

Appendix L Detailed Life of Mine Cost Estimate

Côté Gold Project Closure Plan December 2018

EM,S	ITEM AND DESCRIPTION	QUANTITY	UNIT	UNIT		RECT/SC MH	Progressive	LABOR	SUB-CONT.	TOTAL	Contingency		TOTAL
CCode		·		COST	UNIT	TOTAL \$/MH	Rehabilitation				%	Dollars	Including Continge
1000	Mine and Related Facilities Closure						Post-Closure Pit						
1100	Ore Stockpiles and Mine Rock Areas						Filling						
	Decommission Sediment Basins	I		<u> </u>									
S	Remove, Regrade and Vegetate Sediment Basins No Longer Required (7 Each at 25,000 sm Average)	175,000	m2	\$3.78	0.0116	1,416	30%		\$661,850	\$661,850	15	\$99,278	\$761,128
		·		ļļ	l								
	Mine Rock Area (Total Plan Area = 280 HA, Flat Areas = 180 HA at 25% Use 450000 m2)	725.000		¢1.47	0.0075	0.175	(00/		¢1.0(4.200	¢1.064.200	15	¢150 (21	¢1.000.041
S	Regrade (Total 180 Ha Non-Slope Areas - Provide Grading for 60% (50% of 110 +25% of 70))	725,000	m2	\$1.47	0.0075	2,175	60%		\$1,064,209	\$1,064,209	15	\$159,631	\$1,223,841
S	Haul and Place 200 mm Vegetative Cover (25% Over All Flat Areas)	450,000	m2	\$4.63	0.0081	1,462	60%		\$2,082,713	\$2,082,713	10	\$208,271	\$2,290,985
S	Slope Drains - Cut and Fill for Side Slope/Bench Drains Slope Drains - Provide Erosion Control as Needed	42,700	lm	\$16.30	0.1200	2,050	60%		\$696,010	\$696,010	10	\$69,601	\$765,611
S	Stope Drains - Provide Erosion Control as Needed	34,400	m2	\$22.08	0.0769	1,058	60%		\$759,639	\$759,639	15	\$113,946	\$873,585
	Onsite Demolition Landfill for Disposal of 40,000 Cubic Meters of Debris				l								
S	Excavate and Stockpile Material for Final Grading and Cover	30,000	m3	\$2.00	0.0075	225	None		\$60,000	\$60,000	15	\$9.000	\$69,000
S	Place and Compact Debris in Landfill	18,432	m3	\$5.55	0.0200	369	None		\$102,296	\$102,296	15	\$15,344	\$117,641
S	Place 0.15 Meters of Cover Soil	7,500	m3	\$3.00	0.0100	75	None		\$22,500	\$22,500	15	\$3,375	\$25,875
				1						,		<u>,</u>	
	Ore Stockpile Areas												
S	Regrade Area (40% Before Mine Year 17)	700,000	m2	\$1.47	0.0075	3,150	40%		\$1,027,513	\$1,027,513	15	\$154,127	\$1,181,639
S	Place Growth Medium (0.2 m depth) Provide for 50% of area	350,000	m2	\$4.63	0.0081	1,705	40%		\$1,619,888	\$1,619,888	10	\$161,989	\$1,781,877
S	Reconstruct Natural Channel (650 m x 50 m)	163,000	m3	\$3.26	0.0240	2,347	40%		\$531,380	\$531,380	15	\$79,707	\$611,087
		I]		ļ!	 								
	Overburden Stockpile Area	I		ļ!	 								
S	Regrade Area	401,000	sm	\$1.47	0.0075	902	70%		\$588,618	\$588,618	15	\$88,293	\$676,911
S	Place Growth Medium (0.2 m depth) Provide for 50% of area	200,500	sm	\$4.63	0.0081	488	70%		\$927,964	\$927,964	10	\$92,796	\$1,020,761
	Subtotal Ore Stockpiles and Mine Rock Areas					17,422				\$10,144,581	12%	\$1,255,358	\$11,399,939
	Subtotal Ore Stockpiles and Mille Rock Areas					17,422				\$10,144,381	\$2.965	\$1,233,338	\$11,399,939
1200	Open Pit Mine Filling			├ ───┦	 +						\$2,903		
1200		·			l								
	Costs Specific to the Pit Filling are Not Anticipated			 	 +						\$327		
1300	Open Pit Mine Equipment	·		├ ───┦	l								
1500	Decommission and Prepare for Transport and Load all Mining Equipment												
	It is assumed that all major mine equipment is included in a Capital Lease and as such will need to be returned to the Lessor. Equipment will	·		+	l								
	be prepared for transport, loaded and transported to Toronto. Support and other minor equipment are prepared for transport and loaded	1			1								
	with net transport costs equal to scrap value.	1											
S	Decommission, Prepare for Transport and Load Equipment	296	loads	\$2,005.58	17.00	4,026	20%		\$593,637	\$593,637	15	\$89,046	\$682,683
S	Transport Equipment to Toronto	5,920	tonne	\$150.00	17.00	OffSite	20%		\$887,980	\$887,980	15	\$133,197	\$1,021,178
5	Major Equipment List (Return Leased Equipment to Lessor Only)	5,720	tonne	Unit Cost	Weight Kg	\$/Kg	Total Weight		Total Value	\$007,900	15	φ155,177	\$1,021,170
S	Crawler-Mounted, Rotary Tri-Cone, 311 mm Dia - 4 ea	4		\$2,000,000.00	50000.00	\$40.00	200,000		\$8,000,000				
S	Diesel, 22-cu-m Front Shovel - 3 ea	3		\$7,032,000.00	361000.00	\$19.48	1,083,000		\$21,096,000				
S	Diesel 20-cu-m Wheel Loader - 1 ea	1		\$4,633,000.00	178000.00	\$26.03	178,000		\$4,633,000				
S	220-t class Haul Truck - 24 ea	24	·	\$4,082,000.00		\$25.35	3,864,000		\$97,968,000				
S	Crawler-Mounted, Rotary Tri-Cone, 115mm Dia - 1 ea	1		\$580,000.00	26000.00	\$22.31	26,000		\$580,000				
S	D375A-class Track Dozer - 5 ea	5		\$1,100,000.00	57000.00	\$19.30	285,000		\$5,500,000				
S	WD600-class Rubber Tire Dozer - 2 ea	2		\$999,900.00	46000.00	\$21.74	92,000		\$1,999,800				
S	GD825-class Grader - 4 ea	4	·	\$765,000.00	26000.00	\$29.42	104,000		\$3,060,000				
S	140 t-class Water Truck - 1 ea	1		\$773,000.00	40000.00	\$19.33	40,000		\$773,000				
S	Other Miscellaneous Support Equipment	15	%	\$1,436,098.00	47869.93	\$30.00	47,870		\$21,541,470				
							5,919,870		\$165,151,270				
				ļ/									
	Subtotal Open Pit Mine Equipment				·	4,026				\$1,481,618		\$222,243	\$1,703,860
1400	Open Pit Mine Infrastructure			├ ───┦	 +								
1400 S	Boulder Fence (2,300 10-ton and 2,300 5-ton Boulders (Load, Haul and Place Boulders) Mine Year 8 - 40%, Year 13 - 30%, Year 17 - 30%	39,100	tonnes	\$3.35	0.0063		100%		\$131,173	\$131,173	20	\$26,235	\$157,408
5	Closure Stability Assessment	39,100	Lot	\$50,000.00	0.0003	Office	10070		\$50,000	\$131,175	20	\$20,233	\$137,408
S		5,000	lm	\$20.00	0.1500	750	None		\$100,000	\$100,000	20	\$20,000	\$120,000
S S	Allowance for Pit Rim Erosion Protection and Revegetation	.).()()()	ш.										÷1=0,000
S S S	Allowance for Pit Rim Erosion Protection and Revegetation Allowance for Littoral Zone Enhancements (near the end of pit filling - fish habitat improvements)						100%			\$270,000			\$324,000
S	Allowance for Pit Rim Erosion Protection and Revegetation Allowance for Littoral Zone Enhancements (near the end of pit filling - fish habitat improvements) Emulsion Plant	90,000	m2	\$3.00	0.0200				\$270,000		20	\$54,000	\$324,000

EM,S	ITEM AND DESCRIPTION	QUANTITY	UNIT	UNIT		I/SC MH	Progressive	LABOR	SUB-CONT.	TOTAL	Contingency I	Evaluation	TOTAL
