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APPENDICES

APPENDIX A
SAMPLE LIST

The following list of samples, including JCU collection reference numbers has also been included as a Microsoft Excel Spreadsheet entitled “**Appendix A - Sample List**” on the enclosed CD.

Appendices

APPENDIX A: Sample List

JCU Sample #	LM Sample #	Easting	Northing	Analytical data				JCU Sample Collection			Rock type		
				C-O analyses	Sr analyses	Microprobe data: carbonates	Microprobe data: silicates	Laser ablation data	C-O sample	Mineral separates (unsorted)		Polished thick section	Thin section off-cut
67997	0004c	464283	7708535									1	CS
67998	0016	-----	-----									1	M
67999	0029	460840	7717430	2					2	1	1		BT
68000	0035b	461949	7717722									1	BR
68001	0036	462118	7717759	2					2				M
68002	0038	463126	7717307	2	1	y	y		2		1	1	M
68003	0059	461086	7715591							1		1	M
68004	0082b	-----	-----	4						1			CS
68005	0082c	-----	-----							1		1	CS
68006	0086	462611	7714486	2					2	1	1	1	CS/V3
68007	0112	459859	7713836							1	1		G
68008	0118	459316	7713483							1	1		M
68009	0135	458828	7713410	3		y	y		3		1		CS/M
68010	0139	458967	7713142	1						1			CS
68011	0140	459040	7713095	1					1	1	1		M
68012	0158	459737	7718288	2					2		1		BH
68013	0163	459066	7717598							1	1		G
68014	0178	458379	7715963							1	1		G
68015	0185	458096	7716990							1	1		G
68016	0194	457720	7716665							1	1	1	BT
68017	0202	457991	7715388	1		y	y				1		VH
68018	0205	457590	7715692								1		G
68019	0228	457864	7714545							1	1		G
68020	0250	459614	7715839							1	1		BT
68021	0255	459235	7715667									1	BT
68022	0282	457053	7713247	2		y			2	1	1		M
68023	0286	457713	7713438	2					2	1	1	1	B2/VR
68024	0293	457857	7713460							1	1		G
68025	0316	459067	7712519							1	1		BT
68026	0319	458965	7711929							1	1		G
68027	0325	461447	7713601	2					2	1	1		CS/V3
68028	0340	459732	7711219									1	BR
68029	0345	459530	7711766	1	2	1		y	1	1	1	1	BR
68030	0347	459535	7711989							1	1		G
68031	0349	461356	7713996							1	1		G
68032	0352	461928	7713825	1					1	1			M
68033	0404	457463	7711191									1	M
68034	0428	457949	7710141	1					1		1		BH
68035	0432	458366	7710420	1					1	1	1	1	SC
68036	0433	458388	7710453	2					2				M
68037	0441	461777	7712021	2					2	1			CS/V3
68038	0480	460180	7710075									1	M
68039	0494	459182	7709881	3		y	y		3		1	1	M
68040	0601	462649	7708188							1	1		BT
68041	0604	462816	7708039									1	CS
68042	0606a	462939	7707994									1	BR
68043	0606b	462939	7707994	1		y			1				BR
68044	0607	463014	7707974	4		y			4	1		1	CS/M
68045	0612	463443	7707965							1	1		BR
68046	0621	463661	7707442							1	1		BR
68047	0707b	465709	7711990							1	1		BT
68048	0783	464361	7708824							1	1		CS
68049	0804	462155	7707030	2						1	1		CS/V3
68050	0810	463513	7707015							1	1		BR
68051	0815	463459	7706260							1	1	1	BR
68052	0824	464421	7706142								1		BR
68053	0825	464415	7705958									1	BR
68054	0858	466211	7706778									1	SC
68055	0865	464872	7705565	3					3	1	1	1	M
68056	0886	464697	7704024							1	1		BR

