

APPENDIX J
COVER / LINER CONSTRUCTION ESTIMATES

**TABLE J-1
PHASE 1 MATERIAL ESTIMATES**

	VOLUME (cy)	UNIT COST	SUBTOTAL
LINER			
Clay Liner	7,089	\$ 2.94	\$ 20,823
CLEAN FILL MATERIAL			
Unit 3 Material Fill above DU	110,031	\$ 2.94	\$ 323,210
TOP SLOPE			
Radon Barrier (clay)			
1x10 ⁻⁶ Clay Layer			
Mine, Stockpile and Place	871	\$ 2.99	\$ 2,605
Remove Overburden	285	\$ 2.99	\$ 851
5x10 ⁻⁸ Clay Layer			
Mine, Stockpile, Amend Place	871	\$ 2.99	\$ 2,605
Remove Overburden	285	\$ 2.99	\$ 851
Top Slope Frost Protection Layer (bankrun)	1,307	\$ 3.59	\$ 4,693
Evaporative Zone (clay/loam)	1,611	\$ 2.99	\$ 4,817
Gravel Augment	131	\$ 7.47	\$ 979
			\$ 17,400
SIDE SLOPE			
Radon Barrier (clay)			
1x10 ⁻⁶ Clay Layer			
Mine, Stockpile and Place	864	\$ 2.99	\$ 2,582
Remove Overburden	95	\$ 2.99	\$ 284
5x10 ⁻⁸ Clay Layer			
Mine, Stockpile, Amend Place	864	\$ 2.99	\$ 2,582
Remove Overburden	95	\$ 2.99	\$ 284
Rock Cover			
SS Frost Protection Layer (Clay)	11,775	\$ 2.99	\$ 35,212
Filter Zone	7,850	\$ 68.10	\$ 534,577
Side Rock	11,775	\$138.21	\$ 1,627,520
			\$ 2,203,042
DITCH			
Clay Backfill (compacted)	8,689	\$ 2.99	\$ 25,983
Grading	8,689	\$ 2.41	\$ 20,940
Erosion Materials (rock)	3,867	\$ 7.47	\$ 28,887
INSPECTION ROAD AND FENCE			
Inspection Road base	15,333	\$ 2.99	\$ 45,852
Fence	2,000	\$ 22.35	\$ 44,702
SUBTOTAL			
			\$ 2,730,839
SG&A Overhead Costs (working conditions)		5.50%	\$ 150,196
Contingency		10%	\$ 273,084
Engineering and Redesign		2.25%	\$ 61,444
Profit		10%	\$ 273,084
Management Fee and Legal Expenses		4%	\$ 109,243
DEQ Oversight		4%	\$ 109,243
TOTAL			
			\$ 3,707,113
Cost per Square Foot (waste footprint)			\$ 158

**TABLE J-2
FULL DESIGN MATERIAL ESTIMATES**

	VOLUME (cy)	UNIT COST	SUBTOTAL
LINER			
Clay Liner	415,776	\$ 2.94	\$ 1,221,322
CLEAN FILL MATERIAL			
Unit 3 Material Fill above DU	6,453,522	\$ 2.94	\$ 18,956,889
TOP SLOPE			
Radon Barrier (clay)			
1x10 ⁻⁶ Clay Layer			
Mine, Stockpile and Place	51,090	\$ 2.99	\$ 152,776
Remove Overburden	16,691	\$ 2.99	\$ 49,910
5x10 ⁻⁸ Clay Layer			
Mine, Stockpile, Amend Place	51,090	\$ 2.99	\$ 152,776
Remove Overburden	16,691	\$ 2.99	\$ 49,910
Top Slope Frost Protection Layer (bankrun)			
	76,635	\$ 3.59	\$ 275,145
Evaporative Zone (clay/loam)			
	51,090	\$ 2.99	\$ 152,776
Gravel Augment			
	7,683	\$ 7.47	\$ 57,395
			\$ 890,688
SIDE SLOPE			
Radon Barrier (clay)			
1x10 ⁻⁶ Clay Layer			
Mine, Stockpile and Place	40,535	\$ 2.99	\$ 121,213
Remove Overburden	51,090	\$ 2.99	\$ 152,776
5x10 ⁻⁸ Clay Layer			
Mine, Stockpile, Amend Place	40,535	\$ 2.99	\$ 121,213
Remove Overburden	51,090	\$ 2.99	\$ 152,776
Rock Cover			
SS Frost Protection Layer (Clay)			
	60,803	\$ 2.99	\$ 181,819
Filter Zone			
	40,535	\$ 68.10	\$ 2,760,321
Side Rock			
	60,803	\$ 138.21	\$ 8,403,802
			\$ 11,893,919
DITCH			
Clay Backfill (compacted)	509,620	\$ 2.99	\$ 1,523,926
Grading	509,620	\$ 2.41	\$ 1,228,183
Erosion Materials (rock)	226,807	\$ 7.47	\$ 1,694,259
INSPECTION ROAD AND FENCE			
Inspection Road base	7,219,609	\$ 2.99	\$ 21,588,948
Fence	3,337	\$ 22.35	\$ 74,585
SUBTOTAL			
			\$ 59,072,720
SG&A Overhead Costs (working conditions)			
		5.50%	\$ 3,249,000
Contingency			
		10%	\$ 5,907,272
Engineering and Redesign			
		2.25%	\$ 1,329,136
Profit			
		10%	\$ 5,907,272
Management Fee and Legal Expenses			
		4%	\$ 2,362,909
DEQ Oversight			
		4%	\$ 2,362,909
TOTAL			
			\$ 80,191,218
Cost per Square Foot (waste footprint)			
			\$ 58