

APPENDIX 6I

GEOLOGICAL SURVEY OF CANADA  
Banks Island samples - EPMA chemistry: VESUVIANITE

							WT %															
GSC Sample #	Mount	Grain #	EPMA Sample #	ODM Min ID	EPMA Min ID	Grain Size	SiO2	TiO2	Al2O3	Cr2O3	MnO	FeO	MgO	CaO	Na2O	K2O	Nb2O5	NiO	ZnO	V2O3	P2O5	Total
15SUV001	Mount2_081	2_8_1	185	vesuvianite	garnet	0.25-0.5	39.73	0.29	18.94	0.00	0.14	4.17	0.84	36.76	0.00	0.00	0.00	0.00	0.00	0.00	0.04	100.91
15SUV001	Mount2_082	2_8_2	186	vesuvianite	garnet	0.25-0.5	39.60	0.52	18.06	0.00	0.20	5.05	0.77	36.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.75
15SUV001	Mount2_083	2_8_3	187	vesuvianite	vesuvianite	0.25-0.5	37.12	0.70	17.13	0.00	0.02	1.51	3.99	36.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	96.96
15SUV001	Mount2_084	2_8_4	188	vesuvianite	garnet	0.25-0.5	39.08	0.34	16.52	0.00	0.10	7.27	0.57	36.08	0.00	0.00	0.00	0.00	0.00	0.04	0.00	100.00
15SUV001	Mount2_085	2_8_5	189	vesuvianite	garnet	0.25-0.5	39.60	0.35	18.85	0.00	0.08	4.27	0.63	36.48	0.00	0.00	0.00	0.00	0.00	0.03	0.00	100.28
15SUV001	Mount2_086	2_8_6	190	vesuvianite	garnet	0.25-0.5	39.34	0.04	17.80	0.00	0.27	6.03	0.71	35.94	0.02	0.00	0.00	0.00	0.00	0.00	0.03	100.17
15SVU002	Mount2_087	2_8_8	191	vesuvianite	garnet	0.5-1.0	38.76	0.24	13.97	0.00	0.12	10.00	0.60	35.94	0.02	0.01	0.00	0.00	0.00	0.09	0.05	99.79
15SVU002	Mount2_088	2_8_9	192	vesuvianite	garnet	0.5-1.0	38.10	2.14	15.05	0.05	0.06	7.42	0.80	36.32	0.02	0.00	0.00	0.00	0.00	0.04	0.00	99.98
15SVU002	Mount2_089	2_8_10	193	vesuvianite	garnet	0.5-1.0	39.31	0.78	17.33	0.00	0.05	5.55	0.83	36.43	0.00	0.01	0.00	0.00	0.00	0.04	0.04	100.35
15SVU002	Mount2_090	2_8_11	194	vesuvianite	garnet	0.5-1.0	39.25	0.67	16.68	0.00	0.03	6.10	0.81	36.80	0.02	0.01	0.00	0.00	0.00	0.00	0.04	100.42
15SVU002rpt	Mount2_090rim	2_8_11	195	vesuvianite	andradite	0.5-1.0	35.19	0.07	2.64	0.00	0.07	23.79	0.60	34.61	0.00	0.00	0.00	0.00	0.00	0.00	0.04	97.02
15SUV003	Mount2_091	2_9_1	196	vesuvianite	garnet	0.25-0.5	39.41	0.22	17.14	0.00	0.06	6.16	0.65	36.84	0.00	0.00	0.00	0.00	0.00	0.03	0.04	100.54
15SUV003rpt	Mount2_092	2_9_1	197	vesuvianite	garnet	0.25-0.5	39.15	0.09	17.33	0.00	0.04	6.06	0.62	36.52	0.00	0.00	0.00	0.00	0.00	0.00	0.03	99.83
15SUV003	Mount2_093	2_9_2	198	vesuvianite	garnet	0.25-0.5	39.72	0.19	19.19	0.00	0.11	3.90	0.81	36.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.35
15SUV003	Mount2_094	2_9_3	199	vesuvianite	garnet	0.25-0.5	38.71	1.40	15.92	0.00	0.14	6.90	0.70	36.25	0.03	0.00	0.00	0.00	0.00	0.05	0.00	100.09
