Appendix 3. Isotopic geochronology from Quiet Lake and Finlayson Lake map areas (from Breitspecher and Mortensen, 2004; YukonAge CD)

labno	refno	age_method	age	err_plus	err_minus	age_interp	age_note	authors	year	sampleno	geolunit	rocktype	rockdesc	NTSRef	MapName	nts50	rel_rating	laboratory	Text97	lat83	long83	easting83	northing83	utm zone	lat27	long27	easting27	northing27	Map unit
743.00	110	K/Ar Biotite	**67.1**	4.8	4.8	Cooling 280°C		Armstrong, R.L. and Dawson, K.M.	0	DY-3118	Cassiar Suite	Plutonic	Quartz Monzonite biotite quartz monzonite stock adjacent to TINTINA SILVER Ag-Pb-Zn occurrence	105G	Finlayson Lake	3	B	University of British Columbia	743	61.15142	131.153734	384083	6781562	9	61.1516389	131.151917	384176	6781379	CASSIAR
506.00	47	K/Ar Biotite	**67.4**	6	6	Cooling 280°C		Lowdon, J.A.	1961	Rd-59-222a	Cassiar Suite	Plutonic	Biotite Granodiorite coarse grained, locally porphyritic, biotite granodiorite	105G	Finlayson Lake	2	A	Geological Survey of Canada (Ottawa)- GSC No: 60-29	506	61.118119	130.853716	400122	6777359	9	61.1183056	130.851917	400215	6777176	CASSIAR
170.00	105	K/Ar Biotite	**70.1**	2.6	2.6	Cooling 280°C		Wanless, R.K., Stevens, R.D., Lachance, G.R. and Delabio, R.N.	1979	TO-75-27-9	Cassiar Suite	Plutonic	Quartz Monzonite Quiet Lake Batholith	105F	Quiet Lake	3	A	Geological Survey of Canada (Ottawa)- GSC No: 78-108	170	61.118712	133.412348	585543	6777048	8	61.11897	133.41049	585646	6776875	mKp
164.00	105	K/Ar Biotite	**76.7**	3.4	3.4	Cooling 280°C		Wanless, R.K., Stevens, R.D., Lachance, G.R. and Delabio, R.N.	1979	TO-75-26-7	Cassiar Suite	Plutonic	Quartz Monzonite Dycer Creek Stock	105F	Quiet Lake	5	A	Geological Survey of Canada (Ottawa)- GSC No: 78-102	164	61.441408	133.885226	559453	6812463	8	61.44166	133.88333	559556	6812290	mKp
169.00	105	K/Ar Biotite	**85.3**	3.1	3.1	Cooling 280°C		Wanless, R.K., Stevens, R.D., Lachance, G.R. and Delabio, R.N.	1979	TO-75-31-17	Cassiar Suite	Plutonic	Granodiorite Quiet Lake Batholith	105F	Quiet Lake	4	A	Geological Survey of Canada (Ottawa)- GSC No: 78-107	169	61.13307	133.510199	580235	6778523	8	61.13333	133.50833	580338	6778350	mKp
4.00	98	K/Ar Hornblende	**86**	26	26	Cooling 500°C		Wanless, R.K., Stevens, R.D., Lachance, G.R. and Edmonds, C.M.	1967	RD-64-1030		Metamorphic	Gneiss hornblende-plagioclase gneiss	105F	Quiet Lake	11	A	Geological Survey of Canada (Ottawa)- GSC No: 65-37	4	61.683102	133.268579	591620	6840097	8	61.68333	133.26667	591724	6839923	CASSIAR
168.00	105	K/Ar Biotite	**86.4**	3.2	3.2	Cooling 280°C		Wanless, R.K., Stevens, R.D., Lachance, G.R. and Delabio, R.N.	1979	TOC-75-17b	Cassiar Suite	Plutonic	Quartz Monzonite Nisutlin Batholith	105F	Quiet Lake	7	A	Geological Survey of Canada (Ottawa)- GSC No: 78-106	168	61.258098	132.843516	615673	6793445	8	61.25833	132.84166	615776	6793271	mKp
165.00	105	K/Ar Biotite	**88.1**	3.2	3.2	Cooling 280°C		Wanless, R.K., Stevens, R.D., Lachance, G.R. and Delabio, R.N.	1979	TO-75-25-11	Cassiar Suite	Plutonic	Quartz Monzonite Nisutlin Batholith	105F	Quiet Lake	5	A	Geological Survey of Canada (Ottawa)- GSC No: 78-103	165	61.470583	133.568567	576268	6816042	8	61.47083	133.56666	576372	6815869	mKp
452.00	33	K/Ar Muscovite	**90.8**	1.4	1.4	Cooling 375°C		Hunt, P.A. and Roddick, J.C.	1992	MLB-89-321	Selwyn Plutonic Suite	Plutonic	Quartz Monzonite massive, unfoliated, biotite quartz monzonite with K-spar megacrysts	105G	Finlayson Lake	11	A	Geological Survey of Canada (Ottawa)- GSC No: 91-117	452	61.536438	131.11708	387446	6824369	9	61.5366111	131.115222	387540	6824184	mKp
166.00	105	K/Ar Biotite	**91.2**	3.3	3.3	Cooling 280°C		Wanless, R.K., Stevens, R.D., Lachance, G.R. and Delabio, R.N.	1979	TO-75-19-19	Cassiar Suite	Plutonic	Quartz Monzonite Nisutlin Batholith	105F	Quiet Lake	7	A	Geological Survey of Canada (Ottawa)- GSC No: 78-104	166	61.483102	132.818553	616174	6818543	8	61.48333	132.81667	616278	6818369	mKp
7.00	98	K/Ar Biotite	**92**	6	6	Cooling 280°C		Wanless, R.K., Stevens, R.D., Lachance, G.R. and Edmonds, C.M.	1967	RD-64-1029B	Cassiar Suite	Plutonic	Quartz Monzonite medium to coarse grained biotite quartz monzonite with large K-spar phenocrysts	105F	Quiet Lake	11	A	Geological Survey of Canada (Ottawa)- GSC No: 65-34	7	61.591427	133.443581	582605	6829653	8	61.59166	133.44167	582709	6829479	CASSIAR
22.00	98	K/Ar Biotite	**92**	6	6	Cooling 280°C		Wanless, R.K., Stevens, R.D., Lachance, G.R. and Edmonds, C.M.	1967	RD-64-1030A	Cassiar Suite	Plutonic	Granite somewhat altered sample of coarse grained biotite granite of the Big Salmon Batholith	105F	Quiet Lake	14	A	Geological Survey of Canada (Ottawa)- GSC No: 65-35	22	61.766433	133.443596	582138	6849144	8	61.76667	133.44168	582242	6848970	mKp
