## SUMMARY OF COSTS

	COMPONENT			WATER
CAPITAL COSTS	NAME	COST	LAND LIABILITY	LIABILITY
OPEN PIT	Portage	\$75,240	\$37,620	\$37,620
	Goose	\$73,080	\$36,540	\$36,540
	Vault	\$1,080	\$540	\$540
	Phaser	\$1,080	\$540	\$540
UNDERGROUND MINE		\$0	\$0	\$0
TAILINGS FACILITY		\$32,121,068	\$16,060,534	\$16,060,534
ROCK PILE	Portage	\$2,707,534	\$1,353,767	\$1,353,767
	Vault	\$30,000	\$15,000	\$15,000
BUILDINGS AND EQUIPMENT	Meadowbank	\$8,121,236	\$4,060,618	\$4,060,618
	Baker Lake	\$1,685,266	\$842,633	\$842,633
	AWAR	\$749,930	\$374,965	\$374,965
CHEMICALS AND CONTAMINATED SOIL MANAGEMENT		\$1,316,981	\$658,491	\$658,491
SURFACE AND GROUNDWATER MANAGEMENT		\$25,409,069	\$12,704,535	\$12,704,535
INTERIM CARE AND MAINTENANCE		\$847,800	\$423,900	\$423,900
	SUBTOTAL: Capital Costs	\$73,139,364	\$36,569,682	\$36,569,682
	PERCENT OF SUBTOTAL		50%	50%

INDIRECT COSTS	COST	LAND LIABILITY	WATER LIABILITY
MOBILIZATION/DEMOBILIZATION	\$5,589,160	\$2,794,580	\$2,794,580
POST-CLOSURE MONITORING AND MAINTENANCE	\$4,133,524	\$2,066,762	\$2,066,762
ENGINEERING 5%	\$3,656,968	\$1,828,484	\$1,828,484
PROJECT MANAGEMENT 5%	\$3,656,968	\$1,828,484	\$1,828,484
HEALTH AND SAFETY PLANS/MONITORING, QA/QC & ENGAGEMENT			
COSTS 2%	\$1,462,787	\$731,394	\$731,394
BONDING/INSURANCE 1%	\$731,394	\$365,697	\$365,697
CONTINGENCY 15%	\$10,970,905	\$5,485,452	\$5,485,452
MARKET PRICE FACTOR ADJUSTMENT 0%	\$0	\$0	\$0
SUBTOTAL: Indirect Costs	\$30,201,706	\$15,100,853	\$15,100,853
TOTAL COSTS	\$103,341,070	\$51,670,535	\$51,670,535

Open Pit Name: ge		Cost	Pit #		/ <sub>0</sub>		Water
ACTIVITY/MATERIAL Notes	Units C		Unit Cost		and Land Cost		Cost
CONTROL ACCESS							
ence	m	#N/A	\$0.00	\$0		\$0	
Signs	each	#N/A	\$0.00	\$0		\$0	
Berm at crest and rock barricad		1350 DRH	\$2.40	\$3,240	50%	\$1,620	\$1,6
Block roads Other	m3	#N/A	\$0.00	\$0		\$0	
STABILITY STUDY		#IN/A	\$0.00	\$0		\$0	
Conduct stability and setback st	allow	#N/A	\$0.00	\$0		\$0	
STABILIZE SLOPES	anow	#14/F3	ψ0.00	ΨΟ		Ψ.	
Off-load crest, soil A	m3	#N/A	\$0.00	\$0		\$0	
Off-load crest, soil B	m3	#N/A	\$0.00	\$0		\$0	
Doze/trim overburden at crest	m3	#N/A	\$0.00	\$0		\$0	
Orill & blast pit crest	m3	#N/A	\$0.00	\$0		\$0	
Buttress slope	m3	#N/A	\$0.00	\$0		\$0	
Regrade NPAG Stockpiles	m3	30000 DRH		\$72,000	50%	\$36,000	
Other		#N/A	\$0.00	\$0		\$0	
COVER/CONTOUR SLOPES						•	
Place fill, soil A	m3	#N/A	\$0.00	\$0		\$0	
Place fill, soil B	m3 m3	#N/A #N/A	\$0.00	\$0 \$0		\$0 \$0	
Rip rap √egetate slopes	m3 ha	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0	
/egetate pit floor	ha	#N/A	\$0.00	\$0 \$0		\$0	
Other	IIa	#N/A	\$0.00	\$0		\$0	
CONSTRUCT DIVERSION DIT	CHES	#14/73	ψ0.00	ΨΟ		40	
Excavate ditches -soil	m3	#N/A	\$0.00	\$0		\$0	
Excavate ditches -rock	m3	#N/A	\$0.00	\$0		\$0	
				\$0		\$0	
Rip rap in channel base	m3	#N/A	\$0.00	\$0		\$0	
Excavate channel	m3	#N/A	\$0.00	\$0		\$0	
Concrete	m3	#N/A	\$0.00	\$0		\$0	
Rip rap	m3	#N/A	\$0.00	\$0		\$0	
Other		#N/A	\$0.00	\$0		\$0	
RECLAIM QUARRIES							
Contour slopes	m3	#N/A	\$0.00	\$0		\$0	
Place overburden	m3	#N/A	\$0.00	\$0		\$0	
Vegetate	m3	#N/A	\$0.00	\$0		\$0	
FLOOD PIT-Capital							
Remove stationary equipment (		#N/A	\$0.00	\$0		\$0	
Remove dewatering pipeline	m	#N/A	\$0.00	\$0		\$0	
Remove power lines	each	#N/A	\$0.00	\$0		\$0 \$0	
Construct diversion ditches	m3	#N/A	\$0.00	\$0			
-Ditch, mat'l A	m3	#N/A	\$0.00	\$0		\$0	
-Ditch, mat'l B	m3	#N/A	\$0.00	\$0		\$0	
Construct embankment/dam	m3	#N/A	\$0.00	\$0		\$0	
Supply/install pump station	each	#N/A	\$0.00	\$0		\$0	
Supply/install piping system	m	#N/A	\$0.00	\$0 \$0		\$0 \$0	
Remove pump post-closure Remove pipeline post-closure	each m	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0	
FLOOD PIT-Annual Cost	m	#IN/A	\$0.00	\$0		\$0	
Operate pumps (power)	m3	#N/A	\$0.00	\$0		\$0	
Maintain pump/pipeline	allow	#N/A	\$0.00	\$0 \$0		\$0	
abour: fuel management, com.		#N/A	\$0.00	\$0		\$0	
	tonne	#N/A	\$0.00	\$0		\$0	
Chemicals, purchase and shipp		#N/A	\$0.00	\$0		\$0	
Passive/biological additives	\$/ha	#N/A	\$0.00	\$0		\$0	
Passive additives purchase and		#N/A	\$0.00	\$0		\$0	
Other		#N/A	\$0.00	\$0		\$0	
	_	-	Annual pumping costs	\$0	·		
Number of years of pump flood	years						
			Total pumping costs	\$0		\$0	
			Total	\$75,240		\$37,620	\$37,6

Open Pit Name:	Go	oose			Pit # 2				
ACTIVITY/MATERIAL	Notes	Units	Quantity	Cost Code	Unit Cost	Cost	% Land		Water Cost
CONTROL ACCESS									
Fence		m		#N/A	\$0.00	\$0		\$0	\$0
Signs		each		#N/A	\$0.00	\$0		\$0	\$0
Berm at crest and Rock barricade at ramp		m3	450	DRH	\$2.40	\$1,080	50%	\$540	\$540
Block roads		m3			*	*.,		****	
Other				#N/A	\$0.00	\$0		\$0	\$0
STABILITY STUDY				,,,,,,	ψ0.00	Ų.		Ų.	
Conduct stability and setback study		allow		#N/A	\$0.00	\$0		\$0	\$0
STABILIZE SLOPES		allow		#14//-X	ψ0.00	ΨΟ		ΨΟ	Ψ
Off-load crest, soil A		m3		#N/A	\$0.00	\$0		\$0	\$0
Off-load crest, soil A		m3		#N/A	\$0.00	\$0		\$0	\$0
Doze/trim overburden at crest		m3		#N/A	\$0.00	\$0		\$0	\$0
Doze/tillin overburden at crest Drill & blast pit crest		m3		#N/A	\$0.00	\$0 \$0		\$0 \$0	\$0
				#N/A #N/A					
Buttress slope		m3	00000		\$0.00	\$0	500/		\$0
Regrade NPAG Stockpiles		m3	30000		\$2.40	\$72,000	50%		\$36,000
				#N/A	\$0.00	\$0		\$0	\$0
				#N/A	\$0.00	\$0		¢n.	\$0
				#N/A	\$0.00	\$0			\$0
				#N/A	\$0.00	\$0 \$0			\$0
								50% \$36,000 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	
				#N/A	\$0.00	\$0			\$0
				#N/A	\$0.00	\$0			\$0
				#N/A	\$0.00	\$0		\$0	\$0
				451/6	<b>60.00</b>	60		60	60
				#N/A	\$0.00	\$0			\$0
				#N/A	\$0.00	\$0			\$0
				#N/A	\$0.00	\$0		\$0	\$0
				#N/A	\$0.00	\$0		\$0	\$0
				#N/A	\$0.00	\$0			\$0
				#N/A	\$0.00	\$0			\$0
				#N/A	\$0.00	\$0			\$0
				#N/A	\$0.00	\$0			\$0
				#N/A #N/A	\$0.00 \$0.00	\$0 \$0			\$0 \$0
				#IN/A	\$0.00	20		<b>\$</b> 0	φU
Remove stationary equipment (sump pumps	;)	each		#N/A	\$0.00	\$0		\$0	\$0
Remove dewatering pipeline		m		#N/A	\$0.00	\$0		\$0	\$0
Remove power lines		each		#N/A	\$0.00	\$0			\$0
Construct diversion ditches		m3		#N/A	\$0.00	\$0		\$0	\$0
-Ditch, mat'l A		m3		#N/A	\$0.00	\$0		\$0	\$0
-Ditch, mat'l B		m3		#N/A	\$0.00	\$0		\$0	\$0
Construct embankment/dam		m3		#N/A	\$0.00	\$0		\$0	\$0
Supply/install pump station		each		#N/A	\$0.00	\$0		\$0	\$0
Supply/install piping system		m		#N/A	\$0.00	\$0		\$0	\$0
Remove pump post-closure		each		#N/A	\$0.00	\$0		\$0	\$0
Remove pipeline post-closure		m		#N/A	\$0.00	\$0		\$0	\$0
FLOOD PIT-Annual Cost									
Operate pumps (power)		m3		#N/A	\$0.00	\$0		\$0	\$0
Maintain pump/pipeline		allow		#N/A	\$0.00	\$0		\$0	\$0
Labour: fuel management, commissioning/d	ecom	\$/h		#N/A	\$0.00	\$0		\$0	\$0
Chemical addition, kg/m3 of water		tonne		#N/A	\$0.00	\$0		\$0	\$0
Chemicals, purchase and shipping		tonne		#N/A	\$0.00	\$0		\$0	\$0
Passive/biological additives		\$/ha		#N/A	\$0.00	\$0		\$0	\$0
Passive additives purchase and shipping		tonne		#N/A	\$0.00	\$0		\$0	\$0
Other		1010		#N/A	\$0.00	\$0		\$0	\$0
			Anı	nual pumpi		\$0			
Number of years of pump flooding		years							
			T	otal pumpi		\$0		\$0	\$0
					Total	\$73,080		\$36,540	\$36.540

Open Pit Name:	Vault		Cost	Pit # 3 Unit		%	Land	Water
ACTIVITY/MATERIAL N	lotes Units	Quantity	Code	Cost	Cost	Land	Cost	Cost
CONTROL ACCESS		quantity						
Fence	m		#N/A	\$0.00	\$0		\$0	\$0
Signs	each		#N/A	\$0.00	\$0		\$0	\$0
Berm at crest and Rock barricade at ramp	m3	450 I		\$2.40	\$1,080	50%	\$540	\$540
Block roads	m3							
Other			#N/A	\$0.00	\$0		\$0	\$0
STABILITY STUDY								
Conduct stability and setback study	allow		#N/A	\$0.00	\$0		\$0	\$0
STABILIZE SLOPES								
Off-load crest, soil A	m3		#N/A	\$0.00	\$0		\$0	\$0
Off-load crest, soil B	m3		#N/A	\$0.00	\$0		\$0	\$0
Doze/trim overburden at crest	m3		#N/A	\$0.00	\$0		\$0	\$0
Drill & blast pit crest	m3		#N/A	\$0.00	\$0		\$0	\$0
Buttress slope	m3		#N/A	\$0.00	\$0		\$0	\$0
	m3		#N/A	\$0.00	\$0		\$0	\$0
Other			#N/A	\$0.00	\$0		\$0	\$0
COVER/CONTOUR SLOPES								
Place fill, soil A	m3		#N/A	\$0.00	\$0		\$0	\$0
Place fill, soil B	m3		#N/A	\$0.00	\$0		\$0	\$0
Rip rap	m3		#N/A	\$0.00	\$0		\$0	\$0
Vegetate slopes	ha		#N/A	\$0.00	\$0		\$0	\$0
Vegetate pit floor	ha		#N/A	\$0.00	\$0		\$0	\$0
Other			#N/A	\$0.00	\$0		\$0	\$0
CONSTRUCT DIVERSION DITCHES								
Excavate ditches -soil	m3		#N/A	\$0.00	\$0		\$0	\$0
Excavate ditches -rock	m3		#N/A	\$0.00	\$0		\$0	\$0
								, .
Rip rap in channel base	m3		#N/A	\$0.00	\$0		\$0	\$0
CONSTRUCT SPILLWAY	_		//8.1/8	00.00				
Excavate channel	m3		#N/A	\$0.00	\$0		\$0	\$0
Concrete	m3		#N/A	\$0.00	\$0		\$0	\$0
Rip rap	m3		#N/A	\$0.00	\$0 \$0		\$0 \$0	\$0 \$0
Other			#N/A	\$0.00	\$0		\$0	\$0
RECLAIM QUARRIES	0		441/4	60.00	eo.		¢0	r.c
Contour slopes	m3		#N/A	\$0.00	\$0		\$0 \$0	\$0 \$0
Place overburden Vegetate	m3 m3		#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0	\$0
	ma		#IN/A	\$0.00	\$0		20	ЭC
FLOOD PIT-Capital			441/4	60.00	\$0		\$0	\$0
Remove stationary equipment (sump pumps)	each		#N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0	\$0
Remove dewatering pipeline	m		#N/A					
Remove power lines	each		#N/A	\$0.00	\$0		\$0	\$0
Construct diversion ditches	m3		#N/A	\$0.00	\$0		\$0	\$0
-Ditch, mat'l A	m3		#N/A	\$0.00	\$0		\$0	\$0
-Ditch, mat'l B	m3		#N/A	\$0.00	\$0		\$0	\$0
Construct embankment/dam	m3		#N/A	\$0.00	\$0		\$0	\$0
Supply/install pump station	each		#N/A	\$0.00	\$0		\$0	\$0
Supply/install piping system	m		#N/A	\$0.00	\$0		\$0	\$0
Remove pump post-closure	each		#N/A	\$0.00	\$0		\$0	\$0
Remove pipeline post-closure	m		#N/A	\$0.00	\$0		\$0	\$0
FLOOD PIT-Annual Cost								
Operate pumps (power)	m3		#N/A	\$0.00	\$0		\$0	\$0
Maintain pump/pipeline	allow		#N/A	\$0.00	\$0		\$0	\$0
Labour: fuel management, commissioning/deco	om \$/h		#N/A	\$0.00	\$0		\$0	\$0
Chemical addition, kg/m3 of water	tonne		#N/A	\$0.00	\$0		\$0	\$0
Chemicals, purchase and shipping	tonne		#N/A	\$0.00	\$0		\$0	\$0
Passive/biological additives	\$/ha		#N/A	\$0.00	\$0		\$0	\$0
Passive additives purchase and shipping	tonne		#N/A	\$0.00	\$0		\$0	\$0
Other			#N/A	\$0.00	\$0		\$0	\$0
		Ann	ual pump		\$0			
Number of years of pump flooding	years							
	,	To	tal pump	ing costs	\$0		\$0	\$0
				Total	\$1,080		\$540	\$540
				of Total	. ,		50%	50%

