

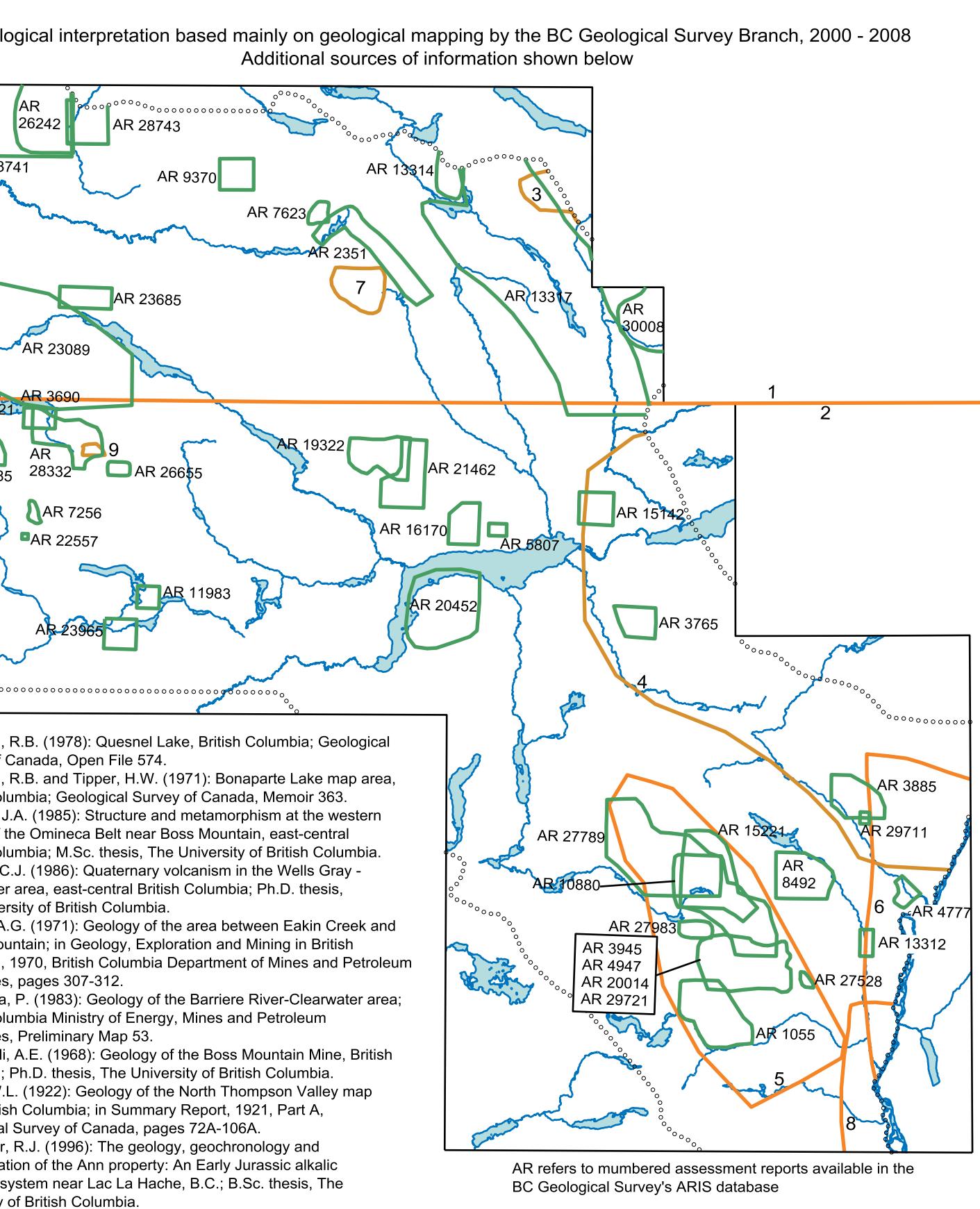
Bedrock geology between Thuya and Woodjam creeks, south-central British Columbia  
NTS 92P/7, 8, 9, 10, 14, 15, 16; 93A/2, 3, 6

### Sheet 1: Geology

Geology by: P. Schiarizza, S. Israel, S. Heffernan, A. Boulton, J. Bligh, K. Bell, S. Bayliss, J. Macauley, B. Bluemel, J. Zuber, R.M. Friedman, M.J. Orchard and T.P. Poulton

