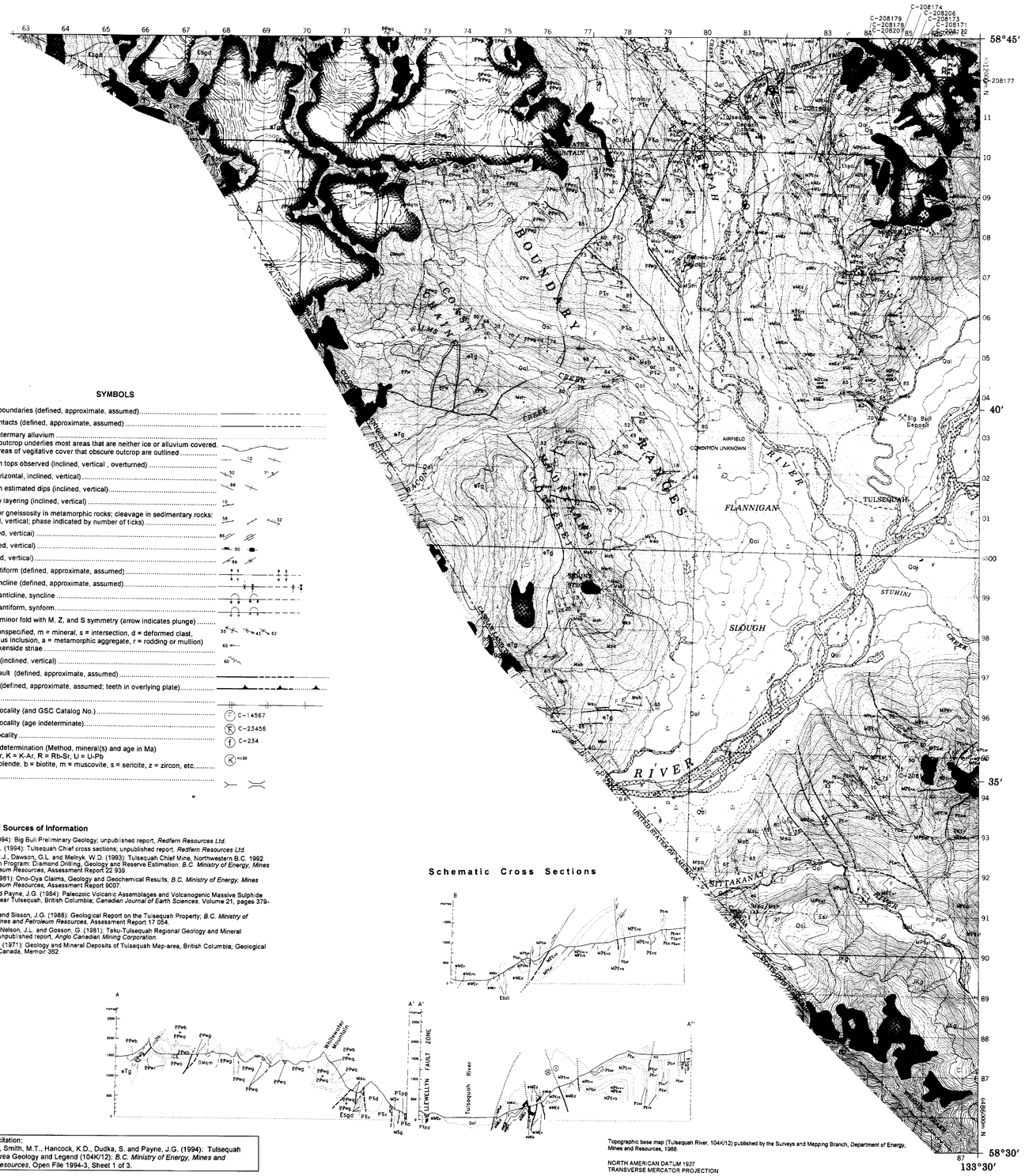
OF94-3
SHEET 1 OF 3



SYMBOLS

- Geological boundaries (defined, approximate, assumed)
- Intrusive contacts (defined, approximate, assumed)
- Limit of Quaternary alluvium
  NOTE: outcrop underlies most areas that are neither ice or alluvium covered. major areas of vegitative cover that obscure outcrop are outlined
- Bedding with tops observed (inclined, vertical , overturned)
- Bedding (horizontal, inclined, vertical)
- Bedding with estimated dips (inclined, vertical)
- Igneous flow layering (inclined, vertical)
- Schistosity or gneissosity in metamorphic rocks; cleavage in sedimentary rocks: (inclined, vertical; phase indicated by number of ticks)
- Joint (inclined, vertical)
- Dyke (inclined, vertical)
- Vein (inclined, vertical)
- Anticline, antiform (defined, approximate, assumed)
- Synform, syncline (defined, approximate, assumed)
- Overturned anticline, syncline
- Overturned antiform, synform
- Fold axis of minor fold with M, Z, and S symmetry (arrow indicates plunge)
- Lineations (unspecified, m = mineral, s = intersection, d = deformed clast, i = igneous inclusion, a = metamorphic aggregate, r = rodding or mullion) ss = slickenside striae
- Small shear (inclined, vertical)
- High angle fault (defined, approximate, assumed)
- Thrust fault (defined, approximate, assumed; teeth in overlying plate)
- Lineament
- Macrofossil locality (and GSC Catalog No.) — C-14567
- Macrofossil locality (age indeterminate) — R-23456
- Microfossil locality — f-234
- Isotopic age determination (Method, mineral(s) and age in Ma) A = Ar-Ar, K = K-Ar, R = Rb-Sr, U = U-Pb h = hornblende, b = biotite, m = muscovite, s = sericite, z = zircon, etc. — K=90
- Adit, trench

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Schematic Cross Sections

Recommended citation:
Mihalynuk, M.G., Smith, M.T., Hancock, K.D., Dudka, S. and Payne, J.G. (1994): Tulsequah River Map Area Geology and Legend (104K/12); *B.C. Ministry of Energy, Mines and Petroleum Resources*, Open File 1994-3, Sheet 1 of 3.

Topographic base map (Tulsequah River, 104K/12) published by the Surveys and Mapping Branch, Department of Energy, Mines and Resources, 1988.

NORTH AMERICAN DATUM 1927
TRANSVERSE MERCATOR PROJECTION

BC Ministry of Energy, Mines and Petroleum Resources

Geological Survey Branch

OPEN FILE 1994-3
(Sheet 1 of 3)

TULSEQUAH RIVER MAP AREA GEOLOGY AND LEGEND

NTS 104K/12

By M.G. Mihalynuk, M.T. Smith, K.D. Hancock, S. Dudka and J.G. Payne

SCALE 1:50 000

0 1 2 3 4 5 kilometres

LAYERED ROCKS

- Qg — *Glacial till, moraine and proximal glacial deposits.*
- Qal — *Unconsolidated outwash and alluvium.*

SLOKO GROUP; undivided as eTS; a bimodal volcanic package dominated by rhyolite flows and derived epiclastics (56 Ma)

- ESt — *Trachyte flows, maroon to light green, indurated, flow-banded, K-feldspar porphyritic, locally columnar jointed. With interflow units of tuff and/or lahar-like beds.*
- ESd — *Chaotic lapilli tuff to breccia and/or debris flow, fragmental components are dominantly felsic to intermediate and plagioclase-phyric. Massive, tan weathering appearance when viewed from a distance.*
- ESn — ***Nakonake formation:** interlayered brown to olive green, tabular plagioclase-porphyry flows and variegated lapilli tuff and breccia. Pronounced light and dark banded appearance when viewed from a distance. Individual basalt flows are shown by the diagonal hatching where mappable.*
- ESo — ***Opposer formation:** well-indurated, massive, black vitrophyric tuff and breccia, minor plagioclase +/- hornblende-phyric flows, probably andesitic. Massive, dark weathering appearance. Underlies many of the higher peaks in the region.*
- ESr — *Rhyolitic to dacitic flows, breccia, tuff and ignimbrite (including pyroclastic dikes). Basal unit of the Sloko Group in many areas.*
- ESc — *Basal conglomerate. Contains abundant clasts of foliated Paleozoic rocks. Minor rhyolite and minor basalt.*
- ESs — *Tuffite and epiclastics; red and lesser green-weathering, may occur at any stratigraphic horizon.*

LABERGE GROUP; undivided as lJL; many units within the Laberge Group sediments have limited facies-dependent distribution which results from their deposition as coalescing, subaqueous turbiditic fans dominated by greywacke.