23.00	98	K/Ar Biotite	**94**	5	5	Cooling 280°C		Wanless, R.K., Stevens, R.D., Lachance, G.R. and Edmonds, C.M.	1967	RD-64-1029A		Metamorphic	Schist quartz-feldspar-hornblende-biotite schist	105F	Quiet Lake	11	A	Geological Survey of Canada (Ottawa)- GSC No: 65-36	23	61.666428	133.335252	588140	6838148	8	61.66666	133.33334	588244	6837974	CASSIAR
590.00	127	Rb/Sr Wr-muscovite	**94**	2	2	Metamorphic Cooling Age		Mortensen, J.K.	1983	AG-06	Mink Creek orthogneiss	Plutonic	Augen Orthogneiss strongly foliated granitic augen orthogneiss	105G	Finlayson Lake	12	A	University of California (Santa Barbara)	598	61.623423	131.57081	363714	6834921	9	61.6236111	131.568944	363808	6834737	YUKON TANANA
167.00	105	K/Ar Biotite	**96**	3.5	3.5	Cooling 280°C		Wanless, R.K., Stevens, R.D., Lachance, G.R. and Delabio, R.N.	1979	TO-75-20-3	Cassiar Suite	Plutonic	Quartz Monzonite Nisutlin Batholith	105F	Quiet Lake	7	A	Geological Survey of Canada (Ottawa)- GSC No: 78-105	167	61.391433	132.601879	628085	6808742	8	61.39166	132.60001	628189	6808568	mKp
619.00	29	K/Ar Muscovite	**98.2**	1.5	1.5	Cooling 375°C		Hunt, P.A. and Roddick, J.C.	1987	SYA83-42	Cassiar Suite	Plutonic	Granite medium grained muscovite-biotite granite associated with the Risby W deposit	105F	Quiet Lake	14	A	Geological Survey of Canada (Ottawa)- GSC No: 87-157	619	61.85532	133.38804	584824	6859115	8	61.85555	133.38612	584928	6858941	CASSIAR
171.00	105	K/Ar Biotite	**99.2**	3.6	3.6	Cooling 280°C		Wanless, R.K., Stevens, R.D., Lachance, G.R. and Delabio, R.N.	1979	TO-75-17-3	Cassiar Suite	Plutonic	Quartz Monzonite White Creek Stock	105F	Quiet Lake	8	A	Geological Survey of Canada (Ottawa)- GSC No: 78-109	171	61.433115	132.185196	650131	6814271	8	61.43333	132.18334	650235	6814096	mKp
361.00	91	K/Ar Biotite	**99.6**	3.7	3.7	Cooling 280°C		Stevens, R.D., Delabio, R.N. and Lachance, G.R.	1982	TO-76-19-1	Selwyn Plutonic Suite	Plutonic	Granite	105G	Finlayson Lake	16	A	Geological Survey of Canada (Ottawa)- GSC No: 80-87	361	61.908245	130.230534	435357	6864571	9	61.9083889	130.228694	435450	6864386	mKp
804.00	34	Ar/Ar Biotite	**100**	1	1	Metamorphic Cooling Age		Hunt, P.A. and Roddick, J.C.	1992	CR-459	annealed by Nisutlin Batholith	Plutonic	Granodiorite Gneiss medium-grained, mylonite, granodiorite gneiss; fabrics are crosscut and annealed by Nisutlin Batholith	105F	Quiet Lake	11	A	Geological Survey of Canada (Ottawa)	803	61.568101	133.080238	601962	6827570	8	61.56833	133.07834	602066	6827396	CASSIAR
452.00	33	K/Ar Biotite	**100**	2.9	2.9	Geological Error	Anomalously old compared to K-Ar muscovite age for same sample, excess Ar?	Hunt, P.A. and Roddick, J.C.	1992	MLB-89-321	Selwyn Plutonic Suite	Plutonic	Quartz Monzonite massive, unfoliated, biotite quartz monzonite with K-spar megacrysts	105G	Finlayson Lake	11	C	Geological Survey of Canada (Ottawa)- GSC No: 91-117	453	61.536438	131.11708	387446	6824369	9	61.5366111	131.115222	387540	6824184	mKp
426.00	110	K/Ar Whole Rock	**101**	8	8	Metamorphic Cooling Age	K/Ar whole-rock method unreliable	Armstrong, R.L. and Dawson, K.M.	0	DY-3137		Metamorphic	Hornfels biotite hornfels that hosts the KETZA gold replacement ore bodies	105F	Quiet Lake	9	B	University of British Columbia	426	61.538658	132.293534	643867	6825776	8	61.53888	132.29166	643971	6825602	CASSIAR
746.00	32	K/Ar Muscovite	**101**	1.8	1.8	Cooling 375°C		Hunt, P.A. and Roddick, J.C.	1991	TOA-85-24-1	Cassiar Suite	Plutonic	Muscovite Granite intrusion near centre of Seagull Uplift	105F	Quiet Lake	10	A	Geological Survey of Canada (Ottawa)- GSC No: 90-78	746	61.555321	132.68522	622987	6826829	8	61.55555	132.68334	623091	6826655	CASSIAR
713.00	98	K/Ar Biotite	**101**	5	5	Cooling 280°C		Wanless, R.K., Stevens, R.D., Lachance, G.R. and Edmonds, C.M.	1967	WB-64-207-2		Metamorphic	Schist quartz-plagioclase-hornblende-biotite schist of Yukon-Tanana Terrane	105G	Finlayson Lake	7	A	Geological Survey of Canada (Ottawa)- GSC No: 65-45	713	61.384742	130.553712	416990	6806631	9	61.3849167	130.551917	417083	6806446	YUKON TANANA
620.00	29	K/Ar Muscovite	**102.7**	1.6	1.6	Cooling 375°C		Hunt, P.A. and Roddick, J.C.	1987	SYA83-43	Cassiar Suite	Plutonic	Granite medium grained muscovite-biotite granite associated with the Risby W deposit	105F	Quiet Lake	14	A	Geological Survey of Canada (Ottawa)- GSC No: 87-158	620	61.85532	133.38804	584824	6859115	8	61.85555	133.38612	584928	6858941	CASSIAR
