



Bureau Veritas Minerals Pty Ltd

ABN: 30 008 127 802



MINERAL TESTING & LABORATORY SERVICES

58 Sorbonne Crescent Canning Vale
Perth WA 6155 Australia

Telephone (08) 9456 0404
Facsimile (08) 9456 0403

Reference: **u252095**
Date Finished: 28/11/2014
Order:
Project:
Date Received: 21/11/2014
Samples Analysed: **136**

FINAL ANALYSIS REPORT

Analysis of Mineral Samples

for

Redbank Copper Ltd

24 Mumford Place
Balcatta Perth WA 6021

Attention: Mr. Jason Boladeras

Authorised By:

Stephen Boyd
General Manager

Bureau Veritas Minerals Pty Ltd



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	Ag ppm	As ppm	Ba ppm	Bi ppm	Ce ppm	Er ppm	Eu ppm	La ppm
Detection Limit	0.5	1	1	0.1	0.1	0.05	0.05	0.1
REDR466	2.0	86	827	14.3	159	10.1	3.90	72.4
REDR467	2.5	77	1080	5.9	203	10.4	4.30	88.4
Std Nominal	12.0	190	165	3.7	27.3	1.50	1.05	14.5
Determined	11.5	204	172	3.6	27.8	1.55	1.10	14.5
REDR468	2.5	97	1120	9.1	171	11.8	3.80	76.1
REDR469	3.0	164	1090	11.8	145	9.70	3.25	64.0
REDR470	2.0	116	963	16.9	135	15.7	3.15	59.6
REDR471	2.5	170	933	8.7	137	9.65	3.10	58.0
REDR472	1.0	92	881	3.1	90.9	6.15	2.95	39.5
REDR473	2.0	161	706	8.7	68.9	5.65	3.10	25.8
REDR474	0.5	97	1480	2.9	79.6	6.40	2.75	30.0
REDR475	3.0	136	1610	5.5	58.9	5.50	1.80	22.8
REDR476	2.5	148	1420	4.2	82.2	5.40	1.95	31.2
REDR477	2.0	91	1770	2.1	92.5	6.45	2.15	40.1
REDR478	3.0	86	1170	1.9	98.9	6.60	1.95	43.3
REDR479	2.5	121	1420	3.2	81.6	4.95	1.80	32.0
REDR480	2.5	106	1110	4.4	93.8	4.85	1.85	43.6
REDR481	3.0	108	872	3.4	79.7	4.60	1.75	31.4
REDR482	1.0	99	1150	2.4	72.9	5.50	1.80	29.2
REDR483	2.0	190	1120	3.6	70.6	3.55	1.30	29.1
REDR483 Rpt	2.0	188	1180	3.6	74.7	3.75	1.30	31.0
REDR484	1.0	168	778	4.4	80.3	3.65	1.35	32.4
REDR485	2.0	165	723	4.0	124	4.60	1.85	60.2
REDR486	3.5	393	12	33.2	27.4	0.55	0.40	14.6
REDR487	1.0	114	746	1.8	94.7	4.30	1.70	42.5
REDR488	1.0	114	666	1.6	99.3	4.10	1.85	43.8
REDR489	1.0	152	556	2.5	88.2	4.10	1.60	37.6
REDR490	<0.5	75	629	1.3	88.3	4.15	1.65	37.9
REDR491	<0.5	4	548	<0.1	11.1	0.50	0.40	6.2
REDR492	1.0	127	684	2.0	79.1	3.65	1.45	30.8
REDR493	2.0	214	606	3.4	90.5	4.00	1.60	39.5
REDR494	2.0	231	641	2.9	97.4	3.55	1.60	43.2
REDR495	0.5	111	696	1.1	84.8	3.75	1.40	38.0
REDR496	0.5	111	736	1.3	92.1	4.20	1.60	41.4
REDR497	2.5	210	506	3.1	93.1	5.10	1.80	41.3
REDR498	2.0	92	763	1.2	97.2	4.50	1.35	44.3
REDR499	1.0	124	749	1.4	87.3	4.10	1.30	40.0
REDR500	2.0	207	742	2.6	90.8	3.30	1.55	40.7
REDR501	2.0	231	942	2.8	97.1	3.20	1.60	43.7



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	Ag ppm	As ppm	Ba ppm	Bi ppm	Ce ppm	Er ppm	Eu ppm	La ppm
Detection Limit	0.5	1	1	0.1	0.1	0.05	0.05	0.1
REDR502	3.5	383	731	4.9	82.7	3.45	1.45	37.8
REDR503	4.0	332	591	3.3	65.9	3.90	1.60	26.4
REDR504	3.0	290	550	6.3	72.4	3.60	1.60	28.2
REDR505	1.0	137	809	2.6	81.9	3.30	1.55	31.9
Std Nominal	6.0	100	132	3.0				
Determined	6.0	97	126	2.8	21.7	1.85	1.10	10.2
REDR506	1.0	89	990	3.0	71.2	3.20	1.45	28.3
REDR506 Rpt	1.0	84	1010	2.9	72.7	3.40	1.55	28.8
REDR507	0.5	63	699	1.6	83.3	3.15	1.40	33.8
REDR508	<0.5	<1	341	<0.1	32.8	0.65	0.55	16.6
REDR509	<0.5	37	699	0.8	85.0	3.30	1.40	38.8
REDR510	<0.5	36	693	0.8	82.4	3.15	1.20	38.1
REDR511	<0.5	27	651	0.6	84.8	3.20	1.15	39.6
REDR512	<0.5	33	689	0.8	82.7	3.20	1.10	38.8
REDR513	<0.5	20	672	0.4	81.6	3.30	1.10	37.9
REDR514	<0.5	36	644	0.8	78.3	2.95	1.05	36.7
REDR514 Rpt	<0.5	38	668	0.9	81.1	3.00	1.10	38.0
REDR515	0.5	55	604	1.8	90.8	3.90	1.45	41.2
REDR516	1.0	68	516	2.3	69.5	3.25	1.40	28.1
REDR517	<0.5	4	557	<0.1	10.8	0.50	0.40	6.1
REDR518	<0.5	52	496	1.6	92.7	4.25	1.55	46.4
REDR519	<0.5	42	682	1.0	77.0	4.60	1.35	30.6
REDR520	0.5	36	613	1.1	85.3	4.65	1.55	37.7
REDR521	<0.5	14	798	0.3	61.7	3.45	1.40	24.5
REDR522	<0.5	70	756	1.5	76.1	3.70	1.35	34.2
REDR523	<0.5	42	779	1.1	84.4	3.70	1.55	38.1
REDR524	<0.5	25	727	0.5	77.2	3.50	1.35	30.8
REDR525	0.5	59	783	1.6	76.1	3.45	1.35	34.7
REDR526	0.5	69	765	2.1	77.7	3.45	1.35	31.3
REDR527	<0.5	56	708	1.4	76.1	3.50	1.35	30.8
REDR528	<0.5	70	766	1.6	73.5	3.55	1.40	29.1
REDR529	0.5	106	569	1.8	41.1	4.70	2.05	14.3
Std Nominal	6.0	3	268	2.3				
Determined	6.5	3	244	2.5	37.3	0.65	0.75	16.4
REDR530	1.0	295	13	16.2	30.2	0.40	0.40	15.0
REDR531	1.0	149	997	4.0	96.9	4.65	2.15	45.8
REDR532	1.0	121	782	3.3	66.9	5.05	2.35	25.0
REDR533	1.0	117	575	1.5	132	4.40	2.25	58.0
REDR534	<0.5	43	312	0.8	42.5	1.95	0.75	18.5



