

CF 89-25 1 of 2

GEOLOGY OF THE TASEKO LAKES AREA

NTS 920/3,4,5,6.

GRAEME MCLAREN AND JONATHAN ROUSE

SCALE 1:50 000



LEGEND

LAYERED ROCKS

QUATERNARY

Q UNCONSOLIDATED GLACIAL TILL AND ALLUVIUM

UPPER CRETACEOUS

POWELL CREEK FORMATION

UKpcb BEDDED LAHARIC ANDESITIC BRECCIA AND EPICLASTIC SEDIMENTS.

UKpc ANDESITIC BRECCIA, LAPILLI TUFF, CRYSTAL TUFF AND ASH TUFF; MINOR ANDESITIC TO BASALTIC FLOWS.

SILVER QUICK FORMATION

UKsq PEBBLE TO COBBLE POLYMYCT CONGLOMERATES, SANDSTONES AND ARGILLITE; MINOR ANDESITIC FLOWS.

LOWER CRETACEOUS

TAYLOR CREEK GROUP

LKtcv RHYOLITIC TO BASALTIC TUFFS AND FLOWS, BLACK ARGILLITE, SILTSTONE AND SANDSTONE.

LKtca ARGILLITE, SILTSTONE, SANDSTONE, MINOR TUFFS.

RELAY MOUNTAIN GROUP

LKrm BLACK ARGILLITE, SILTSTONE, SANDSTONE, MINOR ANDESITIC TUFFS AND FLOWS.

LKv PURPLE ANDESITIC PYROCLASTICS AND BRECCIAS; MINOR FLOWS.

INTRUSIVE ROCKS

AGES UNCERTAIN

A HORNBLENDE DIORITE

B COAST PLUTONIC COMPLEX: GRANODIORITE, QUARTZ DIORITE.

C FELSITES: FELDSPAR AND BIOTITE FELDSPAR PORPHYRY

D PLAGIOCLASE HORNBLENDE PORPHYRY

E BEECE CREEK PLUTON: QUARTZ MONZONITE TO GRANODIORITE

F QUARTZ EYE FELSITE DYKES AND STOCKS

SYMBOLS

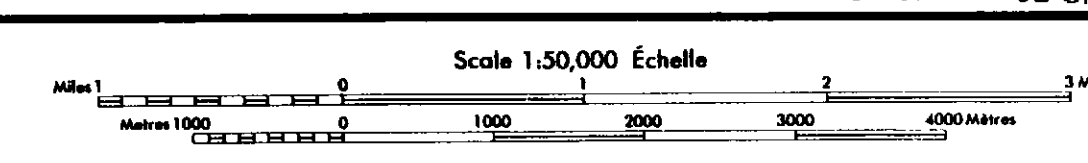
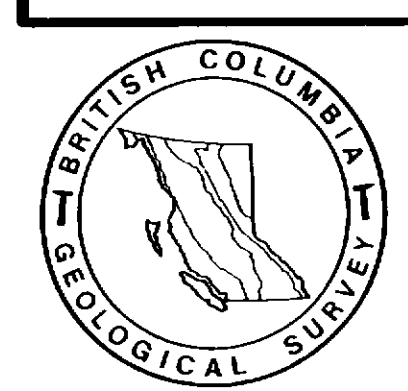
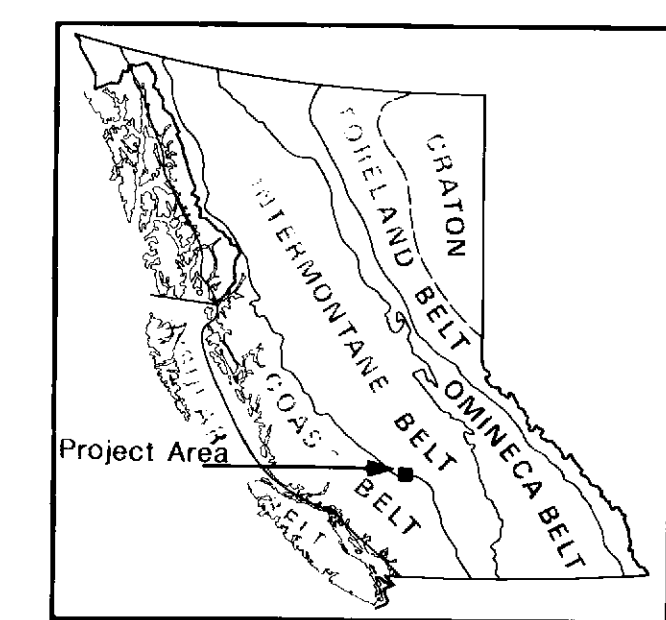
- Geological boundaries (defined, approximate, assumed)
Unconformity (defined, assumed)
Bedding (horizontal, inclined, vertical)
Bedding with tops observed (inclined, vertical)
Dyke
Syncline axis
Faults (defined, approximate)