613.00	33	K/Ar Muscovite	**103**	1.9	1.9	Cooling 375°C		Hunt, P.A. and Roddick, J.C.	1992	FL-46	Selwyn Plutonic Suite	Plutonic	Quartz Monzonite unfoliated biotite-muscovite quartz monzonite	105G	Finlayson Lake	2	A	Geological Survey of Canada (Ottawa)	478	61.159733	130.513714	418546	6781522	9	61.1599167	130.511917	418639	6781338	mKp
747.00	32	K/Ar Biotite	**103.2**	2.7	2.7	Cooling 280°C		Hunt, P.A. and Roddick, J.C.	1991	TOA-85-27-1		Plutonic	Mafic Dyke altered dyke near northern margin of Seagull Uplift	105F	Quiet Lake	10	A	Geological Survey of Canada (Ottawa)- GSC No: 90-79	747	61.649768	132.813008	615846	6837111	8	61.64999	132.81112	615950	6836937	CASSIAR
474.00	33	K/Ar Biotite	**103.4**	1.8	1.8	Cooling 280°C		Hunt, P.A. and Roddick, J.C.	1992	KG-31	Selwyn Plutonic Suite	Plutonic	Quartz Monzonite massive, unfoliated muscovite-biotite quartz monzonite	105G	Finlayson Lake	7	A	Geological Survey of Canada (Ottawa)- GSC No: 91-115	475	61.341445	130.518721	418747	6801765	9	61.3416111	130.516917	418840	6801580	mKp
474.00	33	K/Ar Muscovite	**103.8**	2.2	2.2	Cooling 375°C		Hunt, P.A. and Roddick, J.C.	1992	KG-31	Selwyn Plutonic Suite	Plutonic	Quartz Monzonite massive, unfoliated muscovite-biotite quartz monzonite	105G	Finlayson Lake	7	A	Geological Survey of Canada (Ottawa)- GSC No: 91-115	474	61.341445	130.518721	418747	6801765	9	61.3416111	130.516917	418840	6801580	mKp
451.00	33	K/Ar Muscovite	**104.6**	1.8	1.8	Cooling 375°C		Hunt, P.A. and Roddick, J.C.	1992	MLB-89-320	Mink Creek orthogneiss	Plutonic	Granitic Orthogneiss coarse grained K-spar augen orthogneiss	105G	Finlayson Lake	12	A	Geological Survey of Canada (Ottawa)- GSC No: 91-107	451	61.624723	131.542121	365240	6835006	9	61.6249167	131.54025	365334	6834822	YUKON TANANA

575.00	33	K/Ar Biotite	**104.6**	2	2	Cooling 280°C		Hunt, P.A. and Roddick, J.C.	1992	MLB-89-326a		Plutonic	Granitic Orthogneiss strongly foliated (mylonitic) granitic orthogneiss. U-Pb zircon age of 360 +/- 1 Ma from same body.	105G	Finlayson Lake	8	A	Geological Survey of Canada (Ottawa)- GSC No: 91-110	575	61.366271	130.395646	425390	6804383	9	61.3664444	130.393833	425483	6804198	YUKON TANANA	
600.00	127	Rb/Sr Wr-muscovite	**105**	2	2	Metamorphic Cooling Age		Mortensen, J.K.	1983	AG-08	Mink Creek orthogneiss	Plutonic	Granitic Orthogneiss augen-free foliated aplite band within granitic augen orthogneiss	105G	Finlayson Lake	12	A	University of British Columbia	600	61.621459	131.548533	364886	6834656	9	61.6216667	131.546667	364980	6834472	YUKON TANANA	
474.00	127	U/Pb Zircon	**107.7**	5.5	5.5	Igneous Crystallization Age		Mortensen, J.K.	1983	KG-31	Selwyn Plutonic Suite	Plutonic	Quartz Monzonite massive, unfoliated muscovite-biotite quartz monzonite	105G	Finlayson Lake	7	A	Geological Survey of Canada (Ottawa)- GSC No: 91-115	611	61.341445	130.518721	418747	6801765	9	61.3416111	130.516917	418840	6801580	mKp	
1197.00	188	Ar/Ar Muscovite	**108**	0.6	0.6	Mineralization Age		Fonseca, A.	1998	5378	Ketza River Deposit, Shamrock zone	Hydrothermal	vein quartz-sulphide vein	105F	Quiet Lake	9	A	University of Fairbanks (Alaska)	1304	61.549199	132.268913	645126	6827004	8	61.54942	132.26704	645230	6826830	CASSIAR	
591.00	127	U/Pb Monazite	**109.9**	0.5	0.5	Igneous Crystallization Age		Mortensen, J.K.	1983	KM-07	Selwyn Plutonic Suite	Plutonic	Quartz Monzonite unfoliated biotite-muscovite quartz monzonite	105G	Finlayson Lake	11	A	Geological Survey of Canada (Ottawa)	591	61.534431	131.116774	387455	6824145	9	61.5346111	131.114917	387549	6823960	mKp	
613.00	33	K/Ar Biotite	**110.1**	1.5	1.5	Geological Error		Hunt, P.A. and Roddick, J.C.	1992	FL-46	Selwyn Plutonic Suite	Plutonic	Quartz Monzonite unfoliated biotite-muscovite quartz monzonite	105G	Finlayson Lake	2	B	Geological Survey of Canada (Ottawa)	749	61.159733	130.513714	418546	6781522	9	61.1599167	130.511917	418639	6781338	mKp	
804.00	70	U/Pb Zircon	**110.3**	5.7	5.7	Igneous Crystallization Age		Mortensen, J.K. and Hansen, V.L.	1992	CR-459	crosscut and annealed by Nisutlin Batholith	Plutonic	Granodiorite Gneiss medium-grained, mylonite, granodiorite gneiss; fabrics are crosscut and annealed by Nisutlin Batholith	105F	Quiet Lake	11	A	Geological Survey of Canada (Ottawa)	804	61.568101	133.080238	601962	6827570	8	61.56833	133.07834	602066	6827396	CASSIAR	
804.00	70	U/Pb Monazite	**110.8**	0.4	0.4	Igneous Crystallization Age		Mortensen, J.K. and Hansen, V.L.	1992	CR-459	crosscut and annealed by Nisutlin Batholith	Plutonic	Granodiorite Gneiss medium-grained, mylonite, granodiorite gneiss; fabrics are crosscut and annealed by Nisutlin Batholith	105F	Quiet Lake	11	A	Geological Survey of Canada (Ottawa)	805	61.568101	133.080238	601962	6827570	8	61.56833	133.07834	602066	6827396	CASSIAR	