Compilation and digital cartography by P. Schiarizza

Scale 1:100 000  
0 10 kilometres



AR refers to numbered assessment reports available in the BC Geological Survey's ARIS database



British Columbia Geological Survey  
Open File 2013-05

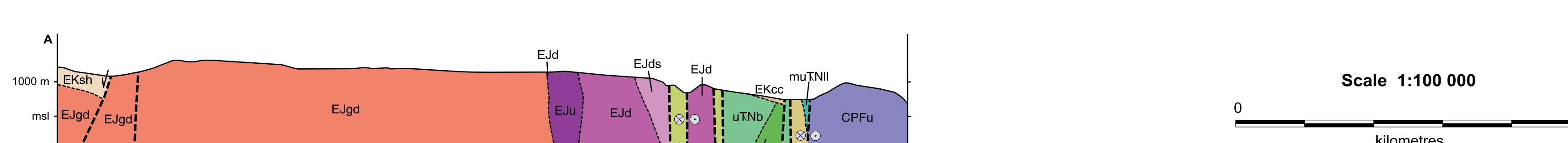
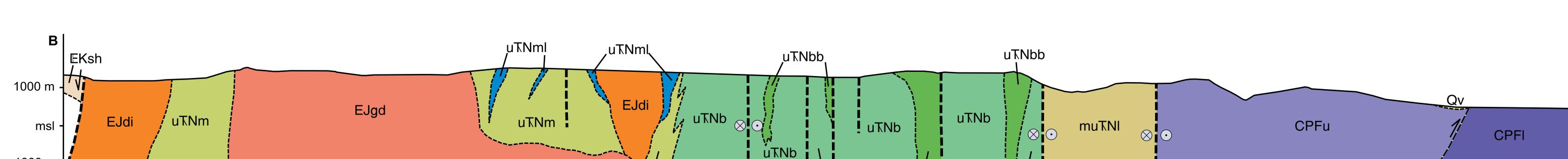