Open Pit Name:	Phaser			Pit # <u>4</u>				
ACTIVITY/MATERIAL	Notes Units		Cost Code	Unit Cost	Cont	% Land	Land Cost	Water Cost
CONTROL ACCESS	notes Units	Quantity C	oae	Cost	Cost	Land	Cost	Cost
Fence	m	+	fN/A	\$0.00	\$0		\$0	\$0
Signs	each		N/A	\$0.00	\$0		\$0	\$0
Berm at crest and rock barricade at ramp	m3	450 DR		\$2.40	\$1,080	50%	\$540	\$540
Block roads	m3	100 511		Q2.10	ψ1,000	0070	ψ010	ψ0.10
Other		#	łN/A	\$0.00	\$0		\$0	\$0
STABILITY STUDY					**			
Conduct stability and setback study	allow	#	łN/A	\$0.00	\$0		\$0	\$0
STABILIZE SLOPES								
Off-load crest, soil A	m3	#	łN/A	\$0.00	\$0		\$0	\$0
Off-load crest, soil B	m3	#	N/A	\$0.00	\$0		\$0	\$0
Doze/trim overburden at crest	m3	#	łN/A	\$0.00	\$0		\$0	\$0
Drill & blast pit crest	m3	#	N/A	\$0.00	\$0		\$0	\$0
Buttress slope	m3	#	N/A	\$0.00	\$0		\$0	\$0
	m3	#	N/A	\$0.00	\$0		\$0	\$0
Other		#	łN/A	\$0.00	\$0		\$0	\$0
COVER/CONTOUR SLOPES								
Place fill, soil A	m3	#	fN/A	\$0.00	\$0		\$0	\$0
Place fill, soil B	m3	#	fN/A	\$0.00	\$0		\$0	\$0
Rip rap	m3	#	łN/A	\$0.00	\$0		\$0	\$0
Vegetate slopes	ha	#	łN/A	\$0.00	\$0		\$0	\$0
Vegetate pit floor	ha	#	łN/A	\$0.00	\$0		\$0	\$0
Other		#	łN/A	\$0.00	\$0		\$0	\$0
CONSTRUCT DIVERSION DITCHES								
Excavate ditches -soil	m3	#	łN/A	\$0.00	\$0		\$0	\$0
Excavate ditches -rock	m3	±	łN/A	\$0.00	\$0		\$0	\$0
Rip rap in channel base	m3		ŧN/A	\$0.00	\$0		\$0	\$0
CONSTRUCT SPILLWAY	III3	*	HN/A	\$0.00	φυ		φU	φU
Excavate channel	m3	4	fN/A	\$0.00	\$0		\$0	\$0
Concrete	m3		łN/A	\$0.00	\$0		\$0	\$0
Rip rap	m3		łN/A	\$0.00	\$0		\$0	\$0
Other	1110		N/A	\$0.00	\$0		\$0	\$0
RECLAIM QUARRIES		7	14//	ψ0.00	ΨΟ		ΨΟ	ΨΟ
Contour slopes	m3	±	łN/A	\$0.00	\$0		\$0	\$0
Place overburden	m3		łN/A	\$0.00	\$0		\$0	\$0
Vegetate	m3		łN/A	\$0.00	\$0		\$0	\$0
FLOOD PIT-Capital				*****	**			
Remove stationary equipment (sump pumps)	each	#	łN/A	\$0.00	\$0		\$0	\$0
Remove dewatering pipeline	m		fN/A	\$0.00	\$0		\$0	\$0
Remove power lines	each	#	łN/A	\$0.00	\$0		\$0	\$0
Construct diversion ditches	m3		łN/A	\$0.00	\$0		\$0	\$0
-Ditch, mat'l A	m3		łN/A	\$0.00	\$0		\$0	\$0
-Ditch, mat'l B	m3		fN/A	\$0.00	\$0		\$0	\$0
Construct embankment/dam	m3		fN/A	\$0.00	\$0 \$0		\$0 \$0	\$0 \$0
					\$0 \$0		\$0 \$0	\$0 \$0
Supply/install pump station Supply/install piping system	each m		ŧN/A ŧN/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0	\$0 \$0
Remove pump post-closure	each		fN/A	\$0.00	\$0 \$0		\$0 \$0	\$0 \$0
Remove pipeline post-closure	m		fN/A	\$0.00	\$0		\$0	\$0
FLOOD PIT-Annual Cost	111	*	HN/A	\$0.00	φυ		φU	φU
Operate pumps (power)	m3	4	fN/A	\$0.00	\$0		\$0	\$0
Maintain pump/pipeline	allow		fN/A	\$0.00	\$0 \$0		\$0 \$0	\$0 \$0
Labour: fuel management, commissioning/dec			fN/A	\$0.00	\$0 \$0		\$0 \$0	\$0 \$0
Chemical addition, kg/m3 of water	tonne		fN/A	\$0.00	\$0		\$0	\$0
Chemicals, purchase and shipping	tonne		fN/A	\$0.00	\$0		\$0	\$0
Passive/biological additives	\$/ha		łN/A	\$0.00	\$0		\$0	\$0
Passive additives purchase and shipping	tonne		fN/A	\$0.00	\$0		\$0	\$0
Other	torine		łN/A	\$0.00	\$0		\$0	\$0
0.00				ng costs	\$0		90	90
Number of years of pump flooding	years	,	_ upii	50010	ΨΟ			
	y cars	Total	numpir	ng costs	\$0		\$0	\$0
		. 014	,	Total	\$1,080		\$540	\$540
				of Total	Ψ.,500		50%	50%

			Cost			%		
ACTIVITY/MATERIAL Notes	Units	Quantity	Code	Unit Cost	Cost	Land	Land Cost	Water Cost
CONTROL ACCESS fence			#N/A	\$0.00	\$0		\$0	
	m							
ligns	each		#N/A	\$0.00	\$0		\$0	
derm	m3		#N/A	\$0.00	\$0		\$0	
Block roads	m3		#N/A	\$0.00	\$0		\$0	
Other			#N/A	\$0.00	\$0		\$0	
TABILIZE EMBANKMENT(S)			//**/	***			¢0	
oe buttress, drainage layer	m3		#N/A	\$0.00	\$0		\$0	
oe buttress, bulk fill	m3		#N/A	\$0.00	\$0		\$0	
Rip rap	m3		#N/A	\$0.00	\$0		\$0	
'egetate	ha		#N/A	\$0.00	\$0		\$0	
Raise crest	m3		#N/A	\$0.00	\$0		\$0	
latten slopes	m3		#N/A	\$0.00	\$0		\$0	
Other			#N/A	\$0.00	\$0		\$0	
OVER TAILINGS - North Cell								
IPAG_UM waste rock Updated takeoff quantities, new design	m3	3,227,600	SB3L	\$5.10	\$16,460,760	50%	\$8,230,380	\$8,230,
Grade/shape tailings surface	m3		#N/A	\$0.00	\$0		\$0	
iner bedding	m3		#N/A	\$0.00	\$0		\$0	
subgrade preparation - compact	m2		#N/A	\$0.00	\$0		\$0	
upply geotextile/geosynthetic	m2		#N/A	\$0.00	\$0		\$0	
nstall geotextile/geosynthetic	m2		#N/A	\$0.00	\$0		\$0	
Soil cover	m3		#N/A	\$0.00	\$0		\$0	
Rock cover	m3		#N/A	\$0.00	\$0		\$0	
/egetate	m2		#N/A	\$0.00	\$0		\$0	
Other			#N/A	\$0.00	\$0		\$0	
ITCHES - North Cell								
ITCHES excavate soil Updated takeoff quantities	m3		SB2L	\$4.60	\$0	50%		
ITCHES excavate roc Updated takeoff quantities	m3		RB2L	\$12.05	\$0	50%	\$0	
PAG waste rockfill Updated takeoff quantities	m3	0	SB4L	\$5.50	\$0	50%	\$0	
OLLECTION POND - North Cell			0001	24.00		500/	¢ο	
OND excavate soil Updated takeoff quantities OND excavate rock Updated takeoff quantities	m3 m3		SB2L RB2L	\$4.60 \$12.05	\$0 \$0	50% 50%	\$0 \$0	
PAG waste rockfill Updated takeoff quantities	m3		SB4L	\$5.50	\$0 \$0	50%	\$0	
OVER TAILINGS - South Cell	IIIJ	U	JD4L	φ5.50	φυ	30 /0	ΨΟ	
PAG_UM waste rock Updated takeoff quantities, new design	m3	1,229,500	SB4L	\$5.50	\$6,762,250	50%	\$3,381,125	\$3,381
rade/shape tailings surface	m3	, .,	#N/A	\$0.00	\$0		\$0	
ner bedding	m3		#N/A	\$0.00	\$0		\$0	
ubgrade preparation - compact	m2		#N/A	\$0.00	\$0		\$0	
upply geotextile/geosynthetic	m2		#N/A	\$0.00	\$0		\$0	
stall geotextile/geosynthetic	m2		#N/A	\$0.00	\$0		\$0	
oil cover	m3		#N/A	\$0.00	\$0		\$0	
ock cover	m3		#N/A	\$0.00	\$0		\$0	
					\$0 \$0		\$0	
egetate	m2		#N/A	\$0.00				
ther			#N/A	\$0.00	\$0		\$0	
OVER TAILINGS - Portage and Goose Pits (1 m of crushed waste rock)	0	0	CD4I	64.00	60	E00/	\$0	
ecover, load, haul and Goose Pit pad, haul, spread and Goose Pit	m3 m3		SB1L SB3L	\$4.30 \$5.10	\$0 \$0	50% 50%	\$0 \$0	
ecover, load, haul and Portage Pit A	m3		SB1L	\$4.30	\$0 \$0	50%	\$0	
pad, haul, spread and Portage Pit A	m3		SB3L	\$5.10	\$0	50%	\$0	
ecover, load, haul and Portage Pit E	m3		SB1L	\$4.30	\$0	50%	\$0	
oad, haul, spread and Portage Pit E	m3	0	SB3L	\$5.10	\$0	50%	\$0	
ITCHES - South Cell								
ITCHES excavate roc Updated takeoff quantities	m3	152000		\$12.05	\$1,831,600	50%	\$915,800	
ITCHES excavate roci Updated takeoff quantities	m3	57600		\$12.05	\$694,080	50%		
PAG waste rockfill Updated takeoff quantities	m3	0	SB4L	\$5.50	\$0	50%	\$0	
OLLECTION POND - South Cell OND average asil			CDOL	0100	**	E00'	<b>#</b> 0	
OND excavate soil Updated takeoff quantities OND excavate rock Updated takeoff quantities	m3 m3	481326	SB2L	\$4.60 \$12.05	\$0 \$5,799,978	50% 50%	\$0 \$2,899,989	
PAG waste rockfill Updated takeoff quantities	m3 m3		SB4L	\$12.05 \$5.50	\$5,799,978	50%		
REACH SADDLE DAM 3	1113	- 0	JD4L	φ3.50	\$0	30 %	φυ	
xcavate Breach Sadd Removed as no longer required	m3	0	SB2L	\$4.60	\$0	50%	\$0	
cock placement Removed as no longer required	m3		SB4H	\$4.00 \$11.00	\$0	50%	\$0	
EMOVE PIPING ADDED FOR IN-PIT DEPOSITION	1113		20 111	Ψ11.00	90	50 /0	ΨΟ	
emoving Piping	m	16035	PLRL	\$22.00	\$352,770	50%	\$176,385	\$176
EMOVE TAILINGS DISCHARGE			_	<del></del>			,	Ţ.,,
Distribution line to Vault is addressed within the Water								
emoving Piping Management Tab	m	7000	PLRL	\$22.00	\$154,000	50%	\$77,000	
ismantle Booster Pump	allow	1	OPS	\$15,630.00	\$15,630	50%	\$7,815	\$7

