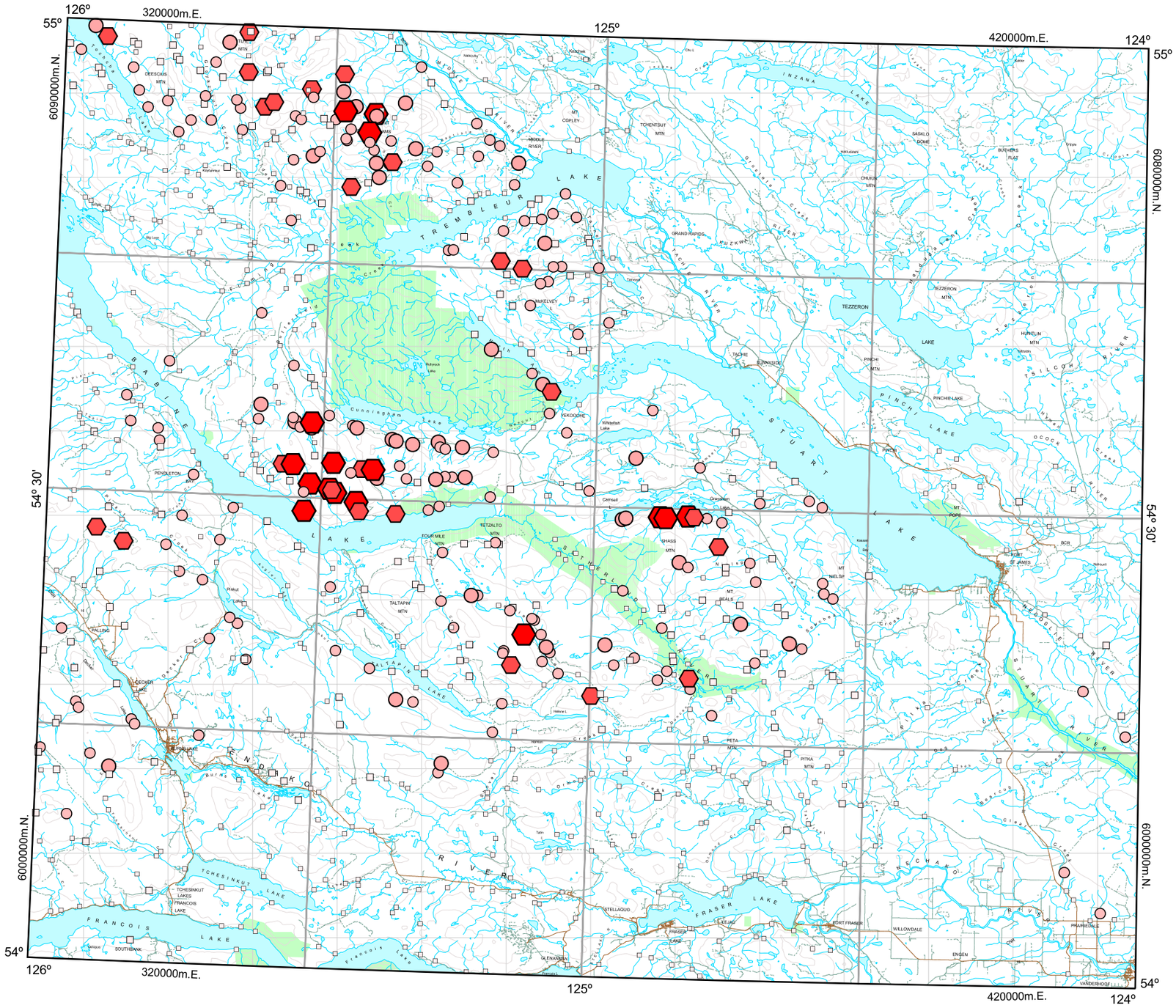
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NECHAKO RIVER
TSILCH RIVER
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INZANA LAKE
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FORT ST. JAMES
VANDERHOOF
PRAFRIEDALE
WILLOWDALE
ENGEN
STELLAQUO
GLENAVON
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TEZZERON
PINCHI LAKE
TACHE
TETZALTO MTN
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GRAND RAPIDS
MIDDLE RIVER
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MT BEALS
MT NEILSEN
MT POPE
GHASS MTN
TOHESINKUT LAKES
FRANCOIS LAKE
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PENDLETON
FALLING
LECKIE LAKE
BURNS LAKE
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Whitefish Lake
Cunningham Lake
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Grassman Lake
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Babine Lake
Tchesinkut Lake
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Cunningham Lake
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Middle River
Tachie River
Kuzkwa River
Stellaquo Creek
Nechako River
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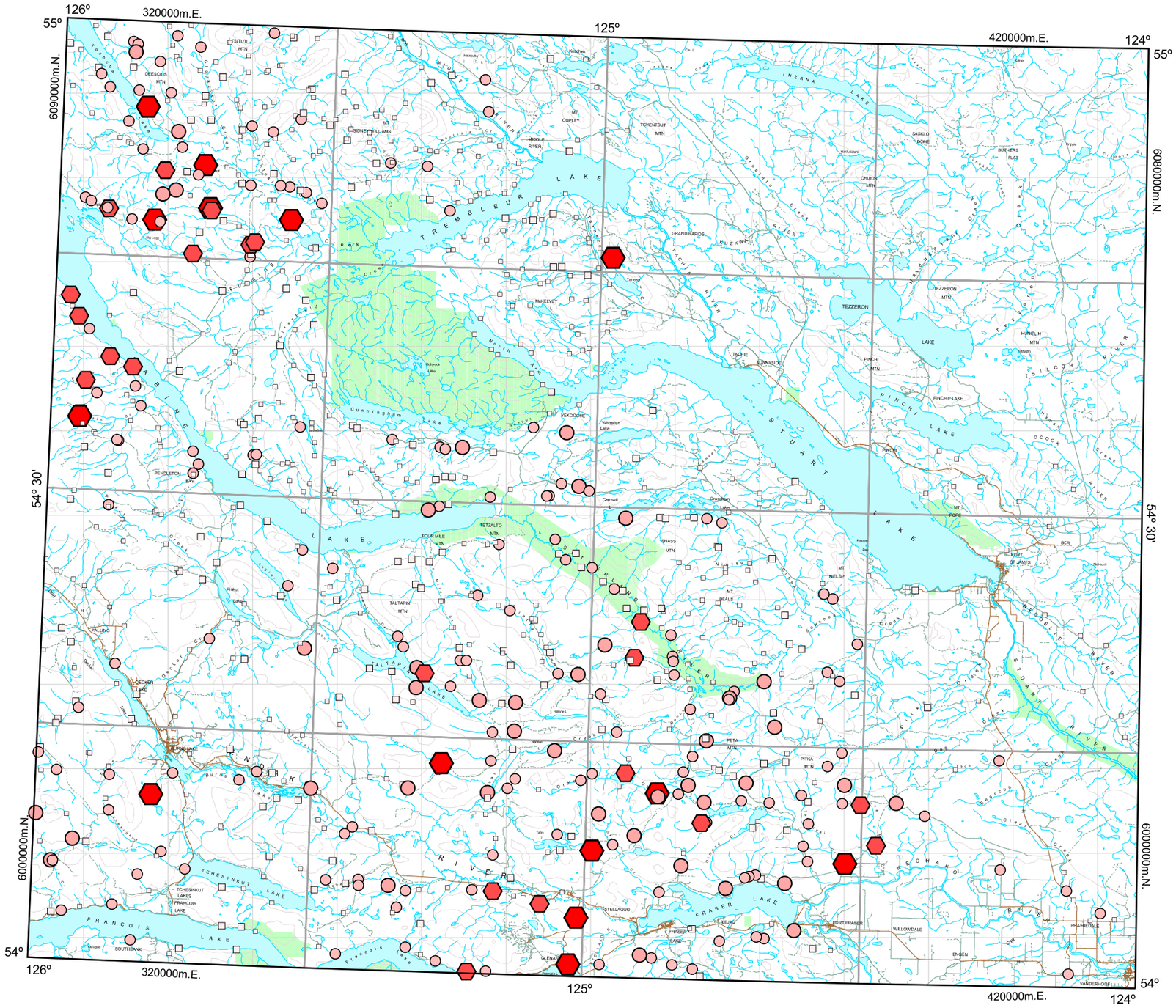
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PRAFIRIEDALE
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STELLAQUO
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MIDDLE RIVER
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Whitefish Lake
Cunningham Lake
Cemetery
Grassmere Lake
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PINCHI LAKE
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MT NELSIE
MT BEALS
SHASS MTN
PETA MTN
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TEZZERON MTN
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CHUTOS MTN
SASKLO BOWL
BUCHERS FLAT
TOHENTBUT MTN
MT COPLEY
SIDNEY WILLIAMS
DEESCUS MTN
TSITUTL MTN
Nakoulay
KINZAHI
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Tachie
Tezzeron
Pinchi
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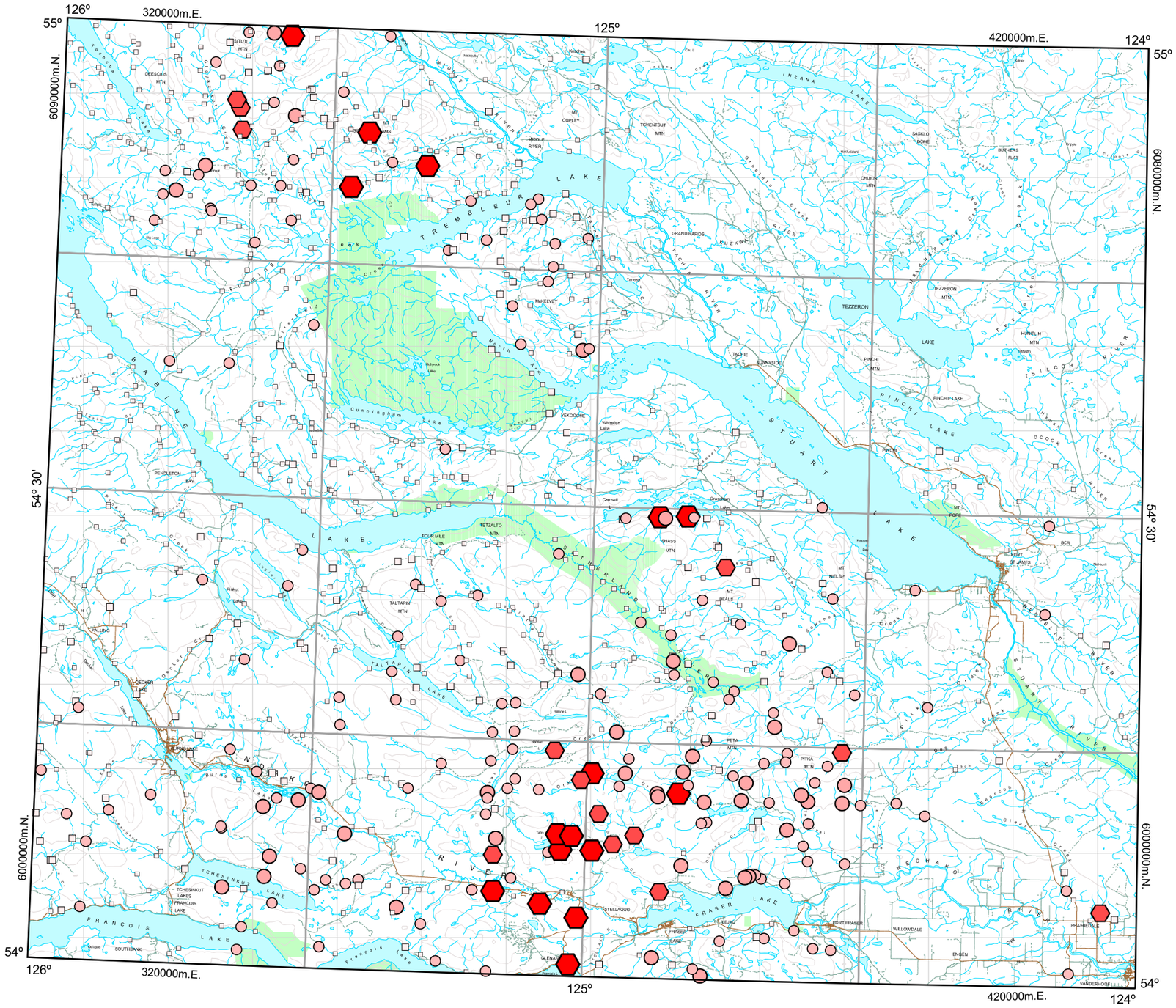
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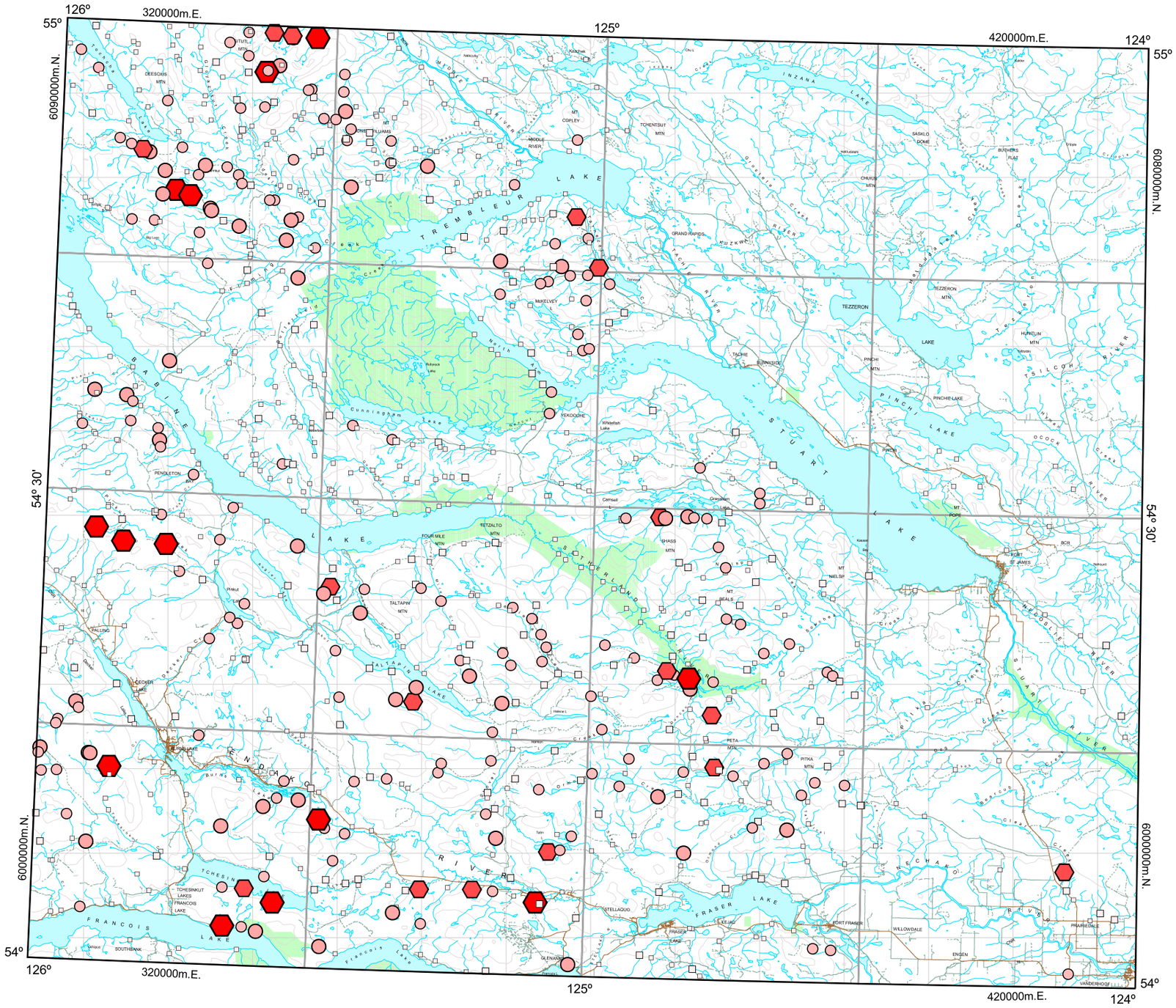
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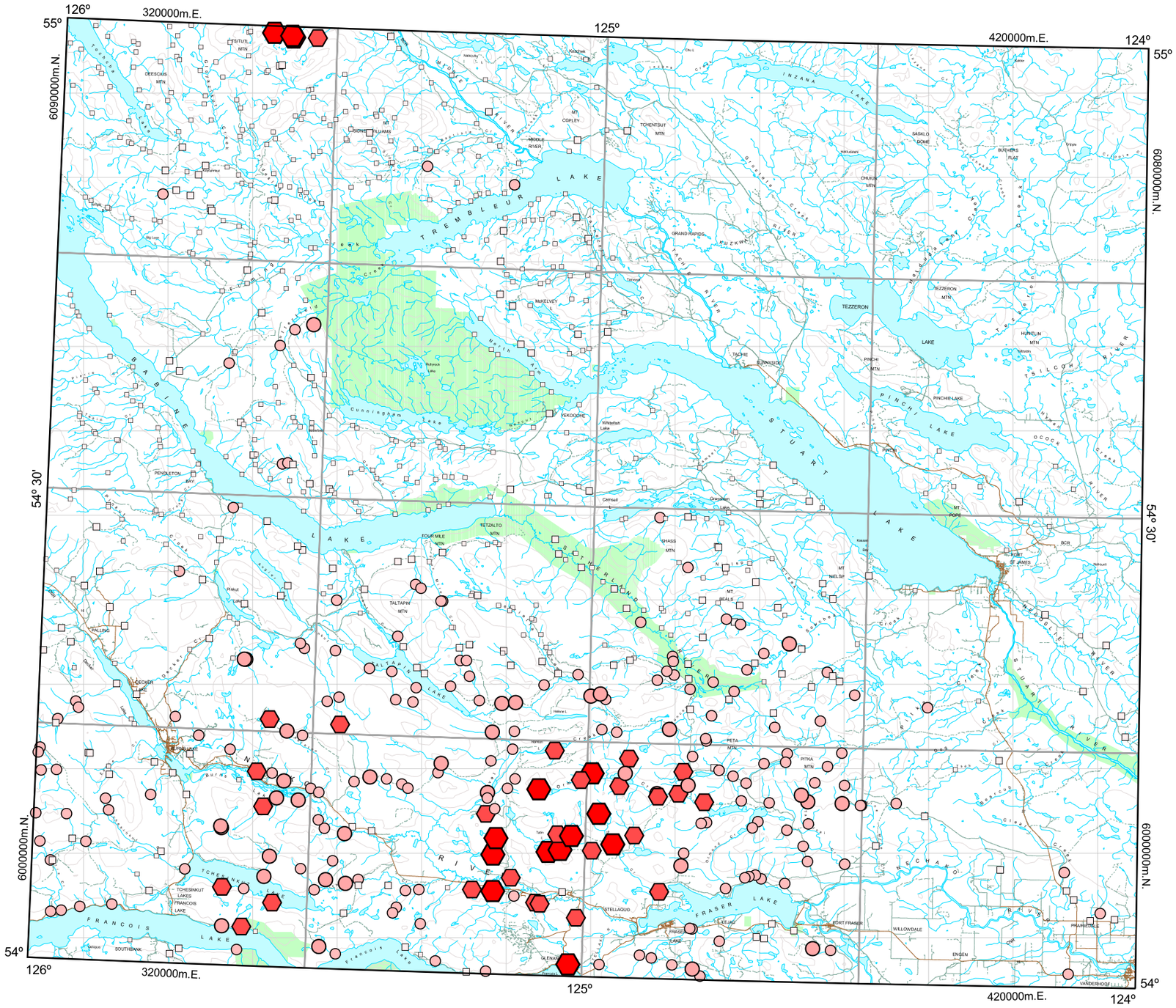
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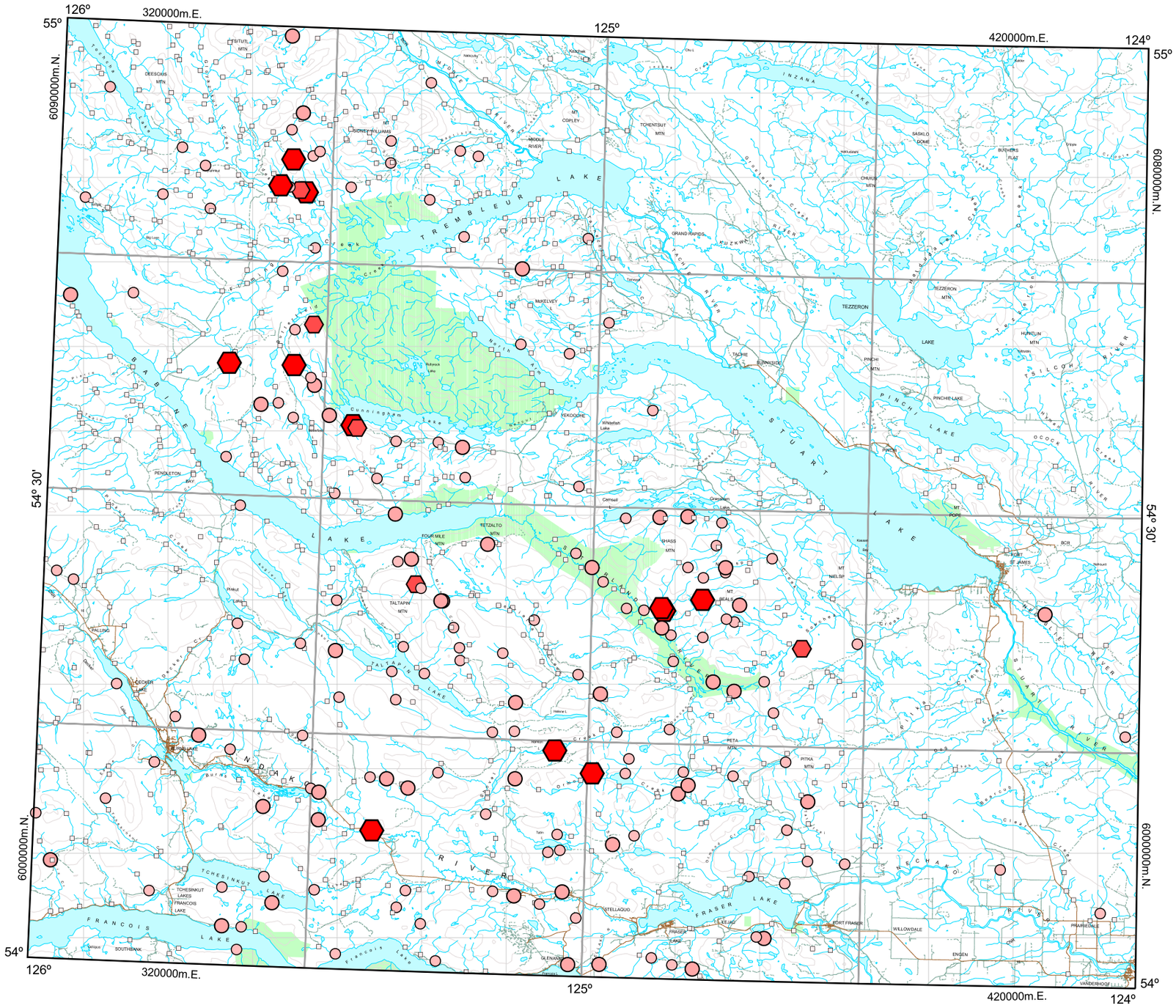
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Cunningham Lake
Whitefish Lake
Camsell
Grassham Lake
Kuzkwa
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Tsilcoh
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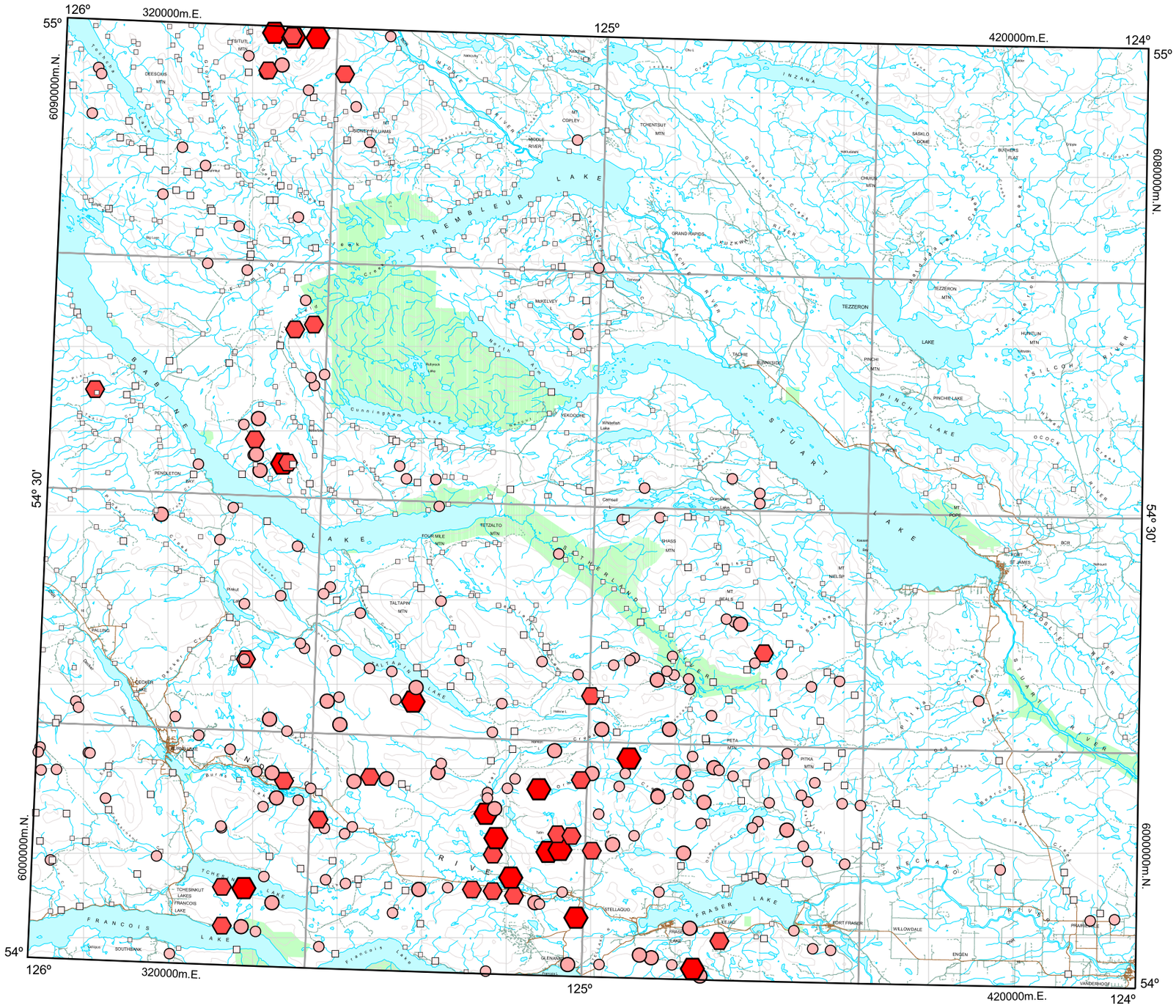

GSC Open File 1766
BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Uranium by INAA

Stream Sediment

Concentration (ppm)	Frequency
16.1 to 298.0	n = 15 (1.9%)
9.5 to 16.0	n = 25 (3.1%)
6.3 to 9.4	n = 38 (4.8%)
3.5 to 6.2	n = 150 (18.9%)
2.8 to 3.4	n = 138 (17.4%)
0.2 to 2.7	n = 429 (54.0%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