479.00	127	U/Pb Zircon	**111.6**	0	0	Igneous Crystallization Age		Mortensen, J.K.	1983	MP-18	Selwyn Plutonic Suite	Plutonic	Quartz Monzonite unfoliated biotite-muscovite quartz monzonite of Money Plug	105G	Finlayson Lake	8	A	Geological Survey of Canada (Ottawa)	479	61.361449	130.253706	432967	6803692	9	61.3616111	130.251917	433060	6803507	YUKON TANANA	
355.00	91	K/Ar Biotite	**112**	4	4	Cooling 280°C		Stevens, R.D., Delabio, R.N. and Lachance, G.R.	1982	TO-76-7-1		Plutonic	Lamprophyre minette dyke cutting Mississippian felsic volcanic rocks	105F	Quiet Lake	10	A	Geological Survey of Canada (Ottawa)- GSC No: 80-82	355	61.541437	132.585215	628356	6825476	8	61.54166	132.58334	628460	6825302	CASSIAR	
613.00	127	U/Pb Monazite	**112**	2.5	2.5	Igneous Crystallization Age		Mortensen, J.K.	1983	FL-46	Selwyn Plutonic Suite	Plutonic	Quartz Monzonite unfoliated biotite-muscovite quartz monzonite	105G	Finlayson Lake	2	A	Geological Survey of Canada (Ottawa)	613	61.159733	130.513714	418546	6781522	9	61.1599167	130.511917	418639	6781338	mKp	
602.00	127	U/Pb Monazite	**112**	0	0	Metamorphic Cooling Age	Two analyses which show slight inheritance.	Mortensen, J.K.	1983	GG-20		Plutonic	Granitic Orthogneiss strongly foliated orthogneiss of quartz monzonitic composition	105G	Finlayson Lake	8	B	Geological Survey of Canada (Ottawa)	603	61.441446	130.28572	431431	6812635	9	61.4416111	130.283917	431524	6812450	YUKON TANANA	
616.00	127	U/Pb Monazite	**112.2**	0.5	0.5	Igneous Crystallization Age		Mortensen, J.K.	1983	ARG-33	Selwyn Plutonic Suite	Plutonic	Granite unfoliated, coarse grained muscovite granite sill intruding sheared serpentinite	105G	Finlayson Lake	7	A	Geological Survey of Canada (Ottawa)	616	61.269934	130.56846	415895	6793864	9	61.2701111	130.566667	415988	6793680	mKp	
590.00	127	U/Pb Monazite	**112.2**	0.5	0.5	Metamorphic Cooling Age		Mortensen, J.K.	1983	AG-06	Mink Creek orthogneiss	Plutonic	Augen Orthogneiss strongly foliated granitic augen orthogneiss	105G	Finlayson Lake	12	A	University of California (Santa Barbara)	750	61.623423	131.57081	363714	6834921	9	61.6236111	131.568944	363808	6834737	YUKON TANANA	
479.00	127	U/Pb Monazite	**112.4**	0	0	Igneous Crystallization Age		Mortensen, J.K.	1983	MP-18	Selwyn Plutonic Suite	Plutonic	Quartz Monzonite unfoliated biotite-muscovite quartz monzonite of Money Plug	105G	Finlayson Lake	8	A	Geological Survey of Canada (Ottawa)	597	61.361449	130.253706	432967	6803692	9	61.3616111	130.251917	433060	6803507	YUKON TANANA	
613.00	127	U/Pb Zircon	**112.5**	1	1	Igneous Crystallization Age		Mortensen, J.K.	1983	FL-46	Selwyn Plutonic Suite	Plutonic	Quartz Monzonite unfoliated biotite-muscovite quartz monzonite	105G	Finlayson Lake	2	A	Geological Survey of Canada (Ottawa)	614	61.159733	130.513714	418546	6781522	9	61.1599167	130.511917	418639	6781338	mKp	
368.00	9	K/Ar Hornblende	**113**	8	8	Cooling 500°C		Chronic, F.J.	1979	C77GU-N2A		Plutonic	Mafic Dyke mafic dyke cutting Mississippian syenite	105F	Quiet Lake	9	A	University of British Columbia	368	61.499774	132.446322	635918	6821119	8	61.5	132.44445	636022	6820945	CASSIAR	
474.00	127	U/Pb Monazite	**113**	1.7	1.7	Igneous Crystallization Age		Mortensen, J.K.	1983	KG-31	Selwyn Plutonic Suite	Plutonic	Quartz Monzonite massive, unfoliated muscovite-biotite quartz monzonite	105G	Finlayson Lake	7	A	Geological Survey of Canada (Ottawa)- GSC No: 91-115	612	61.341445	130.518721	418747	6801765	9	61.3416111	130.516917	418840	6801580	mKp	
460.00	33	K/Ar Muscovite	**113.4**	1.8	1.8	Cooling 375°C		Hunt, P.A. and Roddick, J.C.	1992	MLB-89-328	Mink Creek orthogneiss	Plutonic	Granitic Orthogneiss strongly foliated K-spar augen orthogneiss	105G	Finlayson Lake	11	A	Geological Survey of Canada (Ottawa)- GSC No: 91-108	460	61.708122	131.453812	370270	6844112	9	61.7083056	131.451944	370364	6843928	YUKON TANANA	
615.00	127	U/Pb Monazite	**113.8**	1	1	Igneous Crystallization Age		Mortensen, J.K.	1983	KP-09	Selwyn Plutonic Suite	Plutonic	Quartz Monzonite unfoliated biotite-muscovite quartz monzonite	105G	Finlayson Lake	11	A	Geological Survey of Canada (Ottawa)	615	61.614424	131.330794	376398	6833440	9	61.6146111	131.328917	376492	6833256	YUKON TANANA	
5096.00	203	Ar/Ar Hornblende	**123.5**	1.5	1.5	Cooling 500°C	2 flat, reproducible, multi-step plateaus with no evidence of later Ar loss. 97 % of gas i plateau regions.	Villeneuve, M.E.	2002	97DM-182	Hb-Gt Amphibolite	Metamorphic	Hornblende Gabbro	105G	Finlayson Lake	7	A	University of British Columbia	94991	61.277065	130.920434	397048	6795162	9	61.27725	130.918639	397141	6794978	YUKON TANANA	
