

**Cameco Australia Pty. Ltd.****Beatrice Project EL 24291 - Sample ASD TSA Minerals****Beatrice Project EL 26796**

Sample Number	Rock type	Formation	Description	TSA Mineral 1	TSA Weight 1	TSA Mineral 2	TSA Weight 2	TSA Error	Signal to Noise
C010762	Sandstone	Phe	Mamadawerre Sandstone	Siderite	1	NULL	NULL	666.23	3542.44
C010763	Dolerite	Pdo	dolerite	Illite	0.585	Kaolinite	0.415	233.36	2523.21
C010764	Dolerite	Pdo	dolerite	Aspectral	NULL	NULL	NULL	5000	1074.99
C010765	Sandstone	Phe	Mamadawerre sandstone	Kaolinite	0.687	Muscovite	0.313	82.155	2153.51
C010766	Silt	Phe	Mamadawerre sandstone	Kaolinite	1	NULL	NULL	91.719	1294.68
C010767	Conglomerate	Phe1	basal cong of Mamadawerre sandstone	Muscovite	1	NULL	NULL	71.746	1950.06
C010768	Sandstone	Phe	Mamadawerre Sandstone	Illite	1	NULL	NULL	38.945	3113.76
C010769	Schist	Pxn	qz-bi schist (pelite)	Illite	1	NULL	NULL	32.164	2477.94
C010770	Sandstone	Phe	Mamadawerre sandstone	Muscovite	0.558	Kaolinite	0.442	82.021	3407.48
C010772	Sandstone	Phe	Mamadawerre sandstone	Muscovite	0.629	Siderite	0.371	87.413	3165.22
C010773	Sandstone	Phe	Mamadawerre sandstone	Muscovite	0.59	Kaolinite	0.41	274.32	3663.9
C010774	Sandstone	Phe	Mamadawerre sandstone	Illite	1	NULL	NULL	1490.49	3136.96
C010775	Sandstone	Phe	Mamadawerre sandstone	Muscovite	0.514	Kaolinite	0.486	413.42	2589.83
C010776	Sandstone	Phe	MAMADAWERRE SANDSTONE	Illite	0.683	Kaolinite	0.317	132.51	3832.59
C010777	Sandstone	Phe	Mamadawerre sandstone	Kaolinite	0.731	Brucite	0.269	624.02	4405.15
C010778	Sandstone	Phe	Mamadawerre sandstone	Siderite	1	NULL	NULL	669.77	3936.78
C011285	Gneiss	Pxm	Gneissic basement	Illite	1	NULL	NULL	144.3	2624.65
C011286	Sandstone	Phe	Mamadawerre sandstone	Kaolinite	1	NULL	NULL	88.848	3547.8
C011287	Sandstone	Phe	Mamadawerre sandstone	Kaolinite	1	NULL	NULL	59.575	2945.53
C011288	Sandstone	Phe	Mamadawerre Sandstone	FeTourmaline	0.588	Ankerite	0.412	217.37	3497.25
C011289	Sandstone	Phe	Mamadawerre Sandstone	Opal	0.675	Kaolinite	0.325	63.254	2279.41
C011290	Sandstone	Phe	Mamadawerre Sandstone	Kaolinite	0.796	Ankerite	0.204	92.808	3754.48
C011291	Sandstone	Phe	Mamadawerre Sandstone	Kaolinite	0.796	Ankerite	0.204	92.808	3754.48
C011292	Sandstone	Phe	Mamadawerre Sandstone	Kaolinite	0.618	Muscovite	0.382	107.95	3003.28
C011293	Sandstone	Phe	Mamadawerre sandstone	Kaolinite	0.646	Muscovite	0.354	67.457	3464.96
C011294	Sandstone	Phe	Mamadawerre Sandstone	Illite	1	NULL	NULL	77.114	3736.22
C014201	Sandstone	Phe	sandstone	Muscovite	0.776	Halloysite	0.224	68.811	2771.37
C014202	Sandstone	Phe	sandstone	Muscovite	0.548	Kaolinite	0.452	110.84	3342.45
C014203	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	41.217	3120.82
C014204	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	75.978	2665.39
C014205	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	56.288	3438.21
C014206	Sandstone	Phe	sandstone	Muscovite	1	NULL	NULL	289.64	1617.52