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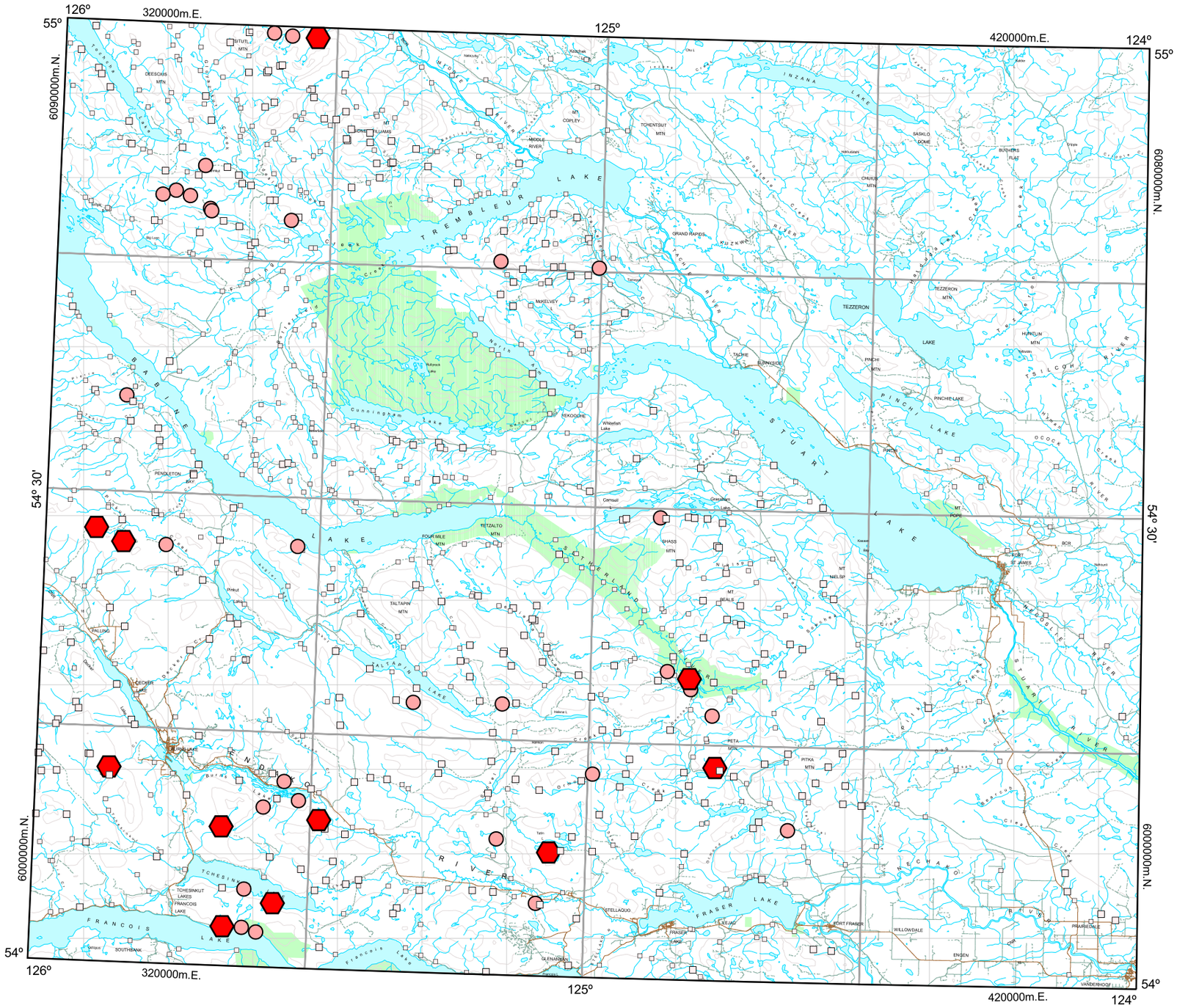
Ministry of Energy and Mines
Energy and Minerals Division
Geological Survey Branch



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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Ytterbium by INAA

Stream Sediment

Concentration	(ppm)	Frequency
5 to 11	⬢	n = 11 (1.4%)
	⬢	n = 0 (0.0%)
4 to 4	●	n = 31 (3.9%)
	●	n = 0 (0.0%)
3 to 3	□	n = 283 (35.6%)
<2 to 2	▫	n = 470 (59.1%)

795 Sample Sites

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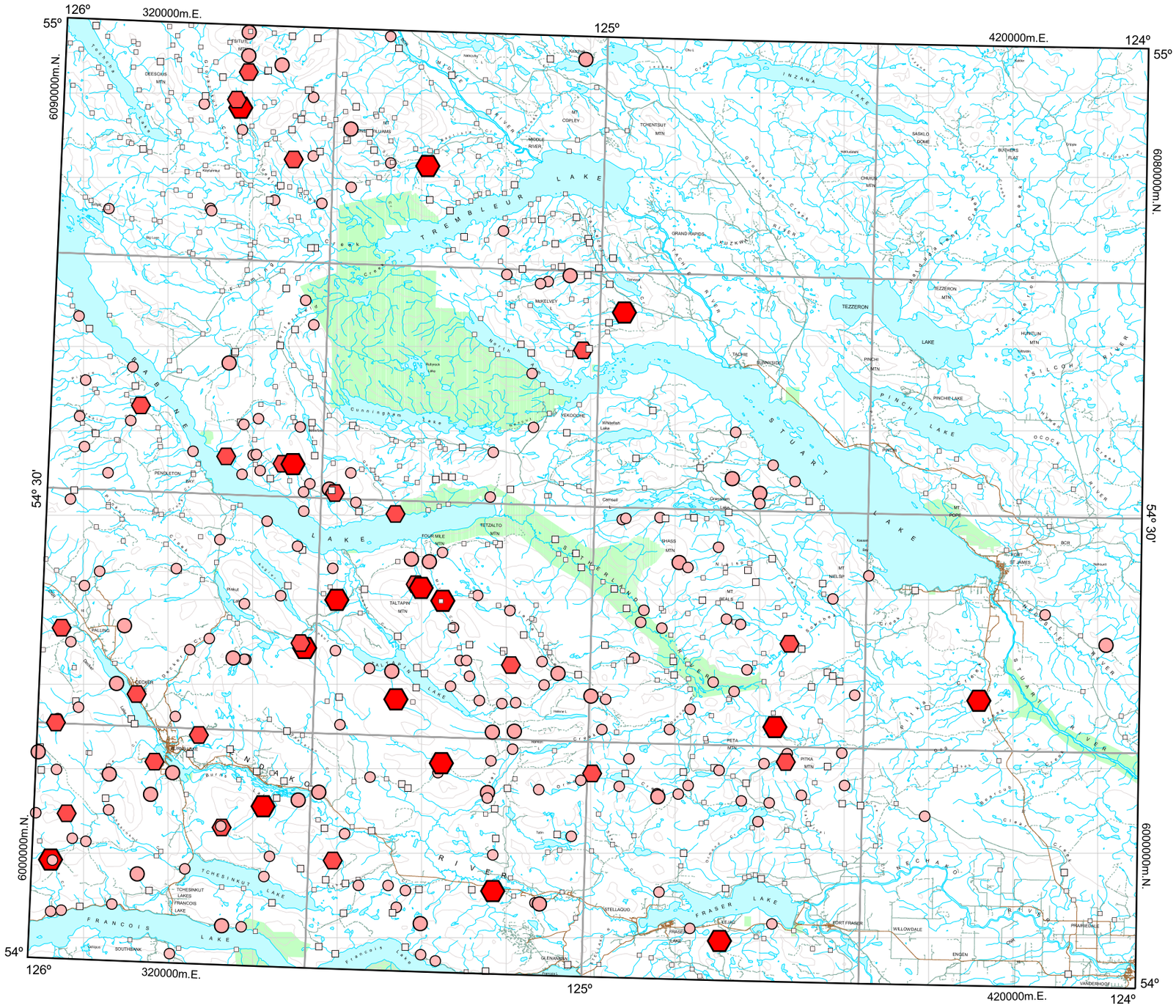

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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Fluorine by ION

Stream Sediment

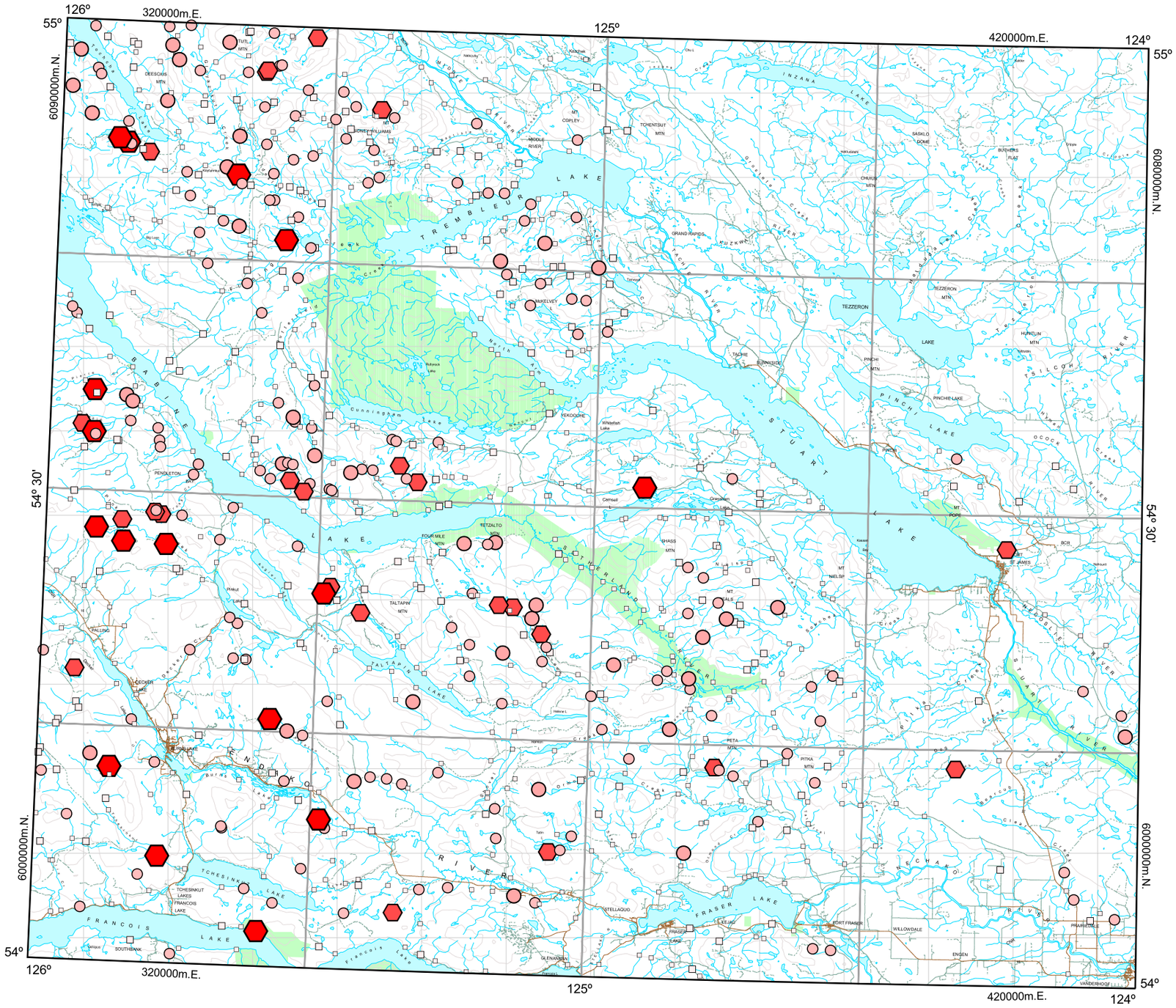
Concentration (ppm)	Frequency
471 to 630	n = 16 (2.0%)
421 to 470	n = 23 (2.9%)
391 to 420	n = 34 (4.3%)
321 to 390	n = 152 (19.1%)
281 to 320	n = 157 (19.7%)
60 to 280	n = 413 (51.9%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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



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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Loss on Ignition by GRAV

Stream Sediment

Concentration	(%)	Frequency
41.8 to 72.1		n = 16 (2.0%)
29.7 to 41.7		n = 24 (3.0%)
24.4 to 29.6		n = 38 (4.8%)
14.0 to 24.3		n = 157 (19.7%)
9.8 to 13.9		n = 161 (20.3%)
2.9 to 9.7		n = 399 (50.2%)

795 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
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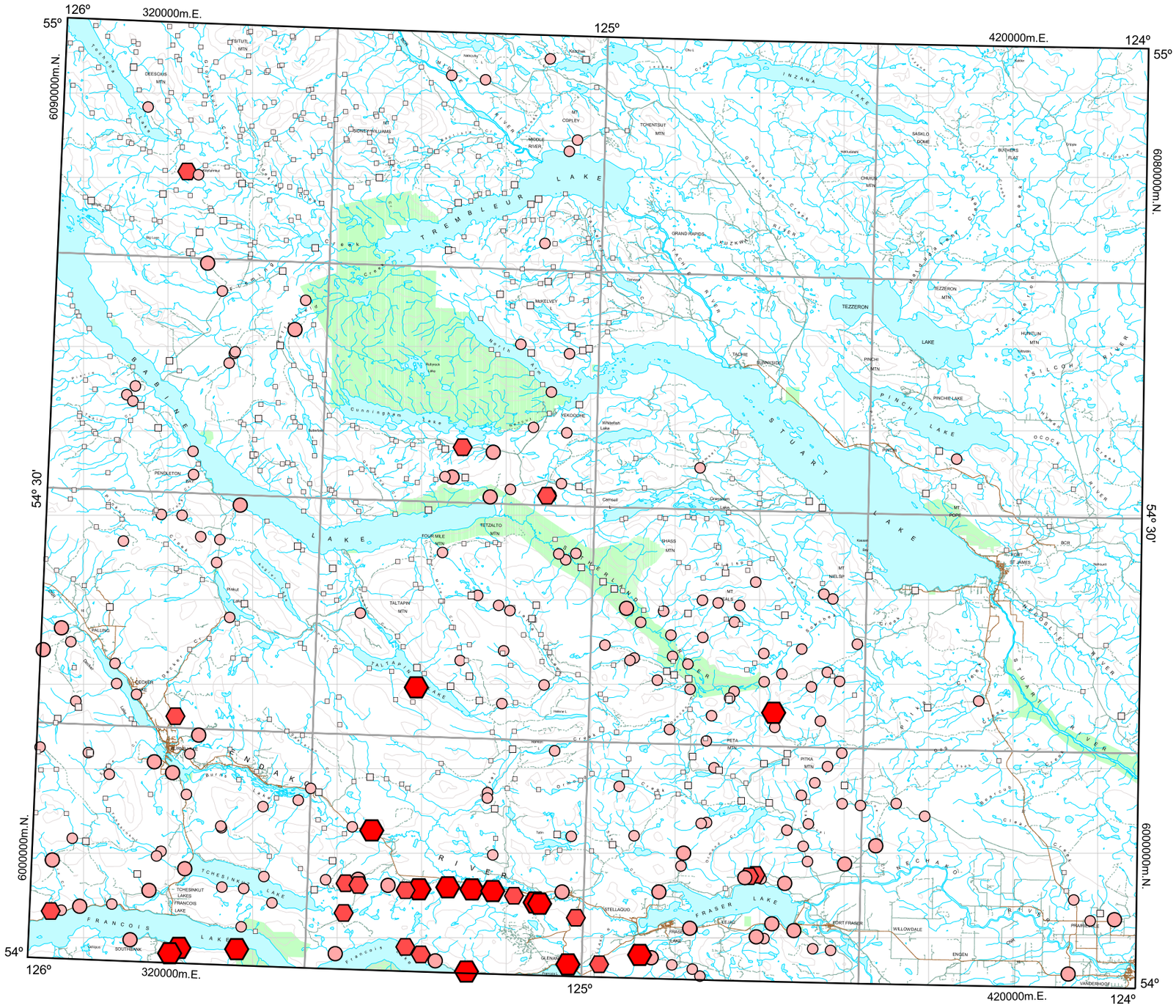
Energy and Minerals Division
Geological Survey Branch



GSC Open File 1766
BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Fluoride by ION

Stream Water

Concentration (ppb)	Frequency
211 to 840	n = 15 (2.0%)
131 to 210	n = 16 (2.2%)
91 to 130	n = 36 (4.9%)
51 to 90	n = 142 (19.2%)
41 to 50	n = 88 (11.9%)
<10 to 40	n = 444 (59.9%)

741 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
Ministry of Energy and Mines
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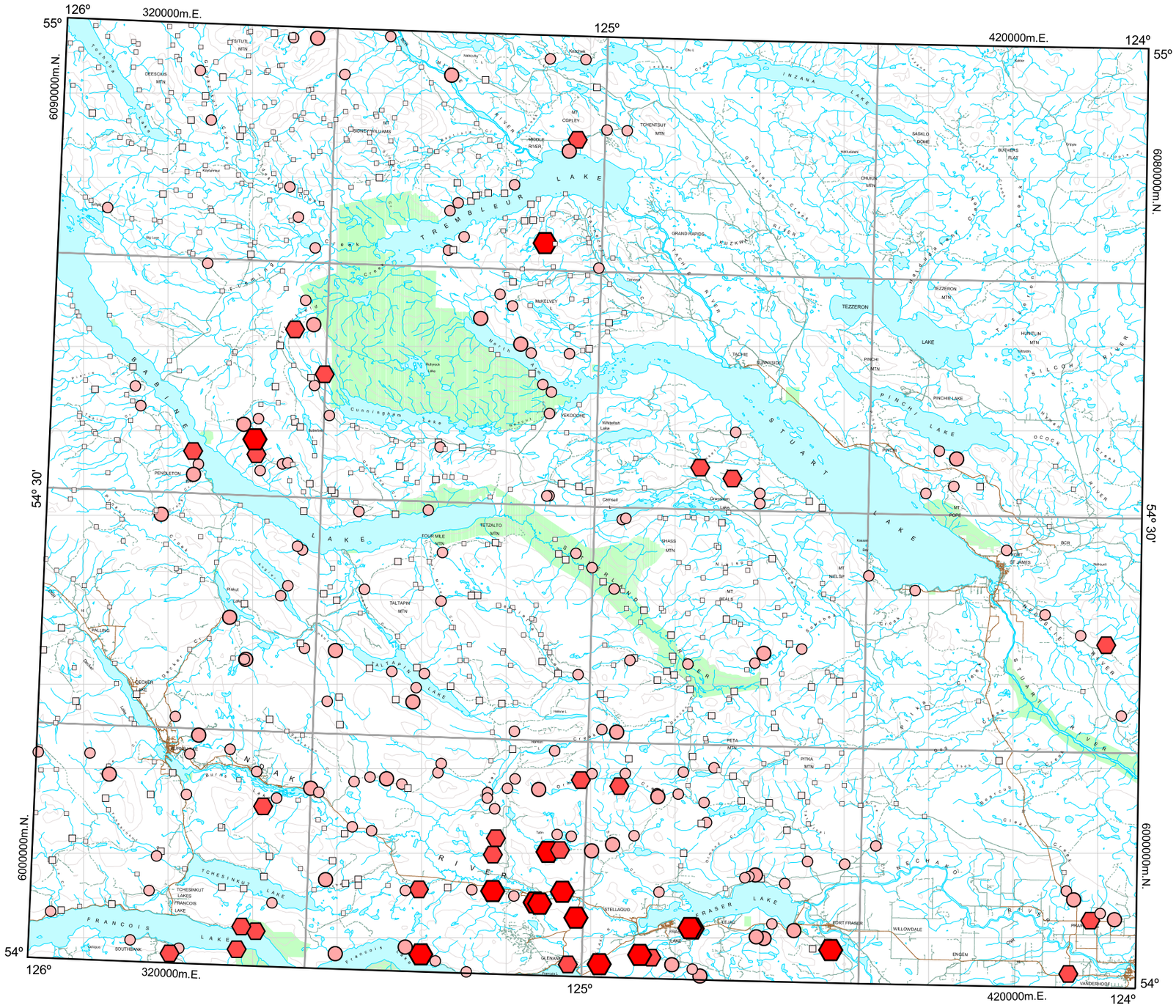
Geological Survey Branch



GSC Open File 1766
BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Uranium by ICPMS

Stream Water

Concentration (ppb)	Frequency
2.28 to 13.36	n = 15 (2.0%)
0.80 to 2.27	n = 22 (3.0%)
0.38 to 0.79	n = 37 (5.0%)
0.13 to 0.37	n = 148 (20.0%)
0.07 to 0.12	n = 148 (20.0%)
0.03 to 0.06	n = 371 (50.1%)

741 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia

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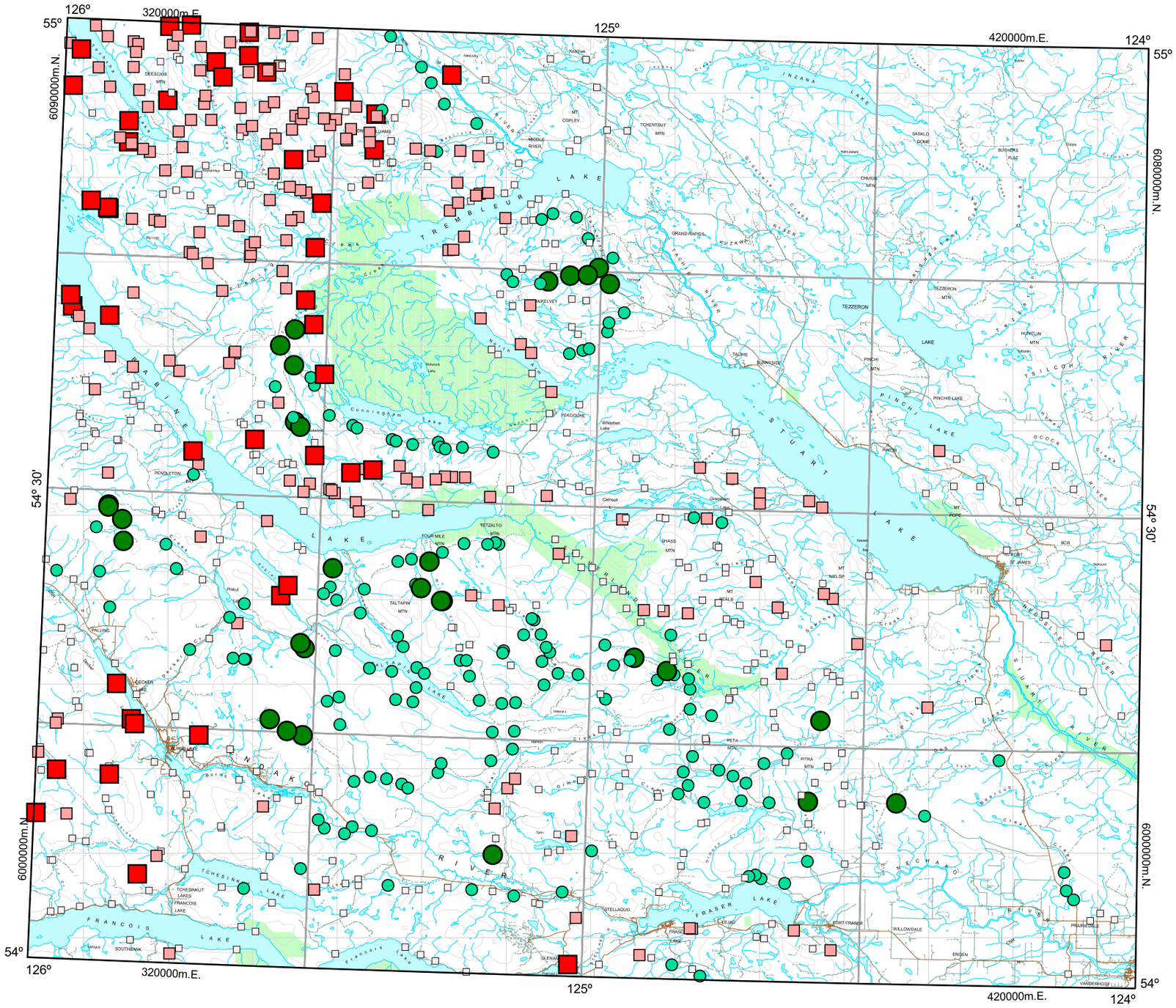
Geological Survey Branch



GSC Open File 1766
BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

pH by GCE

Stream Water

Concentration	Frequency
8.4 to 8.5	n = 36 (4.9%)
8.1 to 8.3	n = 148 (20.0%)
7.5 to 8.0	n = 366 (49.4%)
7.1 to 7.4	n = 153 (20.6%)
6.6 to 7.0	n = 38 (5.1%)

741 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

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British Columbia
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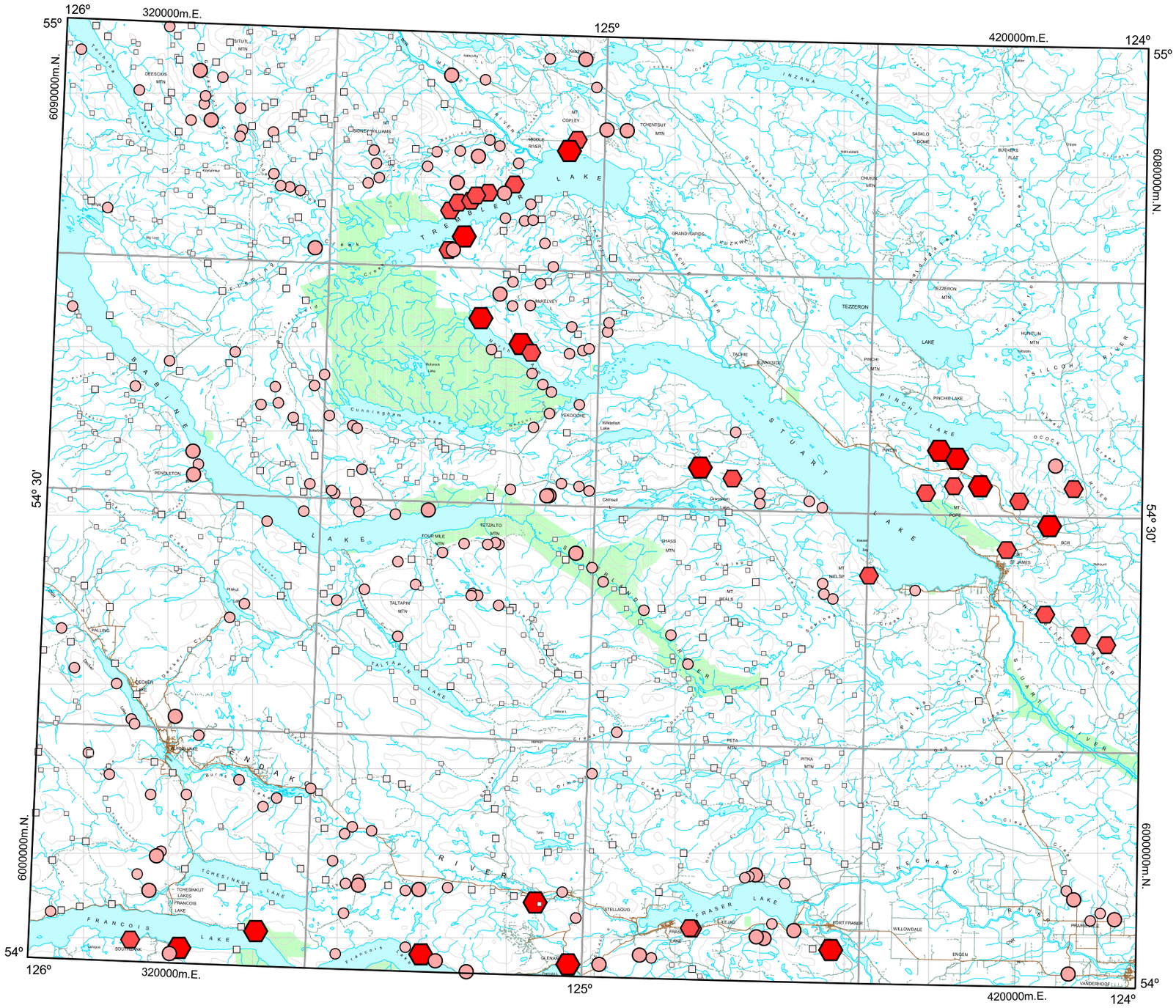
Geological Survey Branch



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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Conductivity by SNSR

Stream Water

Concentration (uS)	Frequency
465.1 to 1684.0	n = 15 (2.0%)
382.1 to 465.0	n = 22 (3.0%)
292.1 to 382.0	n = 36 (4.9%)
177.9 to 292.0	n = 149 (20.1%)
124.9 to 177.8	n = 148 (20.0%)
2.4 to 124.8	n = 371 (50.1%)

