TASEKO LAKES (92 O) MAP – AREA

SEDIMENTARY AND VOLCANIC ROCKS

CENOZOIC

QUATERNARY

PLEISTOCENE AND RECENT

Qal — Till, gravel, sand, clay, and silt

TERTIARY

PLIOCENE AND/OR YOUNGER

Ps — greywacke, siltstone, pebble conglomerate

UPPER MIOCENE AND/OR PLIOCENE

CHILCOTIN GROUP

MPcv — Olivene basalt, andesite; minor relate tuff and breccia

MPcs — Buff to grey siltstone, diatomite, clay and silty sand, coarse reddish brown conglomerate; minor ash beds and lignite

OLIGOCENE AND (?) LOWER MIOCENE

OMv — Grey to brown, fine-grained to porphyritic and amygdaloidal andesite and basalt tuff, breccia, and flows; includes minor **Ev**

OMs — Friable buff greywacke and siltstone

EOCENE?, OLIGOCENE?

SHEBA GROUP

EOs — Buff, mauve, brown dacitic and rhyolitic tuffs, breccias and flows.

EOCENE AND YOUNGER (?), OLDER (?)

Ev — Rhyolitic and dacitic tuff, breccia, and flows; minor andesitic to basaltic rocks; may include minor **OMv**; includes small areas of **Es** along Fraser River

Es — Conglomerate, volcanic arenitic, minor siltstone, plant seams.

MESOZOIC

S.W. of YALAKOM FAULT	N.E. of YALAKOM FAULT	EAST of FRASER FAULT
CRETACEOUS UPPER CRETACEOUS (CENOMANIAN) KINGSVALE GROUP **uKKv** — Varicoloured andesitic,dacitic and basaltic pyroclastics ; minor flows and volcanic sediments **uKKs** — Interbedded siltstone,greywacke and conglomerate LOWER CRETACEOUS (APTIAN AND ALBIAN) TAYLOR CREEK GROUP **lKTc** — Dark grey to black shale and argillite, chert pebble conglomerate; minor quartzose sandstone **lKTcv** — Dark green to grey andesitic to basaltic flows,tuff and breccia LOWER CRETACEOUS (APTIAN AND ALBIAN) JACKASS MOUNTAIN GROUP **lKJM** — Buff to green greywacke,light grey shale,and pebble conglomerate; massive boulder conglomerate LOWER CRETACEOUS (NEOCOMIAN) **lKv** — Reddish to purplish andesitic breccia and tuff	CRETACEOUS UPPER CRETACEOUS (CENOMANIAN) KINGSVALE GROUP **uKKv** — Varicoloured andesitic,dacitic basaltic pyroclastics;minor flows and volcanic sediments **uKKs** — Interbedded siltstone,greywacke, conglomerate LOWER CRETACEOUS (BARREMIAN TO ALBIAN) JACKASS MOUNTAIN GROUP **lKJM** — Buff to green greywacke,grey shale and pebble conglomerate;massive boulder conglomerate	CRETACEOUS (?) KINGSVALE GROUP (?) **uKKs** — Grey to dark grey siltstone and greywacke
JURASSIC AND CRETACEOUS MIDDLE JURASSIC TO LOWER CRETACEOUS RELAY MOUNTAIN GROUP **lKRM** — (BERRIASIAN AND VALANGINIAN) Greenish grey to greenish grey siltstone,shale, greywacke;minor cobble conglomerate and limestone **uJRM** — (U. OXFORDIAN TO U. TITHONIAN) Dark grey to green greywacke,siltstone, shale and minor conglomerate **mJRM** — (CALLOVIAN AND L. OXFORDIAN) Dark grey shale and argillite;greywacke; grey-brown pebble conglomerate	JURASSIC MIDDLE (BAJOCIAN) AND (?) LOWER JURASSIC **mJv** — Green porphyritic andesite breccia,tuff and flows, minor argillaceous tuff	
TRIASSIC AND JURASSIC UPPER TRIASSIC TO MIDDLE JURASSIC TRAUGHTON GROUP **lmJT** — (SINEMURIAN TO MIDDLE BAJOCIAN) Dark grey to black shale and argillite,grey greywacke **uTr** — (NORIAN TO HETTANGIAN) Massive limestone,red conglomerate, limy greywacke,grit and shale		
TRIASSIC UPPER TRIASSIC (CARNIAN AND (?) NORIAN) CADWALLADER GROUP **uTKH** — HARLEY FORMATION Grey to black argillite;minor greywacke,limestone and volcanic rocks **uTKP** — PIONEER FORMATION Massive lime grained to porphyritic dark-green basaltic flows,minor tuffaceous sediments; dark argillite and argillite and siltstone MIDDLE TRIASSIC AND (?) OLDER BRIDGE RIVER GROUP **mTBR** — Interbedded chert and argillite, andesitic to basaltic flows and pyroclastics,and lenses of grey limestone	TRIASSIC UPPER TRIASSIC **uTc** — (NORIAN) Massive grey limestone;minor pebble conglomerate,shale **uTsv** — (CARNIAN AND/OR NORIAN) Interbedded shale,greywacke,andesitic to basaltic volcanics **uTv** — (CARNIAN AND/OR NORIAN) Dark grey andesitic to basaltic tuff and breccia,feldspathic flows,greywacke	TRIASSIC MIDDLE AND/OR LOWER TRIASSIC AND (?) LOWER PAVILION GROUP **TPv** — Tuff,greywacke,volcanic flows,chert argillite,limestone **TP** — Chert argillite;minor tuff,limestone, lithic sandstone,volcanic flows
		PERMIAN AND (?) OLDER CACHE CREEK GROUP **Pcc?** — Chert,argillite,shale,greywacke; minor limestone lenses
		UPPER PERMIAN (?) MARBLE CANYON FORMATION **uPCC** — Massive grey limestone;minor shale
		LOWER PERMIAN (?) **lPCC** — Interlayered chert and argillite,basic volcanic flows and tuff,limestone