SELECTED REFERENCES

Glover, J.K. and Schiarizza, P. (1987): Geology and Mineral Potential of the Warner Pass Map Sheet (920/3); B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork 1986, Paper 1987-1, pages 157-169.
Jeletzky, J.A. and Tipper, H.W. (1988): Upper Jurassic and Cretaceous Rocks of Taseko Lakes Map Area and their Bearing on the Geological History of Southwestern British Columbia, Geological Survey of Canada, Paper 67-54.
McLaren, G.P. (1986): Geology and Mineral Potential of the Chilko-Taseko Lakes Area, B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork 1985, Paper 1986-1, pages 265-274.
McLaren, G.P. and Rouse, J.N. (1989): Geology and Mineral Occurrences in the Vicinity of Taseko Lakes (920/3,4,5,6); B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork 1988, Paper 1989-1, pages 153-158.
(*this paper describes the fieldwork illustrated on this Open File map)
Tipper, H.W. (1978): Taseko Lakes Map Area (920); Geological Survey of Canada, Open File 534.

THIS MAP INCLUDES INFORMATION FROM:

Glover, J.K. (1987): Geology of the Warner Pass Area (920/3); B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1987/3.
McLaren, G.P. (1987): Geology and Lithochemistry of the Chilko-Taseko Lakes Area (920/4,5; 921/13; 92K/16; 92N/1); B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1987-12.



Province of British Columbia
MINERAL RESOURCES DIVISION
GEOLOGICAL SURVEY BRANCH
OPEN FILE MAP 1989-25 (SHEET 2 OF 2)

GEOCHEMISTRY OF THE TASEKO LAKES AREA

NTS 92O/3,4,5,6

GRAEME MCLAREN AND JONATHAN ROUSE

SCALE 1:50 000

SYMBOLS

- 1988 Stream Sediment Sample Locations
- 1979 Regional Geochemical Survey (stream sediment location)
- 1988 Lithochemical Sample Locations
- Mineral Occurrences