Rock type codes

BH	High T, Na-Ca breccia
BT	Transitional breccia
BR	Retrograde breccia
VH	High T, Na-(Ca) vein
VT	Transitional vein
VR	Retrograde vein
V3	Rock buffered vein
CS	Calc-silicate rocks and siltstone
M	Marble
G	Granitoids and intrusive rocks
SC	Soldier's Cap Group
RQ	Roxmere Quartzite
I	Metasomatic Ironstone
EH	Ernest Henry
EL	Eloise
ME	Mt Elliott

Appendices

JCU Sample #	LM Sample #	Analytical data		JCU Sample Collection				Rock type				
		Easting	Northing	C-O analyses	Sr analyses	Microprobe data: carbonates	Laser ablation data		Mineral separates (unsorted)	Thin sections	Polished thick section	Thin section off-cut
68057	0895	464000	7705357							1	1	BR
68058	0904	463804	7703488							1	1	BR
68059	0910	462511	7703686							1	1	BR
68060	0963	461875	7704431							1	1	G
68061	0980	462762	7706229							1	1	BR
68062	1035	455483	7701603							1	1	RQ
68063	1047	457108	7702814	2	1	y		2			1	M
68064	1078	456705	7701433						1	1	1	G
68065	1085	457181	7701532								1	BH
68066	1127	456755	7699413								1	BH
68067	1132	456399	7700122								1	CS
68068	1150	457120	7698871	1				1	1	1	1	BH
68069	1151	457101	7698867								1	BH
68070	1185	455454	7696903								1	CS
68071	1207	457490	7696554	1				1		1	1	SC
68072	1214	455541	7695205	2				2		1	1	BR
68073	1215	455568	7694835						1	1	1	BR
68074	1220	454632	7694162								1	BT
68075	1257	461993	7702055							1	1	SC
68076	1260	462278	7701124	1				1		1	1	SC
68077	1263	462389	7701118	1				1	1	1	1	SC
68078	1264	462510	7701193	1				1		1	1	SC
68079	1266b	462389	7701349	2				1				SC
68080	1281	461996	7703159						1			BT
68081	1307	462281	7701943	2		y	y	1	1	1		BT
68082	1310a	462333	7702021	2		y	y	1	1	1		BT
68083	1311	462356	7702012						1	1	1	CS/VR
68084	1314	462403	7702068	1	2	y	y	1	1			BT
68085	1321b	462152	7702089	1				1				BT
68086	1340	462113	7702432						1	1		G
68087	1342a	462147	7702541						1	1		G
68088	1342b	462147	7702541						1	1		G
68089	1351a	462173	7702558	1	3	1	y	1	1	1	1	BT
68090	1351c	462173	7702558	1				1				G
68091	1356a	462135	7702371	2			y	1		1		I
68092	1356b	462135	7702371						1	1		G
68093	1358	462167	7702432	1				1		1		G
68094	1374	463044	7702273	1		y		1				BH
68095	1375.04	449800	7708850	1	3		y	1	1	1		VH
68096	1375.05a	449800	7708850								1	BT
68097	1375.05b	449800	7708850	3				3	1	1		BR/CS
68098	1375.06c	449800	7708850	1				1	1	1		BT
68099	1375.06d	449800	7708850	1	4		y	1	1			VH/VR
68100	1375.06e	449800	7708850						1			G
68101	1375.09	449800	7708850	5				4	1	1		CS/MV3
68102	1375.10	449800	7708850	1				1	1			CS
68103	1377b	460047	7716929						1	1		CS/BR
68104	1380b	459540	7716871	2				1	1	1		BH
68105	1383.02	458176	7712420						1	1		BH
68106	1383.03	458176	7712420						1	1		BH
68107	1383.04b	458176	7712420						1	1		BT
68108	1383.11	458176	7712420						1	1		BT
68109	1384a	448590	7693790	2		1		2	1			CS/M-
68110	1384b	448590	7693790		2		y		1	1		BH
68111	1384d	448590	7693790								1	CS
68112	1384f	448590	7693790								1	CS
68113	1384g	448590	7693790	1				1				VH
68114	1394	453220	7695611	1		y				1	1	CS/V3
68115	1409	453926	7695195								1	BH
68116	1426	453899	7693852	2				2	1	1		CS/V3

