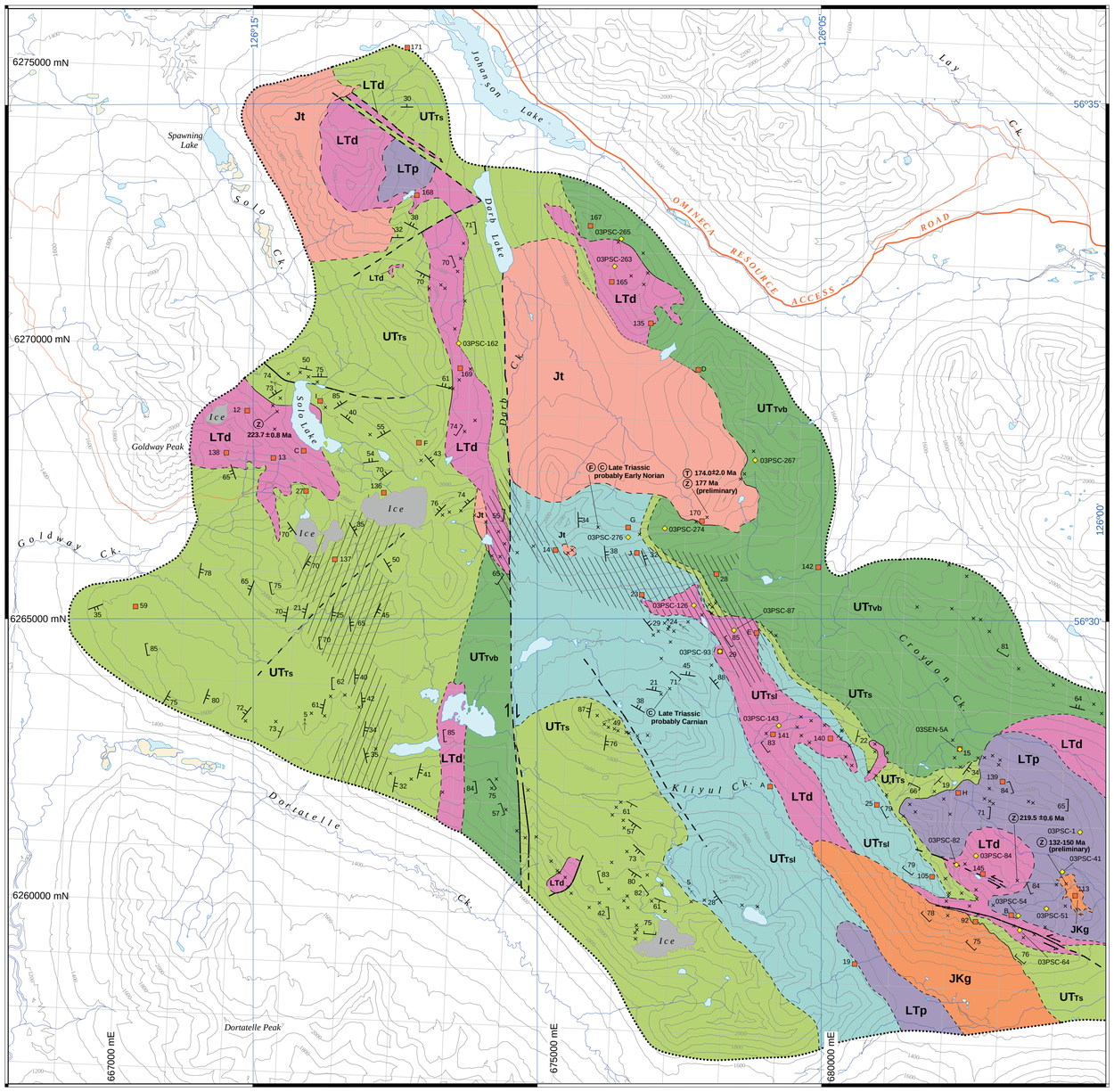

MINFILE TABLE

Map_reference	Minfile_no	Name	Easting	Northing	Commodities	Description	Reference
12	094D 012	Solo	669,220	6,268,870	Au, Ag	quartz veins and stockwork; py, ga	Richards, 1991
13	094D 013	Bruce	669,520	6,268,040	Au, Ag	quartz veins; py, ga, nAu	Richards, 1991
14	094D 014	Ginger B	674,670	6,266,590	Au, Ag	quartz veins; py (ga, cpy)	White, 1948
15	094D 015	Croy	682,110	6,263,320	Cu, Au, Ag	shear zones; qtz, carb, chl, py, po, mag, cpy	Noel, 1971a
19	094D 019	Kli	680,380	6,259,370	Cu	skarn; cpy, py	Noel, 1971b
23	094D 023	Kliyul	676,260	6,265,850	Au, Ag, Cu	magnetite-pyrite-chalcopyrite skarn	Smit and Meyers, 1985
25	094D 025	Soup North	680,660	6,262,250	Au, Ag, Cu	magnetite-pyrite-chalcopyrite skarn	Smit and Meyers, 1984
27	094D 027	Goldway	670,130	6,267,470	Au, Ag	quartz veins; py, ga, cpy, sph	Richards, 1991
28	094D 028	Independence	677,590	6,266,280	Au, Ag	quartz veins	Wilson, 1984
29	094D 029	Banjo	677,643	6,264,967	Au, Ag	quartz veins, silicified shears; py, cpy, mal	Wilson, 1984
59	094D 059	Galena Ridge	667,140	6,265,270	Au	quartz vein; py, ga, cpy	Myers and Smit, 1985
92	094D 092	Lady Diana	682,560	6,260,250	Au, Ag, Cu	py, cpy (ga) in stringers, fractures, disseminations	Grexton and Roberts, 1991
105	094D 105	Soup South	681,710	6,261,000	Cu, Au, Ag	magnetite-pyrite-chalcopyrite skarn	Sinclair, 1975
113	094D 113	Davie Creek Moly	684,310	6,260,770	Mo	porphyry Mo; py, mo (cpy) in quartz stringers, stockwork, and along fractures	Folk, 1979; Grexton and Roberts, 1991
