

APPENDIX 6D

GEOLOGICAL SURVEY OF CANADA

Banks Island samples - EPMA chemistry: SPINEL - ALUMINIUM-SERIES

GSC Sample #	Mount	Grain #	EPMA #	ODM Min ID	EPMA Min ID	Grain Size	WT %														Total			
							SiO2	TiO2	Al2O3	Cr2O3	MnO	FeO	MgO	CaO	Na2O	K2O	Nb2O5	NiO	ZnO	V2O3		P2O5		
15SUV004	2015_3	3_9	3-3_009	spinel	spinel	0.25-0.5	0.00	0.03	69.05	0.00	0.05	4.87	24.74	0.00	0.00	0.00								98.74
15SUV028	2015_3	3_10	3-3_010	spinel	spinel	0.25-0.5	0.00	0.00	69.42	0.08	0.07	6.29	24.47	0.00	0.00	0.00								100.33
15SUV003	2015_3	4_1	3-4_001	hercynite	spinel	0.5-1.0	0.09	0.63	59.37	0.11	0.14	21.79	17.56	0.00	0.00	0.00								99.69
15SUV003	2015_3	4_2	3-4_002	hercynite	spinel	0.5-1.0	0.08	0.55	60.28	1.09	0.12	19.46	18.48	0.00	0.00	0.00								100.06
15SUV014	2015_3	4_4	3-4_004	hercynite	spinel	0.25-0.5	0.00	0.12	61.63	4.93	0.09	11.46	20.91	0.00	0.00	0.00								99.14
15SUV014	2015_3	4_5	3-4_005	hercynite	spinel	0.25-0.5	0.07	0.73	57.10	0.11	0.17	24.40	16.95	0.00	0.00	0.00								99.53
15SUV020	2015_3	4_6	3-4_006	hercynite	spinel	0.5-1.0	0.05	0.43	60.43	0.33	0.15	20.14	18.40	0.00	0.00	0.00								99.93
15SUV020	2015_3	4_7	3-4_007	hercynite	spinel	0.5-1.0	0.00	0.34	59.08	2.44	0.14	19.21	18.18	0.00	0.00	0.00								99.39
15SUV025	2015_3	4_8	3-4_008	hercynite	spinel	0.25-0.5	0.08	0.59	59.93	0.59	0.11	20.04	18.38	0.00	0.00	0.00								99.72
15SUV026	2015_3	4_9	3-4_009	hercynite	spinel	0.5-1.0	0.04	0.21	59.34	7.66	0.09	10.24	21.54	0.00	0.00	0.00								99.12
15SUV051	2015_3	4_10	3-4_010	hercynite	spinel	0.5-1.0	0.11	0.52	59.46	0.12	0.15	21.26	18.14	0.00	0.00	0.00								99.76
15SUV003	2015_5	2_9	5-2_009	chromite, euhedral	spinel	0.25-0.5	0.00	0.81	37.51	26.74	0.18	15.95	17.94	0.00	0.00	0.00								99.13
15SUV001	2015_6	1_6	6-1_006	chromite	spinel	0.25-0.5	0.00	0.21	50.77	16.48	0.11	11.22	20.30	0.01	0.00	0.00								99.10
15SUV001	2015_6	1_7	6-1_007	chromite	spinel	0.25-0.5	0.00	0.36	40.76	23.99	0.14	15.58	18.18	0.00	0.00	0.00								99.01
15SUV002	2015_6	2_4	6-2_004	chromite	spinel	0.25-0.5	0.00	0.22	47.97	19.38	0.11	11.36	19.90	0.00	0.00	0.00								98.94
15SUV003	2015_6	2_10	6-2_010	chromite	spinel	0.5-1.0	0.00	0.05	57.63	9.67	0.11	11.19	20.45	0.00	0.00	0.00								99.10
15SUV003	2015_6	3_6	6-3_006	chromite	spinel	0.25-0.5	0.00	0.00	50.84	16.94	0.12	11.18	20.18	0.00	0.00	0.00								99.26
15SUV020	2015_7	2_6	7-2_006	chromite	spinel	0.25-0.5	0.06	0.32	56.50	10.02	0.09	11.04	21.04	0.01	0.00	0.00								99.08
15SUV020	2015_7	3_1	7-3_001	chromite	spinel	0.25-0.5	0.00	0.14	42.41	24.96	0.14	12.89	18.45	0.00	0.00	0.00								98.99
15SUV020	2015_7	3_2	7-3_002	chromite	spinel	0.25-0.5	0.00	0.08	50.71	16.38	0.12	11.75	19.85	0.00	0.00	0.00								98.89
15SUV020	2015_7	3_5	7-3_005	chromite	spinel	0.25-0.5	0.00	0.38	46.16	16.25	0.16	18.54	17.22	0.01	0.00	0.00								98.72