1988 Lithochemical Sample Data

SAMPLE NUMBER	AU	AG	CU	PB	ZN	CO	NI	MO	V	AS	Sb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RM-401	2	<5	41	17	9	25	31	<7	240	61	2
RM-402	2	<5	21	5	60	18	32	<7	182	15	<5
RM-403	1	<5	23	13	80	43	25	<7	<10	5	<5
RM-404	129	22	26	488	120	23	3	<7	472	850	60
RM-405	2	<5	2	150	8	13	2	<7	18	46	2
RM-406	1	<5	73	9	88	24	15	<7	17	7	5
RM-407	2	<5	2	150	8	13	2	<7	18	46	2
RM-408	18	<5	11	50	98	28	2	<7	15	816	4
RM-409	2	<5	40	7	25	42	12	<7	15	25	6
RM-410	2	<5	90	9	69	22	19	<7	17	8	1
RM-411	2	<5	40	7	25	42	12	<7	15	25	6
RM-412	24	<5	42	9	16	47	6	<7	17	7	<5
RM-413	13	2	0	2	52	12	39	5	100	20	7
RM-414	2	<5	7	9	15	48	5	10	16	1	<5
RM-415	2	<5	38	9	43	25	20	<7	20	11	<5
RM-416	2	<5	17	9	24	31	22	<7	147	5	<5
RM-417	17	6	244	15	26	42	49	77	49	22	9
RM-418	2	<5	17	9	15	48	5	10	16	1	<5
RM-419	2	<5	39	4	31	36	33	<7	157	24	3
RM-420	2	<5	174	9	68	23	7	10	<5	<5	<5
RM-421	11	<5	50	30	190	28	14	<7	30	<5	<5
RM-422	7440	16	144	230	1998	19	14	<7	100	9	424
RM-423	23480	16	144	230	1998	19	14	<7	100	9	424
RM-424	6	<5	151	22	150	25	41	50	186	9	<5
RM-425	79	<5	480	9	47	27	10	<7	<10	28	8
RM-426	6	<5	132	32	39	28	41	50	186	9	<5
RM-427	6	<5	297	5	18	18	15	27	186	16	<5
RM-428	4	<5	598	8	35	30	42	<7	200	15	<5
RM-429	5	<5	50	30	72	20	50	<7	80	6	<5
RM-430	1	<5	340	10	21	23	7	10	<5	<5	<5
RM-431	5	<5	310	30	16	25	<7	52	<5	<5	<5
RM-432	5	<5	17	20	31	17	9	<7	190	21	<5
RM-433	5	<5	74	15	56	25	34	<7	10	10	<5
RM-434	8	<5	82	22	44	26	5	<7	<10	68	11
RM-435	9	<5	45	28	42	16	4	<7	20	93	26
RM-436	9	<5	410	22	18	28	4	50	12	60	10
RM-437	1	<5	21	33	23	32	10	73	356	59	<5
RM-438	1	<5	21	33	45	13	2	<7	193	8	9
RM-439	1	<5	116	10	56	22	8	<7	20	21	5

1988 Stream Sediment Data

SAMPLE NUMBER	AU	AG	CU	PB	ZN	CO	NI	MO	V	AS	Sb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
S01	3	0.1	6.4	0.8	0.3	1	15	7	51	20	11
S02	1	0.1	6.6	0.6	0.4	1	24	9	72	25	11
S03	3	0.2	5.4	0.9	0.4	1	21	6	49	15	6
S04	2	0.2	8.1	0.8	0.2	1	17	11	80	21	12
S05	2	0.1	11.4	0.7	0.3	1	42	12	97	32	14
S06	2	0.1	9.6	0.8	0.3	1	29	9	65	24	11
S07	2	0.1	12.1	1	0.6	1	24	7	58	20	9
S08	1	0.2	9.1	0.7	0.5	1	56	8	75	23	10
S09	1	0.1	6.1	0.3	0.3	2	28	9	40	7	7
S10	1	0.2	5.8	0.8	0.10	1	48	9	45	32	57
S11	2	1.2	5.7	0.3	0.7	4	64	14	113	12	2
S12	4	0.2	30.4	1.6	1	8	206	13	75	7	12
S13	1	0.1	6.4	0.3	0.4	1	130	16	131	38	24
S14	10	0.3	47.8	1.2	1.1	3	146	20	143	83	39
S15	1	0.1	3	0.4	0.4	1	31	6	66	22	9
S16	1	0.1	64.1	0.9	0.4	1	28	3	51	10	11
S17	1	0.1	28.9	1.4	0.6	2	22	2	39	14	5
S18	6	0.3	38.8	0.9	0.6	2	82	24	135	56	22
S19	1	0.5	28	2.1	0.7	1	46	5	60	41	10
S20	1	0.1	2.9	0.4	0.3	1	44	4	74	33	3
S21	4	0.1	62.7	0.9	0.4	1	21	7	47	15	9
S22	31	0.2	26	0	0.5	1	674	18	210	104	70
S23	5	0.1	17.8	0.6	0.2	1	31	8	58	18	1
S24	5	0.1	7.2	0.5	0.4	1	47	10	78	24	11
S25	3	0.2	16.2	0.5	0.4	1	65	20	141	40	20
S26	10	0.1	10.8	0.5	0.4	1	10	6	10	6	6
S27	11	0.2	9	0.5	0.5	1	40	9	93	28	12
S28	1	0.1	2.9	0.7	0.4	1	46	94	28	12	625
S29	1	0.2	12.1	0.5	0.1	1	25	6	49	18	7
S30	1	0.1	4.5	0.3	0.1	1	79	7	58	23	10
S31	1	0.2	2.6	0.6	0.2	1	30	5	39	12	7

ANALYTICAL METHODS:
 Au, Mo, Cu, Pb, Zn, Ni, Co, Mn, Fe, V, Ba - ICP analysis on a 0.5 gram sample; the acid leach used is partial for Mn, Fe and Ba.
 Ag, solid leach and atomic absorption analysis from a 10 gram sample.
 Hg: flameless atomic absorption analysis.
 As, Sb, Bi: hydride generation ICP analysis.

