

APPENDIX 7A

GEOLOGICAL SURVEY OF CANADA

Banks Island samples - LA-ICPMS rare earth element (REE) chemistry (ppm); GARNET

Sample #	Mount	EPMA #	ODM ID	EPMA ID	Garnet																	Ni-in-garnet (°C) ⁴ Ryan et al., 1996	Ni-in-garnet(°C) ⁴ Griffin et al., 1989	Ni-in-garnet (°C) ⁵ Canil, 1999	Ni-in-garnet(°C) ⁶ Avg. (Griffin + Canil)									
					class ¹	Grain Size	Ca	Tj_m47	Tj_m49	Ni	Sr	Y	Zr	Nb	Ba	La	Ce	Pr	Nd	Sm	Eu					Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf
Gar15SU001row3grain1 - 1	2015_1	1-3_001	andradite	garnet	G9	0.25-0.5	263400	20900	20910	0.77	29.1	10.29	95.5	67.2	21.34	161.4	32.7	167.3	21.44	4.47	8.78	0.737	3	4.043	0.779	0.0856	0.511	0.0781	1.761	369.92				
Gar15SU001row3grain1 - 2	2015_1	1-3_001_rpt	andradite	garnet	G9	0.25-0.5	260500	20600	20530	0.85	28.06	10.24	96.4	65.3	20.5	154.6	31.38	160.8	21.17	4.4	8.84	0.73	2.89	0.394	0.76	0.0896	0.505	0.0783	1.701	377.74				
Gar15SU001row3grain2 - 1	2015_1	1-3_002	andradite	garnet	G9	0.25-0.5	251000	56600	56400	13.78	18.4	161.7	136.7	47.3	5.91	4.71	65.5	17.58	105	27.8	5.34	30.2	4.49	30.2	6.03	15.93	2.24	13.4	1.615	1.57	716.89			
Gar15SU001row4grain1 - 1	2015_1	1-4_001	almandine	garnet	G0	0.5-1.0	9860	1020	1037		0.162	2980	5.02	1.07	0.0043	0.025	0.0251	0.859	11.05	0.09	58.7	22.8	21.5	42	150.5	31.7	294	39.3	0.945					
Gar15SU001row4grain1 - 2	2015_1	1-4_001_rpt	almandine	garnet	G0	0.5-1.0	10280	1128	1144		0.166	3170	5.48	1.19	0.0016	0.0193	0.0295	0.867	12.78	0.111	64.8	25.3	24.0	46.1	158.1	31.9	284	35.2	1.05					
Gar15SU001row6grain1 - 1	2015_1	1-6_001	spessartine	garnet	G0	0.25-0.5	3470	853	855		0.439	3730	3.53	0.133		0.0056	0.0127	0.385	3.95	0.0088	31.5	12.91	168	53.2	280	82.3	1055	221	0.287					
Gar15SU001row6grain1 - 2	2015_1	1-6_001_rpt	spessartine	garnet	G0	0.25-0.5	3580	934	945		0.563	4300	4.3	0.181		0.0087	0.0165	0.482	4.64	0.0114	36.2	14.8	194	63.2	343	103.7	1356	291	0.34					
Gar15SU001row6grain1 - 3	2015_1	1-6_001_rpt	spessartine	garnet	G0	0.25-0.5	3280	880	881		0.445	3700	3.99	0.57	0.0012	0.0106	0.0137	0.503	4.11	0.008	32	13.02	165	52.1	272	80.1	1024	214	0.276					
Gar15SU001row6grain1 - 4	2015_1	1-6_001_rpt	spessartine	garnet	G0	0.25-0.5	3630	930	945		0.588	4340	4.55	0.174		0.0104	0.0107	0.538	4.61	0.0135	36.1	14.91	196	63.2	347	106	1382	291	0.364					
Gar15SU001row6grain2 - 1	2015_1	1-6_002	spessartine	garnet	G0	0.25-0.5	4980	852	855		0.773	7830	16.8	5.57	0.0009	0.0072	0.0492	0.2621	1.07	15.1	0.0125	122.6	49.5	552	143.1	632	169	1900	343	1.7				
Gar15SU001row6grain2 - 2	2015_1	1-6_002_rpt	spessartine	garnet	G0	0.25-0.5	5090	690	700		0.227	2970	6.55	41	0.025	0.101	0.0217	0.225	3.05	0.005	40.5	19.8	212	49.3	194	47.8	498	81.6	0.645					
Gar15SU001row6grain2 - 3	2015_1	1-6_002_rpt	spessartine	garnet	G0	0.25-0.5	4750	996	981		0.723	6780	18.1	21.9	0.0501	0.309	0.087	0.99	8.44	0.0136	88.3	40.6	475	127	569	153.7	1760	327	1.69					
Gar15SU003row4grain2 - 1	2015_1	1-4_002	almandine	garnet	G3	0.25-0.5	57500	1045	1055	13.6	0.027	50.7	12.72	0.0034	0.0067	0.117	0.0749	1.285	1.72	0.762	4.23	1.027	9.44	1.97	5.36	0.668	4	0.47	0.133	714.46				