15SUV024	2015_7	4_1	7-4_001	chromite	spinel	0.25-0.5	0.00	0.92	33.90	28.52	0.18	18.82	16.14	0.00	0.00	0.00								98.48
16SUV024	Mount1_057	1_6_4	277	gahnite	gahnite	0.25-0.5	0.00	0.00	59.80	0.00	0.44	11.89	4.30	0.00	0.00	0.00	0.00	0.00	25.18	0.00	0.00	0.00	0.00	101.61
16SUV024	Mount1_058	1_6_5	278	gahnite	gahnite	0.25-0.5	0.00	0.00	58.61	0.00	0.27	6.52	3.62	0.00	0.00	0.00	0.00	0.00	32.56	0.00	0.00	0.00	0.00	101.59
16SUV024	Mount1_059	1_6_6	279	gahnite	gahnite	0.25-0.5	0.00	0.00	57.85	0.09	0.30	7.77	2.61	0.00	0.00	0.00	0.00	0.00	32.91	0.11	0.00	0.00	0.00	101.64
16SUV024	Mount1_060	1_6_7	280	gahnite	gahnite	0.25-0.5	0.00	0.00	59.14	0.00	0.04	16.43	3.97	0.00	0.00	0.00	0.00	0.03	21.28	0.03	0.00	0.00	0.00	100.92
16SUV024	Mount1_061	1_6_8	281	gahnite	gahnite	0.25-0.5	0.03	0.00	53.82	0.10	0.13	16.91	2.72	0.01	0.00	0.01	0.00	0.00	21.30	0.03	0.00	0.00	0.00	95.06
16SUV013	Mount1_062	1_6_9	282	spinel	spinel	0.25-0.5	0.00	0.00	68.65	0.07	0.12	6.93	24.10	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	99.96
16SUV023	Mount1_063	1_6_10	283	spinel	spinel	0.25-0.5	0.00	0.05	69.78	0.04	0.09	4.30	25.84	0.00	0.00	0.00	0.00	0.00	0.27	0.03	0.00	0.00	0.00	100.40
16SUV028	Mount1_064	1_6_11	284	spinel	spinel	0.25-0.5	0.00	0.04	70.39	0.03	0.03	3.41	26.00	0.01	0.00	0.00	0.00	0.02	0.00	0.04	0.00	0.00	0.00	99.98
16SUV018	Mount1_067	1_7_2	287	hercynite	gahnite	0.25-0.5	0.00	0.00	61.62	0.00	0.16	16.05	7.88	0.00	0.00	0.00	0.00	0.00	15.28	0.00	0.00	0.00	0.00	100.98
16SUV018	Mount1_068	1_7_3	288	hercynite	spinel/hercynite	0.25-0.5	0.09	0.54	59.31	0.04	0.14	21.46	18.40	0.00	0.00	0.00	0.00	0.10	0.07	0.08	0.00	0.00	0.00	100.23
16SUV018	Mount1_069	1_7_4	289	hercynite	spinel/hercynite	0.25-0.5	0.03	0.28	58.12	0.00	0.23	28.76	12.35	0.00	0.00	0.00	0.00	0.02	0.17	0.08	0.00	0.00	0.00	100.05
16SUV023	Mount1_071	1_7_6	291	hercynite	spinel/hercynite	0.25-0.5	0.12	0.18	61.76	0.00	0.13	19.19	18.17	0.01	0.00	0.00	0.00	0.24	0.09	0.07	0.00	0.00	0.00	99.95
16SUV023	Mount1_072	1_7_7	292	hercynite	spinel/hercynite	0.25-0.5	0.05	0.34	60.45	0.18	0.16	22.99	15.91	0.00	0.00	0.00	0.00	0.05	0.09	0.08	0.00	0.00	0.00	100.31
16SUV023	Mount1_073	1_7_8	293	hercynite	spinel/hercynite	0.25-0.5	0.13	0.93	58.02	0.00	0.14	22.99	17.22	0.00	0.00	0.00	0.00	0.11	0.15	0.13	0.00	0.00	0.00	99.81
16SUV027	Mount1_074	1_7_9	294	hercynite	spinel/hercynite	0.5-1.0	0.08	0.69	58.97	0.51	0.12	20.92	18.09	0.00	0.00	0.00	0.00	0.13	0.10	0.12	0.00	0.00	0.00	99.72
16SUV027	Mount1_075	1_7_10	295	hercynite	spinel/hercynite	0.25-0.5	0.07	0.32	60.03	1.06	0.15	19.41	18.75	0.00	0.00	0.00	0.00	0.15	0.11	0.05	0.00	0.00	0.00	100.10
16SUV023	Mount3_029	3_2_15	155	GP	spinel	0.18-0.25	0.04	0.07	69.58	0.08	0.00	3.67	26.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	99.60