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	Ag ppm	As ppm	Ba ppm	Bi ppm	Ce ppm	Er ppm	Eu ppm	La ppm
Detection Limit	0.5	1	1	0.1	0.1	0.05	0.05	0.1
REDR535	<0.5	33	233	0.4	82.8	2.45	1.55	41.1
REDR536	1.0	71	554	1.1	86.3	5.05	2.35	34.8
REDR537	0.5	55	697	1.3	71.0	5.30	2.00	27.1
Std Nominal	8.0							
Determined	7.5	9	289	16.5	83.7	2.75	1.05	40.8
REDR538	1.0	163	1100	3.8	75.2	5.30	2.25	28.7
REDR539	1.0	165	1080	4.5	70.3	5.45	1.80	27.1
REDR540	1.0	140	842	3.6	65.6	5.25	1.60	25.2
REDR541	1.0	183	812	3.6	86.4	5.25	1.80	39.3
REDR542	1.0	165	776	2.4	79.7	5.70	1.90	35.0
REDR543	<0.5	3	580	0.1	11.4	0.55	0.40	6.4
REDR543 Rpt	<0.5	3	588	<0.1	11.1	0.55	0.45	6.4
REDR544	<0.5	76	694	1.3	65.6	5.20	1.70	25.5
REDR545	1.0	113	744	1.9	64.3	5.10	1.65	25.1
REDR546	1.0	115	600	2.3	74.2	5.80	1.40	29.8
REDR547	1.0	96	611	1.6	82.0	5.95	1.55	32.4
REDR548	0.5	107	758	1.7	68.5	4.85	1.60	26.6
REDR549	<0.5	155	280	3.6	133	7.45	2.35	56.1
REDR550	4.0	414	11	35.7	30.2	0.55	0.45	15.5
REDR551	0.5	156	1470	5.8	398	16.8	10.1	140
REDR552	1.0	87	1050	8.0	273	15.0	5.30	113
REDR553	1.0	77	1010	7.6	247	14.4	4.90	103
REDR554	<0.5	3	558	0.2	12.1	0.60	0.40	6.8
REDR555	0.5	62	976	9.4	214	13.0	4.30	91.0
REDR556	0.5	96	1430	4.6	277	16.1	6.75	97.7
REDR557	<0.5	35	876	3.3	94.0	12.6	4.85	36.3
REDR558	<0.5	50	877	2.3	67.0	6.10	2.35	25.0
REDR559	<0.5	57	835	3.0	71.8	6.75	2.50	26.8
REDR560	<0.5	78	824	2.5	75.3	5.55	2.40	29.6
REDR561	<0.5	43	975	1.2	91.3	5.20	2.75	40.4
REDR562	0.5	106	1050	3.6	85.5	6.60	3.50	30.3
REDR563	0.5	67	1380	3.8	64.4	6.05	2.15	24.5
REDR563 Rpt	<0.5	66	1360	3.8	63.1	6.00	2.15	23.5
REDR564	<0.5	15	1330	0.5	96.4	6.80	2.15	43.5
REDR565	<0.5	26	1720	0.2	56.9	5.10	1.60	22.1
Std Nominal	12.0							
Determined	11.5	13	322	26.2	92.2	2.85	1.10	46.8
REDR566	<0.5	22	1640	2.3	65.0	5.40	1.95	25.0
REDR567	<0.5	30	1490	1.3	76.2	6.10	2.55	29.4