PLUTONIC ROCKS

CENOZOIC

TERTIARY

EOCENE

Ef — Felsite,feldspar porphyry,biotite feldspar porphyry

Egd — Granodiorite;minor quartz diorite

MESOZOIC

CRETACEOUS

LATE CRETACEOUS

lKgd — Granodiorite;lesser quartz diorite and diorite

lKqd — Quartz diorite;lesser diorite

KqM — Quartz monzonite; minor granodiorite

JURASSIC

MIDDLE (?) JURASSIC

MJgd — Gneissic granodiorite,diorite and quartz diorite

JURASSIC AND/OR OLDER

Jgd — Granodiorite,diorite,inclusions of basic volcanic rocks

PALEOZOIC

TRIASSIC (?)

Tub — Peridotite,harzburgite,dunite,serpentinized peridotite

PERMIAN(?)

Pub — Peridotite

GEOLOGICAL CONTACT (defined,approximate,assumed)

BEDDING (inclined,vertical)

SYNCLINE

ANTICLINE

FAULTS (sense of movement not indicated)

FAULT (right lateral transcurrent defined,approximate)

FAULT (thrust or high-angle reverse)

SELECTED BIBLIOGRAPHY

Cairnes,C.E.
1943: Geology and Mineral Deposits of Tyaughton Lake Map-Area,British Columbia, Geol. Surv. Can.,Paper 43-15

Frebold,H. and Tipper,H.W.
1967: Middle Callovian sedimentary rocks and guide ammonites from southwestern British Columbia,Geol. Surv. Can.,Paper 67-21

Jeletzky,J.A. and Tipper,H.W.
1968: Upper Jurassic and Cretaceous Rocks of Taseko Lakes map-area and their bearing on the geological history of Southwestern British Columbia,Geol. Surv. Can., Paper 67-54

Leech,G.B.
1953: Geology and Mineral Deposits of the Shulaps Range; British Columbia Dept. of Mines; Bull. No. 32

Tipper,H.W.
1963: Geology Taseko Lakes, British Columbia, Geol. Surv. Can., Map 29-1963

Tipper, H.W.
1969: Mesozoic and Cenozoic geology of the northeast part of Mt. Waddington Quest District, British Columbia, Geol. Surv. Can., map-area (92 N) Paper 68-13

Trettin, H.P.
1961: Geology of the Fraser River Valley between Lillooet and Big Bar Creek; Brit. Columbia Dept. of Mines and Petroleum Resources, Bull. No. 44

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SCALE 1:125,000

4 2 0 2 4 6 8 MILES

5 0 5 10 KILOMETRES

O.F. 534

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