1979 Regional Geochemical Survey Data

Sample	ZN	CU	PB	ZN	CO	AG	AS	MO	V	NI	MO	V	AS	Sb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
791120	28	19	2	9	4	0.1	1.0	1	1	120	792200	49	19	1
791130	22	13	2	7	3	1.4	4.6	8	1	1	792203	66	124	7
791131	24	25	1	10	6	0.1	2.5	1	1	80	792204	58	28	2
791132	49	39	5	27	22	0.2	7.0	1	1	80	792205	72	47	1
791133	34	19	1	7	0.1	0.5	1	1	1	70	792206	12	8	2
791136	60	22	4	17	13	0.1	10.0	1	1	220	792207	12	15	1
791137	62	22	5	17	13	0.1	10.0	1	1	220	792208	72	34	6
791138	44	23	2	15	11	0.1	8.0	1	1	150	792209	30	1	3
791139	30	9	1	11	8	0.1	2.0	1	1	90	792210	12	30	1
791140	45	18	1	18	15	0.1	5.0	1	1	250	792211	50	17	5
791141	48	15	2	16	11	0.1	5.0	1	1	250	792212	62	38	5
791143	76	50	8	7	2	26.0	2	4	160	792213	53	14	16	
791144	68	1100	3	9	7	0.2	26.0	2	4	160	792214	66	27	2
791145	91	85	8	9	1	0.6	6.0	1	1	130	792215	59	2	14
791146	102	91	6	9	0.8	28.0	3	2	90	792216	67	10	12	
791147	80	89	4	10	9	0.2	47.0	4	9	100	792217	96	76	3
791148	33	3	12	16	0.1	12.0	3	2	270	792218	47	10	12	
791149	64	43	3	21	12	0.1	5.0	1	1	210	792219	65	13	32
791150	64	156	2	34	32	0.1	12.0	1	1	260	792220	94	65	13
791151	45	42	4	29	16	0.1	10.0	1	1	360	792221	61	38	9
791152	78	31	2	33	15	0.1	6.5	1	1	380	792222	24	9	1
791153	64	28	1	24	11	0.1	5.5	1	1	190	792223	18	38	1
791154	45	22	3	13	7	0.1	10.0	1	1	90	792224	15	19	1
791155	44	20	2	15	4	0.1	6.0	1	1	70	792225	12	15	1
791156	59	28	1	17	7	0.2	2.0	1	1	70	792226	87	42	23
791157	66	32	1	17	10	0.1	1.0	1	1	60	792227	36	29	2
791158	72	31	2	34	15	0.1	4.5	1	1	90	792228	18	12	1
791159	100	49	3	39	18	0.1	8.0	2	1	80	792229	16	11	4
791160	72	38	4	14	10	0.1	22.0	1	1	80	792230	48	39	9
791161	90	49	5	29	16	0.1	14.0	2	1	80	792231	19	1	5
791162	74	36	6	28	14	0.1	10.0	1	1	80	792232	17	14	2
791163	48	32	3	19	7	0.1	27.0	1	1	80	792233	12	15	1
791164	40	20	4	9	5	0.1	15.0	1	1	60	792234	16	19	1
791165	42	30	7	17	6	0.1	14.0	1	1	60	792235	18	19	1
791166	32	15	4	8	4	0.1	6.0	1	1	70	792236	59	33	2
791167	72	81	8	18	12	0.1	6.0	1	1	80	792237	9	21	1
791168	77	86	8	18	13	0.2	15.0	4	1	80	792238	6	27	1
791169	68	39	14	14	9	0.1	28.0	1						