Gar15SU003row4grain2 - 2	2015_1	1-4_002_rpt	almandine	garnet	G3	0.25-0.5	59800	1167	1174	13.63	0.0196	60.1	13.5	0.0031	0.0159	0.166	0.091	1.39	1.89	0.849	4.41	1.039	9.71	2.19	6.5	0.894	5.85	0.682	0.15	714.87				
Gar15SU003row4grain3 - 1	2015_1	1-4_003	almandine	garnet	G0	0.25-0.5	51600	490	483	61.1	0.132	1950	4.4	0.0032	0.0042	0.108	0.106	2.19	9.53	1.26	70.1	25.5	293	80.4	280	40.7	274	37	0.124	352.23				
Gar15SU004row2grain1 - 1	2015_1	missing	garnet	missing EPMA	G0	0.25-0.5	37900	673	675	21.9	0.149	19.7	28.8	0.077	0.0186	0.211	0.0804	1.058	0.733	0.313	1.39	0.312	2.96	0.76	2.7	0.44	3.22	0.488	0.472	810.83				
Gar15SU004row2grain1 - 2	2015_1	missing	garnet	missing EPMA	G0	0.25-0.5	38300	669	680	21.9	0.148	20.14	29.4	0.088	0.0182	0.221	0.0873	1.092	0.745	0.313	1.35	0.319	2.98	0.774	2.69	0.439	3.13	0.515	0.426	810.83				
Gar15SU005row4grain4 - 1	2015_1	1-4_004	almandine	garnet	G0	0.5-1.0	4650	22.8	22.9		0.159	721	4.1		0.0243	0.0142	0.229	0.421	0.0063	4.11	2.92	58.2	27	161	36.3	333	58.6	0.097						
Gar15SU005row4grain4 - 2	2015_1	1-4_004_rpt	almandine	garnet	G0	0.5-1.0	7450	35.1	34.5		0.144	954	2.2	0.0023	0.0269	0.0193	0.465	1.024	0.0213	6.6	4.47	81.7	33.3	169.8	34.3	281	43.8	0.075						
Gar15SU005row4grain4 - 3	2015_1	1-4_004_rpt	almandine	garnet	G0	0.5-1.0	10200	46	45.1	0.41	0.089	985	1.33	0.0021	0.0222	0.0238	0.541	1.51	0.0267	10.22	6.46	99.4	32.5	134.3	23.4	171	24.2	0.033	324.19					
Gar15SU005row4grain5 - 1	2015_1	1-4_005	almandine	garnet	G3	0.25-0.5	47700	960	950	6.77	0.0186	50.5	13.14	0.004	0.0059	0.0478	0.799	1.38	0.717	4.36	0.995	8.61	1.9	5.84	0.866	5.56	0.76	0.171	600.72					
Gar15SU006row4grain6 - 1	2015_1	1-4_006	almandine	garnet	G0	0.25-0.5	19450	121.6	121.2		0.086	962	2.97	0.003	0.0025	0.0468	0.0403	1.088	5.3	0.121	30.5	11.36	120.3	32.7	121.3	208	155.4	23.01	0.086					
Gar15SU006row4grain6 - 2	2015_1	1-4_006_rpt	almandine	garnet	G0	0.25-0.5	23500	130.3	129.8	0.42	0.074	1153	3.06	0.0039	0.0019	0.0611	0.0622	1.33	5.9	0.128	30.8	11.5	136.9	39.8	137.8	22.4	156.6	21.79	0.061	325.82				
Gar15SU006row4grain7 - 1	2015_1	1-4_007	almandine	garnet	G0	0.25-0.5	21600	129	126.3	0.71	0.056	1401	3.15	0.0047	0.0055	0.0905	0.0854	1.67	7.1	0.354	49.6	19.27	202	51.3	155.8	20.4	115.1	14.1	0.089	363.65				
Gar15SU006row4grain7 - 2	2015_1	1-4_007_rpt	almandine	garnet	G0	0.25-0.5	20900	122.1	122.5	0.61	0.054	1374	3.23	0.0042	0.0037	0.1	0.083	1.61	6.97	0.33	48.8	18.92	197.5	47.7	140.6	18.23	104	12.33	0.096	352.23				
Gar15SU009row2grain2 - 1	2015_1	1-2-2	garnet	garnet	G4	0.25-0.5	38600	735	749	27.4	0.066	16.15	15.7	0.071	0.0129	0.112	0.0349	0.448	0.536	0.337	1.44	0.309	2.61	0.605	1.99	0.36	2.47	0.434	0.249	862.97				
Gar15SU009row4grain8 - 2	2015_1	1-4_008_rpt	almandine	garnet	G4	0.25-0.5	13710	584	582	0.7	0.0157	341	21.8	0.0041	0.157	0.171	3.99	8.42	0.535	25.1	6.3	54.9	11.92	33.8	4.51	28.2	3.41	0.314	362.56					
Gar15SU014row2grain3 - 1	2015_1	1-2-3	garnet	garnet	G10	0.25-0.5	28500	102.8	103.4	47.8	3.19	1.64	10.37	0.982	0.703	4.81	0.908	4.6	0.913	0.276	0.745	0.08	0.376	0.0595	0.217	0.0531	0.543	0.158	0.177	1017.10	1074.72	1042.12	1058.42	