- lJLs — *Siliciclastics; grey-brown to red-brown, turbidite, fine greywacke and siliceous shale. Beds are thin to thick, AE to nearly complete Bouma sequences, slight cleavage locally developed in fine-grained layers, otherwise no penetrative strain-related features.*
- lJLa a1 & a2 — *Argillite: a) undivided; a1) Rhythmically bedded; a2) irregularly and thinly-bedded.*
- lJLg, q — *Greywacke; quartz-rich greywacke. Typically medium to thick-bedded and light-weathering.*
- lJLcv — *Volcanogenic conglomerate and sandstone. Alternating beds of massive, green conglomerate, green to brown or maroon, thin to thick-bedded greywacke and mudstone. Locally includes black, thin-bedded calcareous to graphitic shale.*
- lJLc — *Conglomerate; clasts can include volcanic (pyroxene and hornblende feldspar porphyry, felsitic porphyry, aphanitic mafic to felsic); sedimentary (light and dark grey, rarely fossiliferous, carbonate with lesser wacke and argillite); and intrusive (syenite through leucogranite). Includes lithologies formerly mapped as "Takwahoni Formation". Intrusive clasts typically very well rounded and cobble to boulder sized. Probably diachronous and may include Upper Triassic proximal volcanic sandstone and tuff-rich sediment.*

STUHINI GROUP; undivided as uTs; apparent thickness less than 500m to >3 km

- uTSs — *Massive carbonate of probable Upper Norian Sinwa Fm.; strongly veined and commonly brecciated; weathers white, grey and orange.*
- uTSc — *Volcanogenic conglomerate and sandstone; medium or light green to mauve weathering, massive, rarely crudely bedded, epidotized.*
- uTSv — *Heterolithic lapilli tuff and derived volcaniclastics; variegated, locally quartz-bearing, generally intermediate to mafic.*
- uTSa,vc — *Turbiditic argillite; black, calcareous to graphitic, laminated to thin-bedded, and fossiliferous (u TSa). Volcanic lithorenites and wackes (u TSvc).*
- uTSpb — *Augite-phyric massive flows, hyaloclastite?, breccia and pillowed flows; chlorite amygdaloidal.*
- uTSpx — *Bright green, picritic, augite-phyric breccia and hyaloclastite.*
- uTSfp — *Feldspar porphyry flows and lesser breccia.*
- uTSbc — *Basal conglomerate; includes mainly clasts of Mount Stapler-type lithologies and c. 220 Ma intrusives.*

MOUNT EATON SUITE; Devonian to Permian arc succession of the Stikine Assemblage

Permian

- Pesc — *Medium-bedded light grey to greenish chert; commonly interbedded tan limestone or fusilinid packstone, Rarely black and rusty weathering; Permian fusilinids.*
- Pese — *Siliceous argillite to chert; with disseminated to semi-massive fine-grained pyrite; minor quartz-sericite schist. Rusty to grey weathering. May in part be exhalative in origin.*
- Pesm — *Limestone; massive, hackley-weathering, light grey to tan.*

Pennsylvanian to Permian

- Pest — *Tuffaceous shale to siltstone - AE turbidites, locally with cross-stratified ACE; brown to dark grey. Minor carbonate debris flow layers are common near Mount Metzgar.*
- Pevh — *Hyaloclastite, tuff and dense flows, feldspar ± pyroxene-phyric to aphyric.*
- Pevt — *Lapilli-ash tuff; finely laminated to medium bedded, maroon to green; locally massive tuff breccia; intervals of tan, siliceous tuff.*
- Pevb — *Pillow basalt and breccia; dark green, abundantly vesicular and sparsely K-feldspar megacrystic.*

Middle Pennsylvanian

- Pesl — *Brown bioclastic packstone; tuffaceous, well-bedded with interbeds of shale, greywacke, massive limestone.*
- Pesd — *Debris flow; fossiliferous carbonate> volcanic fragments and tuffaceous shale; matrix is green volcanic sandstone to (rarely) limestone. Clasts up to several metres in diameter.*
- Pevd — *Subophitic dikes and sills and compakxes; dark green, medium to fine crystalline with chilled margins, otherwise massive, diortic to gabbroic.*

Mississippian to Pennsylvanian

- MPest — *Tuffaceous mudstone/greywacke. Distinctive white to pea green-weathering unit is thin to thick-bedded, with locally common bioclastic limestone/debris flows and purple weathering massive limestone intervals; characteristic orange and white striped appearance where hornfelsed.*
- MPeva — *Agglomerate, breccia and minor flows; pyroxene > feldspar porphyritic, mainly monomict, commonly strongly epidotized, light to medium green weathering, rare clasts weather maroon. Overlies unit eMDt at several localities, but may also occur at other stratigraphic levels.*
- MPevc — *Polymictic volcanic conglomerate and sandstone; heterolithic volcanic clasts and minor limestone clasts; massive to crudely bedded, rarely well-bedded intervals; clasts subangular to subrounded; often highly epidotized, medium green to maroon.*
- MPesm — *Massive marble/limestone; hackley, light-grey weathering; recrystallized; may be sparsely fossiliferous at margins.*
- MPevb — *Massive basalt to andesite tuff, lesser flows and sills. Dark green and lesser maroon, massive; generally tabular feldspar porphyritic and may contain hornblende ± pyroxene phenocrysts.*

Early Mississippian

- eMlm — *Recrystallized limestone; light grey-weathering, foliated.*
- eMlms — *Massive sulphide mineralization. Most commonly pyrite+/-gypsum or sphalerite> galena> chalcopyrite> tetrahedrite. Adjacent rocks are sericite-altered.*
- eMdi — *Diabase; massive, dark green, fine to medium-grained, as semi-discordant to concordant sills.*
- eMtr — *Rhyolite breccia; minor flows. Light grey to light green; may include bleached quartz amygdaloidal basalt in part.*
- eMtd — *Dacite to andesite tuff, breccia and flows; light grey to mauve. Tuff may be foliated and sericitic, flows may be sphenuitic. Fine-grained distal facies are typically chaotically banded. May occur at more than one stratigraphic horizon.*
- eMsb — *Basalt breccia; quartz and chlorite-vesicular, pyroxene and lesser feldspar-phyric; well indurated, traces of chalcopyrite in the matrix; black to dark green weathering.*
- eMev — *Undifferentiated andesite to basalt flows, breccia, and minor lapilli and ash tuff; dark green, well-bedded to massive. As mapped, does not represent a single stratigraphic interval.*

MOUNT STRONG SUITE; Mississippian?, probably in part correlative with the lower Mount Eaton suite, but commonly strongly foliated.

- Msu — *Pyroxenite ± biotite (xghilogopite?); varitextured; dark green to black; locally strongly serpentinized. Some bodies may be intrusive and/or remobilized and may post-date stratified rocks by a substantial time interval.*
- Msg — *Gabbro; massive to brecciated, dark grey to green weathering.*
- Msh — *Cherty argillite, siltstone, locally feldspar-rich wacke; indistinct dm-scale graded bedding, brown to black. Upgraded to grey to brown phyllite or quartz-feldspar-rich semaschist south of Mount Strong.*
- Msb — *Basaltic flow breccia, hyaloclastite, lapilli-ash tuff and flows; indistinct clast outlines; dark green to black.*
- Msm — *Marble: medium to coarse grained, white to medium grey, massive to phyllitic with conspicuous dark grey cherty and tuffaceous interlayers.*
- Msa — *Meta-ash tuff. Andesitic(?), light and dark green laminated.*
- Msc — *Finely laminated black to tan chert and cherty argillite; gradational into Msh*

MOUNT STAPLER SUITE: Paleozoic to Mesozoic foliated and weakly metamorphosed strata; displays relict primary textures; dominantly volcanic arc protoliths; probably includes Stikine Assemblage and possibly Stuhini Group lithologies; locally gradational into both Boundary Ranges and Whitewater Assemblages.