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	Ag ppm	As ppm	Ba ppm	Bi ppm	Ce ppm	Er ppm	Eu ppm	La ppm
Detection Limit	0.5	1	1	0.1	0.1	0.05	0.05	0.1
REDR568	1.0	86	1060	5.3	86.3	5.25	2.00	33.6
REDR569	0.5	68	836	3.0	79.1	3.70	1.40	33.0
REDR570	1.0	105	1080	3.1	79.1	4.60	1.35	31.7
REDR571	<0.5	31	720	1.2	91.9	4.35	1.45	41.1
REDR572	<0.5	1	339	<0.1	32.9	0.60	0.55	17.7
REDR573	2.5	195	667	4.5	72.2	4.05	1.35	29.0
REDR574	<0.5	57	742	1.9	79.0	3.60	1.45	33.2
REDR575	<0.5	3	579	0.1	11.1	0.60	0.45	6.2
REDR576	<0.5	35	744	1.5	85.6	3.20	1.30	34.7
REDR577	<0.5	17	727	0.9	88.8	3.45	1.30	40.4
REDR578	<0.5	36	662	1.2	85.2	3.25	1.25	38.8
REDR579	<0.5	32	694	1.3	85.5	3.25	1.20	35.4
REDR580	<0.5	51	705	1.4	83.9	3.25	1.25	39.0
REDR581	<0.5	24	702	1.0	83.8	3.00	1.25	34.6
REDR582	<0.5	34	669	1.3	79.8	3.10	1.20	36.0
REDR583	<0.5	43	701	1.2	80.1	3.05	1.20	33.2
REDR584	<0.5	90	728	2.0	83.7	3.20	1.35	38.7
REDR585	0.5	91	799	2.6	85.7	3.30	1.55	39.3
REDR586	<0.5	68	912	2.3	91.7	3.55	1.65	41.4
Std Nominal	45.0	50		97.2				
Determined	42.0	48	160	102	65.0	1.80	0.75	30.3
REDR587	1.0	53	822	2.5	87.4	4.05	1.85	35.2
REDR588	<0.5	31	269	1.1	56.6	2.25	1.00	24.9
REDR589	<0.5	34	420	0.9	74.3	4.00	1.40	31.7
REDR590	<0.5	14	693	0.6	85.0	4.75	1.75	34.1
REDR591	1.0	29	708	1.0	89.2	4.20	1.75	35.9
REDR592	<0.5	10	795	0.4	73.1	3.70	1.45	29.2
REDR593	<0.5	18	768	0.9	80.6	3.70	1.35	32.5
REDR594	1.0	291	12	15.6	30.8	0.45	0.40	15.5
REDR594 Rpt	1.0	294	12	14.2	29.4	0.40	0.40	15.6
REDR595	<0.5	26	732	1.0	74.0	4.40	1.75	28.9
REDR596	<0.5	14	329	0.9	77.0	3.65	1.85	33.4
REDR597	<0.5	54	661	1.0	69.0	5.30	1.75	27.0
REDR598	<0.5	76	613	1.3	99.3	6.30	1.75	45.2
REDR599	<0.5	34	590	0.8	119	6.50	1.90	56.1
REDR600	<0.5	29	815	0.5	86.8	5.05	1.70	35.5
REDR601	<0.5	3	577	<0.1	12.4	0.60	0.45	6.9
REDR601 Rpt	<0.5	3	564	<0.1	11.4	0.55	0.40	6.4
Std Nominal	116	559	10	4.4	5.3	0.40	0.10	2.3



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	Ag ppm	As ppm	Ba ppm	Bi ppm	Ce ppm	Er ppm	Eu ppm	La ppm
Detection Limit	0.5	1	1	0.1	0.1	0.05	0.05	0.1
Determined	116	571	11	4.1	5.1	0.40	0.05	2.2



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	Nb ppm	Nd ppm	Pb ppm	Rb ppm	Sn ppm	Sr ppm	Ta ppm	W ppm
Detection Limit	0.5	0.05	1	0.2	1	0.5	0.1	0.5
REDR466	33.0	73.7	25	132	5	217	2.0	2.5
REDR467	44.0	86.9	25	138	7	264	2.5	5.5
Std Nominal	3.5	11.0	1030	24.8	4	48.0	0.3	3.5
Determined	4.0	11.9	1030	24.8	3	50.0	0.3	3.5
REDR468	41.0	76.0	36	134	6	421	2.2	4.0
REDR469	37.0	62.3	25	120	5	588	2.1	2.5
REDR470	31.5	58.6	31	110	5	517	2.0	2.5
REDR471	23.5	58.2	24	202	4	410	1.6	2.5
REDR472	18.5	46.8	13	242	3	114	1.3	2.5
REDR473	16.5	39.9	20	267	3	37.5	1.0	3.5
REDR474	16.5	41.6	12	234	3	31.0	1.0	4.0
REDR475	13.5	28.8	22	231	3	44.5	0.6	2.5
REDR476	11.0	38.6	30	221	3	45.5	0.5	2.0
REDR477	16.0	43.7	35	239	3	52.5	0.9	2.0
REDR478	17.0	46.1	35	265	2	27.5	1.0	1.5
REDR479	15.5	39.2	30	229	3	45.5	0.9	1.5
REDR480	13.5	41.3	20	226	2	56.0	0.7	2.0
REDR481	15.0	36.5	21	212	2	34.5	0.8	2.5
REDR482	15.5	37.6	14	200	2	39.0	0.9	2.0
REDR483	15.0	30.6	20	260	3	26.0	0.9	4.0
REDR483 Rpt	15.5	31.6	20	263	3	26.0	0.9	4.5
REDR484	16.0	32.4	16	143	2	20.0	0.9	4.5
REDR485	15.5	53.0	18	162	3	42.5	0.8	7.0
REDR486	2.5	12.0	476	3.2	1	2.0	0.2	1.5
REDR487	16.0	43.8	12	141	2	20.0	1.0	6.0
REDR488	10.0	45.3	13	127	2	11.5	0.4	5.5
REDR489	9.0	41.2	15	151	2	8.0	0.4	4.5
REDR490	10.0	41.4	10	140	2	8.5	0.5	3.5
REDR491	2.5	4.85	10	126	<1	192	0.3	<0.5
REDR492	14.0	36.4	15	146	2	9.5	0.8	4.5
REDR493	14.0	40.7	23	173	2	9.5	0.9	8.0
REDR494	13.5	43.1	22	129	4	11.5	0.8	10.0
REDR495	14.0	38.8	10	203	2	12.5	0.8	6.0
REDR496	11.5	42.6	12	243	2	14.0	0.6	5.5
REDR497	11.5	44.8	29	215	2	9.0	0.6	7.5
REDR498	11.0	44.1	22	140	1	9.0	0.6	4.5
REDR499	8.5	40.5	13	103	1	10.0	0.3	2.0
REDR500	8.0	42.4	21	183	1	9.0	0.4	1.5
REDR501	11.0	44.1	22	236	2	18.0	0.6	2.0