Tailings Impoundment Name:				Pond #			
ACTIVITY/MATERIAL Notes	Units	Quantity	Cost Code	Unit Cost	% Cost La	nd Land Cost	Water Cost
BURY PAG ROCK							
Relocate PAG rock	m3		#N/A	\$0.00	\$0	\$1	0
Place cover over PAG rock	m3		#N/A	\$0.00	\$0	\$1	)
Raise crest of dam	m3		#N/A	\$0.00	\$0	\$1	)
Other			#N/A	\$0.00	\$0	\$1	
STABILIZE DECANT SYSTEM			#1 <b>4</b> //-4	φυ.υυ	ΨΟ	<u> </u>	,
Excavate and replace	m3		#N/A	\$0.00	\$0	\$1	
Plug/backfill with concrete or clay	m3		#N/A	\$0.00	\$0	\$1	)
Other			#N/A	\$0.00	\$0	\$1	0
REMOVE TAILINGS DISCHARGE							
Cyclones	m3		#N/A	\$0.00	\$0	\$1	
Pipe	m3		#N/A	\$0.00	\$0	\$1	
Remove reclaim barge CONSTRUCT DIVERSION DITCHES	allow		#N/A	\$0.00	\$0	\$1	0
Excavate ditches -soil	m3		#N/A	\$0.00	\$0	\$i	า
Excavate ditches -rock	m3		#N/A	\$0.00	\$0	\$1	
Excavate ditches -rock  Rip rap in channel base	m3		#N/A #N/A	\$0.00	\$0 \$0	\$1	
FLOOD TAILINGS	IIIo		#IN/A	\$0.00	Φ0	ψ	J
Doze tailings to final contour	m3		#N/A	\$0.00	\$0	\$1	)
Raise crest of dam	m3		#N/A	\$0.00	\$0	\$1	0
Other			#N/A	\$0.00	\$0	\$1	)
JPGRADE SPILLWAY			,,,,,,	ψ0.00	<del>,</del>	•	
xcavate channel, rock	m3		#N/A	\$0.00	\$0	\$1	)
Excavate channel, soil	m3		#N/A	\$0.00	\$0	\$1	0
Concrete	m3		#N/A	\$0.00	\$0	\$1	0
Rip rap	m3		#N/A	\$0.00	\$0	\$1	)
Other			#N/A	\$0.00	\$0	\$1	
CONSTRUCT SEEPAGE COLLECTION POND			,,,,,,	ψ0.00	<del>,</del>	•	
xcavate seepage collection pond	m3		#N/A	\$0.00	\$0	\$1	)
Doze & spread excavated material	m3		#N/A	\$0.00	\$0	\$1	)
/egetate spread material	ha		#N/A	\$0.00	\$0	\$1	ס
Bedding layer	m3		#N/A	\$0.00	\$0	\$1	0
Supply geomembrane	m2		#N/A	\$0.00	\$0	\$1	0
nstall geomembrane	m2		#N/A	\$0.00	\$0	\$1	)
Erosion protection layer	m3		#N/A	\$0.00	\$0	\$1	
NSTALL GROUNDWATER COLLECTION SYSTEM	1110		#14/74	ψ0.00	ΨΟ	•	,
Excavate/install sumps	m3		#N/A	\$0.00	\$0	\$1	0
nstall pumping wells	m3		#N/A	\$0.00	\$0	\$1	0
nstall pumps/pipelines/power supply SPECIALIZED ITEMS	LS		#N/A	\$0.00	\$0	\$1	0
nstall permanent instrumentation, supply & technican	each		#N/A	\$0.00	\$0	\$i	)
nstall permanent instrumentation and drilling	each	5	OPS	\$10,000.00		50% \$25,00	
FREAT SEEPAGE - see "Water Management" and "Water Treatment"				,			
Pump water (to pit, U/G)	m3		#N/A	\$0.00	\$0	\$1	
Equipment maintenance and parts	allow		#N/A	\$0.00	\$0	\$(	)
Supply reagents	tonne		#N/A	\$0.00	\$0	\$1	)
Number of years of treatment	years			Annual treatment costs	\$0		
Tambor or your or troublest	ycars			Total treatment costs	\$0		
				Total	\$32,121,068	\$16,060,53	
* for construction of passive treatment system refer to "Water Management"				% of Total		50%	6 5

<sup>\*</sup> for construction of passive treatment system refer to "Water Management"

Porta

Rock Pile Name:	ge							
ACTIVITY/MATERIAL No	otes Units	Quantity	Cost Code	Unit Cost	Cost	% Land	Land Cost	Water Cost
STABILIZE SLOPES								
Flatten slopes with dozer	m3		#N/A	\$0.00	\$0		\$0	\$1
Flatten "bubble dump" areas	m3		#N/A	\$0.00	\$0		\$0	\$1
Divert runon, ditch mat'l A	m3		#N/A	\$0.00	\$0		\$0	\$
Divert runon, ditch mat'l B	m3		#N/A	\$0.00	\$0		\$0	\$
Toe buttress, drain mat'l	m3		#N/A	\$0.00	\$0		\$0	\$
Toe buttress, fill mat'l A	m3		#N/A	\$0.00	\$0		\$0	\$
Toe buttress, fill mat'l B	m3		#N/A	\$0.00	\$0		\$0	\$
Other			#N/A	\$0.00	\$0		\$0	\$
COVER ROCK PILE			#11//	\$0.00	φυ		ΨΟ	φ
NPAG UM waste rock cover	m3	######	SB3L	\$5.10	\$2,622,854	50%	\$1,311,427	\$1,311,42
Subgrade preparation - doze surface	m3		#N/A	\$0.00	\$0		\$0	\$
Soil cover - excavate,haul,spread&compac			#N/A	\$0.00	\$0		\$0	S
Rock cover - excavate,haul & spread	m3		#N/A	\$0.00	\$0		\$0	\$
Excavate downslope drainage channel & cl	hute m3		#N/A	\$0.00	\$0		\$0	\$
Rip rap drainage channel and chute	m3		#N/A	\$0.00	\$0		\$0	\$
Vegetate	ha		#N/A	\$0.00	\$0		\$0	\$
Other			#N/A	\$0.00	\$0		\$0	\$
COVER SUMPS							017.010	
NPAG UM waste rock cover	m3	6800		\$5.10	\$34,680	50%		\$17,34
Other			#N/A	\$0.00	\$0		\$0	\$
VERY LOW PERMEABILITY COVER (in a Liner subgrade preparation - compact	iddillon to at m2		#N/A	\$0.00	\$0		\$0	S
Supply geomembrame	m2		#N/A	\$0.00	\$0 \$0		\$0	3
Install geomembrane	m2		#N/A	\$0.00	\$0 \$0		\$0	3
Protective cover - excavate,haul,spread&co			#N/A	\$0.00	\$0		\$0	\$
Vegetate	ha		#N/A	\$0.00	\$0		\$0	3
Install infiltration/seepage instrumentation	allow		#N/A	\$0.00	\$0		\$0	3
CONSTRUCT DIVERSION DITCHES								
Excavate ditches -soil	m3		#N/A	\$0.00	\$0		\$0	\$
Excavate ditches -rock	m3		#N/A	\$0.00	\$0		\$0	\$
Rip rap in channel base	m3		#N/A	\$0.00	\$0		\$0	\$
CONSTRUCT SEEPAGE COLLECTION F	POND							
Excavate seepage collection pond	m3		#N/A	\$0.00	\$0		\$0	\$
Doze & spread excavated material	m3		#N/A	\$0.00	\$0		\$0	\$
Vegetate spread material	ha		#N/A	\$0.00	\$0		\$0	\$
Bedding layer	m3		#N/A	\$0.00	\$0		\$0 \$0	\$
Supply geomembrane Install geomembrane	m2 m2		#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0	\$ \$
Erosion protection layer	m3		#IN/A	\$0.00	φυ		40	ą.
INSTALL GROUNDWATER COLLECTION								
Excavate/install sumps	m3		#N/A	\$0.00	\$0		\$0	5
Install pumping wells	m3		#N/A	\$0.00	\$0		\$0	\$
Install pumps/pipelines/power supply	allow		#N/A	\$0.00	\$0		\$0	\$
RELOCATE DUMPS	2			\$0.00	Ų.			
Load, haul, dump or doze	m3		#N/A	\$0.00	\$0		\$0	\$
Add lime	tonne		#N/A	\$0.00	\$0		\$0	\$
Contour reclaimed area	ha		#N/A	\$0.00	\$0		\$0	\$
Other			#N/A	\$0.00	\$0		\$0	\$
SPECIALIZED ITEMS								
Install permanent instrumentation	each		OPS	\$10,000.00	\$50,000	50%	\$25,000	\$25,00
Install permanent instrumentation, drilling	each		#N/A	\$0.00	\$0		\$0	\$
TREAT ROCK PILE SEEPAGE - see "Wa								
HEAP LEACH SEEPAGE TREATMENT -			#N/A	\$0.00	\$0		\$0	S
Cyanide destruction water treatment pump Reagents	ing m3 tonnes		#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0	\$
Reagents Electrician/mechanic to maintain treatment			#N/A #N/A	\$0.00	\$0 \$0		\$0 \$0	\$
Electrician/mechanic to maintain treatment Equipment maintenance and parts	piani allow allow		#N/A #N/A	\$0.00	\$0 \$0		\$0	\$
Equipment maintenance and parts	ailUW		#IN//A	Annual treatment costs	\$0		40	4
Number of years of treatment	years			, amade trodutions costs	φυ			
	, our			Total treatment costs	\$0			\$
HEAP LEACH SEEPAGE TREATMENT -	ARD/ML**				•			
Upgrade/modify pumping system - report to			#N/A	\$0.00	\$0			\$
				Total	\$2,707,534		\$1,353,767	\$1,353,76
				% of Total			50%	509

<sup>\*</sup> For construction of passive treatment system refer to "Water Management". ARD/ML seepage treatment becomes post-closure water treatment cost \*\*Heap leach ARD/ML seepage treatment becomes post-closure water treatment cost

Rock Pile Name:	Vault			<u>1</u>			
ACTIVITY/MATERIAL Notes	Units	Quantity	Cost Code	Unit Cost	% Cost La		Water Cost
COVER ROCK PILE	0	quantity		0	0001 21	20 0001	Traitor Goot
Flatten slopes with dozer	m3		#N/A	\$0.00	\$0	\$0	\$0
Flatten "bubble dump" areas	m3		#N/A	\$0.00	\$0	\$0	
Divert runon, ditch mat'l A	m3		#N/A	\$0.00	\$0	\$0	
Divert runon, ditch mat'l B	m3		#N/A	\$0.00	\$0	\$0	
Toe buttress, drain mat'l	m3		#N/A	\$0.00	\$0	\$0	
Toe buttress, drain mat i	m3		#N/A	\$0.00	\$0 \$0	\$0 \$0	
Toe buttress, fill mat'l B	m3		#N/A	\$0.00	\$0	\$0	
Other	III3		#N/A	\$0.00	\$0 \$0	\$0 \$0	
COVER ROCK PILE							
NPAG UM waste rock cover (4 m thick) Subgrade preparation - doze surface	m3	0	SB3L #N/A	\$5.10 \$0.00	\$0 \$0	\$0 \$0	
Soil cover - excavate, haul, spread&compact	m3 m3		#N/A	\$0.00	\$0 \$0	\$0 \$0	
Rock cover - excavate, haul & spread	m3		#N/A	\$0.00	\$0	\$0	
Excavate downslope drainage channel & chute	m3		#N/A	\$0.00	\$0	\$0	
1 0			#N/A	\$0.00	\$0	\$0	
			#N/A	\$0.00	\$0	\$0	
			#N/A	\$0.00	\$0	\$0	\$0
		0	#N/A	\$0.00	\$0	\$0	
			#N/A	\$0.00	\$0	\$0	\$0
			#N/A	\$0.00	\$0	\$0	
			#N/A	\$0.00	\$0	\$0	
			#N/A	\$0.00	\$0	\$0	
			#N/A	\$0.00	\$0	\$0	
			#N/A #N/A	\$0.00 \$0.00	\$0 \$0	\$0 \$0	
			#N/A	\$0.00	\$0	\$0	
			#N/A #N/A	\$0.00 \$0.00	\$0 \$0	\$0 \$0	
			#N/A	\$0.00	\$0	\$0	\$0
			#N/A	\$0.00	\$0	\$0	
			#N/A	\$0.00	\$0	\$0	
			#N/A	\$0.00	\$0	\$0	
C	0		#N/A	\$0.00	\$0	\$0	
Supply geomembrane Install geomembrane	m2 m2		#N/A #N/A	\$0.00 \$0.00	\$0 \$0	\$0 \$0	
Erosion protection layer	m3		#IN/A	φ0.00	ΨΟ	ΨΟ	90
INSTALL GROUNDWATER COLLECTION SYSTEM	1110						
Excavate/install sumps	m3		#N/A	\$0.00	\$0	\$0	\$0
Install pumping wells	m3		#N/A	\$0.00	\$0	\$0	\$0
Install pumps/pipelines/power supply RELOCATE DUMPS	allow		#N/A	\$0.00	\$0	\$0	\$0
Load, haul, dump or doze	m3		#N/A	\$0.00	\$0	\$0	\$0
Add lime	tonne		#N/A	\$0.00	\$0	\$0	
Contour reclaimed area	ha		#N/A	\$0.00	\$0	\$0	\$0
Other			#N/A	\$0.00	\$0	\$0	\$0
SPECIALIZED ITEMS			ODC	640,000,00	#20.00°	E00/ 64E 000	645.000
Install permanent instrumentation	each each	3	OPS #N/A	\$10,000.00 \$0.00	\$30,000 \$0	50% \$15,000 \$0	
Install permanent instrumentation, drilling TREAT ROCK PILE SEEPAGE - see "Water Treatment"	eacn		#IN/A	φυ.υυ	φυ	\$0	\$0
HEAP LEACH SEEPAGE TREATMENT - Cyanide Detox							
Cyanide destruction water treatment pumping	m3		#N/A	\$0.00	\$0	\$0	
Reagents	tonnes		#N/A	\$0.00	\$0 \$0	\$0	
Electrician/mechanic to maintain treatment plant Equipment maintenance and parts	allow allow		#N/A #N/A	\$0.00 \$0.00	\$0 \$0	\$0 \$0	
	allOW			eatment costs	\$0 \$0	\$0	\$0
Number of years of treatment	years		Total to	eatment costs	\$0		\$0
HEAP LEACH SEEPAGE TREATMENT - ARD/ML**					• •		
Upgrade/modify pumping system - report to WTP	allow		#N/A	\$0.00 Total	\$0 \$30,000	\$15,000	\$0 \$15,000
				% of Total	ψου,υου	50%	50%

<sup>\*</sup> For construction of passive treatment system refer to "Water Management". ARD/ML seepage treatment becomes post-closure water treatment cost \*\*Heap leach ARD/ML seepage treatment becomes post-closure water treatment cost

