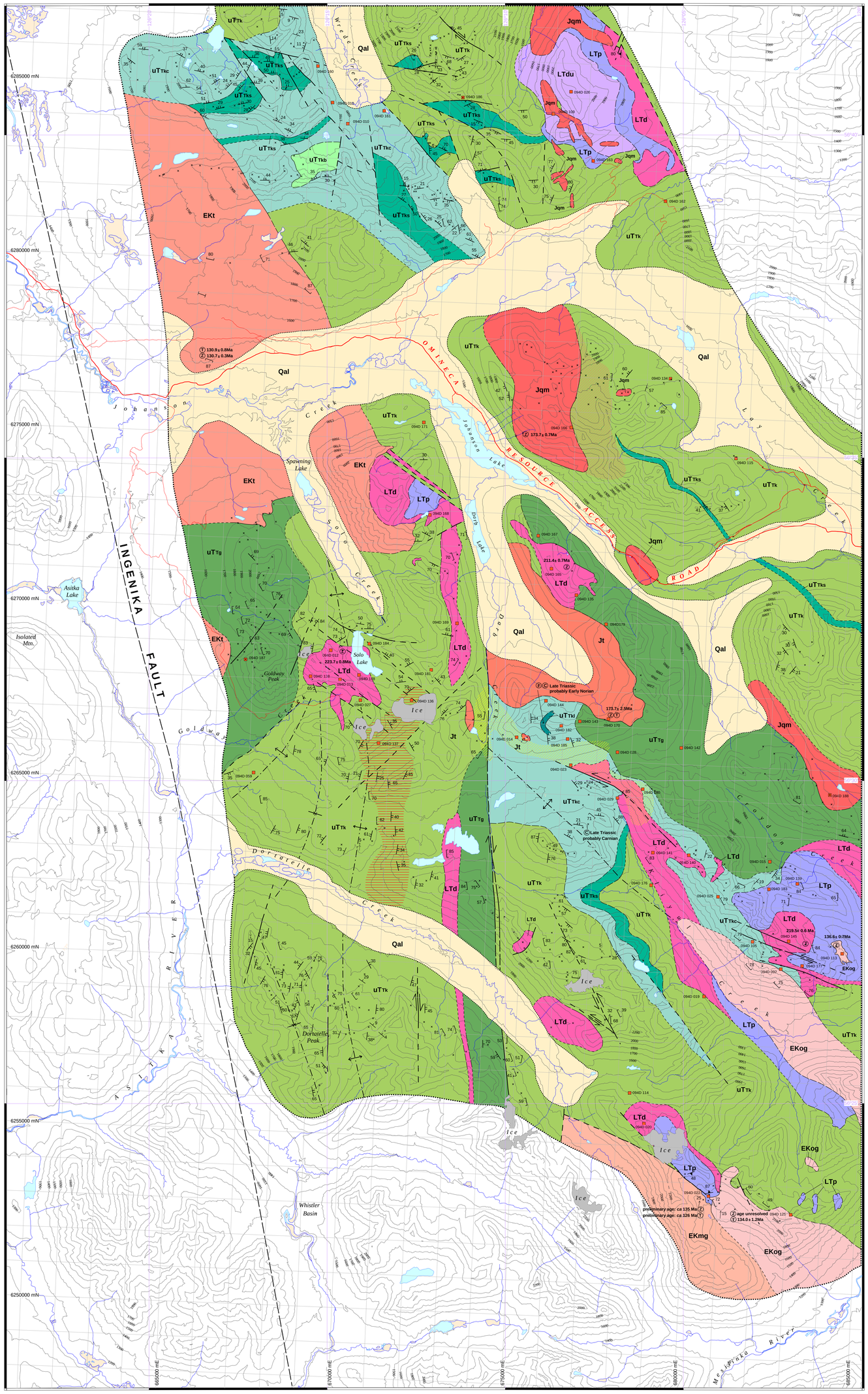

British Columbia
Ministry of Energy and Mines
Mining and Minerals Division
Geological Survey