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	Nb ppm	Nd ppm	Pb ppm	Rb ppm	Sn ppm	Sr ppm	Ta ppm	W ppm
Detection Limit	0.5	0.05	1	0.2	1	0.5	0.1	0.5
REDR502	13.5	38.3	36	240	2	12.5	0.8	3.5
REDR503	13.0	33.1	35	197	2	12.0	0.7	2.0
REDR504	10.5	35.8	36	231	2	11.0	0.6	2.0
REDR505	10.5	38.3	13	208	1	13.5	0.5	2.0
Std Nominal	4.0		510		2	104	<0.1	3.0
Determined	4.0	11.6	506	587	2	100	<0.1	4.0
REDR506	11.0	34.1	15	206	2	9.0	0.6	2.0
REDR506 Rpt	10.0	35.4	15	188	1	9.0	0.5	1.5
REDR507	13.0	38.7	8	127	2	13.5	0.7	2.5
REDR508	2.5	14.0	6	72.0	<1	21.0	0.1	2.0
REDR509	13.5	39.3	5	146	1	13.0	0.7	2.0
REDR510	15.0	38.3	7	108	2	10.5	0.8	2.5
REDR511	15.0	38.5	5	115	2	11.0	0.9	2.0
REDR512	16.0	37.6	5	110	2	10.5	0.9	2.0
REDR513	15.5	36.8	3	126	1	10.5	0.9	2.0
REDR514	14.0	36.2	5	122	2	9.0	0.6	1.5
REDR514 Rpt	15.0	37.7	5	123	2	9.5	0.8	1.5
REDR515	11.0	42.8	12	98.4	2	6.5	0.4	2.0
REDR516	11.0	31.4	15	97.6	2	28.0	0.7	2.0
REDR517	2.5	5.00	10	124	<1	197	0.2	<0.5
REDR518	11.0	39.0	10	117	2	52.5	0.7	3.5
REDR519	16.0	36.7	12	96.4	3	10.5	0.8	5.5
REDR520	16.5	40.7	8	96.2	3	10.5	1.0	6.0
REDR521	16.0	32.9	3	123	1	9.0	1.0	2.5
REDR522	16.5	36.7	8	94.8	2	10.5	1.0	2.0
REDR523	14.0	41.1	7	105	2	10.5	0.8	2.0
REDR524	16.5	37.1	8	106	2	9.5	0.9	1.5
REDR525	8.5	36.2	12	95.4	<1	10.5	0.4	0.5
REDR526	14.5	37.1	15	112	1	11.0	0.8	1.5
REDR527	15.0	36.0	15	88.0	2	11.0	0.8	1.5
REDR528	14.5	35.3	14	84.2	2	8.5	0.8	2.0
REDR529	12.5	24.6	15	116	5	14.0	0.7	9.5
Std Nominal			60		4			
Determined	3.0	17.5	58	13.6	4	276	0.1	<0.5
REDR530	2.0	12.5	121	2.6	<1	2.0	0.1	1.5
REDR531	10.5	44.8	16	152	2	25.0	0.6	2.5
REDR532	11.0	34.9	30	152	3	12.5	0.6	4.0
REDR533	13.5	53.4	20	134	4	37.5	0.9	3.5
REDR534	5.5	17.3	9	77.0	2	25.0	0.4	2.0



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	Nb ppm	Nd ppm	Pb ppm	Rb ppm	Sn ppm	Sr ppm	Ta ppm	W ppm
Detection Limit	0.5	0.05	1	0.2	1	0.5	0.1	0.5
REDR535	4.5	34.9	7	75.2	1	46.0	0.3	1.5
REDR536	11.0	41.4	22	143	2	23.5	0.7	2.0
REDR537	12.0	34.3	15	154	2	18.0	0.7	1.5
Std Nominal			66					
Determined	12.5	34.9	65	144	46	16.0	1.0	3.5
REDR538	13.0	37.2	14	128	3	13.5	0.8	2.5
REDR539	12.5	34.7	16	221	3	11.5	0.7	1.5
REDR540	12.0	32.8	14	237	3	13.0	0.7	0.5
REDR541	13.5	41.3	30	229	4	20.5	0.7	4.0
REDR542	12.0	39.9	16	130	3	16.5	0.7	4.0
REDR543	2.5	5.00	10	123	<1	191	0.2	<0.5
REDR543 Rpt	2.5	4.85	10	123	<1	187	0.2	<0.5
REDR544	12.0	33.6	8	133	2	13.0	0.6	2.0
REDR545	12.0	32.2	20	141	2	13.0	0.6	1.5
REDR546	15.5	36.8	24	175	3	16.5	0.9	2.0
REDR547	16.0	38.8	32	183	3	20.5	0.9	2.5
REDR548	14.0	33.6	42	148	2	16.0	0.8	3.5
REDR549	19.5	49.3	22	54.4	4	62.5	1.5	2.0
REDR550	2.5	12.1	482	2.8	<1	2.0	0.2	1.5
REDR551	38.5	227	31	120	6	920	2.3	3.5
REDR552	48.0	131	32	128	7	288	2.7	4.0
REDR553	43.5	109	29	127	7	266	2.5	4.0
REDR554	3.0	5.55	10	125	<1	190	0.2	<0.5
REDR555	41.0	90.7	22	126	6	139	2.3	2.5
REDR556	33.5	147	20	142	4	211	2.0	2.5
REDR557	17.0	73.1	14	211	3	120	1.1	2.5
REDR558	13.5	35.1	9	207	3	71.5	0.7	1.5
REDR559	14.5	37.4	12	199	3	75.5	0.9	2.0
REDR560	15.5	39.0	13	207	4	66.0	1.0	2.5
REDR561	16.0	46.4	10	280	5	110	0.9	2.0
REDR562	17.5	48.7	16	241	4	93.5	1.0	2.5
REDR563	17.5	34.9	18	221	4	34.0	1.0	2.0
REDR563 Rpt	16.5	33.9	17	206	3	31.0	1.0	2.0
REDR564	14.5	46.0	10	202	2	23.0	0.8	2.5
REDR565	16.0	27.8	9	164	3	91.0	0.9	7.0
Std Nominal								
Determined	13.0	36.5	106	141	64	18.5	1.0	4.0
REDR566	17.0	32.0	13	220	3	51.0	1.0	3.5
REDR567	15.0	38.3	8	187	3	42.0	0.8	9.0