CCode				COST		TAL \$/MH	Rehabilitation				%	Dollars	Including Continge
S	Remove Contaminated Soil and Dispose in MRA Landfill (assume 20% of Area at 15 cm)	736	m3	\$10.00	0.0750	55	None		\$7,360	\$7,360	15	\$1,104	\$8,464
S	Regrade Area and Access Road	25,600	m2	\$1.47	0.0075	192	None		\$37,578	\$37,578	15	\$5,637	\$43,214
S	Place Growth Medium (0.2 m depth) Provide for 50% of area	12,800	m2	\$4.63	0.0081	104	None		\$59,242	\$59,242	10	\$5,924	\$65,166
S	Runoff, Erosion and Sediment Control												
S	Construct Controls in the Waste Rock Management Areas	6	days	\$17,700.00	100.0000	600	None		\$106,200	\$106,200	15	\$15,930	\$122,130
	Reclaim Roads in Pit Area not Required for OM&M of the Site (All Roads Included with WBS 2200)												
	Subtedal Owen Bit Mine Inforetunetune									¢0 0 0,000		¢140.000	**
	Subtotal Open Pit Mine Infrastructure				2	2,001				\$828,080		\$148,809	\$976,888
	Total Code 1000 - Mine and Related Facilities Closur	re			22	.449				\$12,454,278		\$1,626,409	\$14,080,687
	i otar Couc 1000 - Mine and Related Pacifices Closur				23	,449				\$12,434,278		\$1,020,409	\$14,080,087
2000	Mine Site Infrastructure, Building and Facilities Demolition and Closure												
2000 2100	Site Area Preparation, Regrading and Revegetation												
2100	Revegetation of Plant Area and Drainage Controls												
S	Regrade Plantsite Area/Cover Concrete/ Recontour Area	640,000	m2	\$1.47	0.0075 4	,800	None		\$939,440	\$939,440	10	\$93,944	\$1,033,384
S	Place Growth Medium (0.2 m depth) Provide for 50% of area	320,000	m2	\$4.63		2,599	None		\$939,440	\$1,481,041	10	\$148,104	\$1,629,145
S	Runoff, Erosion and Sediment Control - Construct Controls in the Process Plant Areas	20	days	\$17,700.00		2,000	None		\$354,000	\$354,000	15	\$53,100	\$407,100
5	Runon, Erosion and Sedment Control - Construct Controls in the Process Plant Areas	20	uays	\$17,700.00	100.00 2	.,000	None		\$554,000	\$334,000	15	\$55,100	\$407,100
	Gut All Buildings Prior to Demolition, Salvage Materials/Equipment and Ship Offsite												
S	Gut this bandings i nor to benonton, ou vage indentities Equipment and only of site	31,559	sm	\$22.07	0.1800 5	5,681	None		\$696,534	\$696,534	20	\$139,307	\$835,840
S	Salvage Equipment with useful life and transport offsite (Assume 30% to Timmins, 45% to Sudbury and Remaining to Toronto)	394	loads	\$2,005.58		5,705	None		\$791,000	\$791,000	20	\$158,200	\$949,200
S	Total of 130 - 20-tonne loads	130	loads	\$1,425.00		Site	None		\$185,250	\$185,250	20	\$37,050	\$222,300
S	Recycle Debris From Building Demolition (Mostly Steel to Scrappers)	264	loads	\$2,160.00		Site	None		\$571,105	\$571,105	20	\$114,221	\$685,326
S	Allowance to Remove and Dispose of Hazardous Waste (\$400 per drum + \$200 shipping)	200	Drums	\$600.00					\$120,000	\$120,000	20	\$24,000	\$144,000
S	Allowance to Remove and Dispose of Special Waste (Contaminated soil, Concrete, etc)	400	tonnes	\$500.00					\$200,000	\$200,000	20	\$40,000	\$240,000
S	Allowance to Dispose of Municipal Waste in Either Timmins or Sudbury	1,000	tonnes	\$240.00					\$240,000	\$240,000	20	\$48,000	\$288,000
	Close Onsite Demolition Debris Landfill (140 meters Diameter x 3 meters deep)												
S	Install Foundation Layer (Select Material)	16,300	m2	\$6.00	0.0375	611	None		\$97,800	\$97,800	15	\$14,670	\$112,470
S	Deliver Geosynthetics for Cap	5	loads	\$3,000.00	Off	Site	None		\$15,000	\$15,000	15	\$2,250	\$17,250
S	Install Impermeable Cap	16,300	m2	\$12.26	0.0500	815	None		\$199,894	\$199,894	10	\$19,989	\$219,883
S	Place Soil Protective Layer	17,200	m3	\$6.00	0.0375	645	None		\$103,200	\$103,200	15	\$15,480	\$118,680
S	Place Growth Medium (0.2 m depth) Provide for 100% of area	20,000	m3	\$4.63	0.0081	162	None		\$92,565	\$92,565	10	\$9,257	\$101,822
	Subtotal Site Preparation				24	,018				\$6,086,828		\$917,572	\$7,004,400
2200	On-Site Roads												
S	Grade Out Roads, Pipeways and Disturbed Areas (Excluding Roads/Access Needed for OM&M)	294,000	m2	\$2.10		2,293	10%		\$617,586	\$617,586	15	\$92,638	\$710,224
S	Place Growth Medium (0.2 m depth) Provide for 50% of area	147,000	m3	\$4.63	0.0081 1	,074	10%		\$680,353	\$680,353	10	\$68,035	\$748,388
	Subtotal On-Site Roads				3	,368				\$1,297,939		\$160,673	\$1,458,613
2300	Construction and Operations Camp Accommodations Area												
S	Permanent Accommodations Camp Complex Demolition	24,730	cm	\$16.63		,855	None		\$411,303	\$411,303	15	\$61,695	\$472,999
S	Regrade/Recontour Area	90,000	sm	\$1.47		675	None		\$132,109	\$132,109	15	\$19,816	\$151,925
S	Place Growth Medium (0.2 m depth) Provide for 50% of area	45,000	m3	\$4.63	0.0081	365	None		\$208,271	\$208,271	10	\$20,827	\$229,098
	Subtotal Construction and Operations Camp Accommodations Area				2	2,895				\$751,683		\$102,339	\$854,022
0.400		_					2.1		 				
2400	On-Site Bulk Storage				0.0750	297	None		¢07.610	05 (10		¢10.040	#00.472
S	Heated and Cold Storage Facility Demolition	5,148	cm	\$16.63	0.0750	386	None		\$85,619	\$85,619	15	\$12,843	\$98,462
	Subtotal On-Site Bulk Storage					296				\$85,619		\$12,843	\$98,462
	Subtotal On-Site Durk Storage					386				\$65,019		\$12,043	\$98,402
2500	On-Site Utilities												
2300 S	Sewage Treatment Plant Demolition	1	day	\$33,263.50	150.00	150	None		\$33,264	\$33,264	20	\$6,653	\$39,916
S	Provide for Removal of Seepage Water Pipelines as Ponds Removed	20,000	lm	\$15.00		203	90%		\$300,000	\$300,001	20	\$60,000	\$360,001
5	Torrae for Removal of Scopage (Faller Tiperines as Folios Removed	20,000	1111	φ15.00	0.10	200	2070		\$500,000	\$500,001	20	<i>400,000</i>	\$300,001
	Subtotal On-Site Utilities					353				\$333,264		\$66,653	\$399,917
2600	On-Site Communications												
		- 1		11					· · · · · · · · ·			-	

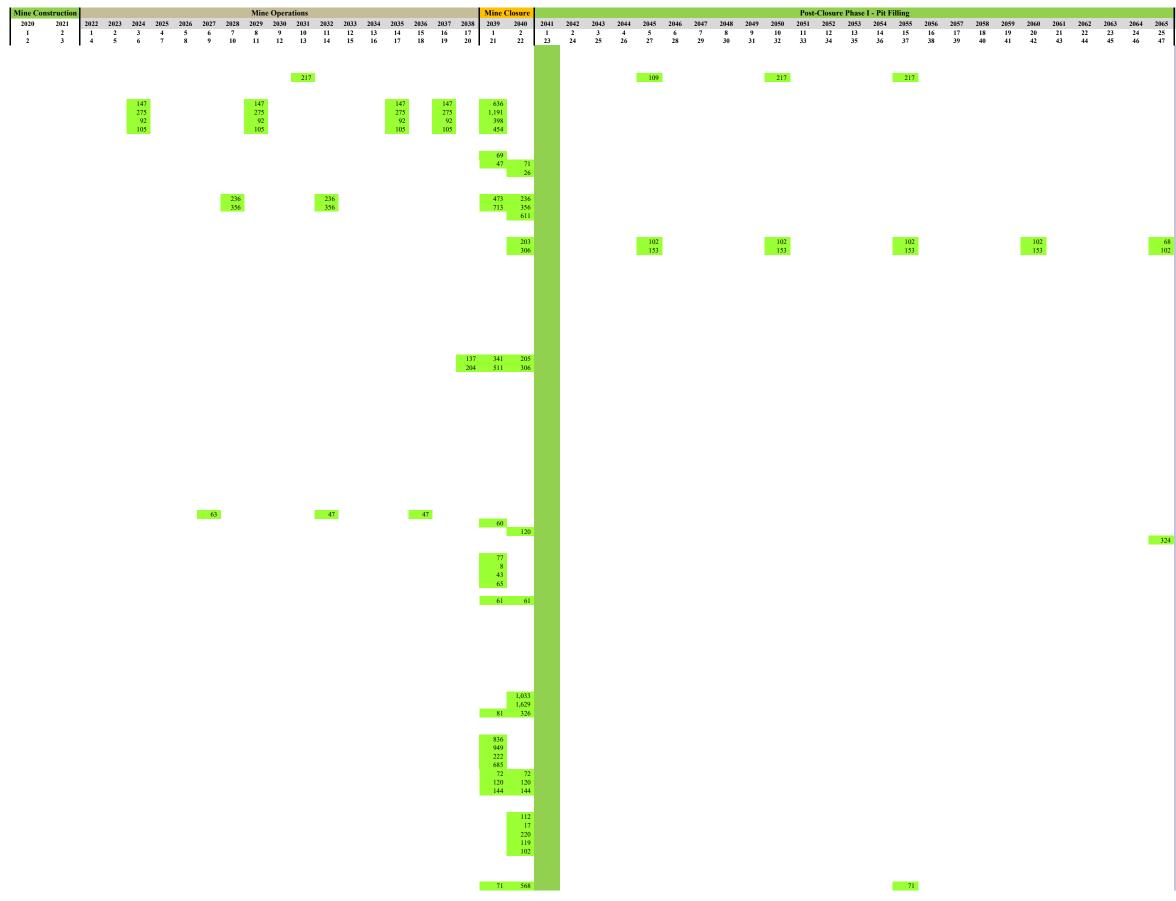
EM,S	ITEM AND DESCRIPTION	QUANTITY	UNIT	UNIT	DI	RECT/SC N	111		LABOR	SUB-CONT.	TOTAL	Contingency E	voluction	TOTAL
CCode	HEM AND DESCRIPTION	QUANTITI	UNII	COST	UNIT	TOTAL	\$/MH	Progressive	LADOK	SUB-CONT.	IOTAL	Contingency E	Dollars	Including Continge