Geological Survey and Development Branch
OPEN FILE MAP 2005-4

GEOLOGY OF THE 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 and Sen Huy Tan
U-Pb dating by: Richard Friedman, The University of British Columbia
Conodont identifications by: Michael J. Orchard, Geological Survey of Canada
Digital Cartography: Ryan Rhodes

Scale 1:50 000

0 1 2
kilometres

Quaternary

Qal Unconsolidated glacial, fluvial and alluvial deposits

Early Cretaceous

EKog Osilinka stocks: light grey, locally pink, biotite monzogranite and granodiorite; minor amounts of biotite-muscovite granite, aplite and pegmatite

EKmg Mesilinka pluton: lineated and foliated, commonly feldspar megacrystic, light grey to pink biotite monzogranite, quartz monzonite and granodiorite

EKt Light grey biotite-hornblende tonalite and quartz diorite; minor amounts of hornblende diorite

Middle Jurassic

Jt Light grey hornblende-biotite tonalite and quartz diorite

Jqm Grey to pinkish-grey hornblende quartz monzonite, quartz monzodiorite, quartz diorite, monzonite, diorite and monzodiorite

Zone of abundant monzodiorite and diorite dikes

Late Triassic

LTd 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, wehrlite and mafic gabbro; includes lesser amounts of dunite, diorite and monzodiorite

LTdu Dark grey to black, pale buff-orange weathering dunite; minor amounts of wehrlite

Upper Triassic

TAKLA GROUP

Goldway Peak unit

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

Kliyul Creek unit

uTTk 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, locally also rich in pyroxene and pyroxene-bearing lithic fragments; locally includes rusty-weathered, thin-bedded siltstone and argillite, dark grey limestone, and green pyroxene-feldspar-phyric basalt

uTTkb Grey to green pyroxene-feldspar-phyric pillowed basalt

uTTkc Sandstone-carbonate subunit: Grey to green volcanic sandstone, siltstone, conglomerate and breccia; commonly associated with dark grey limestone which occurs as beds, lenses, slump blocks, clasts in conglomerate/breccia, and chaotically-deformed breccia matrix

uTTkl Light to dark grey, massive to well-bedded limestone; minor amounts of sandy limestone and siltstone

uTTks Siltstone-limestone subunit: dark grey, reddish weathering, thin bedded siltstone, limestone and calcareous siltstone; lesser amounts of volcanic sandstone, calcareous sandstone, breccia and conglomerate

Symbols

- Limit of mapping
- Geological contact (defined, approximate,inferred)
- Fault (defined, inferred; arrows indicate relative sense of movement)
- Axial trace of fold (anticline/syncline)
- Bedding, tops known (inclined/overturned)
- Bedding, tops unknown (inclined,vertical)
- Igneous Layering
- Cleavage, schistosity (inclined,vertical)
- Stretching lineation
- Axis of mesoscopic fold
- Field station location
- MINFILE occurrence (e.g. 94D 122)
- 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)
- Ice