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	Nb ppm	Nd ppm	Pb ppm	Rb ppm	Sn ppm	Sr ppm	Ta ppm	W ppm
Detection Limit	0.5	0.05	1	0.2	1	0.5	0.1	0.5
REDR568	17.0	39.9	13	194	3	28.5	1.1	7.0
REDR569	16.0	35.4	9	158	2	21.0	1.0	2.0
REDR570	11.0	37.0	14	208	2	9.0	0.6	1.5
REDR571	14.0	42.4	7	141	2	12.0	0.8	3.5
REDR572	2.5	13.5	6	74.6	<1	20.5	0.1	2.0
REDR573	14.0	34.6	18	191	3	14.0	0.8	2.5
REDR574	14.5	37.4	7	160	2	14.5	0.9	2.0
REDR575	3.0	5.20	10	125	<1	187	0.3	<0.5
REDR576	14.0	39.2	7	190	2	17.5	0.8	3.5
REDR577	16.0	40.2	5	172	2	12.5	0.9	2.5
REDR578	11.0	39.1	5	161	2	11.5	0.6	2.0
REDR579	11.0	40.0	5	158	2	11.0	0.6	1.5
REDR580	12.0	39.2	6	160	2	10.5	0.7	2.0
REDR581	12.5	38.6	5	151	1	12.0	0.7	2.0
REDR582	10.5	37.6	5	148	1	11.0	0.5	2.0
REDR583	11.5	37.3	5	165	2	9.5	0.6	2.0
REDR584	16.0	40.0	7	148	2	11.0	1.0	2.5
REDR585	13.0	40.1	10	146	2	11.5	0.8	2.0
REDR586	12.5	42.3	8	158	2	14.0	0.7	2.0
Std Nominal			345		206			
Determined	8.0	25.4	365	78.2	205	11.0	0.6	4.0
REDR587	5.5	41.6	13	128	<1	12.0	0.2	0.5
REDR588	6.5	24.4	7	64.0	2	29.0	0.4	2.0
REDR589	10.0	32.4	7	164	2	28.5	0.6	1.5
REDR590	15.5	41.0	13	124	2	11.0	0.9	1.5
REDR591	13.0	42.5	7	82.8	2	8.5	0.6	3.5
REDR592	14.5	35.8	5	67.8	2	8.5	0.9	2.0
REDR593	16.5	37.5	6	85.2	2	9.0	1.0	1.5
REDR594	2.0	12.8	139	2.4	<1	1.0	0.1	1.5
REDR594 Rpt	2.0	13.1	126	2.2	<1	1.0	0.1	1.5
REDR595	13.0	35.9	21	142	2	13.0	0.8	4.0
REDR596	7.5	33.5	10	97.6	2	40.5	0.5	1.5
REDR597	14.0	33.9	7	158	3	11.0	0.8	2.0
REDR598	16.0	45.1	9	173	3	17.5	1.0	7.5
REDR599	14.0	51.6	8	175	3	20.5	0.8	7.0
REDR600	16.0	41.4	6	130	3	14.0	1.0	8.0
REDR601	2.5	5.00	10	131	<1	199	0.2	0.5
REDR601 Rpt	2.5	4.95	11	124	<1	190	0.2	0.5
Std Nominal	1.0	3.00	2590	2.8	13	5.0		<0.5



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	Nb ppm	Nd ppm	Pb ppm	Rb ppm	Sn ppm	Sr ppm	Ta ppm	W ppm
Detection Limit	0.5	0.05	1	0.2	1	0.5	0.1	0.5
Determined	1.0	2.85	2720	2.6	12	4.5	<0.1	<0.5



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	Y ppm	Ca %	Co ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm
Detection Limit	0.1	0.01	5	2	0.01	0.01	0.01	2
REDR466	99.6	0.26	45	4950	4.17	7.31	0.29	168
REDR467	104	0.06	15	4060	4.41	8.99	0.08	46
Std Nominal	14.2	1.22	65	2910	12.0	0.60	1.80	1500
Determined	13.3	1.21	70	2920	12.0	0.62	1.79	1500
REDR468	117	0.08	55	4800	6.90	9.51	0.08	122
REDR469	106	0.07	255	6650	10.1	8.11	0.06	530
REDR470	174	0.07	190	1.01%	15.7	7.10	0.07	846
REDR471	105	0.07	130	8980	10.3	8.58	0.57	810
REDR472	63.5	0.36	40	1.17%	3.79	9.56	0.84	156
REDR473	60.5	0.64	25	5880	3.63	10.0	1.04	82
REDR474	60.1	0.60	20	2520	2.68	10.7	0.60	52
REDR475	48.6	0.10	40	1820	2.72	10.8	0.49	36
REDR476	49.0	0.10	45	1730	2.78	10.5	0.52	28
REDR477	57.7	0.44	40	1470	2.00	10.5	0.52	22
REDR478	62.1	0.59	55	1830	2.11	9.65	0.75	20
REDR479	51.9	0.47	40	2500	1.65	11.1	0.24	26
REDR480	50.2	0.53	25	2560	1.55	11.4	0.19	22
REDR481	51.4	0.47	30	1280	2.08	11.3	0.26	46
REDR482	61.1	0.39	50	688	2.03	11.1	0.11	80
REDR483	35.2	0.07	15	966	3.43	10.7	0.44	10
REDR483 Rpt	35.3	0.07	15	976	3.51	10.9	0.45	12
REDR484	37.9	0.08	<5	214	2.00	8.19	0.11	12
REDR485	46.3	0.08	<5	158	2.06	11.3	0.21	16
REDR486	5.7	0.64	235	1.76%	11.0	0.12	3.24	200
REDR487	43.2	0.17	15	586	2.94	10.3	0.31	16
REDR488	46.2	0.68	165	3000	5.13	8.87	1.25	56
REDR489	44.4	0.73	235	2760	4.63	8.97	1.62	42
REDR490	45.2	0.72	150	2190	4.50	8.24	1.80	42
REDR491	5.1	0.47	<5	12	0.74	2.63	0.08	82
REDR492	40.0	0.63	250	1330	4.95	7.97	1.65	34
REDR493	39.0	0.62	380	4090	4.23	9.06	1.25	26
REDR494	39.5	0.64	415	5240	4.96	7.48	1.50	38
REDR495	40.9	0.63	205	1940	3.77	7.69	1.21	28
REDR496	42.3	0.65	205	2240	3.55	9.41	1.12	28
REDR497	48.9	0.71	440	8820	3.60	8.84	1.14	32
REDR498	44.7	0.67	215	2920	4.24	7.33	1.42	36
REDR499	43.6	0.71	150	1940	4.21	7.70	1.30	34
REDR500	38.5	0.68	335	1760	3.92	9.84	1.03	32
REDR501	38.5	0.70	320	1320	2.92	9.87	0.59	28