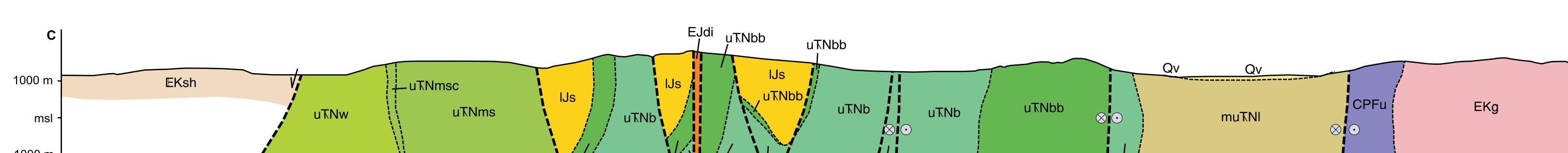
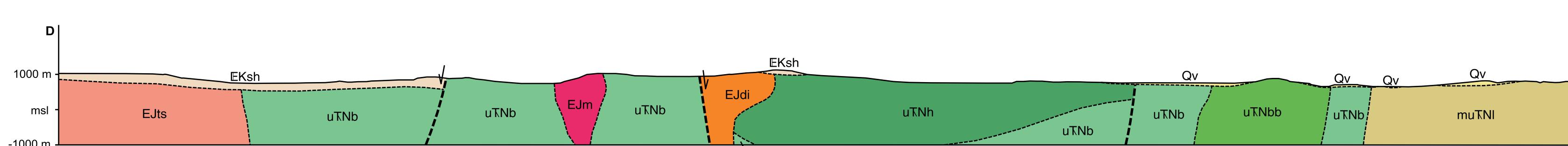
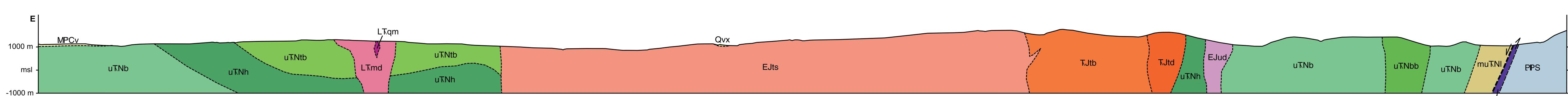
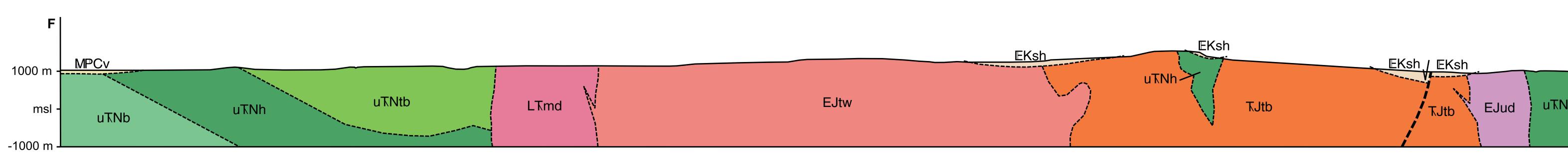
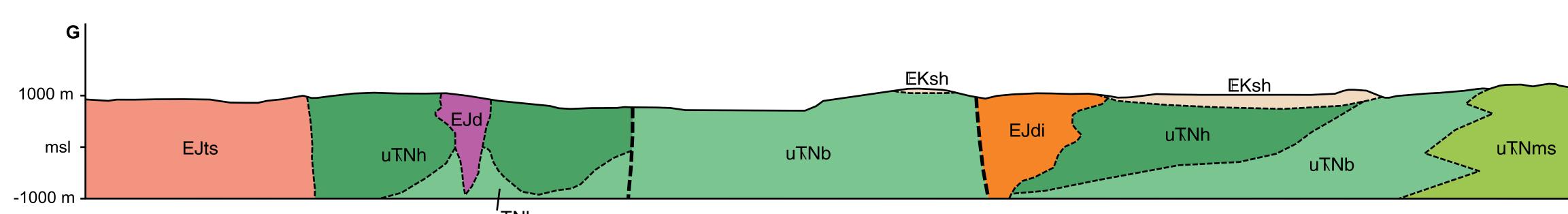
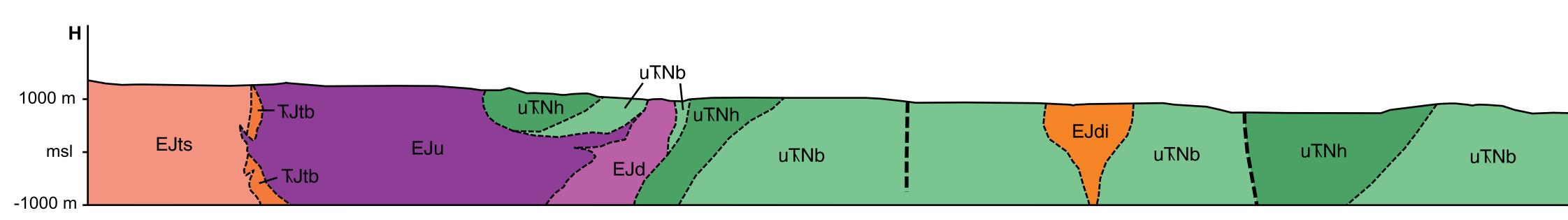
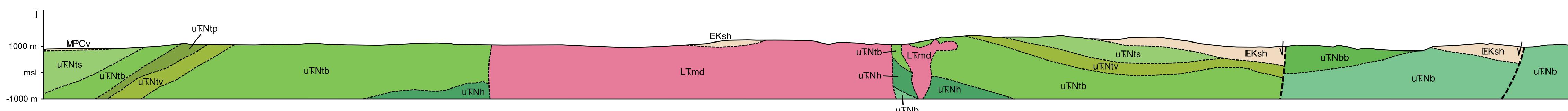