- P'lqm — *Quartz monzonite to diorite or leucogabbro; weakly foliated to mylonitic. Restricted to area along the Llewellyn fault zone, where it may be altered or brecciated, contact relations uncertain.*
- P'lgs — *Massive chlorite-epidote±actinolite greenstone. Restricted to immediately west of the Llewellyn fault zone. Recrystallized and compositionally layered but poorly foliated. May be a fine-grained ± more recrystallized version of P'lpp.*
- P'lpp — *Metabasalt; may be pyroxene-phyric, chlorite amygdaloidal; massive to pillowed or pillow breccia; chlorite-epidote altered.*
- P'lv — *Mafic to intermediate tuff; typically light to medium green with dark green chloritic (phyllitic) partings; protolith textures generally not preserved.*
- P'lr — *Rhyolite flows, breccia and felsic tuff; white to tan weathering; locally upgraded to quartz-sericite schist.*
- P'la — *Argillite, siltstone, greywacke, phyllite; black to dark grey; massive to laminated or thinly-bedded (greywacke may be medium bedded); +/- siliceous; locally interbedded with tuff.*
- P'lm — *Marble, tan to locally dark grey, banded; in lenses rarely over 10m thick.*
- P'lg — *Graphitic quartz-rich siltstone; "grades" into unit EPwg.*
- P'ld — *Metadiorite; green, phyllitic, to strongly schistose, where less foliated is distinguished by 20% equant, 3mm plagioclase porphyroblasts.*

LATE PROTEROZOIC? TO PALEOZOIC METAMORPHIC SUITES

WHITEWATER SUITE; metamorphosed rifted? outer shelf and oceanic crustal slivers; Devonian-Mississippian or older.

- EPw — *UNDIVIDED WHITEWATER SUITE; predominantly unit EPwg.*
- EPwb — *Metabasite; massive to well foliated, dark green to black; hornblende(actinolite)-biotite-diopside(?)-epidote-plagioclase ± quartz gneiss.*
- EPwq — *Quartzite; white to tan, quartz >> feldspar±muscovite, accessory tourmaline and sparse garnet; as distinct layers having gradational contacts within unit EPwg.*
- EPwg — *Graphitic, quartz-rich schist; distinctive bright orange weathering, pyrrhotite-rich, with black spessartine (Mn-bearing) garnet porphyroblasts.*
- EPwr — *Rhyolite; white-weathering, alternating cm-scale feldspathic and quartzose bands, relatively rare. Could represent metamorphosed felsic sills.*
- EPwu — *Ultramafite, orange, white, and bright green-weathering serpentinite, talc-tremolite-magnesite schist and pyroxenite; locally listwanitic, as lenses within unit EPwg; generally medium to coarse grained. Pyroxenite is coarse to very coarse, dark green to black, locally well-foliated, with interstitial phlogopite ± pyrrhotite ± pyrite.*

BOUNDARY RANGES SUITE

- EPwe — *UNDIVIDED BOUNDARY RANGES METAMORPHIC SUITE; predominantly PPMBa*
- EPwsa — *Chlorite-actinolite schist and gneiss; Ranges from coarse amphibole-feldspar gneiss to fine-grained, massive greenstone chlorite; metabasite.*
- EPwsb — *Biotite-plagioclase-quartz and biotite schist; up to 80% fine to medium-grained biotite ± garnet; also includes biotite-hornblende schist; purple-brown, compositionally-layered schist and gneiss. Foliation usually flat; metapelite.*
- EPwscm — *Chlorite-muscovite schist; grey-green, usually with strong crenulation cleavage.*
- EPwscmf — *Quartz and feldspar-rich chlorite-muscovite ± garnet schist; unit consists of both primary, chlorite grade rocks or retrograde equivalent of unit PPMsbmf, with chlorite pseudomorphs after garnet, psammite.*
- EPwsq — *Psammite to quartzite (may include metarhyolite); >80% quartz, ± muscovite, biotite and garnet.*
- EPwsss — *Quartz ± sericite altered schist; white to yellow or orange weathering; in part bleached with 1-2% disseminated pyrite; derived primarily from PPMbq and PPMbcmf.*
- EPwsg — *Graphitic schist and phyllite.*
- EPwsm — *Marble; coarse, light grey lenses, generally <2 m thick.*
- EPwsmbf — *Quartz and feldspar-rich muscovite-biotite ± garnet schist; garnets generally red-brown and unaltered .*
- EPwspg — *Pelitic schist with garnet; ranges from medium grey and fine-grained to coarse amphibole-feldspar-biotite rock, all with abundant, 0.5-1.5 cm red-brown garnets.*

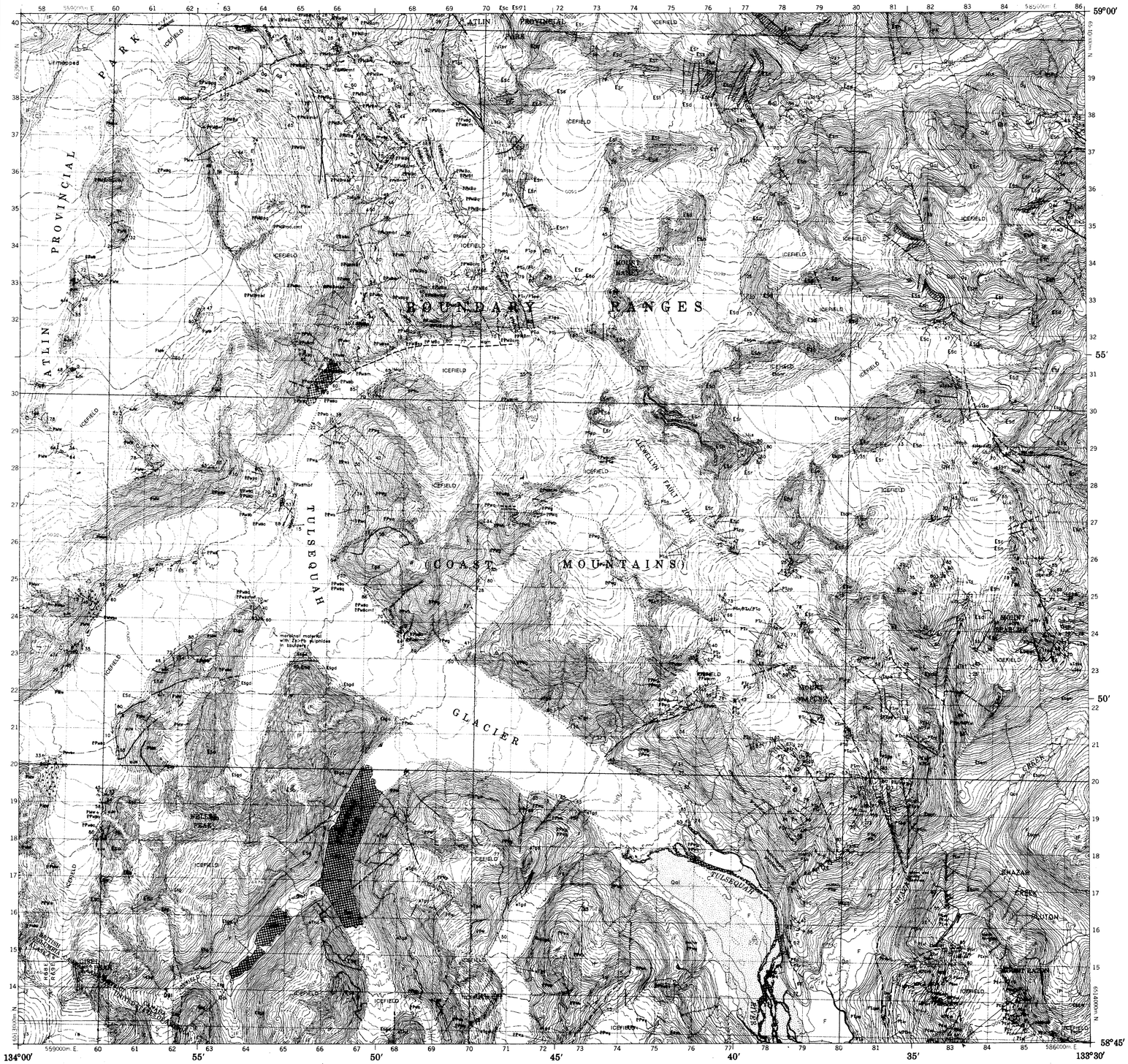
META-INTRUSIVE ROCKS

- eJH — *Hale Mountain hornblende-biotite granodiorite to diorite orthogneiss; plagioclase porphyroblastic, hornblende-biotite-quartz-epidote; epidote grains (partly of igneous? origin) and surface coatings; locally with well-developed feldspar augen; Early Jurassic.*
- Mqm — *Quartz monzonite; hornblende and biotite, locally weakly foliated, brecciated, generally pyritic, sometimes bleached, grey to slightly green-weathering; Mesozoic, ?Triassic.*
- PMpx — *Pyroxenite and miscellaneous ultramafic rocks of limited extent; Paleozoic to Mesozoic and younger.*
- M'lg, M'lgd — *K-feldspar megacrystic orthogneiss; greenish with pink K-spar augen; interlayered with green, medium-grained amphibolite, granite (MTgl) and granodiorite (MTgd); Paleozoic to Triassic.*
- PMw, PMwbx — *Wann River Gneiss; hornblende-rich gneiss, well layered on a mm to cm scale, lesser biotite; locally brecciated (PMwbx) and intruded by younger leucocratic phase; Permian.*
- DMqm — *Quartz monzonite orthogneiss; Devono-Mississippian.*

