

DESCRIPTIONS OF MINERAL OCCURRENCES FOR THE CRESTON MAP AREA (82F/02)
(To accompany Open File 1995-15)

Name(s)	MINFILE	UTM (Zone 11)	Description	References
Topaz	82FSE004	5443568 N 517260 E	Cu, Pb, Zn, Ni, Sn, Ag showing. Galena, sphalerite, and cassiterite in a quartz vein. Chalcopyrite and pyrrhotite disseminated in a diorite sill. Host rock is Middle Proterozoic Aldridge Formation metasediments	
Wilds Creek, Leg, Liz B	82FSE005	5450300 N 531321 E	Zn, Pb showings. Pyrite, sphalerite, and galena in fractures and as stratabound layers within Upper Purcell Supergroup dolomite and quartzite. Baritic carbonate horizons with abundant sphalerite mineralization.	Brown and Klewchuk (1994)
Alice (L.4104), Otto Silver, St. Patrick, Alice Broughton	82FSE007	5441990 N 535989 E	Pb, Ag, Zn, Cu, Au past producer. Veins and lenses of galena in strongly sheared and faulted Middle Proterozoic Aldridge Formation argillaceous quartzite. Production (1900-1952) 6900 t yielding 509 t Pb, 538.5 kg Ag, and 472 kg Zn.	
Bayonne	82FSE030	5444468 N 503645 E	Pb, Zn, Ag, Au, Cd past producer. Pyrite, galena, sphalerite, chalcopyrite, tetrahedrite, with minor free gold, hessite, and petzite in quartz vein. The middle Jurassic Mine Stock, biotite-hornblende-epidote granodiorite, hosts the vein. Production (1935-1984) 81,700 t yielding 42.75 t Pb, 23.3 t Zn, 3.75 t Ag, and 1.3 t Au.	Mill (1962)
Echo	82FSE031	5443727 N 503646 E	Pb, Au showing hosted in middle Jurassic Mine Stock.	Mill (1962)
Spokane	82FSE032	5447617 N 500485 E	Pb, Zn, Ag, Au past producer. Pyrite, galena, sphalerite, and chalcopyrite in vein of quartz and sheared or altered granodiorite of the middle Jurassic Wall Stock. Vein hosted in the middle Jurassic Wall Stock. Production (1915-1956) 1700 t yielding 304 t Pb, 12.9 t Zn, 571 kg Ag, and 29.6 kg Au.	
Montana (L.10778)	82FSE033	5443728 N 504983 E	Pb, Zn, Ag, Au, Cu showing. Quartz vein with galena and sphalerite in large irregular masses containing blebs and grains of pyrite, chalcopyrite, and tetrahedrite. Sheared granodiorite (Mine Stock) and quartzite host rock.	Sargent (1937)
Summit Bell (L.10777), Maggie Aikens (L.10776), Michigan (L.10775)	82FSE034	5445027 N 506561 E	Au, Pb showing. Pyrite, free gold, and possibly some galena within two quartz veins. Sheared granodiorite (Mine Stock) host rock, altered and iron-oxide-stained in the vicinity of the vein.	
Virginia (L.5962)	82FSE035	5445950 N 503158 E	Ag, Au past producer hosted in the middle Jurassic Mine Stock. Production (1936, 1938) 19 t yielding 591 g Ag and 373 g Au.	Sargent (1937)
Lost Mine, Copper Ridge	82FSE048	5448927 N 512021 E	Cu showing. Chalcopyrite and calcite.	
North Wind	82FSE049	5448729 N 502671 E	Pb, Zn showing. Disseminated galena, pyrite, and sphalerite within well-defined quartz-filled fissure veins. Granodiorite (Wall Stock) host rock.	
King	82FSE050	5440317 N 535027 E	Pb, Ag, Cu past producer. Local concentrations of galena and pyrite with minor chalcopyrite in a quartz vein. Low-grade ore in an irregular quartz vein within an amphibolite sill. Host rock is Middle Proterozoic Aldridge Formation sediments. Production (1957) 196 t yielding 980 kg Pb and 1680 g Ag.	
Bob, Elsie Holmes (L.8393)	82FSE051	5447905 N 533764 E	Cu, Pb showing. Chalcopyrite and galena in Middle Proterozoic Creston Formation sediments.	