C014207	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	80.756	1777.12
C014208	Sandstone	Phe	sandstone	Kaolinite	0.501	Muscovite	0.499	62.223	3480.95
C014209	Sandstone	Phe	sandstone	Muscovite	0.829	Kaolinite	0.171	73.391	2740.61
C014210	Sandstone	Phe	sandstone	Siderite	0.572	Illite	0.428	157.39	3835.51
C014211	Sandstone	Phe	sandstone	Kaolinite	0.536	FeTourmaline	0.464	131.77	3476.12
C014212	Sandstone	Phe	sandstone	Halloysite	1	NULL	NULL	4171.05	3346.67
C014213	Sandstone	Phe	sandstone	Siderite	0.553	Kaolinite	0.447	182.47	3735.3
C014214	Sandstone	Phe	sandstone	Muscovite	0.523	Kaolinite	0.477	195.72	4193.93
C014215	Sandstone	Phe	sandstone	Kaolinite	1	NULL	NULL	106.09	3557.6
C014216	Sandstone	Phe	sandstone	Illite	0.644	Siderite	0.356	83.469	3287.51
C014217	Sandstone	Phe	sandstone	Kaolinite	1	NULL	NULL	173.01	4225.22
C014218	Sandstone	Phe	sandstone	Illite	0.726	Halloysite	0.274	167.12	3663.46
C014219	Sandstone	Phe	sandstone	Kaolinite	0.825	Brucite	0.175	242.52	3480.89
C014220	Sandstone	Phe	sandstone	Kaolinite	1	NULL	NULL	115.87	2982.07
C014221	Sandstone	Phe	sandstone	Illite	0.557	Siderite	0.443	131.61	4733.14
C014222	Sandstone	Phe	sandstone	Muscovite	0.68	Siderite	0.32	75.796	3467.2
C014223	Sandstone	Phe	sandstone	Kaolinite	1	NULL	NULL	118.46	3940.25
C014224	Sandstone	Phe	sandstone	Kaolinite	1	NULL	NULL	499.75	4487.3
C014225	Sandstone	Phe	sandstone	Siderite	0.557	Illite	0.443	151.66	3795.47
C014226	Sandstone	Phe	sandstone	Muscovite	0.632	Kaolinite	0.368	43.843	2587.95
C014227	Sandstone	Phe	sandstone	Muscovite	0.761	Kaolinite	0.239	50.809	2661.45

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C014228	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	171.27	3316.64
C014230	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	106.33	3636.54
C014231	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	147.01	3002.85
C014232	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	30.63	2374.56
C014233	Sandstone	Phe	sandstone	Illite	0.5	Phengite	0.5	66.049	2204.16
C014234	Sandstone	Phe	sandstone	Muscovite	1	NULL	NULL	82.49	3634.03
C014235	Sandstone	Phe	sandstone	Kaolinite	0.69	Illite	0.31	50.931	1398.75
C014236	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	74.389	2658.82
C014237	Sandstone	Phe	sandstone	Kaolinite	0.751	Siderite	0.249	32.095	3316.02
C014238	Sandstone	Phe	sandstone	Kaolinite	0.65	Illite	0.35	76.096	3287.45
C014239	Sandstone	Phe	sandstone	Muscovite	0.669	Kaolinite	0.331	42.79	3283.51
C014240	Sandstone	Phe	sandstone	Illite	0.731	Siderite	0.269	52.898	3268.34
C014241	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	88.66	3610.76
C014242	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	102.44	3480.37
C014243	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	103.85	2982.13
C014244	Sandstone	Phe	sandstone	Siderite	0.586	Illite	0.414	174.85	3435.3