Bedrock geology between Thuya and Woodjam  
creeks, south-central British Columbia  
NTS 92P/7, 8, 9, 10, 14, 15, 16; 93A/2, 3, 6

Sheet 2: Cross Sections

Geology by: P. Schiarizza, S. Israel, S. Heffernan, A. Boulton, J. Bligh,  
K. Bell, S. Bayliss, J. Macauley, B. Bluemel, J. Zuber,  
R.M. Friedman, M.J. Orchard and T.P. Poulton

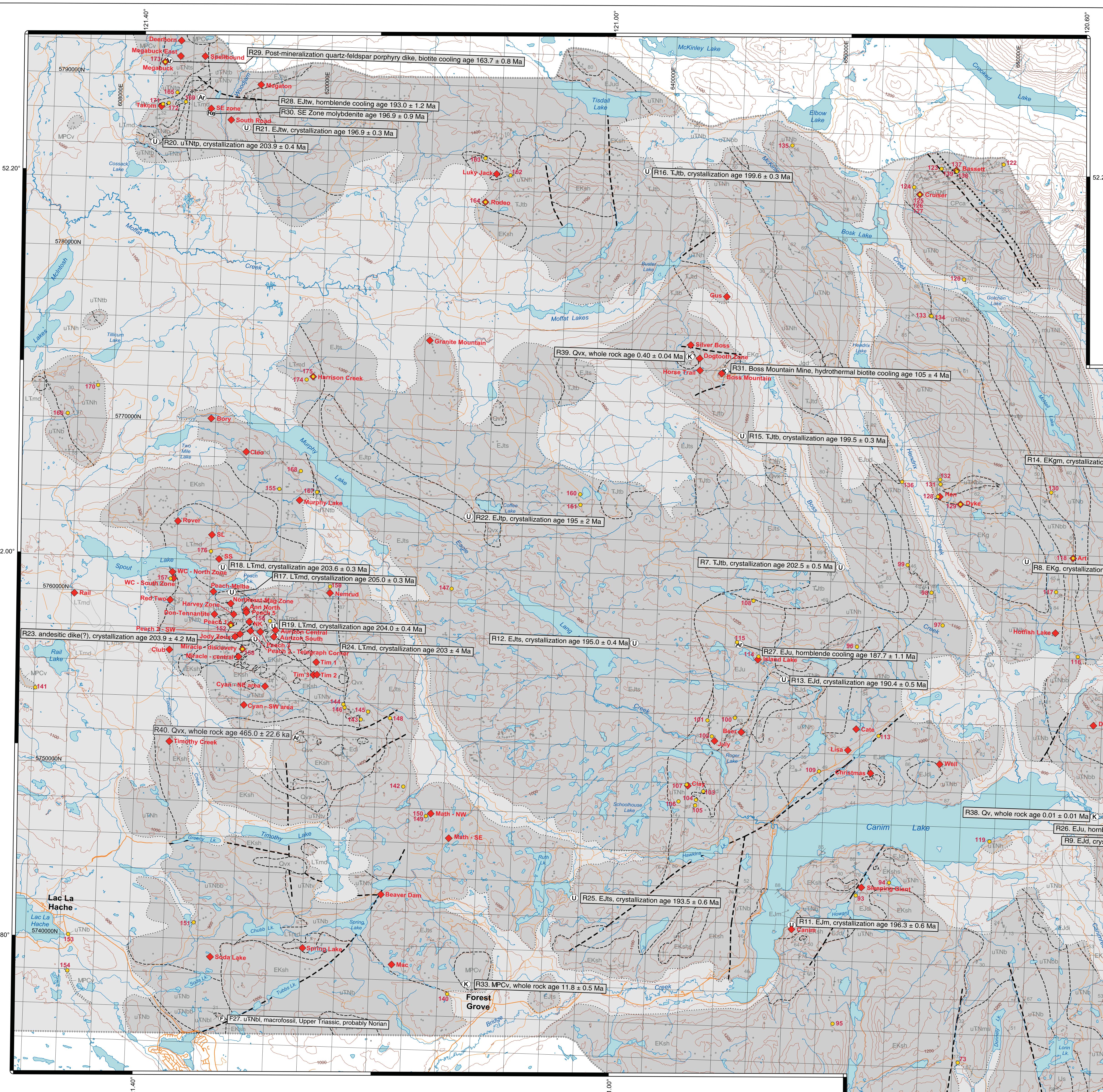
Schematic vertical cross sections prepared by P. Schiarizza



See sheet 1 for legend and for locations of section lines

Scale 1:100 000  
0 10  
kilometres

Recommended citation:  
Schiarizza, P., Israel, S., Heffernan, S., Boulton, A., Bligh, J., Bell, K., Bayliss, S., Macauley, J., Bluemel, B., Zuber, J., Friedman, R.M., Orchard, M.J., and Poulton, T.P., 2013. Bedrock geology between Thuya and Woodjam creeks, south-central British Columbia, NTS 92P/7, 8, 9, 10, 14, 15, 16; 93A/2, 3, 6. British Columbia Ministry of Energy, Mines and Natural Gas, British Columbia Geological Survey Open File 2013-05, 1:100 000-scale.