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	Y ppm	Ca %	Co ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm
Detection Limit	0.1	0.01	5	2	0.01	0.01	0.01	2
REDR502	38.6	0.69	590	3780	3.22	10.1	0.62	24
REDR503	41.0	0.72	405	3150	3.27	10.1	0.62	60
REDR504	39.3	0.72	550	4550	3.42	9.85	0.74	30
REDR505	37.1	0.67	230	2980	3.67	8.80	0.82	24
Std Nominal	16.0	2.48	45	1500	8.65	2.35	1.71	1180
Determined	17.0	2.48	50	1490	8.63	2.37	1.72	1190
REDR506	35.6	0.63	140	7610	3.36	9.78	0.73	28
REDR506 Rpt	37.3	0.64	145	7670	3.34	10.5	0.75	28
REDR507	35.6	0.66	85	1620	3.29	7.72	1.04	32
REDR508	5.5	0.10	5	10	1.17	1.77	0.37	82
REDR509	36.4	0.65	50	1040	3.07	10.4	1.09	36
REDR510	34.1	0.65	55	430	4.58	6.87	1.74	50
REDR511	35.3	0.63	55	1030	4.42	7.23	1.59	44
REDR512	36.4	0.64	55	584	4.02	7.54	1.47	38
REDR513	35.9	0.65	45	886	3.78	9.62	1.40	42
REDR514	34.0	0.62	65	698	4.06	9.13	1.48	42
REDR514 Rpt	35.3	0.64	65	734	4.15	8.63	1.54	42
REDR515	45.5	0.74	95	1300	6.05	6.42	2.35	74
REDR516	37.5	7.68	95	1870	5.66	5.34	5.36	3110
REDR517	5.0	0.46	<5	4	0.86	2.58	0.08	92
REDR518	41.4	7.34	65	1720	5.56	5.41	5.07	3980
REDR519	47.4	0.73	60	1110	5.72	6.32	2.38	114
REDR520	46.5	1.36	65	436	5.95	8.65	2.78	370
REDR521	38.0	0.99	25	1040	2.73	9.60	1.19	190
REDR522	40.0	1.27	65	934	4.32	6.81	1.89	322
REDR523	41.2	0.77	50	492	4.02	7.67	1.58	92
REDR524	38.7	1.34	30	966	4.41	7.26	2.04	422
REDR525	38.1	1.84	60	308	3.53	7.24	1.71	538
REDR526	39.0	1.81	70	266	3.70	8.31	1.73	514
REDR527	39.0	1.63	65	608	4.10	6.73	1.98	454
REDR528	41.9	2.03	65	792	3.73	6.05	1.89	586
REDR529	48.9	5.44	95	794	4.93	5.84	3.70	2020
Std Nominal		2.21	670	1.19%	25.5	0.62	1.79	704
Determined	7.1	2.20	645	1.19%	25.5	0.62	1.77	730
REDR530	3.8	0.13	120	4110	4.29	0.10	2.20	84
REDR531	51.3	2.01	95	352	4.05	8.13	1.70	608
REDR532	52.1	4.67	90	336	3.56	8.36	2.71	1600
REDR533	44.3	5.35	130	656	6.62	5.86	4.85	2110
REDR534	18.1	4.65	55	428	3.21	2.93	3.32	1690



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	Y ppm	Ca %	Co ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm
Detection Limit	0.1	0.01	5	2	0.01	0.01	0.01	2
REDR535	30.0	14.2	50	576	5.53	2.26	8.27	5720
REDR536	51.7	6.87	60	616	4.97	6.60	4.59	2640
REDR537	52.2	5.93	55	624	3.57	7.47	3.84	2210
Std Nominal			40	2.59%				
Determined	28.5	0.30	40	2.59%	8.66	2.09	2.21	996
REDR538	55.8	4.92	125	416	3.65	8.48	2.78	1850
REDR539	54.7	1.99	140	352	3.79	9.35	1.64	694
REDR540	53.6	1.48	115	896	3.68	9.47	1.23	452
REDR541	55.0	1.26	110	502	4.64	9.62	1.57	374
REDR542	58.4	2.09	85	814	3.73	8.36	1.72	720
REDR543	4.9	0.46	<5	10	0.75	2.59	0.09	80
REDR543 Rpt	4.8	0.46	<5	6	0.74	2.56	0.08	84
REDR544	54.6	2.18	65	1150	2.93	9.81	1.62	726
REDR545	52.6	1.72	90	512	2.70	9.98	1.28	534
REDR546	56.3	0.77	95	210	2.95	10.3	0.93	138
REDR547	56.5	0.75	75	252	2.46	10.2	0.91	126
REDR548	49.2	0.71	70	332	2.55	10.3	0.87	108
REDR549	73.5	0.21	45	2430	8.52	2.16	0.24	366
REDR550	5.8	0.63	240	1.78%	11.0	0.11	3.33	206
REDR551	179	0.16	25	3650	5.78	6.03	0.24	128
REDR552	150	0.11	10	1710	2.99	7.56	0.15	56
REDR553	147	0.09	15	1830	3.41	7.77	0.13	62
REDR554	5.8	0.44	<5	40	0.84	2.58	0.08	82
REDR555	133	0.22	30	1410	2.95	8.17	0.20	182
REDR556	185	0.15	60	1730	4.64	8.77	0.21	190
REDR557	155	0.10	90	2080	3.62	6.84	1.07	588
REDR558	74.7	0.07	125	3630	3.77	6.99	0.97	982
REDR559	73.7	0.07	115	3440	3.94	6.80	0.93	818
REDR560	60.0	0.19	60	7860	4.32	6.78	1.02	268
REDR561	48.2	0.12	90	2580	3.12	9.70	0.93	436
REDR562	64.5	0.13	135	3280	5.01	9.41	0.80	644
REDR563	57.6	0.57	45	1760	2.27	9.91	0.66	118
REDR563 Rpt	57.7	0.58	50	1740	2.25	10.3	0.67	118
REDR564	64.3	0.84	20	1110	1.63	9.22	0.64	48
REDR565	44.9	0.36	85	1590	3.28	7.95	0.54	240
Std Nominal			50	3.93%				
Determined	26.4	0.33	55	3.98%	9.90	2.05	2.10	998
REDR566	52.9	0.53	55	1170	2.73	10.2	0.38	190
REDR567	56.7	0.32	70	2080	1.76	10.8	0.11	274