Mineral Occurrences

MINFILE_No.	Name	Map	Easting	Northing	Commodities	Description	Reference
094D 010	QUYZVHX	94D.069	669,100	6,284,010	Au, Ag, Cu	quartz veins in shear zones; py, cpy	Cruickshank, 1990; Christopher, 1986
094D 010	Solomon	94D.069	668,640	6,284,600	Au, Ag, Cu, Pb	quartz veins in shear zones; py, ga, cpy, nAu	Cruickshank, 1990; Christopher, 1986
094D 012	Solo	94D.059	669,220	6,268,870	Au, Ag	quartz veins and stockwork; py, ga	Richards, 1991
094D 013	Bruce	94D.059	669,520	6,268,040	Au, Ag	quartz veins; py, ga, nAu	Richards, 1991
094D 014	Ginger B	94D.060	674,670	6,266,590	Au, Ag	quartz veins; py (ga, cpy)	White, 1948
094D 015	Croy	94D.050	682,110	6,263,320	Cu, Au, Ag	shear zones; quartz, carb, chl, py, po, mag, cpy	Noel, 1971a
094D 019	Kli	94D.050	680,380	6,259,370	Cu	skarn; cpy, py	Noël, 1971b
094D 020	Ringo	94D.050	678,800	6,255,660	Mo, Cu	mo in felsic dike; py-cpy in quartz veins	Cooke, 1972
094D 022	Mesilinka River	94D.040	680,750	6,253,650	Cr	chromite disseminated in peridotite	Lord, 1948, p. 29, 64
094D 023	Kliyul	94D.060	676,260	6,265,850	Au, Ag, Cu	magnetite-pyrite-chalcopyrite skarn	Smit and Meyers, 1985
094D 025	Soup North	94D.060	680,660	6,262,250	Au, Ag, Cu	stratabound magnetite-pyrite-chalcopyrite replacement	Smit and Meyers, 1984
094D 026	Wrede Creek Chromite	94D.070	675,460	6,285,190	Cr, Pt	chromitite lenses in dunite	Nixon et al., 1997; Chapter 6
094D 027	Goldway	94D.059	670,130	6,267,470	Au, Ag	quartz veins; py, ga, cpy, sph	Richards, 1991
094D 028	Independence	94D.060	677,590	6,266,280	Au, Ag	quartz veins	Wilson, 1984
094D 029	Banjo	94D.050	677,643	6,264,967	Au, Ag	quartz veins, silicified shears; py, cpy, mal	Wilson, 1984
094D 059	Galena Ridge	94D.059	667,140	6,265,270	Au	quartz vein; py, ga, cpy	Myers and Smit, 1985
094D 092	Lady Diana	94D.050	682,560	6,260,250	Au, Ag, Cu	py, cpy (ga) in stringers, fractures, disseminations	Grexton and Roberts, 1991
094D 105	Soup South	94D.050	681,710	6,261,000	Cu, Au, Ag	stratabound magnetite-pyrite-chalcopyrite replacement	Sinclair, 1975
094D 109	Nik	94D.070	674,980	6,284,530	Cu, Mo	py, po, cpy, rare mo as disseminations in diorite and peridotite, in fracture coatings, and in veins	Bates, 1976
094D 113	Davie Creek Moly	94D.050	684,310	6,260,770	Mo	porphyry Mo; py, mo (cpy) in quartz stringers, stockwork, and along fractures	Folk, 1979; Grexton and Roberts, 1991
094D 114	McConnell Creek Beryl	94D.050	678,350	6,256,510	Beryl	beryl crystals in one of many blocks of pegmatite found in a moraine	Lord, 1948, p. 64
094D 115	Breccia	94D.060	680,640	6,274,860	Cu, Mo	cpy, py, born, mo as disseminations, blebs and fracture and vein fillings in secondary polylithic breccia, andesite and quartz diorite	Christopher, 1982
094D 125	Kelly	94D.040	683,150	6,253,210	Mo	"MoS2 in pegmatite" along granodiorite/Takla contact	map in Property File
094D 134	Lay Creek	94D.070	678,660	6,277,070	Cu, Au, Ag	quartz-carbonate lens (vein?) with massive py, cpy	Serack, 1983
094D 135	Darb	94D.060	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
094D 136	Glacier	94D.059	671,530	6,267,440	Au, Ag	quartz veins and stockwork; py (ga)	von Rosen, 1986; Gill, 1996
094D 137	Mariposite	94D.059 94D.049	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
094D 139	Aupper	94D.050	682,930	6,262,720	Au, Cu, Ag	quartz veins, shears; py, cpy, mal (ga)	Grexton and Roberts, 1991
094D 138	Tar	94D.059	668,670	6,268,100	Au	quartz veins	Richards, 1991
094D 140	KC 2	94D.060	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
094D 141	Mal	94D.060	678,730	6,263,440	Au, Ag	quartz-carbonate veins associated with silicified fractures and shears; py	Wilson, 1984