INTRUSIVE ROCKS (NON-METAMORPHOSED)

- Tgd — *Granodiorite-granite, medium to coarse-grained, fresh, massive, grey, wide-spaced jointing; probably part of a 35 Ma intrusive belt that extends into adjacent parts of southeast Alaska, Tertiary.*
- Esg, Esgd, Esdi, Esqm — *Sloko intrusive suite; medium-grained granite (Esgl), granodiorite to tonalite (Esgd), diorite (Esdi) and quartz monzonite (Esqm); probably comagmatic with 56 Ma Sloko Group volcanics, Eocene.*
- eTgd — *Hornblende-biotite granodiorite; mainly medium grained, white to grey weathering; locally xenolith-rich with variable fine to coarse grainsize; chlorite-lined fractures common; cut by high angle faults with <1 km offset; cut by Esg, early Tertiary, possibly Paleocene.*
- eThd — *Hornblende-biotite diorite; intruded by late ?comagmatic eTgd.*
- JKg — *Biotite granite, medium to coarse-grained, weakly chloritized to fresh; locally with wide joint spacing (up to 9 metres); previously mapped as Jura-Cretaceous, but could be as young as Tertiary.*
- TKt — *Hornblende tonalite, weakly foliated, epidote-altered, Triassic to Cretaceous?*
- PMqd — *Wendy Lake intrusive complex; quartzolite to diorite, varitextured; may be comagmatic with Mississippian dacite, but seems to mainly crosscut Mesozoic fabrics; possibly synkinematic.*

OF 94-3
Sheet 2 of 3



BC Ministry of Energy, Mines and Petroleum Resources

BRITISH COLUMBIA GEOLOGICAL SURVEY

Geological Survey Branch

OPEN FILE 1994-3

(Sheet 2 of 3)

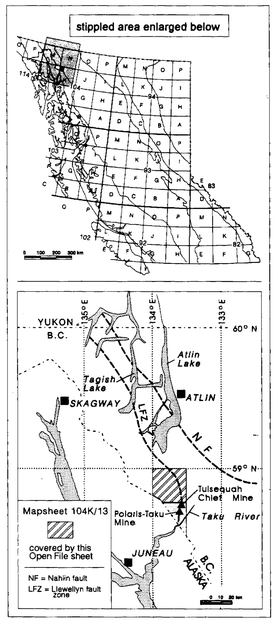
TULSEQUAH GLACIER MAP AREA GEOLOGY

NTS 104K/13

By M.G. Mihalynuk, M.T. Smith, K.D. Hancock and S. Dudka

SCALE 1:50 000

0 1 2 3 4 5 kilometres



Topographic base map (Tulsequah Glacier, 104K/13) published by the Surveys and Mapping Branch, Department of Energy, Mines and Resources, 1980.

NORTH AMERICAN DATUM 1927
TRANSVERSE MERCATOR PROJECTION

Recommended citation:
Mihalynuk, M.G., Smith, M.T., Hancock, K.D., and Dudka, S. (1994): Tulsequah Glacier Map Area Geology (104K/13); *B.C. Ministry of Energy, Mines and Petroleum Resources*, Open File 1994-3, Sheet 2 of 3.

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Sheet 3 of 3

Ministry of Energy, Mines and Petroleum Resources

Geological Survey Branch

OPEN FILE 1994-3

(Sheet 3 of 3)