1196.00	188	Ar/Ar Biotite	**125.3**	1	1	Geological Error	Disturbed spectra - higher temperature produces older age (221 +/- 4 Ma). The mica may also be a post-mineralization alteration product. Neither the plateau or peak ages are consistent with field relations.	Fonseca, A.	1998	4448	Ketza River Deposit, Lab zone	Hydrothermal	ore-body black fine-grained mica intergrown with sulphides, manto-style ore body	105F	Quiet Lake	9	C	University of Fairbanks (Alaska)	1305	61.536687	132.285632	644296	6825574	8	61.53691	132.28376	644400	6825400	CASSIAR	
370.00	9	Rb/Sr Wr-mineral	**128**	50	50	Peak Metamorphic Age	3-pt. errorchron (wr-Kspar-bt/arfved; Sr initial = 0.7146 +/- 14).	Chronic, F.J.	1979	not reported14		Plutonic	Syenite Mississippian stock at Guano-Guayes property	105F	Quiet Lake	9	B	University of British Columbia	370	61.499774	132.446322	635918	6821119	8	61.5	132.44445	636022	6820945	CASSIAR	
576.00	33	K/Ar Hornblende	**156.3**	5	5	Cooling 500°C		Hunt, P.A. and Roddick, J.C.	1992	MLB-89-334	Simpson Range Plutonic Suite	Plutonic	Granodiorite moderately foliated hornblende-biotite granodiorite. Protolith age (U-Pb) is 350-360 Ma.	105G	Finlayson Lake	1	A	Geological Survey of Canada (Ottawa)- GSC No: 91-106	576	61.184434	130.360703	426836	6784092	9	61.1846111	130.358917	426929	6783908	YUKON TANANA	
369.00	9	K/Ar Biotite	**160**	10	10	Cooling 280°C		Chronic, F.J.	1979	C77GU-N3		Plutonic	Syenite Mississippian stock at Guano-Guayes property	105F	Quiet Lake	9	A	University of British Columbia	369	61.516435	132.446309	635846	6822974	8	61.51666	132.44444	635950	6822800	CASSIAR	
449.00	33	K/Ar Hornblende	**180.9**	2.6	2.6	Cooling 500°C		Hunt, P.A. and Roddick, J.C.	1992	MLB-89-322a		Plutonic	Hornblende Diorite unfoliated hornblende diorite with K-spar phenocrysts; part of a small heterogeneous stock	105G	Finlayson Lake	10	A	Geological Survey of Canada (Ottawa)- GSC No: 91-111	449	61.543437	130.946766	396522	6824866	9	61.5436111	130.944917	396616	6824681	mKp	
607.00	127	U/Pb Zircon	**182**	0	0	Igneous Crystallization Age		Mortensen, J.K.	1983	RCA-15		Plutonic	Porphyritic Granodiorite unfoliated porphyritic hornblende-biotite granodiorite	105G	Finlayson Lake	1	A	Geological Survey of Canada (Ottawa)	607	61.239439	130.050699	443602	6789911	9	61.2396111	130.048917	443695	6789727	mKp	
788.00	91	K/Ar Biotite	**183**	7	7	Cooling 280°C		Stevens, R.D., Delabio, R.N. and Lachance, G.R.	1982	TO-76-33-4	Simpson Range Plutonic Suite	Plutonic	Quartz Monzonite strongly foliated quartz monzonite in Money Klippe	105G	Finlayson Lake	1	B	Geological Survey of Canada (Ottawa)- GSC No: 80-83	788	61.184741	130.236991	433488	6783994	9	61.1849167	130.235194	433581	6783810	YUKON TANANA	
607.00	127	U/Pb Titanite	**185.4**	1	1	Igneous Crystallization Age		Mortensen, J.K.	1983	RCA-15		Plutonic	Porphyritic Granodiorite unfoliated porphyritic hornblende-biotite granodiorite	105G	Finlayson Lake	1	A	Geological Survey of Canada (Ottawa)	608	61.239439	130.050699	443602	6789911	9	61.2396111	130.048917	443695	6789727	mKp	

605.00	127	U/Pb Titanite	**185.5**	1	1	Igneous Cooling Age		Mortensen, J.K.	1983	DM-04		Plutonic	Granodiorite unfoliated hornblende-biotite granodiorite	105G	Finlayson Lake	10	A	University of California (Santa Barbara)	606	61.543437	130.946766	396522	6824866	9	61.5196874	132.944931	396616	6824681	mKp	
605.00	127	U/Pb Zircon	**187.6**	2	2	Igneous Crystallization Age		Mortensen, J.K.	1983	DM-04		Plutonic	Granodiorite unfoliated hornblende-biotite granodiorite	105G	Finlayson Lake	10	A	University of California (Santa Barbara)	605	61.543437	130.946766	396522	6824866	9	61.5196874	132.944931	396616	6824681	mKp	
156.00	105	K/Ar Whole Rock	**189**	22	22	Metamorphic Cooling Age	K/Ar whole-rock method unreliable	Wanless, R.K., Stevens, R.D., Lachance, G.R. and Delabio, R.N.	1979	TO-75-33-2		Volcanic	Felsic Tuff protolith age is Devono-Mississippian	105F	Quiet Lake	10	B	Geological Survey of Canada (Ottawa)- GSC No: 78-101	156	61.998215	132.532885	629206	6826438	8	61.55	132.567	629311	6826263	YUKON TANANA	
1093.00	175	Ar/Ar Whole Rock	**190.4**	1.6	1.6	Reset	Plateau age, 1 step. Excess argon; Further analysis is required, K. Fallas (pers. comm. 2002)	Fallas, K.M., Erdmer, P., Creaser, R.A., Archibald, D.A. and Heaman, L.M.	1999	KF97-006	Cassiar terrane, footwall of St. Cyr clippe	Hydrothermal	phyllite	105F	Quiet Lake	1	B	University of Alberta	1112	61.083108	132.368506	641928	6774898	8	61.0833333	132.366667	642031	6774724	CASSIAR	