094D 142	Denum	94D.060	679,420	6,266,480	Cu	quartz vein; py, cpy, mal	Wilson, 1984
094D 143	Critter	94D.060	676,470	6,267,120	Cu, Au	"cpy and magnetite"	map in Property File
094D 144	Moraine	94D.060	675,470	6,267,670	Cu	"Cu"	map in Property File
094D 145	Karen Creek	94D.050	682,750	6,261,060	Au, Ag, Cu	quartz veins, shear zones; py, cpy, mal (ga, sph)	Grexton and Roberts, 1991
094D 160	Fisher	94D.069	668,180	6,285,630	Au, Ag, Cu, Pb	quartz vein; py, cpy, ga, mal, az	Smith, 1985
094D 161	Inge	94D.069	670,130	6,284,420	Au, Ag, Cu	quartz vein in shear zone; py, cpy, po, mal	Smith, 1985
094D 162	Redgold	94D.070	678,300	6,282,160	Cu, Mo	py, rare traces of cpy and mo, as disseminations and along fractures	Mustard and Wong, 1979
094D 163	Grapes	94D.070	676,180	6,283,230	Cu, Mo	py, po, cpy, born, mo as disseminations and in fractures	Bates, 1979; Wong et al., 1985
094D 165	Joh 4	94D.060	675,470	6,271,470	Cu, Au	disseminated py, cpy in diorite and diorite-hosted quartz stringers; mal along fractures	Leriche and Luckman, 1991b
094D 166	Joh 12	94D.060	675,870	6,275,550	Cu	py, cpy, mal along dry fractures within monzonite and adjacent Takla volcanics	Leriche and Luckman, 1991a
094D 167	Joh 2	94D.060	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
094D 168	Joh 1	94D.059	671,910	6,272,870	Au, Cu	quartz vein; lim, mal	Leriche and Luckman, 1991a
094D 169	Joh 3	94D.060	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
094D 170	Joh 9	94D.060	677,290	6,267,220	Au	quartz vein in shear zone in tonalite; py	Leriche and Luckman, 1991b
094D 171	Joh 11	94D.059	671,630	6,275,520	Au, Cu	hornfelsed volcanic rock	Leriche and Luckman, 1991a
094D 176	Cro 2	94D.060	678,720	6,262,500	Au, Ag, Cu	silicified shear zones with quartz stringers; py	Fox, 1991
094D 177	DBC	94D.050	683,170	6,260,370	Au, Ag, Cu	quartz veins, shear zones; py, cpy, mal (ga)	Grexton and Roberts, 1991
094D 178	F vein	94D.059	670,060	6,268,190	Au, Ag	quartz vein; py, ga, cpy, mal, az, lim	Pawliuk, 1985
094D 179	Joh 7	94D 060	677,110	6,269,940	Cu	py, cpy in quartz veins and as disseminations in diorite dikes and adjacent volcanics; mal along fractures	Gill, 1994b
094D 180	KC 1	94D 050	678,360	6,265,250	Au, Ag	quartz veins and shear zones; py, cpy, ga	Fox, 1982
094D 181	KP0274	94D.059	672,130	6,268,420	Au	quartz veins	Gill, 1996
094D 182	Pacific Sugar	94D.060	675,940	6,266,970	Cu, Au	magnetite-pyrite-chalcopyrite skarn	Gill, 1995
094D 183	UPC	94D.050	682,120	6,262,530	Au, Ag, Cu	quartz veins; py, cpy	Grexton and Roberts, 1991
094D 184	V3	94D.059	670,320	6,269,100	Au, Ag	quartz veins	von Rosen, 1986
094D 185	Klip	94D.060	676,140	6,266,600	Au, Ag	sheared quartz-pyrite-altered rock	Smit and Meyers, 1985
094D 186	04PSC-94	94D.070	672,371	6,284,896	Au, Ag, Cu	quartz vein; py, cpy, az	Schiarizza and Tan, 2005
094D 187	04PSC-174	94D.059	666,780	6,268,510	Au, Ag	quartz-pyrite alteration zone	Schiarizza and Tan, 2005
094D 188	04SEN-230	94D.050	683,756	6,265,313	Pb, Cu, Ag, Au	quartz veins; py, ga, cpy, mal	Schiarizza and Tan, 2005

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

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Map Base Information

1:50 000 base produced from TRIM 1:20 000 scale topographic database supplied by LandData B.C.
North American Datum (NAD) 83, Latitude/Longitude Projection, UTM Zone 9. Approximate mean magnetic declination (2005) between magnetic north and true north is 22.4° east, decreasing about 17' annually. Elevations in metres above sea level.

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