136	094D 136	Glacier	671,530	6,267,440	Au, Ag	quartz veins and stockwork; py (ga)	von Rosen, 1986; Gill, 1996
137	094D 137	Mariposite	670,700	6,266,260	Au, Ag	quartz veins and stockwork within quartz-rusty carbonate alteration zone; py (ga, cpy)	Myers and Smit, 1985; Gill, 1996
135	094D 135	Darb	676,220	6,270,740	Cu, Au	py, cpy and mal occur in shear zones, along fractures and locally within quartz veins cutting Takla volcanics along margin of diorite stock	Leriche and Luckman, 1991b; Burgoyne, 1973
139	094D 139	Aupper	682,930	6,262,720	Au, Cu, Ag	quartz veins, shears; py, cpy, mal (ga)	Grexton and Roberts, 1991
138	094D 138	Tar	668,670	6,268,100	Au	quartz veins	Richards, 1991
140	094D 140	KC 2	679,770	6,263,410	Au, Ag, Cu	silicified, carbonatized shears and quartz veins; py, cpy, mag, po, mal, az, ga, sph	Wilson, 1984; Cross, 1985
141	094D 141	Mal	678,730	6,263,440	Au, Ag	quartz-carbonate veins associated with silicified fractures and shears; py	Wilson, 1984
142	094D 142	Denum	679,420	6,266,480	Cu	quartz vein; py, cpy, mal	Wilson, 1984
145	094D 145	Karen Creek	682,750	6,261,060	Au, Ag, Cu	quartz veins, shear zones; py, cpy, mal (ga, sph)	Grexton and Roberts, 1991
165	094D 165	Joh 4	675,470	6,271,470	Cu, Au	disseminated py, cpy in diorite and diorite-hosted quartz stringers; mal along fractures	Leriche and Luckman, 1991b