357.00	91	K/Ar Muscovite	**201**	7	7	Cooling 375°C		Stevens, R.D., Delabio, R.N. and Lachance, G.R.	1982	TO-76-16-6	Simpson Range Plutonic Suite	Plutonic	Quartz Monzonite strongly foliated hornblende quartz monzonite. Muscovite is likely of metamorphic origin.	105G	Finlayson Lake	1	A	Geological Survey of Canada (Ottawa)- GSC No: 80-84	357	61.124739	130.090383	441259	6777171	9	61.1249167	130.088611	441352	6776987	YUKON TANANA	
354.00	91	K/Ar Muscovite	**226**	8	8	Cooling 375°C		Stevens, R.D., Delabio, R.N. and Lachance, G.R.	1982	TOM-76-35-8c		Metamorphic	Mylonite blastomylonite of McNeil Klippe (Nisutlin Allochthon)	105G	Finlayson Lake	4	A	Geological Survey of Canada (Ottawa)- GSC No: 80-81	354	61.23812	131.733784	353279	6792380	9	61.2383056	131.731944	353372	6792196	YUKON TANANA	
353.00	91	K/Ar Muscovite	**230**	8	8	Cooling 375°C		Stevens, R.D., Delabio, R.N. and Lachance, G.R.	1982	TOM-76-35-9		Metamorphic	Mylonite blastomylonite of McNeil Klippe (Nisutlin Allochthon)	105G	Finlayson Lake	4	A	Geological Survey of Canada (Ottawa)- GSC No: 80-80	353	61.23812	131.733784	353279	6792380	9	61.2383056	131.731944	353372	6792196	YUKON TANANA	
800.00	60	U/Pb Zircon	**274.3**	0.5	0.5	Igneous Crystallization Age		Mortensen, J.K.	1992	GL-10		Plutonic	Plagiogranite block of plagiogranite in serpentinite matrix melange in Finlayson Lake fault zone	105G	Finlayson Lake	14	A	Geological Survey of Canada (Ottawa)	800	61.914718	131.405615	373669	6867020	9	61.9148889	131.403722	373763	6866836	SLIDE MOUNTAIN	
373.00	56	Rb/Sr Whole Rock	**294**	40	40	Geological Error	12-pt. errorchron (MSWD=80). U-Pb zircon age of 365 Ma for the same suite	Mortensen, J.K.	1982	MM-x		Volcanic	Trachyte/syenite variably altered and metamorphosed samples of tuffs, flows and subvolcanic plutons	105F	Quiet Lake	7	B	University of British Columbia	373	61.449768	132.668549	624293	6815108	8	61.45	132.66667	624397	6814934	CASSIAR	
373.00	56	Rb/Sr Whole Rock	**304**	38	38	Geological Error	3-pt. errorchron (MSWD=17). U-Pb zircon age for same suite is 365 Ma	Mortensen, J.K.	1982	MM-x		Volcanic	Trachyte/syenite variably altered and metamorphosed samples of tuffs, flows and subvolcanic plutons	105F	Quiet Lake	7	B	University of British Columbia	790	61.449768	132.668549	624293	6815108	8	61.45	132.66667	624397	6814934	CASSIAR	
357.00	91	K/Ar Hornblende	**316**	18	18	Cooling 500°C		Stevens, R.D., Delabio, R.N. and Lachance, G.R.	1982	TO-76-16-6	Simpson Range Plutonic Suite	Plutonic	Quartz Monzonite strongly foliated hornblende quartz monzonite. Muscovite is likely of metamorphic origin.	105G	Finlayson Lake	1	A	Geological Survey of Canada (Ottawa)- GSC No: 80-84	358	61.124739	130.090383	441259	6777171	9	61.1249167	130.088611	441352	6776987	YUKON TANANA	
371.00	9	K/Ar Phlogopite	**326**	20	20	Age of Alteration		Chronic, F.J.	1979	C77GU-P6C		Hydrothermal	Skarn skarn developed in Silurian carbonate adjacent to Mississippian syenite	105F	Quiet Lake	8	A	University of British Columbia	371	61.496998	132.412984	637704	6820880	8	61.49722	132.41111	637808	6820706	CASSIAR	
754.00	9	Rb/Sr Wr-mineral	**333**	20	20	Mineralization Age		Chronic, F.J.	1979	not reported2		Hydrothermal	Skarn wr-calcite-phlogopite skarn on Guano-Guayes property at contact of Mississippian syenite stock	105F	Quiet Lake	8	B	University of British Columbia	754	61.496998	132.412984	637704	6820880	8	61.49722	132.41111	637808	6820706	CASSIAR	
599.00	127	Rb/Sr Whole Rock	**342**	0	0	Igneous Crystallization Age		Mortensen, J.K.	1983	AG-06_AG-08	Mink Creek orthogneiss	Plutonic	Augen Orthogneiss strongly foliated granitic augen orthogneiss	105G	Finlayson Lake	12	B	University of British Columbia	599	61.621459	131.548533	364886	6834656	9	61.6216667	131.546667	364980	6834472	YUKON TANANA	
367.00	127	U/Pb Zircon	**342**	7.1	7.1	Igneous Crystallization Age		Mortensen, J.K.	1983	AG-48	Hoole River orthogneiss	Plutonic	Augen Orthogneiss strongly foliated granitic augen orthogneiss	105G	Finlayson Lake	7	A	Geological Survey of Canada (Ottawa)	367	61.259799	130.928461	396561	6793252	9	61.26	130.926639	396654	6793068	YUKON TANANA	
590.00	127	U/Pb Zircon	**343**	0	0	Igneous Crystallization Age		Mortensen, J.K.	1983	AG-06	Mink Creek orthogneiss	Plutonic	Augen Orthogneiss strongly foliated granitic augen orthogneiss	105G	Finlayson Lake	12	B	University of California (Santa Barbara)	590	61.623423	131.57081	363714	6834921	9	61.6236111	131.568944	363808	6834737	YUKON TANANA	
382.00	29	K/Ar Hornblende	**344**	19	19	Cooling 500°C		Hunt, P.A. and Roddick, J.C.	1987	TOE80-28-3	Simpson Range Plutonic Suite	Plutonic	Quartz Diorite hornblende quartz diorite in Money Klippe	105G	Finlayson Lake	1	A	Geological Survey of Canada (Ottawa)- GSC No: 87-159	382	61.218134	130.403699	424605	6787894	9	61.2183056	130.401917	424698	6787710	YUKON TANANA	