741 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
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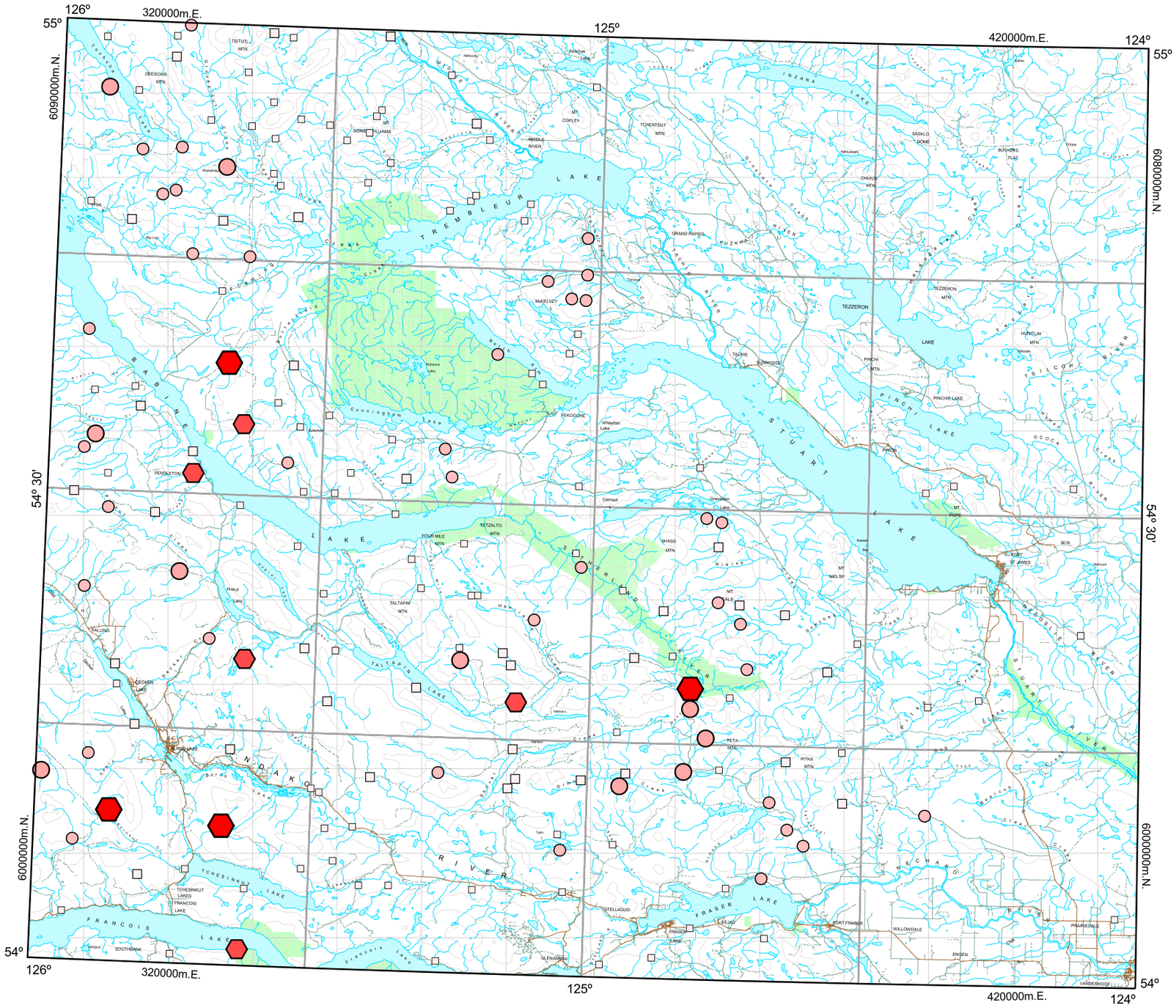
Energy and Minerals Division
Geological Survey Branch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TREMBLEUR LAKE
STUART LAKE
FRASER LAKE
FRANCOIS LAKE
TEZZERON LAKE
PINCHI LAKE
TALTAPIN LAKE
TCHESINKUT LAKE
INZANA LAKE
BABINE LAKE
SUTHERLAND RIVER
STUART RIVER
NECHAKO RIVER
NAZKO RIVER
FORT FRASER
FORT ST. JAMES
VANDERHOOF
PRINCE GEORGE
PENDLETON
MAKELVEY
TEZZERON
PINCHI LAKE
TALTAPIN
TCHESINKUT LAKE
FRANCOIS LAKE
STELLAQUO
WILLOWDALE
ENGEN
PRAIRIEDALE
GLENAVON
SOUTHBANK
FALLING
LECKIE LAKE
PETA MTN
PITKA MTN
TALTAPIN MTN
FOUR MILE MTN
TETZALTO MTN
GRAND RAPIDS
TOHENTBUT MTN
TSITUTL MTN
DEESCUS MTN
MT COPLEY
SIGNIFICANT MTN
MIDDLE RIVER
KUZKWK
TACHE
EUNNIDIS
PINCHI
PINCHI LAKE
TEZZERON MTN
HUNCLUN MTN
SASKLO BOWL
BUCHERS FLAT
CHURUS MTN
MT POPE
MT NELSIE
SHASS MTN
MT CALS
Cunningham Lake
Whitefish Lake
Carousel
Graham Lake
Kwaxwa Lake
Pitkul Lake
Burns Lake
Tatin
Helena L.
Hanson
Tsilcoh River
Ocock River
Nechako River
Stuart River
Nazko River
Nadina River
Francois Lake
Fraser Lake
Tchesinkut Lake
Tachie River
Pinchi Lake
Tezzeron Lake
Trembleur Lake
Babine Lake
Stuart Lake
Sutherland River
Takla Lake
Nation River
Kuzkwk River
Grand Rapids
Cunningham Lake
Tsitutl Mtn
Deescus Mtn
Mt Copley
Significant Mtn
Middle River
Tohentbut Mtn
Inzana Lake
Saskio Bowl
Buchers Flat
Churus Mtn
Tezzeron Mtn
Hunclun Mtn
Makelvey
Pendleton
Pinchi Lake
Pinchi
Mt Pope
Mt Nelsie
Shass Mtn
Mt Cals
Four Mile Mtn
Tetzalto Mtn
Taltapin Mtn
Falling
Leckie Lake
Peta Mtn
Pitka Mtn
Tchesinkut Lakes
Francois Lake
Stellaquo
Willowdale
Engen
Prairiedale
Glenavon
Southbank
Fraser Lake
Fort Fraser
Vanderhoof
Prince George
Fort St. James
Nechako River
Stuart River
Nadina River
Nazko River
Tsilcoh River
Ocock River
Tachie River
Pinchi Lake
Tezzeron Lake
Trembleur Lake
Babine Lake
Stuart Lake
Sutherland River
Takla Lake
Nation River
Kuzkwk River
Grand Rapids
Cunningham Lake
Whitefish Lake
Carousel
Graham Lake
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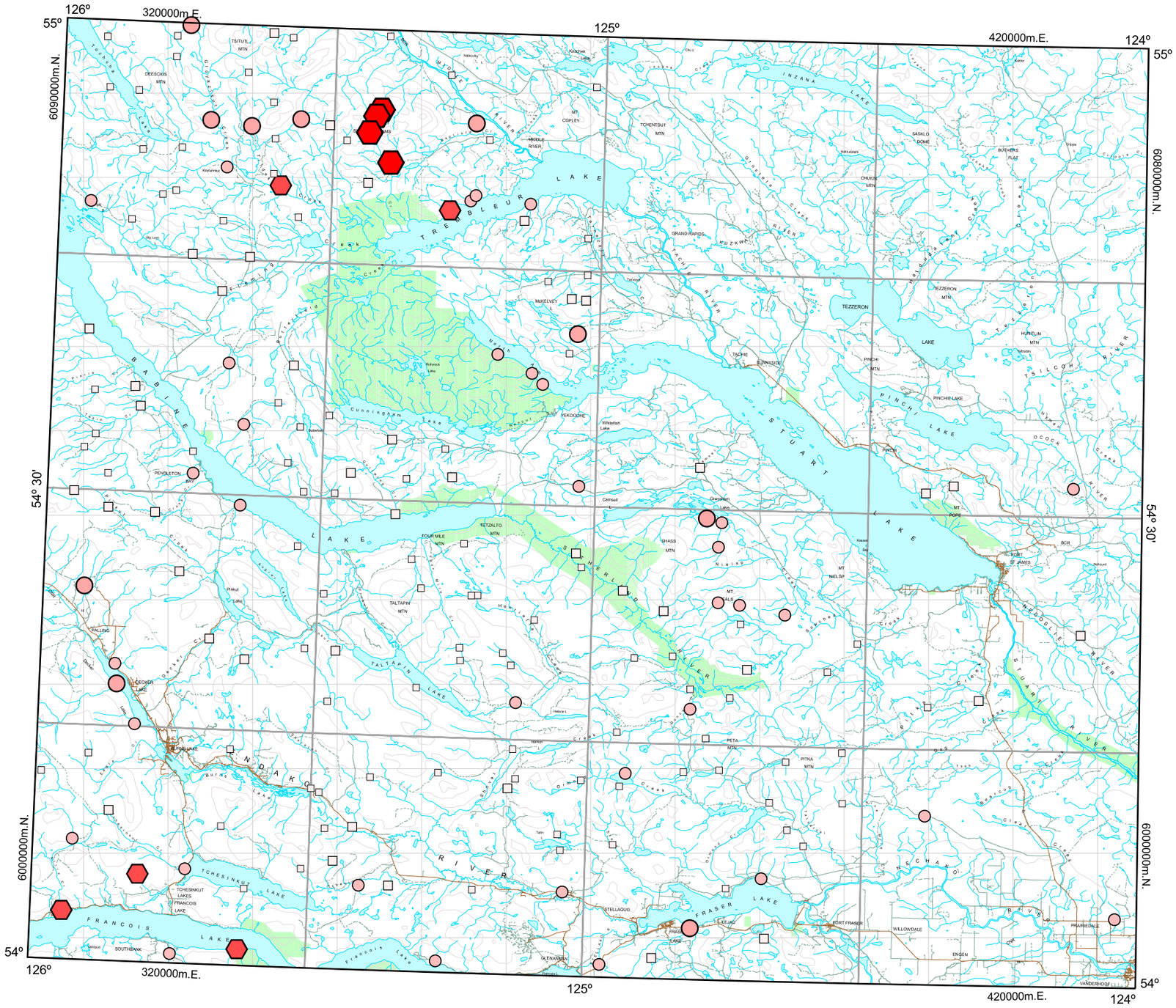

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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Antimony by ICPMS

Stream Water

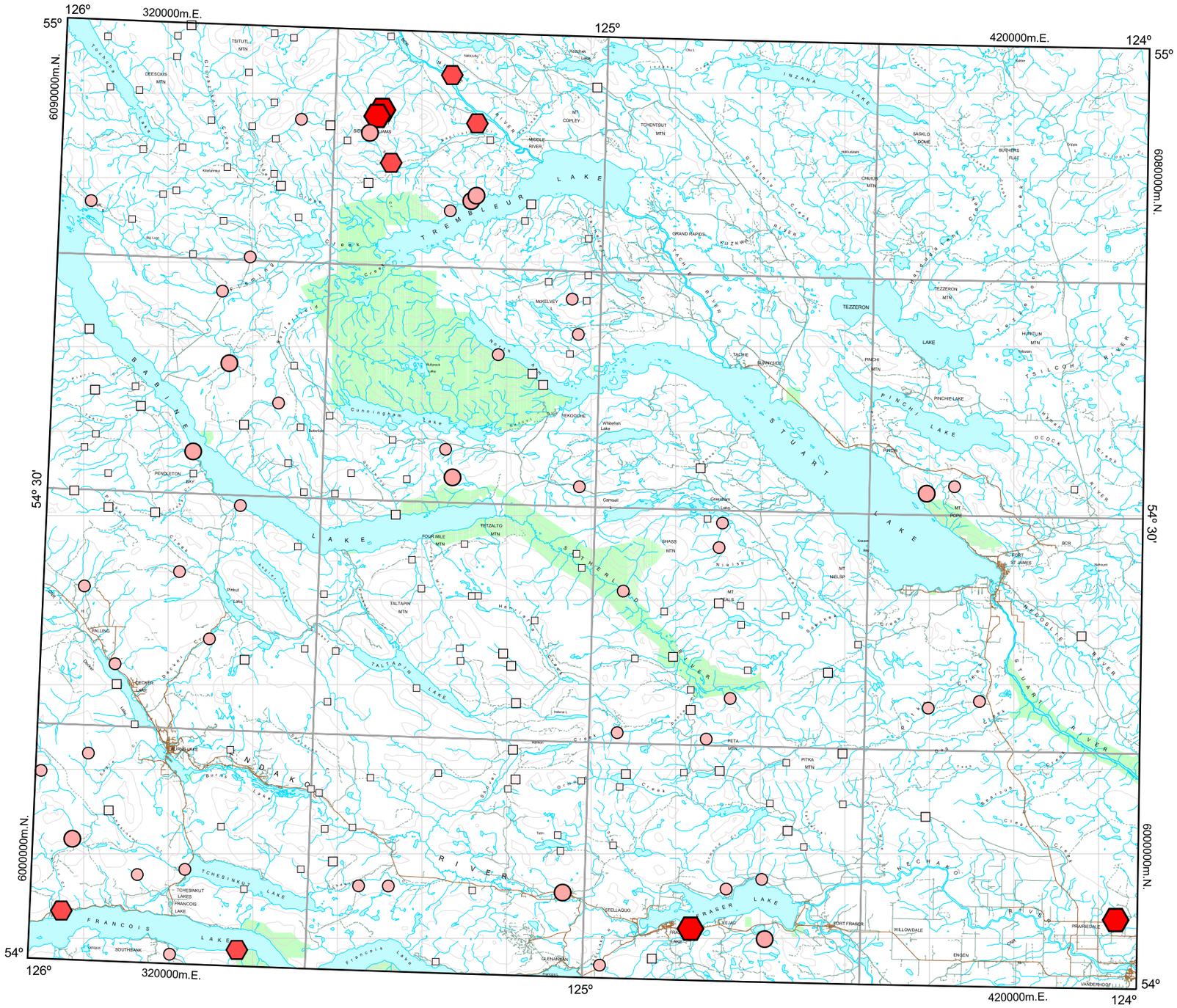
Concentration (ppb)	Frequency
0.17 to 0.72	n = 4 (2.2%)
0.12 to 0.16	n = 5 (2.7%)
0.08 to 0.11	n = 10 (5.4%)
0.05 to 0.07	n = 34 (18.3%)
0.04 to 0.04	n = 40 (21.5%)
<0.01 to 0.03	n = 93 (50.0%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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



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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Arsenic by ICPMS

Stream Water

Concentration (ppb)	Frequency
1.55 to 5.09	n = 4 (2.2%)
1.06 to 1.54	n = 5 (2.7%)
0.74 to 1.05	n = 10 (5.4%)
0.32 to 0.73	n = 35 (18.8%)
0.22 to 0.31	n = 37 (19.9%)
<0.10 to 0.21	n = 95 (51.1%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
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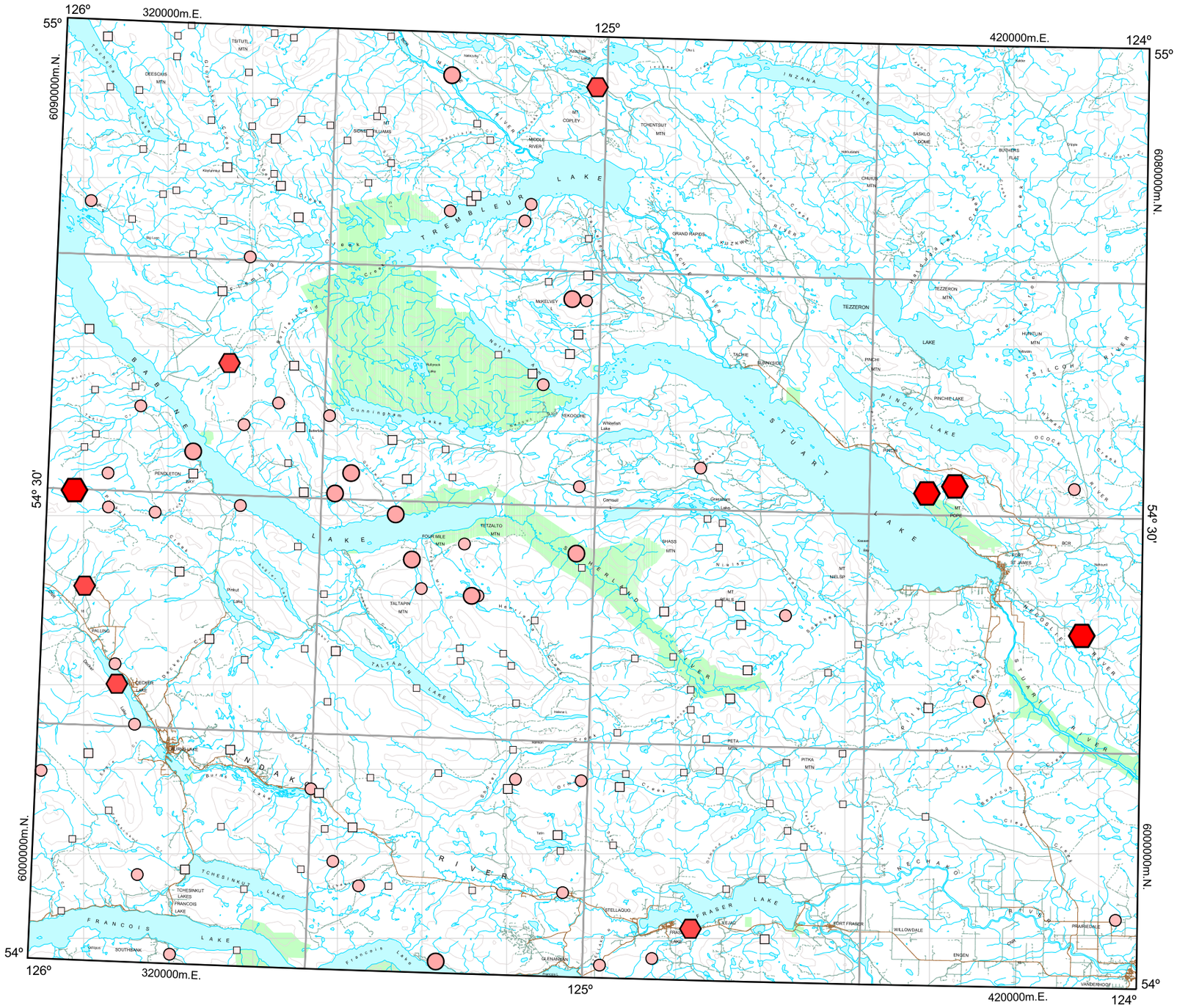

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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Barium by ICPMS

Stream Water

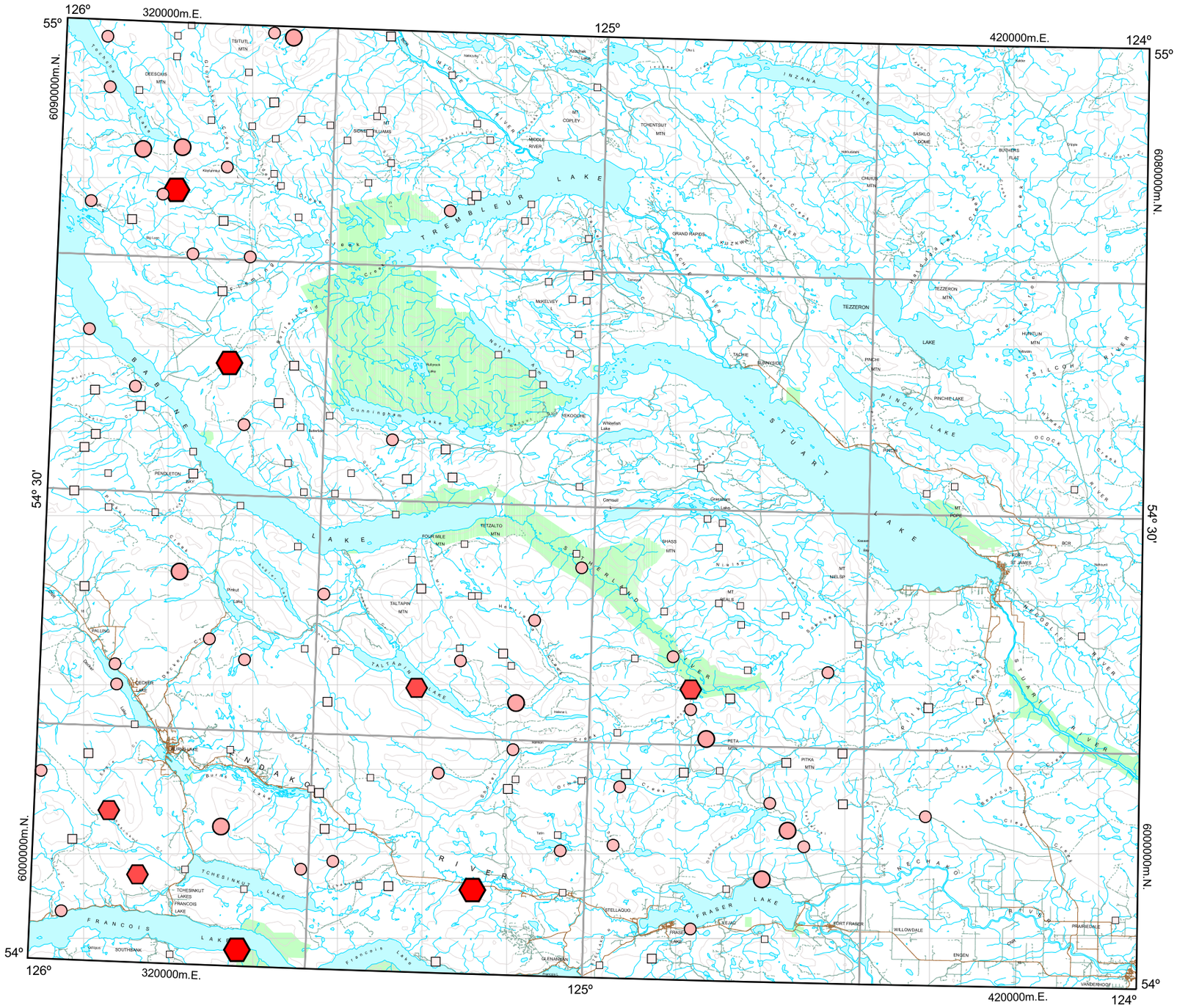
Concentration	(ppb)	Frequency
90.5 to 271.9		n = 4 (2.2%)
64.2 to 90.4		n = 5 (2.7%)
49.1 to 64.1		n = 10 (5.4%)
23.6 to 49.0		n = 37 (19.9%)
17.1 to 23.5		n = 37 (19.9%)
0.7 to 17.0		n = 93 (50.0%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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



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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Beryllium by ICPMS

Stream Water

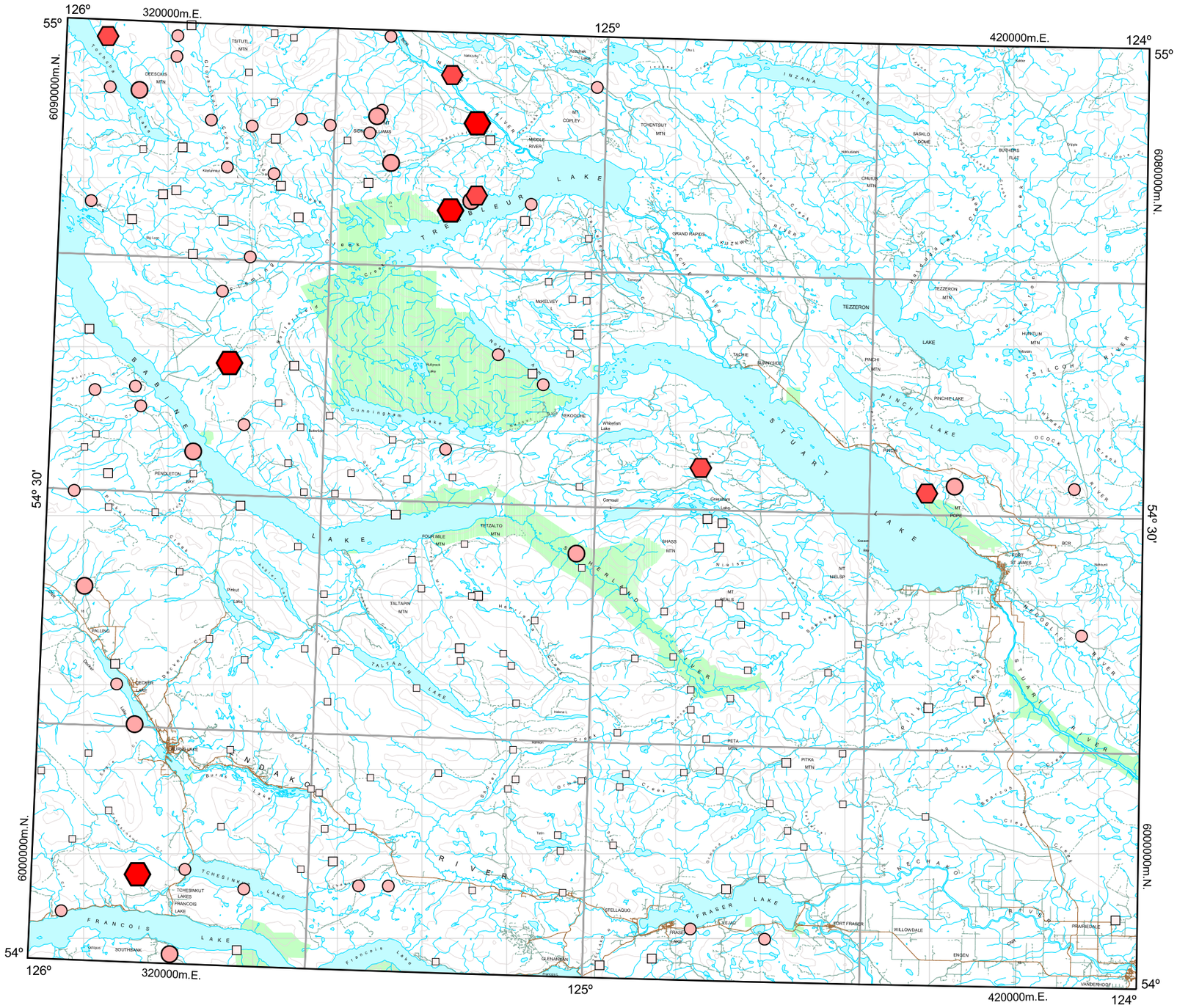
Concentration (ppb)	Frequency
0.033 to 0.071	n = 4 (2.2%)
0.026 to 0.032	n = 5 (2.7%)
0.019 to 0.025	n = 10 (5.4%)
0.011 to 0.018	n = 37 (19.9%)
0.007 to 0.010	n = 37 (19.9%)
0.005 to 0.006	n = 93 (50.0%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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



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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Boron by ICPMS

Stream Water

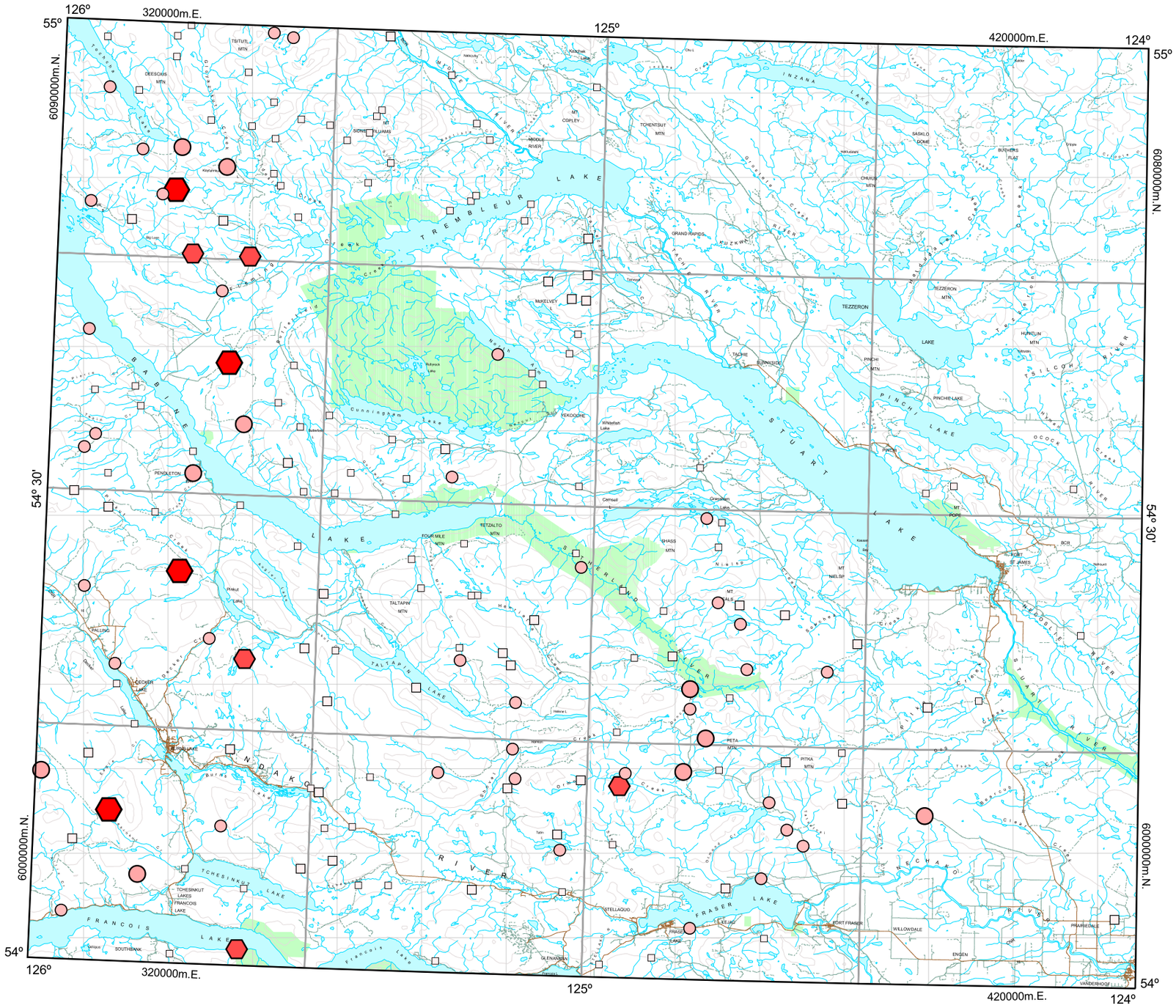
Concentration (ppb)	Frequency
13.1 to 87.4	n = 4 (2.2%)
5.5 to 13.0	n = 5 (2.7%)
3.5 to 5.4	n = 10 (5.4%)
1.7 to 3.4	n = 37 (19.9%)
1.1 to 1.6	n = 37 (19.9%)
0.5 to 1.1	n = 93 (50.0%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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