Gar15SU014row2grain3 - 2	2015_1	1-2-3_rpt	garnet	garnet	G10	0.25-0.5	26000	94	94	44.4	2.62	1.527	10.63	0.929	0.609	4.25	0.849	4.56	0.975	0.322	0.781	0.088	0.376	0.0495	0.187	0.0462	0.617	0.136	0.212	994.30	1049.86	1027.73	1038.80	
Gar15SU014row2grain3 - 3	2015_1	1-2-3_rpt	garnet	garnet	G10	0.25-0.5	24500	89.4	90.2	42.1	2.77	1.424	8.73	0.851	0.625	4.27	0.794	4.13	0.744	0.264	0.61	0.074	0.301	0.0494	0.177	0.0485	0.557	0.127	0.154	978.36	1032.51	1017.55	1025.03	
Gar15SU014row2grain4 - 1	2015_1	1-2-4	garnet	garnet	G10D	0.25-0.5	21900	161	156	46.3	4.6	1.423	5.33	1.83	0.86	2.13	4.13	0.771	4.74	1.101	0.333	0.755	0.0727	0.348	0.0537	0.111	0.019	0.228	0.062	0.055	1007.15	1063.86	1035.86	1049.86
Gar15SU019row1grain1 - 1	Mount 3	127	garnet	garnet	G11	0.18-0.25	57500	4860	4830	179.3	0.736	66.2	145.4	0.316	-0.09	0.0275	0.455	0.217	2.8	2.52	1.259	5.74	1.261	10.53	2.6	8.19	1.252	8.67	1.302	3.22	1630.79	1758.53	1367.30	1562.91
Gar15SU019row1grain2 - 1	Mount 3	128	garnet	garnet	G11	0.18-0.25	70200	4390	4310	139.6	0.706	50.1	121.5	0.354	-0.114	0.0112	0.216	0.139	2.13	3.47	1.805	7.46	1.377	9.73	1.918	5.38	0.726	4.6	0.672	2.59	1473.51	1580.49	1437.22</	

Gar1SSUV024row2grain8 - 2	2015_1	1-2_008	garnet	garnet	G9	0.25-0.5	34700	2106	2098	50.4	0.467	21.4	55.8	0.48	0.0294	0.395	0.141	1.75	1.29	0.624	2.46	0.514	3.91	0.841	2.52	0.349	2.19	0.343	1.212	1033.98	1093.14	1052.65	1072.89		
Gar1SSUV024row5grain1 - 1	2015_1	1-5_001	almandine	garnet	G0	0.25-0.5	52500	69.6	72.6	0.056	132.6	3.74	0.0067	0.0247	0.191	0.0899	1.26	1.48	1.585	4.99	1.103	10.17	2.85	8.84	1.143	7.51	1.211	0.063							
Gar1SSUV024row5grain2 - 1	2015_1	1-5_002	almandine	garnet	G3	0.25-0.5	59100	796	80.6	0.32	0.0449	332	11.72	0.0041	0.0294	0.513	0.281	4.34	7.65	2.54	24.1	5.78	52.6	12.49	41.5	6.3	45.3	6.58	0.251	307.94					
Gar1SSUV024row5grain2 - 2	2015_1	1-5_002_rpt	almandine	garnet	G3	0.25-0.5	58300	848	852	0.0454	343	13.23	0.0073	0.0187	0.502	0.271	4.57	7.78	2.31	25	6.11	54	13.01	43.4	6.56	47.6	7.05	0.253							
Gar1SSUV024row5grain3 - 1	2015_1	1-5_003	almandine	garnet	G0	0.25-0.5	8210	227	236	1.69	0.05	189	23.6	0.054	1.38	0.0013	0.0121	0.0105	0.316	3.15	0.146	16.97	4.39	35.1	6.93	20	2.82	1.78	2.46	0.512	437.82				
Gar1SSUV024row5grain4 - 1	2015_1	1-5_004	almandine	garnet	G3	0.25-0.5	49500	721	734	5.46	0.082	66.6	14.55	0.0085	0.19	0.129	2.15	3.1	1.6	7.23	1.493	11.92	2.58	8.17	1.157	8.17	1.125	0.168	570.75						
Gar1SSUV024row5grain4 - 2	2015_1	1-5_004_rpt	almandine	garnet	G3	0.25-0.5	53100	766	770	5.29	0.168	70	14.46	0.0115	0.217	0.139	2.14	3.07	1.68	7.44	1.58	12.24	2.64	8.18	1.204	8.25	1.16	0.172	566.52						
Gar1SSUV024row5grain5 - 1	2015_1	1-5_005	almandine	garnet	G3	0.25-0.5	67900	1478	1469	14.67	0.0265	13.5	41.4	0.0052	0.0055	0.187	0.162	2.82	2.42	1.406	3.25	5.02	2.98	0.455	1.017	0.117	0.704	0.094	0.371	728.62					
Gar1SSUV024row5grain5 - 2	2015_1	1-5_005_rpt	almandine	garnet	G3	0.25-0.5	67200	1514	1518	15.2	0.0623	15.07	43.1	0.0132	0.094	0.55	0.21	2.79	2.49	1.419	3.31	0.519	3.23	0.559	1.31	0.171	0.973	0.141	0.454	735.39					