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	Y ppm	Ca %	Co ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm
Detection Limit	0.1	0.01	5	2	0.01	0.01	0.01	2
REDR568	51.6	0.49	30	3080	1.92	10.9	0.22	106
REDR569	39.2	0.37	10	1300	1.91	10.3	0.20	36
REDR570	44.2	0.66	75	1490	3.49	9.80	0.95	42
REDR571	45.5	0.68	40	1680	4.77	8.29	1.76	58
REDR572	6.3	0.11	<5	12	1.17	1.76	0.37	84
REDR573	43.1	0.64	145	4490	3.57	10.3	0.83	36
REDR574	37.9	0.63	30	1750	2.12	10.4	0.59	30
REDR575	4.9	0.47	<5	8	0.88	2.59	0.09	90
REDR576	33.9	0.64	60	1010	5.17	8.31	1.79	50
REDR577	34.9	0.63	30	2220	3.32	9.74	1.09	38
REDR578	34.8	0.62	45	1790	2.86	9.45	0.86	32
REDR579	33.3	0.62	50	2090	2.74	10.1	0.83	34
REDR580	33.2	0.62	65	1770	2.80	9.34	0.85	30
REDR581	33.8	0.60	25	1810	2.14	10.1	0.70	32
REDR582	31.9	0.60	45	1830	2.07	10.4	0.64	30
REDR583	32.4	0.64	55	1140	2.47	10.5	0.80	28
REDR584	36.9	0.64	95	862	2.52	8.89	0.78	30
REDR585	37.5	0.63	140	1560	3.96	9.41	1.26	38
REDR586	40.0	0.64	90	918	2.83	10.1	0.86	32
Std Nominal		0.19	120	14.8 %	19.6	1.20	1.36	
Determined	16.3	0.19	125	14.4%	19.6	1.24	1.32	628
REDR587	45.0	0.68	65	356	2.13	8.89	0.63	32
REDR588	19.1	4.50	45	1620	4.04	3.04	3.60	2050
REDR589	38.5	5.04	30	1030	4.34	5.39	3.78	1890
REDR590	46.3	0.84	45	404	6.27	7.35	2.73	172
REDR591	41.4	0.84	45	422	5.92	5.21	2.57	186
REDR592	38.9	0.70	30	1330	3.97	5.16	1.59	96
REDR593	39.1	1.17	40	720	4.72	5.61	2.14	304
REDR594	3.8	0.11	120	4050	4.28	0.10	2.28	84
REDR594 Rpt	3.8	0.11	120	3920	4.19	0.09	2.21	80
REDR595	44.9	3.26	25	306	4.89	7.22	3.39	1300
REDR596	37.1	10.8	45	602	5.95	3.50	7.14	4390
REDR597	54.0	2.58	30	670	5.18	6.09	2.95	994
REDR598	56.4	0.66	60	486	3.55	9.30	1.30	108
REDR599	54.7	0.52	45	738	2.57	9.88	0.90	64
REDR600	49.2	0.54	30	342	2.71	8.47	1.04	58
REDR601	5.0	0.47	<5	6	0.82	2.56	0.09	88
REDR601 Rpt	4.7	0.48	<5	6	0.84	2.61	0.09	92
Std Nominal	3.9	0.22	330	24.0 %	29.3	0.03	0.51	104



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MINERAL TESTING & LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale
Perth WA 6155 Australia

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Facsimile (08) 9456 0403

Reference: u252095 Order Number: Page 15 of 20

	Y ppm	Ca %	Co ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm
Detection Limit	0.1	0.01	5	2	0.01	0.01	0.01	2
Determined	3.6	0.21	335	24.3%	30.5	0.02	0.52	104



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	Ni ppm	P ppm	Ti ppm	Zn ppm
Detection Limit	2	50	50	2
REDR466	30	1550	7150	58
REDR467	26	1400	8550	46
Std Nominal	94	250	2500	1.04%
Determined	98	250	2550	1.04%
REDR468	56	2100	7450	146
REDR469	96	2200	5650	156
REDR470	112	3200	5050	204
REDR471	88	3000	8800	130
REDR472	46	4100	1.35%	80
REDR473	50	3400	1.58%	80
REDR474	36	3350	1.69%	64
REDR475	60	900	1.74%	102
REDR476	68	950	1.73%	154
REDR477	58	2500	1.84%	200
REDR478	74	2950	1.89%	256
REDR479	50	3000	1.77%	56
REDR480	44	3650	1.80%	30
REDR481	46	2450	1.74%	10
REDR482	54	2400	1.75%	8
REDR483	26	2250	1.71%	2
REDR483 Rpt	26	2150	1.74%	12
REDR484	14	2200	1.82%	<2
REDR485	10	2400	1.89%	<2
REDR486	32	400	650	108
REDR487	22	3000	1.90%	10
REDR488	138	2900	1.72%	44
REDR489	160	3000	1.71%	30
REDR490	100	2900	1.74%	34
REDR491	<2	150	550	4
REDR492	138	2500	1.62%	26
REDR493	188	2350	1.59%	18
REDR494	204	2450	1.64%	24
REDR495	118	2400	1.60%	38
REDR496	116	2300	1.58%	32
REDR497	240	2350	1.52%	30
REDR498	132	2550	1.55%	24
REDR499	110	2600	1.66%	24
REDR500	194	2450	1.49%	10
REDR501	194	2900	1.55%	6