15SUV003	Mount2_095	2_9_4	200	vesuvianite	garnet	0.25-0.5	39.19	0.13	17.16	0.00	0.12	6.66	0.74	36.00	0.00	0.01	0.00	0.00	0.00	0.04	0.00	100.04
15SUV003	Mount2_096	2_9_5	201	vesuvianite	garnet	0.25-0.5	39.00	0.72	16.67	0.00	0.05	6.17	0.63	36.60	0.00	0.01	0.00	0.00	0.00	0.04	0.04	99.92
15SUV005	Mount2_097	2_9_6	202	vesuvianite	garnet	0.25-0.5	40.00	0.33	21.82	0.00	0.08	0.54	0.56	37.14	0.02	0.00	0.00	0.00	0.00	0.53	0.00	101.03
15SUV010	Mount2_098	2_9_7	203	vesuvianite	garnet	0.5-1.0	39.76	0.19	20.65	0.00	0.09	2.52	0.19	36.99	0.02	0.01	0.00	0.00	0.00	0.00	0.00	100.42
15SUV010	Mount2_099	2_9_8	204	vesuvianite	garnet	0.5-1.0	39.04	0.32	16.69	0.00	0.11	6.91	0.58	36.27	0.00	0.01	0.00	0.00	0.00	0.00	0.03	99.96
15SUV010rpt	Mount2_100	2_9_8	205	vesuvianite	andradite	0.5-1.0	37.56	0.75	9.50	0.03	0.05	15.32	0.44	35.34	0.00	0.00	0.00	0.00	0.00	0.04	0.04	99.07
15SUV010	Mount2_101	2_9_9	206	vesuvianite	garnet	0.5-1.0	39.88	0.25	20.04	0.03	0.07	2.88	0.73	37.09	0.00	0.01	0.00	0.00	0.00	0.04	0.00	101.01
15SUV010	Mount2_102	2_9_10	207	vesuvianite	garnet	0.5-1.0	38.89	0.49	15.95	0.04	0.10	7.66	0.71	36.21	0.00	0.00	0.00	0.00	0.00	0.07	0.00	100.13
15SUV010	Mount2_103	2_9_11	208	vesuvianite	garnet	0.5-1.0	38.83	1.17	16.60	0.00	0.12	5.98	0.86	36.28	0.00	0.00	0.00	0.00	0.00	0.07	0.00	99.91
15SUV010	Mount2_104	2_9_12	209	vesuvianite	garnet	0.25-0.5	38.99	0.06	15.15	0.00	0.03	8.98	0.45	36.47	0.00	0.01	0.00	0.00	0.00	0.03	0.00	100.17
15SUV010	Mount2_105	2_9_13	210	vesuvianite	andradite	0.25-0.5	35.99	0.00	2.67	0.04	0.00	24.61	0.24	34.55	0.00	0.00	0.00	0.00	0.00	0.00	0.03	98.13
15SUV014	Mount2_106	2_9_14	211	vesuvianite	garnet	0.25-0.5	39.49	0.24	18.00	0.00	0.06	5.42	0.60	36.65	0.02	0.00	0.00	0.00	0.00	0.00	0.00	100.49
15SUV015	Mount2_107	2_10_1	212	vesuvianite	vesuvianite	0.25-0.5	37.19	0.00	17.33	0.00	0.00	2.82	2.38	36.27	0.04	0.01	0.00	0.15	0.00	0.00	0.03	96.22
15SUV021	Mount2_108	2_10_2	213	vesuvianite	andradite	0.25-0.5	35.03	0.00	0.00	0.00	0.03	28.13	0.08	33.96	0.00	0.00	0.00	0.03	0.00	0.00	0.00	97.27
15SUV021rpt	Mount2_109	2_10_2	214	vesuvianite	garnet	0.25-0.5	37.03	1.09	14.43	0.06	0.18	9.14	0.14	36.11	0.00	0.00	0.00	0.02	0.00	0.00	0.00	98.20
15SUV024	Mount2_110	2_10_3	215	vesuvianite	garnet	0.25-0.5	38.65	0.39	13.91	0.00	0.07	10.04	0.56	36.11	0.00	0.00	0.00	0.00	0.00	0.03	0.03	99.78
15SUV024	Mount2_111	2_10_4	216	vesuvianite	andradite	0.25-0.5	36.63	0.00	8.42	0.00	0.04	17.71	0.11	35.71	0.00	0.00	0.00	0.00	0.00	0.06	0.00	98.67