TULSEQUAH RIVER AND GLACIER MAP AREA LITHOGEOCHEMISTRY

NTS 104K/12, 13

By M.G. Mihalynuk, M.T. Smith, K.D. Hancock, S. Dudka and J.G. Payne

SCALE 1:100 000

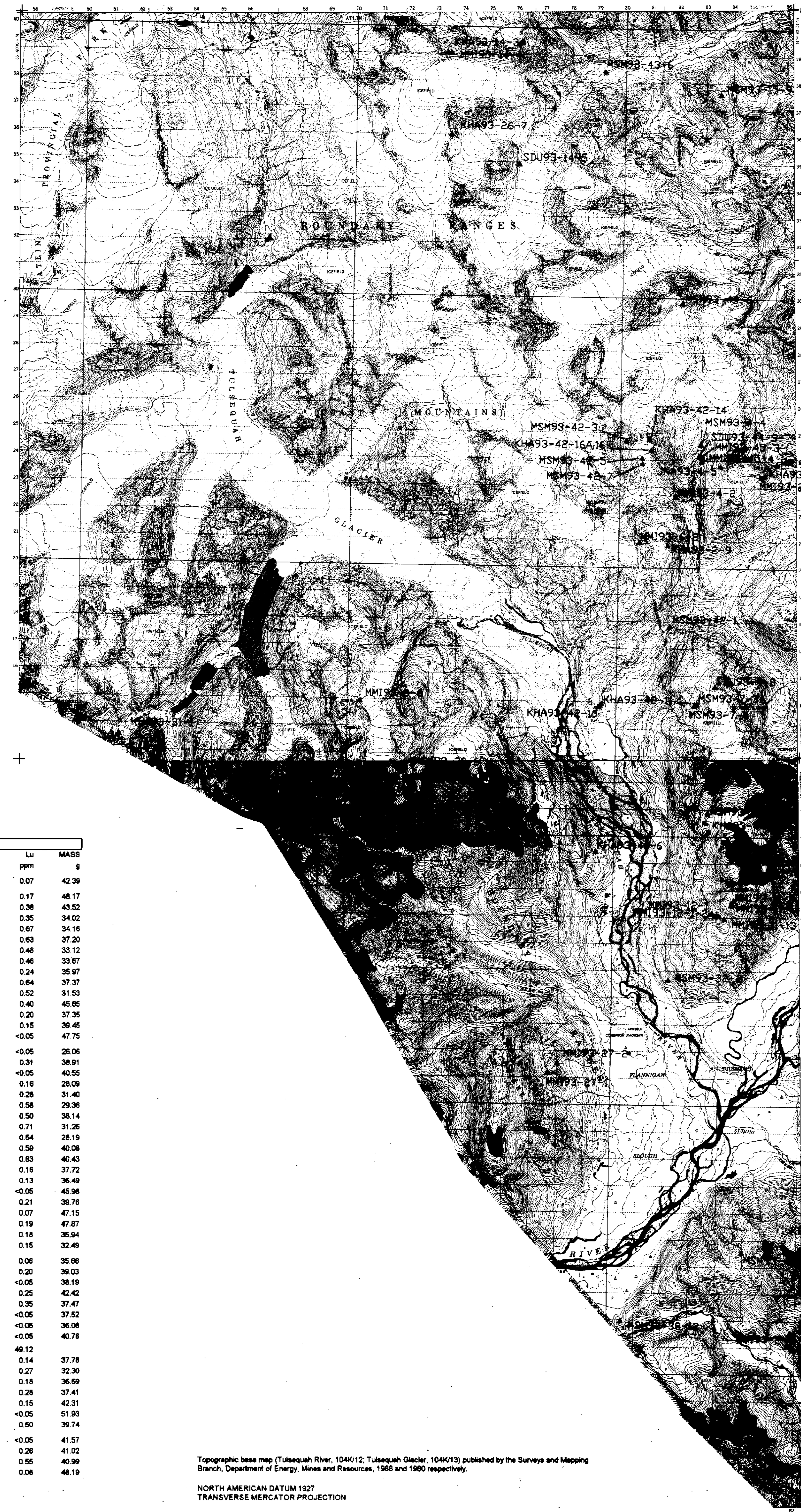
0 2 4 6 8 10 kilometres

INDUCTIVELY COUPLED PLASMA ANALYSIS RESULTS

FIELD NUMBER	NTS	UTM E	UTMN	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm
JNA93-4-5	13	583700	6523700	1	19	6	40	0.1	1	43	285	1.28	2	5	2	92	0.2	2	2	26	0.56	0.023	2	1	0.35	15	0.10	2	0.91	0.10	0.02	333
KHA93-2-9	13	581800	6520735	1	114	2	37	0.1	186	46	540	4.40	6	5	2	68	0.6	2	3	57	0.62	0.044	2	179	5.03	62	0.15	3	3.12	0.12	0.69	10
KHA93-4-15	12	583500	6510125	8	57	11	214	1.6	53	18	668	4.12	416	5	2	149	0.5	17	2	38	1.76	0.038	3	17	0.60	134	0.07	6	2.24	0.36	0.14	99
KHA93-11-8	12	585750	6506810	12	31	97	112	0.1	33	20	>100000	1.43	33	5	2	307	0.2	2	2	11	17.61	0.252	11	3	0.05	122	0.03	8	0.23	0.05	0.05	27
KHA93-14-3A	13	574505	6538800	4	3	24	24	1.0	1	26	67	1.88	14	5	4	5	0.2	3	2	2	0.01	0.017	28	1	0.01	112	0.01	3	0.26	0.07	0.21	112
KHA93-21-3	13	585370	6523380	330	10414	19020	3880	68.1	1	13	644	4.90	10	12	18	8	6.0	8	104	3	0.05	0.021	24	4	0.15	81	0.01	3	1.17	0.01	0.23	72
KHA93-26-7	13	573475	6535875	3	10	26	15	0.4	1	18	28	0.81	30	5	3	4	0.2	2	2	2	0.02	0.010	10	1	0.02	107	0.01	2	0.31	0.04	0.22	128
KHA93-31-1	13	561550	6513450	1	2	6	13	0.1	1	37	133	1.96	2	5	9	6	0.2	2	2	2	0.01	0.006	20	1	0.13	41	0.01	2	0.41	0.04	0.30	311
KHA93-40-6	12	579325	6509350	4	114	11	126	0.4	116	53	1006	6.61	187	5	2	48	1.4	14	2	108	2.24	0.058	4	117	2.86	69	0.01	2	2.21	0.04	0.11	87
KHA93-41-7	11	587450	6495060	131	213	20	1212	1.5	189	59	256	5.33	66	14	5	13	10.9	16	3	632	1.76	0.471	17	72	1.28	63	0.13	3	0.87	0.05	0.20	171
KHA93-42-10	13	579350	6514750	20	104	4	20	0.1	18	41	266	2.53	13	5	2	22	0.2	2	4	47	0.40	0.029	3	11	0.78	234	0.10	3	1.11	0.10	0.13	340
KHA93-42-11	13	579480	6514890	2	326	2	20	0.9	38	37	182	4.73	8	5	2	110	0.7	4	2	25	1.78	0.075	2	22	0.41	18	0.18	2	2.51	0.58	0.04	79
KHA93-42-14	13	581080	6524680	15	99	396	258	1.7	26	37	558	3.06	160	5	5	8	3.1	8	3	28	0.10	0.031	7	36	0.93	49	0.01	3	0.96	0.05	0.27	200
KHA93-42-16A	13	581125	6524275	8	333	227	1312	7.1	61	37	2093	4.00	76	5	3	15	21.2	8	12	27	0.46	0.034	3	56	0.97	35	0.10	3	1.32	0.08	0.43	179
KHA93-42-16F	13	581225	6523875	1	2259	2	41	1.3	22	168	63	33.40	6	5	2	2	2.2	2	2	2	0.13	0.012	2	1	0.11	2	0.01	2	0.10	0.01	0.01	19
MMI93-2-4	12	586750	6491080	1	4	2	2	0.1	11	16	147	0.33	5	5	2	317	0.2	2	2	4	21.85	0.009	2	9	0.57	7	0.01	2	0.17	0.03	0.04	77
MMI93-4-2	13	582085	6522555	3	59	2	46	0.1	246	43	155	4.16	11	5	2	198	0.5	4	2	74	1.85	0.046	3	178	2.09	208	0.22	6	4.07	0.84	1.46	107
MMI93-6-2	13	580750	6520850	1	3	2	21	0.1	95	61	1156	2.45	7	5	2	212	0.3	2	2	25	7.75	0.006	2	317	6.68	437	0.01	3	0.54	0.01	0.01	137
MMI93-8-6	13	570470	6514820	26	328	10	23	0.8	9	48	164	1.60	4	5	5	16	0.3	2	2	16	0.33	0.036	9	4	0.26	62	0.09	3	0.41	0.10	0.09	367
MMI93-11-8	12	584400	6507400	1	87	5	65	0.4	9	48	417	5.92	5054	5	2	73	0.7	16	2	66	1.15	0.044	3	10	1.17	142	0.05	6	2.39	0.21	0.39	137
MMI93-11-10	12	584475	6507575	9	38	2	138	1.5	38	41	502	4.04	94	5	2	185	0.6	13	2	64	1.83	0.037	4	31	1.08	178	0.10	9	3.39	0.49	0.55	153
MMI93-11-13	12	584150	6506900	1	26	6	16	0.1	6	20	189	4.47	11	5	2	13	0.2	3	2	48	0.21	0.125	6	8	0.53	51	0.05	5	0.92	0.04	0.46	65
MMI93-12-1	12	583675	6507100	5	4046	44	73	8.7	3	34	452	6.71	40	5	2	9	0.6	6	5	35	0.28	0.076	17	2	1.47	17	0.01	2	2.20	0.07	0.06	81
MMI93-12-1(DUP)	12	583675	6507100	5	4155	41	74	8.7	2	34	446	6.71	39	5	2	9	0.7	5	2	35	0.30	0.076	16	3	1.47	18	0.01	2	2.22	0.07	0.06	80
MMI93-12-1-2	12	583675	6507100	2	1600	4	38	1.4	2	23	245	2.17	61	5	2	15	0.2	42	3	11	0.51	0.027	16	1	0.70	114	0.01	4	1.00	0.07	0.27	138
MMI93-14-4	13	573465	6538930	7	5	33	61	0.6	1	12	331	2.93	72	5	6	6	0.2	5	2	2	0.03	0.029	27	1	0.03	108	0.01	4	0.50	0.04	0.19	76
MMI93-21-2	13	585225	6523300	33	8	20	24	0.7	4	48	291	1.05	2	5	3	7	0.2	2	3	7	0.14	0.017	8	4	0.04	34	0.01	2	0.24	0.01	0.13	530
MMI93-21-7	13	585800	6523800	3	4	15	16	0.1	1	14	132	2.69	6	5	4	56	0.2	2	2	5	0.84	0.070	2	1	0.36	92	0.01	4	0.64	0.04	0.26	120
MMI93-25-8	12	578000	6509650	1	19	2	40	0.1	1440	83	796	3.27	11	5	2	37	0.3	2	2	16	0.35	0.024	2	911	13.25	67	0.01	4	0.75	0.01	0.03	39
MMI93-27-1	12	577675	6501100	1	138	2	56	0.1	12	22	316	5.08	2	5	2	86	0.7	2	2	124	2.13	0.066	2	17	1.25	150	0.23	2	4.71	0.40	1.75	49
MMI93-27-2	12	578325	6501450	1	8	2	29	0.1	39	44	221	9.68	6	5	2	13	0.7	2	3	332	0.52	0.009	2	9	1.45	209	0.28	2	0.85	0.03	0.63	43
MMI93-41-5	11	587450	6495060	1	1736	65	495	3.8	177	190	206	10.42	120	5	2	11	3.5	2	2	52	0.98	0.123	3	37	0.79	2	0.06	2	0.78	0.04	0.01	63
MMI93-45-3	13	583000	6524050	1	57	19554	9724	24.7	40	52	1948	3.96	2	5	2	111	105.7	16	3	45	10.05	0.050	2	42	2.19	10	0.09	2	2.19	0.01	0.09	91
MMI93-45-4	13	583000	6523880	106	18	39	36	2.1	5	54	549	2.20	17	5	2	220	0.3	9	2	19	4.10	0.022	3	2	1.12	32	0.01	2	0.19	0.01	0.13	524
MSM93-4-4	13	582975	6524500	248	5	97	4	7.3	1	53	52	0.15	8	5	2	12	0.2	17	2	2	0.01	0.002	2	1	0.01	228	0.01	2	0.12	0.01	0.06	340
MSM93-7-3A	13	583000	6514850	1	11	2	22	0.1	41	86	7	5.30	434	5	2	22	0.2	17	3	3	0.65	0.245	8	22	0.03	36	0.01	8	0.53	0.01	0.31	94
MSM93-7-4	13	582900	6514800	26	4	34	17	1.1	33	89	35	3.24	96	5	2	3	0.2	22	2	2	0.02	0.010	2	5	0.05	8	0.01	4	0.06	0.01	0.02	658
MSM93-12-7	12	583450	6510800	1	87	4	34	0.2	21	34	279	5.42	10	5	2	32	0.3	2	2	70	1.03	0.055	2	11	1.12	88	0.28	5	2.06	0.12	0.17	122
MSM93-15-9	13	583500	6537500	2	8	16	45	0.1	4	26	927	4.57	26	5	2	285	0.4	4	2	10	5.36	0.043	11	1	1.01	45	0.01	4	0.42	0.04	0.14	74
MSM93-30-6	12	572400	6512600	4	30	10	32	0.5	8	75	91	1.11	21	5	2	2	0.8	3	2	9	0.01	0.005	3	4	0.02	34	0.01	2	0.11	0.01	0.08	370
MSM93-32-2	12	582100	6504600	8	2306	3089	20344	64.7	51	63	364	5.27	4654	5	2	9	785.2	16	80	22	0.04	0.017	2	128	1.14	4	0.01	2	0.74	0.01	0.02	430
MSM93-32-2 (dup)	12	582100	6504600	7	2130	2841	22185	62.5	45	56	339	4.82	4326	5	2	9	715.1	14	72	21	0.04	0.016	2	126	1.06	4	0.01	2	0.69	0.01	0.01	305
MSM93-38-12	12	580550	6491900	1	43	704	86	22.3	14	81	2	19.78	>100000	7	2	1	6.0	494	3	2	0.01	0.003	2	1	0.01	5	0.01	2	0.03	0.01	0.02	206
MSM93-41-6	12	585000	6494500	2	106	49	99	0.9	11	36	619	9.84	16	5	2	30	1.1	2	2	189	0.86	0.154	10	14	1.78	17	0.43	2	2.90	0.04	0.03	88
MSM93-42-1	13	581925	6517725	1	84	15	72	0.3	14	46	232	6.42	117	5	2	96	0.8	5	2	65	2.44	0.029	2	4	1.15	16	0.05	2	4.18	0.30	0.12	151
MSM93-42-3	13	580200	6524600	2	84	122	34	1.5	1	22	11	3.70	573	5	2	4	0.3	8	7	2	0.04	0.002	2	1	0.01	40	0.01	3	0.28	0.01	0.23	214
MSM93-42-5	13	580800	6523975	2	12	128	15	3.2	5	19	20	2.93	139	5	3	10	0.2	9	3	2	0.02	0.002	9	1	0.02	45	0.01	3	0.22	0.01	0.20	189
MSM93-42-7	13	580620	6523770	3	696	2379	10420	16.8	6	35	225	14.30	748	17	4	2	66.3	12	19	2	0.03	0.011	2	1	0.05	8	0.01	2	0.27	0.01	0.20	207
MSM93-43-6	13	579190	6538300	58	48	7	14	0.2	9	114	83	9.71	15	5	2	7	0.5	2	2	11	0.51	0.007	2	3	0.06	14	0.03	2	0.32	0.01	0.03	275
MSM93-44-6	13	582200	6529725	1	44	11	67	0.3	9	36	632	6.06	2	5	2	175	0.5	2	2	103	1.90	0.062	3	13	1.46	63	0.19	2	3.83	0.62	0.05	87
SDU-93-5-2	12	572625	6512075	4	15	8	15	0.1	4	35	631	0.27	3	5	2	3	0.2	2	2	6	0.01	0.002	2	1	0.03	111	0.01	2	0.09	0.01	0.04	260
SDU-93-9-8	13	583650	6515500	1	31	11	77	0.4	6	35	324	7.98	1334	5	2	183	2.8	4	2	131	2.63	0.133	4	5	2.02	108	0.17	15	5.04	0.32	2.38	24
SDU93-14-5	13	576055	6534835	1	3	14	30	0.1	1	12	895	1.75	9	5	9	40	0.2	2	2	2	0.87	0.025	28	1	0.10	43	0.01	3	0.52	0.03	0.21	82
SDU93-44-9	13	582910	6524080	3	>100000	14881	22744	301.2	33	118	901	15.93	28	5	2	33	333.6	18	36	27	1.92	0.054	2	1	0.63	2	0.01	2	0.64	0.01	0.01	87

