

## Appendix 1: Drill Collars and Analytical Results.

Hole_Id	East	North	Dip	Azimuth	Depth	Intersection
DDH_J1_001	745851	8713048	-60	190	45.2	0.6m @ 15.8% Mn from 25.6m. 0.15m @ 15.9% Mn from 30.1m. 0.35m @ 34.2% Mn from 38.9m
DDH_J1_002	745933	8713346	-60	350	40.8	0.7m @ 25.9% Mn from 20.3m.
DDH_J1_003	745769	8713061	-60	190	45.0	Trace mineralization
DDH_J1_004	745876	8713344	-60	350	39.9	Barren
DDH_J1_005	745932	8713031	-60	190	40.0	Trace mineralization
DDH_J1_006	745981	8713362	-60	350	38.3	Barren
DDH_J3_001	745992	8717247	-60	345	61.0	4.8m @ 35.0% Mn from 32.2m, including: 3.1m @ 48.9% Mn from 34.1m, including 1.9m @ 57.8% Mn from 33.2m. 0.6m @ 13.1% Mn from 38m 0.55m @ 18% Mn from 42.7m.
DDH_J3_002	746000	8717173	-60	330	56.2	0.2m @ 24.4% Mn from 5.65m. 0.4m @ 23.9% Mn from 16.9m. 0.25m @ 21.9% Mn from 18.95m. 0.85m @ 30.9% Mn from 39.55m.
DDH_J3_003	745995	8717232	-50	345	69.2	0.35m @ 40.9% Mn from 19.3m. 1.9m @ 31.3% Mn from 52.1m, including: 0.6m @ 55.8% Mn from 52.1m 0.15m @ 58% Mn from 55.65m 0.6m @ 16.3% Mn from 57.5m
DDH_J3_004	746007	8717152	-60	330	60.6	Trace mineralization
DDH_J3_005	746001	8717209	-60	345	60.2	Trace mineralization
DDH_J3_006	745991	8717256	-60	345	35.1	0.75m @ 10.84% Mn from 8.35m 2.2m @ 32.9% Mn, including: 0.3m @ 51.3% Mn from 13.8m
DDH_J3_007	746130	8717265	-60	340	47.0	0.15m @ 27.8% Mn from 17.7m 0.7m @ 14.87% Mn from 18.65m
DDH_J3_008	746142	8717237	-50	330	41.1	0.8m @ 39.3% Mn from 15.75m 0.3m @ 16.3% Mn from 33.95m
DDH_J3_009	745962	8717250	-60	350	48.2	0.2m @ 49% Mn from 14.55m 0.2m @ 23.6% Mn from 19.25m 0.3m @ 25.3% Mn from 24.55m 0.6m @ 17.4% Mn from 26.65m 0.65m @ 16.9% Mn from 27.9m 0.65m @ 35.8% Mn from 38.05m, including 0.3m @ 53.9% Mn from 38.05m 0.15m @ 22.2% Mn from 41.9m
DDH_J3_010	745963	8717241	-60	350	63.0	0.65m @ 20.9% Mn from 37.95m 1.65m @ 16.6% Mn from 48.0m, including 0.15m @ 51.6% Mn from 48.3m
DDH_LC_001	749713	8713922	-60	210	42.6	0.3m @ 12.9% Mn from 30.4m 0.55m @ 15.8% Mn from 30.4m
DDH_LC_002	750024	8713638	-50	35	61.8	9.9m @ 12.5% Mn from 39.0m. 1.2m @ 13.4% Mn from 58.8m
DDH_TM_001	761280	8717460	-60	180	62.4	Assay pending
DDH_TM_002	760880	8717325	-60	180	60.3	Assay pending
DDH_TM_003	761480	8717495	-60	180	59.6	Assay pending
DDH_TM_004	761580	8717543	-50	180	61.7	Assay pending
DDH_TM_005	761581	8717513	-50	180	93.4	Assay pending
DDH_AM_001	745730	8722437	-60	150	64.8	Assay pending
DDH_AM_002	745721	8722449	-60	150	44.2	Assay pending
DDH_AM_003	745796	8722474	-60	150	85.6	Assay pending
DDH_LD_001	749117	8720298	-60	15	50.1	Assay pending
DDH_LD_002	749114	8720285	-60	15	68.0	Assay pending

Hole_Id	East	North	Dip	Azimuth	Depth	Intersection
DDH_FL_001	745848	8720479	-50	180	42.7	Assay pending
DDH_FL_002	745862	8720500	-50	180	26.0	Assay pending
DDH_FL_003	745857	8720509	-50	180	41.0	Assay pending
DDH_FL_004	745689	8720570	-50	180	40.6	Assay pending
DDH_EM_001	755251	8732000	-60	330	54.8	Assay pending
DDH_EM_002	755254	8731988	-60	330	68.4	Assay pending
DDH_EM_003	755171	8731971	-60	330	48.8	Assay pending
DDH_EM_004	755069	8731999	-60	340	35.0	Assay pending
DDH_EM_005	755100	8731924	-60	330	89.9	Assay pending
DDH_EM_006	755076	8731971	-60	150	91.6	Assay pending

*Intersection widths are quoted as down-hole widths. Structures are subvertical, and true widths estimated at approximately 50-65% of the down-hole interval.*