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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Cerium by ICPMS

Stream Water

Concentration (ppb)	Frequency
0.72 to 1.49	n = 4 (2.2%)
0.59 to 0.71	n = 5 (2.7%)
0.43 to 0.58	n = 10 (5.4%)
0.17 to 0.42	n = 36 (19.4%)
0.10 to 0.16	n = 38 (20.4%)
<0.01 to 0.09	n = 93 (50.0%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
Ministry of Energy and Mines
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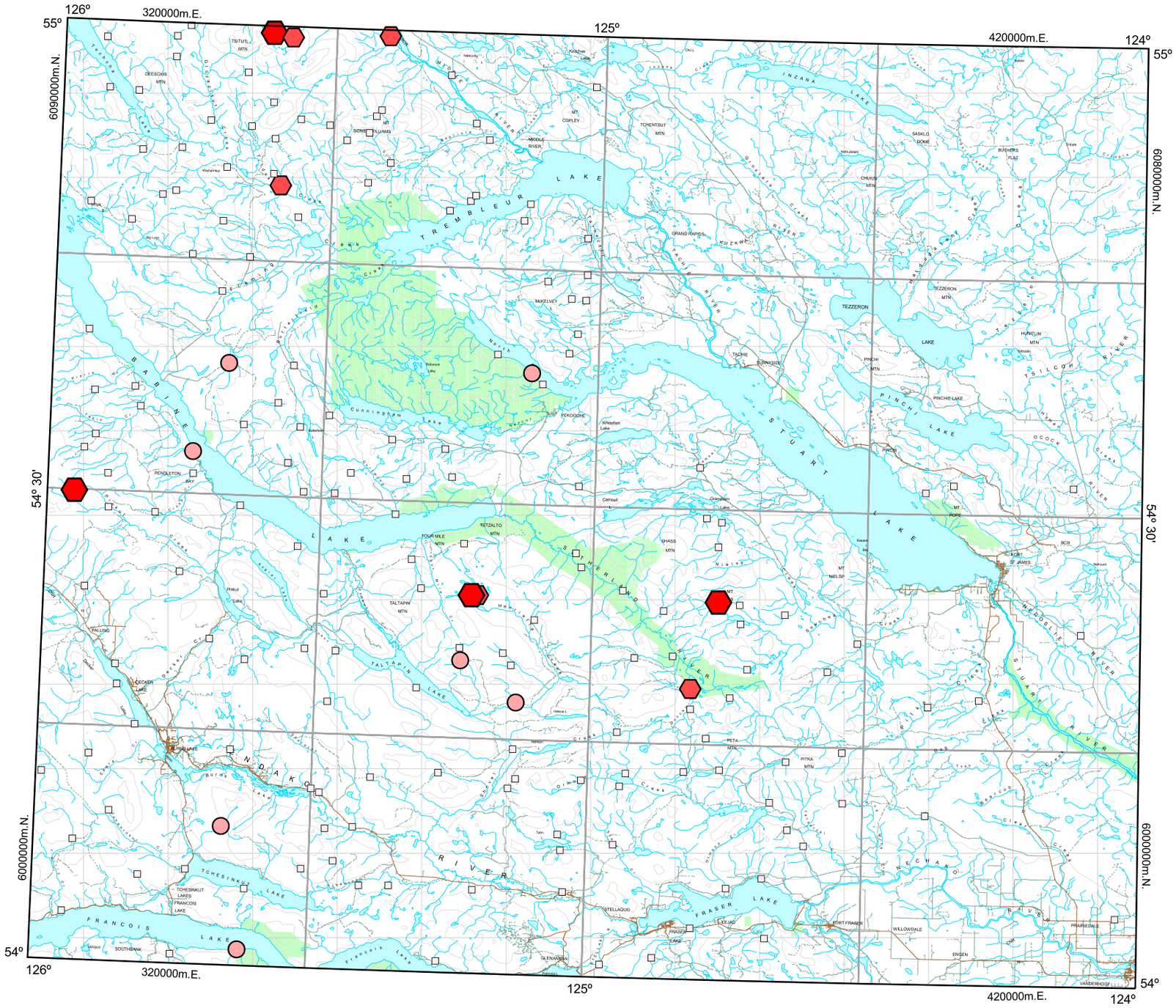
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TREMBLEUR LAKE
STUART LAKE
FRASER LAKE
FRANCOIS LAKE
TEZZERON LAKE
PINCHI LAKE
TALTAPIN LAKE
TCHESINKUT LAKE
INZANA LAKE
BABINE LAKE
NATALKUZ LAKE
SUTHERLAND RIVER
NECHAKO RIVER
NAZKO RIVER
TACHE RIVER
TSILCOH RIVER
OGDEN RIVER
NEDOSLILE RIVER
STUART RIVER
FORT FRASER
FORT ST. JAMES
VANDERHOOF
PRAFIEDALE
WILLOWDALE
ENGEN
STELLAQUO
GLENAVON
SOUTHBANK
TEZZERON MTN
PINCHI MTN
PINCHI LAKE
TACHE
EUNNIDIS
GRAND RAPIDS
MIDDLE RIVER
MIDDLE RIVER
MAKELVEY
TEXKOCHE
Whitefish Lake
Cunningham Lake
PENDLETON BAY
TETZALTO MTN
FOUR MILE MTN
SHASS MTN
TALTAPIN MTN
PETA MTN
PITKA MTN
MT NIELSEN
MT POPE
BCR
DECKER LAKE
FALLING
TOHEENKUT LAKES
FRANCOIS LAKE
TSITUTL MTN
DEESCUS MTN
MT COPLEY
TOHENTBUT MTN
SASKLO BONE
BUCHERS FLAT
CHUTUS MTN
HUNCLUN MTN
Kuzkwa Lake
Tezzeron Lake
Pinchi Lake
Tachie Lake
Cunningham Lake
Whitefish Lake
Cemetery
Graveyard Lake
Kwaxwa Lake
Pitkul Lake
Pitka Lake
Tatin Lake
Francois Lake
Fraser Lake
Stellaquo Lake
Tsitsuk Lake
Tsitsuk River
Ogden Creek
Nedoslile River
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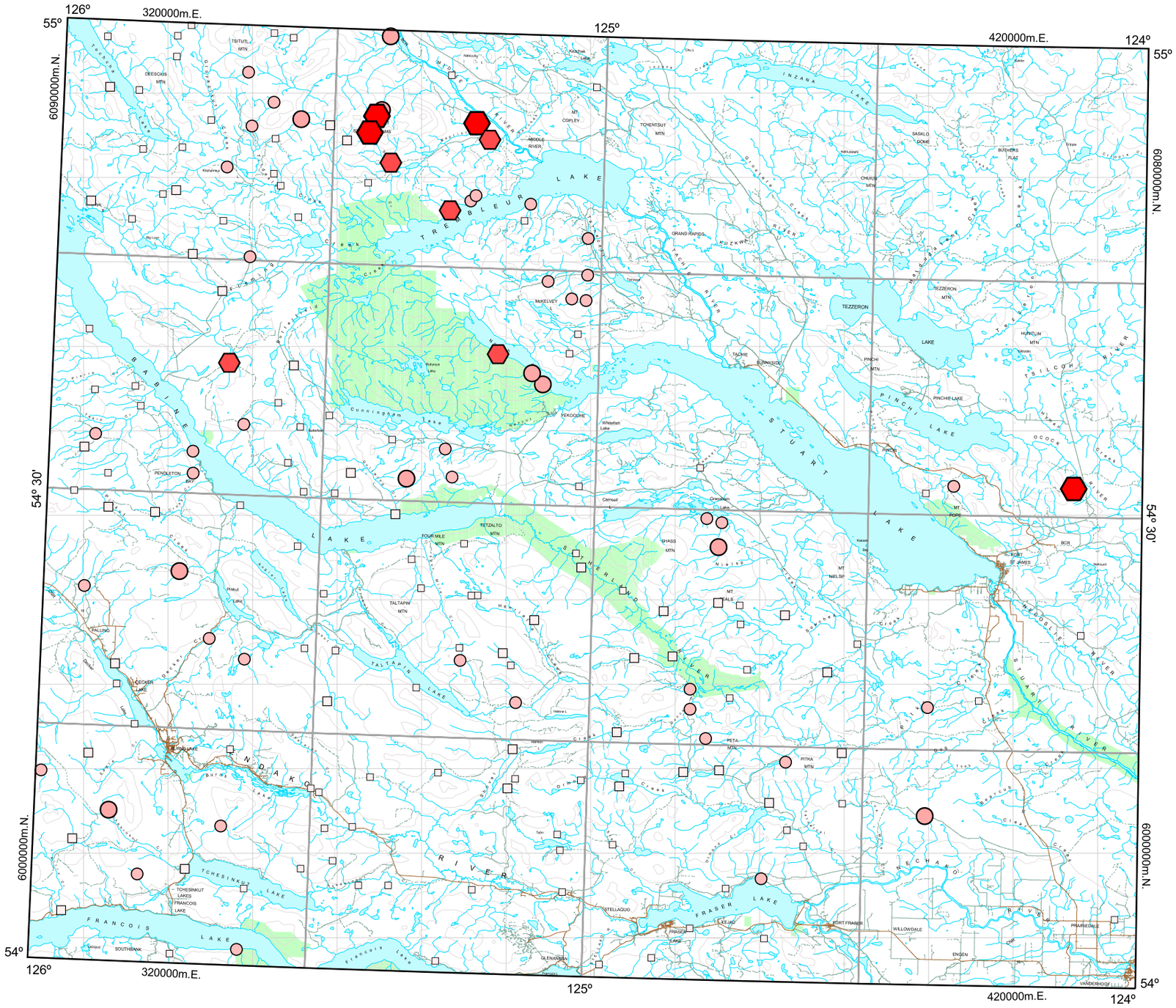
Tsitsuk River
Ogden River



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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Chromium by ICPMS

Stream Water

Concentration (ppb)	Frequency
1.9 to 3.3	n = 4 (2.2%)
0.9 to 1.8	n = 5 (2.7%)
0.7 to 0.8	n = 10 (5.4%)
0.4 to 0.6	n = 37 (19.9%)
0.3 to 0.3	n = 36 (19.4%)
<0.1 to 0.2	n = 94 (50.5%)

186 Sample Sites

Natural Resources Canada Ressources naturelle Canada
Canada

British Columbia
Ministry of Energy and Mines
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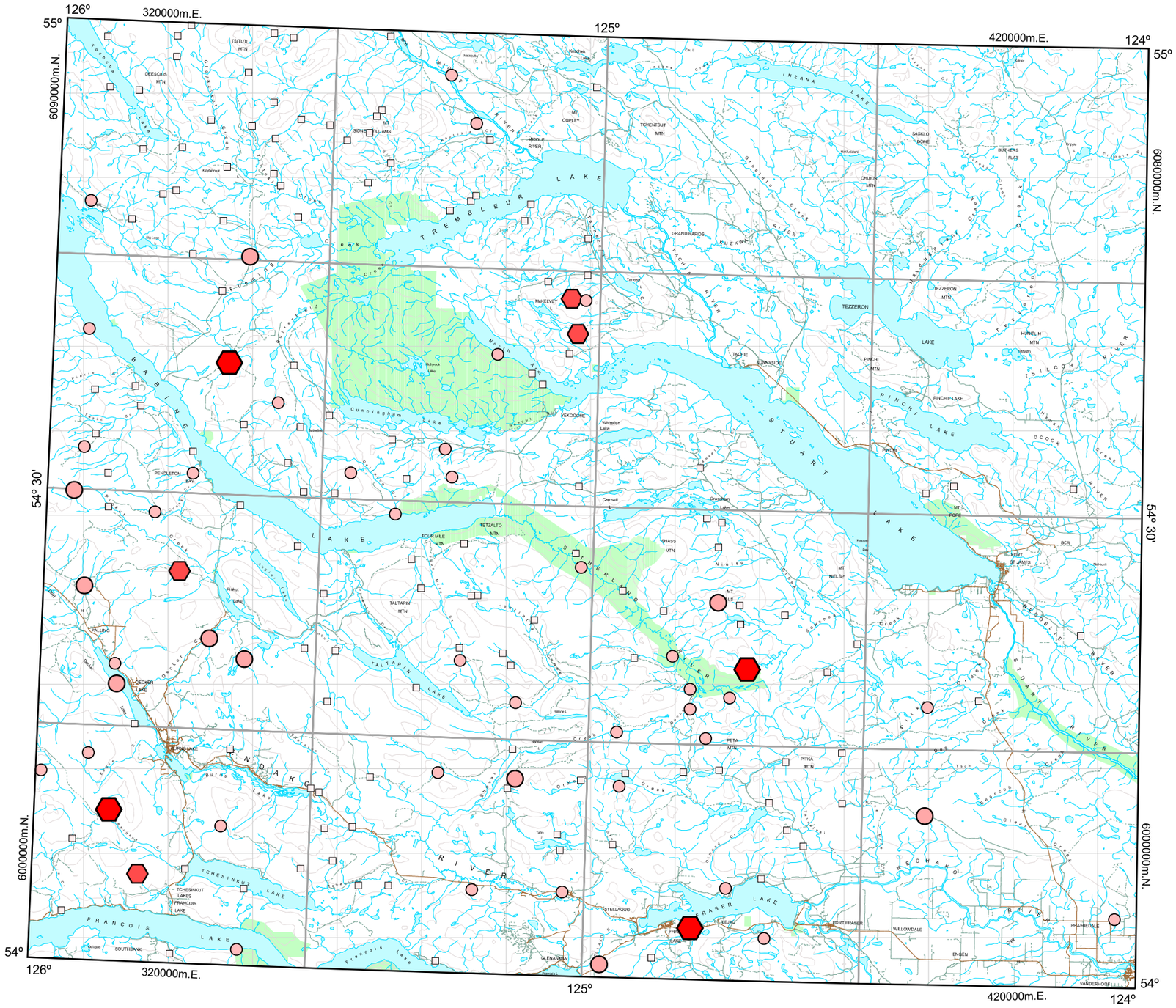

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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Cobalt by ICPMS

Stream Water

Concentration (ppb)	Frequency
0.27 to 1.37	n = 4 (2.2%)
0.18 to 0.26	n = 5 (2.7%)
0.13 to 0.17	n = 10 (5.4%)
0.05 to 0.12	n = 35 (18.8%)
	n = 0 (0.0%)
<0.05	n = 132 (71.0%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
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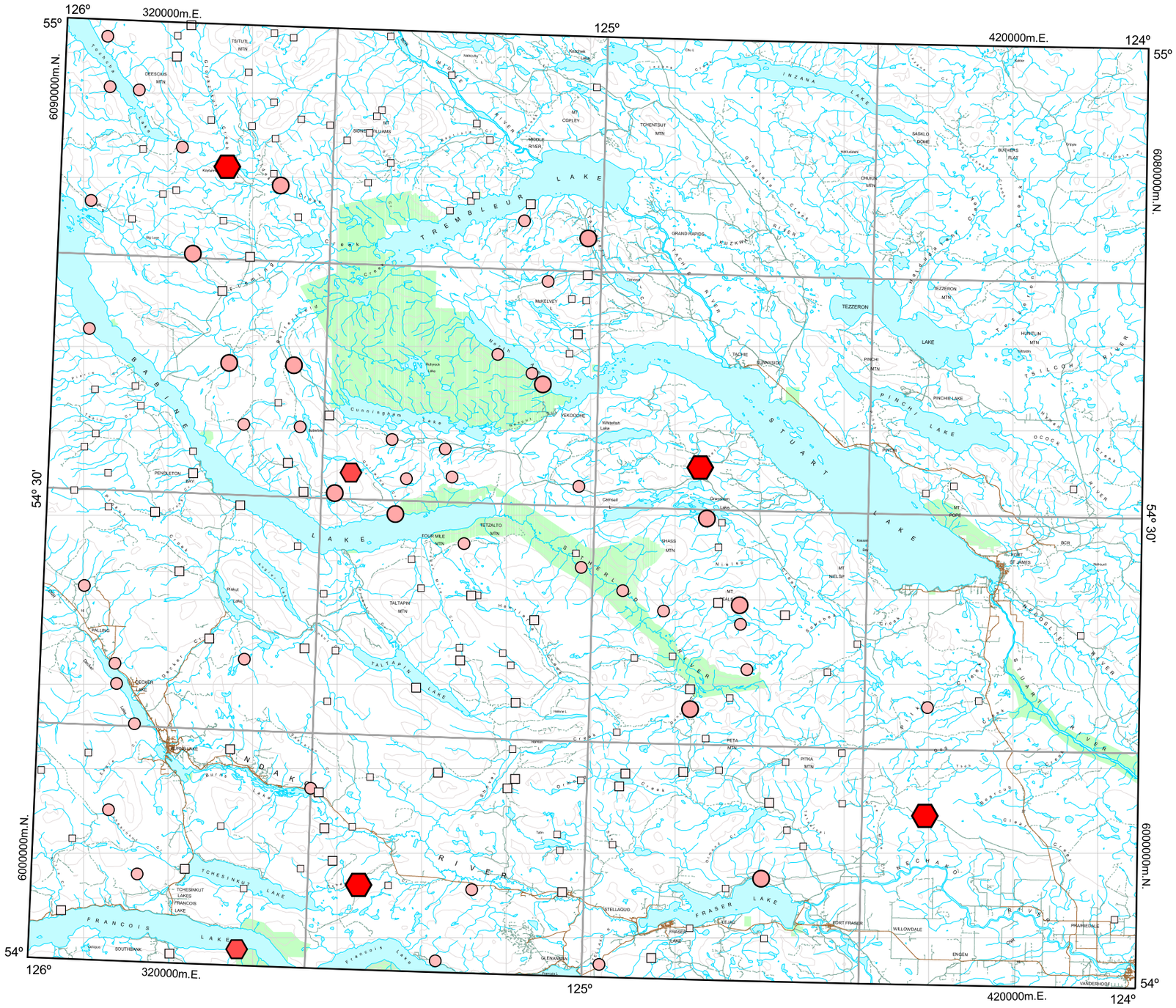

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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Copper by ICPMS