S	Allowance to Remove Communications Equipment/Repeaters etc.	1	lot	\$50,000.00	312.50		\$/1 v111	Rehabilitation None		\$50,000	\$50,000	20	\$10,000	\$60,000
5	Anovance to Remote Communications Equipment Repeaters etc.	1	101	\$50,000.00	512.50	515		rtone		\$50,000	\$50,000	20	\$10,000	\$00,000
	Subtotal On-Site Communications					313					\$50,000		\$10,000	\$60,000
2700	On-Site Power Supply and Distribution													
S	Remove and Dispose of Onsite Overhead Power Distribution	16,000	lm	\$11.00	0.0773	124		90%		\$176,000	\$176,001	20	\$35,200	\$211,201
S	Remove and Dispose of Onsite Underground Power Distribution (Allowance for UG Duct Banks in Plant Area)	2,000	lm	\$40.00	0.2500	500		None		\$80,000	\$80,000	20	\$16,000	\$96,000
	Subtotal On-Site Power Supply and Distribution					624					\$256,001		\$51,200	\$307,201
2800	Offices and Personnel Buildings													
S	Security Gatehouse and Control	210	cm	\$16.63	0.0750	16		None		\$3,491	\$3,491	15	\$524	\$4,015
S	Mine Dry Building	3,733	cm	\$16.63	0.0750	280		None		\$62,084	\$62,084	15	\$9,313	\$71,396
S	Administration Office Building	5,358	cm	\$16.63	0.0750	402		None		\$89,117	\$89,117	15	\$13,368	\$102,484
S	Emergency Vehicles Storage and First Aid Facility	2,229	cm	\$16.63	0.0750	167		None		\$37,071	\$37,071	15	\$5,561	\$42,632
	Subtotal Offices and Personnel Buildings					865					\$191,762		\$28,764	\$220,527
2900	Laboratories, Shops and Warehousing													
S	Truck Shop Building	58,384	cm	\$16.63	0.0750	4,379		None		\$971,028	\$971,028	15	\$145,654	\$1,116,682
S	Warehouse Facility	15,250	cm	\$16.63	0.0750	1,144		None		\$253,634	\$253,634	15	\$38,045	\$291,679
S	Truck Wash Facility	4,099	cm	\$16.63	0.0750	307		None		\$68,177	\$68,177	15	\$10,227	\$78,403
S	Assay Laboratory Building	1,905	cm	\$16.63	0.0750	143		None		\$31,682	\$31,682	15	\$4,752	\$36,434
S	Metallurgical Laboratory	320	cm	\$16.63	0.0750	24		None		\$5,322	\$5,322	15	\$798	\$6,120
	Subtotal Laboratories, Shops and Warehousing					5,997					\$1,329,843		\$199,476	\$1,529,320
	Total Code 2000 - Mine Site Infrastructure, Buildings and Facilities Demolition and Closure					38,818					\$10,382,941		\$1,549,521	\$11,932,461
-	Processing Plant													
3100	Ore Handling Facilities	1								****				
S	Primary and Secondary Crushing	17,178	cm	\$22.18	0.10	1,718		None		\$380,934	\$380,934	15	\$57,140	\$438,074
S	Conveyors	11,125	cm	\$22.18	0.10	1,113		None		\$246,704	\$246,704	15	\$37,006	\$283,710
S	Coarse Ore Stockpile Enclosure	204,000	cm	\$2.22	0.01	2,040		None		\$452,384	\$452,384	15	\$67,858	\$520,241
	Subtotal Ore Handling Facilities					4.070					¢1.000.0 2 1		\$162,003	¢1.040.005
	Subiotal Ore Handling Facilities					4,870					\$1,080,021		\$162,003	\$1,242,025
2200	Process Plant													
3200		250 701		\$22.18	0.10	25.070		News		¢5 5(1 450	¢5 5(1 450	10	¢55(14(¢(117 (02
S S	Process Building/CIP/Electrowinning and Refining Concrete Demolition (Above Grade Only - Cover all concrete with minimum 0.6 meter fill as part of regrading.	250,791 3,571	cm	\$22.18	0.10 1.6953	25,079 6,054		None None		\$5,561,458 \$1,107,008	\$5,561,458 \$1,107,008	10	\$556,146 \$166,051	\$6,117,603 \$1,273,060
3	Concrete Demontion (Above Grade Only - Cover an concrete with minimum 0.6 meter in as part of regrading.	5,571	cm	\$310.00	1.0933	0,034		INORE		\$1,107,008	\$1,107,008	15	\$100,031	\$1,275,000
	Subtotal Process Plant					31,133					\$6,668,466		\$722,197	\$7,390,663
						51,155					\$0,000,400		\$122,191	\$7,390,003
	Total Code 3000 - Processing Plant					36,003					\$7,748,487		\$884,200	\$8,632,688
	Fotal Couc 5000 - Frocessing Franc					50,005					φ/,/+0,+0/		\$664,200	\$6,052,088
4000	Tailings and Water Management													<u> </u>
4000	Runoff, Erosion and Sediment Control													
4100 S	Construct Controls in the TMF Area	12	days	\$17,700.00	100.00	1,200		None		\$212,400	\$212,400	20	\$42,480	\$254,880
5		12	uays	\$17,700.00	100.00	1,200		None		\$212,400	\$212,400	20	\$72,700	\$254,000
	Subtotal Runoff, Erosion and Sediment Control					1,200					\$212,400		\$42,480	\$254,880
						1,200					<i><i><i>q</i>212,100</i></i>		÷.2,100	φ25-τ,000
4200	Tailings Management Facility													
-1200 S	Outflow Channel to Bagsvard Lake (700 meters, nominal 30 meter wide by 3 meter deep)	63,000	m3	\$8.42	0.04	2,221		None		\$530,316	\$530,316	15	\$79,547	\$609,863
S	Upgrade the Spillway to 220 meters wide	20,000	m3	\$10.94	0.04	917		None		\$218,860	\$218,860	15	\$32,829	\$251,689
S	Select and Stockpile Riprap	502,000	m3	\$8.65	0.03	17,431		1.5110		\$4,342,300	\$4,342,300	15	\$651,345	\$4,993,645
S	Excavate Drainage Network for TMF Surface	902,000	m3	\$3.15	0.03	12,069				\$2,841,300	\$2,841,300	15	\$426,195	\$3,267,495
S	Load, Haul and Place Riprap for TMF Top Deck Drainage	502,000	m3	\$9.32	0.03	15,561				\$4,678,640	\$4,678,640	15	\$701,796	\$5,380,436
S	Grade TMF Surface for Placement of Growth Medium	2,048,300	m2	\$1.47	0.03	15,362				\$3,006,648	\$3,006,648	15	\$450,997	\$3,457,646
S	Place Growth Medium (0.2 m depth) Provide for 50% of slope and 90% of Flat (slope 700,000 sm, Flat 1,887,000 sm)	2,048,300	m2	\$2.73	0.0081	16,634				\$5,586,273	\$5,586,273	10	\$558,627	\$6,144,900
		_,:::0,000		<i>42.,9</i>	5.0001		<u></u>			£2,200,270	<i>,</i>		<i></i>	<i>,,</i>
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EM,S	ITEM AND DESCRIPTION	QUANTITY	UNIT	UNIT	DI	IRECT/SC MH	[Progressive	LABOR	SUB-CONT.	TOTAL	Contingency H	Evaluation	TOTAL
CCode				COST	UNIT	TOTAL	\$/MH	Rehabilitation				%	Dollars	Including Continge
	Subtotal Tailings Management Facility					80,195					\$21,204,337		\$2,901,337	\$24,105,674
4300	Storm Water/Mine Water Pond													
S	Pump Mine Water Pond to Pit (Allowance)	1	lot	\$50,000.00	195.31	195		None		\$50,000	\$50,000	20	\$10,000	\$60,000
S	Fill Pond	65,000	m3	\$10.50	0.04	2,708		None		\$682,669	\$682,669	15	\$102,400	\$785,070
S	Place Growth Medium (Included with Plant Area Code 2100 Above)													
	Subtotal Storm Water/Mine Water Pond					2,904					\$732,669		\$112,400	\$845,070
4400	Seepage Ponds and Restoration of Natural Drainage	••••		** *	0.04			1000/		A = = < 100	A		****	\$0.50 0.51