1098.00	176	U/Pb Zircon	**345**	0	0	Igneous Crystallization Age	Single slightly discordant fraction.	Grant, S.L.	1997	SG94-1	Simpson Range plutonic suite	Plutonic	gabbro	105G	Finlayson Lake	1	B	University of Alberta	1118	61.204239	130.429006	423212	6786376	9	61.20444	130.42722	423305	6786192	YUKON TANANA	
1095.00	176	U/Pb Zircon	**345.2**	1.9	1.9	Igneous Crystallization Age	3 discordant fractions, age is lower intercept of regression through all.	Grant, S.L.	1997	SG94-14	Simpson Range plutonic suite	Plutonic	hornblende granodiorite	105G	Finlayson Lake	1	A	University of Alberta	1115	61.20591	130.403173	424604	6786532	9	61.20611	130.40139	424697	6786348	YUKON TANANA	
1094.00	176	U/Pb Zircon	**345.9**	1.2	1.2	Igneous Crystallization Age	2 discordant overlapping fractions, age is weighted average of the two.	Grant, S.L.	1997	SG94-2	Simpson Range plutonic suite	Plutonic	biotite monzogranite	105G	Finlayson Lake	1	A	University of Alberta	1114	61.202578	130.429006	423208	6786191	9	61.20278	130.42722	423301	6786007	YUKON TANANA	
1107.00	168	U/Pb Zircon	**346**	2.2	2.2	Igneous Crystallization Age	7 fractions, age is total range of two concordant fractions.	Piercey, S.J.	2001	P98-69A	Fisher porphyry, Wolverine deposit footwall	Plutonic	feldspar-porphyritic intrusion	105G	Finlayson Lake	8	A	University of British Columbia	1140	61.480987	130.242156	433838	6816994	9	61.4811667	130.240361	433931	6816809	YUKON TANANA	
586.00	127	U/Pb Zircon	**348.4**	0.7	0.7	Igneous Crystallization Age		Mortensen, J.K.	1983	SA-02	Simpson Range Plutonic Suite	Plutonic	Granodiorite massive hornblende-biotite granodiorite	105G	Finlayson Lake	8	A	Geological Survey of Canada (Ottawa)	586	61.251441	130.377001	426117	6791573	9	61.2516389	130.375194	426210	6791389	YUKON TANANA	
589.00	127	U/Pb Zircon	**349.1**	3.6	3.6	Igneous Crystallization Age		Mortensen, J.K.	1983	SA-28	Simpson Range Plutonic Suite	Plutonic	Quartz Monzonite massive, altered hornblende-biotite quartz monzonite	105G	Finlayson Lake	1	A	University of California (Santa Barbara)	589	61.198133	130.352009	427335	6785608	9	61.1983056	130.350222	427428	6785424	YUKON TANANA	
587.00	127	U/Pb Zircon	**350**	0	0	Igneous Crystallization Age		Mortensen, J.K.	1983	SA-03	Simpson Range Plutonic Suite	Plutonic	Quartz Monzonite massive hornblende-biotite quartz monzonite	105G	Finlayson Lake	1	B	Geological Survey of Canada (Ottawa)	587	61.191436	130.420389	423644	6784940	9	61.1916111	130.418583	423737	6784756	YUKON TANANA	
1092.00	175	U/Pb Zircon	**350.4**	2.6	2.6	Igneous Crystallization Age	5 discordant fractions; age is upper intercept of regression through all five. Further analysis is required, K. Fallas (pers. comm. 2002)	Fallas, K.M., Erdmer, P., Creaser, R.A., Archibald, D.A. and Heaman, L.M.	1999	KF97-072	Indian Mountain assemblage, St. Cyr klippe	Plutonic	tonalite	105F	Quiet Lake	2	B	University of Alberta	1113	61.199777	132.668553	625287	6787274	8	61.2	132.66667	625390	6787100	SLIDE MOUNTAIN	
580.00	127	U/Pb Zircon	**351.4**	1.7	1.7	Igneous Crystallization Age		Mortensen, J.K.	1983	FV-49		Volcanic	Quartz-muscovite Schist felsic metavolcanic; likely a metatuff	105G	Finlayson Lake	7	A	Geological Survey of Canada (Ottawa)	580	61.4464	130.641167	412491	6813612	9	61.4465556	130.639361	412584	6813427	YUKON TANANA	
578.00	127	U/Pb Zircon	**356**	1	1	Igneous Crystallization Age		Mortensen, J.K.	1983	FV-21		Volcanic	Quartz-muscovite Schist felsic metavolcanic; likely a metatuff	105G	Finlayson Lake	8	A	Geological Survey of Canada (Ottawa)	578	61.423246	130.192014	436391	6810513	9	61.4234167	130.190222	436484	6810328	YUKON TANANA	

labno	refno	age_method	age	err_plus	err_minus	age_interp	age_note	authors	year	sampleno	geolunit	rocktype	rockdesc	NTSRef	MapName	nts50	rel_rating	laboratory	Text97	lat83	long83	easting83	northing83	utm zone	lat27	long27	easting27	northing27	Map unit	
592.00	127	U/Pb Zircon	**356**	2	2	Igneous Crystallization Age		Mortensen, J.K.	1983	ARG-32	Simpson Range Plutonic Suite	Plutonic	Plagiogranite plagiogranite zone in massive gabbro thought to be related to the Simpson Range Plutonic Suite	105G	Finlayson Lake	1	A	Geological Survey of Canada (Ottawa)	592	61.201436	130.412	424119	6786044	9	61.2016111	130.410194	424212	6785860	YUKON TANANA	