Mead

Mill   Mill	\$0 \$0 2,520 \$72,520 \$0 \$72,520 \$0 \$72,520 \$0 \$0 8,500 \$1,228,500 6,250 \$406,250 4,050 \$24,050 1,125 \$21,125 3,375 \$63,375 \$9,900 9,900 \$9,900 2,613 \$382,613 4,300 \$294,300 \$11,250 \$11,250 4,215 \$64,215 2,500 \$472,500
ACTIVITY/MATERIAL Notes   Units Quantity   Code   Unit Cost   Cost Land   Land Composer	\$0 \$0 2,520 \$72,520 \$0 \$72,520 \$0 \$72,520 \$0 \$0 8,500 \$1,228,500 6,250 \$406,250 4,050 \$24,050 1,125 \$21,125 3,375 \$63,375 \$9,900 9,900 \$9,900 2,613 \$382,613 4,300 \$294,300 \$11,250 \$11,250 4,215 \$64,215 2,500 \$472,500
DISPOSE MOBILE EQUIPMENT	2,520 \$72,520 \$0 \$72,520 \$0 \$1,228,500 6,250 \$406,250 4,050 \$24,050 1,125 \$21,125 3,375 \$63,375 9,900 \$9,900 2,613 \$382,613 4,300 \$294,300 1,250 \$11,250 4,215 \$64,215 2,288 \$42,288
Decontaminate and dispose on-manhours	2,520 \$72,520 \$0 \$72,520 \$0 \$1,228,500 6,250 \$406,250 4,050 \$24,050 1,125 \$21,125 3,375 \$63,375 9,900 \$9,900 2,613 \$382,613 4,300 \$294,300 1,250 \$11,250 4,215 \$64,215 2,288 \$42,288
Cibner         #N/A         \$0.00         \$0           REMOVE BUILDINGS - see note below         #N/A         \$0.00         \$0           Mill Complex:         Mill Complex:         37800         BRS1H         \$65.00         \$2,457,000         50%         \$1,225           Mill Leech Tanks         m2         12500         BRS1H         \$65.00         \$412,500         50%         \$40           Primary and Secondary Cr         m2         740         BRS1H         \$65.00         \$42,250         50%         \$42           Pebble Crusher         m2         650         BRS1H         \$65.00         \$42,250         50%         \$2           Conveyors         m2         1950         BRS1H         \$65.00         \$126,750         50%         \$2           Conveyors         m2         1950         BRS1H         \$45.00         \$19,800         50%         \$6           Assay Lab         m2         140         BRS1L         \$45.00         \$19,800         50%         \$6           Ascomodation Complex (Inc. Ni         m2         17005         BRS1L         \$45.00         \$568,200         50%         \$38           Services Building         m2         13080         BRS1L	\$0 \$0 8.500 \$1,228,500 6,250 \$406,250 4,050 \$24,050 1,125 \$21,125 3,375 \$63,375 9,900 \$9,900 4,300 \$294,300 \$11,250 \$11,250 4,215 \$64,215 2,500 \$472,500
REMOVE BUILDINGS - see note below           Mill Complex:         Mill Complex:           Mill Leech Tanks         m2         37800 BRS1H         \$65.00 \$2,457,000 \$0%         \$1,221           Leech Tanks         m2         12500 BRS1H         \$65.00 \$342,500 50%         \$42           Primary and Secondary Cr         m2         740 BRS1H         \$65.00 \$42,250 50%         \$42           Pebble Crusher         m2         650 BRS1H         \$65.00 \$42,250 50%         \$22           Conveyors         m2         1950 BRS1H         \$65.00 \$126,750 50%         \$2           Assay Lab         m2         440 BRS1L         \$45.00 \$19,800 50%         \$3           Accomodation Complex (Inc. Ni         m2         17005 BRS1L         \$45.00 \$765,225 50%         \$38           Services Building         m2         13080 BRS1L         \$45.00 \$528,600 50%         \$2           Dome Warehouse         m2         2854 BRS1L         \$45.00 \$22,500 50%         \$3           Dome Warehouse         m2         21000 BRS1L         \$45.00 \$128,430 50%         \$6           Ore Dome         m2         2854 BRS1L         \$45.00 \$128,430 50%         \$6           Power Plant         m2         7455 BRS1H         \$65.00 \$448,4575 50%         \$22	8,500 \$1,228,500 6,250 \$406,255 1,125 \$21,125 3,375 \$63,375 9,900 \$9,900 2,613 \$382,613 4,300 \$294,300 1,250 \$41,250 4,215 \$64,215 2,288 \$242,288
Mill Complex         Mill Complex         Section 1         \$65.00         \$2,457,000         50%         \$1,225           Mill Mill Leech Tanks         m2         12500 BRS1H         \$65.00         \$812,500         50%         \$40           Primary and Secondary Cr         m2         740 BRS1H         \$65.00         \$48,100         50%         \$40           Pebble Crusher         m2         650 BRS1H         \$65.00         \$42,250         50%         \$2           Corveyors         m2         1950 BRS1H         \$65.00         \$126,750         50%         \$2           Assay Lab         m2         440 BRS1L         \$45.00         \$19,800         50%         \$3           Accomodation Complex (Inc. Ni         m2         17005 BRS1L         \$45.00         \$765,225         50%         \$3           Site Services Building         m2         13080 BRS1L         \$45.00         \$588,600         50%         \$3           Site Services Building         m2         2508 BRS1L         \$45.00         \$22,500         50%         \$3           Dome Warehouse         m2         2854 BRS1L         \$45.00         \$128,430         50%         \$6           Ore Dome         m2         7455 BRS1H	6,250 \$406,250 4,050 \$24,050 1,125 \$21,125 3,375 \$63,375 9,900 \$9,900 \$2,613 \$32,613 4,300 \$294,300 1,250 \$11,250 4,215 \$64,215 2,2500 \$472,288
Leech Tanks	6,250 \$406,250 4,050 \$24,050 1,125 \$21,125 3,375 \$63,375 9,900 \$9,900 \$2,613 \$32,613 4,300 \$294,300 1,250 \$11,250 4,215 \$64,215 2,2500 \$472,288
Primary and Secondary Cr         m2         740         BRS1H         \$65.00         \$48,100         50%         \$22           Pebble Crusher         m2         650         BRS1H         \$65.00         \$42,250         50%         \$2           Conveyors         m2         1950         BRS1H         \$65.00         \$12,6750         50%         \$6           Assay Lab         m2         440         BRS1L         \$45.00         \$19,800         50%         \$38           Accomodation Complex (Inc. Ni         m2         17005         BRS1L         \$45.00         \$765,225         50%         \$38           Services Building         m2         13080         BRS1L         \$45.00         \$588,600         50%         \$2           Site Services Building         m2         2854         BRS1L         \$45.00         \$22,500         50%         \$31           Dome Warehouse         m2         2854         BRS1L         \$45.00         \$128,430         50%         \$6           Ore Dome         m2         2100         BRS1L         \$45.00         \$945,000         50%         \$47           Power Plant         m2         2690         BRS1L         \$45.00         \$44,1625	4,050 \$24,050 1,125 \$21,125 3,375 \$63,375 9,900 \$9,900 2,613 \$382,613 4,300 \$294,300 1,250 \$11,250 4,215 \$64,215 2,500 \$472,500 2,288 \$242,288
Pebble Crusher         m2         650 BRS1H         \$65.00         \$42,250         50%         \$2           Conveyors         m2         1950 BRS1H         \$65.00         \$126,750         50%         \$2           Assay Lab         m2         1400 BRS1L         \$45.00         \$19,800         50%         \$3           Accomodation Complex (Inc. Ni         m2         17005 BRS1L         \$45.00         \$765,225         50%         \$32           Services Building         m2         13080 BRS1L         \$45.00         \$22,500         50%         \$32           Site Services Building         m2         500 BRS1L         \$45.00         \$22,500         50%         \$3           Dome Warehouse         m2         2854 BRS1L         \$45.00         \$22,500         50%         \$4           Power Plant         m2         21000 BRS1L         \$45.00         \$945,000         50%         \$47           Power Plant         m2         7455 BRS1H         \$65.00         \$484,575         50%         \$24           Cat Warehouse         m2         2958 BRS1L         \$45.00         \$41,625         50%         \$25           Fountain Tre         m2         330 BRS1L         \$45.00         \$41,625	1,125 \$21,125 3,375 \$63,375 99,900 \$9,900 2,613 \$382,613 4,300 \$294,300 1,250 \$11,250 4,215 \$64,215 2,500 \$472,500 2,288 \$242,288
Conveyors         m2         1950         BRS1H         \$65,00         \$126,750         50%         \$3           Assay Lab         440         BRS1L         \$45,00         \$19,800         50%         \$3           Accomodation Complex (Inc. Ni         m2         17005         BRS1L         \$45,00         \$765,225         50%         \$38           Services Building         m2         13080         BRS1L         \$45,00         \$588,600         50%         \$25           Site Services Building         m2         500         BRS1L         \$45,00         \$22,500         50%         \$51           Dome Warehouse         m2         2854         BRS1L         \$45,00         \$128,430         50%         \$47           Power Plant         m2         21000         BRS1L         \$45,00         \$124,600         50%         \$47           Cat Warehouse         m2         269         BRS1L         \$45,00         \$12,100         50%         \$24           Toromort Facilities         m2         925         BRS1L         \$45,00         \$14,655         50%         \$2           Fountain Tre         m2         330         BRS1L         \$45,00         \$14,655         50% <t< td=""><td>3,375 \$63,375 9,900 \$9,900 2,613 \$382,613 4,300 \$294,300 \$11,250 \$11,250 \$4,215 \$64,215 2,500 \$472,500 \$242,288</td></t<>	3,375 \$63,375 9,900 \$9,900 2,613 \$382,613 4,300 \$294,300 \$11,250 \$11,250 \$4,215 \$64,215 2,500 \$472,500 \$242,288
Assay Lab         m2         440         BRS1L         \$45,00         \$19,800         50%         \$3           Accomodation Complex (Inc. Ni         m2         17005         BRS1L         \$45,00         \$765,225         50%         \$38           Services Building         m2         13080         BRS1L         \$45,00         \$22,500         50%         \$29           Site Services Building         m2         500         BRS1L         \$45,00         \$22,500         50%         \$2           Dome Warehouse         m2         2854         BRS1L         \$45,00         \$128,430         50%         \$6           Ore Dome         m2         21000         BRS1L         \$45,00         \$945,000         50%         \$4           Power Plant         m2         7455         BRS1H         \$65,00         \$440,675         50%         \$24           Cat Warehouse         m2         2690         BRS1L         \$45,00         \$121,050         50%         \$2           Fountain Tire         m2         330         BRS1L         \$45,00         \$14,855         50%         \$2           White Coverall         m2         2790         BRS1L         \$45,00         \$14,855         50% </td <td>9,900 \$9,900 2,613 \$382,613 4,300 \$294,300 1,250 \$11,250 4,215 \$64,215 2,500 \$472,500 2,288 \$242,288</td>	9,900 \$9,900 2,613 \$382,613 4,300 \$294,300 1,250 \$11,250 4,215 \$64,215 2,500 \$472,500 2,288 \$242,288
Services Building         m2         13080         BRS1L         \$45.00         \$588.600         50%         \$22.500           Site Services Building         m2         500         BRS1L         \$45.00         \$22.500         50%         \$1           Dome Warehouse         m2         2854         BRS1L         \$45.00         \$128.430         \$0%         \$6           Ore Dome         m2         21000         BRS1L         \$45.00         \$945.000         50%         \$47           Power Plant         m2         7455         BRS1H         \$65.00         \$448.675         50%         \$24           Cat Warehouse         m2         2690         BRS1L         \$45.00         \$121.050         50%         \$6           Toromort Facilites         m2         925         BRS1L         \$45.00         \$41.855         50%         \$2           Fountain Tire         m2         330         BRS1L         \$45.00         \$14.850         50%         \$6           White Coverall         m2         2790         BRS1L         \$45.00         \$125.550         50%         \$6           Batch Plant         m2         2100         BRS1L         \$45.00         \$94.500         50%	4,300 \$294,300 1,250 \$11,250 4,215 \$64,215 2,500 \$472,500 2,288 \$242,288
Site Services Building         m2         500 BRS1L         \$45,00         \$22,500         50%         \$1           Dome Warehouse         m2         2854 BRS1L         \$45,00         \$128,430         50%         \$6           Ore Dome         m2         21000 BRS1L         \$45,00         \$945,000         50%         \$47           Power Plant         m2         7455 BRS1H         \$65,00         \$484,575         50%         \$24           Cat Warehouse         m2         2690 BRS1L         \$45,00         \$121,050         50%         \$24           Toromont Facilities         m2         925 BRS1L         \$45,00         \$41,625         50%         \$2           Fountain Tire         m2         330 BRS1L         \$45,00         \$14,680         50%         \$           White Coverall         m2         2790 BRS1L         \$45,00         \$94,500         50%         \$6           Batch Plant         m2         2100 BRS1L         \$45,00         \$94,500         50%         \$6	1,250 \$11,250 4,215 \$64,215 2,500 \$472,500 2,288 \$242,288
Dome Warehouse         m2         2854 BRS1L         \$45.00         \$128.430         50%         \$67.00           Ore Dome         m2         21000 BRS1L         \$45.00         \$945,000         50%         \$47.70           Power Plant         m2         7455 BRS1H         \$65.00         \$484,675         50%         \$24.70           Cat Warehouse         m2         2690 BRS1L         \$45.00         \$121,050         50%         \$67.70           Toromort Facilities         m2         925 BRS1L         \$45.00         \$41,625         50%         \$22.70           Fountain Tire         m2         230 BRS1L         \$45.00         \$14,650         50%         \$3.70           White Coverall         m2         2700 BRS1L         \$45.00         \$94,500         50%         \$3.70           Batch Plant         m2         2100 BRS1L         \$45.00         \$94,500         50%         \$3.70	4,215 \$64,215 2,500 \$472,500 2,288 \$242,288
Ore Dome         m2         21000 BRS1L         \$45.00         \$945,000         50%         \$47.           Power Plant         m2         7455 BRS1H         \$65.00         \$484,575         50%         \$6.           Cat Warehouse         m2         2690 BRS1L         \$45.00         \$121,050         50%         \$6.           Toromont Facilities         m2         925 BRS1L         \$45.00         \$14,625         50%         \$2.           Fountain Tire         m2         330 BRS1L         \$45.00         \$14,625         50%         \$6.           White Coverall         m2         2790 BRS1L         \$45.00         \$94,500         50%         \$6.           Batch Plant         m2         2100 BRS1L         \$45.00         \$94,500         50%         \$6.	2,500 \$472,500 2,288 \$242,288
Power Plant         m2         7455 BRS1H         \$65.00         \$484,675         50%         \$24'           Cat Warehouse         m2         2690 BRS1L         \$45.00         \$121,050         50%         \$2'           Toromont Facilities         m2         925 BRS1L         \$45.00         \$41,625         50%         \$2'           Fountain Tire         m2         330 BRS1L         \$45.00         \$14,850         50%         \$'           White Coverall         m2         2790 BRS1L         \$45.00         \$94,500         50%         \$6'           Batch Plant         m2         2100 BRS1L         \$45.00         \$94,500         50%         \$6'	2,288 \$242,288
Toromont Facilities         m2         925 BRS1L         \$45.00         \$41,625         50%         \$24           Fountain Tire         m2         330 BRS1L         \$45.00         \$14,860         50%         \$6           White Coverall         m2         2790 BRS1L         \$45.00         \$125,550         50%         \$6           Batch Plant         m2         2100 BRS1L         \$45.00         \$94,500         \$0         \$4	2 505 :
Fountain Tire         m2         330 BRS1L         \$45.00         \$14.850         50%         \$\$           White Coverall         m2         2790 BRS1L         \$45.00         \$125,550         50%         \$\$           Batch Plant         m2         2100 BRS1L         \$45.00         \$94,500         \$0%         \$4	0,525 \$60,525
White Coverall         m2         2790 BRS1L         \$45.00         \$125,550         50%         \$6           Batch Plant         m2         2100 BRS1L         \$45.00         \$94,500         50%         \$4	0,813 \$20,813
Batch Plant m2 2100 BRS1L \$45.00 \$94,500 50% \$4	7,425 \$7,425
	2,775 \$62,775 7,250 \$47,250
Environmental Office m2 140 BRS1L \$45.00 \$6,300 50% \$	3,150 \$3,150
Dike Dewatering Shop m2 755 BRS1L \$45.00 \$33,975 50% \$10	6,988 \$16,988
Incinerator m2 280 BRS1L \$45.00 \$12,600 50% \$6	6,300 \$6,300
1412011 CHOP 112 200 BRO12 \$10.00 \$10,010 CO10 \$1	5,288 \$5,288
	5,975 \$15,975 2,250 \$2,250
	2,250 \$2,250 5,363 \$5,363
	5,000 \$65.000
	2,075 \$62,075
Containers to Landfill mt 3500 OPS \$20.00 \$70,000 50% \$3	5,000 \$35,000
Other #N/A \$0.00 \$0	\$0 \$0
BREAK BASEMENT SLABS	
	5,633 \$75,633
LANDFILL FOR DEMOLITION WASTE Blast	
rock	
Place rock cover fill m3 #N/A \$0.00 \$0	\$0 \$0
Soil	
Cap -	
Landfil	
l and Septic	
Place soil cover Field m3 #N/A \$0.00 \$0	\$0 \$0
Vegetate ha #N/A \$0.00 \$0	\$0 \$0
GRADE AND CONTOUR PADS	φο
Accomodation Complex ha #N/A \$0.00 \$0	\$0 \$0
Process Facilities ha #N/A \$0.00 \$0	\$0 \$0
Offices, Repair, Lab, Warehous ha #N/A \$0.00 \$0	\$0 \$0
Storage Facilities ha #N/A \$0.00 \$0	\$0 \$0
Water and Wastewater Treatm ha #N/A \$0.00 \$0	\$0 \$0
U/G Heating Plant ha #N/A \$0.00 \$0	\$0 \$0
Emulsion Plant ha #N/A \$0.00 \$0	\$0 \$0
Warehouse. Shops and Other ha #N/A \$0.00 \$0  Warehouse. Shops and Other ha #N/A \$0.00 \$0	\$0 \$0
······································	\$0 \$0
	+- 40
Vegetate ha #N/A \$0.00 \$0	Ψ Ψ
Other #N/A \$0.00 \$0	\$0 \$0
PUNCTURE LINED SUMPS Puncture liner and place soil cor m3 #N/A \$0.00 \$0	\$0 \$0
RECLAIM ROADS, LAYDOWN AREA & AIRSTRIP	φ <b>υ</b> \$0
	2,000 \$42,000
	0,000 \$20,000
Scarify airstriip ha 4.1 SCFYL \$4,300.00 \$17,630 50% \$4	8,815 \$8,815
Scarify laydown areas ha #N/A \$0.00 \$0 50%	\$0 \$0
	5,800 \$25,800
, , , , , , , , , , , , , , , , , , , ,	8,045 \$78,045
	7,290 \$87,290
	3,975 \$13,975
Vegetate ha #N/A \$0.00 \$0	\$0 \$0
Other         #N/A         \$0.00         \$0           SPECIALIZED ITEMS	\$0 \$0
Dispose of misc. debris and laydown area refuse #N/A \$0.00 \$0	\$0 \$0
Dispose of misse, gentis and laydown area refuse #N/A DU.UU DU	+- ψ0
Total \$8,121,236 \$4,060	0,618 \$4,060,618