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Copper Queen	82FSE053	5431683 N 502558 E	Cu showing in the Toby Formation.	
Canada Belle	82FSE054	5430205 N 506579 E	Pb, Zn showing. Northerly-striking quartz veins sparsely mineralized with barite, galena, sphalerite, and pyrite. Veins are conformable with nearly vertical bedding of Middle Proterozoic lower dolomite of the Mount Nelson Formation.	
Alfred, Josephine, Belleview, Robin, Nickel Plate	82FSE061	5449380 N 532541 E	Cu, Pb, Ag, Zn showing. Sparsely disseminated pyrite, chalcopyrite, and galena associated with stringers, bunches, and masses of quartz. Some specks of tetrahedrite and sphalerite. Host rock is a silicified band of Middle Proterozoic Dutch Creek Formation dolomite.	
California	82FSE062	5444754 N 533540 E	Ag, Pb, Zn showing within Middle Proterozoic Kitchener (or Aldridge?) Formation sediments.	
Peggy	82FSE067	5444013 N 533545 E	Pb, Zn showing. Galena and sphalerite within Middle Proterozoic Kitchener (or Aldridge?) Formation sediments.	
View	82FSE070	5439844 N 509730 E	Talc past producer. Massive mineralization in veins. Host rocks are northeast-striking, steeply northwest-dipping Proterozoic Mount Nelson Formation dolomites, quartzite, argillite, sandy limestone, schists, and amphibolite. Low grade talc mined most recently in 1984 by the International Marble and Stone Company Ltd. No production figures available.	McCammon (1964)
Mike, Mike 1, Mike 2, Creston Area Kyanite	82FSE071	5444464 N 525521 E	Kyanite showing. Kyanite forms clean, bladed crystals in clumps 15 to 20 cm diameter associated with pegmatites 30 cm by 1 to 2 m by 10 m. Kyanite is also disseminated throughout the surrounding rock as 1 by 5 cm needles. Host rocks are Middle Proterozoic Aldridge Formation schists and micaceous quartzites.	McCammon (1964)
McPeak	82FSE077	5435441 N 524102 E	Cu showing. Chalcopyrite within Middle Proterozoic Aldridge Formation sediments.	
Motherlode	82FSE080	5432424 N 502192 E	Cu, Pb showing near the Toby Irene formation contact. Pyrite, Chalcopyrite, Pyrrhotite, Galena.	
Homestake, Skylark, Park, Victoria	82FSE083	5427991 N 512189 E	Pb, Ag, Cu showing. Galena and tetrahedrite within Middle Proterozoic Aldridge Formation sediments.	
Moran	82FSE097	5443916 N 507049 E	Au, Ag showing hosted in the Mine Stock.	
Summit	82FSE100	5440232 N 517027 E	Kyanite showing. Kyanite within Middle Proterozoic Aldridge Formation schist. (could be located near the Topaz showing, 082FSE004).	

STREAM SEDIMENT SAMPLES FOR THE CRESTON MAP AREA (82F/2)

STREAM SEDIMENT SAMPLES FOR THE CRESTON MAP AREA (82F/2)																						
				Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb		