Bedrock geology between Thuya and Woodjam creeks, south-central British Columbia  
NTS 92P/7, 8, 9, 10, 14, 15, 16; 93A/2, 3, 6

Sheet 3: Mineral occurrences, geochemistry, fossil dates, isotopic dates

Isotopic dating by: R.M. Friedman and T. Ulrich  
Fossil identifications by: M.J. Orchard, T.P. Poulton,  
P.L. Smith, H.W. Tipper, E.W. Bamber and L. Rui

Compilation and digital cartography by P. Schiarizza

Scale 1:100 000  
0 10 kilometres

Mineral occurrences

Bogg ♦ Mineral occurrence with name; see Sheet 4, Table 1, for details

Geochemistry

47 ♦ Geochemical sample with Map ID; see Sheet 4, Table 2, for details

Fossils ages

F4: uTNm, conodont, Late Triassic, Camian (●) Fossil locality with Map ID, map unit, fossil type and age; see Sheet 4, Table 4, for details

R26: EJU, hornblende cooling age 183.0 ± 1.1 Ma (●) Ar-Ar sample locality with Map ID, map unit and interpreted age; see Sheet 4, Table 4, for details

R30: SE Zone molybdenite age 196.9 ± 0.9 Ma (●) Re-Os sample locality with Map ID, map unit and interpreted age; see Sheet 4, Table 4, for details

R32: EKg, magmatic biotite cooling age 102 ± 5 Ma (●) K-Ar sample locality with Map ID, map unit and interpreted age; see Sheet 4, Table 4, for details

Isotopic ages

R10: EKg, crystallization age 108.3 ± 0.6 Ma (●) U-Pb sample locality with Map ID, map unit and interpreted age; see Sheet 4, Table 4, for details

R26: EJU, hornblende cooling age 183.0 ± 1.1 Ma (●) Ar-Ar sample locality with Map ID, map unit and interpreted age; see Sheet 4, Table 4, for details

R30: SE Zone molybdenite age 196.9 ± 0.9 Ma (●) Re-Os sample locality with Map ID, map unit and interpreted age; see Sheet 4, Table 4, for details

R32: EKg, magmatic biotite cooling age 102 ± 5 Ma (●) K-Ar sample locality with Map ID, map unit and interpreted age; see Sheet 4, Table 4, for details