C014245	Sandstone	Phe	sandstone	IntChlorite	0.511	FeTourmaline	0.489	114.21	3335.74
C014246	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	51.105	2402.66
C014247	Sandstone	Phe	sandstone	Muscovite	0.525	Kaolinite	0.475	200.83	3011.93
C014248	Granite	Pgt	granite	Muscovite	1	NULL	NULL	66.397	3523.31
C014249	Granite	Pgt	granite	Kaolinite	0.631	Illite	0.369	63.724	2286.97
C014250	Granite	Pgt	granite	Kaolinite	0.516	Illite	0.484	158.77	2630.2
C014251	Granite	Pgt	granite	Illite	0.613	Muscovite	0.387	26.092	2428.13
C014252	Sandstone	Phe	sandstone	Muscovite	0.839	Kaolinite	0.161	54.526	2204.37
C014253	Sandstone	Phe	sandstone	Kaolinite	1	NULL	NULL	263.95	3830.71
C014254	Sandstone	Phe	sandstone	Siderite	0.527	Illite	0.473	154.18	3321.74
C014255	Sandstone	Phe	sandstone	Kaolinite	0.552	Siderite	0.448	116.93	3848.45
C014256	Sandstone	Phe	sandstone	Kaolinite	0.659	FeTourmaline	0.341	133.34	3046.09
C014257	Sandstone	Phe	sandstone	Halloysite	1	NULL	NULL	230.44	3539.17
C014258	Sandstone	Phe	sandstone	Muscovite	1	NULL	NULL	81.192	2996.65
C014259	Sandstone	Phe	sandstone	Siderite	0.546	Illite	0.454	135.98	3666.85
C014260	Sandstone	Phe	sandstone	Kaolinite	0.662	Siderite	0.338	86.226	2944.77
C014261	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	86.495	2214.36
C014262	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	45.316	2658.81
C014263	Siltstone	Phe	siltstone	Kaolinite	0.556	Illite	0.444	318.2	1977.01
C014264	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	186.79	2359.58
C014265	Sandstone	Phe	sandstone	FeChlorite	0.813	Halloysite	0.187	34.524	2629.4
C014266	Sandstone	Phe	sandstone	Illite	0.596	MgChlorite	0.404	81.854	2721.8
C014267	Sandstone	Phe	sandstone	Muscovite	0.514	Kaolinite	0.486	180.16	2712.3
C014268	Sandstone	Phe	sandstone	Muscovite	0.558	Siderite	0.442	85.835	2648.29
C014269	Sandstone	Phe	sandstone	Illite	0.739	MgChlorite	0.261	48.071	2890.65
C014270	Sandstone	Phe	sandstone	IntChlorite	0.546	Muscovite	0.454	35.147	2107.54
C014271	Sandstone	Phe	sandstone	Illite	0.62	Halloysite	0.38	48.87	1775.24
C014272	Ferricrete	Cz	ferricrete	Muscovite	1	NULL	NULL	59.488	2737.11
C014273	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	32.906	2270.07
C014274	Sandstone	Phe	sandstone	Illite	0.825	Halloysite	0.175	48.621	2459.7
C014275	Sandstone	Phe	sandstone	Muscovite	1	NULL	NULL	201.51	2771.88
C014276	Sandstone	Phe	sandstone	Muscovite	0.571	Kaolinite	0.429	74.145	3114.28
C014277	Sandstone	Phe	sandstone	Kaolinite	1	NULL	NULL	251.35	2726.37
C014278	Sandstone	Phe	sandstone	Kaolinite	0.575	Muscovite	0.425	60.802	3225.78
C014279	Sandstone	Phe	sandstone	Illite	0.825	Halloysite	0.175	44.845	3926.35
C014281	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	78.704	2028.12
C014282	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	762.87	2269.03

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C014283	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	50.283	3376.82