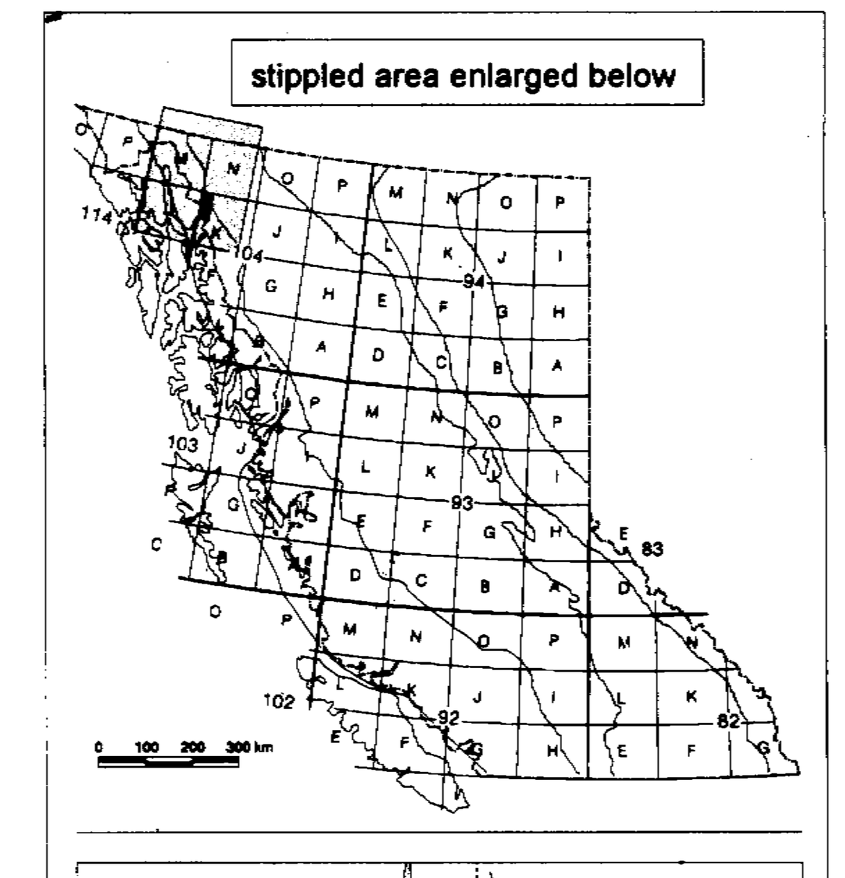
INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS RESULTS