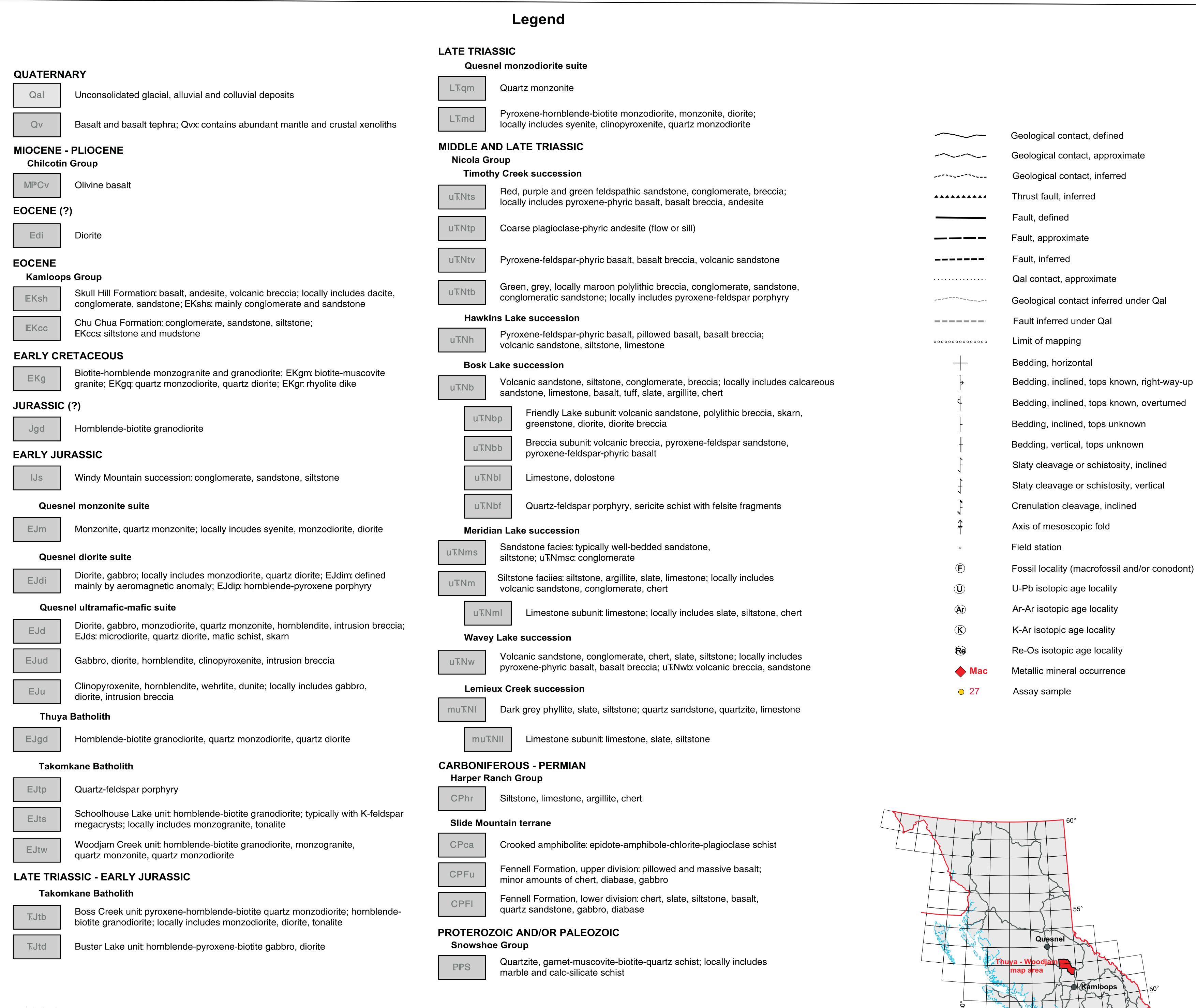