S	Remove, Regrade and Vegetate Sediment Basins No Longer Required (8 Each at 25,000 sm Average)	200,000	m2	\$3.78	0.01			100%		\$756,400	\$756,401	15	\$113,460	\$869,861
S	Breach Watercourse Dams to Restore Natural Flow (Total of 9 Dams at 1/2 day per Dam)	5	days	\$14,678.75	75.00			100%		\$73,394	\$73,395	15	\$11,009	\$84,404
S	Grade Channel from New Lake to Three Duck Lake (Nominal 1500 Meters x 10 Meters x 3 Meters)	45,000	cm	\$8.42	0.04			100%		\$378,797	\$378,798	15		\$378,798
	Subtotal Seepage Ponds and Restoration of Natural Drainage										\$1,208,594		\$124,469	\$1,333,063
4500	Polishing Pond and Water Reclaim Pond and Watercourses						·							
S	Breach and Grade Out Dams	5	days	\$14,678.75	75.00			100%		\$73,394	\$73,395	15	\$11,009	\$84,404
S	Load, Haul and Place Mine Rock from the MRA (226,000 sm at 0.5 Meters Average)	113,000	cm	\$10.50	0.04			100%		\$1,186,794	\$1,186,795	15	\$178,019	\$1,364,815
S	Place Growth Medium (0.2 m depth) Provide for 50% of area	226,000	sm	\$4.63	0.01			100%		\$1,045,985	\$1,045,986	15	\$156,898	\$1,202,884
	Subtotal Polishing Pond and Water Reclaim Pond										\$2,306,176		\$345,926	\$2,652,102
	Subtour Fonsming Fond and Water Reclaim Fond										\$2,500,170		\$545,720	\$2,032,102
4600	TMF Roads (All Roads are Included in WBS 2200													
	Total Code 4000 - Tailings and Water Management					84,298					\$25,664,176		\$3,526,613	\$29,190,789
6000	Off-Site Facilities													
6100	Main Power Line													
S	Remove Conductors (Recycle), Hardware and Structures and Haul Debris to On-Site Landfill	44,000	m	\$11.50	0.08		NotCamp	100%		\$506,000	\$506,001	10	\$50,600	\$556,601
S	(Assume Structures 200 meters C-C average) Crew and Equipment 8 men x \$80 plus 6 Equip at \$400 per hour - Total \$8,800 per day)	220	ea	\$2,300.00										
	Subtotal Main Power Line										\$506,001		\$50,600	\$556.601
											\$200,001		<i>\$20,000</i>	\$550,001
6200	Water Supply													
S	Remove Pumps, Intake structure and Pumphouse (Allowance)	1	lot	\$50,000.00		313		None		\$50,000	\$50,000	20	\$10,000	\$60,000
S	Remove Fresh Water Pipeline to Camp	6,600	m	\$15.00	0.10	671		None		\$99,000	\$99,000	15	\$14,850	\$113,850
S	Remove Fresh Water Pipeline to Plant	2,000	m	\$15.00	0.10	207		None		\$30,000	\$30,000	15	\$4,500	\$34,500
	Subtotal Water Supply					1,191					\$179,000		\$29,350	\$208,350
											A (0.5 0.04			
	Total Code 6000 - Off-Site Facilities					1,191					\$685,001		\$79,950	\$764,951
	TOTAL DIRECT COTE MINE CLOSURE COSTS					183,759					56,934,883		7.666.694	64,601,577
	TOTAL DIRECT COTE MILLE CLOSORE COSTS					105,755					50,751,005		7,000,071	01,001,077
7000	Site Services and Project Indirects Related to Mine Closure Construction													
	Expense For Each Construction Season													
	Contractors Mobilization, Demobilization and Final Cleanup													
S	Mobilization of Equipment (2 special, 12 from Toronto, 24 from Timmins/Sudbury and 18 Trailer/Container)	1	lot	\$122,600.00						\$122,600	\$122,600	10	\$12,260	\$134,860
S	Mobilization of Manpower (Peak +20%)	84	Men	\$480.00						\$40,320	\$40,320	10	\$4,032	\$44,352
S	Site Cleanup	6	days	\$16,077.50	140.00	840				\$96,465	\$96,465	10	\$9,647	\$106,112
S	Demobilization of 50% of Equipment and 100% of Manpower	1	lot	\$122,600.00						\$122,600	\$122,600	10	\$12,260	\$134,860
	Construction Monogoment													
	Construction Management Field Staff of 11 Persons Planned for Each of 2 Construction Seasons													
	Month 1 of Construction Season at 50% and Month 8 at 50% (Total Use 35 weeks at 60 x 11 =23100 Hours)	+												
S	Month 1 of Construction Season at 50% and Month 8 at 50% (1 otal Use 55 weeks at 60 x 11 =25100 Hours) Month 1 of Each Construction Season	1,313			1.00	1,313	\$83.55		\$109,656		\$109,656	10	\$10,966	\$120,622
S	Month 7 of Each Construction Season Month 2 through 7 of Each Construction Season	1,515			1.00		\$83.55		\$1,315,875		\$1,315,875	10	\$10,988	\$1,447,463
S	Month 2 through 7 of Each Construction Season	1,313			1.00		\$83.55		\$1,313,873		\$1,515,875	10	\$131,388	\$1,447,403
S	Provide for Survey Crew (Month 1 Two Weeks, Month 2 -7 Four Days per Month and Two weeks Month 8	480			1.00		\$210.00		\$100,800		\$100,800	10	\$10,080	\$110,880
~		100			1.00		÷=10.00		\$100,000		\$100,000	10	\$10,000	\$110,000

EM,S	ITEM AND DESCRIPTION	QUANTITY UNIT	UNIT	DI	RECT/SC MH	Drogragiya	LABOR	SUB-CONT.	TOTAL	Contingency E	valuation	TOTAL
CCode		C	COST		TOTAL \$/MH	Progressive Rehabilitation				%	Dollars	ncluding Continge
						Rendomitation						
	Temporary Facilities (Assume Rental/Lease) (Assume 50% of first Year Use Existing)											
S	Office Trailer(s) 4 units	16 mo	\$2,400.00					\$38,400	\$38,400	10	\$3,840	\$42,240
S	Tool Trailers (6)	16 mo	\$1,800.00					\$28,800	\$28,800	10	\$2,880	\$31,680
S	Storage Containers (Materials/Supplies/Consumables) (8)	16 mo	\$1,600.00					\$25,600	\$25,600	10	\$2,560	\$28,160
	Field Expenses (Assume 50% for first Year - Use Existing)											
S	Office Equipment	12 mo	\$1,000.00					\$12,000	\$12,000	10	\$1,200	\$13,200
S	Office and Safety Supplies (Field Staff)	12 mo	\$500.00					\$6,000	\$6,000	10	\$600	\$6,600
S	Communications, Radios, Telephones, Internet	12 mo	\$2,000.00					\$24,000	\$24,000	10	\$2,400	\$26,400
S	Vehicles (Provide 5 Vehicles for Onsite Use)	5,250 VehHr	\$15.00					\$78,750	\$78,750			\$78,750
	Utilities (Camp Utilities are covered in Cost Per Camp Man Day)											
	Power (Allocated to Pumping) Included under OM&M Below		\$0.08									
S	Power (Allocated to Construction) 150 Kw at 80% on Average	705,600 Kwh/Year	\$0.08					\$52,920	\$52,920	15	\$7,938	\$60.858
S	Power for Camp Operation - Included with Camp Cost.	Kwh/Year	\$0.08					\$52,720	\$52,720	15	\$7,750	\$00,858
S	Propane (Generally Included with Camp Cost) Allow for Heaters in Offices/Tool Trailers/Storage as Needed	1 year	\$20,000.00					\$20,000	\$20,000	20	\$4,000	\$24,000
5	Topane (Generally included with Camp Cost) fillow for frequents in Offices Tool francissionage as received	1 year	\$20,000.00					\$20,000	\$20,000	20	\$4,000	\$24,000