Gar1SSUV024row5grain6 - 1	2015_1	1-5_006	almandine	garnet	G0	0.25-0.5	8890	180	178.7			191	20.7	0.0022	0.007	0.00089	0.0519	0.0593	1.36	3.98	0.085	17.2	4.5	34.7	6.84	17.7	2.29	12.95	1.6	0.563					
Gar1SSUV025row3grain3 - 1	2015_1	1-3_003	andradite	garnet	G9	0.25-0.5	268000	81700	81500	0.96	4.27	341	1832	8.77	5.41	29	6.22	47.7	25.9	13.57	42.6	7.43	55.4	12	34.4	5.3	34.5	4.92	32.8	387.63					
Gar1SSUV025row3grain4 - 1	2015_1	1-3_004	andradite	garnet	G9	0.25-0.5	244500	23500	23370		2.839	173	497	62.7	58.7	194.7	27.5	142.1	37.2	8.04	31.9	4.14	24.12	4.19	10.88	1.64	10.45	1.391	2.42						
Gar1SSUV026row2grain9 - 1	2015_1	1-2_009	garnet	garnet	G10	0.25-0.5	33800	254	255	23	3.24	1.081	1.56	0.274	0.973	2.87	0.298	1.07	0.161	0.0266	0.086	0.0163	0.151	0.0373	0.179	0.0353	0.405	0.099	0.047	821.82	863.11	912.12	887.61		
Gar1SSUV026row2grain9 - 2	2015_1	1-2_009_rpt	garnet	garnet	G10	0.25-0.5	33800	231	231	22	3.13	1.039	1.74	0.301	0.874	3.4	0.452	1.84	0.242	0.0368	0.082	0.0167	0.119	0.0394	0.142	0.0371	0.381	0.086	0.048	811.84	852.37	905.04	878.71		
Diop1SSUV026row3grain3 - 1	2015_3	3-3_003	diopside	garnet	G0	0.25-0.5	247500	8330	0.92	20.7	18.11	613	18.71	0.038	3.55	19.17	3.77	20.98	5.08	3.134	3.84	0.593	3.64	0.687	1.88	0.263	1.9	0.288	19.16	384.13					
Diop1SSUV026row3grain3 - 2	2015_3	3-3_003_rpt	diopside	garnet	G0	0.25-0.5	247700	7780	0.96	15.55	17.1	537.7	15.42		3.831	20.83	4.041	21.71	5	3.249	3.68	0.552	3.47	0.653	1.817	0.272	1.85	0.277	15.9	387.63					
Diop1SSUV026row3grain4 - 1	2015_3	3-3_004	diopside	garnet	G0	0.25-0.5	219200	10.01	0.37	0.361	0.016	0.0169	0.0004		0.413	1.341	0.078	0.075	0.0053	0.0115															
Diop1SSUV026row3grain4 - 2	2015_3	3-3_004_rpt	diopside	garnet	G0	0.25-0.5	220800	1.1	0.42	0.33			0.00084		0.374	0.952	0.0647	0.07	0	0.0139	0.0016														
Gar1SSUV028row1grain3 - 1	Mount 3	129	garnet	garnet	G9	0.18-0.25	66700	3480	3370	168.8	0.544	19.24	47.2	0.638	-0.104	0.0345	0.42	0.133	1.56	1.12	0.538	2.1	0.408	3.37	0.745	2.37	0.359	2.74	0.422	1.26	1590.35	1712.54	1349.00	1530.77	
Gar1SSUV028row1grain4 - 1	Mount 3	130	garnet	garnet	G11	0.18-0.25	79100	12240	11860	259	1.658	41.6	173.8	1.085	-0.093	0.122	1.602	0.532	4.79	3.1	1.247	5.01	0.999	7.65	1.631	4.82	0.708	4.92	0.735	4.59	1921.14	2092.40	1488.46	1790.43	
Gar1SSUV028row2grain10 - 1	2015_1	1-2_010	garnet	garnet	G9	0.5-1.0	48100	1167	1174	30.9	0.754	15.04	69.6	0.36	0.023	0.233	2.14	0.564	4.42	2.75	1.193	3.6	0.543	3.49	0.61	1.68	0.221	1.48	0.208	0.929	893.06	939.98	961.37	950.67	
Gar1SSUV028row2grain10 - 2	2015_1	1-2_010_rpt	garnet	garnet	G9	0.5-1.0	50000	1222	1224	30.2	0.626	15.09	69.4	0.403	0.261	2.19	0.569	4.39	2.79	1.209	3.71	0.556	3.6	0.639	1.642	0.228	1.459	0.23	1.015	887.20	933.64	957.40	945.52		
Gar1SSUV028row2grain10 - 3	2015_1	1-2_010_rpt	garnet	garnet	G9	0.5-1.0	51900	1268	1279	30	0.62	15.74	71	0.434	0.26	2.26	0.594	4.48	2.79	1.226	3.81	0.577	3.71	0.661	1.716	0.217	1.54	0.215	0.992	888.52	931.82	956.25	944.04		