				PPB	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	%	PPM	PPM	PPB	PPM	%	PPM	PPM		
Field No.	Easting	Northing	Area /Detection limit	2	5	0.5	50	0.5	1	1	5	1	0.01	1	1	5	1	0.01	20	5		
GMA94-279	502568	5436623	Char Creek	4	<5	5.5	340	11	2	32	67	3	8.69	6	<1	<5	<1	1.64	<20	41		
GMA94-280	502069	5434777	Char Creek	<2	<5	3.5	250	5.8	3	31	82	2	8.18	7	<1	<5	<1	1.51	73	47		
GMA94-281	502036	5434154	Char Creek	<2	<5	7.8	260	4.3	3	36	92	2	7.77	5	<1	<5	<1	1.55	<20	41		
GMA94-282	500981	5436717	Char Creek	<2	<5	1.8	220	10	3	37	120	2	8.82	5	<1	<5	<1	1.56	<20	<15		
GMA94-283	503449	5437571	Char Creek	<2	<5	5.7	600	23	2	16	75	4	3.88	7	<1	<5	<1	0.76	<20	84		
GMA94-284	506355	5438652	Summit Creek W.	4	<5	2.9	480	120	2	11	38	3	3.02	6	<1	<5	<1	0.75	<20	58		
GMA94-285	506406	5439046	Summit Creek W.	<2	<5	2.1	460	12	4	16	45	3	4.78	7	<1	<5	<1	1.21	<20	72		
GMA94-286	507730	5438657	Summit Creek W.	5	<5	2.1	500	15	2	10	45	4	3.07	8	<1	<5	<1	0.64	<20	75		
GMA94-287	511474	5440465	Summit Creek W.	2	<5	1.4	520	9.8	2	13	52	2	3.63	8	<1	<5	1	0.87	<20	65		
GMA94-288	518807	5443328	Summit Creek E.	<2	<5	3.8	450	11	1	7	28	6	2.22	9	<1	<5	<1	1.39	<20	86		
GMA94-291	524118	5448478	S. of Midgeley Ck	<2	<5	2.2	800	46	4	5	22	3	2.21	7	<1	<5	<1	1	<20	57		
GMA94-287(Rep.)	511474	5440465	Summit Creek W.	<2	<5	<0.5	340	9.5	2	12	42	3	3.12	6	<1	<5	<1	0.85	<20	45		
GMA94-292	524496	5447987	S. of Midgeley Ck	5	<5	1.6	960	7.1	3	5	13	2	3.8	12	<1	<5	<1	2.23	<28	46		
GMA94-293	525071	5447310	S. of Midgeley Ck	<2	<5	1.6	1500	24	4	5	19	6	1.9	7	<1	<5	2	0.95	<20	69		
DBA94-458	520820	5428690	Boundary Creek	4	<5	1.7	540	3	<1	5	23	4	1.92	12	<1	<5	<1	1.52	<20	92		
DBA94-459A	519508	5428601	Boundary Creek	<2	<5	<0.5	430	1.9	<1	3	19	4	1.31	8	<1	<5	<1	1.14	<20	70		
DBA94-459B	519508	5428601	Boundary Creek	<2	<5	<0.5	460	1.3	<1	3	21	3	1.09	7	<1	<5	<1	1.11	<20	62		
DBA94-460	518178	5427817	Boundary Creek	<2	<5	0.8	490	2.1	<1	10	31	6	2.25	9	<1	<5	<1	1.21	<20	83		
DBA94-461	515352	5428162	Boundary Creek	3	<5	<0.5	310	5.7	<1	7	24	6	1.76	8	<1	<5	<1	0.64	<20	74		
DBA94-462	514331	5427924	Boundary Creek	<2	<5	0.7	270	2.3	<1	5	20	5	1.6	8	<1	<5	<1	0.57	<20	63		
DBA94-463	504209	5430379	Monk Creek	<2	<5	2.5	620	6.7	<1	8	27	2	2.18	7	<1	<5	<1	0.63	<20	53		
DBA94-464	505250	5433844	Priest River	<2	<5	2.3	400	3.7	<1	10	23	2	2.14	6	<1	<5	<1	0.43	<20	33		
DBA94-465	510268	5438148	Maryland Creek	3	<5	2	400	3.9	<1	9	30	2	2.37	10	<1	<5	<1	0.43	<20	43		
DBA94-466	511769	5437773	Maryland /Buckworth	<2	<5	<0.5	370	7.8	1	11	37	4	2.85	6	<1	<5	<1	0.67	<20	77		
DBA94-467	515058	5438680	Buckworth Creek	<2	<5	<0.5	410	4.1	<1	6	28	6	1.91	9	<1	<5	2	0.62	<20	83		