	Maintenance During Closure Construction and Care and Maintenance (see below)											
S	Camp Operation and Maintenance ((Total Hours/10/6*7)Plus 15% for visitors)	14,970 1 Year	\$80.00		223,149 2 Years			\$1,197,568	\$1,197,568	15	\$179,635	\$1,377,203
	Other Indirect Costs	<u> </u>					<u> </u>	 				
S	Performance Bond Applicable to Work Performed as Part of the Final Remediation Plan (Use \$12.00/\$1000)											
S	Provide Home Office Management of Overall Project During the Closure Construction Phase (6% of Direct Costs)	6 %										
5		0 /0										
	Site Services and Project Indirects Related to Closure Construction	n			19,695				\$3,502,010	11.6176%	\$406,850	\$3,908,860
0000	Site Operations, Maintenance and Monitoring											
9000 9100	During Permitting, Engineering and Construction (Included in Capital Cost)											
9100	During Mine Operations (Included in Mine Operations Costs)											
7200	During white Operations (included in white Operations Costs)											
9300	During Closure (2 Years)											
	Provide OM&M During Active Closure (8 Months per Year) and Inspection/Maintenance (4 Months per Year)											
	Equipment Maintenance is Included With the Equipment Cost											
	Equipment Municipalities is included with the Equipment Cost											
	Camp Maintenance is Included with the Cost per Camp Man Day											
	Camp Maintenance is Included with the Cost per Camp Man Day Pumping Operations Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter											
S	Camp Maintenance is Included with the Cost per Camp Man Day Pumping Operations Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter Power Cost for Operation and Normal Maintenance of Site Pumps	1,944,000 Kwh	\$0.08					\$145,800	\$145,800	20	\$29,160	\$174,960
	Camp Maintenance is Included with the Cost per Camp Man Day Pumping Operations Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter Power Cost for Operation and Normal Maintenance of Site Pumps Total Estimated Pumping is 42 cubic Meters per Minute - Assume High volume, low head pumps at total of 500 Horsepower	1,944,000 Kwh	\$0.08					\$145,800	\$145,800	20	\$29,160	\$174,960
S	Camp Maintenance is Included with the Cost per Camp Man Day Pumping Operations Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter Power Cost for Operation and Normal Maintenance of Site Pumps Total Estimated Pumping is 42 cubic Meters per Minute - Assume High volume, low head pumps at total of 500 Horsepower Maintenance/Replacement Reserve for Pumps is included below	1,944,000 Kwh	\$0.08					\$145,800	\$145,800	20	\$29,160	\$174,960
	Camp Maintenance is Included with the Cost per Camp Man Day Pumping Operations Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter Power Cost for Operation and Normal Maintenance of Site Pumps Total Estimated Pumping is 42 cubic Meters per Minute - Assume High volume, low head pumps at total of 500 Horsepower Maintenance/Replacement Reserve for Pumps is included below Maintenance/Replacement Reserve for Emergency Generators is Included Below	1,944,000 Kwh	\$0.08					\$145,800	\$145,800	20	\$29,160	\$174,960
S	Camp Maintenance is Included with the Cost per Camp Man Day Pumping Operations Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter Power Cost for Operation and Normal Maintenance of Site Pumps Total Estimated Pumping is 42 cubic Meters per Minute - Assume High volume, low head pumps at total of 500 Horsepower Maintenance/Replacement Reserve for Pumps is included below Maintenance/Replacement Reserve for Emergency Generators is Included Below Conduct Site Operations - Annual Expense During Closure	1,944,000 Kwh	\$0.08					\$145,800	\$145,800	20	\$29,160	\$174,960
S	Camp Maintenance is Included with the Cost per Camp Man Day Pumping Operations Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter Power Cost for Operation and Normal Maintenance of Site Pumps Total Estimated Pumping is 42 cubic Meters per Minute - Assume High volume, low head pumps at total of 500 Horsepower Maintenance/Replacement Reserve for Pumps is included below Maintenance/Replacement Reserve for Emergency Generators is Included Below Conduct Site Operations - Annual Expense During Closure Labor (Two Crews of Two persons - 2 Weeks On and Two Off - Paid 10 Hours/Day		\$0.08				£147.000	\$145,800				
S	Camp Maintenance is Included with the Cost per Camp Man Day Pumping Operations Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter Power Cost for Operation and Normal Maintenance of Site Pumps Total Estimated Pumping is 42 cubic Meters per Minute - Assume High volume, low head pumps at total of 500 Horsepower Maintenance/Replacement Reserve for Pumps is included below Maintenance/Replacement Reserve for Emergency Generators is Included Below Conduct Site Operations - Annual Expense During Closure Labor (Two Crews of Two persons - 2 Weeks On and Two Off - Paid 10 Hours/Day Site Supervisor (Mechanic)	2,450 MH	\$0.08	1.00	2,450 \$60.00		\$147,000	\$145,800	\$147,000	10	\$14,700	\$161,700
S S	Camp Maintenance is Included with the Cost per Camp Man Day Pumping Operations Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter Power Cost for Operation and Normal Maintenance of Site Pumps Total Estimated Pumping is 42 cubic Meters per Minute - Assume High volume, low head pumps at total of 500 Horsepower Maintenance/Replacement Reserve for Pumps is included below Maintenance/Replacement Reserve for Emergency Generators is Included Below Conduct Site Operations - Annual Expense During Closure Labor (Two Crews of Two persons - 2 Weeks On and Two Off - Paid 10 Hours/Day Site Supervisor (Mechanic) Operator	2,450 MH 2,450 MH		1.00	2,450 \$58.00		\$142,100		\$147,000 \$142,100	10 10	\$14,700 \$14,210	\$161,700 \$156,310