C014284	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	173.61	3059.01
C014285	Sandstone	Phe	sandstone	Siderite	0.567	Muscovite	0.433	203.26	3496.13
C014286	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	122.62	3497.87
C014287	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	3053.16	4705.36
C014288	Sandstone	Phe	sandstone	Muscovite	0.607	Kaolinite	0.393	107.43	4038.48
C014289	Sandstone	Phe	sandstone	Kaolinite	0.623	Muscovite	0.377	181.03	2669.54
C014290	Sandstone	Phe	sandstone	Wood	1	NULL	NULL	106.96	2258.4
C014291	Sandstone	Phe	sandstone	Illite	0.649	FeTourmaline	0.351	70.056	3003.49
C014292	Sandstone	Phe	sandstone	Illite	0.74	Dickite	0.26	45.077	2433.4
C014293	Sandstone	Phe	sandstone	Illite	0.741	Kaolinite	0.259	72.131	3073.51
C014301	Sandstone	Phe	sandstone	Halloysite	0.523	DryVegetation	0.477	389.12	2668.79
C014302	Sandstone	Phe	sandstone	Muscovite	0.658	Kaolinite	0.342	200.38	3896.71
C014303	Sandstone	Phe	sandstone	Kaolinite	1	NULL	NULL	128.82	4084.7
C014304	Sandstone	Phe	sandstone	Kaolinite	0.64	Muscovite	0.36	196.91	3825.82
C014305	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	142.41	4073.59
C014306	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	459.19	4725.63
C014307	Sandstone	Phe	sandstone	Aspectral	NULL	NULL	NULL	5000	3847.52
C014308	Sandstone	Phe	sandstone	Kaolinite	0.769	Magnesite	0.231	85.589	4202.67
C014309	Sandstone	Phe	sandstone	Kaolinite	1	NULL	NULL	445.09	4568.22
C014310	Sandstone	Phe	sandstone	FeTourmaline	0.767	Brucite	0.233	282	4321.86
C014311	Sandstone	Phe	sandstone	Kaolinite	0.607	Siderite	0.393	98.471	3498.81
C014312	Sandstone	Phe	bleached weakly limonitic sandstone	Halloysite	1	NULL	NULL	210.75	2654.63
C014313	Pebbly sandstone	Phe	bleached weak LI pebbly SDST	Kaolinite	0.613	Muscovite	0.387	198.56	2941.9
C014314	Schist	Pxn3	quartz muscovite schists/ gneiss	Illite	1	NULL	NULL	52.669	2148.75
C014315	Pelite	Pxn3	pelitic schists/ gneisses	Illite	1	NULL	NULL	96.478	1941.1
C014901	Sandstone	Phe	Mamadawerre sandstone	Halloysite	1	NULL	NULL	362.63	3727.53
C014902	Sandstone	Phe	Mamadawerre sandstone	Muscovite	0.56	Halloysite	0.44	97.142	3616.12
C014903	Sandstone	Phe	Mamadawerre sandstone	Muscovite	0.582	Kaolinite	0.418	132.33	2604.05
C014904	Sandstone	Phe	Mamadawerre sandstone	Siderite	1	NULL	NULL	489.71	4360.41
C014905	Sandstone	Phe	Mamadawerre sandstone	Siderite	0.51	Illite	0.49	133.39	3347.26
C014906	Sandstone	Phe	Mamadawerre sandstone	Siderite	1	NULL	NULL	449.88	4225.71
C014907	Sandstone	Phe	Mamadawerre sandstone	Muscovite	1	NULL	NULL	119.5	3410.79
C014908	Sandstone	Phe	Mamadawerre sandstone	Kaolinite	0.676	Muscovite	0.324	172.78	4128.29
C014909	Sandstone	Phe	Mamadawerre sandstone	Opal	0.749	Kaolinite	0.251	89.189	2818.98
C014910	Sandstone	Phe	Mamadawerre sandstone	Kaolinite	0.623	Muscovite	0.377	158.56	3997.59
C014911	Sandstone	Phe	Mamadawerre Sandstone	Illite	1	NULL	NULL	104.33	3656.81