Stream Water

Concentration (ppb)	Frequency
3.8 to 4.3	n = 4 (2.2%)
2.4 to 3.7	n = 5 (2.7%)
1.7 to 2.3	n = 10 (5.4%)
1.2 to 1.6	n = 37 (19.9%)
0.8 to 1.1	n = 37 (19.9%)
0.1 to 0.7	n = 93 (50.0%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
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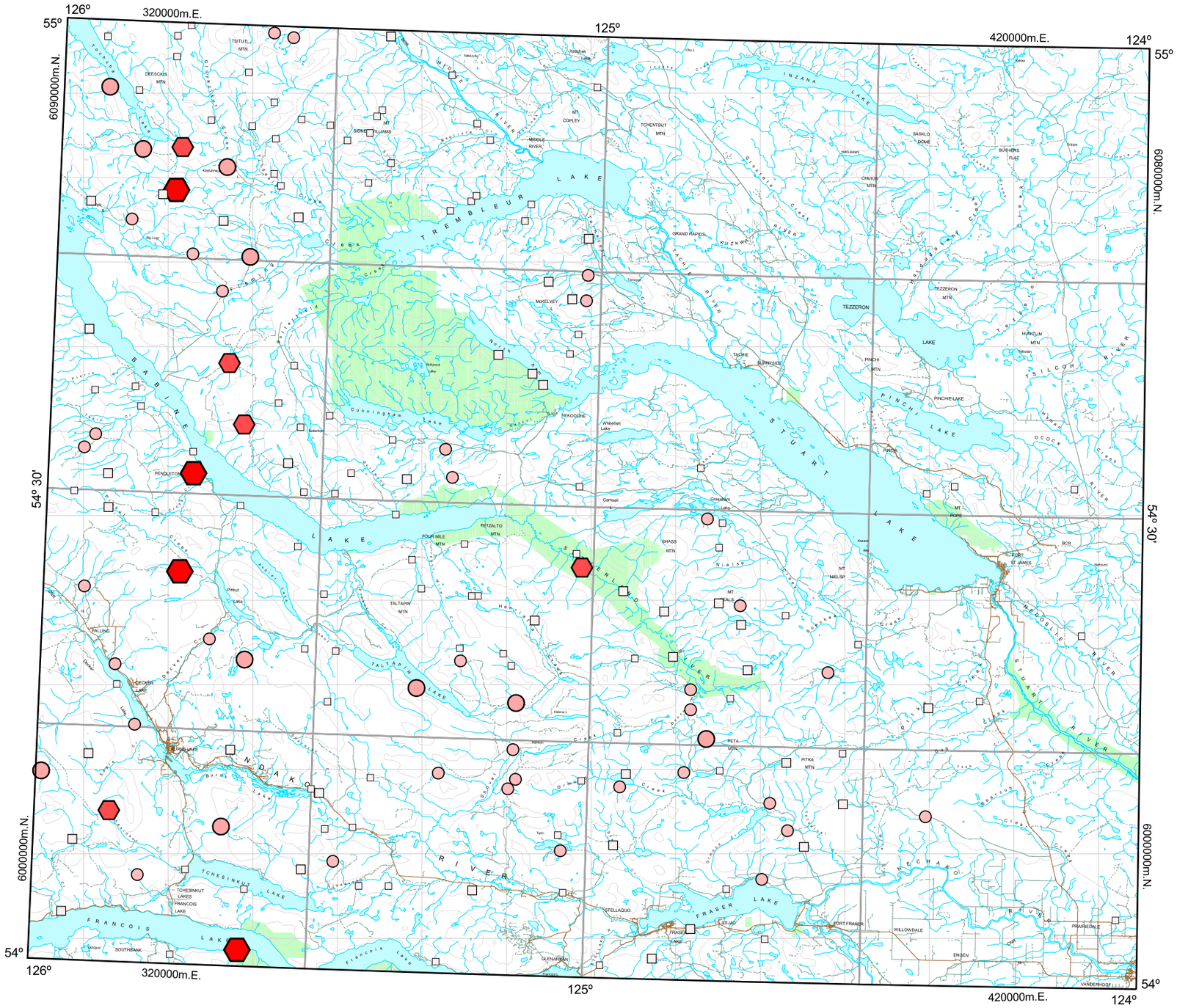
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TREMBLEUR LAKE
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TEZZERON LAKE
PINCHI LAKE
TALTAPIN LAKE
TCHESINKUT LAKE
INZANA LAKE
BABINE LAKE
NADAKO
STERLING
FRASER RIVER
STUART RIVER
NECHAKO RIVER
NECHAKO
PRINCE GEORGE
FORT FRASER
FORT ST. JAMES
VANDERHOOF
PENDLETON
MAKELVEY
TEZZERON
PINCHI LAKE
TEZALTO MTN
TALTAPIN MTN
PETA MTN
PITKA MTN
STELLAQUO
WILLOWDALE
ENGEN
PRAIRIEDALE
GLENANNAN
SOUTHBANK
TCHESINKUT LAKES
FRANCOIS LAKE
DEESCUS MTN
TSITUTL MTN
MT COPLEY
TOHENTBUT MTN
GRAND RAPIDS
TEXKOCHE
TACHE
EUNNIDIS
PINCHI
MT POPE
MT NELSIE
MT TALS
SHASS MTN
FOUR MILE MTN
TEZZERON MTN
HUNCLUN MTN
PINCHI MTN
CHUTOS MTN
SASKLO BOWL
BUCHERS FLAT
MIDDLE RIVER
SIDNEY HUMAS MT
Cunningham Lake
Whitefish Lake
Carnaul
Grassman Lake
Kuzkwa
Tachie River
Pinchi Creek
Ogden Creek
Tsilcoh River
Nechako River
Stuart River
Nadakwa River
Nadakwa Lake
Francois Lake
Tchesinkut Lake
Fraser Lake
Stellaquo Creek
Stellaquo Lake
Fraser River
Nechako River
Prairie Creek
Willowdale Creek
Engen Creek
Pitka Creek
Peta Creek
Shass Creek
Nielsen Creek
Tezzeron Creek
Pinchi Lake
Pinchi Creek
Ogden Creek
Tsilcoh River
Stuart River
Nadakwa River
Nadakwa Lake
Tachie River
Kuzkwa River
Grand Rapids
Tezzeron Lake
Tezzeron Creek
Hunclun Mtn
Chutos Mtn
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Tohentbut Mtn
Sidney Humas Mt
Babine Lake
Pendleton
Makelvey
Texkoche
Whitefish Lake
Cunningham Lake
Carnaul
Grassman Lake
Four Mile Mtn
Tezalto Mtn
Shass Mtn
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Prince George
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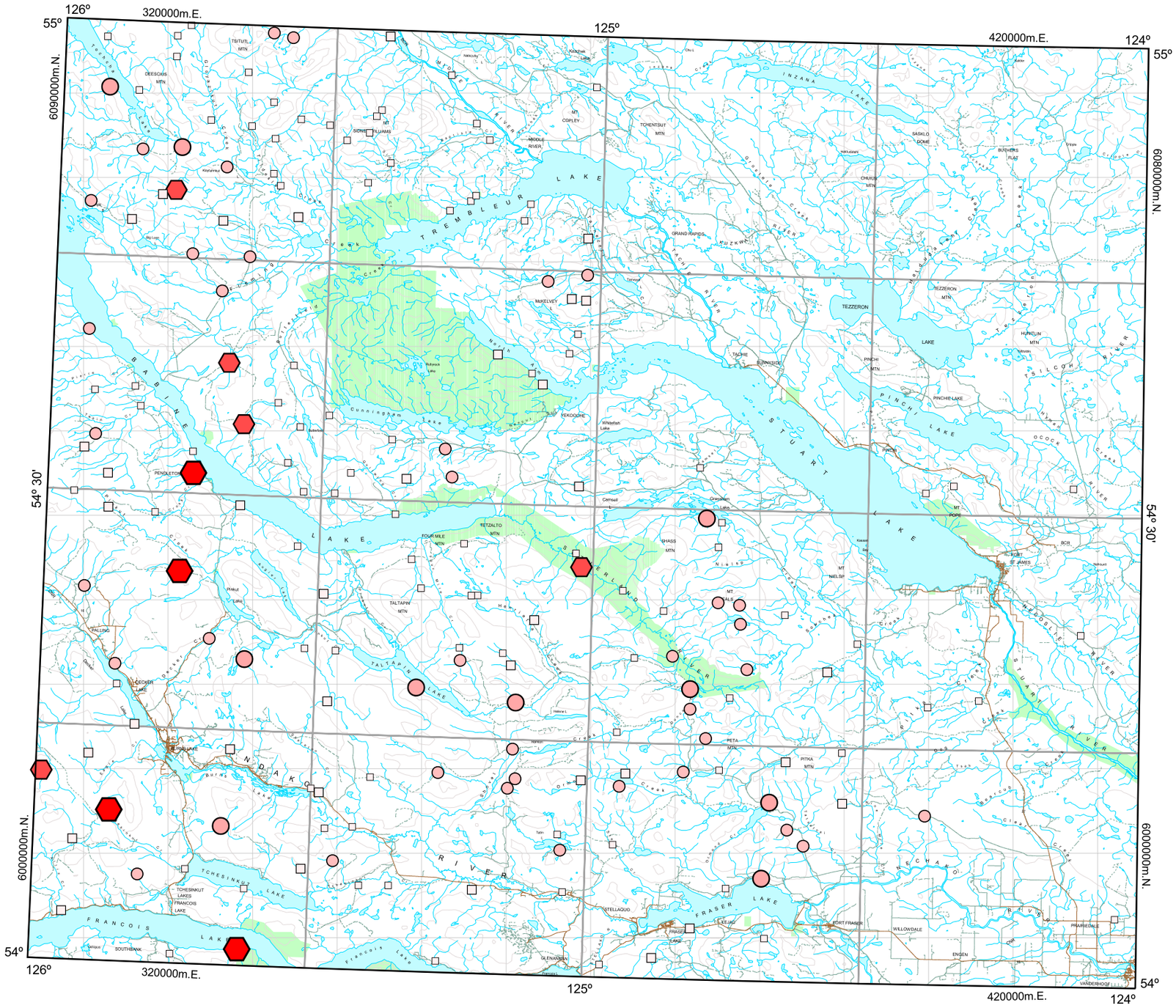
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MT POPE
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Camsell
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Kuzkwe Lake
Tachie Lake
Tezzeron Lake
Pinchi Lake
Tsitutl Lake
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Nechako River
Stuart River
Fraser River
Tsilcoh River
Ocock River
Cheslatta River
Tachie River
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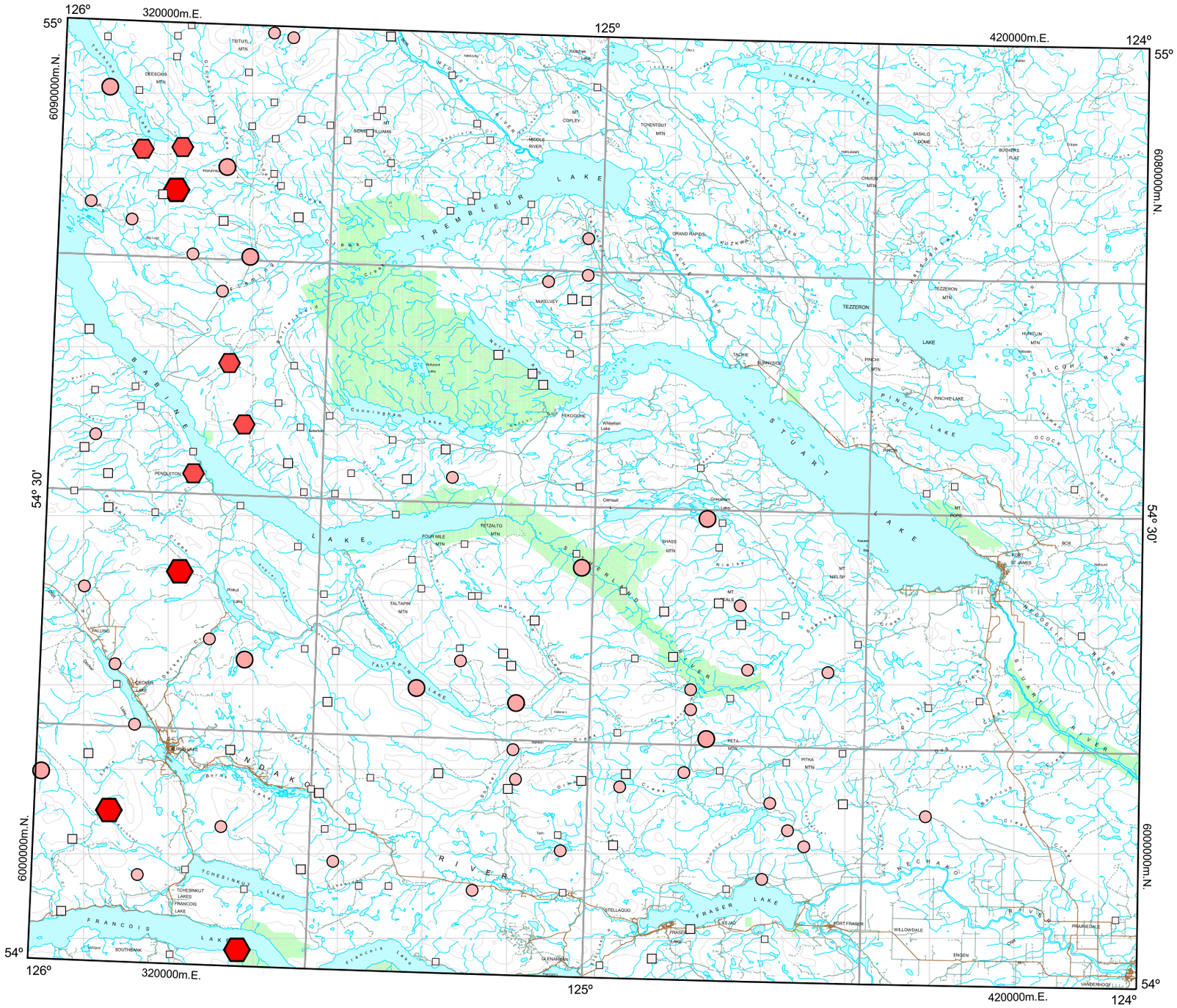
Trembleur Lake
Babine Lake
Stuart Lake
Fraser Lake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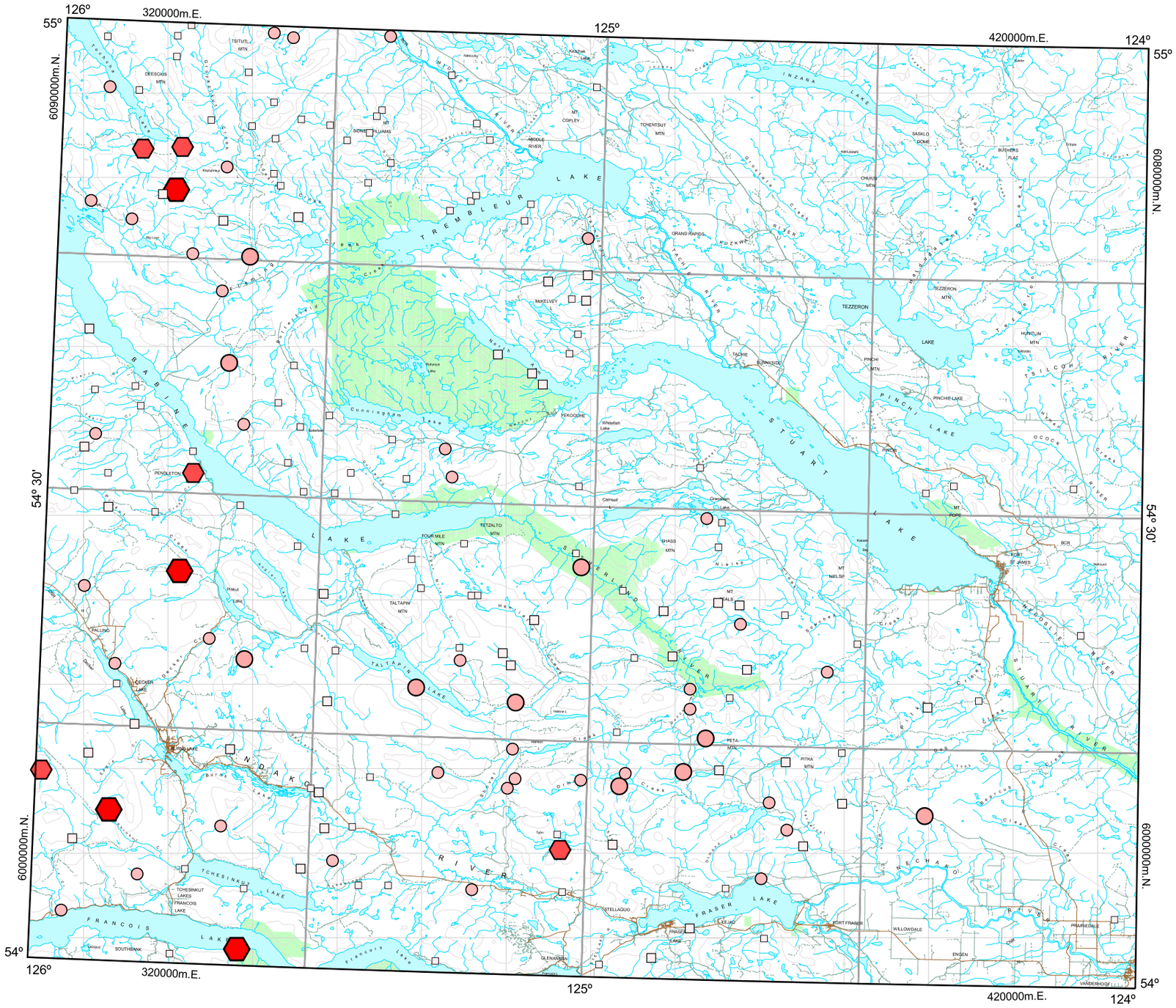
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MAKELVEY
GRAND RAPIDS
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PINCHI
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PINCHE LAKE
TSILCH RIVER
OGDEN RIVER
NEDOSLIE RIVER
MIDDLE RIVER
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TSITUTL MTN
DEESCUS MTN
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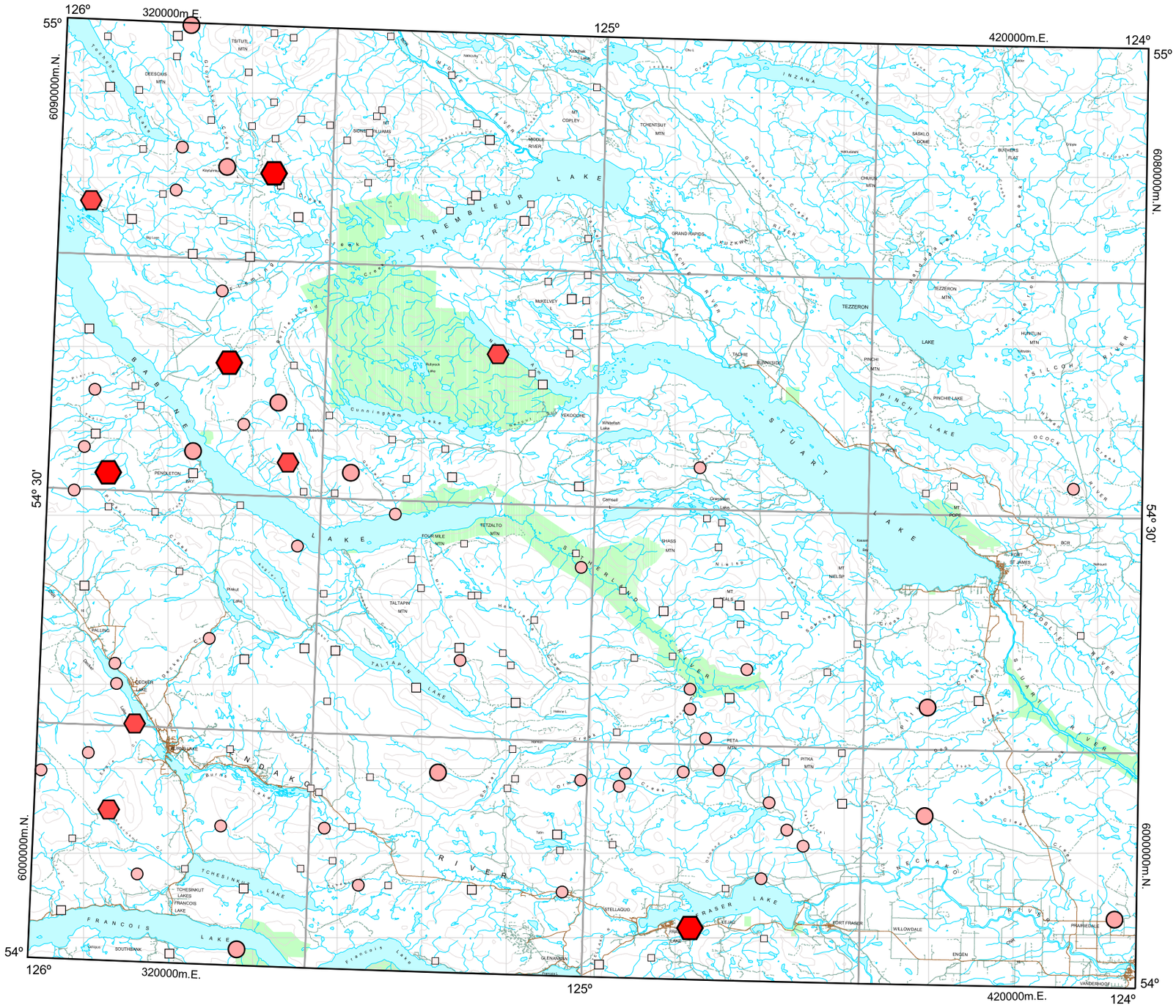
TCHENTBUT MTN
SASKLO BOWL
BUCHERS FLAT
CHUTUS MTN
HUNCLUN MTN
MT POPE
MT NELSIE
SHASS MTN
MT TALS
MT SIDNEY JAMES
TEXKOCHE
Whitefish Lake
Cunningham Lake
Cemetery
Grassmere Lake
Kwaxwil Lake
Pinkut Lake
Tabor Lake
Tatin
Helena L.
Kuzkwa
Tachie
Tezzeron
Kwaxwil
Kwaxwil Bay
Kwaxwil Creek
Kwaxwil River
Kwaxwil Lake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Whitefish Lake
Cunningham Lake
Cemetery
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Nakoluck
Kinzhan Lake
Kwaxwaxa
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Kwaxwaxa Bay
Tsilcoh River
Ocock River
Ocock Creek
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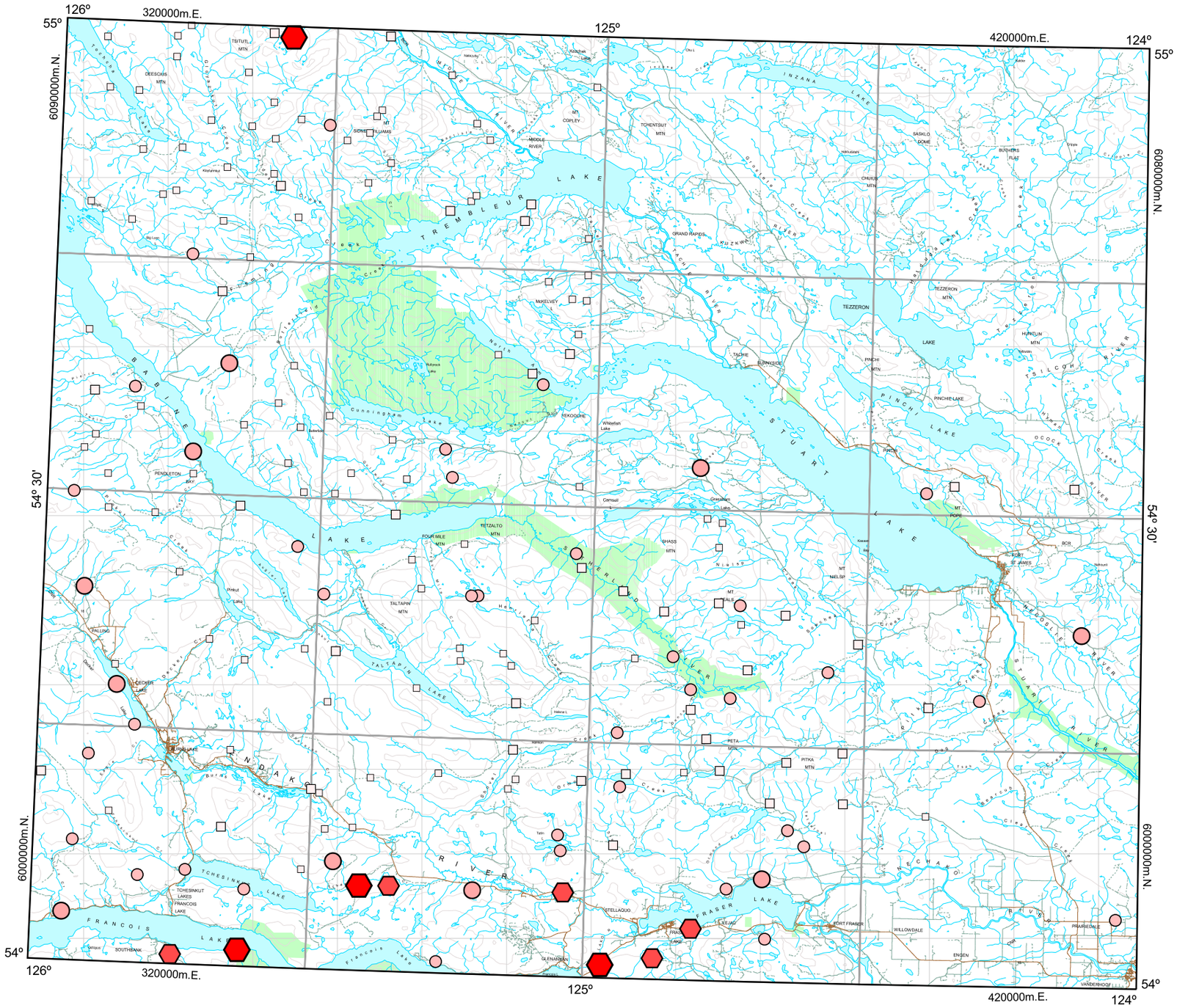
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Pinchi Lake
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Kuzkwk River
Grand Rapids
Middle River
Makelvey
Texkoche
Pendleton Bay
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Four Mile Mtn
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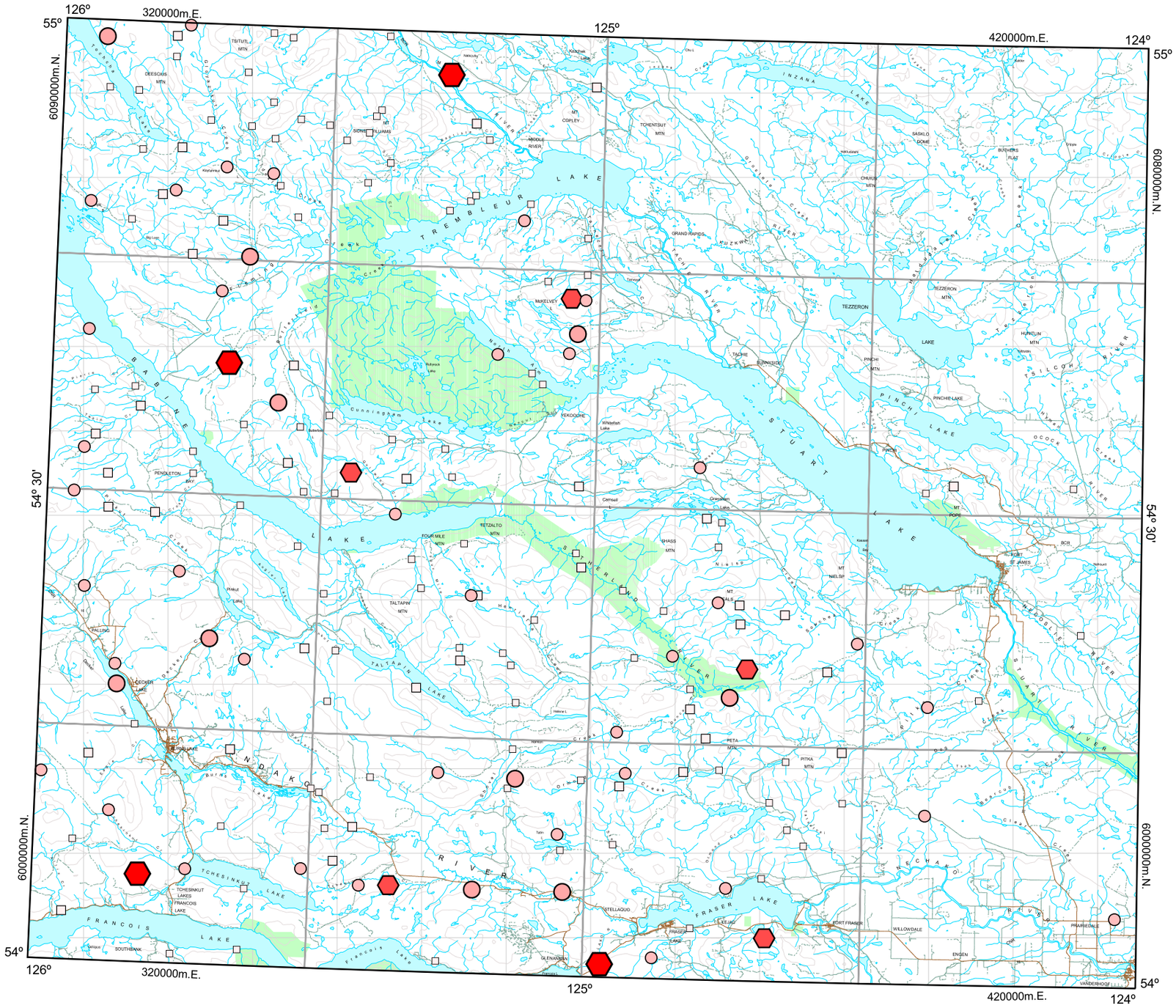

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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Manganese by ICPMS

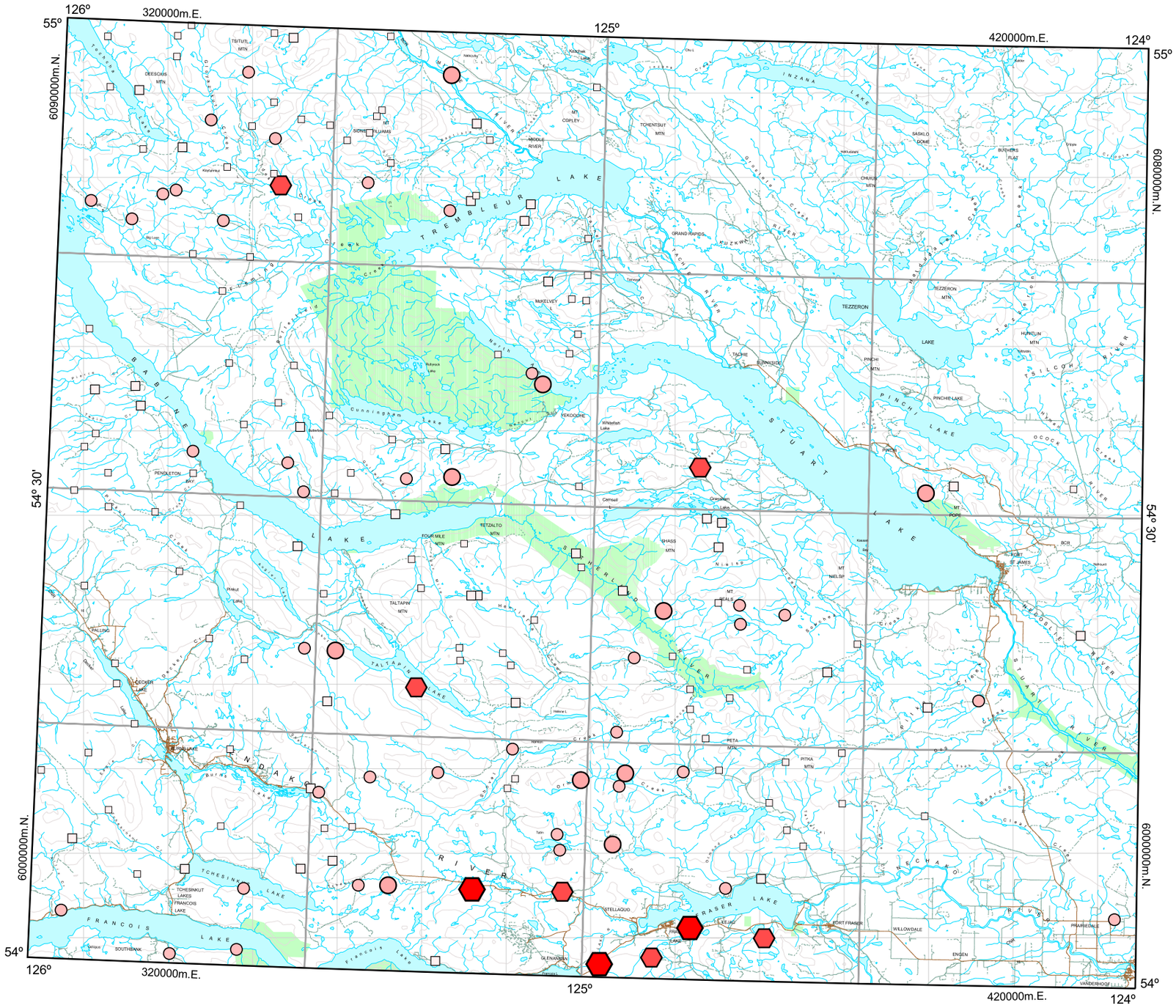
Stream Water

Concentration (ppb)	Frequency
224.9 to 589.4	n = 4 (2.2%)
147.3 to 224.8	n = 5 (2.7%)
54.4 to 147.2	n = 10 (5.4%)
13.6 to 54.3	n = 37 (19.9%)
3.5 to 13.5	n = 37 (19.9%)
<0.1 to 3.4	n = 93 (50.0%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada
Canada

British Columbia
Ministry of Energy and Mines
Energy and Minerals Division
Geological Survey Branch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FRANCOIS LAKE
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TALTAPIN LAKE
TCHESINKUT LAKE
BABINE LAKE
INZANA LAKE
SUSWELD RIVER
NAZKO RIVER
NECHAKO RIVER
STUART RIVER
FORT FRASER
FORT ST. JAMES
VANDERHOOF
PRAFIERDALE
WILLOWDALE
ENGEN
STELLAQUO
GLENAVON
SOUTHBANK
TEZZERON
PINCHI
TALTAPIN
FOUR MILE
TETZALTO
MAKELVEY
GRAND RAPIDS
TACHE
PENDLETON BAY
LECKER LAKE
TOHCHINKUT LAKES
FRANCOIS LAKE
PETA
PITKA
MT. NEILSIP
MT. POPE
MT. SEALS
SHASS
TEXKOCHE
Whitefish Lake
Cunningham Lake
Cariboo Lake
Pinkut Lake
Fraser Lake
Stellaquo Lake
Tezzeron Lake
Pinchi Lake
Tachie River
Nazko River
Nechako River
Stuart River
Nadina River
Francois Lake
Tchesinkut Lake
Cunningham Creek
Pendleton Bay
Lecker Lake
Burns Lake
Fraser Lake
Vanderhoof
Prafierdale
Willowdale
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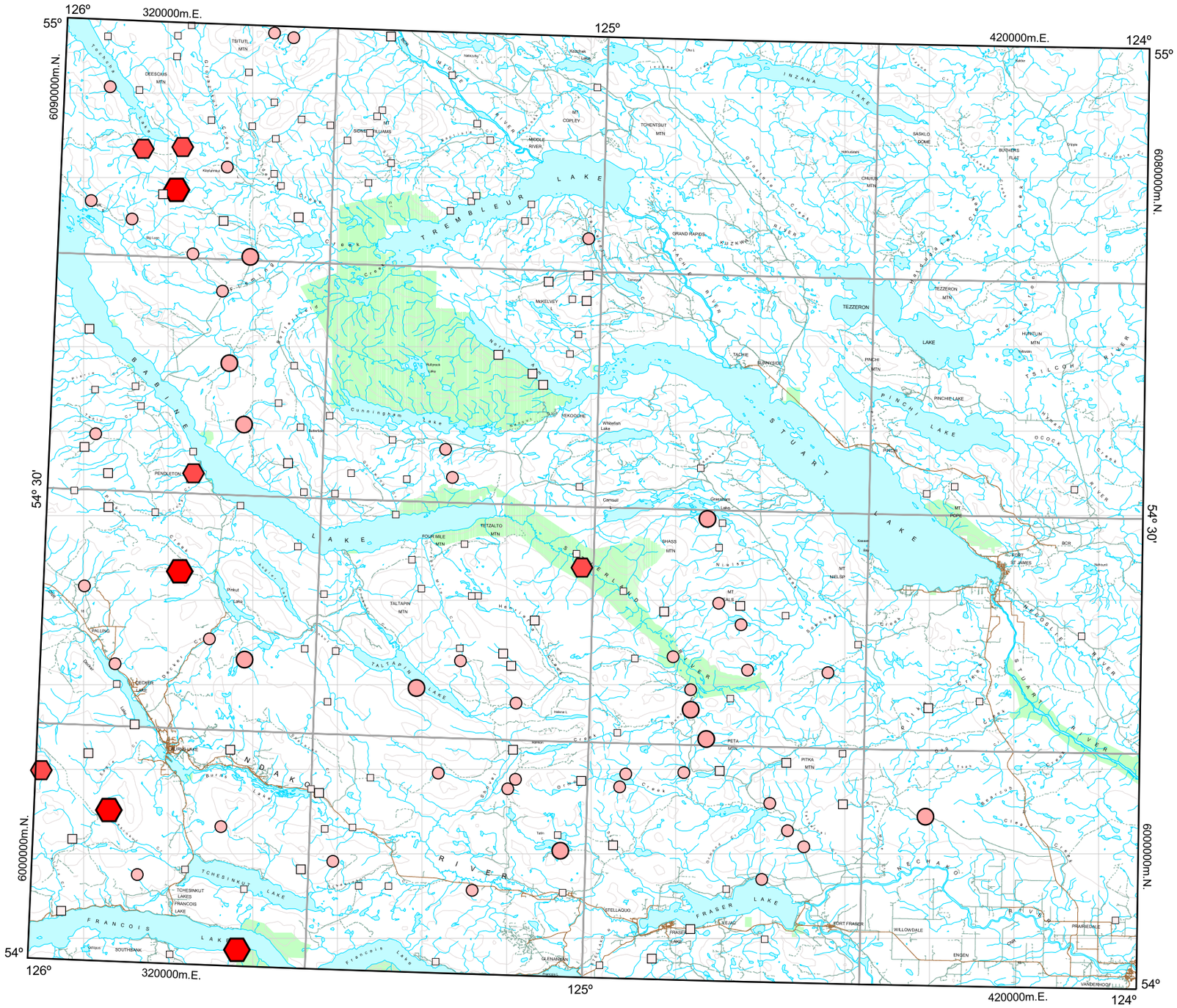
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SASKLO BOWL
BUCHERS FLAT
CHURUS MTN
HUNCLUN MTN
TSILCH RIVER
OCOCK RIVER
NEDOSLIE RIVER
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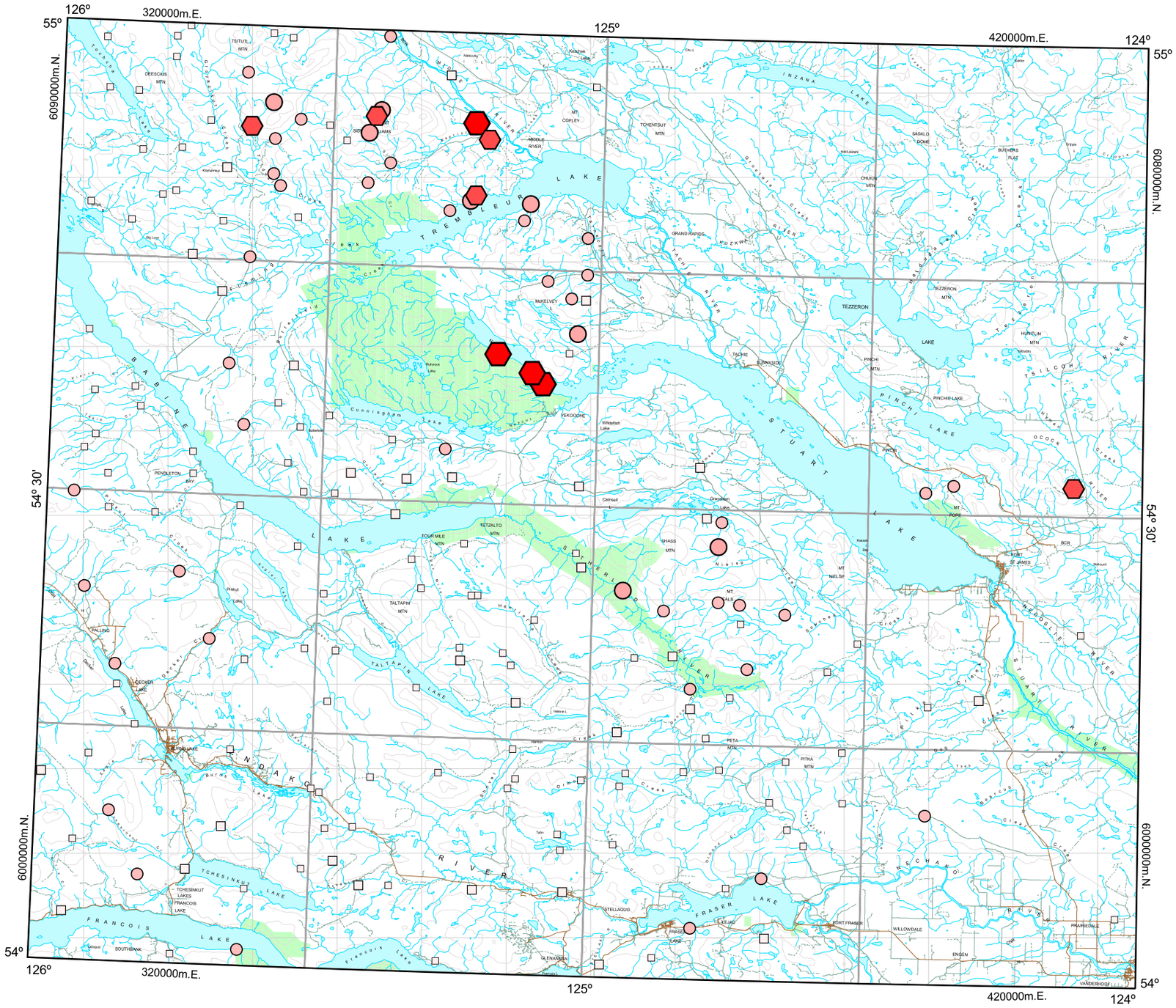