S S S	Camp Maintenance is Included with the Cost per Camp Man Day Pumping Operations Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter Power Cost for Operation and Normal Maintenance of Site Pumps Total Estimated Pumping is 42 cubic Meters per Minute - Assume High volume, low head pumps at total of 500 Horsepower Maintenance/Replacement Reserve for Pumps is included below Maintenance/Replacement Reserve for Emergency Generators is Included Below Conduct Site Operations - Annual Expense During Closure Labor (Two Crews of Two persons - 2 Weeks On and Two Off - Paid 10 Hours/Day Site Supervisor (Mechanic) Operator Provide Callout Crew from Timmins/Sudbury - 8 Days per Month (winter) +4 days per Month +\$200 per Day for Truck/Tools	2,450 MH 2,450 MH 64 Days	\$200.00		2,450 \$58.00			\$12,800	\$147,000 \$142,100 \$124,416	10 10 15	\$14,700 \$14,210 \$18,662	\$161,700 \$156,310 \$143,078
S S	Camp Maintenance is Included with the Cost per Camp Man Day Pumping Operations Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter Power Cost for Operation and Normal Maintenance of Site Pumps Total Estimated Pumping is 42 cubic Meters per Minute - Assume High volume, low head pumps at total of 500 Horsepower Maintenance/Replacement Reserve for Pumps is included below Maintenance/Replacement Reserve for Emergency Generators is Included Below Conduct Site Operations - Annual Expense During Closure Labor (Two Crews of Two persons - 2 Weeks On and Two Off - Paid 10 Hours/Day Site Supervisor (Mechanic) Operator Provide Callout Crew from Timmins/Sudbury - 8 Days per Month (winter) +4 days per Month +\$200 per Day for Truck/Tools Provide for Equipment Use at 25% of labor	2,450 MH 2,450 MH 64 Days 25 %	\$200.00 \$2,891.00	1.00	2,450 \$58.00		\$142,100	\$12,800 \$72,275	\$147,000 \$142,100	10 10 15 15	\$14,700 \$14,210 \$18,662 \$10,841	\$161,700 \$156,310 \$143,078 \$83,116
S S S S S S	Camp Maintenance is Included with the Cost per Camp Man Day Pumping Operations Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter Power Cost for Operation and Normal Maintenance of Site Pumps Total Estimated Pumping is 42 cubic Meters per Minute - Assume High volume, low head pumps at total of 500 Horsepower Maintenance/Replacement Reserve for Pumps is included below Maintenance/Replacement Reserve for Emergency Generators is Included Below Conduct Site Operations - Annual Expense During Closure Labor (Two Crews of Two persons - 2 Weeks On and Two Off - Paid 10 Hours/Day Site Supervisor (Mechanic) Operator Provide Callout Crew from Timmins/Sudbury - 8 Days per Month (winter) +4 days per Month +\$200 per Day for Truck/Tools	2,450 MH 2,450 MH 64 Days	\$200.00	1.00	2,450 \$58.00		\$142,100	\$12,800	\$147,000 \$142,100 \$124,416 \$72,275	10 10 15	\$14,700 \$14,210 \$18,662	\$161,700 \$156,310 \$143,078
S S S S S S	Camp Maintenance is Included with the Cost per Camp Man Day Pumping Operations Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter Power Cost for Operation and Normal Maintenance of Site Pumps Total Estimated Pumping is 42 cubic Meters per Minute - Assume High volume, low head pumps at total of 500 Horsepower Maintenance/Replacement Reserve for Pumps is included below Maintenance/Replacement Reserve for Emergency Generators is Included Below Conduct Site Operations - Annual Expense During Closure Labor (Two Crews of Two persons - 2 Weeks On and Two Off - Paid 10 Hours/Day Site Supervisor (Mechanic) Operator Provide Callout Crew from Timmins/Sudbury - 8 Days per Month (winter) +4 days per Month +\$200 per Day for Truck/Tools Provide Two Pickup Trucks for Onsite Use (\$15 per hour at 6 Hours Use Each)	2,450 MH 2,450 MH 64 Days 25 % 2,940 hours	\$200.00 \$2,891.00 \$15.00	1.00	2,450 \$58.00		\$142,100	\$12,800 \$72,275 \$44,100	\$147,000 \$142,100 \$124,416 \$72,275 \$44,100	10 10 15 15 15	\$14,700 \$14,210 \$18,662 \$10,841 \$6,615	\$161,700 \$156,310 \$143,078 \$83,116 \$50,715
S S S S S S	Camp Maintenance is Included with the Cost per Camp Man Day Pumping Operations Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter Power Cost for Operation and Normal Maintenance of Site Pumps Total Estimated Pumping is 42 cubic Meters per Minute - Assume High volume, low head pumps at total of 500 Horsepower Maintenance/Replacement Reserve for Pumps is included below Maintenance/Replacement Reserve for Emergency Generators is Included Below Conduct Site Operations - Annual Expense During Closure Labor (Two Crews of Two persons - 2 Weeks On and Two Off - Paid 10 Hours/Day Site Supervisor (Mechanic) Operator Provide Callout Crew from Timmins/Sudbury - 8 Days per Month (winter) +4 days per Month +\$200 per Day for Truck/Tools Provide for Equipment Use at 25% of labor Provide Two Pickup Trucks for Onsite Use (\$15 per hour at 6 Hours Use Each) Provision for Consumables and Materials (At 10% of Labor/Equipment)	2,450 MH 2,450 MH 64 Days 25 % 2,940 hours	\$200.00 \$2,891.00 \$15.00	1.00	2,450 \$58.00		\$142,100	\$12,800 \$72,275 \$44,100	\$147,000 \$142,100 \$124,416 \$72,275 \$44,100	10 10 15 15 15	\$14,700 \$14,210 \$18,662 \$10,841 \$6,615	\$161,700 \$156,310 \$143,078 \$83,116 \$50,715
S S S S S S	Camp Maintenance is Included with the Cost per Camp Man Day Pumping Operations Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter Power Cost for Operation and Normal Maintenance of Site Pumps Total Estimated Pumping is 42 cubic Meters per Minute - Assume High volume, low head pumps at total of 500 Horsepower Maintenance/Replacement Reserve for Pumps is included below Maintenance/Replacement Reserve for Emergency Generators is Included Below Conduct Site Operations - Annual Expense During Closure Labor (Two Crews of Two persons - 2 Weeks On and Two Off - Paid 10 Hours/Day Site Supervisor (Mechanic) Operator Provide Callout Crew from Timmins/Sudbury - 8 Days per Month (winter) +4 days per Month +\$200 per Day for Truck/Tools Provide for Equipment Use at 25% of labor Provide Two Pickup Trucks for Onsite Use (\$15 per hour at 6 Hours Use Each) Provide Two Pickup Trucks for Onsite Use (\$15 per hour at 6 Hours Use Each) Provide Two Pickup Trucks for Onsite Use (\$15 per hour at 6 Hours Use Each) Provide Two Pickup Trucks and Materials (At 10% of Labor/Equipment) Conduct Required Monitoring and Reporting - Annual Expense Years 20 and 21 Water Quality (Surface water and Groundwater) Labor and Equipment for Sampling (2 Persons, 4 Days per Event, Camp Accommodations, Vehicle and Tools at \$200 per day)	2,450 MH 2,450 MH 64 Days 25 % 2,940 hours	\$200.00 \$2,891.00 \$15.00	1.00	2,450 \$58.00		\$142,100	\$12,800 \$72,275 \$44,100 \$52,989 \$12,800	\$147,000 \$142,100 \$124,416 \$72,275 \$44,100	10 10 15 15 15	\$14,700 \$14,210 \$18,662 \$10,841 \$6,615 \$7,948 \$6,099	\$161,700 \$156,310 \$143,078 \$83,116 \$50,715 \$60,937 \$67,091