C014912	Sandstone	Phe	Mamadawerre Sandstone	Illite	1	NULL	NULL	102.71	4039.51
C014913	Sandstone	Phe	Mamadawerre sandstone	Illite	1	NULL	NULL	58.039	3256.89
C014914	Sandstone	Phe	Mamadawerre sandstone	Dickite	0.741	Illite	0.259	56.229	2676.15
C014915	Sandstone	Phe	Mamadawerre Sandstone	Muscovite	1	NULL	NULL	468.3	2512.68
C014916	Sandstone	Phe	Mamadawerre Sandstone	Muscovite	1	NULL	NULL	123.3	3051.18
C014917	Sandstone	Phe	Mamadawerre sandstone	Aspectral	NULL	NULL	NULL	5000	3512.02
C014918	Sandstone	Phe	sandstone	Kaolinite	0.755	Muscovite	0.245	103	2723.44
C014919	Sandstone	Phe	sandstone	Kaolinite	1	NULL	NULL	115.27	2331.73
C014921	Sandstone	Phe	sandstone	Siderite	0.507	Muscovite	0.493	115.53	3152.99
C014922	Sandstone	Phe	sandstone	Kaolinite	0.69	Illite	0.31	30.651	2549.94
C014923	Sandstone	Phe	sandstone	Illite	0.546	MgChlorite	0.454	127.81	2635.83
C014924	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	187.37	1642.53
C014925	Granite	Pgt	granite	Illite	1	NULL	NULL	62.234	2185.45
C014926	Sandstone	Phe	sandstone	Kaolinite	0.678	Illite	0.322	51.535	2752.66
C014927	Sandstone	Phe	sandstone	Illite	1	NULL	NULL	66.272	3348.17
C014928	Schist	Pxm	schist	Illite	1	NULL	NULL	155.46	1947.87

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C015402	Sandstone	Phe	Mamadawerre Sandstone	Kaolinite	1	NULL	NULL	51.145	2620.58
C015403	Sandstone	Phe	Mamadawerre Sandstone	Illite	0.596	Kaolinite	0.404	135.46	3731.75
C015404	Sandstone	Phe	Mamadawerre Sandstone	Illite	0.57	Kaolinite	0.43	111.12	2961
C015405	Sandstone	Phe	Mamadawerre Sandstone	Kaolinite	0.576	Muscovite	0.424	38.328	2728.53
C015406	Pelite	Pc	biotite-biotite schists	Illite	1	NULL	NULL	65.195	1973.4
C015407	Sandstone	Phe	Mamadawerre Sandston	Kaolinite	0.57	Illite	0.43	136.74	2565.09
C015408	Sandstone	Phe	Mamadawerre Sandstone	Muscovite	0.57	Kaolinite	0.43	231.51	4300.73
C015409	Sandstone	Phe	Mamadawerre Sandstone	Kaolinite	1	NULL	NULL	155.08	3433.61
C015410	Sandstone	Phe	Mamadawerre Sandstone	Kaolinite	0.533	Muscovite	0.467	51.391	2925.25
C015411	Sandstone	Phe	Mamadawerre sandstone	Kaolinite	0.817	Magnesite	0.183	53.528	3115.1
C015412	Conglomerate	Phe	Mamadawerre sandstone	Muscovite	1	NULL	NULL	228.21	1694.71
C015413	Schist	Pxm	Qz-Bi Schist (Pelite)	Illite	0.506	Kaolinite	0.494	31.698	2550.55
C015414	Sandstone	Phe	Mamadawerre sandstone	Illite	1	NULL	NULL	37.978	3253.96
C015415	Sandstone	Phe	Mamadawerre sandstone	Muscovite	0.583	Kaolinite	0.417	86.196	2540.72
C015416	Sandstone	Phe	Mamadawerre Sandstone	Kaolinite	0.745	Muscovite	0.255	65.683	2603.13
C015417	Sandstone	Phe	Mamadawerre Sandstone	Siderite	1	NULL	NULL	697.24	4048.31
C015418	Sandstone	Phe	Mamadawerre Sandstone	Halloysite	1	NULL	NULL	3008.78	4490.81
C015421	Sandstone	Phe	Mamadawerre Sandstone	Illite	1	NULL	NULL	3832.87	2371.04
C015422	Sandstone	Phe	Mamadawerre Sandstone	Siderite	0.653	Illite	0.347	177.83	2986.88