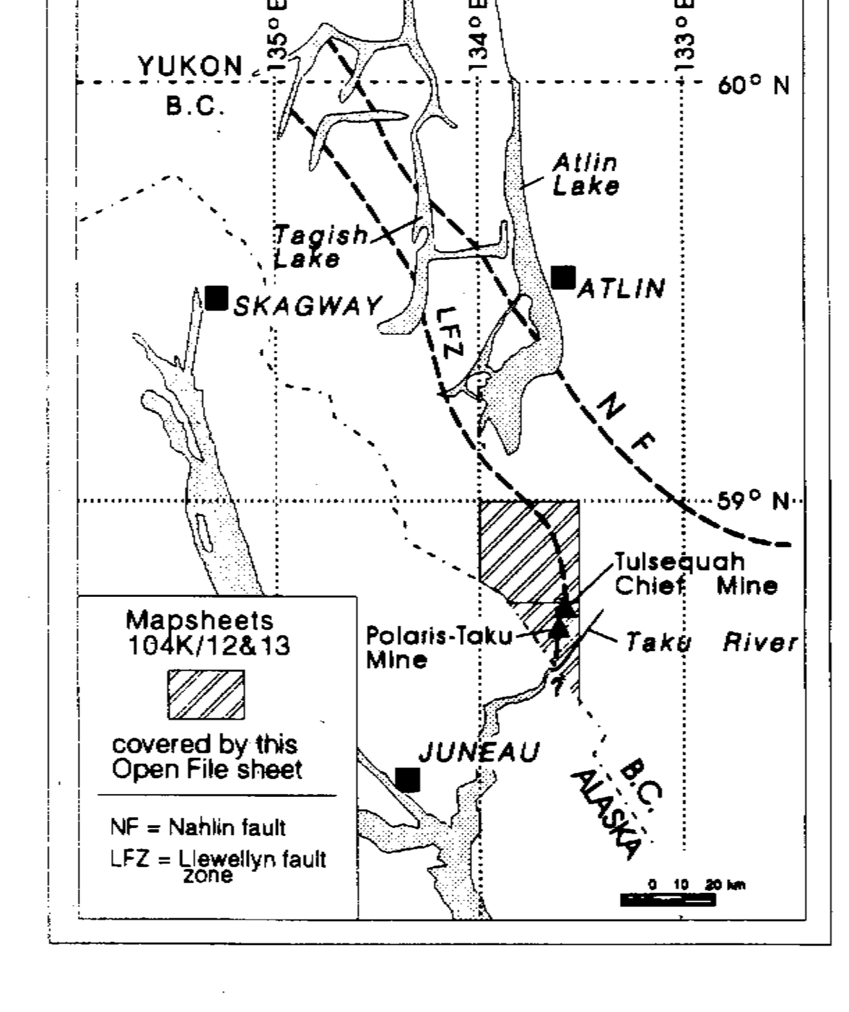
FIELD NUMBER	NTS	UTM E	UTMN	Au	Ag	As	Ba	Co	Cr	Cs	Fe	Hf	Hg	Mo	Na	Ni	Rb	Sb	Sc	Se	Ta	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	MASS
				ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
JNA93-4-5	13	583700	6523700	<2	<5	5.5	190	41	2	<1	1.83	<1	<1	<1	0.55	<20	<15	2.1	6	<3	<0.5	1.4	1.2	340	74	6	10	<5	1.1	0.4	<0.5	0.9	0.07	42.39
KHA93-2-9	13	581800	6520735	<2	<5	11.0	230	46	690	7	6.70	<1	<1	<1	0.76	220	27	2.0	30	<3	<0.5	0.7	1.1	15	80	4	7	<5	1.3	0.5	<0.5	1.1	0.17	48.17
KHA93-4-15	12	583500	6510125	16	<5	340.0	2200	17	53	3	3.91	2	<1	4	0.74	110	22	20.0	17	8	<0.5	2.4	5.5	110	275	16	27	15	3.5	1.1	1.0	3.3	0.38	43.52
KHA93-11-8	12	585750	6506810	10	<5	56.0	790	13	12	<1	1.57	<1	<1	15	0.10	66	<15	0.9	3	<3	<0.5	0.9	1.8	39	173	11	9	8	1.7	0.6	0.6	3.2	0.35	34.02
KHA93-14-3A	13	574505	6538800	<2	<5	23.0	2600	22	2	3	1.85	8	<1	<1	3.67	<28	80	3.5	10	<3	1.2	20.0	7.3	120	111	42	71	24	5.3	1.3	1.1	4.8	0.67	34.16
KHA93-21-3	13	585370	6523380	51	61	35.0	7600	11	<1	5	3.97	4	<1	180	0.16	<20	230	1.8	8	6	1.5	22.0	17.0	64	3580	22	45	11	2.4	0.7	0.8	4.3	0.63	37.20
KHA93-26-7	13	573475	6535875	8	<5	80.0	1800	14	<1	3	0.97	6	<1	<1	1.81	<20	140	5.7	7	<3	1.1	15.0	7.6	120	<50	21	34	11	2.4	0.5	<0.5	3.5	0.48	33.12
KHA93-31-1	13	561550	6513450	3	<5	65.0	1400	30	<1	2	1.85	6	<1	<1	1.24	<20	99	0.7	5	<3	2.3	15.0	6.1	280	63	34	59	23	3.9	1.0	<0.5	3.0	0.46	33.67
KHA93-40-6	12	579325	6509350	<2	<5	120.0	510	36	180	2	5.66	2	<1	2	1.12	<22	22	20.0	22	<3	<0.5	1.7	1.4	96	197	10	20	10	3.0	1.0	0.6	2.4	0.24	35.97
KHA93-41-7	11	587450	6495060	3	<5	63.0	560	42	79	<1	4.16	2	<1	74	2.16	210	19	12.0	10	26	1.1	6.4	32.0	150	1200	32	42	26	4.8	1.7	0.9	4.4	0.64	37.37
KHA93-42-10	13	579350	6514750	6	<5	35.0	4900	37	14	<1	2.34	3	<1	12	1.12	<20	22	0.6	11	<3	0.5	2.9	1.5	330	<50	14	30	14	3.7	1.0	1.0	3.8	0.52	31.53
KHA93-42-11	13	579480	6514890	9	<5	5.6	150	34	150	<1	6.47	4	<1	<1	1.57	<21	<15	1.0	30	<3	<0.5	1.0	1.2	81	77	9	21	12	3.1	1.3	0.6	3.7	0.40	45.65
KHA93-42-14	13	581080	6524680	10	<5	140.0	1800	33	54	3	2.67	2	1	6	1.29	<20	97	5.9	8	<3	0.9	6.7	4.4	200	302	12	19	<5	1.0	0.3	<0.5	1.4	0.20	37.35
KHA93-42-16A	13	581125	6524275	5	7	69.0	1300	34	110	6	4.02	2	1	3	0.38	<20	100	8.7	10	3	0.9	5.0	3.7	190	1420	9	17	7	1.4	0.4	<0.5	1.5	0.15	39.45
KHA93-42-16F	13	581225	6523875	30	<5	9.3	<50	170	10	<1	36.00	<1	<1	<1	0.04	<22	<15	3.6	1	18	<0.5	0.3	<0.5	23	111	1	<3	<5	<0.1	<0.2	<0.5	0.3	<0.05	47.75
MMI93-2-4	12	586750	6491080	<2	<5	11.0	71	13	45	<1	0.55	<1	<1	<1	0.12	<20	<15	0.8	1	<3	<0.5	<0.2	4.0	140	<50	4	4	<5	0.7	0.3	<0.5	0.5	<0.05	26.06
MMI93-4-2	13	582085	6522555	<2	<5	20.0	930	45	310	16	5.65	4	<1	<1	1.90	300	83	14.0	24	<3	1.1	5.4	3.0	190	96	20	35	21	3.7	1.1	<0.5	2.9	0.31	38.91
MMI93-6-2	13	580750	6520850	2	<5	11.0	550	35	460	<1	2.71	<1	<1	<1	0.03	150	<15	1.3	34	<3	<0.5	<0.2	<0.5	190	55	1	3	<5	0.5	0.3	<0.5	0.4	<0.05	40.55
MMI93-8-6	13	570470	6514820	27	<5	12.0	3700	57	14	2	3.57	3	<1	22	2.98	<27	63	0.9	9	<3	1.6	9.2	5.0	450	90	21	35	12	2.4	1.0	<0.5	1.6	0.16	28.09
MMI93-11-8	12	584400	6507400	34	<5	5400.0	1400	52	23	6	7.38	3	<1	<1	2.70	<20	60	28.0	21	<3	0.7	4.7	3.4	190	85	10	22	12	2.5	0.8	<0.5	2.4	0.28	31.40
MMI93-11-10	12	584475	6507575	8	<5	130.0	2700	46	78	8	5.37	3	<1	10	1.14	110	52	18.0	22	4	0.8	4.1	3.9	270	271	20	37	17	4.5	1.5	1.1	4.3	0.58	29.36
MMI93-11-13	12	584150	6506900	25	<5	16.0	1000	23	14	4	5.32	3	2	<1	1.55	<27	110	5.3	32	10	<0.5	5.5	3.2	79	85	17	31	10	3.7	1.3	0.7	4.0	0.50	38.14
MMI93-12-1	12	583675	6507100	11	12	50.0	180	34	6	1	7.98	4	<1	3	4.76	<35	18	13.0	21	10	<0.5	5.3	3.4	120	93	46	79	37	7.3	1.6	1.0	5.0	0.71	31.26
MMI93-12-1(DUP)	12	583675	6507100	<2	10	56.0	<50	40	7	<1	8.07	5	<1	6	5.48	<37	<15	13.0	20	12	1.7	4.7	2.2	120	112	45	82	31	7.4	1.7	1.3	4.9	0.64	28.19
MMI93-12-1-2	12	583675	6507100	<2	<5	77.0	560	26	2	2	2.79	5	<1	<1	3.73	<24	43	59.0	10	<3	0.8	5.0	2.9	170	<50	24	45	21	4.2	1.1	0.7	4.1	0.59	40.08
MMI93-14-4	13	573465	6538930	8	<5	87.0	4300	13	2	4	3.13	10	<1	<1	2.44	<22	140	15.0	10	<3	1.3	23.0	11.0	100	68	49	79	26	5.5	1.4	1.1	6.0	0.83	40.43
MMI93-21-2	13	585225	6523300	5	<5	13.0	550	42	18	3	1.05	2	1	22	0.06	<20	78	7.1	4	<3	0.9	5.5	7.5	530	58	11	20	7	1.4	0.3	<0.5	1.1	0.16	37.72
MMI93-21-7	13	585800	6523800	10	<5	53.0	1900	15	4	5	2.77	5	<1	<1	1.82	<20	94	2.8	6	<3	1.4	5.9	4.8	130	<50	5	8	7	1.0	0.5	<0.5	1.0	0.13	36.49
