

# **Appendix A**

## **Engineering Take-Offs/ Quantities**

**Stockpiles - Dozer Regrade**

Stockpile	Volume (CY)	Average Push Distance (ft)
CLW Waste	440838	323.8
NRW - NW	673989	540.7
NRW - SE	26105	94.7
West In-Pit	1681546	795.5
Northern Haul Road	1032816	N/A
Deadman Diversion	47432	20.0

**Stockpiles - Cut and Relocate**

Stockpile	Volume (CY)	Haul to	Segment 1 Distance (ft)	Segment 1 Average Grade (%)	Segment 2 Distance (ft)	Segment 2 Average Grade (%)	Segment 3 Distance (ft)	Segment 3 Average Grade (%)
Northern Haul Road	1032816	Deadman Diversion	390	10.15%	346	-11.51%	-	-
Deadman Diversion	16900	Deadman Diversion	329	-20.04%	-	-	-	-
East In-Pit	48339	Deadman Diversion	325	15.12%	329	0.00%	110	15.81%

**Cover Material**

Stockpile	Volume (CY)	Haul to
CLW Waste	8700	CLW, NRW, West In-Pit, East In-Pit

**Stockpiles - Cover**

Stockpile	2D Area (sf)	Volume (CY)	Haul From	Segment 1 Distance (ft)	Segment 1 Average Grade (%)	Segment 2 Distance (ft)	Segment 2 Average Grade (%)	Segment 3 Distance (ft)	Segment 3 Average Grade (%)
CLW Waste	1679186	2073	CLW	550	15.00%	-	-	-	-
NRW	2240486	2766	CLW	3498	-7.49%	1443	2.10%	-	-
West In-Pit	2144516	2648	CLW	1396	-9.19%	-	-	-	-
East In-Pit	427389	528	CLW	4939	-8.94%	3259	1.87%	1074	-15.00%
Deadman Diversion	555575	686	CLW	4939	-8.92%	3259	1.84%	1074	-15.00%

**Stockpiles - Top Areas**

Stockpile	2D Area (sf)
CLW Waste	123484
NRW	757189
West In-Pit	27358
East In-Pit	344445

**Stockpiles - Stormwater Management**

Stockpile	Bench Channels (ft)	Downdrains (ft)	Energy Dissipator (ea)
CLW Waste	8569	868	2
NRW	6602	1215	1
West In-Pit	10627	1487	0
East In-Pit	0	0	0
Deadman Diversion	2232	798	0

**Flat Revegetation Areas In-Between Facility Closures**

Facility	2D Area (sf)
All Areas	1929798
P-Plant	51462