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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

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Kilometres

UTM Zone 10
NAD 83

Nickel by ICPMS

Stream Water

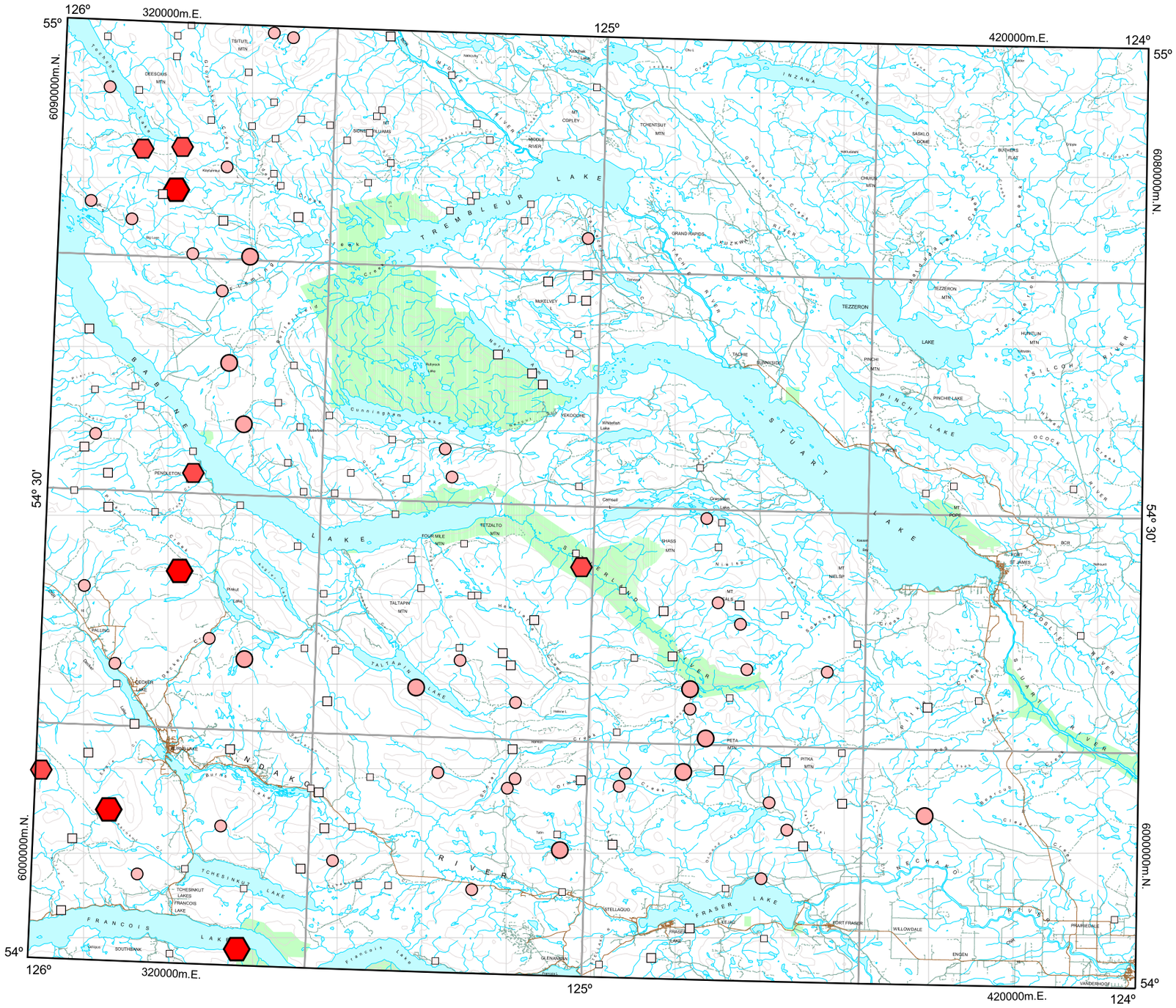
Concentration	(ppb)	Frequency
7.9 to 37.4		n = 4 (2.2%)
4.3 to 7.8		n = 5 (2.7%)
2.9 to 4.2		n = 9 (4.8%)
1.1 to 2.8		n = 37 (19.9%)
0.7 to 1.0		n = 37 (19.9%)
<0.1 to 0.6		n = 94 (50.5%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
Ministry of Energy and Mines
Energy and Minerals Division
Geological Survey Branch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STUART RIVER
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GRAND RAPIDS
KUZKWC
PETA MTN
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MT NELSIE
MT POPE
MT CALS
SHASS MTN
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HUNCLUN MTN
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BUCHERS FLAT
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INZANA LAKE
TOHENTBUT MTN
MT COPLEY
MIDDLE RIVER
SIDNEY HUMAS
DEESCUS MTN
TSITUTL MTN
Cunningham Lake
Whitefish Lake
Camsell
Grassham Lake
Kuzkwa Lake
Tachie Lake
Pinchi Lake
Tezzeron Lake
Stuart Lake
Fraser Lake
Francois Lake
Tatlapin Lake
Tchesinkut Lake
Burns Lake
Decker Lake
Pendleton Lake
Tetzalto Lake
Babine Lake
Trembleur Lake
Nazko River
Stuart River
Nechako River
Fraser River
Tsilcoh River
Ogden Creek
Pinchi Lake
Tachie River
Kuzkwa River
Grand Rapids
Tezzeron Lake
Pinchi Lake
Stellaquo Creek
Fraser Lake
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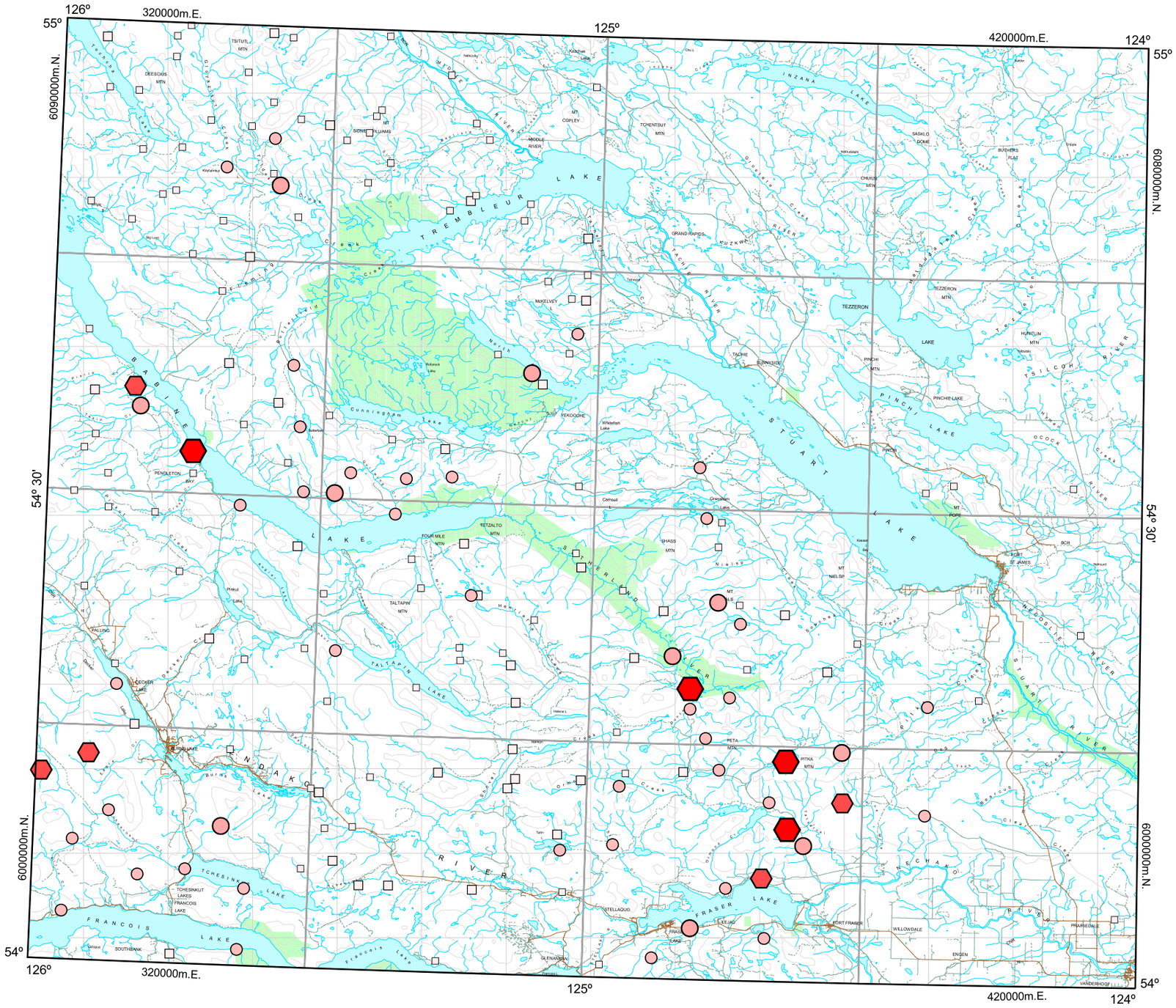
Pendleton Lake
Tetzalto Lake
Babine Lake
Trembleur Lake
Stuart



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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Rubidium by ICPMS

Stream Water

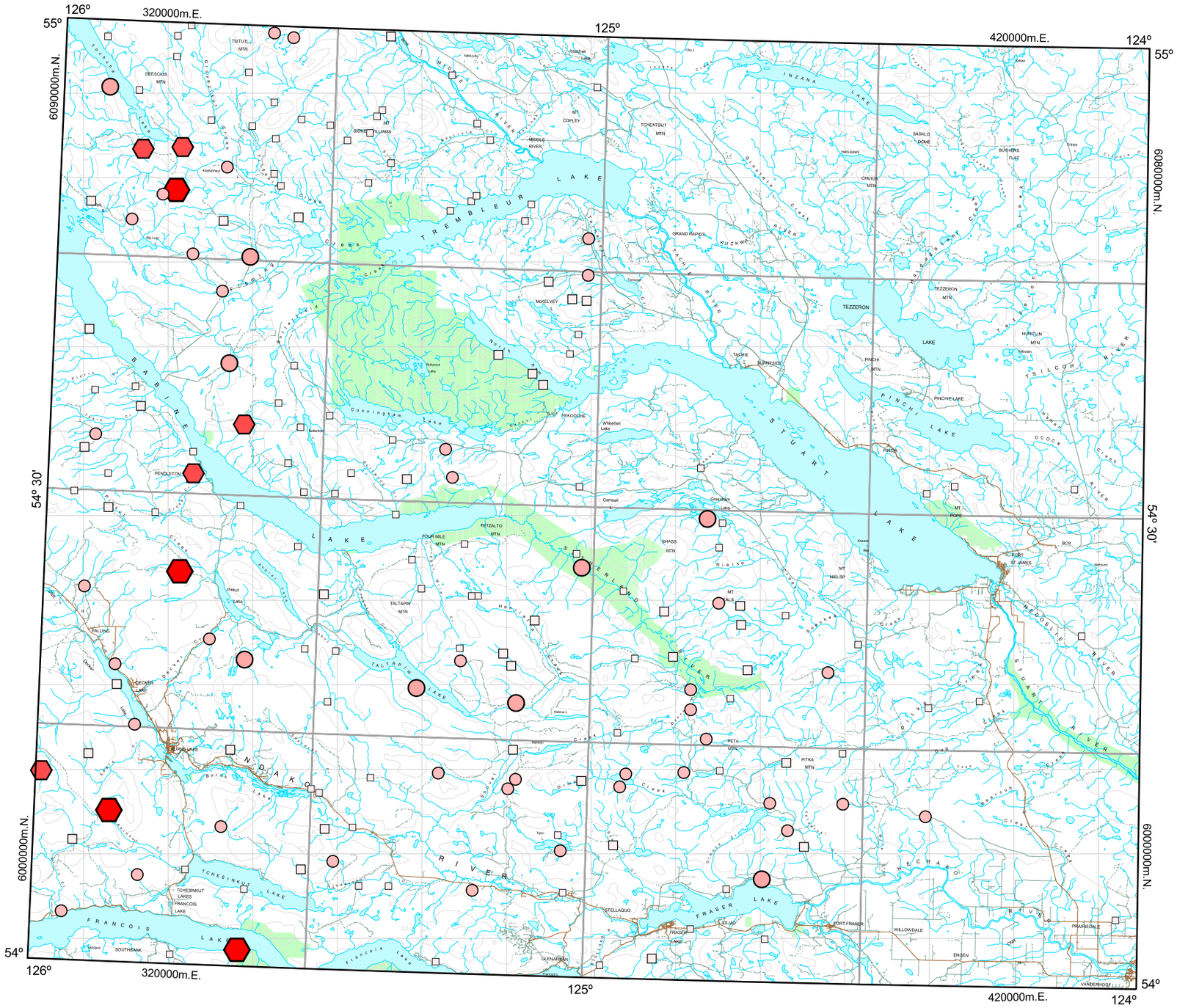
Concentration (ppb)	Frequency
2.93 to 7.36	n = 4 (2.2%)
2.47 to 2.92	n = 5 (2.7%)
1.44 to 2.46	n = 10 (5.4%)
0.83 to 1.43	n = 37 (19.9%)
0.63 to 0.82	n = 37 (19.9%)
0.03 to 0.62	n = 93 (50.0%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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



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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Samarium by ICPMS

Stream Water

Concentration (ppb)	Frequency
0.169 to 0.330	n = 4 (2.2%)
0.147 to 0.168	n = 5 (2.7%)
0.103 to 0.146	n = 10 (5.4%)
0.055 to 0.102	n = 37 (19.9%)
0.032 to 0.054	n = 37 (19.9%)
<0.005 to 0.031	n = 93 (50.0%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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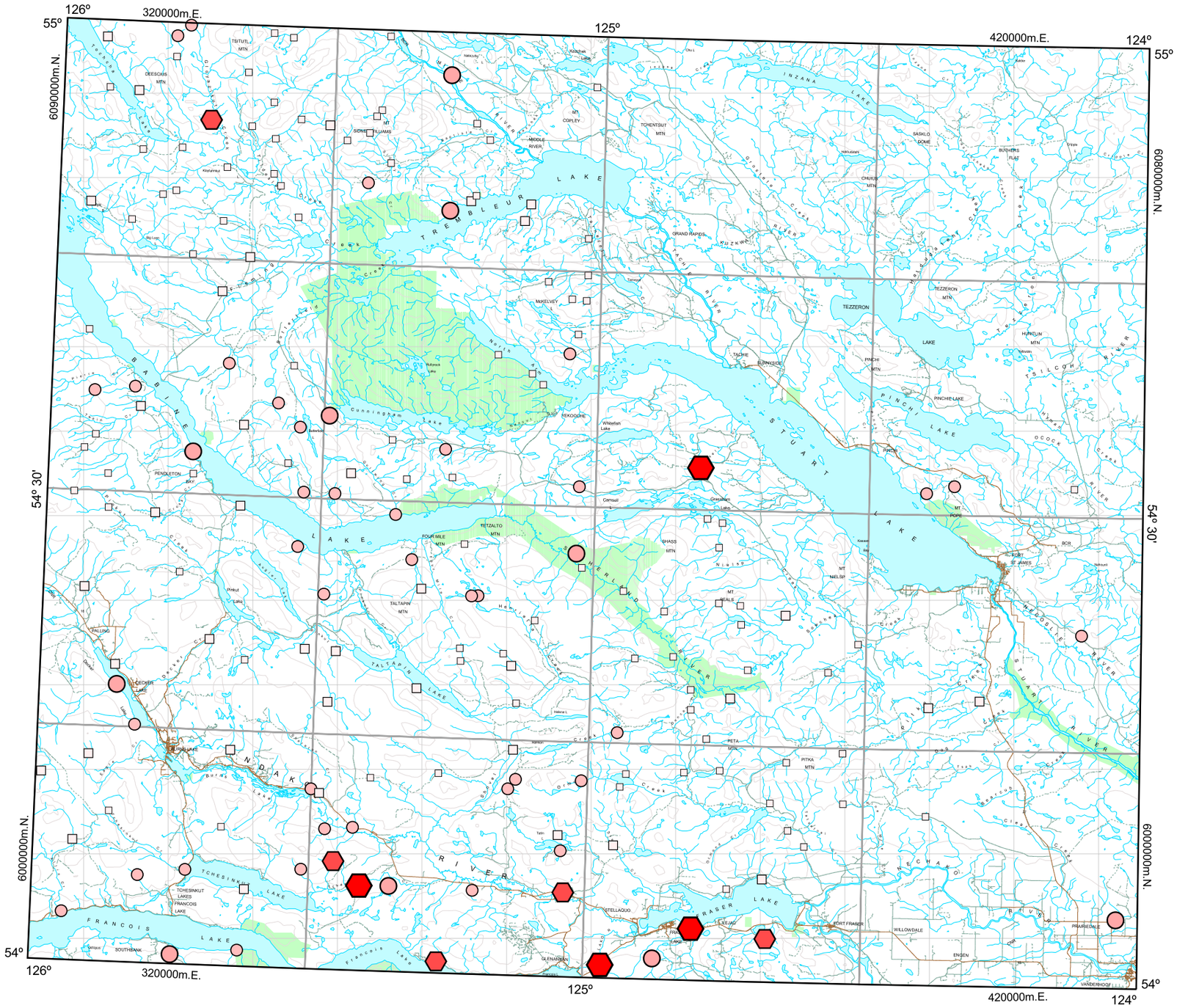

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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Strontium by ICPMS

Stream Water

Concentration (ppb)	Frequency
297.9 to 401.9	n = 4 (2.2%)
239.5 to 297.8	n = 5 (2.7%)
176.0 to 239.4	n = 10 (5.4%)
109.9 to 175.9	n = 37 (19.9%)
74.3 to 109.8	n = 37 (19.9%)
0.9 to 74.2	n = 93 (50.0%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
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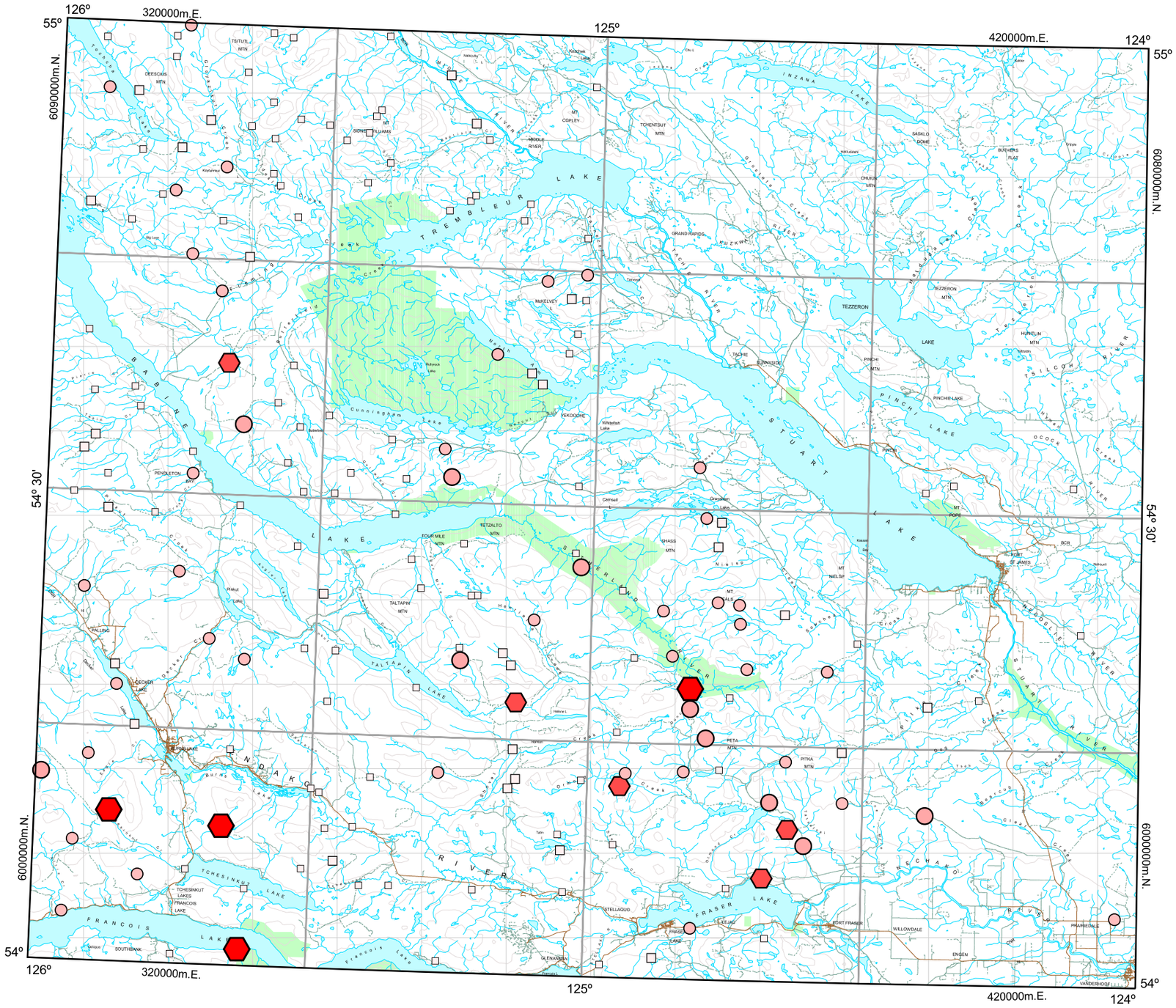
Geological Survey Branch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STUART LAKE
FRASER LAKE
FRANCOIS LAKE
TEZZERON LAKE
PINCHI LAKE
TALTAPIN LAKE
TCHESINKUT LAKE
BABINE LAKE
FRASER RIVER
STUART RIVER
NAZKO RIVER
NECHAKO RIVER
TEZZERON
PINCHI LAKE
FORT FRASER
FORT ST. JAMES
VANDERHOOF
PRAFIEDELE
WILLOWDALE
ENGEN
STELLAQUO
GLENAVON
SOUTHBANK
TCHESINKUT LAKES
FRANCOIS LAKE
LECKIE LAKE
PENDLETON BAY
MAKELVEY
TEXKOCHE
TACHE
FUNNISDIE
GRAND RAPIDS
MIDDLE RIVER
TSITUTL MTN
DEESCUS MTN
TOHENTBUT MTN
SASKLO BOWL
BUCHERS FLAT
CHUTUS MTN
HUNCLUN MTN
PINCHI MTN
PINCHI LAKE
TETZALTO MTN
FOUR MILE MTN
SHASS MTN
TALTAPIN MTN
PETA MTN
PITKA MTN
MT NELSIE
MT POPE
MT CALS
MT COPLEY
SIGNIFICANT MT
Cunningham Lake
Whitefish Lake
Camsell
Grassham Lake
Kuzkwa Lake
Tachie Lake
Tezzeron Lake
Pinchi Lake
Kwoiek Creek
Tsilcoh River
Nechako River
Stuart River
Nazko River
Fraser River
Francois Lake
Tchesinkut Lake
Taltapin Lake
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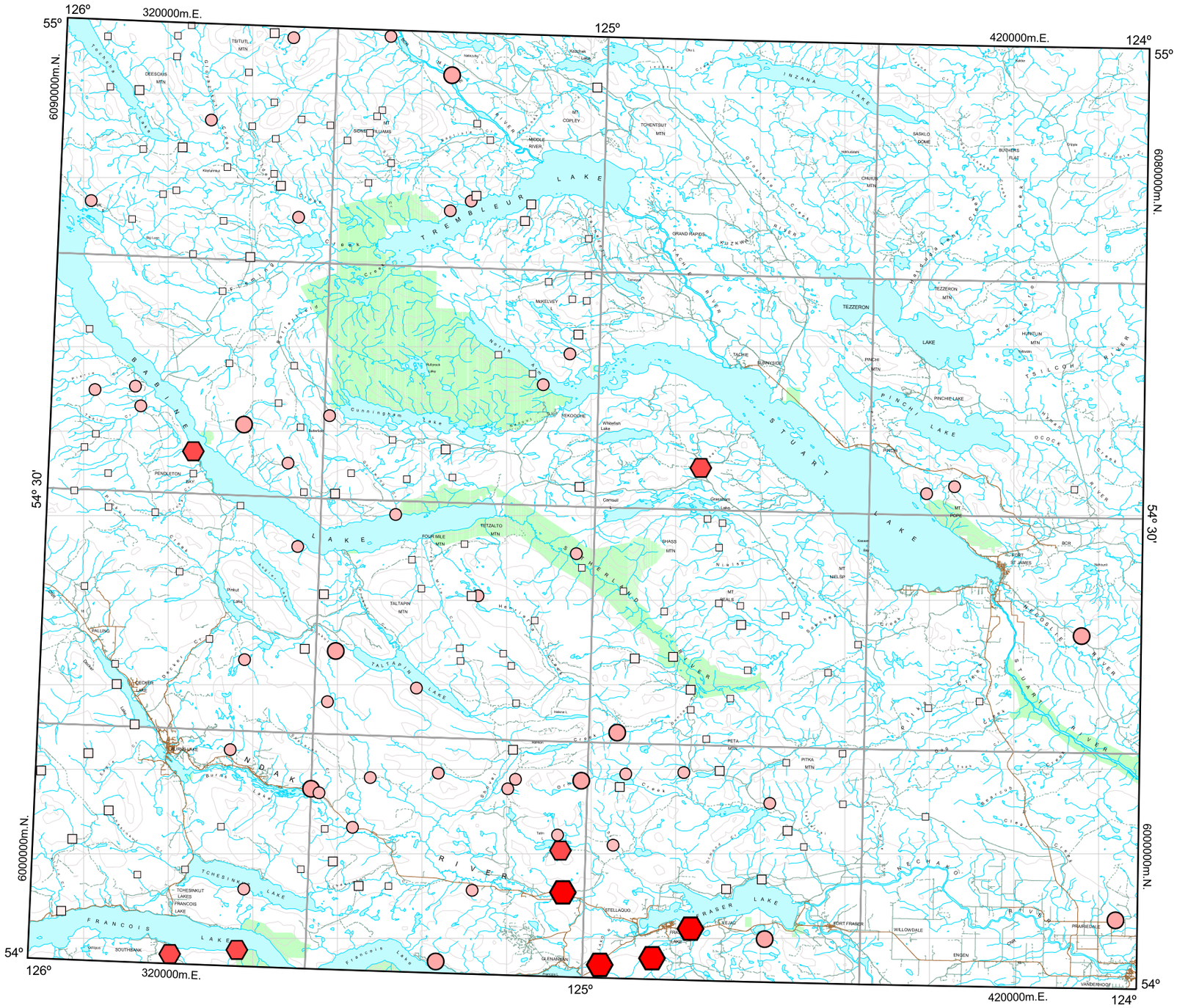
Kuzkwa River
Pinchi Lake
Tsilcoh River
Kwoiek Creek