Note: Unit costs are based on 3m high, single storey building. Scale larger building areas accordingly. E.g. 10m high building multiply are

Building / Equip Name	: Baker Lake			Cost	Bldg / Equip #: 2		%		
ACTIVITY/MATERIAL	Notes	Units	Quantity	Code	Unit Cost	Cost		Land Cost	Water Cost
DISPOSE MOBILE EQUIPMENT Decontaminate and ship off-site		allow		#N/A	\$0.00	\$0		\$0	
Decontaminate and dispose on-site		allow		#N/A	\$0.00	\$0		\$0	
Other REMOVE BUILDINGS - see note below				#N/A	\$0.00	\$0		\$0	
Mill Complex:									
Mill		m2		#N/A	\$0.00	\$0	50%	\$0	
Leech Tanks		m2		#N/A	\$0.00	\$0	50%	\$0	
Primary and Secondary Crusher		m2		#N/A	\$0.00	\$0	50%	\$0	
Pebble Crusher Conveyors		m2 m2		#N/A #N/A	\$0.00 \$0.00	\$0 \$0	50% 50%	\$0 \$0	
Assay Lab		m2		#N/A	\$0.00	\$0	50%	\$0	
Accomodation Complex (Inc. Nova Camp)		m2		#N/A	\$0.00	\$0	50%	\$0	
Services Building		m2		#N/A	\$0.00	\$0	50%	\$0	
Site Services Building		m2		#N/A	\$0.00	\$0	50%	\$0	
				#N/A #N/A	\$0.00 \$0.00	\$0 \$0	50% 50%	\$0 \$0	
				#N/A	\$0.00	\$0	50%	\$0	
				#N/A	\$0.00	\$0	50%	\$0	
				#N/A	\$0.00	\$0	50%	\$0	
				#N/A	\$0.00	\$0	50%	\$0	
				#N/A	\$0.00	\$0	50%	\$0	
				#N/A #N/A	\$0.00 \$0.00	\$0 \$0	50% 50%	\$0 \$0	
				#N/A	\$0.00	\$0	50%	\$0 \$0	
				#N/A	\$0.00	\$0	50%	\$0	
				#N/A	\$0.00	\$0	50%	\$0	
				#N/A	\$0.00	\$0	50%	\$0	
				#N/A	\$0.00	\$0	50%	\$0	
				#N/A	\$0.00	\$0 \$0	50%	\$0	
				#N/A #N/A	\$0.00 \$0.00	\$0 \$0	50% 50%	\$0 \$0	
				#N/A	\$0.00	\$0	50%	\$0	
			21180 BI		\$65.00	\$1,376,700	50%	\$688,350	\$688.3
			720 BI		\$45.00	\$32,400	50%	\$16,200	\$16,2
				#N/A	\$0.00	\$0		\$0	
functure Concrete Foundations		m2	6095 Bi	RCS	\$6.00	\$36,570	50%	\$18,285	\$18,2
ANDFILL FOR DEMOLITION WASTE									
Place rock cover	Blast rock fill	m3		#N/A	\$0.00	\$0		\$0	
Place soil cover	Soil Cap - Landfill and S	m3		#N/A	\$0.00	\$0		\$0	
'egetate		ha		#N/A	\$0.00	\$0		\$0	
RADE AND CONTOUR PADS									
ccomodation Complex		ha		#N/A	\$0.00	\$0		\$0	
rocess Facilities		ha		#N/A	\$0.00	\$0		\$0	
ffices, Repair, Lab, Warehouse		ha		#N/A	\$0.00	\$0		\$0	
torage Facilites		ha		#N/A	\$0.00	\$0		\$0	
ater and Wastewater Treatment Facilities		ha		#N/A	\$0.00	\$0		\$0	
/G Heating Plant		ha		#N/A	\$0.00	\$0		\$0	
mulsion Plant		ha		#N/A	\$0.00	\$0		\$0	
/arehouse, Shops and Other		ha		#N/A	\$0.00	\$0		\$0	
lace rock cover		m3		#N/A	\$0.00	\$0		\$0	
egetate		ha		#N/A	\$0.00	\$0		\$0	
ther				#N/A	\$0.00	\$0		\$0	
UNCTURE LINED SUMPS uncture liner and place soil cover ECLAIM ROADS, LAYDOWN AREA & All	RSTRIP	m3		#N/A	\$0.00	\$0		\$0	
emove culverts		each		#N/A	\$0.00	\$0	50%	\$0	
carify and install water breaks		ha		#N/A	\$0.00	\$0	50%	\$0	
carify airstriip		ha		#N/A	\$0.00	\$0	50%	\$0	
carify laydown areas		ha	50 S	CFYL	\$4,300.00	\$215,000	50%	\$107,500	\$107,
carify access roads (~10 m x 10 km)		ha		#N/A	\$0.00	\$0	50%	\$0	
carify haul roads (~25 m x 14.5 km)		ha		#N/A	\$0.00	\$0	50%	\$0	
carify Portage/Mill Disturbed Area		ha		#N/A	\$0.00	\$0	50%	\$0	
carify Vault Disturbed Area		ha	E700 0	#N/A	\$0.00	\$0	50%	\$0 \$12.200	640
econtour Diversion Ditch		m3	5720 SI		\$4.30	\$24,596	50%	\$12,298	\$12,
egetate		ha		#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0	
Other PECIALIZED ITEMS				#N/A	\$0.00	\$0		\$0	
· LOS ILILLO II LIVIO				#NI/A	eo oo	\$0		\$0	
ispose of misc, debris and lavdown area re	etuse								
Dispose of misc. debris and laydown area re	efuse			#N/A	\$0.00 Total	\$1,685,266		\$842,633	\$842,6

Note: Unit costs are based on 3m high, single storey building. Scale larger building areas accordingly. E.g. 10m high building multiply area by 3.3 (10/3)

Building / Equip Name:	AWAR				Bldg / Equip #: 3				
ACTIVITY/MATERIAL	Notes	Units	Quantity	Cost Code	Unit Cost	Cost	% Land	Land Cost	Water Cost
DISPOSE MOBILE EQUIPMENT	Notes	Ullits	Quantity	Code	Offit Cost	COST	Lanu	Lanu Cost	water cost
Decontaminate and ship off-site		allow		#N/A	\$0.00	\$0		\$0	\$0
Decontaminate and dispose on-site Other		allow		#N/A	\$0.00	\$0 \$0		\$0 \$0	\$0 \$0
REMOVE BUILDINGS - see note below				#N/A	\$0.00	\$0		\$0	\$0
Mill Complex:									
Mill		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
Leech Tanks		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
Primary and Secondary Crusher Pebble Crusher		m2 m2		#N/A #N/A	\$0.00 \$0.00	\$0 \$0	50% 50%	\$0 \$0	\$0 \$0
Conveyors		m2		#N/A #N/A	\$0.00	\$0 \$0	50%	\$0 \$0	\$0 \$0
Assay Lab		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
Accomodation Complex (Inc. Nova Camp)		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
Services Building		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
Site Services Building		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
Dome Warehouse Ore Dome		m2 m2		#N/A #N/A	\$0.00 \$0.00	\$0 \$0	50% 50%	\$0 \$0	\$0 \$0
Power Plant		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
Cat Warehouse		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
Toromont Facilities		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
Fountain Tire		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
White Coverall		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
Batch Plant Environmental Office		m2 m2		#N/A #N/A	\$0.00 \$0.00	\$0 \$0	50% 50%	\$0 \$0	\$0 \$0
Dike Dewatering Shop		m2 m2		#N/A #N/A	\$0.00	\$0 \$0	50%	\$0 \$0	\$0 \$0
Incinerator		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
Talbon Shop		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
Blue Coverall		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
Gate House		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
Fuel Dispensing Station		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
Emulsion Plant		m2		#N/A	\$0.00	\$0	50% 50%	\$0 \$0	\$0 \$0
Bulk Fuel Tank Containers to Landfill		m2 each		#N/A #N/A	\$0.00 \$0.00	\$0 \$0	50%	\$0 \$0	\$0 \$0
Other		Cacii		#N/A	\$0.00	\$0	30 /0	\$0	\$0
BREAK BASEMENT SLABS				#IN/A	\$0.00	φU		\$0	ŞU
Puncture Concrete Foundations		m2		#N/A	\$0.00	\$0	50%	\$0	\$0
LANDFILL FOR DEMOLITION WASTE									
Place rock cover	Blast rock fill	m3		#N/A	\$0.00	\$0		\$0	\$0
Place soil cover	Soil Cap - Landfill and Septic Field	m3		#N/A	\$0.00	\$0		\$0	\$0
Vegetate		ha		#N/A	\$0.00	\$0		\$0	\$0
GRADE AND CONTOUR PADS									
Accomodation Complex		ha		#N/A	\$0.00	\$0		\$0	\$0
Process Facilities		ha		#N/A	\$0.00	\$0		\$0	\$0
Offices, Repair, Lab, Warehouse		ha		#N/A	\$0.00	\$0		\$0	\$0
Storage Facilites		ha		#N/A	\$0.00	\$0		\$0	\$0
Water and Wastewater Treatment Facilities		ha		#N/A	\$0.00	\$0		\$0	\$0
U/G Heating Plant		ha		#N/A	\$0.00	\$0		\$0	\$0
Emulsion Plant		ha		#N/A	\$0.00	\$0		\$0	\$0
Warehouse. Shops and Other		ha		#N/A	\$0.00	\$0		\$0	\$0
Place rock cover		m3		#N/A	\$0.00	\$0		\$0	\$0
Vegetate		ha		#N/A	\$0.00	\$0		\$0	\$0
Other		IId		#N/A	\$0.00	\$0		\$0	\$0
PUNCTURE LINED SUMPS				#IN/A	φ0.00	φυ		φυ	φυ
Puncture liner and place soil cover RECLAIM QUARRIEST		m3		#N/A	\$0.00	\$0		\$0	\$0
Drill and blast slopes to 1:1	Slope work removed.	m3		RB3H	\$17.80	\$0	50%	\$0	\$0
Floor drainage work	Floor work only.	m3	2300	SB3L	\$5.10	\$11,730	50%	\$5,865	\$5,865
RECLAIM ROADS Remove culverts		each	20	OPS	\$4,000.00	\$152,000	50%	\$76,000	\$76,000
Remove bridges (clear Span bridges and HA	.DD bridges)	each		OPS	\$4,000.00	\$152,000	50%	\$112,500	\$112,500
Scarify and install water breaks	9/	ha	84	SCFYL	\$4,300.00	\$361,200	50%	\$180,600	\$180,600
Scarify airstriip		ha		#N/A	\$0.00	\$0	50%	\$0	\$0
Scarify laydown areas		ha		#N/A	\$0.00	\$0	50%	\$0	\$0
Vegetate		ha		#N/A	\$0.00	\$0	2070	\$0	\$0
Other		rici		#N/A	\$0.00	\$0		\$0	\$0
SPECIALIZED ITEMS									
					00.00				
Dispose of misc. debris and laydown area re-	fuse			#N/A	\$0.00	\$0		\$0	\$0
Dispose of misc. debris and laydown area re-	fuse			#N/A	Total % of Total	\$749,930		\$0 \$374,965 50%	\$374,965 50%