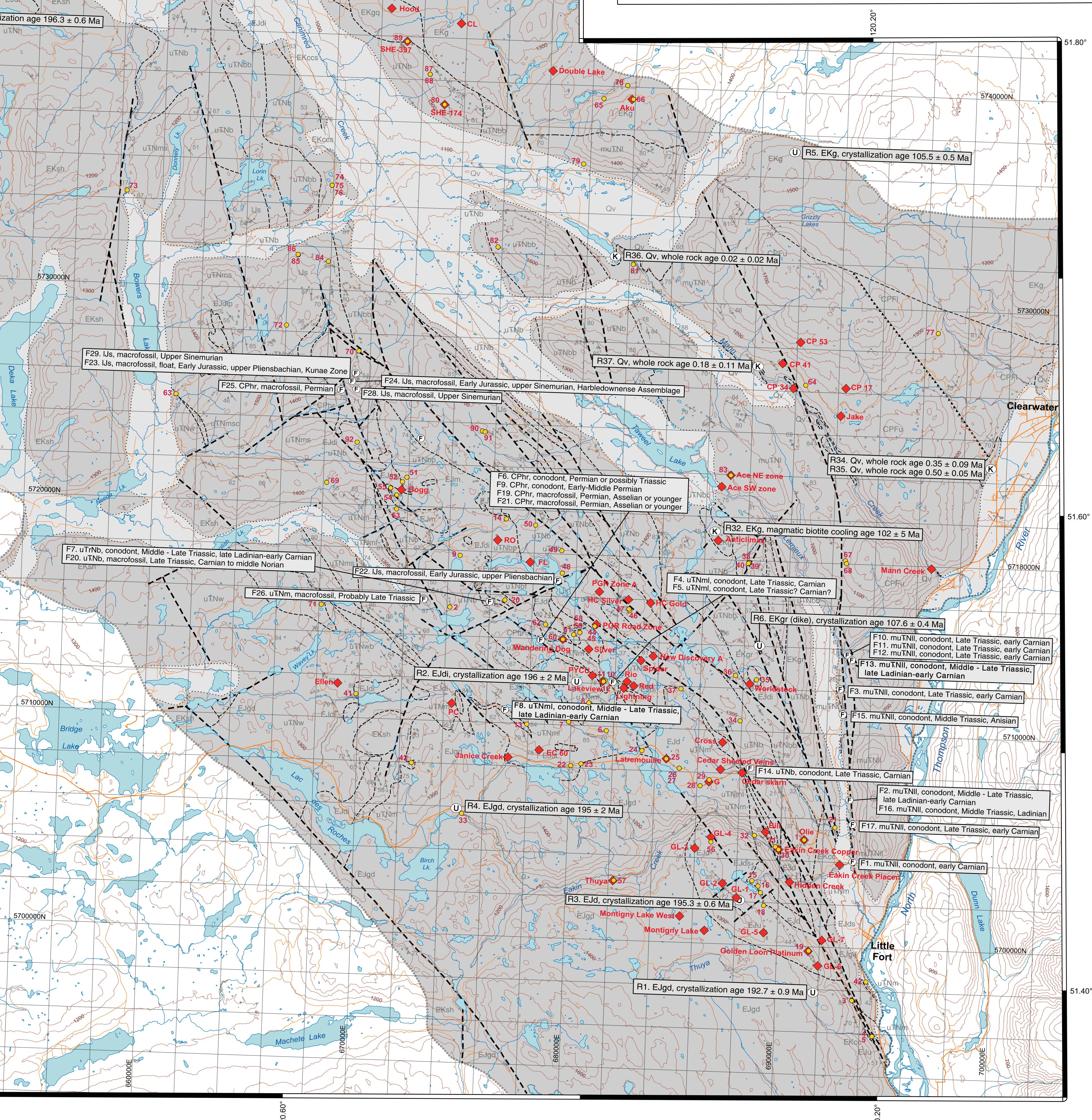