167	094D 167	Joh 2	675,050	6,272,400	Cu, Au	py, lim, mal, cpy in stringers and fractures along margin of diorite pluton and in dikes and shear zones cutting adjacent volcanics	Leriche and Luckman, 1991a
168	094D 168	Joh 1	671,910	6,272,870	Au, Cu	quartz vein; lim, mal	Leriche and Luckman, 1991a
169	094D 169	Joh 3	672,820	6,269,790	Au, Cu	3 m-wide chloritized, pyritic shear zone in diorite; thick quartz vein with py, cpy	Leriche and Luckman, 1991b
170	094D 170	Joh 9	677,290	6,267,220	Au	quartz vein in shear zone in tonalite; py	Leriche and Luckman, 1991b
171	094D 171	Joh 11	671,630	6,275,520	Au, Cu	hornfelsed voclanic rock	Leriche and Luckman, 1991a
A		Cro 2	678,720	6,262,500	Au, Ag, Cu	silicified shear zones with quartz stringers; py	Fox, 1991
B		DBC	683,170	6,260,370	Au, Ag, Cu	quartz veins, shear zones; py, cpy, mal (ga)	Grexton and Roberts, 1991
C		F vein	670,060	6,268,190	Au, Ag	quartz vein; py, ga, cpy, mal, az, lim	Pawliuk, 1985
D		Joh 7	677,110	6,269,940	Cu	py, cpy in quartz veins and as disseminations in diorite dikes and adjacent volcanics; mal along fractures	Gill, 1994
E		KC 1	678,360	6,265,250	Au, Ag	quartz veins and shear zones; py, cpy, ga	Fox, 1982
F		KP0274	672,130	6,268,420	Au	quartz veins	Gill, 1996
G		Pacific Sugar	675,940	6,266,970	Cu, Au	magnetite-pyrite-chalcopyrite skarn	Gill, 1995
H		UPC	682,120	6,262,530	Au, Ag, Cu	quartz veins; py, cpy	Grexton and Roberts, 1991
I		V3	670,320	6,269,100	Au, Ag	quartz veins	von Rosen, 1986
J		873001	676,140	6,266,600	Au, Ag	sheared quartz-pyrite-altered rock	Smit and Meyers, 1985