Gar1SSUV028row2grain10 - 4	2015_1	1-2_010_rpt	garnet	garnet	G9	0.5-1.0	46600	1156	1155	30.4	0.725	14.36	66.7	0.381	0.026	0.233	2.132	0.56	4.1	2.66	1.189	3.51	0.529	3.45	0.602	1.576	0.212	1.326	0.199	0.931	888.89	935.46	958.54	947.00	
Gar1SSUV028row2grain11 - 1	2015_1	1-2-11	garnet	garnet	G9	0.25-0.5	43200	3500	77.1	0.526	14.45	40.8	48.77		0.0401	0.465	0.169	1.6	1.09	0.472	1.85	0.36	2.74	0.521	1.58	0.229	1.48	0.222	0.892	1187.33	1261.50	1143.69			
Diop1SSUV028row3grain5 - 1	2015_3	3-3_005	diopside	garnet	G0	0.25-0.5	253300	1651	8.65	5.63	11.46	43	29.41	4.02	1.325	5.28	1.102	6.93	2.37	0.63	1.93	0.323	2.03	0.395	1.215	0.177	1.213	0.189	0.893	637.56					
Diop1SSUV028row3grain5 - 2	2015_3	3-3_005_rpt	diopside	garnet	G0	0.25-0.5	256400	4190	7.48	8.06	17.1	93.8	17.9		0.26	6.19	0.878	4.47	1.93	0.301	2.31	0.426	3.14	0.659	1.946	0.293	2.11	0.284	2.17	615.35					
Diop1SSUV028row3grain6 - 1	2015_3	3-3_006	diopside	garnet	G0	0.25-0.5	251700	2167	5.68	116.3	29	43.1	4.45	6.53	59.8	152	19	71	11.6	3.05	7.73	0.968	5.82	1.013	2.53	0.349	2.05	0.238	0.824	576.10					
Gar1SSUV030row2grain12 - 1	2015_1	1-2-12	garnet	garnet	G9	0.25-0.5	46500	7.51	7.5	32.9	0.65	0.478	13.21	0.723	0.45	3.74	0.836	5.18	1.24	0.283	0.514	0.0363	0.134	0.0126	0.049	0.0145	0.167	0.0421	0.167	909.41					
Gar1SSUV030row2grain12 - 2	2015_1	1-2-12_rpt	garnet	garnet	G9	0.25-0.5	45000	7.76	7.17	32.1	0.434	0.442	9.89	0.708	0.405	2.91	0.592	3.5	0.856	0.215	0.374	0.029	0.106	0.0157	0.051	0.0145	0.15	0.036	0.11	902.94	957.67	972.36	965.01		
Gar1SSUV051row2grain13 - 1	2015_1	1-2-13	garnet	garnet	G9	0.25-0.5	47100	667	668	58.5	2.99	4.42	9.93	1.869	0.468	3.95	0.823	3.91	0.73	0.206	0.776	0.114	0.812	0.178	0.555	0.0933	0.669	0.119	0.218	1083.94	1147.79	1083.20	1115.50		
Gar1SSUV051row2grain13 - 2	2015_1	1-2-13_rpt	garnet	garnet	G9	0.25-0.5	47000	664	671	60.6	2.98	4.55	10.16	1.908	0.441	4.04	0.871	4.4	0.826	0.209	0.719	0.116	0.887	0.184	0.544	0.085	0.751	0.115	0.288	1096.32	1161.37	1090.64	1126.00		
Gar1SSUV051row3grain6 - 1	2015_1	1-3_006	andradite	garnet	G0	0.25-0.5	256500	29300	29100	0.49	2.173	175.8	483	6.12	5.86	49.1	11.62	77	27.3	8.56	31.4	4.96	33.4	6.58	18.06	2.66	17.16	2.45	16.87	336.45					
Gar1SSUV051row3grain7 - 1	2015_1	1-3_007	andradite	garnet	G0	0.25-0.5	272000	88100	87800	5.07	2.86	58	123.5	45.9	0.057	7.2	31.9	63.5	40	14.84	4.18	16.25	2.38	14.62	2.55	5.9	0.702	3.57	0.433	7.57	560.90				
Gar1SSUV052row5grain7 - 1	2015_1	1-5_007	almandine	garnet	G0	0.5-1.0	8650	30.8	29.7		0.149	1193	14.28	0.0075	0.0011	0.00063	0.0026	0.003	0.102	0.94	0.054	15.9	9.45	129.3	41.5	173	34.9	285	45.4	0.437					
Gar1SSUV052row5grain7 - 2	2015_1	1-5_007_rpt	almandine	garnet	G0	0.5-1.0	8530	35.4	35.8		0.117	1229	27.3	0.0154	0.0023	0.0027	0.0035	0.134	1.27	0.059	20.1	11	142	41.6	164.5	31.4	250	37.5	0.842						
Gar1SSUV052row5grain8 - 1	2015_1	1-5_008	almandine	garnet	G0	0.5-1.0	32000	340	337		0.177	2036	11.42	0.0054	0.002	0.0088	0.233	0.205	4.88	11.43	0.147	50.7	18.22	228	71.7	293	54.9	431	65	0.275					
Gar1SSUV052row5grain8 - 2	2015_1	1-5_008_rpt	almandine	garnet	G0	0.5-1.0	32700	302	299		0.171	1774	8.24	0.0076	0.0144	0.																			