DBA94-468	515605	5438233	Buckworth Creek	<2	<5	<0.5	310	2.9	1	7	30	7	2.24	7	<1	<5	<1	0.72	<20	81		
DBA94-469	517254	5436678	Buckworth Creek	<2	<5	<0.5	220	2.6	<1	4	19	5	1.15	7	<1	<5	1	0.39	43	47		
DBA94-470	518083	5436639	Buckworth Creek	<2	<5	<0.5	240	3.1	<1	4	20	6	1.24	8	<1	<5	<1	0.54	<20	53		
DBA94-471	500674	5431290	Monk Creek	<2	<5	6.8	300	7.8	1	22	74	2	5.2	7	<1	<5	2	0.89	140	47		
DBA94-472	500211	5430758	Monk Creek	7	<5	3.7	<50	11	3	26	68	2	6.47	6	<1	<5	<1	1.36	<20	<15		
DBA94-471(Rep.)	500674	5431290	Monk Creek	3	<5	6.5	350	7.8	1	22	75	2	5.2	7	<1	<5	<1	0.9	66	49		
DBA94-473	500785	5431288	Monk Creek	5	<5	9.8	330	5	3	31	68	2	7.16	7	<1	<5	<1	1.36	<20	55		
DBA94-474	523939	5442959	Summit Creek E.	<2	<5	1.1	860	11	3	14	120	9	3.13	8	<1	<5	4	1.15	110	82		
DBA94-475	523005	5442736	Summit Creek E.	4	<5	1.4	380	9.5	<1	6	40	11	2.07	7	<1	<5	<1	1.1	<20	84		
DBA94-476	522295	5442548	Summit Creek E.	3	<5	2.2	310	5.6	<1	5	33	12	1.92	7	<1	<5	<1	0.89	<20	80		

				Sb	Sc	Se	Sn	Sr	Ta	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Mass			
				PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	g			
Field No.	Easting	Northing	Area/Detection limit	0.1	0.1	5	100	500	0.5	0.2	0.5	1	50	0.5	3	5	0.1	0.2	0.5	0.2	0			
GMA94-279	502568	5436623	Char Creek	0.8	30	<3	<100	<500	2.3	4.7	1.3	<1	181	32	77	29	7.5	2.7	1.4	3.5	28.98			
GMA94-280	502069	5434777	Char Creek	0.7	28	<3	<100	<500	1.3	7.2	1.8	<1	154	39	87	38	8	2.8	1.3	3.7	30.62			
GMA94-281	502036	5434154	Char Creek	1	31	<3	<100	<500	1.5	4.4	1.7	<1	104	27	65	32	7.1	2.4	1.1	3.1	31.54			
GMA94-282	500981	5436717	Char Creek	0.5	34	<3	<100	<500	1.2	2.6	1.9	<1	194	21	50	18	5.5	2	0.9	3.5	31.75			
GMA94-283	503449	5437571	Char Creek	0.6	15	3	<100	<500	1.1	12	5.3	<1	130	39	85	33	6.4	1.8	0.8	3.5	25.83			
GMA94-284	506355	5438652	Summit Creek W.	0.6	9.5	<3	<100	<500	<0.5	6.9	8.5	<1	111	29	63	27	4.8	1.4	<0.5	2.6	18.69			
GMA94-285	506406	5439046	Summit Creek W.	<0.1	15	<3	<100	<500	1.8	10	3.1	<1	100	39	80	32	6	1.9	0.8	3.3	33.07			
GMA94-286	507730	5438657	Summit Creek W.	0.7	10	<3	<100	<500	1.2	11	2.7	<1	93	37	79	30	5.4	1.4	0.9	2.9	28.24			
GMA94-287	511474	5440465	Summit Creek W.	0.2	13	<3	<100	<500	1.1	11	2.5	<1	80	44	89	37	6.2	1.8	0.7	3.1	33.98			
GMA94-288	518807	5443328	Summit Creek E.	0.3	8.9	<3	<100	<500	2.1	15	5.9	4	94	53	120	41	7.8	1.9	1.3	5	32.55			
GMA94-291	524118	5448478	S. of Midgeley Ck	0.5	6	<3	<100	640	1.3	8	14	<1	65	42	87	34	6.7	2.5	0.9	4.1	13.66			
GMA94-287(Rep.)	511474	5440465	Summit Creek W.	0.2	12	<3	<100	590	0.6	10	2.2	<1	92	42	72	28	5.8	1.5	0.9	3.1	33.79			
GMA94-292	524496	5447987	S. of Midgeley Ck	<0.1	11	<3	<100	640	4.1	31	9	<1	<50	170	280	99	18	4.6	2.1	8	30.48			