Rock type codes	
BH	High T, Na-Ca breccia
BT	Transitional breccia
BR	Retrograde breccia
VH	High T, Na-(Ca) vein
VT	Transitional vein
VR	Retrograde vein
V3	Rock buffered vein
CS	Calo-silicate rocks and siltstone
M	Marble
G	Granitoids and intrusive rocks
SC	Soldier's Cap Group
RQ	Roxmere Quartzite
I	Metasomatic Ironstone
EH	Ernest Henry
EL	Eloise
ME	Mt Elliott

Appendices

JCU Sample #		LM Sample #		Eastings		Northings		Analytical data				JCU Sample Collection				Rock type				
								C-O analyses	O analyses	Sr analyses	Microprobe data: carbonates	Microprobe data: silicates	Laser ablation data	C-O sample	Mineral separates (unsorted)	Thin sections	Polished thick section	Thin section off-cut	Hand sample	
68117	1432b	453892	7693358																1	BR
68118	1433	453853	7693307																1	BR
68119	1441a	453713	7692975																1	M
68120	1441b	453713	7692975					2						2	1	1			1	M
68121	1441c	453713	7692975					1						1	1	1			1	G
68122	1446	453690	7692824																1	BR
68123	1447b	453661	7692815												1	1	1		1	G
68124	1448	453600	7692775					1						1	1	1			1	V3
68125	1450a	453109	7692755					2	1	y				1	1	1			1	M/CS
68126	1452	453147	7692526																1	I
68127	1457b	453741	7692480												1	1	1		1	BR
68128	1477	456774	7692577												1	1			1	BR
68129	1478	456914	7692507												1	1			1	CS
68130	1488	457471	7691305												1	1	1		1	BR
68131	1502	454352	7693595					1						2	1	1			1	BR/CS
68132	1506	454013	7692391					2						1	1	1			1	VR
68133	1510	454072	7691715																1	BR
68134	1529	453107	7696678																1	M
68135	1545	457998	7690115												1	1	1		1	BR
68136	1561a	460135	7692025						1				y	1	1	1			1	I
68137	1561b	460135	7692025					1	2		y	y	y	1	1	1			1	BT
68138	1608	465330	7707762																1	SC
68139	1684	447956	7695547																1	BH
68140	1685	447854	7695798																1	BH
68141	1686a	447883	7695908																1	BH/VH
68142	1686b	447883	7695908					1				y	1	1					1	VH/I
68143	1686c	447883	7695908									y							1	VH
68144	1714a	448152	7696123					1					1	1					1	VH
68145	1714b	448152	7696123									y							1	VH
68146	1735	452603	7697136									y	y	1	1				1	CS
68147	1739	451809	7696898									y							1	I
68148	1785	457573	7688676									y	y	1	1	1	1		1	CS
68149	1801	459401	7688172																1	G
68150	1808	448433	7693886						2			y	y	1	1				1	BH
68151	1845	458637	7685201					1						1	1				1	BR
68152	1864	458572	7684879											1					1	CS
68153	BUDa	451066	7667029																1	BH
68154	BUDb	451066	7667029													1			1	BH
68155	BUDd	451066	7667029													1			1	BH
68156	BUDe	451066	7667029													1			1	BH
68157	BUDf	451066	7667029													1			1	BH
68158	BUDg	451066	7667029									y				1	1		1	BT
68159	BUDh	451066	7667029													1	1		1	BH
68160	BUDi	451066	7667029																1	BI
68161	BUD40	450397	7667892																1	BR
68162	BUD42	450814	7667505					1	2	1		y		1	1				1	BH
68163	BUD67	451350	7667623					2				y		1	1	1			1	BH
68164	spinifex-bp	456893	7690274													1	1	1	1	CS
68165	T72b	399138	7716024					1	1					1	1	1			1	G
68166	T72c	399138	7716024					1	2	1		y		1	1				1	VH
68167	T72d	399138	7716024																1	BH
68168	T72e	399138	7716024							1		y				1	1		1	CS
68169	T72f	399138	7716024					1	1					1	1				1	VH
68170	T72g	399138	7716024							2						1	1		1	BH
68171	T72h	399138	7716024									y				1			1	BH
68172	T72i	399138	7716024					1						1	1				1	VH
68173	T58	398982	7716029									y							1	CS
68174	MA001a	463742	7657505																1	G
68175	MA001b	463742	7657505									y							1	G
68176	MA002	463534	7657746																1	G