Gar16SU023row2grain1 - 1	Mount 3	141	garnet	garnet	G9	0.18-0.25	64200	722	753	95.3	0.623	10.63	15.32	2.47	-0.045	0.131	1.505	0.395	2.98	0.95	0.317	1.02	0.164	1.341	0.39	1.48	0.266	2.17	0.38	0.261	1278.06	1361.94	1193.90	1277.92
Gar16SU023row2grain10 - 1	Mount 1	236	garnet	garnet	G10	0.25-0.5	39000	1719	18.5	26.7	3.27	0.388	2.28	0.509	29.5	2.43	6.58	0.847	3.32	0.438	0.089	0.256	0.0218	0.116	0.0188	0.0454	0.0079	0.109	0.0296	0.04	856.69	900.69	936.50	918.59
Gar16SU023row2grain10 - 1	Mount 1	150	garnet	garnet	G9	0.18-0.25	84800	4710	5050	111.6	1.614	53.2	115.1	1.116	0.099	0.098	1.39	0.558	5.81	4.19	1.95	7.88	1.606	10.96	2.142	5.08	0.645	3.58	4.8	2.37	1353.33	1445.76	1233.69	1339.73
Gar16SU023row2grain11 - 1	Mount 1	237	garnet	garnet	G12	0.25-0.5	56700	83.5	85.8	25.42	1.036	0.916	13.59	2.79	0.014	0.766	4.71	0.924	4.8	1.03	0.259	0.43	0.0406	0.168	0.0336	0.122	0.0252	0.29	0.072	0.138	844.96	888.04	928.36	908.20
Gar16SU023row2grain11 - 1	Mount 1	151	garnet	garnet	G9	0.18-0.25	64500	3450	3710	120.8	0.945	38.5	116.2	0.528	0.016	0.0307	0.587	0.256	3.18	2.66	1.345	5.25	1.019	7.12	1.524	4.18	0.611	3.87	0.568	2.59	1393.92	1491.14	1254.48	1371.81
Gar16SU023row2grain12 - 1	Mount 1	238	garnet	garnet	G11	0.25-0.5	37500	2862	2909	78.3	0.617	5.46	94.3	0.374	-0.005	0.0315	0.427	0.184	2.34	1.89	0.645	1.93	0.211	1.209	0.211	0.589	0.0955	0.688	0.1154	2.324	1193.58	1268.40	1147.23	1207.81
Gar16SU023row2grain12 - 1	Mount 1	152	garnet	garnet	G9	0.18-0.25	91500	2060	2160	91.8	1.615	17.4	43.4	2.02	0.28	0.293	3.15	0.886	8.2	3.19	1.19	3.43	0.514	3.1	0.69	2.1	0.326	2.87	0.416	0.79	1261.23	1343.26	1184.78	1264.02
Gar16SU023row2grain13 - 1	Mount 1	239	garnet	garnet	G9	0.25-0.5	42500	1879	1963	61.7	0.948	3.66	35.3	0.632	0.012	0.0588	0.899	0.395	4.11	1.74	0.548	1.36	0.163	0.856	0.1401	0.369	0.049	0.393	0.0888	0.887	1102.73	1168.39	1094.47	1131.43
Gar16SU023row2grain13 - 1	Mount 1	153	garnet	garnet	G11	0.18-0.25	69100	4570	4860	148.2	0.607	37.4	73.2	0.605	0.054	0.0428	0.536	0.153	2.11	2.38	0.828	3.1	0.686	6.02	1.494	0.479	0.769	5.69	0.887	1.93	1505.67	1620.12	1310.87	1465.50
Gar16SU023row2grain14 - 1	Mount 1	154	garnet	garnet	G9	0.18-0.25	61300	740	775	143.6	0.356	12.86	19.87	0.68	0.032	0.0255	0.434	0.192	1.77	0.713	0.254	0.86	0.181	1.72	0.474	1.76	0.319	2.39	0.439	0.317	1489.95	1599.01	1301.90	1450.46
Gar16SU023row2grain2 - 1	Mount 1	228	garnet	garnet	G11	0.25-0.5	41900	3000	3050	56.5	0.742	13.74	44.6	0.51	1.85	0.209	1.2	0.21	1.96	1.122	0.593	2.09	0.384	2.74	0.529	1.412	0.201	1.31	0.198	1.003	1071.94	1134.64	1075.95	1184.56
Gar16SU023row2grain2 - 1	Mount 1	142	garnet	garnet	G9	0.18-0.25	72900	4050	4170	181.2	0.775	18.23	69.7	0.692	0.027	0.064	0.77	0.27	2.48	1.5	0.631	2.26	0.4	3.07	0.693	2.23	0.379	2.55	0.428	1.437	1638.04	1766.78	1370.54	1568.66