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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Uranium by ICPMS

Stream Water

Concentration (ppb)	Frequency
1.93 to 7.00	n = 4 (2.2%)
1.07 to 1.92	n = 5 (2.7%)
0.45 to 1.06	n = 10 (5.4%)
0.16 to 0.44	n = 37 (19.9%)
0.09 to 0.15	n = 37 (19.9%)
<0.01 to 0.08	n = 93 (50.0%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

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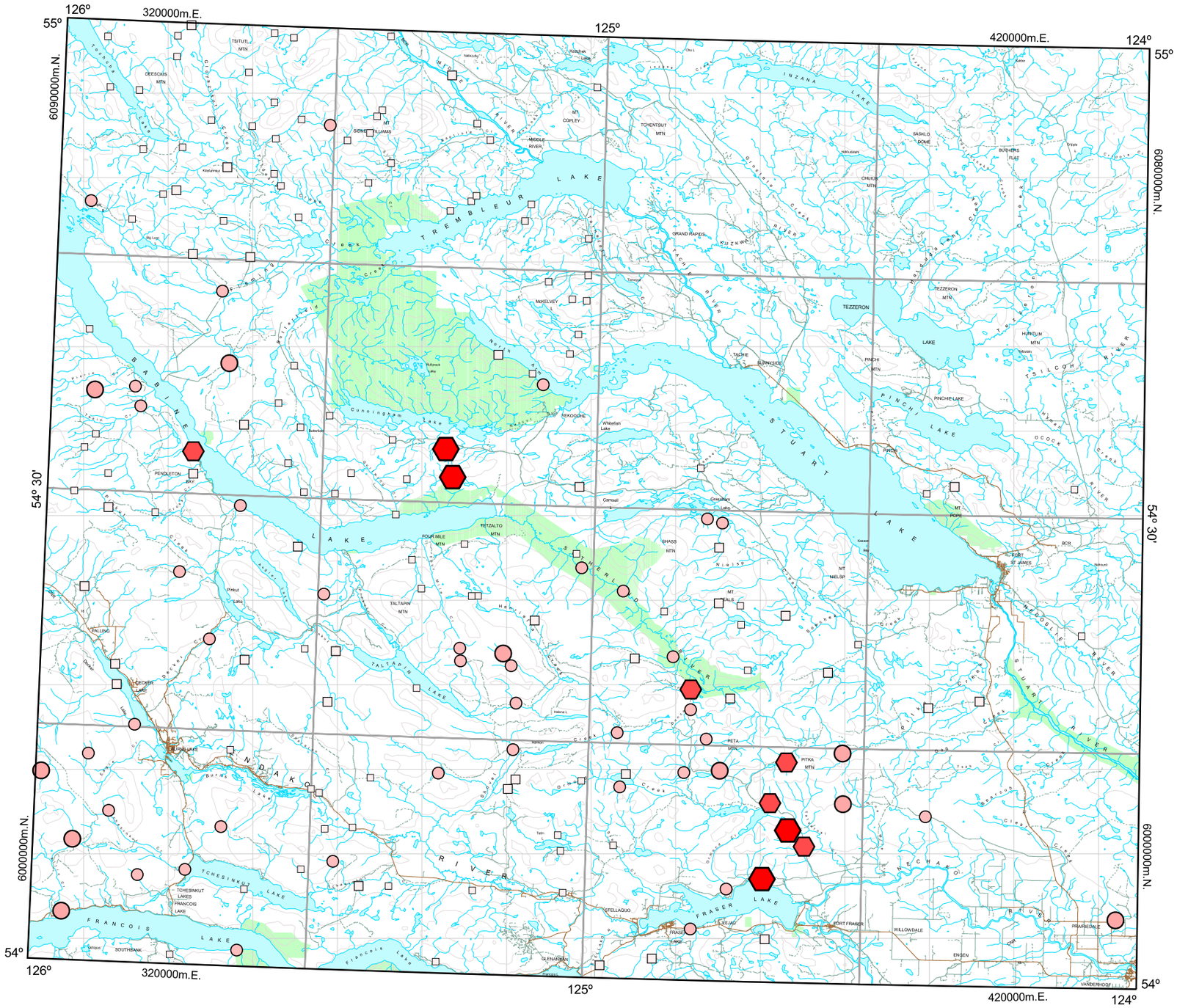

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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Vanadium by ICPMS

Stream Water

Concentration (ppb)	Frequency
3.3 to 7.1	n = 4 (2.2%)
2.4 to 3.2	n = 5 (2.7%)
1.6 to 2.3	n = 10 (5.4%)
0.7 to 1.5	n = 37 (19.9%)
0.5 to 0.6	n = 35 (18.8%)
<0.1 to 0.4	n = 95 (51.1%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
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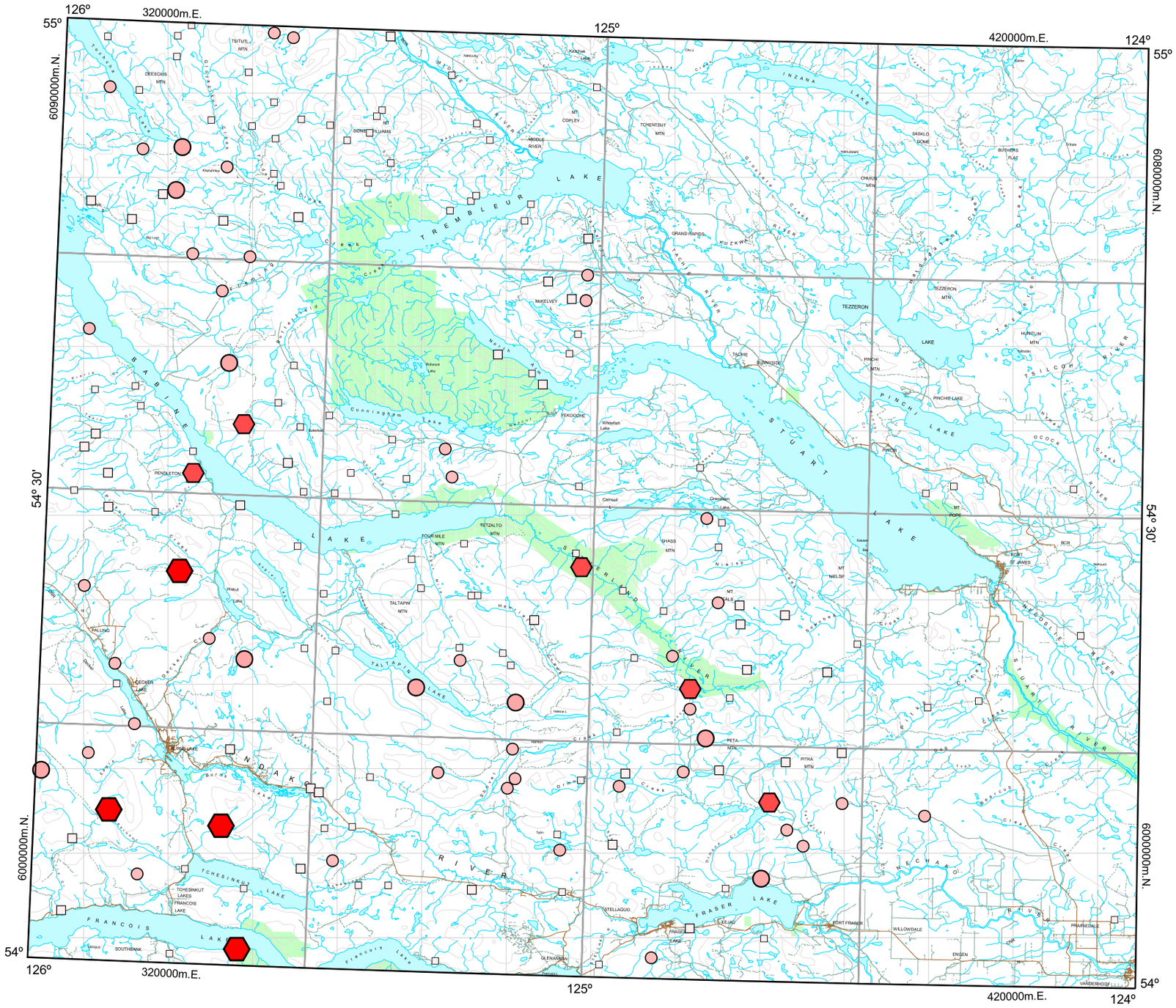
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STUART LAKE
FRASER LAKE
FRANCOIS LAKE
TEZZERON LAKE
PINCHI LAKE
TALTAPIN LAKE
TCHESINKUT LAKE
INZANA LAKE
BABINE LAKE
NINDAKO RIVER
STUART RIVER
NECHAKO RIVER
FRASER RIVER
PENDLETON
FORT FRASER
FORT ST. JAMES
VANDERHOOF
PRAFIERDALE
WILLOWDALE
ENGEN
STELLAQUO
GLENANNAN
SOUTHBANK
TEZZERON
PINCHI LAKE
TAKLA LANDING
LECKIE LAKE
TCHESINKUT LAKES
FRANCOIS LAKE
MIDDLE RIVER
GRAND RAPIDS
MAKELVEY
TEXKOCHE
TETZALTO
TALTAPIN
SASKLO BOWL
BUCHERS FLAT
CHURUS MTN
TOHENTBUT MTN
MT COPLEY
TSITUTL MTN
DEESCUS MTN
TEZZERON MTN
HUNCLUN MTN
PINCHI MTN
PINCHI LAKE
FOUR MILE MTN
SHASS MTN
MT NELSIE
MT POPE
PETA MTN
PITKA MTN
MT CALS
Cunningham Lake
Whitefish Lake
Carnsell
Grassham Lake
Pitkul Lake
Burns Lake
Tatin
Helena L.
Kuzkwa
Tachie
Euninside
Pinchi
Kwaleda
Ocock
Tsilcoh
Nadina
Nilas
Stellako
Nechako
Francois
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Fraser
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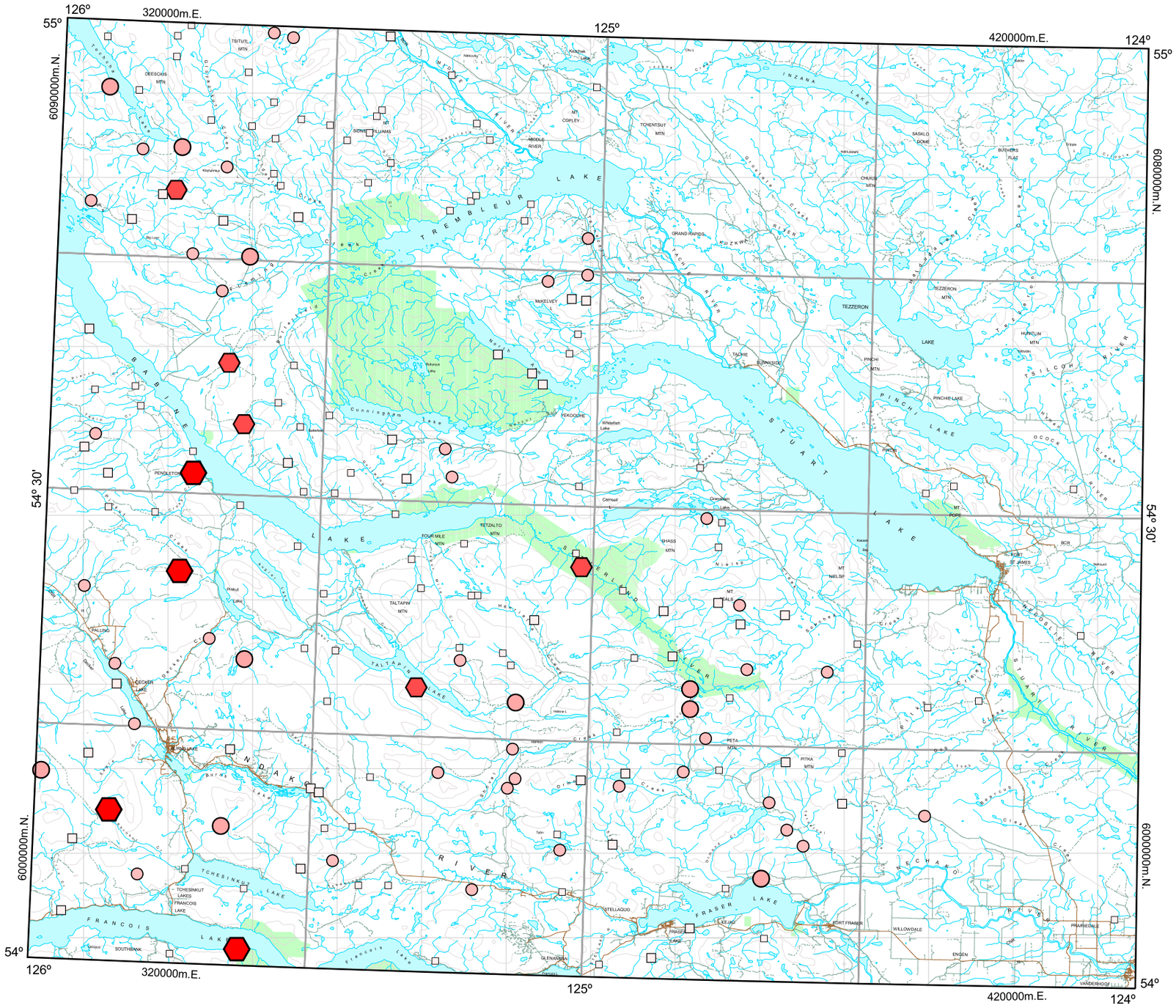
Nilas
Stell



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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Yttrium by ICPMS

Stream Water

Concentration (ppb)	Frequency
0.86 to 2.39	n = 4 (2.2%)
0.69 to 0.85	n = 5 (2.7%)
0.56 to 0.68	n = 10 (5.4%)
0.30 to 0.55	n = 37 (19.9%)
0.18 to 0.29	n = 37 (19.9%)
<0.01 to 0.17	n = 93 (50.0%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
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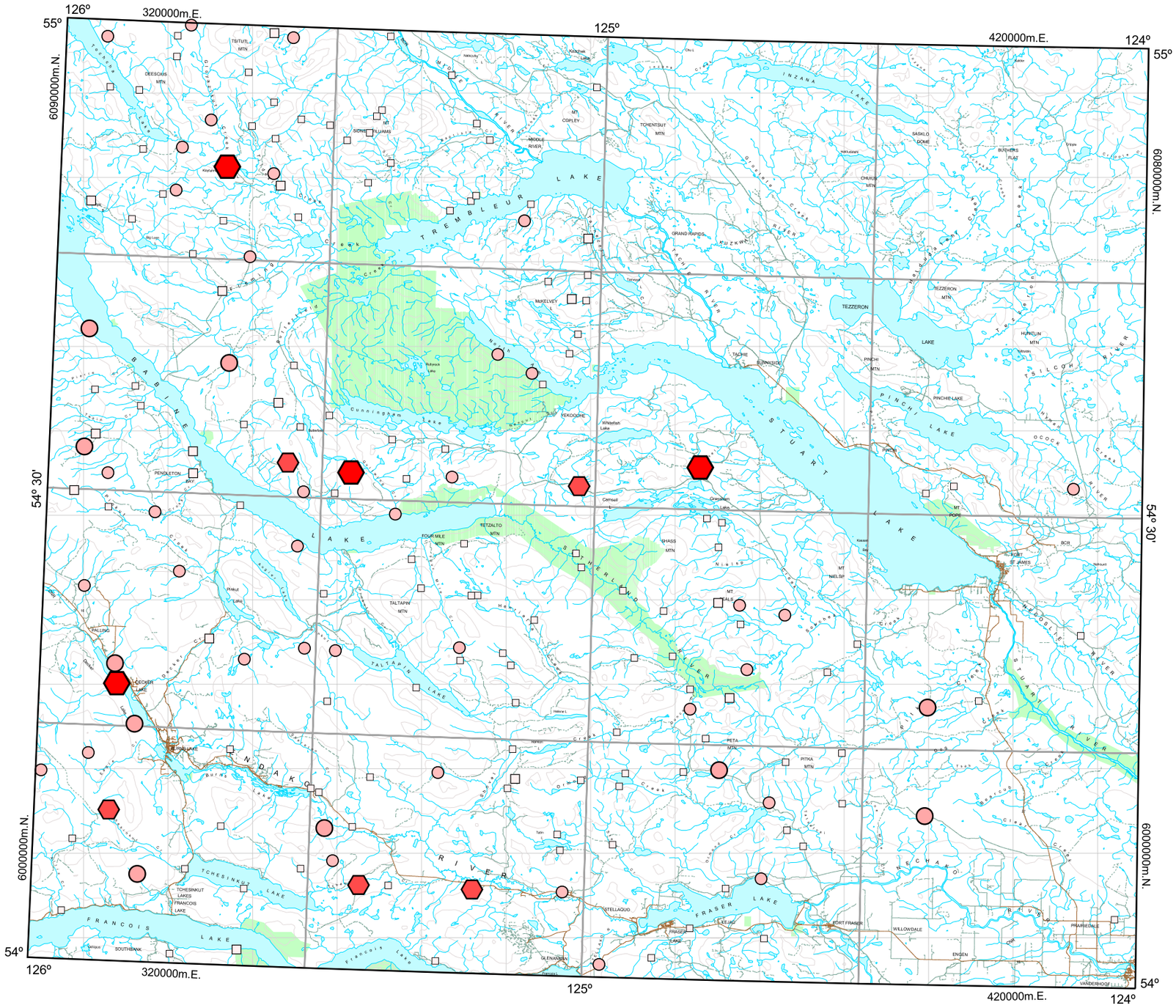
Geological Survey Branch



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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Zinc by ICPMS

Stream Water

Concentration	(ppb)	Frequency
5.0 to 14.8		n = 4 (2.2%)
3.0 to 4.9		n = 5 (2.7%)
1.9 to 2.9		n = 10 (5.4%)
0.7 to 1.8		n = 36 (19.4%)
0.5 to 0.6		n = 16 (8.6%)
<0.5		n = 115 (61.8%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

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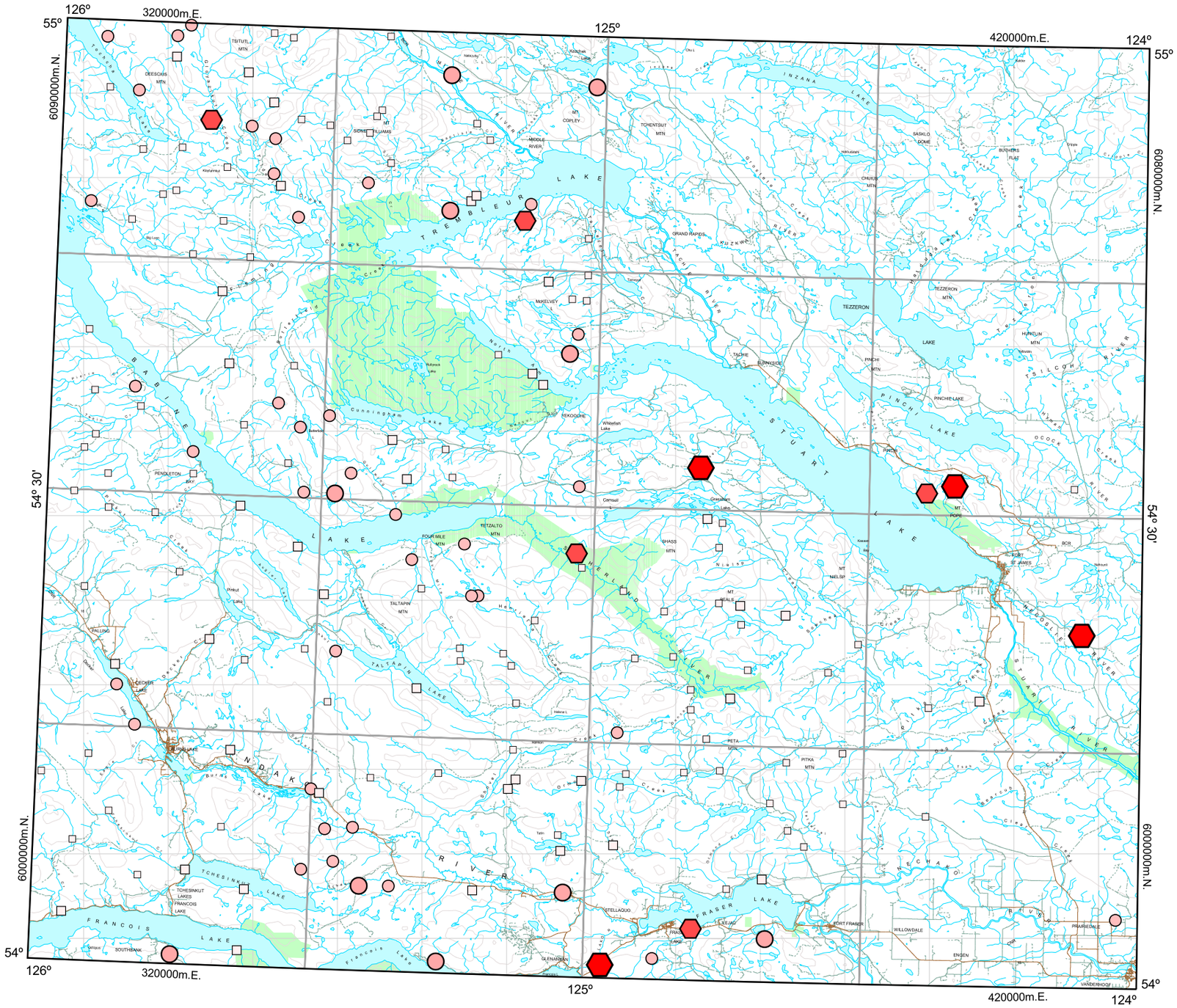
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STUART LAKE
TREMBLEUR LAKE
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FRANCOIS LAKE
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TEZZERON LAKE
TAKLA LAKE
TATALIAN LAKE
INZANA LAKE
BABINE LAKE
FORT FRASER
FORT ST. JAMES
VANDERHOOF
PRAFIERDALE
WILLOWDALE
ENGEN
STELLAQUO
GLENAVON
SOUTHBANK
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PINCHI LAKE
TAKLA LAKE
TATALIAN LAKE
TCHESINKUT LAKE
FRANCOIS LAKE
NADAKO LAKE
NECHAKO RIVER
STUART RIVER
NECHAKO RIVER
TSILCH RIVER
OGDEN RIVER
TACHE RIVER
NAZKO RIVER
BABINE RIVER
TREMBLEUR RIVER
INZANA RIVER
GRAND RAPIDS
MAKELVEY
TEXKOCHE
PENDLETON BAY
TETZALTO MTN
TALTAPIN MTN
TALTAPIN LAKE
FOUR MILE MTN
SHASS MTN
MT NEILSIP
MT SCALS
PETA MTN
PITKA MTN
MT POPE
PINCHI
PINCHI LAKE
TEZZERON MTN
HUNCLUN MTN
CHUTOS MTN
SASKLO BOWL
BUCHERS FLAT
TOHENTBUT MTN
MT COPLEY
MIDDLE RIVER
SIDNEY HUMAS
DEESCUS MTN
TSITUTL MTN
Cunningham Lake
Whitefish Lake
Grassham Lake
Camsell
Tachie
Fundyside
Kuzkwa
Kuzkwa River
Tachie River
Nazko River
Nazko Lake
Nechako River
Stellaquo Creek
Fraser Lake
Fraser River
Francois Lake
Tchesinkut Lake
Tchesinkut Lakes
Francois Lake
Burns Lake
Decker Lake
Pendleton Bay
Taltapin Lake
Taltapin Mtn
Four Mile Mtn
Tetzalto Mtn
Shass Mtn
Mt Neilsip
Mt Scals
Peta Mtn
Pitka Mtn
Mt Pope
Pinchi Lake
Tezzeron Mtn
Hunclun Mtn
Chutos Mtn
Saskio Bowl
Buchers Flat
Tohentbut Mtn
Mt Copley
Middle River
Sidney Humas
Deescus Mtn
Tsitutl Mtn
Kuzkwa Lake
Chu Lake
Kaster
Kwaxwdi Lake
Kwaxwdi Bay
Tsilcho Lake
Tsilcho River
Ogden Creek
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Pinchi Lake
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Nazko River
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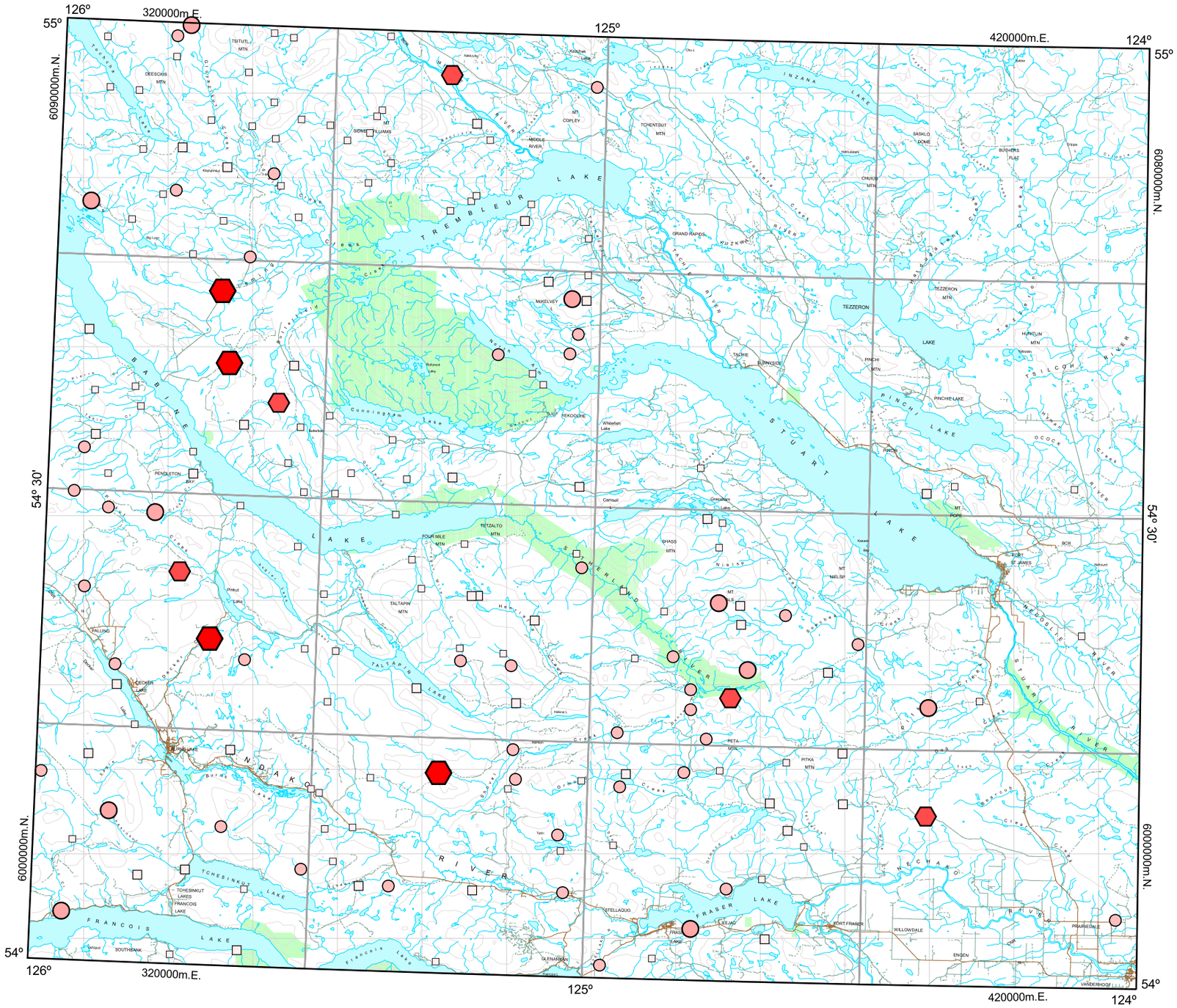