Rock type codes

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M	Marble
G	Granitoids and intrusive rocks
SC	Soldier's Cap Group
FQ	Roxmere Quartzite
I	Metasomatic Ironstone
BH	Ernest Henry
EL	Eloise
ME	Mt Elliott

Appendices

JCU Sample #	LM Sample #	Easting	Northing	Analytical data				JCU Sample Collection				Rock type				
				C-O analyses	O analyses	Sr analyses	Microprobe data: carbonates	Laser ablation data	Microprobe data: silicates	C-O sample	Mineral separates (unsorted)		Thin sections	Polished thick section	Thin section off-cut	Hand sample
68195	MP011a	393336	7679381	1						1				G/BT		
68196	MP011d	393336	7679381	2				y		1	1			BT		
68197	MP022b	392771	7682927	1				y		1				I		
68198	MP024a	390379	7680990								1			I		
68199	MP035	390388	7676129	1						1				BT		
68177	EH-01	Ernest Henry		2						2				EH		
68178	EH-02			4							3				EH	
68179	EH-03			1							1			1	EH	
68180	EH-04			3							3				EH	
68181	EH-05			2							2				EH	
68182	EH-06			1							1				EH	
68183	EH-07			1							1				EH	
68184	EH-08			1							1				1	EH
68185	EH-09			1			1	y		y		1				EH
68186	EH-10			2			1	y	y	y		1				EH
68187	EL01	Eloise		1						1				EL		
68188	EL02			1							1				EL	
68189	EL03			1							1				EL	
68190	EL04			2							1				EL	
68191	ME01	Mt Elliott		2						1				1	ME	
68192	ME02			1							1				1	ME
68193	ME03			2							1					ME
68194	ME04			1							1					ME

Rock type codes

BH	High T, Na-Ca breccia
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34 0 2 28 0 0 2 0 4

APPENDIX B
ISOTOPE DATA

All isotope data collected for this study, including oxygen, carbon and strontium isotopes has been presented in tables following **Chapters 6 and 7**. This data, as well as isotope data compiled from other sources and employed in this study is included as a Microsoft Excel spreadsheet entitled “**Appendix B – Isotope Data**” on the enclosed CD.

APPENDIX C
MICROPROBE DATA

All microprobe analyses that form the basis of interpretations in this study are included as a Microsoft Excel spreadsheet entitled “**Appendix C – Microprobe Data**” on the enclosed CD. Representative silicate analyses are also given in the form of tables following **Chapter 6**. Analyses that could not be made stoichiometric following the criteria outlined in the text have not been included. Where published analyses were used in this study, these have been included on the enclosed CD, with data sources noted appropriately.

APPENDIX D
LA-ICPMS DATA

All laser ablation inductively coupled mass spectrometer (LA-ICPMS) analyses of magnetite and hematite collected for this study are included as a Microsoft Excel spreadsheet entitled “**Appendix D – LA-ICPMS Data**” on the enclosed CD. Where analyses have been disregarded in interpretation, following criteria outlined in the text, these have been included and denoted by an asterisk (*).