Abbreviations: az-azurite; carb-carbonate; chl-chlorite; cpy-chalcopyrite; ga-galena; lim-limonite; mag-magnetite; mal-malachite; mo-molybdenite; nAu- native gold ; po-pyrrhotite; sph-sphalerite

ASSAY TABLE

Field_Number	Easting	Northing	Type	Mo_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppb	Ni_ppm	Co_ppm	Mn_ppm	Fe_percent	As_ppm	U_ppm	Au_ppb	Th_ppm	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_percent	P_percent	La_ppm	Cr_ppm	Mg_percent	Ba_ppm	Ti_percent	B_ppm	Al_percent	Na_percent	K_percent	W_ppm	Sc_ppm	Tl_ppm	S_percent	Hg_ppb	Se_ppm	Te_ppm	Ga_ppm	Au_ppb2	Pt_ppb	Pd_ppb
03PSC-1	684,346	6,261,917	malachite-stained gabbro	2.73	1904.24	3.88	115.9	1467	98.7	52.6	711	5.45	0.4	< .1	23.8	< .1	9.9	0.97	0.08	0.04	116	0.88	0.013	< .5	278.5	2.85	18.8	0.102	1	2.17	0.083	0.07	< .1	4	0.02	0.06	< 5	0.7	0.02	6.1	31	9	24
03PSC-41	684,058	6,261,190	quartz veinlets with pyrite-molybdenite in pyroxenite	2734.98	1867.67	1.31	15.5	2034	268.7	82.5	130	18.3	2.3	0.2	10.6	< .1	2.2	0.08	0.05	0.65	95	0.35	0.002	< .5	128.8	0.56	7.4	0.057	< 1	0.35	0.019	0.03	60.9	3.2	0.12	13.86	15	2.6	0.37	3.1	23	14	11
03PSC-51	683,800	6,260,514	silica-pyrite-altered rock from shear zone	7.76	10.03	7.04	10.7	400	3.4	6.5	73	5.88	1.8	0.1	10.3	0.3	79	< .01	0.09	20.81	73	0.08	0.139	1.4	2.2	0.52	32.6	0.199	< 1	0.6	0.08	0.85	27.7	5.4	0.6	2.92	11	0.8	6.25	4.6	11	< 2	2
03PSC-54	683,298	6,260,368	patchy pyrite-magnetite-malachite in gabbro	4.77	10871.1	2.3	143.8	14423	261.1	193.7	482	8.37	14.8	1.9	1252.3	0.2	37.2	0.52	0.36	0.11	156	0.47	0.091	1.1	199.7	1.52	26.9	0.169	< 1	1.69	0.026	0.1	0.3	7.2	0.05	1.87	26	11.6	0.29	7.3	1260	66	75
03PSC-64	683,335	6,260,107	limonite-stained silicified diorite	1.42	13.53	2.19	32.3	85	1.6	1.4	374	1.98	2.1	0.3	8.3	1	155.9	0.01	0.15	0.23	13	0.07	0.038	3.5	3.3	0.65	118	0.073	< 1	0.83	0.061	0.11	< .1	1.1	0.02	0.24	< 5	0.5	0.35	2.7	10	2	4
03PSC-82	682,143	6,261,234	malachite-limonite-stained fault zone	34.63	4050.64	3.83	151.9	11780	19.4	41.1	919	8.43	12.2	0.3	1784	0.4	18.6	0.19	0.29	0.26	164	0.68	0.138	5.3	61.5	2.4	20.8	0.112	< 1	2.47	0.007	0.04	0.4	6.5	0.02	0.19	41	3.2	1.08	9.6	1573	16	67
03PSC-84	682,487	6,261,410	quartz vein containing limonite, pyrite and chlorite	2.82	113.5	5.51	3.6	25620	5.4	11.7	157	1.7	0.1	0.1	21303.8	< .1	11.5	0.03	0.07	9.8	< 2	0.04	0.002	< .5	7.3	0.11	80.8	0.001	< 1	0.13	0.007	0.01	< .1	1.1	< .02	0.77	140	1	37.15	0.4	20884	2	4
03PSC-87	677,948	6,265,281	gossan within diorite(?)	1.49	141.99	3.3	110.7	350	3.2	5.7	896	5.31	1.4	0.1	56.8	0.3	83.9	0.16	0.17	0.26	99	0.24	0.049	0.9	2.1	2.79	48.5	0.11	< 1	3.43	0.05	0.16	< .1	3.3	0.05	0.84	< 5	1.5	0.29	7.9	63	3	7
03PSC-93	677,643	6,264,967	quartz vein with pyrite, chalcopyrite and malachite	2.46	27925.64	47.48	17.2	99999	19.6	4.6	104	1.83	1.8	0.7	3046.1	0.1	12	4.26	18.58	468.5	18	0.07	0.023	0.7	23.9	0.35	113.7	0.003	< 1	0.25	0.012	0.01	0.1	0.7	< .02	1.17	23	22.3	2.15	2	2251	< 2	31