Note: Unit costs are based on 3m high, single storey building. Scale larger building areas accordingly. E.g. 10m high building multiply area by 3.3 (10/3)

CTIVITY/MATERIAL	Notes	Units	Quantity	Cost Code	Unit Cost	Cost	% Land	Land Cost	Water Cost
IAZARDOUS MATERIALS AUDIT									
lazardous materials audit	ma	andays	1	#N/A	\$0.00	\$0		\$0	9
BUILDING DECONTAMINATION & CONSOLIDATION OF HAZARDOUS MATERIALS		ĺ							
nvironmental technician/coordinator	m	andays		#N/A	\$0.00	\$0		\$0	9
Decontaminate: oil. fuel		andays		#N/A	\$0.00	\$0		\$0	9
Decontaminate maintenance shop		andays	10	OPS	\$1,000.00	\$10,000	50%	\$5,000	\$5,00
Decontaminate power plant		andays	10	OPS	\$1,000.00	\$10,000	50%	\$5,000	
Decontaminate bulk fuel storage		andays	10	OPS	\$1,000.00	\$10,000	50%	\$5,000	\$5.00
Decontaminate ANFO plant		andays		OPS	\$1,000.00	\$3,000	50%		
Decontaminate offices/warehouse/accom Removal of asbestos siding on buildings		andays m2		#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0	. , .
Removal of friable asbestos on equipment		m2		#N/A	\$0.00	\$0		\$0	
Other				#N/A	\$0.00	\$0		\$0	,
HAZARDOUS MATERIALS REMOVAL				,,,,,,	ψ0.00	ų.		•	· ·
Vaste oils	litr	re	0	#N/A	\$0.00	\$0		\$0	5
Vaste fuel	litr		309000		\$0.43	\$132,870	50%	\$66,435	
Dity/Glycol contaminated water	litr		58456		\$0.43	\$25,136	50%		\$12,56
Vaste batteries		ach		OPS	\$3,000.00	\$3,000	50%	\$1,500	\$1.50
ussay & environmental lab reagents	kg		10000		\$2.50	\$25,000	50%	\$12,500	
fill and Water Treatment Reagents	kg		285614		\$2.50	\$714,035	50%	\$357,018	
Machine shop paints, solvents, filters etc	-	ech		OPS	\$20.000.00	\$20,000	50%	\$10.000	
Slycol			16170		\$2.50	\$40,425	50%	\$20,213	+ ,
Process reagents	kg kg		10170	#N/A	\$0.00	\$40,425	30%	\$20,213	
luclear sources		low		#N/A	\$0.00	\$0		\$0	
Other hazardous materials		low		#N/A	\$0.00	\$0		\$0	
IAZARDOUS MATERIALS	all	iow		#IN/A	\$0.00	φυ		φυ	•
ransportation to disposal facility	all	low		#N/A	\$0.00	\$0		\$0	
Parisportation to disposal facility Disposal fees		low		#N/A	\$0.00	\$0 \$0		\$0	
Other	all	iow		#N/A	\$0.00	\$0		\$0	
CONTAMINATED SOILS				#N/A	\$0.00	\$0		\$0	
Contaminated Soils Contam. soil investigation - Phase 1	00	ach	1	CS1L	\$7,500.00	\$7,500	50%	\$3,750	\$3,7
Contam. soil investigation - Phase 2		ach		CS2L	\$50,000.00	\$50,000	50%	,	\$25,00
CONTAMINATED SOIL REMOVAL	Ca	acii		COZL	\$50,000.00	\$30,000	30 /0	Ψ20,000	φ20,00
excavate and transport to onsite facility	m:	3		#N/A	\$0.00	\$0		\$0	
Manage hydrocarbon remediation at facility	m:		2745		\$47.00	\$129.015	50%		
Reagents/stabilizing agent	m:		2143	#N/A	\$0.00	\$129,013	50%	\$0	, .
xeayarte and transport to offsite facility	m:		137		\$1.000.00	\$137.000	50%	\$68.500	
Contour decontaminated area	m;		137	#N/A	\$0.00	\$137,000	30 /0	\$0	****
CONTAMINATED SOIL VERY LOW PERMEABILITY COVER	1114	3		#11//	\$0.00	ΨΟ		ΨΟ	,
Supply geomembrame, HDPE, ES3, GCL	mi	2		#N/A	\$0.00	\$0		\$0	
Ipper and lower bedding layers	m. m:			#N/A #N/A	\$0.00	\$0 \$0		\$0 \$0	
	mi			#N/A	\$0.00	\$0		\$0 \$0	
nstall geomembrane, HDPE, ES3, GCL Frosion protection layer	m. m:			#N/A #N/A	\$0.00	\$0 \$0		\$0	
						\$0 \$0		\$0	
/egetate	m:			#N/A	\$0.00			\$0 \$0	
nstall infiltration/seepage instrumentation	all	low		#N/A	\$0.00	\$0			
OTHER				#N/A	\$0.00	\$0		\$0	
VIDEN				#N/A	\$0.00	\$0		\$0	
				1111111	Total	\$1,316,981		\$658,491	\$658.49

1 Capital Expenditures and Short Term Water Treatment identified in 'Instructions' worksheet

CTIVITY/MATERIAL	Notes	Units	Quantity	Cost Code	Unit Cost	
LOOD PITS	\$100,000 to repurpose existing portage pump system, additional \$100,000					
epurpose/Install dewatering pumps and piping for pit flooding	to repurpose pumps for Vault line	Allow	2	OPS	\$100,000.00	\$200
ault pipeline supply (Large Dia.)	twin 8 km pipeline, high supply cost	m	16000	PLSH	\$143.00	\$2,288
ault pipeline install	twin 8 km pipeline	m	16000	PLIL	\$50.00	\$800
umped pit flooding water (Third portage Lake and Reclaim Po	Updated as per 2023 Water Management Plan	m3	23,333,333		\$0.02	\$466
umped pit flooding water (Third portage Lake) - Goose Pit	Updated as per 2023 Water Management Plan	m3	2,000,000		\$0.02	\$40
umped pit flooding water (Wally Lake) - Vault Pit	Updated as per 2023 Water Management Plan	m3	23,382,216	OPS	\$0.02	\$467
ump maintenance and operation (5 yrs)						
Maintain pumps (2 skilled labourer x 12hr days, 4months/y		manhours		LAB-SH	\$49.60	\$738
Annual Pump Servicing (2 x Manufacturer Consultant x 7d		manhours		OPS	\$120.00	\$100
Pump Servicing Travel Allowance (Round Trip Flight/perso	on)	visits		OPS	\$4,000.00	\$40
Camp Accomodations		days	1310	ACCML	\$100.00	\$131
YKE RECONNECTION ay-Goose Dike Reconnection (1-2-3)		m3	94000	CDOL	\$4.60	\$432
ock placement Bay-Goose (1-2-3)		m3	27900		\$7.30	\$203
buth Camp Dike Reconnection		m3	24000		\$4.60	\$110
ock placement South Camp Dike		m3		SB2H	\$7.30	\$69
nannel Vault Pit to North Phaser	removed, no longer needed based on pump and pipe arrangement	m3		SB2L	\$4.60	<b>400</b>
ock placement Channel Vault Pit	removed, no longer needed based on pump and pipe arrangement	m3		SB2H	\$7.30	
ault Pit to Wally Lake Reconnection	Tomorou, no longer needed bacod on pamp and pipe arrangement	m3	27000		\$4.60	\$124
ock Placement Vault Pit Reconnection		m3	10800		\$7.30	\$78
move fill		m3	10000	#N/A	\$0.00	ψ. ο
ontour water intake area		m3		#N/A	\$0.00	
ABILIZE SEDIMENT PONDS/WATER MANAGEMENT PO	INDS	0				
ace soil cover		m3		#N/A	\$0.00	
ze & spread excavated material		m3		#N/A	\$0.00	
getate spread material		ha		#N/A	\$0.00	
rap in channel base		each		#N/A	\$0.00	
DIRECT RUNOFF/CONSTRUCT DIVERSION DITCHES						
cavate ditches -soil		m3		#N/A	\$0.00	
cavate ditches -rock		m3		#N/A	\$0.00	
abilize side slopes		m3		#N/A	\$0.00	
o rap in channel base		m3		#N/A	\$0.00	
REACH DITCHES (Diversion ditch)		1110		TT 4/73	ψ0.00	
cavate breaches		m3		#N/A	\$0.00	
ckfill/recontour (consider work on 1000m of diversion ditch:	1000m v 4m²)	m3	4000	SB2L	\$4.60	\$18
	1000111 X 4111 )		4000			φ10
tall flow dissipation		m3		#N/A	\$0.00	
getate remainder of ditch		m2		#N/A	\$0.00	
COMISSION FRESH WATER SUPPLY						
each embankment		m		#N/A	\$0.00	
move pump/barge		Allow		OPS	\$3,000.00	\$
emove pipeline		m	1000	PLRL	\$22.00	\$22
ATER CONTROL IN RECLAMATION QUARRY						
stall pumping system		LS		#N/A	\$0.00	
move pumping system		LS		#N/A	\$0.00	
MOVE PIPELINES						
emove pipes	Vault pipeline removal added to total	m	18000	PLRL	\$22.00	\$396
ncrete plug deep pipes		m3		#N/A	\$0.00	
her - diffuser		each	2	OPS	\$3,000.00	\$
ROUNDWATER COLLECTION SYSTEM						
cavate/install sumps		m3		#N/A	\$0.00	
stall pumping wells		m3		#N/A	\$0.00	
stall pumps/pipelines/power supply		LS		#N/A	\$0.00	
DNSTRUCT CONTAMINATED WATER STORAGE POND		20		TT 4/73	ψ0.00	
cavate pond		m3		#N/A	\$0.00	
ze & spread excavated material		m3		#N/A	\$0.00	
getate spread material		ha		#N/A	\$0.00	
dding layer		m3		#N/A	\$0.00	
pply geomembrane		m2		#N/A	\$0.00	
tall geomembrane		m2		#N/A	\$0.00	
osion protection layer		m3		#N/A	\$0.00	
NSTRUCT PASSIVE TREATMENT SYSTEM (e.g. Constr	ucted Wetland)	0			ψ0.00	
nstruct access roads	,	km		#N/A	\$0.00	
		m		#N/A	\$0.00	
tall HDPE piping system from collection pond						
er-cell flow structures		allow		#N/A	\$0.00	
tall liners		m2		#N/A	\$0.00	
tall growth media		m3		#N/A	\$0.00	
etland vegetation		ha		#N/A	\$0.00	
CONSTRUCT TEMPORARY WATER TREATMENT PLANT						
ild treatment plant		LS		#N/A	\$0.00	
ld sludge containment facility		LS		#N/A	\$0.00	
rage, Prep and Reactor Tanks/Silos	vault treatment added, doubled from 2020 cost	Allow		OPS	\$855,000.00	\$3,42
ch. Equip. (Metering Pumps and Air)	vault treatment added, doubled from 2020 cost	Allow		OPS	\$385,000.00	\$1,54
ing	vault treatment added, doubled from 2020 cost	%	30		\$744,000.00	\$74
ectrical	vault treatment added, doubled from 2020 cost	%	15		\$372,000.00	\$372
trumentation and Controls	vault treatment added, doubled from 2020 cost	%	15		\$372,000.00	\$37
uipment Installation Costs	vault treatment added, doubled from 2020 cost	%	35		\$868,000.00	\$86
COMMISION TEMPORARY WATER TREATMENT PLAN						
contaminate and dispose equipment on site	vault treatment added, doubled from 2020 cost	manhours	1080	LAB-USL	\$31.00	\$3
	vault treatment added, doubled from 2020 cost	days	90	ACCML	\$100.00	\$
mp Accomodations						\$13
mp Accomodations molish Structure	vault treatment added, doubled from 2020 cost	m2	3000	BRS1L	\$45.00	
	vault treatment added, doubled from 2020 cost vault treatment added, doubled from 2020 cost	m2 ha		SCFYH	\$45.00 \$6,030.00	\$13
molish Structure						

For cost of long-term/post-closure water treatment see "WATER TREATMENT" Worksheet"

