

Table 1. Summary of Cyanidation Test Results

Test No.	P ₈₀ , µm	Reagent, kg/t of CN feed				Au Extraction/Recovery, %						Au Residue, g/t			Au Head, g/t		
		Addition		Consumption		4	7	24	48	Grav	Grav + CN	A	B	Average	CN Calc	Grav Calc	Direct
		NaCN	CaO	NaCN	CaO												
Buffalo Ankerite North Zone Composite G-2 Tailing																	
CN-1	103	0.83	0.54	0.08	0.51	82	85	88	88.9	13.5	90.4	0.42	0.38	0.4	3.6	4.15	3.60
CN-2	68	0.97	0.41	0.29	0.39	88	91	93	93.3		94.2	0.25	0.23	0.24	3.59		
Buffalo Ankerite South Zone Composite G-1 Tailing																	
CN-3	149	0.79	0.52	0.14	0.51	75	78	85	86.6	17.7	89	0.27	0.26	0.27	1.98	2.36	2.20
CN-4	82	1.38	0.41	0.72	0.39	79	87	93	92.4		93.7	0.14	0.15	0.15	1.9		
Paymaster Composite G-3 Tailing																	
CN-5	131	0.77	0.41	0.07	0.4	61	66	72	73.2	13.6	76.8	0.54	0.5	0.52	1.94	2.31	2.20
CN-6	74	1.44	0.28	0.7	0.24	70	84	90	90.5		91.8	0.2	0.19	0.2	2.05		
Fuller Composite G-4 Tailing																	
CN-7	135	0.75	0.34	0.05	0.32	64	68	76	79.7	37	87.2	0.2	0.23	0.22	1.06	1.68	2.20
CN-8	65	0.76	0.37	0.05	0.35	76	80	85	85.3		90.7	0.16	0.15	0.16	1.06		
Davidson Tisdale Composite G-5 Tailing																	
CN-9	137	0.75	0.55	0.17	0.55	49	62	91	94.8	24.2	96.1	0.03	0.1	0.05	0.87	1.23	0.7
CN-10	68	1.47	0.54	0.82	0.53	58	77	94	98		98.5	0.02	<0.02	0.02	0.98		