1097.00	176	U/Pb Zircon	**356.5**	3.4	4	Igneous Crystallization Age	2 discordant fractions; Age is lower intercept of regression through both fractions.	Grant, S.L.	1997	SG94-11	Simpson Range plutonic suite	Plutonic	quartz-porphyry volcanic	105G	Finlayson Lake	8	A	University of Alberta	1117	61.265633	130.38096	425938	6793158	9	61.26583	130.37917	426031	6792974	YUKON TANANA	
1108.00	168	U/Pb Zircon	**356.9**	5.3	5.3	Igneous Crystallization Age	6 pt linear regression, age is upper intercept (MSWD=4.11)	Piercey, S.J.	2001	P98-KZK2	Kudz Ze Kayah deposit - footwall	Plutonic	quartz-feldspar porphyritic intrusion	105G	Finlayson Lake	7	A	University of British Columbia	1141	61.458312	130.620421	413630	6814911	9	61.4585	130.451944	413723	6814726	YUKON TANANA	
1096.00	176	U/Pb Zircon	**357**	21.2	17.2	Igneous Crystallization Age	3 discordant fractions, age is upper intercept of linear array through all three.	Grant, S.L.	1997	SG94-55	Simpson Range plutonic suite	Plutonic	sheared granodiorite	105G	Finlayson Lake	1	A	University of Alberta	1116	61.177015	130.397073	424863	6783307	9	61.17722	130.39528	424956	6783123	YUKON TANANA	
577.00	127	U/Pb Zircon	**359.8**	9	9	Igneous Crystallization Age		Mortensen, J.K.	1983	FV-16		Plutonic	Augen Schist strongly foliated quartz-feldspar augen schist; likely derived from a subvolcanic sill	105G	Finlayson Lake	8	A	Geological Survey of Canada (Ottawa)	577	61.278145	130.161997	437705	6794323	9	61.2783056	130.160194	437798	6794138	YUKON TANANA	
952.00	127	U/Pb Zircon	**360**	0	0	Igneous Crystallization Age		Mortensen, J.K.	1983	GM-12		Plutonic	Augen Schist moderately foliated quartz-feldspar metaporphyry; likely a subvolcanic stock	105G	Finlayson Lake	12	B	Geological Survey of Canada (Ottawa)	952	61.528123	131.532396	365337	6824231	9	61.5283056	131.530528	365431	6824047	YUKON TANANA	
755.00	127	U/Pb Zircon	**360**	1	1	Igneous Crystallization Age		Mortensen, J.K.	1983	GG-19		Plutonic	Granitic Orthogneiss strongly foliated orthogneiss of quartz monzonitic composition	105G	Finlayson Lake	8	A	Geological Survey of Canada (Ottawa)	755	61.366271	130.395646	425390	6804383	9	61.3664444	130.393833	425483	6804198	YUKON TANANA	
582.00	127	U/Pb Zircon	**360**	0	0	Igneous Crystallization Age		Mortensen, J.K.	1983	AS-50		Plutonic	Augen Schist weakly foliated quartz-feldspar metaporphyry; likely a subvolcanic dome	105G	Finlayson Lake	8	B	Geological Survey of Canada (Ottawa)	582	61.483248	130.235411	434202	6817239	9	61.4834167	130.233611	434295	6817054	YUKON TANANA	
581.00	127	U/Pb Zircon	**360**	0	0	Igneous Crystallization Age		Mortensen, J.K.	1983	GM-11		Volcanic	Quartz-muscovite Schist felsic metavolcanic; likely a metatuff	105G	Finlayson Lake	11	B	Geological Survey of Canada (Ottawa)	581	61.514728	131.320485	376549	6822320	9	61.5149167	131.318639	376643	6822135	YUKON TANANA	
602.00	127	U/Pb Zircon	**360**	0	0	Igneous Crystallization Age	Estimated from discordant analyses.	Mortensen, J.K.	1983	GG-20		Plutonic	Granitic Orthogneiss strongly foliated orthogneiss of quartz monzonitic composition	105G	Finlayson Lake	8	B	Geological Survey of Canada (Ottawa)	602	61.441446	130.28572	431431	6812635	9	61.4416111	130.283917	431524	6812450	YUKON TANANA	
801.00	62	U/Pb Zircon	**360.5**	1.9	1.9	Igneous Crystallization Age		Mortensen, J.K.	1992	QP-30		Plutonic	Quartz-feldspar Porphyry quartz-feldspar porphyry phase of a composite high-level volcanic plug intruding Slide Mountain Terrane greenstone	105G	Finlayson Lake	8	A	Geological Survey of Canada (Ottawa)	801	61.258913	130.413553	424174	6792447	9	61.2590833	130.41175	424267	6792263	YUKON TANANA	
579.00	127	U/Pb Zircon	**360.8**	0.8	0.8	Igneous Crystallization Age		Mortensen, J.K.	1983	FV-27		Volcanic	Quartz-muscovite Schist felsic metavolcanic; likely a metatuff	105G	Finlayson Lake	1	A	Geological Survey of Canada (Ottawa)	579	61.198136	130.170381	437096	6785420	9	61.1983056	130.168583	437189	6785236	YUKON TANANA	
791.00	117	U/Pb Zircon	**362.7**	3.6	3.6	Igneous Crystallization Age		Mortensen, J.K. and Gordey, S.P.	1987	GGA-86-77A3		Plutonic	Quartz Syenite subvolcanic pluton associated with widespread alkaline flows and tuffs which host massive sulphide deposits	105F	Quiet Lake	9	A	Geological Survey of Canada (Ottawa)	791	61.502419	132.465315	634896	6821374	8	61.50264	132.46344	635000	6821200	CASSIAR	
593.00	127	U/Pb Zircon	**364.5**	2.5	2.5	Igneous Crystallization Age		Mortensen, J.K.	1983	HD-35	Simpson Range Plutonic Suite	Plutonic	Hornblende-biotite Diorite massive diorite stock thought to be related to the Simpson Range Plutonic Suite	105G	Finlayson Lake	7	A	Geological Survey of Canada (Ottawa)	593	61.408717	130.591734	415024	6809350	9	61.4088889	130.589917	415117	6809165	YUKON TANANA