MMI93-25-8	12	578000	6509650	<2	<5	40.0	210	62	1800	1	3.93	<1	<1	<1	0.02	1400	<15	3.0	6	<3	<0.5	0.4	0.6	56	73	1	<3	<5	0.2	<0.2	<0.5	0.2	<0.05	45.98
MMI93-27-1	12	577675	6501100	<2	<5	56.0	410	24	31	2	5.90	3	<1	<1	1.11	<23	66	1.4	27	<3	<0.5	1.2	<0.5	85	117	9	19	7	3.0	1.0	0.6	2.3	0.21	39.76
MMI93-27-2	12	578325	6501450	<2	<5	25.0	270	70	20	<1	13.60	1	<1	<1	0.12	130	20	0.3	75	<3	<0.5	<0.2	<0.5	47	150	2	4	<5	1.2	0.3	<0.5	0.4	0.07	47.15
MMI93-41-5	11	587450	6495060	10	<5	110.0	<50	180	160	<1	13.40	<1	<1	<1	0.65	180	20	2.4	35	31	<0.5	0.4	<0.5	69	490	5	8	<5	1.7	0.5	<0.5	1.3	0.19	47.87
MMI93-45-3	13	583000	6524050	27	25	5.0	130	33	93	2	4.79	1	6	4	0.12	<21	57	14.0	16	190	<0.5	0.5	2.1	89	15400	5	9	<5	1.2	1.2	<0.5	1.2	0.18	35.94
MMI93-45-4	13	583000	6523880	22	<5	22.0	220	51	17	3	2.64	1	<1	100	0.03	<20	54	19.0	5	<3	1.0	1.5	1.5	670	83	6	12	7	1.3	0.4	<0.5	0.9	0.15	32.49
MSM93-4-4	13	582975	6524500	71	10	11.0	450	50	3	2	0.25	<1	<1	200	0.03	<20	<15	47.0	1	<3	0.9	1.4	0.8	560	<50	3	6	<5	0.3	<0.2	<0.5	0.5	0.06	35.66
MSM93-7-3A	13	583000	6514850	4	<5	450.0	400	83	270	5	5.60	5	<1	<1	0.08	<23	56	35.0	22	<3	2.3	2.1	<0.5	110	64	37	73	32	7.8	2.4	0.9	2.0	0.20	39.03
MSM93-7-4	13	582900	6514800	77	<5	89.0	130	76	20	<1	2.67	<1	<1	20	0.02	<20	<15	28.0	1	5	1.2	<0.2	1.3	700	51	2	<3	<5	0.2	<0.2	<0.5	0.2	<0.05	38.19
MSM93-12-7	12	583450	6510800	7	<5	16.0	1500	36	29	<1	7.67	2	<1	<1	1.22	<25	47	12.0	35	<3	<0.5	3.6	1.5	140	66	13	22	7	2.4	0.9	0.6	2.3	0.25	42.42
MSM93-15-9	13	583500	6537500	8	<5	27.0	1500	20	4	2	4.10	6	<1	<1	1.83	<20	34	4.5	10	<3	<0.5	11.0	4.6	80	77	23	41	15	3.6	1.5	<0.5	2.9	0.35	37.47
MSM93-30-6	12	572400	6512600	47	<5	110.0	220	51	18	<1	0.94	<1	<1	4	0.03	<20	20	3.7	3	<3	0.7	0.5	<0.5	560	51	2	5	<5	0.4	<0.2	<0.5	0.3	<0.05	37.52
MSM93-32-2	12	582100	6504600	320	62	3900.0	<50	50	150	<1	4.59	<1	<1	<1	0.01	100	<15	22.0	3	<3	<0.5	<0.2	2.4	300	24600	1	<3	<5	0.1	<0.2	<0.5	0.2	<0.05	36.06
MSM93-32-2 (dup)	12	582100	6504600	310	60	3600.0	<50	50	140	<1	4.41	<1	<1	<1	0.01	67	<15	22.0	3	<3	<0.5	0.6	<0.5	290	24200	1	<3	<5	0.3	<0.2	<0.5	0.2	<0.05	40.78
MSM93-38-12	12	580550	6491900	4400	38	<110	<1	<5	<1	19	<1	<2	<5	0	280.00	<15	480	0.7	26	<500	<0.2	<0.5	<40	123	<1	<3	<5	0	<0.2	<0.5	<0.5	<0.1	49.12	
MSM93-41-6	12	585000	6494500	<2	<5	11.0	220	33	23	<1	8.94	3	<1	4	0.00	<23	20	0.9	19	<3	2.2	2.8	0.8	99	81	30	52	24	4.7	1.8	0.9	2.3	0.14	37.78
MSM93-42-1	13	581925	6517725	<2	<5	120.0	220	42	17	4	7.06	3	<1	<1	0.49	<23	18	19.0	29	<3	<0.5	0.5	1.3	220	149	8	16	9	2.9	1.1	0.7	2.8	0.27	32.30
MSM93-42-3	13	580200	6524600	71	<5	510.0	1600	21	<1	1	3.53	2	<1	<1	0.07	<20	67	12.0	2	5	1.5	6.4	3.4	230	66	12	19	5	1.2	<0.2	<0.5	1.2	0.18	36.69
MSM93-42-5	13	580800	6523975	53	5	150.0	3300	21	7	3	3.07	3	<1	<1	0.17	<20	180	17.0	4	<3	2.2	8.9	4.3	220	59	64	100	34	5.3	0.9	0.8	1.8	0.28	37.41
MSM93-42-7	13	580620	6523770	541	24	900.0	380	42	<5	3	17.80	1	<1	<1	0.04	<26	90	30.0	4	7	1.0	6.0	22.0	240	18200	8	11	<5	0.5	0.4	<0.5	0.9	0.15	42.31
MSM93-43-6	13	579190	6538300	7	<5	12.0	230	130	9	<1	10.50	<1	1	52	0.13	<20	26	1.8	2	<3	0.7	0.4	<0.5	340	<50	1	<3	<5	0.2	<0.2	<0.5	<0.1	<0.05	51.93
MSM93-44-6	13	582200	6529725	3	<5	9.7	950	42	24	1	8.38	3	<1	2	2.57	<28	34	8.2	28	<3	1.3	7.8	2.3	150	138	23	41	19	4.5	1.6	0.8	3.6	0.50	39.74
SDU-93-5-2	12	572625	6512075	5	<5	8.3	300	32	5	1	0.35	<1	<1	4	0.04	<20	<15	5.0	1	<3	0.6	0.8	<0.5	420	<50	2	5	<5	0.3	<0.2	<0.5	0.3	<0.05	41.57
SDU-93-9-8	13	583650	6515500	24	<5	1300.0	1500	33	14	11	8.64	3	<1	<1	0.31	<28	93	2.9	27	13	<0.5	4.1	4.0	47	96	23	41	15	3.8	1.0	<0.5	2.7	0.26	41.02
SDU93-14-5	13	576055	6534835	<2	<5	12.0	1700	12	3	4	2.00	7	<1	<1	2.04	<21	140	4.0	7	<3	1.2	18.0	8.6	89	82	34	58	29	4.6	1.0	1.0	4.1	0.55	40.99
SDU93-44-9	13	582910	6524080	290	570	58.0	<50	110	<5	<1	16.10	<1	36	5	0.01	<20	<15	17.0	2	560	<0.5	<0.2	<0.5	3	39100	2	<3	<5	0.1	<0.2	<0.5	0.3	0.06	48.19



Topographic base map (Tulsequah River, 104K/12; Tulsequah Glacier, 104K/13) published by the Surveys and Mapping Branch, Department of Energy, Mines and Resources, 1988 and 1980 respectively.

NORTH AMERICAN DATUM 1927
TRANSVERSE MERCATOR PROJECTION





Recommended citation:
Mihalynuk, M.G., Smith, M.T., Hancock, K.D., Dudka, S. and Payne, J.G. (1994): **Tulsequah River and Glacier Map Area Lithogeochemistry** (104K/12, 13); ***B.C. Ministry of Energy, Mines and Petroleum Resources***, Open File 1994-3, Sheet 3 of 3.