Gar16SU023row2grain3 - 1	Mount 1	229	garnet	garnet	G11	0.25-0.5	51000	3760	3810	58	0.48	14.4	42.4	0.426	-0.001	0.0287	0.345	0.136	1.434	1.03	0.487	1.85	0.353	2.71	0.563	1.563	0.226	1.428	0.203	1.018	1080.96	1144.52	1081.41	1112.96
Gar16SU023row2grain3 - 1	Mount 1	143	garnet	garnet	G9	0.18-0.25	67100	586	602	89.7	1.238	21.16	108	1.339	0.168	0.138	1.505	0.55	6.01	4.76	2.02	6.41	0.949	5.04	0.834	1.99	0.308	2.37	0.439	1.68	1251.00	1331.92	1179.19	1255.56
Gar16SU023row2grain4 - 1	Mount 1	230	garnet	garnet	G9	0.25-0.5	47500	1951	1954	58.4	0.747	5.05	16.17	0.747	0.027	0.0708	0.854	0.346	3.29	1.023	0.305	0.893	0.1456	0.907	0.191	0.548	0.0825	0.735	0.132	0.543	1083.34	1147.14	1082.84	1114.99
Gar16SU023row2grain4 - 1	Mount 1	144	garnet	garnet	G10	0.18-0.25	48000	64.1	66.8	71.7	8.87	18.03	49.8	1.014	0.163	0.963	9.91	2.3	11.65	3.12	1.216	4.1	0.576	3.5	0.695	2.08	0.326	2.79	0.553	0.838	1158.64	1229.86	1127.26	1178.56
Gar16SU023row2grain5 - 1	Mount 1	231	garnet	garnet	G9	0.25-0.5	36800	1930	1940	76.2	2.39	2.25	25.3	3.36	23.9	1.39	4.17	0.532	3.3	1.311	0.419	1.209	0.126	0.613	0.0849	0.225	0.0362	0.324	0.0616	0.571	1182.62	1256.29	1141.00	1198.65
Gar16SU023row2grain5 - 1	Mount 1	145	garnet	garnet	G10D	0.18-0.25	47000	36.6	41.7	85.4	9.83	0.255	1.95	0.619	-0.084	3.03	12.92	1.308	3.9	0.296	0.062	0.092	0.0083	0.041	0.0085	0.046	0.0107	0.172	0.064	0.025	1229.74	1308.37	1237.92	1273.92
Gar16SU023row2grain6 - 1	Mount 1	232	garnet	garnet	G9	0.25-0.5	40300	2279	2286	62.5	0.735	4.05	45.3	0.593	0.024	0.0582	0.63	0.212	2.02	1.484	0.631	2.13	0.282	1.423	1.16	0.295	0.0342	0.369	0.0878	1.224	1107.35	1173.47	1097.22	1135.34
Gar16SU023row2grain6 - 1	Mount 1	146	garnet	garnet	G12	0.18-0.25	101100	89.4	90	36.4	5.44	0.98	4.63	0.683	-0.077	0.477	4.48	1.553	15.02	2.83	0.556	0.694	0.0577	0.228	0.0286	0.078	0.0199	0.203	0.07	0.091	936.74	987.29	990.50	988.89
Gar16SU023row2grain7 - 1	Mount 1	233	garnet	garnet	G10	0.25-0.5	11120	12.3	11.48	22.66	18.63	0.448	1.43	0.089	0.135	0.226	4.08	0.916	4.77	0.846	0.214	0.329	0.0276	0.113	0.0199	0.076	0.026	0.338	0.1005	0.027	818.46	859.49	909.74	884.61
Gar16SU023row2grain7 - 1	Mount 1	147	garnet	garnet	G9	0.18-0.25	74000	4710	4940	160.8	0.728	20.93	58.7	0.704	-0.036	0.0478	0.578	0.186	2.12	1.57	0.723	2.69	0.52	3.85	0.816	2.36	0.409	2.84	0.444	1.52	1559.01	1677.03	1334.56	1505.79
Gar16SU023row2grain8 - 1	Mount 1	234	garnet	garnet	G1	0.25-0.5	33100	3610	3640	111.3	0.699	10.3	50.7	0.46	0.2	0.0639	0.54	0.169	1.552	0.919	0.418	1.525	0.28	2.05	0.418	1.181	0.165	1.137	0.18	1.207	1351.99	1407.16	1104.14	1244.54