ACTIVITY/MATERIAL	Notes	Units	Quantity	Cost Code	Unit Cost	Cos
OPERATE TEMPORARY WATER TREATMENT PLANT						
Reagent Allowance		allow		OPS	\$500,000.00	\$500,000
Direct Pumping cost	Adjusted based on 2022 Water Management	m3	#######################################	OPS	\$0.07	\$566,47
Skilled Labourer (1 skilled labourers X 12hr/day, 6 Months/year)		manhours		OPER-WTH	\$59.86	\$129,29
Annual Treatment Plant Servicing (2 Consultants x 7days/year)		manhours		OPS	\$120.00	\$20,16
Treatment Plant Servicing Travel Allowance (Round Trip Flight/person)		visits		OPS	\$4,000.00	\$8,00
Camp Accomodations		days	180	ACCML	\$100.00	\$18,00
ADDITION OF REAGENTS						
H2O2		kg		#N/A	\$0.00	\$
lime		kg		#N/A	\$0.00	\$
ferric sulphate		kg		#N/A	\$0.00	\$
ferrous sulphate		kg		#N/A	\$0.00	\$
flocculents		kg		#N/A	\$0.00	\$
Other				#N/A	\$0.00	\$
LABOUR AND SUPPLIES						
Annual fuel		litres		#N/A	\$0.00	\$
Annual power		kW-h		#N/A	\$0.00	\$
Electrician/mechanic to maintain treatment plant		allow		#N/A	\$0.00	\$
Equipment maintenance and parts		allow		#N/A	\$0.00	\$
Misc. supplies, hoses, tools		allow		#N/A	\$0.00	\$
Communications		allow		#N/A	\$0.00	\$
Other				#N/A	\$0.00	\$
WATER SAMPLING AND ANALYSES						
Sampling equipment		allow		#N/A	\$0.00	\$
Analyses		allow		#N/A	\$0.00	\$
Shipping to laboratory		allow		#N/A	\$0.00	S
Reporting		allow		#N/A	\$0.00	S
Other				#N/A	\$0.00	S
SITE ACCESS				#14/F3	ψ0.00	
Road maintenance (incl. snow removal)		allow		#N/A	\$0.00	9
Winter road tariff		allow		#N/A	\$0.00	3
Truck rental		allow		#N/A	\$0.00	9
		allow		#N/A	\$0.00	9
Air support		allow		#N/A	\$0.00	*
			A	nnual water tr	eatment costs	\$1,241,92
Number of years of water treatment		years	1			Ţ., <u>_</u> 11,02
·············		,oa.o			Total	\$1,241.9

## 1 Interim Care and Maintenance

<u> </u>			Cost			
ACTIVITY/MATERIAL Notes	Units	Quantity	Code		Unit Cost	Cost
INTERIM CARE & MAINTENA	NCE					
on-site caretaker	manmonths		#N/A		0	\$0
extra personnel	manmonths		#N/A		0	\$0
-electrician	manmonths		#N/A		0	\$0
-mechanic	manmonths		#N/A		0	\$0
annual fuel	litre		#N/A		0	\$0
misc. supplies	allow		#N/A		0	\$0
pick-up truck	each		#N/A		0	\$0
small dozer	allow		#N/A		0	\$0
small excavator	allow		#N/A		0	\$0
snow machine	allow		#N/A		0	\$0
communications	allow		#N/A		0	\$0
SNP/AEMP water sampling &	r each		#N/A		0	\$0
geotechnical assessment	each		#N/A		0	\$0
interim water treatment			#N/A			\$0
Maintenance, Surveillance, Mo	nitoring and ir	spection -	#N/A			\$282,600
other	each		#N/A		0	\$0
				Annual	Interim C&M Cost	\$282,600
Number of years of ICM	years	3			Total	\$847,800

ACTIVITY/MATERIAL		Quanti Cost	11-2-5	_
ACTIVITY/MATERIAL	s Units	ty Code	Unit Cost	Co
MONITORING & INSPECTIONS - ACTIVE CLOSURE (2026 to 2034)	each	#N/A	\$0.00	\$
######################################	each	1 OPS	############	\$100,00
- Post-closure	each	#N/A	\$0.00	\$100,00
Annual geotechnical inspection	each	#N/A	\$0.00	9
- Active closure (1 eng, 7 days, 150\$/h, + report at 5000\$, 2500\$ of transport, 700\$ of accommodation)	each	1 OPS	\$20,800.00	\$20,80
- Post-closure	each	#N/A	\$0.00	9
Groundwater monitoring	each	1 OPS	\$10,000.00	\$10,00
Survey inspection	each	#N/A	\$0.00	9
Regulatory costs*	each	1 OPS	\$15,500.00	\$15,50
Site water monitoring	each	#N/A	\$0.00	\$
- Active closure	each	1 OPS	\$73,100.00	\$73,10
- Post-closure	each	#N/A	\$0.00	
Air Quality Monitoring Program (AQMP)	each	#N/A	\$0.00	5
Vildlife Effects Monitoring Program (WEMP)	each	#N/A	\$0.00	5
egetation Monitoring	each	#N/A	\$0.00	\$
Other		#N/A	\$0.00	;
COVER MAINTENANCE - ACTIVE CLOSURE (2026 to 2034)				
Repair erosion - infill gullies	allow	#N/A	\$0.00	5
Repair erosion - upgrade diversion ditches	allow	#N/A	\$0.00	5
Remove problem vegetation	allow	#N/A	\$0.00	5
Repair animal damage	allow	#N/A	\$0.00	\$
Repair/upgrade access controls	allow	#N/A	\$0.00	5
Other  Other  ACTIVE CLOSURE (2026 to 2024)		#N/A	\$0.00	:
SPILLWAY MAINTENANCE - ACTIVE CLOSURE (2026 to 2034)	?	481/4	¢0.00	
Repair erosion Dear spillway	m3 each	#N/A #N/A	\$0.00 \$0.00	:
CWTS MAINTENANCE - ACTIVE CLOSURE (2026 to 2034)	each	#IN/A	φυ.υυ	
Maintain flow, restore vegetation	allow	#N/A	\$0.00	5
MAINTENANCE AND SURVEILLANCE - ACTIVE CLOSURE (2026 to 2034)	anow	,,,,,,,	ψ0.00	
Site care-taker	manhours	480 OPERH	\$65.00	\$31,20
Site Vehicle and equipment	allow	1 OPS	\$20,000.00	\$20,0
Accommodations	mandays	20 ACCML	\$100.00	\$2,0
Site Maintenance	allow	1 OPS	\$10,000.00	\$10,0
Subtotal, Annual active-closure costs				\$282,6
Discount rate for calculation of net present value of active-closure cost, %		3.00%		
Number of years of active-closure activity		9	years	***
Present Value of payment stream (at Year 2024) - Active closure (2026 to 2034)				\$2,200,3
MONITORING & INSPECTIONS - POST CLOSURE (2035 to 2045)				
Monitoring programs (Meadowbank and AWAR)	each	#N/A	\$0.00	
- Active closure	each	#N/A	\$0.00	
- Post-closure	each	0.5 OPS	#######################################	\$50,0
Annual geotechnical inspection	each	#N/A	\$0.00	***,*
- Active closure	each	#N/A	\$0.00	
- Post-closure (1 eng, 7 days, 150\$/h, + report at 5000\$, 2500\$ of transport, 700\$ of accommodation)	each	1 OPS	\$20,800.00	\$20,8
Groundwater monitoring	each	1 OPS	\$10,000.00	\$10,0
Survey inspection	each	#N/A	\$0.00	
Regulatory costs*	each	1 OPS	\$15,500.00	\$15,5
Site water monitoring	each	#N/A	\$0.00	
- Active closure	each	#N/A	\$0.00	
- Post-closure	each	1 OPS	\$49,432.00	\$49,4
Air Quality Monitoring Program (AQMP)	each	#N/A	\$0.00	
Vildlife Effects Monitoring Program (WEMP)	each	#N/A	\$0.00	
/egetation Monitoring	each	#N/A	\$0.00	
Other Cook of		#N/A	\$0.00	
COVER MAINTENANCE - POST CLOSURE (2035 to 2045)		//51/5	***	
Repair erosion - infill gullies	allow	#N/A	\$0.00	
Repair erosion - upgrade diversion ditches	allow allow	#N/A #N/A	\$0.00	
Remove problem vegetation Repair animal damage	allow	#N/A #N/A	\$0.00 \$0.00	
Repair/upgrade access controls	allow	#N/A	\$0.00	
Other	u	#N/A	\$0.00	
SPILLWAY MAINTENANCE - POST CLOSURE (2035 to 2045)		,,,,,,,	<b>\$</b> 0.00	
Repair erosion	m3	#N/A	\$0.00	
Clear spillway	each	#N/A	\$0.00	
CWTS MAINTENANCE - POST CLOSURE (2035 to 2045)				
Maintain flow, restore vegetation	allow	#N/A	\$0.00	
MAINTENANCE AND SURVEILLANCE - POST CLOSURE (2035 to 2045)				
Site care-taker	manhours	480 OPERH	\$65.00	\$31,2
ite Vehicle and equipment	allow	1 OPS	\$20,000.00	\$20,0
Accommodations	mandays	20 ACCML	\$100.00	\$2,0
Site Maintenance	allow	1 OPS	\$10,000.00	\$10,0
Subtotal, Annual post-closure costs				\$208,9
Discount rate for calculation of net present value of post-closure cost, %		3.00%		
lumber of years of post-closure activity		11	years	¢4 000
Present Value of payment stream (at Year 2024) - Post closure (2035 to 2045)				\$1,933,
OOST OLOSLIDE WATER TREATMENT**				
POST-CLOSURE WATER TREATMENT**  Annual water treatment cost, from "Water Treatment"				¢1 041 0
Subtotal, Annual post-closure costs				\$1,241,9 \$1,241,9
		3.00%	4	ψ1,241,8
Discount rate for calculation of net present value of post-closure cost, %				
			years	

 $<sup>{}^\</sup>star \text{Regulatory costs}$  - annual reporting, management plans, progress reports etc.

## <sup>1</sup> Mobilization/Demobilization:

CTIVITY/MATERIAL	Note s	Units	Quanti ty	Cost Code	Unit Cost	Co
OBILIZE HEAVY EQUIPMENT			-,			
arge to/from Baker Lake		each	2	OPS	500000	\$1,000,00
xcavators	5	km	550	mherh	10.25	\$5,63
ump trucks	3	km	330	mherh	10.25	\$3,38
ozers	3	km	330	mherh	10.25	\$3,38
emolition shears	3	km	330	mherh	10.25	\$3,38
rane	1	km	110	mherh	10.25	\$1,1
pader	2	km	220	mherh	10.25	\$2,2
ompactor	1	km	110	mherh	10.25	\$1,1
avator equipment's	3	km	330	mherh	10.25	\$3,3
her	4	km	440	mherh	10.25	\$4,5
ght duty vehicles	4	km	440	mherh	10.25	\$4,5
OBILIZE MISC. EQUIPMENT						
ump shipping		each		#N/A	0	
ipe shipping		m		#N/A	0	
inor tools and equipment		allow		#N/A	0	
ruck tires		allow		#N/A	0	
ther	1 lot	each	1	OPS	50000	\$50,0
OBILIZE CAMP						
eclamation activities		allow		#N/A	0	
ong term reclamation activities (eg pump flooding)		allow		#N/A	0	
OBILIZE AND HOUSE WORKERS						
aintain Camp Accommodations (50 workers, 180 per year, 3 years)		days	27000	accml	100	\$2,700,0
eclamation activities - travel time (50 workers, 4 trips per year, 6h per trip)		hour	1200	lab-usl	31	\$37,2
eclamation activities - transport cost (50 workers, 4 trips per year, 3 years)		each	600	#N/A	2500	\$1,500,0
		each	600	#N/A	0	\$1,000,0
ong term reclamation activities (eg pump flooding) - transport					0	
ong term reclamation activities (eg pump flooding) - travel time		each		#N/A	0	
onitoring Airfare		each		#N/A	0	
VORKER ACCOMODATIONS				//51/6	•	
eclamation activities		manmonths	_	#N/A	0	
ong term reclamation activities (eg pump flooding)		each	0		0	
ong term reclamation activities (eg pump flooding)		manhours	0	#N/A	0	
eclamation activities (placement of aggregate cap - 95 days crew of ten)		manmonths		accmh	5425	\$162,7
eclamation activities - travel time (10 workers, 3 trips per year, 6h per trip)		hour		lab-usl	31	\$5,5
eclamation activities - transport cost (10 workers, 3 trips per year) OBILIZE FUEL		each	30	#N/A	2500	\$75,0
uel freight - reclamation activities		litre		#N/A	0	
uel freight - long term reclamation activities		litre		#N/A	0	
uel freight accomodations		litre		#N/A	0	
INTER ROAD						
onstruction and operation		km		#N/A	0	
mited winter use		km		#N/A	0	
finter road tarriff		km		#N/A	0	
EMOBILIZE HEAVY EQUIPMENT						
xcavators	4	km	440	MHERH	10.25	\$4,5
ump trucks	6	km		MHERH	10.25	\$6.7
ozers	3	km		MHERH	10.25	\$3,3
emolition shears	2	km		MHERH	10.25	\$2,2
rane	1	km		MHERH	10.25	\$1,1
pader	2	km		MHERH	10.25	\$2,2
	1	km		MHERH	10.25	
ompactor ght duty vehicles	4	km km		MHERH	10.25	\$1,1
gni duty venicies ther	4	Km	440	MHEKH	10.25	\$4,5
EMOBILIZE CAMP						
		allow		#N/A	0	
EMOBILIZE WORKERS						
ew travel time		mandays		#N/A	0	
ew transportation		each		#N/A	0	
INTER ROAD						
onstruction and operation		km		#N/A	0	
		km		#N/A	0	
mited winter use		KIII		#1N//\	U	