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	Ni ppm	P ppm	Ti ppm	Zn ppm
Detection Limit	2	50	50	2
REDR502	304	2700	1.64%	34
REDR503	248	2450	1.61%	30
REDR504	292	2600	1.56%	60
REDR505	128	2350	1.56%	16
Std Nominal	74	600	5100	5200
Determined	70	600	5300	5270
REDR506	74	2500	1.57%	20
REDR506 Rpt	72	2250	1.59%	18
REDR507	52	2600	1.70%	22
REDR508	12	200	1000	6
REDR509	28	2650	1.69%	22
REDR510	42	2650	1.71%	32
REDR511	40	2400	1.69%	32
REDR512	38	2650	1.75%	28
REDR513	26	2750	1.80%	22
REDR514	36	2650	1.73%	30
REDR514 Rpt	32	2700	1.78%	28
REDR515	86	2850	1.79%	38
REDR516	62	1600	9200	40
REDR517	2	100	500	6
REDR518	38	1250	7900	38
REDR519	52	2750	1.66%	38
REDR520	54	2600	1.64%	54
REDR521	16	2650	1.67%	10
REDR522	40	2450	1.67%	26
REDR523	34	2600	1.78%	22
REDR524	30	2550	1.67%	30
REDR525	42	2250	1.62%	22
REDR526	42	2500	1.65%	22
REDR527	46	2550	1.55%	32
REDR528	46	2550	1.55%	22
REDR529	70	1500	1.15%	120
Std Nominal	1.95%	700	2500	236
Determined	1.90%	650	2550	240
REDR530	16	300	500	22
REDR531	86	2300	1.44%	50
REDR532	68	1750	1.22%	18
REDR533	86	1000	7450	40
REDR534	30	500	2950	30



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	Ni ppm	P ppm	Ti ppm	Zn ppm
Detection Limit	2	50	50	2
REDR535	38	400	1650	22
REDR536	46	1450	8150	34
REDR537	30	1500	9800	26
Std Nominal				324
Determined	36	600	3850	318
REDR538	76	1600	1.07%	10
REDR539	82	1800	1.20%	12
REDR540	68	1900	1.23%	12
REDR541	80	1800	1.26%	68
REDR542	70	1800	1.21%	26
REDR543	4	150	550	2
REDR543 Rpt	2	150	500	4
REDR544	40	2000	1.29%	10
REDR545	56	2000	1.32%	12
REDR546	62	1850	1.40%	22
REDR547	58	2000	1.38%	18
REDR548	50	2000	1.42%	32
REDR549	20	700	5300	6
REDR550	32	400	650	108
REDR551	28	1900	8050	8
REDR552	14	950	9150	4
REDR553	18	900	8250	6
REDR554	4	100	550	6
REDR555	26	750	7200	26
REDR556	34	1500	6700	50
REDR557	42	950	1.25%	86
REDR558	54	950	1.19%	98
REDR559	48	950	1.17%	88
REDR560	68	2100	1.30%	114
REDR561	56	950	1.39%	94
REDR562	54	1400	1.44%	142
REDR563	42	2650	1.79%	210
REDR563 Rpt	40	2600	1.80%	214
REDR564	36	3350	1.92%	190
REDR565	52	1850	1.73%	122
Std Nominal				
Determined	38	600	3800	458
REDR566	36	2400	1.73%	100
REDR567	10	1700	1.67%	18



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	Ni ppm	P ppm	Ti ppm	Zn ppm
Detection Limit	2	50	50	2
REDR568	28	2850	1.77%	32
REDR569	16	2400	1.71%	<2
REDR570	68	2500	1.58%	22
REDR571	46	3000	1.71%	34
REDR572	12	200	1050	6
REDR573	110	2500	1.51%	24
REDR574	22	2650	1.59%	8
REDR575	6	150	500	8
REDR576	42	2550	1.65%	36
REDR577	16	2600	1.69%	26
REDR578	20	2650	1.62%	16
REDR579	24	2500	1.65%	18
REDR580	32	2450	1.67%	22
REDR581	18	2400	1.66%	12
REDR582	18	2350	1.73%	12
REDR583	24	2300	1.79%	10
REDR584	48	2400	1.72%	12
REDR585	82	2450	1.65%	22
REDR586	54	2550	1.73%	16
Std Nominal	36			1360
Determined	34	600	2350	1360
REDR587	44	2450	1.66%	16
REDR588	34	750	4400	24
REDR589	22	1350	8050	26
REDR590	36	2500	1.65%	50
REDR591	34	2200	1.64%	36
REDR592	24	2300	1.68%	26
REDR593	28	2050	1.57%	30
REDR594	14	250	500	22
REDR594 Rpt	12	300	450	20
REDR595	14	1800	1.35%	36
REDR596	34	650	3750	28
REDR597	22	1750	1.11%	32
REDR598	42	1950	1.37%	18
REDR599	30	1800	1.33%	16
REDR600	22	1950	1.37%	10
REDR601	4	150	500	6
REDR601 Rpt	4	100	500	8
Std Nominal	6	50	50	2.63%



Reference: u252095 Order Number: Page 20 of 20

	Ni ppm	P ppm	Ti ppm	Zn ppm
Detection Limit	2	50	50	2
Determined	8	100	100	2.70%

These results pertain to the samples as received at this laboratory.
Where standards are reported, the nominal value for the element is reported above the result found.

"%" Implies this result reported in %

Sample Storage

The excess material (Residue) will be held after 30 days
The pulp samples (Pulp) will be held after 60 days as per instructions.

Sample Preparation

The samples have been prepared at the Amdel Mt Isa facility as per client instructions.

Digest and Analysis:

The sample(s) have been digested and refluxed with a mixture of Acids including Hydrofluoric, Nitric, Hydrochloric and Perchloric Acids. This extended digest approaches a Total digest for many elements however some refractory minerals are not completely attacked.

Ca,Co,Cu,Fe,K,Mg,Mn,Ni,P,Ti,Zn
have been determined by Inductively Coupled Plasma (ICP) Optical Emission Spectrometry.
Ag,As,Ba,Bi,Ce,Er,Eu,La,Nb,Nd,Pb,Rb,Sn,Sr,Ta,W,Y
have been determined by Inductively Coupled Plasma (ICP) Mass Spectrometry.