03PSC-126	677,206	6,265,698	pyrite-silica-altered rock	1.26	47.1	3.57	47.2	171	4.3	20.4	257	5.06	7	0.1	34.4	0.2	10.4	0.1	0.18	0.49	29	0.2	0.069	0.6	1.6	1.07	31	0.111	< 1	1.14	0.026	0.1	0.5	1.1	0.03	2.41	6	2	0.64	3.2	39	< 2	3
03PSC-143	678,830	6,263,600	pyrite-limonite-altered shear zone in microgabbro	4.24	51.57	2.71	46.2	319	0.9	12.6	456	3.97	0.7	0.1	15.4	0.4	104.3	0.02	0.07	0.74	53	0.58	0.154	1.6	2.2	1.05	34.1	0.099	< 1	1.21	0.045	0.08	3.6	1.3	0.03	2.29	6	3	0.21	3.9	18	< 2	< 2
03PSC-162	672,773	6,270,237	60 cm lens with pyrite-pyrrhotite-chalcopyrite-malachite	1.48	352.55	0.78	42.9	1094	34.9	317.2	382	28.54	54	< .1	252.2	0.1	3.2	0.07	0.09	2.37	32	0.04	0.016	< .5	4	0.77	5.9	0.036	< 1	1.32	0.004	0.04	0.5	2.8	0.05	27.39	22	14.1	5.57	5.2	274	2	5
03PSC-263	675,526	6,271,738	limonite-stained quartz vein	20.31	26.93	17.91	2.8	876	2.7	3.3	90	2.49	1.5	< .1	53.5	0.1	3.8	0.01	0.11	119.72	16	0.07	0.019	< .5	5.9	0.06	8.6	0.011	< 1	0.14	0.021	0.02	0.3	1.1	< .02	0.08	48	0.9	65.8	0.6	50	5	8
03PSC-265	675,624	6,272,236	limonite-stained chlorite-epidote-calcite-quartz alteration	0.36	14.19	1.65	27.7	46	4.8	14.6	1558	3.28	1.2	< .1	6.8	0.1	354.1	0.12	0.05	0.1	29	10.2	0.041	3.4	5.9	1.07	382.5	0.001	< 1	0.76	0.008	0.13	< .1	6.7	0.03	0.31	< 5	0.4	0.17	1.7	7	4	4
03PSC-267	678,202	6,268,357	pyritic gossan	0.4	53.36	2.06	27.4	190	59	29.5	249	4.94	3.1	0.2	41.1	0.3	18.8	0.01	0.12	0.4	78	0.29	0.034	0.9	92.8	1.17	35	0.204	< 1	1.14	0.04	0.06	0.1	2.2	0.02	2.26	< 5	0.9	0.45	4.7	37	6	6
03PSC-274	676,625	6,267,061	volcaniclastic rock with heavily disseminated pyrite	0.35	23.61	1.99	36.3	137	16.8	29.8	228	4.32	0.8	0.2	26.2	0.6	42.5	0.01	0.2	0.29	85	0.71	0.061	1.7	50.1	1.01	66.7	0.147	< 1	1.62	0.137	0.22	0.2	2.3	0.07	2.12	6	3.7	0.51	5.4	31	2	3
03PSC-276	675,970	6,266,876	pyrite-silica-altered rock	2.82	67.47	1.13	37	207	21.7	14.3	195	3.58	6.6	0.3	9.4	0.3	21	0.02	0.16	0.17	49	0.4	0.061	1.8	30.6	0.72	46.9	0.161	< 1	1.1	0.06	0.31	0.1	1.5	0.05	2.05	< 5	9.4	0.19	3	14	3	6
03SEN-5A	682,116	6,263,312	pyrrhotite-pyrite-magnetite-chalcopyrite-malachite lens	0.15	99999	9.3	404.1	29651	257	476.1	881	18.13	1.1	0.2	455.5	0.2	6.1	3.01	0.07	0.14	134	0.71	0.171	1.1	38	4.16	36.8	0.135	< 1	3.34	0.004	0.42	0.1	10.6	0.16	5.87	364	29.1	0.94	9.4	642	2	4
03PSC-162rep	0	0		2.2	368.56	0.93	50.9	1130	35.6	302.6	457	29.23	56.1	< .1	304.4	0.1	3.7	0.08	0.09	2.67	36	0.05	0.017	< .5	4.3	0.89	6.1	0.042	< 1	1.48	0.006	0.05	0.6	3.1	0.06	27.73	24	14.6	6.06	6.2	294	2	< 2
	0	0																																								
Method	0	0		ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	ARMS	FAIC	FAIC	FAIC
Lab	0	0		ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM
DetectionLimit	0	0		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	1	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.2		0.02	0.02	5	0.1	0.02	0.02	2	2	2