S S S S S S S	Camp Maintenance is Included with the Cost per Camp Man Day Pumping Operations Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter Power Cost for Operation and Normal Maintenance of Site Pumps Total Estimated Pumping is 42 cubic Meters per Minute - Assume High volume, low head pumps at total of 500 Horsepower Maintenance/Replacement Reserve for Pumps is included below Maintenance/Replacement Reserve for Emergency Generators is Included Below Conduct Site Operations - Annual Expense During Closure Labor (Two Crews of Two persons - 2 Weeks On and Two Off - Paid 10 Hours/Day Site Supervisor (Mechanic) Operator Provide Callout Crew from Timmins/Sudbury - 8 Days per Month (winter) +4 days per Month +\$200 per Day for Truck/Tools Provide for Equipment Use at 25% of labor Provide Two Pickup Trucks for Onsite Use (\$15 per hour at 6 Hours Use Each) Provision for Consumables and Materials (At 10% of Labor/Equipment) Conduct Required Monitoring and Reporting - Annual Expense Years 20 and 21 Water Quality (Surface water and Groundwater)	2,450 MH 2,450 MH 64 Days 25 % 2,940 hours 10 %	\$200.00 \$2,891.00 \$15.00 \$5,298.91	1.00 16.00	2,450 \$58.00 1,024 \$109.00 384 \$125.50		\$142,100 \$111,616	\$12,800 \$72,275 \$44,100 \$52,989	\$147,000 \$142,100 \$124,416 \$72,275 \$44,100 \$52,989	10 10 15 15 15 15 15	\$14,700 \$14,210 \$18,662 \$10,841 \$6,615 \$7,948	\$161,700 \$156,310 \$143,078 \$83,116 \$50,715 \$60,937

EM,S ITEM AND DESCRIPTION	QUANTITY	UNIT	UNIT	DI	IRECT/SC M	ſH	Progressive	LABOR	SUB-CONT.	TOTAL	Contingency Ev	valuation	TOTAL
CCode			COST	UNIT	TOTAL	\$/MH	Rehabilitation				%	Dollars	Including Continge
S Aquatic Effects Monitoring											 		
S Labor and Equipment for Sampling	2	events	\$1,600.00	96.00	192	\$125.50		\$24,096	\$3,200	\$27,296	10	\$2,730	\$30,026
S Laboratory Analysis	40	samples	\$300.00	I					\$12,000	\$12,000	10	\$1,200	\$13,200
S Reporting	2	ea	\$348.00	48.00	96	\$145.00		\$13,920	\$696	\$14,616	10	\$1,462	\$16,078
S Hydrology Monitoring				I							I		
S Site Visit and Observations	3	ea	\$1,200.00	24.00	72	\$145.00		\$10,440	\$3,600	\$14,040	10	\$1,404	\$15,444
S Reporting	3	ea	\$174.00	24.00	72	\$145.00		\$10,440	\$522	\$10,962	10	\$1,096	\$12,058
S Geotechnical Monitoring and Dam Safety Inspection			*1 2 00 00			** **		** *	** (00)			* 2.120	<u> </u>
S Site Visit and Observations	2	trips	\$1,200.00	72.00	144	\$200.00		\$28,800	\$2,400	\$31,200	10	\$3,120	\$34,320
S Reporting	2	ea	\$320.00	32.00	64	\$200.00		\$12,800	\$640	\$13,440	10	\$1,344	\$14,784
S Meteorological Station		<u> </u>	¢ 400.00	24.00	40	¢125.50		¢(0 2 4	¢000	¢(0 0 4	10	¢(0 2	\$7.50 <i>(</i>
S Station Inspection	2	trips	\$400.00	24.00	48	\$125.50		\$6,024	\$800	\$6,824	10	\$682 \$487	\$7,506 \$5,359
S Reporting	2	ea	\$116.00	16.00	32	\$145.00		\$4,640	\$232	\$4,872	10	\$487	\$3,339
S Describe Home Office Management and Constitution & OMP M	12	%	\$9,728.18						¢11(729	¢116 729	10	\$11,674	¢100.410
S Provide Home Office Management and Coordination of OM&M	12	%	\$9,728.18	I					\$116,738	\$116,738	10	\$11,674	\$128,412
Total for Site OM&M During Closure (2 Years)								\$583,268	\$506,288	\$1,089,556	12.69%	\$138,225	\$1,227,781
9400 Phase I - During Pit Filling (25-Years)				 							┢─────┼		
Pumping Operations	<u> </u>			J							↓		
Operate and Maintain Pumps for 8 months per Year Plus 25% Use in Winter				 							(
S Power Cost for Operation and Normal Maintenance of Site Pumps (Year1 of Pit Filling)	1,944,000	Kwh	\$0.08	I					\$145,800	\$145,800	20	\$29,160	\$174,960
Total Estimated Pumping is 42 cubic Meters per Minute - Assume High Volume, Low Head Pumps at Total of 500 Horsepower				 							I		
It is Anticipated that Pumping will be Reduced as Monitoring Shows the Pond Can be Closed Reduce Pumping each 5 Years				 							I		
S Maintenance/Replacement Reserve for Pumps is included below				I							i		
S Maintenance/Replacement Reserve for Emergency Generators is Included Below				 							I		
Care and Maintenance Staff (Reduce Costs as Pumping Reduces and Ponds are closed)				 							I		
Field Staff of 2 Persons Living in Timmins or Sudbury (Work 10 hours Including Travel to Site)	2 000			1.00	2 000	\$50.00		¢165.000		¢1(5,000	l	#24 7 00	¢100.000
Two Persons 4 Days per Week, Rotate Days, Each Person Works approximately 1400 hours During 8 Months	2,800	MH		1.00	2,800	\$59.00		\$165,200		\$165,200	15	\$24,780	\$189,980
Two Persons 2 Days per week, Rotate Days, Each Person Crew Works approximately 340 hours During 4 Months	680	MH		1.00	680	\$59.00		\$40,120	** ***	\$40,120	15	\$6,018	\$46,138
S Provide Callout Crew from Timmins/Sudbury - 8 Days per Month (Winter) +2 days per Month (Summer)	48	days	\$200.00	16.00	768	\$109.00		\$83,712	\$9,600	\$93,312	15	\$13,997	\$107,309
+\$200 per Day for Truck/Tools				 							I		
S Provide for Equipment Use at 20% of labor	20	%	\$2,053.20	I					\$41,064	\$41,064	15	\$6,160	\$47,224
S Provide Maintenance Truck for Travel and Onsite Use (\$20 per hour at 10 Hours Use Each Day)	174	Days	\$200.00						\$34,800	\$34,800	15	\$5,220	\$40,020
S Provide for Survey Crew (Twice each year for 2 Days each Trip)	40	MH	** • • • • • •	1.00	40	\$210.00		\$8,400	A 10 055	\$8,400	15	\$1,260	\$9,660
S Provision for Consumables and Materials (At 20% of Labor/Equipment)	20	%	\$2,463.84	I					\$49,277	\$49,277	15	\$7,392	\$56,668
Conduct Required Monitoring and Reporting - Annual Expense Years 22 through 36				I							I		
Water Quality (Surface water and Groundwater)			¢2 (00 00	06.00	102	¢125.50		\$24.000	¢5 200	#20.20 <i>(</i>	10	¢2.020	\$22.22 <i>(</i>
S Labor and Equipment for Sampling (2 Persons, 4 Days per Event, 3 nights at \$300 per person, vehicle/tools \$200 day)	2	events	\$2,600.00	96.00	192	\$125.50		\$24,096	\$5,200 \$12,000	\$29,296 \$12,000	10	\$2,930 \$1,200	\$32,226