15SUV024rpt	Mount2_112	2_10_4	217	vesuvianite	garnet	0.25-0.5	38.93	0.03	16.37	0.00	0.06	7.85	0.09	36.47	0.02	0.01	0.00	0.00	0.00	0.08	0.00	99.92
15SUV024	Mount2_113	2_10_5	218	vesuvianite	garnet	0.25-0.5	40.13	0.60	15.48	0.00	0.09	6.81	1.88	35.54	0.02	0.00	0.00	0.00	0.00	0.04	0.03	100.63
15SUV024	Mount2_114	2_10_6	219	vesuvianite	talcl?	0.25-0.5	40.12	0.02	0.39	0.00	0.10	1.90	25.81	0.05	0.06	0.04	0.00	0.00	0.00	0.00	0.05	68.55
15SUV024rpt	Mount2_115	2_10_6	220	vesuvianite	vesuvianite	0.25-0.5	36.93	0.08	16.75	0.00	0.02	2.42	4.00	36.30	0.02	0.01	0.00	0.00	0.00	0.00	0.00	96.52
15SUV026	Mount2_116	2_10_7	221	vesuvianite	garnet	0.5-1.0	39.25	0.22	17.25	0.00	0.26	6.20	1.05	35.93	0.00	0.00	0.00	0.00	0.00	0.05	0.03	100.23
15SUV027	Mount2_117	2_10_8	222	vesuvianite	garnet	0.5-1.0	37.77	1.09	12.57	0.00	0.10	11.32	0.64	35.99	0.00	0.00	0.00	0.00	0.00	0.04	0.03	99.55
15SUV050	Mount2_118	2_10_9	223	vesuvianite	garnet	0.25-0.5	39.71	0.10	19.78	0.04	0.04	4.10	0.25	36.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.50
15SUV050	Mount2_119	2_10_10	224	vesuvianite	vesuvianite	0.25-0.5	32.38	0.11	21.11	0.00	0.12	2.23	0.36	38.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	94.91
15SUV050rpt	Mount2_120	2_10_10	225	vesuvianite	vesuvianite	0.25-0.5	31.83	0.00	21.40	0.00	0.18	1.62	0.64	38.09	0.00	0.19	0.00	0.00	0.00	0.00	0.00	93.96
15SUV050	Mount2_121	2_10_11	226	vesuvianite	garnet	0.25-0.5	38.46	0.40	20.83	0.00	0.28	2.35	0.10	37.50	0.00	0.01	0.00	0.00	0.00	0.00	0.02	99.96
15SUV050rpt	Mount2_122	2_10_11	227	vesuvianite	garnet	0.25-0.5	38.55	0.82	17.34	0.00	0.07	5.70	0.17	36.69	0.02	0.01	0.00	0.00	0.00	0.05	0.00	99.43
15SUV050rpt	Mount2_123	2_10_11	228	vesuvianite	K-feldspar	0.25-0.5	63.04	0.00	18.48	0.00	0.00	0.04	0.00	0.69	0.17	17.44	0.00	0.00	0.00	0.00	0.00	99.85
15SUV050	Mount2_124	2_10_12	229	vesuvianite	garnet	0.25-0.5	39.07	0.37	16.31	0.00	0.05	6.85	0.66	36.38	0.00	0.00	0.00	0.00	0.00	0.04	0.04	99.78
16SUV013	Mount2_125	2_10_13	230	vesuvianite	garnet	0.25-0.5	39.43	0.34	18.81	0.00	0.17	4.23	0.63	36.49	0.02	0.01	0.00	0.00	0.00	0.06	0.04	100.23
16SUV013rpt	Mount2_126	2_10_13	231	vesuvianite	clinopyroxene	0.25-0.5	53.11	0.21	1.05	0.00	0.07	3.84	15.70	25.57	0.22	0.01	0.00	0.00	0.00	0.00	0.12	99.90
16SUV013	Mount2_127	2_10_14	232	vesuvianite	vesuvianite	0.25-0.5	36.39	0.60	17.68	0.00	0.00	0.20	3.89	37.09	0.02	0.01	0.00	0.00	0.00	0.04	0.03	95.94