GMA94-293	525071	5447310	S. of Midgeley Ck	0.5	6.3	<3	<100	<500	1	12	3.1	<1	175	54	110	44	7.1	1.8	<0.5	3.4	28.84			
DBA94-458	520820	5428690	Boundary Creek	0.3	6.9	<3	<100	<500	2.1	18	17	4	<50	53	100	38	6.7	1.6	0.9	4.1	33.03			
DBA94-459A	519508	5428601	Boundary Creek	0.3	5.5	<3	<100	<500	1.5	12	6	<1	<50	45	86	37	6	1.5	1	3.7	29.67			
DBA94-459B	519508	5428601	Boundary Creek	0.2	5.1	<3	<100	<500	1.5	10	5.5	3	<50	40	76	27	5.3	1.3	0.7	3.4	30.16			
DBA94-460	518178	5427817	Boundary Creek	0.3	9.1	<3	<100	<500	1.5	12	3.5	<1	78	40	88	30	6.2	1.5	0.9	4	32.65			
DBA94-461	515352	5428162	Boundary Creek	0.4	5.7	<3	<100	<500	1.2	9.6	3.2	14	<50	47	93	40	7	1.7	1.1	3.6	31.22			
DBA94-462	514331	5427924	Boundary Creek	0.3	4.8	<3	<100	<500	1.7	9.6	2.5	7	<50	37	83	33	5.5	1.4	0.8	3.4	30.12			
DBA94-463	504209	5430379	Monk Creek	0.4	6.3	<3	<100	<500	<0.5	7.5	1.9	<1	69	30	65	28	4.6	1.2	0.7	2.9	32.19			
DBA94-464	505250	5433844	Priest River	0.5	6.6	<3	<100	<500	<0.5	7.5	1.7	3	67	30	64	28	4.7	1.3	0.6	2.2	30.65			
DBA94-465	510268	5438148	Maryland Creek	0.6	6.5	<3	<100	<500	1.2	8.5	1.8	<1	53	33	72	28	5	1.3	0.8	3.3	30.19			
DBA94-466	511769	5437773	MaryInd Ck/Buckworth C	0.3	8.8	<3	<100	<500	1.5	8.3	2.4	<1	84	40	71	38	6.3	1.6	1	3	29.82			
DBA94-467	515058	5438680	Buckworth Creek	0.1	7.6	<3	<100	<500	0.7	8	2	3	59	27	58	19	4.2	1	0.7	3.5	30.15			
DBA94-468	515605	5438233	Buckworth Creek	0.2	7.3	<3	<100	<500	1.3	8.9	2.1	4	73	29	60	31	4.4	1.1	0.7	3.1	33.05			
DBA94-469	517254	5436678	Buckworth Creek	0.2	4.2	<3	<100	<500	0.6	6.8	2.2	3	<50	27	61	22	4	1	0.6	3.4	32.13			
DBA94-470	518083	5436639	Buckworth Creek	0.3	5	<3	<100	<500	1.2	7.1	2.5	3	<50	29	65	23	4.5	1.1	0.7	3.6	30.58			
DBA94-471	500674	5431290	Monk Creek	0.7	17	<3	<100	<500	1.3	12	2.8	<1	109	56	110	45	8.2	2.6	1.4	3.3	31.08			
DBA94-472	500211	5430758	Monk Creek	0.7	29	<3	<100	<500	2.4	5.1	1.5	<1	121	37	84	35	8	2.9	1.3	3.7	29.16			
DBA94-471(Rep.)	500674	5431290	Monk Creek	0.5	18	<3	<100	<500	1	12	2.7	<1	148	56	110	44	8.4	2.6	1.2	3.3	29.96			
DBA94-473	500785	5431288	Monk Creek	0.8	27	<3	<100	<500	1.2	7.6	2.1	<1	132	45	97	39	8.9	3.1	1.6	3.8	32.8			
DBA94-474	523939	5442959	Summit Creek E.	<0.1	13	<3	<100	610	4	16	3.6	<1	102	100	190	75	10	2.8	1.3	3.9	30.4			
DBA94-475	523005	5442736	Summit Creek E.	0.3	7.7	<3	<100	<500	2.7	13	3.5	5	82	45	95	34	6.4	1.5	1.1	4.3	31.24			
DBA94-476	522295	5442548	Summit Creek E.	0.5	6.8	<3	<100	<500	3	13	3.2	6	70	43	91	36	6.2	1.5	0.9	4.4	31.9			
Notes:																								
Analytical method: INA- instrumental neutron activation, performed by Activation Laboratories, Ancaster, Ontario.																								
For details on analytical procedures contact Ray Lett, Geochemist, at (604) 952-0396.																								