S Laboratory Analysis 40 Samples Surface Water and 40 Ground Water	80	Samples	\$150.00	40.00	80	¢145.00		\$11,600	\$12,000		10	\$1,200	\$13,200 \$12,951
S Reporting S Aquatic Effects Monitoring	2	ea	\$87.00	40.00	80	\$145.00		\$11,000	\$1/4	\$11,774	10	\$1,177	\$12,951
S Labor and Equipment for Sampling	2	arranta	\$2,600.00	96.00	192	\$125.50		\$24,096	\$5,200	\$29,296	10	\$2,930	\$32,226
S Labor and Equipment for Sampling S Laboratory Analysis	40	events samples	\$2,800.00	96.00	192	\$125.50		\$24,090	\$12,000	\$12,000	10	\$2,930	\$32,220
S Reporting	40	ea	\$348.00	48.00	96	\$145.00		\$13,920	\$12,000	\$12,000	10	\$1,200	\$15,200
S Hydrology Monitoring	<u></u>	ca	\$ 5 +0.00	+0.00	90	\$1 4 3.00		φ1 <i>3</i> ,920	\$090	\$14,010	10	φ1 , 1 02	\$10,078
S Site Visit and Observations	2	ea	\$800.00	24.00	48	\$145.00		\$6,960	\$1,600	\$8,560	10	\$856	\$9,416
S Reporting	2	ea	\$174.00	24.00	48	\$145.00		\$6,960	\$348	\$7,308	10	\$731	\$8,039
S Geotechnical Monitoring and Dam Safety Inspection			φ1/ 1 .00	27.00	01	ψ175.00		<i>40,700</i>	φστο	φ1,500	10	φ/31	\$0,039
S Site Visit and Observations	1	trips	\$1,800.00	72.00	72	\$200.00		\$14,400	\$1,800	\$16,200	10	\$1,620	\$17,820
S Reporting	1	ea	\$160.00	32.00	32	\$200.00		\$6,400	\$160	\$6,560	10	\$656	\$7,216
S Meteorological Station				52.00		÷200.00		\$0,.00	\$100			4020	\$,,210
S Station Inspection	2	trips	\$200.00	24.00	48	\$125.50		\$6,024	\$400	\$6,424	10	\$642	\$7,066
S Reporting	2	ea	\$174.00	24.00	48	\$145.00	t t	\$6,960	\$348	\$7,308	10	\$731	\$8,039
S Provide Home Office Management and Coordination of OM&M	10	%	\$7,393.15						\$73,931	\$73,931	10	\$7,393	\$81,325
Total for Site OM&M During Pit Filling (25-Years)								\$418,848	\$394,398	\$813,246	14.45%	\$117,513	\$930,760
											I		
9500 Phase II - Long Term Post Closure	L]			·							L		

EM,S	ITEM AND DESCRIPTION	QUANTITY	UNIT	UNIT	DIF	ECT/SC M	IH	Progressive	LABOR	SUB-CONT.	TOTAL	Contingency	Evaluation	TOTAL
CCode		1		COST	UNIT	TOTAL	\$/MH	Rehabilitation				%	Dollars	Including Continge
	Pumping Operations (Completed)	i i												
	Care and Maintenance Staff (No Permanent Staff)	1												
S	Provide Callout Crew from Timmins/Sudbury - 18 days per Year for Site Inspection+\$200 per Day for Truck/Tools	18	days	\$300.00	12.00	216	\$125.50		\$27,108	\$5,400	\$32,508	20	\$6,502	\$39,010
S	Provide an Allowance to Repair Road/Drainage Facilities Damage Once every 10 years (Men/Equipment/Materials at \$200,000)	10	%	\$200,000.00						\$20,000	\$20,000	20	\$4,000	\$24,000
	Conduct Required Monitoring and Reporting - Annual Expense Years 37 through 51	Í.												
	Water Quality (Surface water and Groundwater)	Í.												
S	Labor and Equipment for Sampling (2 Persons, 4 Days per Event, 3 nights at \$300 per person)	1	event	\$2,600.00	96.00	96	\$125.50		\$12,048	\$2,600	\$14,648	15	\$2,197	\$16,845
S	Laboratory Analysis 10 Samples Surface Water and 20 Ground Water	30	Samples	\$150.00						\$4,500	\$4,500	15	\$675	\$5,175
S	Reporting	2	ea	\$87.00	40.00	80	\$145.00		\$11,600	\$174	\$11,774	15	\$1,766	\$13,540
S	Aquatic Effects Monitoring	1												
S	Labor and Equipment for Sampling	1	event	\$2,600.00	96.00	96	\$125.50		\$12,048	\$2,600	\$14,648	15	\$2,197	\$16,845
S	Laboratory Analysis	20	samples	\$300.00						\$6,000	\$6,000	15	\$900	\$6,900
S	Reporting	1	ea	\$174.00	48.00	48	\$145.00		\$6,960	\$174	\$7,134	15	\$1,070	\$8,204
S	Hydrology Monitoring	Í.												
S	Site Visit and Observations	1	ea	\$1,000.00	24.00	24	\$145.00		\$3,480	\$1,000	\$4,480	15	\$672	\$5,152
S	Reporting	1	ea	\$87.00	24.00	24	\$145.00		\$3,480	\$87	\$3,567	15	\$535	\$4,102
S	Geotechnical Monitoring and Dam Safety Inspection	1												
S	Site Visit and Observations	1	trip	\$1,000.00	24.00	24	\$200.00		\$4,800	\$1,000	\$5,800	15	\$870	\$6,670
S	Reporting	1	ea	\$160.00	32.00	32	\$200.00		\$6,400	\$160	\$6,560	15	\$984	\$7,544
S	Meteorological Station (Removed)	1												
S	Station Inspection	2	trip	\$400.00	24.00	48	\$125.50		\$6,024	\$800	\$6,824	10	\$682	\$7,506
S	Reporting	2	ea	\$174.00	24.00	48	\$145.00		\$6,960	\$348	\$7,308	10	\$731	\$8,039
		10		¢1.457.51						¢14.555	¢14		¢1 / = 0	¢1 (000
S	Provide Home Office Management and Coordination of OM&M	10	%	\$1,457.51						\$14,575	\$14,575	10	\$1,458	\$16,033
	Total for Site OM&M for Long Term Post Closure								\$100,908	\$59,418	\$160,326	15.74%	25,239	\$185,565



			L	ong Teri	n Care	and Mai	intenanc	e (Indef	inite Ti	me Peri	od)			
2066 1 48	2067 2 49	2068 3 50	2069 4 51	2070 5 52	2071 6 53	2072 7 54	2073 8 55	2074 9 56	2075 10	2076 11	2077 12	2078 13 60	2079 14 61	2080 15 62
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62

Mine Construction Mine Closure Mine Closure 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 1 2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 1 2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 1 2 2 2 2 3 14 5 6 7 8 9 10 11 12 13 14 15 16 17 1 2 2 2 2 3 5 6 7 8 9 10 11 12 13 14 <td< th=""><th>2041 2042 2043 2044 2045 2046 2047 2048 204 1 2 3 4 5 6 7 8 9 23 24 25 26 27 28 29 30 31</th><th>Post-Closure Phase I - Pit Filling 0 2050 2051 2052 2053 2054 2055 2056 2057 2058 10 11 12 13 14 15 16 17 18 32 33 34 35 36 37 38 39 40</th><th>2059 2060 2061 2062 2063 2064 2065 2066 20 19 20 21 22 23 24 25 1 41 42 43 44 45 46 47 48</th><th>Long Term Care and Maintenance (Indefinite Time Period) 067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2 3 4 5 6 7 8 9 10 11 12 13 14 15 49 50 51 52 53 54 55 56 57 58 59 60 61 62</th></td<>	2041 2042 2043 2044 2045 2046 2047 2048 204 1 2 3 4 5 6 7 8 9 23 24 25 26 27 28 29 30 31	Post-Closure Phase I - Pit Filling 0 2050 2051 2052 2053 2054 2055 2056 2057 2058 10 11 12 13 14 15 16 17 18 32 33 34 35 36 37 38 39 40	2059 2060 2061 2062 2063 2064 2065 2066 20 19 20 21 22 23 24 25 1 41 42 43 44 45 46 47 48	Long Term Care and Maintenance (Indefinite Time Period) 067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2 3 4 5 6 7 8 9 10 11 12 13 14 15 49 50 51 52 53 54 55 56 57 58 59 60 61 62
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