Gar16SU023row2grain8 - 1	Mount 1	148	garnet	garnet	G9	0.18-0.25	73700	1745	1826	104.4	1.218	25.5	89.8	1.161	0.092	0.112	1.401	0.526	5.69	3.64	1.453	4.17	0.587	4.12	0.951	3.21	0.511	3.85	0.61	1.345	1320.66	1409.33	1216.62	1312.98
Gar16SU023row2grain9 - 1	Mount 1	235	garnet	garnet	G9	0.25-0.5	45000	1690	1712	79.7	0.628	2.16	17.06	0.571	0.81	0.0806	0.671	0.197	1.88	0.935	0.314	0.829	0.0978	0.493	0.0761	0.209	0.0368	0.303	0.0637	0.356	1200.82	1276.39	1151.32	1213.86
Gar16SU023row2grain9 - 1	Mount 1	149	garnet	garnet	G11	0.18-0.25	74100	5190	5560	145.5	1.047	27	76.2	0.819	0.081	0.0592	0.74	0.266	2.64	1.88	0.919	3.75	0.773	5.51	1.073	2.77	0.36	2.24	0.339	1.93	1497.71	1607.75	1305.63	1456.69
Gar16SU023row3grain1 - 1	Mount 1	240	garnet	garnet	G9	0.25-0.5	42200	205.4	212.4	46.6	0.023	4.77	2.95	0.577	0.008	0.0487	0.313	0.0637	0.434	0.186	0.066	0.217	0.0506	0.579	0.181	0.681	0.138	1.106	0.173	0.044	1000.15	1066.05	1037.13	1051.59
Gar16SU023row3grain2 - 1	Mount 1	241	garnet	garnet	G9	0.25-0.5	49900	2540	2640	80.8	0.972	7.31	34	0.922	-0.004	0.0937	1.031	0.345	3.23	1.78	0.697	2.11	0.302	1.82	0.291	0.653	0.0736	0.461	0.0808	0.799	1206.47	1282.64	1154.49	1218.56
Gar16SU023row3grain2 - 1	Mount 3	157	almandine	garnet	G4	0.18-0.25	49000	356	367	0.22	0.052	686	20.9	0.0106	-0.016	0.0231	0.75	0.625	12.8	27.8	0.717	77	16.54	124.7	26.6	78.5	12.01	82.8	12.09	0.417	284.98			
Gar16SU023row3grain3 - 1	Mount 1	242	garnet	garnet	G9	0.25-0.5	42800	1309	1349	65.7	0.659	3.8	27.9	0.756	0.059	0.0614	0.737	0.264	2.42	1.146	0.373	0.97	0.132	0.804	0.146	0.413	0.0619	0.489	0.0849	0.782	1125.57	1193.48	1107.99	1150.73
Gar16SU023row3grain4 - 1	Mount 1	243	garnet	garnet	G9	0.25-0.5	43900	1827	1876	47.4	1.125	14.55	52.9	0.993	-0.007	0.0739	1.08	0.421	4.46	3.02	1.206	3.71	0.567	3.2	0.545	1.277	0.163	0.984	0.148	0.974	1014.46	1071.84	1040.47	1056.15
Gar16SU023row3grain4 - 1	Mount 3	159	grossular	garnet	G9	0.18-0.25	462000	3460	3490	0.82	0.576	112.6	30.3	10.29	-0.001	0.0598	0.666	0.428	6.67	7.51	0.403	14.3	2.82	19.26	3.59	10.02	1.466	9.76	1.236	1.59	374.88			
Gar16SU023row3grain5 - 1	Mount 1	244	garnet	garnet	G9	0.25-0.5	32000	829	858	59.6	0.219	9.03	8.89	0.413	0.052	0.0322	0.299	0.0923	0.703	0.377	0.187	0.649	0.156	1.371	0.35	1.099	0.196	1.359	0.224	0.203	1090.45	1154.93	1087.12	1121.02
Gar16SU023row3grain5 - 1	Mount 1	254	almandine	garnet	G3	0.25-0.5	49000	958	946	0.97	0.028	125.2	30.6	0.0029	0.029	0.0237	0.379	0.212	3.27	3.56	1.594	9.12	0.262	20.4	5.1	15.28	2.222	14.29	2.007	0.316	388.48			
Gar16SU023row3grain5 - 1	Mount 1	255	almandine	garnet	G3	0.25-0.5	43600	360	358	30.5	0.018	111.7	15.98	0.0007	0.036	0.0035	0.114	0.0898	1.8	3.29	1.083	9.23	2.13	17.38	4.09	12.64	1.944	13.03	1.898	0.232	499.06			</