Notes:
Prep. Rock samples jaw crushed, split & steel milled @ Acme Analytical, Vancouver.
ARMS = Aqua regia digestion - ICPMS (1 gram sample)
ACM = ACME Analytical, Vancouver
FAIC= Fire assay (30 gram sample)-inductively coupled plasma emission spectrome

Acknowledgments

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Map Base Information

1:50 000 topographic base produced from TRIM 1:20 000 scale topographic database supplied by LandData B.C. North American Datum (NAD) 83, Universal Transverse Mercator Projection, UTM Zone 9. Approximate mean magnetic declination (2004) between magnetic north and grid north is 22°52' east, decreasing about 17' annually. Elevations in metres above sea level.

Recommended Citation:

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

Geological Survey and Development Branch
OPEN FILE MAP 2004-5

GEOLOGY OF THE KLIYUL CREEK - JOHANSON LAKE AREA
PARTS OF NTS 94D/8 and 9

Contribution to the Toodoggone Targeted Geoscience Initiative II - Mining Company Partnership

Geology by: Paul Schiarizza
U-Pb dating by: Richard Friedman, The University of British Columbia
Conodont identifications by: Michael J. Orchard, Geological Survey of Canada
Digital Cartography: Harpreet K. Jaswal

Scale 1:50 000

0 1 2
kilometres

LAYERED ROCKS

Upper Triassic
TAKLA GROUP

UTTvb Dark green to grey-green, brown weathering mafic volcanic breccia; clasts dominated by pyroxene-phyric basalt; locally includes volcanic sandstone, siltstone and massive pyroxene porphyry (dikes, sills, flows)

UTTs Grey to green, fine to coarse grained volcanic sandstone, siltstone, pebble conglomerate, lapilli tuff and volcanic breccia; commonly massive, locally thin to thick bedded; typically feldspar-rich, also locally rich in pyroxene and pyroxene-bearing lithic fragments; locally includes rusty- weathered, thin-bedded siltstone and argillite, dark grey limestone, and green pyroxene-phyric basalt

UTTsl Grey to green volcanic sandstone, siltstone, conglomerate and breccia, commonly associated with dark grey limestone which occurs as lenses, slump blocks, clasts in conglomerate/breccia, and chaotically-deformed breccia matrix.

INTRUSIVE ROCKS

Late Jurassic - Early Cretaceous

JKg Light grey, locally pink, biotite granite and granodiorite

Jurassic

Jt Light grey hornblende-biotite tonalite and quartz diorite

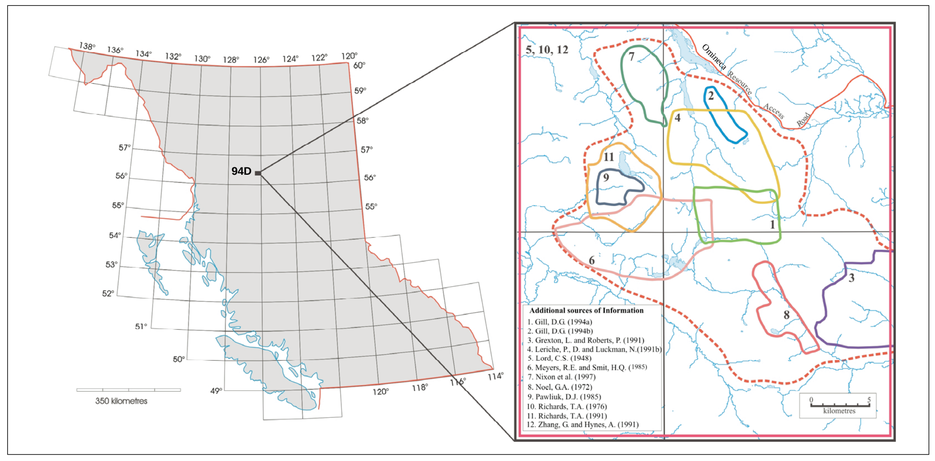
LateTriassic

Light to dark grey and greenish-grey diorite, monzodiorite and gabbro; locally includes monzonite, quartz diorite, microdiorite, hornblende-feldspar porphyry, intrusion breccia, pyroxenite and hornblendite

LTp Dark grey to grey-green pyroxenite, hornblendite and mafic gabbro; includes lesser amounts of diorite and monzodiorite

Symbols

- Limit of mapping
- Geological contact (defined, approximate,inferred)
- Fault (defined, inferred; arrows indicate relative sense of movement)
- Bedding, tops known (inclined)
- Bedding, tops unknown (inclined,vertical)
- Cleavage, schistosity (inclined,vertical)
- Axis of mesoscopic fold
- Field station location
- MINFILE occurrence and map reference number
- Assay sample with sample number
- Quartz-carbonate alteration zone
- Quartz-pyrite-sericite alteration zone
- Fossil locality (macrofossil, conodont) (F) (C)
- U-Pb age determination site (zircon, titanite) (Z) (T) 201.3 ±.5 Ma
- Road (all weather, seasonal)



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