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FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Iron by ICPES

Stream Water

Concentration	(ppm)	Frequency
1.008 to 1.459	⬢	n = 4 (2.2%)
0.533 to 1.007	⬢	n = 5 (2.7%)
0.352 to 0.532	●	n = 10 (5.4%)
0.134 to 0.351	●	n = 37 (19.9%)
0.064 to 0.133	□	n = 37 (19.9%)
<0.005 to 0.063	□	n = 93 (50.0%)

186 Sample Sites

Natural Resources Canada / Ressources naturelle Canada

Canada

British Columbia
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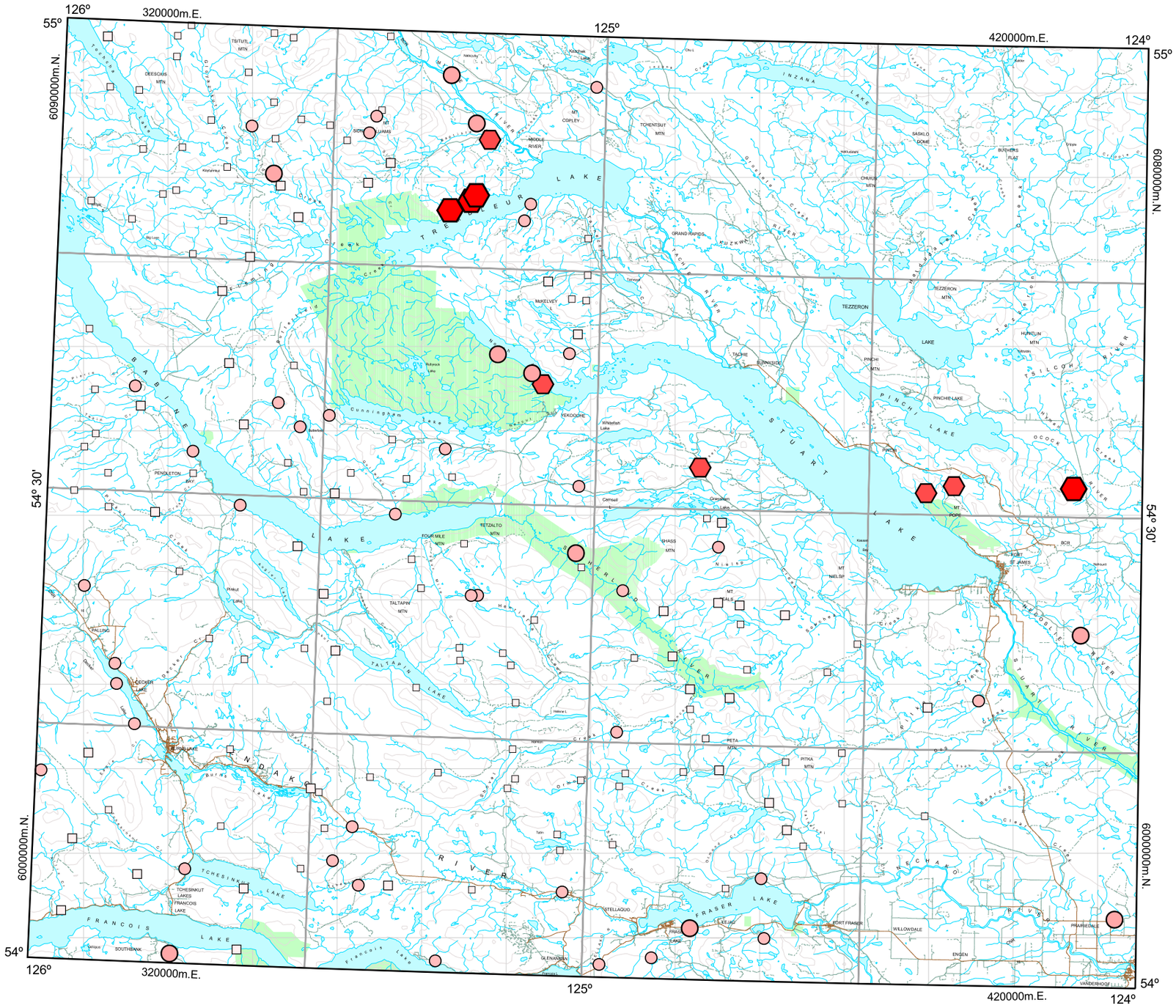

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BC RGS 57

FORT FRASER

BRITISH COLUMBIA

NTS 93K

0 10 20 30

Kilometres

UTM Zone 10
NAD 83

Magnesium by ICPES

Stream Water

Concentration (ppm)		Frequency
27.291 to 50.166	⬢	n = 4 (2.2%)
18.776 to 27.290	⬢	n = 5 (2.7%)
12.046 to 18.776	●	n = 10 (5.4%)
5.791 to 12.045	●	n = 37 (19.9%)
4.189 to 5.790	□	n = 37 (19.9%)
0.495 to 4.188	▫	n = 93 (50.0%)

186 Sample Sites

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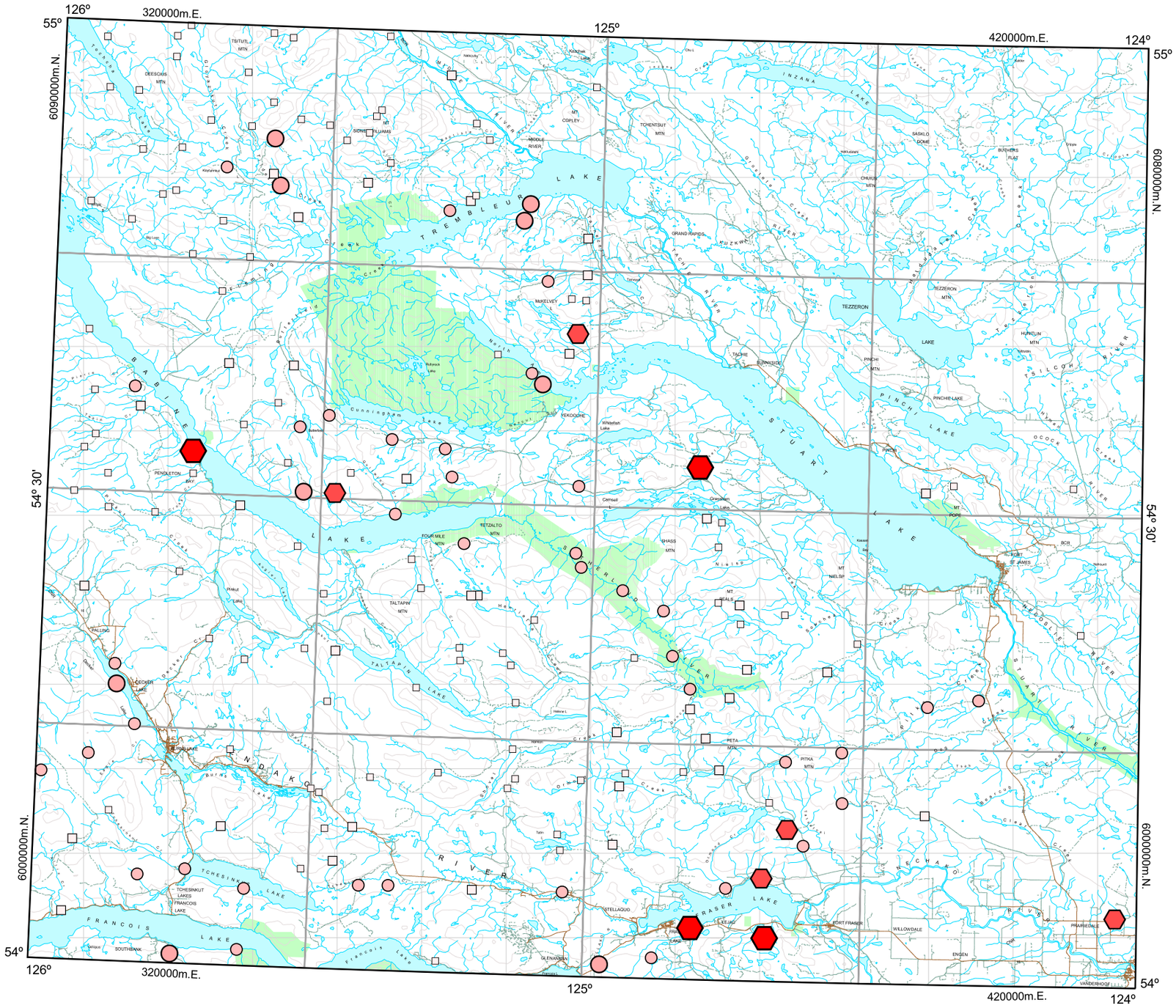
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STUART LAKE
FRASER LAKE
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PINCHI LAKE
TALTAPIN LAKE
TCHESINKUT LAKES
FRANCOIS LAKE
BABINE LAKE
NATALKUZ LAKE
INZANA LAKE
FRASER RIVER
STUART RIVER
NECHAKO RIVER
NAZKO RIVER
TACHE RIVER
TSILCH RIVER
OGDEN RIVER
NEDOLE RIVER
SOUTHBANK
PRAFIERDALE
WILLOWDALE
ENGEN
FORT FRASER
STELLAQUO
GLENANNAN
VANDERHOOF
PINCHI LAKE
TEZZERON
MAKELVEY
GRAND RAPIDS
PENDLETON BAY
FOUR MILE MTN
TETZALTO MTN
TALTAPIN MTN
SHASS MTN
PETA MTN
PITKA MTN
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TOHENBUT MTN
CHUTUS MTN
HUNCLUN MTN
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TACHE
FUNNIDIE
FORT ST. JAMES
MT. POPE
MT. NELSIE
MT. SEALS
MT. COPLEY
MT. SIMIS
MT. HUMAS
MIDDLE RIVER
SASKLO BOWL
BUCHERS FLAT
YEKOOCHE
Whitefish Lake
Cunningham Lake
Cameron Lake
Grassman Lake
Kuzkwa Lake
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Fraser Lake
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Tchesinkut Lake
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Trembleur Lake
Stuart Lake
Babine Lake
Natalkuz Lake
Inzana Lake
Nazko River
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Tsilch River
Ogden River
Nedole River
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Nechako River
Fraser River
Francois Lake
Southbank
Prafierdale
Willowdale
Engen
Fort Fraser
Stellaquo
Glenannan
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Pendleton Bay
Fort St. James
Pinchi Lake
Tezzeron
Makelvey
Grand Rapids
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Tetzalto Mtn
Taltapin Mtn
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Funnidie
Mt. Pope
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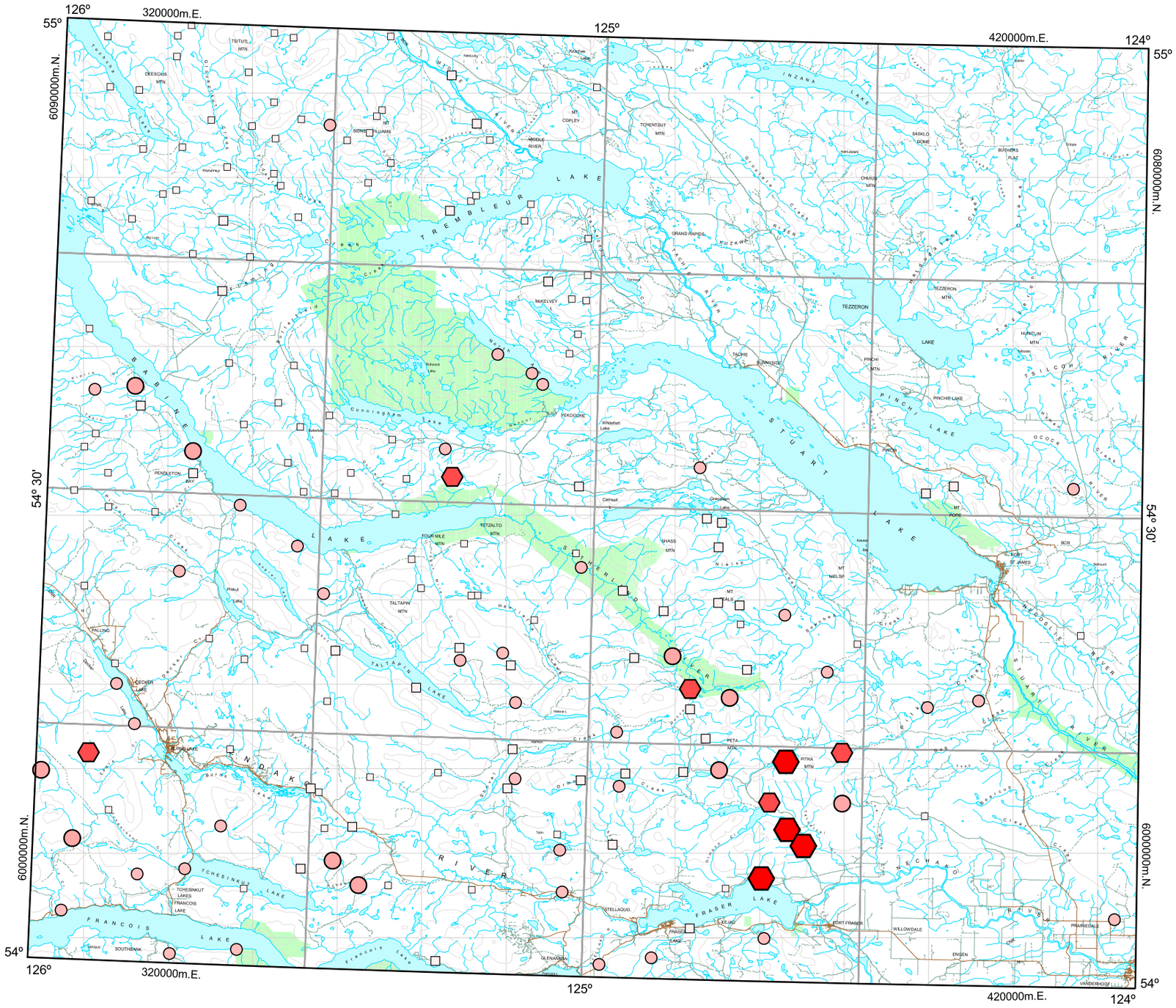
Middle River
Saskio Bowl
Buchers Flat
Yekoochie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MT COPLEY
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TSITUTL MTN
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Cemetery
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Kwaxwal Bay
Nakoutlin
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Chu Lake
Kaster
Klaskatenka
Big Logs
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Tachie
Tatuk
Tatin
Tatuk Lake
Tatin Lake
Helena L
Hanson
Burns Lake
Pendleton Bay
Fallung
Leckie Lake
Tchesinkut Lake
Francois Lake
Stellaquo
Fraser Lake
Fraser Lake
Fraser Lake
Glenavon
Southbank
Vanderhoof
Prafiedele
Willowdale
Engen
Fort Fraser
Fort St. James
BCR
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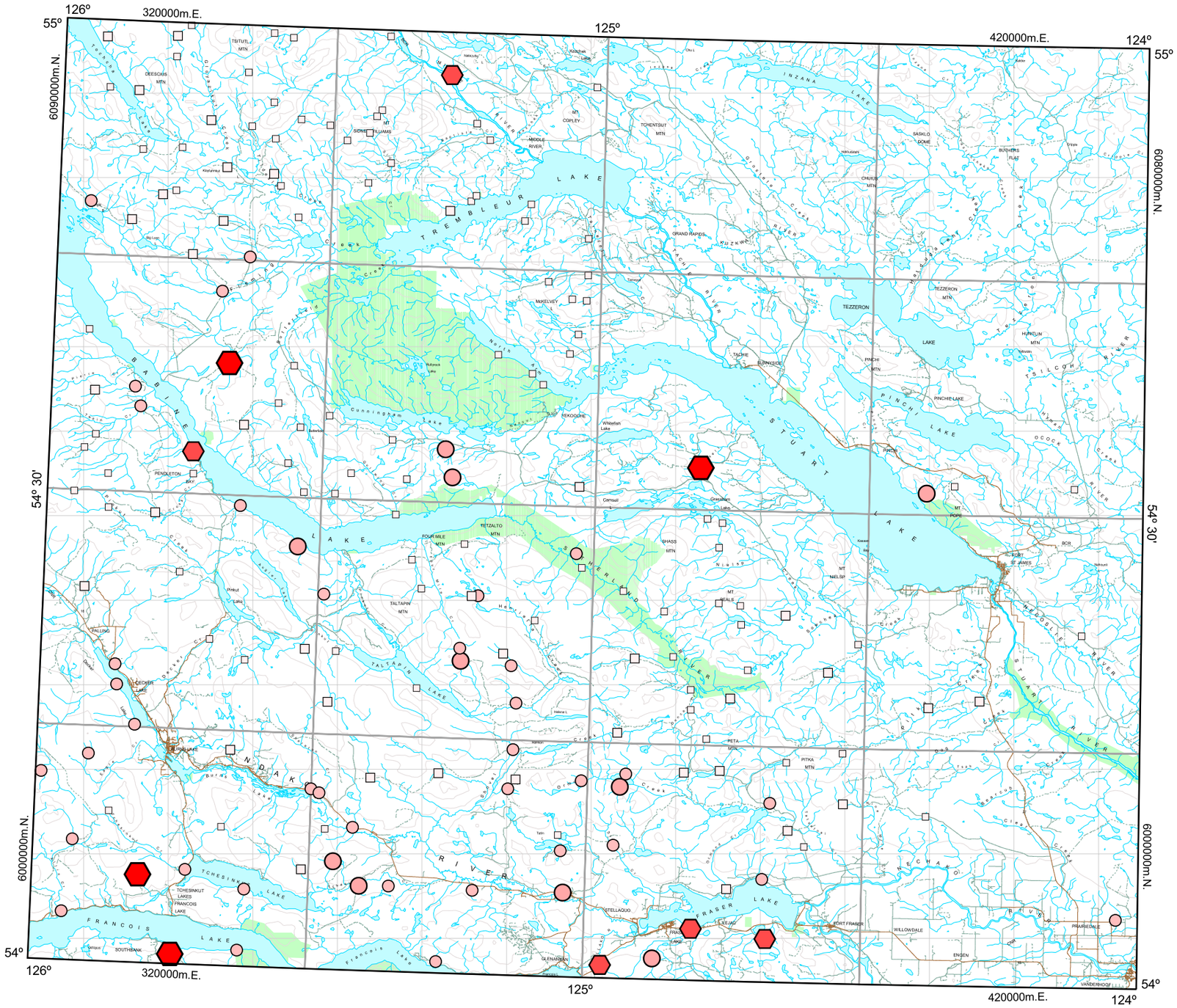
Kwaxwal Bay
Nedoslie River
Stuart River
Nechako River
Tsilch River
Ogden River
Pinchi Lake
Tezzeron Lake
Tachie River
Nuzkwc River
Grand Rapids
Cunningham Lake
Whitefish Lake


126°
320000m.E.
125°
420000m.E.
124°
55°
6090000m.N.
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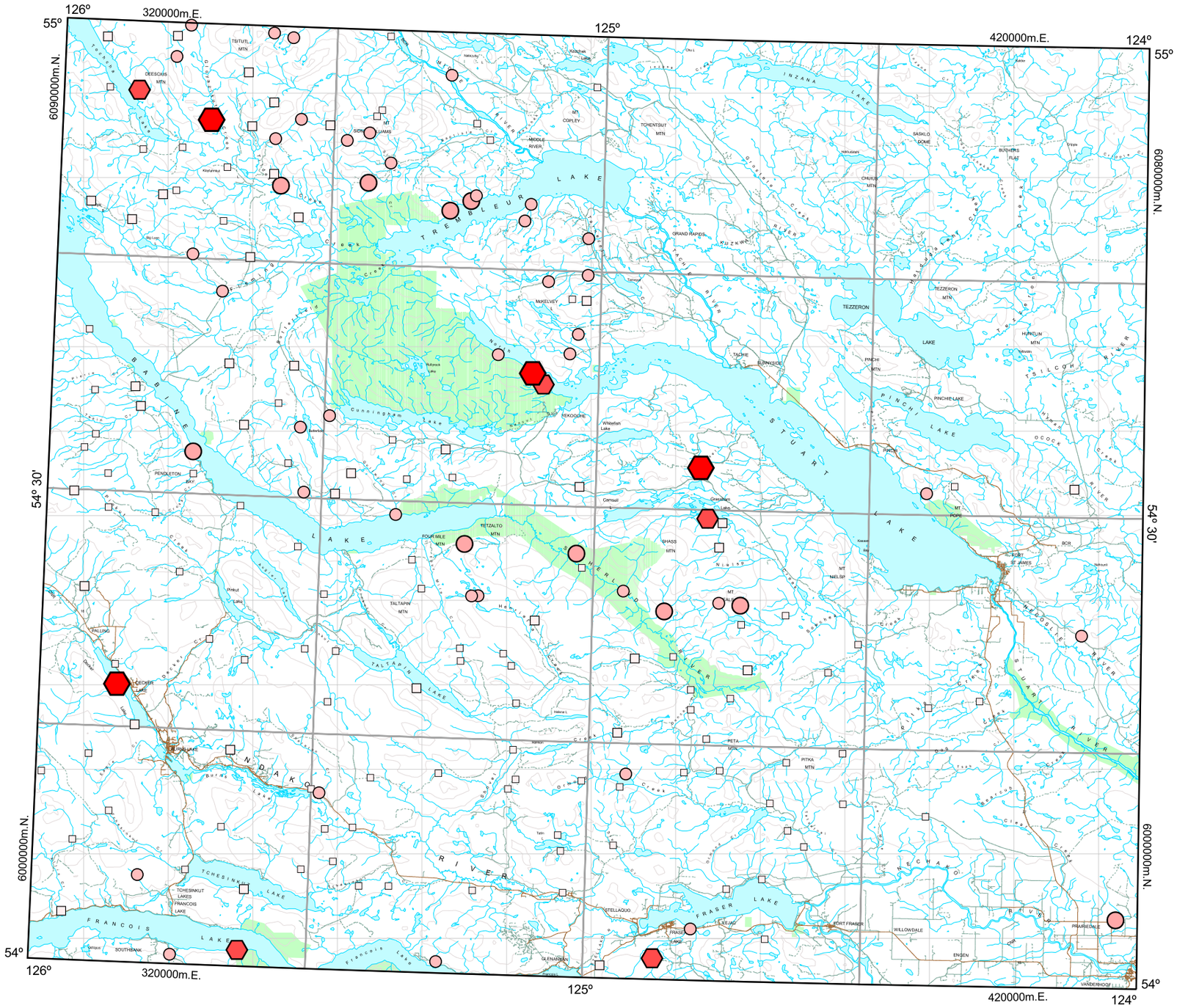
54° 30'
6000000m.N.
54°
TREMBLEUR LAKE
STUART LAKE
FRASER LAKE
FRANCOIS LAKE
TEZZERON LAKE
PINCHI LAKE
TALTAPIN LAKE
TCHESINKUT LAKE
BABINE LAKE
NADAKO LAKE
SUMMERLAND RIVER
NECHAKO RIVER
STUART RIVER
FORT FRASER
FORT ST. JAMES
VANDERHOOF
PRAFIERDALE
WILLOWDALE
ENGEN
STELLAQUO
GLENAVON
SOUTHBANK
TEZZERON
PINCHI LAKE
GRAND RAPIDS
MIDDLE RIVER
MIKELVEY
PENDLETON BAY
TETZALTO MTN
TALTAPIN MTN
FOUR MILE MTN
PETA MTN
PITKA MTN
TOHENTBUT MTN
TSITUTL MTN
DEESCUS MTN
CHUTUS MTN
HUNCLUN MTN
TEZZERON MTN
PINCHI MTN
MT. POPE
MT. NELSIE
SASKLO BOWL
BUCHERS FLAT
INZANA LAKE
TACHE
EUNNIDIS
PINCHI LAKE
TOHESINKUT LAKES
FRANCOIS LAKE
LECKIE LAKE
PALLING
Cunningham Lake
Whitefish Lake
Grassham Lake
Cemetery
Kuzkwa
Nakoutcy
Kinzhan Lake
Chu L.
Kazan
Tsacha Lake
Big Logs
Klaskatenka
Tsacha Creek
Cloud Creek
Cunningham Creek
Pinchi Creek
Tachie River
Nadakwa River
Nadakwa Bay
Ogock Creek
Tsilcoh River
Nilkitkwa River
Nilkitkwa Creek
Nilkitkwa Lake
Nilkitkwa Bay
Nilkitkwa Mtn
Nilkitkwa Pass
Nilkitkwa Cliffs
Nilkitkwa Glacier
Nilkitkwa Ridge
Nilkitkwa Valley
Nilkitkwa Falls
Nilkitkwa Canyon
Nilkitkwa Meadows
Nilkitkwa Trail
Nilkitkwa Camp
Nilkitkwa Cabin
Nilkitkwa Bridge
Nilkitkwa Road
Nilkitkwa Junction
Nilkitkwa Station
Nilkitkwa Post Office
Nilkitkwa Hotel
Nilkitkwa Store
Nilkitkwa Church
Nilkitkwa School
Nilkitkwa Cemetery
Nilkitkwa Park
Nilkitkwa Campground
Nilkitkwa Picnic Area
Nilkitkwa Boat Launch
Nilkitkwa Dock
Nilkitkwa Wharf
Nilkitkwa Pier
Nilkitkwa Beach
Nilkitkwa Shore
Nilkitkwa Island
Nilkitkwa Peninsula
Nilkitkwa Point
Nilkitkwa Bay
Nilkitkwa Inlet
Nilkitkwa Outlet
Nilkitkwa Creek
Nilkitkwa River
Nilkitkwa Lake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PINCHI LAKE
TAKLA LAKE
TAKLAPIN LAKE
TCHESINKUT LAKE
BABINE LAKE
INZANA LAKE
FRASER RIVER
NECHAKO RIVER
STUART RIVER
NEDOLE RIVER
TSILCH RIVER
OGDEN RIVER
FORT FRASER
FORT ST. JAMES
VANDERHOOF
PRAFIERDALE
WILLOWDALE
ENGEN
STELLAQUO
GLENAVON
SOUTHBANK
TEZZERON
PINCHI LAKE
GRAND RAPIDS
MIDDLE RIVER
MAKELVEY
TEXKOCHE
PENDLETON BAY
TETZALTO MTN
FOUR MILE MTN
TALTAPIN MTN
SHASS MTN
PETA MTN
PITKA MTN
LECKIE LAKE
TCHESINKUT LAKES
FRANCOIS LAKE
DEESCUS MTN
TSITUTL MTN
TOHENTBUT MTN
SASKLO BOWL
BUCHERS FLAT
CHUTUS MTN
HUNCLUN MTN
PINCHI MTN
TACHE
EUNNIDIS
MT POPE
MT NELSIE
MT CALLAGHAN
MT COPLEY
MT SIMAS
Cunningham Lake
Whitefish Lake
Grassham Lake
Cemetery
Kuzkwa
Tachie
Pinchi
Ogden
Nedole
Stuart
Nechako
Tsilch
Tezzeron
Takla
Tetzalto
Taltapin
Tchesinkut
Francois
Fraser
Nadako
Babine
Inzana
TremblEur
Middle
Cunningham
Pendleton
Leckie
Tsitutl
Deescus
Sinsimas
Tohentbut
Makelvey
Texkoche
Grand Rapids
Tachie
Eunnidis
Pinchi
Tezzeron
Hunclun
Pinchi Lake
Pinchi
Mt Pope
Mt Callaghan
Mt Nelsie
Shass
Four Mile
Tetzalto
Taltapin
Peta
Pitka
Fort St James
Fort Fraser
Vanderhoof
Prafierdale
Willowdale
Engen
Stellaquo
Glenavon
Southbank
Tchesinkut Lakes
Francois Lake
Leckie Lake
Pendleton Bay
Cunningham Lake
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