Table 2: Geochemistry

Map ID	Sample	Easting	Northing	GSC Loc No.	Unit	Mo	Cu	Pb	Zn	Ag	In	Co	Mn	Fe	As	U	Au	Tl	Co	Sb	B	Cr	Mg	Ba	B	I	W	S	Hg	Au	Pb	Pd	
						(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)		
1	OPSPC-14-2	691117	5705000	d2v en vein, py, mal, cpy, ga	1.85	1826.08	6697.07	8.3	15104.5	5.6	2.1	113	0.74	118.8	< 1	571.4	< 1	0.13	0.24	2.78	0.14	24.5	1.6	29	1	0.007	0.03	7.6	0.01	33	704	< 2	4
2	OPSPC-40	674134	5719340	basalt, py	1.91	124.06	25.16	7.7	117.11	11.2	22.8	1257	5.25	2.4	0.5	4.6	2.1	0.12	0.68	3.08	0.18	17.7	1.98	123	0	0.007	0.05	0.7	1.84	18	4	< 2	3
3	OPSPC-34	672504	5705000	dtz-carbonate rock, py	1.93	11.25	12.35	1.1	124.12	1.1	2.1	124.12	5.25	0.1	0.1	1.1	0.1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
4	OPSPC-88	694414	5695900	dtz-carbonate rock	11.79	35.61	35.99	31.4	175	29.7	6.2	593	2.59	47.2	0.6	4.3	0.8	0.68	4.9	0.62	6.61	38.5	2.2	73	2	0.008	0.12	0.5	0.47	92	6	10	6
5	OPSPC-104	681618	5707979	skarn, lim	3.2	23.07	2.23	51.6	47	13.2	6.8	1235	4.83	81.6	2	1.8	0.8	0.19	1.37	0.05	5.79	71.4	0.32	132.7	45	0.005	0.05	0.8	0.08	7	2	< 2	4
6	OPSPC-109	679889	5701513	py-altered rock	2.19	117.7	1.63	36.4	340	32.7	16.0	258	2.69	38.6	0.3	0.4	0.09	1.07	0.09	4.3	1.18	187.4	2	0.079	0.24	0.8	0.05	7	3	7	7		
7	OPSPC-109	679889	5701513	py-altered rock	1.93	10.99	7.98	1.1	124.12	1.1	2.1	124.12	5.25	0.1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
8	OPSPC-109	679889	5701513	skarn, lim	3.2	23.07	2.23	51.6	47	13.2	6.8	1235	4.83	81.6	2	1.8	0.8	0.19	1.37	0.05	5.79	71.4	0.32	132.7	45	0.005	0.05	0.8	0.08	7	2	< 2	4
9	OPSPC-109	679889	5701513	dtz-carbonate rock, py	1.93	10.99	7.98	1.1	124.12	1.1	2.1	124.12	5.25	0.1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
10	OPSPC-109	679889	5701513	dtz-carbonate rock, py	1.93	10.99	7.98	1.1	124.12	1.1	2.1	124.12	5.25	0.1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
11	OPSPC-109	679889	5701513	skarn, lim	3.2	23.07	2.23	51.6	47	13.2	6.8	1235	4.83	81.6	2	1.8	0.8	0.19	1.37	0.05	5.79	71.4	0.32	132.7	45	0.005	0.05	0.8	0.08	7	2	< 2	4
12	OPSPC-109	679889	5701513	dtz-carbonate rock, py	1.93	10.99	7.98	1.1	124.12	1.1	2.1	124.12	5.25	0.1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
13	OPSPC-109	679889	5701513	dtz-carbonate rock, py	1.93	10.99	7.98	1.1	124.12	1.1	2.1	124.12	5.25	0.1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
14	OPSPC-253	676037	5719061	chalcocite-gossan, lim, py, cov, bon	90.91	96.88	21.78	55.8	567	23.8	12.5	902	3.68	250.8	0.6	0.67	0.8	1.48	0.22	32.3	1.38	156.4	1	0.008	0.15	8	1.54	68	5	4			
15	OPSPC-253	676037	5719061	chalcocite-gossan, lim, py, cov, bon	90.91	96.88	21.78	55.8	567	23.8	12.5	902	3.68	250.8	0.6	0.67	0.8	1.48	0.22	32.3	1.38	156.4	1	0.008	0.15	8	1.54	68	5	4			
16	OPSPC-337	689053	5702677	dtz-carbonate rock, py	13.41	22.94	2.98	14.0	13.9	2.1	1.9	14.0	2.1	1.9	0.8	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07		
17	OPSPC-342	689053	5702677	dtz-carbonate rock, py	13.41	22.94	2.98	14.0	13.9	2.1	1.9	14.0	2.1	1.9	0.8	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07			
18	OPSPC-342	689053	5702677	dtz-carbonate rock, py	2.51	97.64	1.53	59	62	61	104.8	68.6	7.4	2	0.7	1.0	1.5	0.25	0.27	0.03	2.74	58.5	2.53	89.8	2	0.026	0.55	0.9	2.82	13	11	8	
19	OPSPC-342	689053	5702677	dtz-carbonate rock, py	2.51	97.64	1.53	59	62	61	104.8	68.6	7.4	2	0.7	1.0	1.5	0.25	0.27	0.03	2.74	58.5	2.53	89.8	2	0.026	0.55	0.9	2.82	13	11	8	
20	OPSPC-342	689053	5702677	dtz-carbonate rock, py	2.51	97.64	1.53	59	62	61	104.8	68.6	7.4	2	0.7	1.0	1.5	0.25	0.27	0.03	2.74	58.5	2.53	89.8	2	0.026	0.55	0.9	2.82	13	11	8	
21	OPSPC-342	689053	5702677	dtz-carbonate rock, py	2.51	97.64	1.53	59	62	61	104.8	68.6	7.4	2	0.7	1.0	1.5	0.25	0.27	0.03	2.74	58.5	2.53	89.8	2	0.026	0.55	0.9	2.82	13	11	8	
22	OPSPC-342	689053	5702677	dtz-carbonate rock, py	2.51	97.64	1.53	59	62	61	104.8	68.6	7.4	2	0.7	1.0	1.5	0.25	0.27	0.03	2.74	58.5	2.53	89.8	2	0.026	0.55	0.9	2.82	13	11	8	
23	OPSPC-342	689053	57																														