## Unit Cost Table (for refining unit costs see "Estimator" worksheet)

Unit Cost Table (for r	_				-	COMMENTS
ITEM Detail	COST COD	E UNIIS	LOW\$	HIGH \$	SPECIFIED \$	COMMENTS
Accommodation	ACCM	manday	100.00	175.00		
Buildings - Decontamina Asbestos	BDA	m2	25.60	51.20		Low: removal of asbestos siding & flooring; High: removal of insulated pipes, friable as
Buildings - Remove		IIIZ				Unit costs are based on 3m high, single storey building. Scale areas accordingly.
Wood Concrete	BRW BRC	m2 m2	27.50 40.00	41.00 65.00	6.00	Specified: puncture concrete foundation slabs
Steel - teardown	BRS1	m2	45.00	65.00	0.00	eposition. particular contents roundation stable
Steel - for salvage	BRS2	m2	67.00	100.00		
Concrete work Small pour	CSF	m3	426.50	639.75		Low: YK; High=1.5xLow
Large pour	CLF	m3	353.50	530.25	2130.00	Specified: concrete crown pillar
Contaminated Soils ESA Phase 1	CS1	each	7500.00	0.00		Low: small, "clean" site
ESA Phase 1	CS2	each	50000.00	0.00		Low: small, "clean" site
Remediate on site <b>Dozing</b>	CSR	m3	47.00	146.00		
doze rock piles	DR	m3	1.05	2.40		Low cost: doze crest off dump
doze overburden/soil piles	DS	m2	0.95	3.80		High cost: push up to 300 m
Excavate Rock; Low Spe		m3	0.95	3.80		night cost. push up to 300 m
drill/blast/load/short						
haul drill/blast/load/long	RB1	m3	11.40	17.05		Low: quarry operations for bulk fill
haul	RB2	m3	12.05	17.80		
RB1 + spread and compact	RB3	m3	12.05	17.80		
RB2 + spread and						
compact Specified activity	RB4 RBS	m3 m3	12.50 0.00	30.75 0		
Excavate Rock; High Spe						(e.g. ditch/spillway excavation)
drill/blast/load/short haul	RC1	m3	12.05	17.80		Low: foundation excavation;High:spillway excavation
drill/blast/load/long	RCT	m3	12.05	17.80		Low. loundation excavation, night.spillway excavation
haul	RC2	m3	12.70	18.40		
RC1 + spread and compact	RC3	m3	12.70	18.40		e,g, cover construction
RC2 + spread and compact	RC4	m3	12.50	19.20		e,g, cover construction
Specified activity	RCS	m3	13.50 0.00	0.00	175.00	Specified-drift excavation
Excavate Rip Rap						
drill/blast/load/short haul/place	RR1	m3	13.50	17.75		High: quarry & place rip rap in channel
drill/blast/load/long						
haul/place source is waste	RR2	m3	14.20	20.65		
dump/short haul	RR3	m3	7.00	0.00		cost includes sorting
source is waste dump/long haul	RR4	m3	7.60	0.00		
Specified activity	RRS	m3	0.00	0		
clear & grub			0.40			
excavate/load/short	SBC	m2	3.40	5.00		
haul excavate/load/long	SB1	m3	4.30	5.90		
haul	SB2	m3	4.60	7.30		
SB1 + spread and			5.40			Lawrence and the control of the control of
compact SB2 + spread and	SB3	m3	5.10	8.90		Low: non-engineered; High: engineered
compact	SB4	m3	5.50	11.00		Low: non-engineered; High: engineered
Specified activity Tailings	SBS SBT	m3 m3	3.20 1.35	6.30 3.70	15.50	Low: rehandle waste rock dump by dozing; High: rehandle waste rock by hauling High: contour surface - wet or frozen; Specified: haul/place wet infill
Excavate Soil, High Spec						
excavate/load/short haul	901	m2	6 90	0.30		
excavate/load/long	SC1	m3	6.80	9.30		
haul SC1 + spread and	SC2	m3	7.10	11.75		
compact	SC3	m3	8.90	14.20		Low: non-engineered; High: engineered
SC2 + spread and compact	SC4	m3	9.30	23.20		Low: non-engineered; High: engineered (e.g. complex covers, low volume dam construction)
Specified activity	SCS	m3	0.00	0.00	18.80	Backfill adit with waste rock
Fence						
E. dandelinger	FNC	m	13.55	203.00		
Fuel and Electricity Fuel cost - gas	FCG	litre	1.05	1.40		
Fuel cost - diesel	FCD	litre	0.99	1.39		
Fuel mobilization Electricity	FCM FCE	litre kW-h	0.22 0.17	0.42 0.19	0.49	High: winter road usage Low and High: Yellowknife; Specified: diesel generator
Geo-Synthetics			0.17	0.10	0.45	J,
geotextile	GST	m2	3.44	0.00		Supply and install
geogrid liner, HDPE	GSG GSHDPE	m2 m2	5.75 7.95			Supply and install; large quantity
liner, ES3	GSES3	m2	20.20			FOB Yellowknife
geosynthetic installation	GSI	m2	3.16	14.00		Low: geotextile; High:ES3 or HDPE
bentonite soil						
amendment Grouting (/m3 of rock gro	GSBA outed)	tonne	308.30	348.50		FOB Edmonton, add shipping & mixing
, or rook giv	grout	m3	236.55	286.75		High: cement, FOB Yellowknife

Site manager	•		e "Estim		KSIIEEL)	
	sman	\$/hr	125.00	152.00		
Supervisor Registered engineer	super eng	\$/hr \$/hr	52.00 95.00	91.84 220.00		
Environmental coordinator		\$/hr	74.16	130.00		
Environmental technologis	envtech	\$/hr	36.00	0.00		
Electrician Journeyman - various	elec journey	\$/hr \$/hr	74.00 44.00	95.00 71.79		
Labour - skilled	lab-s	\$/hr	41.00	49.60		
Labour - unskilled	lab-us	\$/hr	31.00	43.98		
Equipment operator Heavy duty mechanic	oper mech	\$/hr \$/hr	41.00 49.00	65.00 72.85		
Water treatment plant oper	oper-wt	\$/hr	41.00	59.86		
Security / first aid Administrative staff	safety admin	\$/hr \$/hr	36.00 38.00	66.97 57.89		
Administrative starr	aumm	\$/111	36.00	0 0		
Equipment rates include or			0	0		
Loader - 4 cu.yd (3.06m3) Loader - 7 cu.yd (5.35m3)		\$/hr \$/hr	175.00 315.00	0.00		
Excavator - 26.76-30.84 to		\$/hr	190.00	0.00		
Excavator - 68.95+tonnes		\$/hr	420.00	0.00		
Grader Dump truck off hwy 30-50		\$/hr \$/hr	190.00 225.00	0.00		
Dump truck off hwy 55-75	truck-l	\$/hr	300.00	0.00		
dozer, small dozer, large	dozers dozerl	\$/hr \$/hr	205.00 490.00			
smooth drum compactor	comp	\$/nr \$/hr	155.00			
scooptram, 6 yd3 bucket	scoop	\$/hr	170.00	0.00		
flat bed truck with hiab fuel truck	hiab ftruck	\$/hr \$/hr	155.00 150.00			
water truck	wtruck	\$/nr \$/hr		150.00		
Mobilize Heavy Equipment						
Road access	MHER	kmtonne	3.40	10.25		corne rates FAAIIb
Air access Mobilize Camp	MHEA	kmtonne	12.00	0		cargo rate>500lb
Road access	MCR	each	50000.00	0		refurbish existing camp
Mobilize Workers						• .
flight	MW	each	4500.00	9100.00		Low:e.g. 8 passenger; High: Dash 7
Oil Removal	00	lia				Laurusata ail haatay klighy akin offaita
oil removal PCB Removal	OR	litre	0.43	1.20 0.00		Low:waste oil heater; High: ship offsite
Remove from site	PCBR	litre	40.20	46.90		Low: shipping, handling & disposal from Yellowknife
Pipes, small (<6in dia.)	TODIC	iidC	40.20	40.50		
site		m	1.00	24.00		Low: remove/dispose on site; High: remove/re-use
supply install	PSS PSI	m m	6.10 25.00	11.10 0.00		Low:supply; High:supply and ship
Pipes, large (>6in dia.)	roi	111	25.00	0.00		
site	PLR	m	22.00	72.00		Low: remove/dispose on site; High: remove/re-use
supply	PLS	m	129.00	143.00		Low:supply; High:supply and ship
install Power Lines	PLI	m	50.00	0.00		
site	POWR	m	25.50	0.00		
Process Chemicals						
Remove from site	PCR	kg	0.45	2.50		Low: shipping, handling & disposal from Yellowknife
Pumps Pump capital cost	PC	each	195000.00	0.00		
Pump shipping	PS	each	2500.00	0.00		
Pump operating cost Pump maintenance	POC PM	m3 allow	0.12 25000.00	0.00		pump operating costs should be calculated based on pump capacity, fuel costs, etc
Pump sand BackFill	1 141	allow	20000.00	0.00		
•	PBF	m3	85.00	300.00		
Scarify - road/mine site			0	0		
		ha	4300	6030	2150.00	
Shaft, Raise & Portal Closu	ires					
01 0 0 0 1		m2		2132.00		
Shaft & Raises	SR		645.00	2102.00		Low:pre-cast concrete slabs, little site prep. Area=shaft+>1m all around
Shaft & Raises Portals	SR POR	m3	18.80	250.00	1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
					1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed
Portals			18.80	250.00	1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed
Portals	POR	m3 each	18.80 0.00 10000.00 0.00	250.00 0.00 20000.00 0.00	1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed
Portals Site Inspection Report SpillWay - Clear	POR	m3	18.80 0.00 10000.00 0.00 3000.00	250.00 0.00 20000.00 0.00 7000.00	1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed
Portals Site Inspection Report	POR RPT SW	m3 each	18.80 0.00 10000.00 0.00 3000.00	250.00 0.00 20000.00 0.00 7000.00	1200.00	Low.unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals Site Inspection Report SpillWay - Clear Survey/Instrumentation	POR RPT SW SI	m3 each	18.80 0.00 10000.00 0.00 3000.00	250.00 0.00 20000.00 0.00 7000.00	1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed
Portals Site Inspection Report SpillWay - Clear	POR RPT SW SI	m3 each each	18.80 0.00 10000.00 0.00 3000.00 0 1800.00	250.00 0.00 20000.00 0.00 7000.00	1200.00	Low.unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals Site Inspection Report SpillWay - Clear Survey/Instrumentation Treatment Plant - Construc Small (< 1000 m3/d) Large (> 1000 m3/d)	POR RPT SW SI ct TPS TPL	m3 each each lump sum lump sum	18.80 0.00 10000.00 0.00 3000.00 1800.00 9,000,000 15,000,000	250.00 0.00 20000.00 0.00 7000.00 0 3600.00	1200.00	Low.unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals Site Inspection Report SpillWay - Clear Survey/Instrumentation Treatment Plant - Construc Small (< 1000 m3/d) Large (> 1000 m3/d) Constructed Wetland	POR RPT SW SI ct TPS TPL	m3 each each lump sum	18.80 0.00 10000.00 0.00 3000.00 0 1800.00 9,000,000 15,000,000 200,000	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ######## 300,000	1200.00	Low.unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals Site Inspection Report SpillWay - Clear Survey/Instrumentation Treatment Plant - Construc Small (< 1000 m3/d) Large (> 1000 m3/d)	POR RPT SW SI ct TPS TPL CWTS	m3 each each lump sum lump sum	18.80 0.00 10000.00 0.00 3000.00 0 1800.00 9,000,000 15,000,000 200,000	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ######## 300,000	1200.00	Low.unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals Site Inspection Report SpillWay - Clear Survey/Instrumentation Treatment Plant - Construc Small (< 1000 m3/d) Large (> 1000 m3/d) Constructed Wetland Treatment Plant - Operate	POR RPT SW SI ct TPS TPL CWTS	m3 each each lump sum lump sum	18.80 0.00 10000.00 0.00 3000.00 0 1800.00 9,000,000 15,000,000 200,000	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ######## 300,000	1200.00	Low.unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals Site Inspection Report SpillWay - Clear Survey/Instrumentation Treatment Plant - Construc Small (< 1000 m3/d) Large (> 1000 m3/d) Constructed Wetland	POR RPT SW SI ct TPS TPL CWTS TPO	m3 each each lump sum lump sum ha m3	18.80 0.00 10000.00 0.00 3000.00 0 1800.00 9,000,000 15,000,000 200,000	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ######## 300,000	1200.00	Low.unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals  Site Inspection Report  SpillWay - Clear  Survey/Instrumentation  Treatment Plant - Construc  Small (< 1000 m3/d)  Large (> 1000 m3/d)  Constructed Wetland  Treatment Plant - Operate  Treatment Chemicals  ferric sulphate  ferrous sulphate	POR RPT SW SI tt TPS TPL CWTS TPO ferric ferrous	m3 each each lump sum lump sum lump sum	18.80 0.00 10000.00 0.00 3000.00 0 1800.00 9,000,000 15,000,000 0 0.35	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ######## 300,000 0 2.00	1200.00	Low.unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals Site Inspection Report SpillWay - Clear Survey/Instrumentation  Treatment Plant - Construc Small (< 1000 m3/d) Large (> 1000 m3/d) Constructed Wetland  Treatment Plant - Operate  Treatment Chemicals ferric sulphate ferrous sulphate lime	POR RPT SW SI tt TPS TPL CWTS TPO ferric ferrous lime	m3 each each lump sum lump sum ha m3 kg kg kg	18.80 0.00 10000.00 0.00 3000.00 1800.00 9,000,000 15,000,000 200,000 0 0.35 1.19 1.32 0.56	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ######## 300,000	1200.00	Low.unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals  Site Inspection Report  SpillWay - Clear  Survey/Instrumentation  Treatment Plant - Construc  Small (< 1000 m3/d)  Large (> 1000 m3/d)  Constructed Wetland  Treatment Plant - Operate  Treatment Chemicals  ferric sulphate  ferrous sulphate	POR RPT SW SI tt TPS TPL CWTS TPO ferric ferrous	m3 each each lump sum lump sum lump sum	18.80 0.00 10000.00 0.00 3000.00 0 1800.00 9,000,000 15,000,000 0 0.35	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ######## 300,000 0 2.00	1200.00	Low.unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals  Site Inspection Report  SpillWay - Clear  Survey/Instrumentation  Treatment Plant - Construc  Small (< 1000 m3/d)     Large (> 1000 m3/d)     Constructed Wetland  Treatment Plant - Operate  Treatment Chemicals     ferric sulphate     ferrous sulphate     lime     hydrogen peroxide, 35%     Sodium Metabisulfate     Caustic soda, 50%	POR RPT SW SI tt TPS TPL CWTS TPO ferric ferrous lime hperox Nametab	m3 each each lump sum lump sum lump sum kg kg kg kg kg kg	18.80 0.00 10000.00 0.00 3000.00 0 1800.00 9,000,000 15,000,000 0 0.35 1.19 1.32 0.56 6 1.50 1.18	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ######## 300,000 0 2.00	1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals Site Inspection Report  SpillWay - Clear  Survey/Instrumentation  Treatment Plant - Construct Small (< 1000 m3/d) Large (> 1000 m3/d) Constructed Wetland  Treatment Plant - Operate  Treatment Chemicals ferric sulphate lime hydrogen peroxide, 35% Sodium Metabisulfate Caustic soda, 50% Sulfuric acid, 93%	POR RPT SW SI tt TPS TPS TPC CWTS TPO ferric ferrous lime hyperox Nametab caustic sulfuric	m3 each each lump sum lump sum ha m3 kg kg kg kg kg kg	18.80 0.00 10000.00 0.00 3000.00 0 1800.00 15,000,000 0 0.35 1.19 1.32 0.56 1.50 1.74	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ######## 300,000 0 2.00	1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals Site Inspection Report  SpillWay - Clear  Survey/Instrumentation  Treatment Plant - Construct Small (< 1000 m3/d) Large (> 1000 m3/d) Constructed Wetland  Treatment Plant - Operate  Treatment Chemicals ferric sulphate lime hydrogen peroxide, 35% Sodium Metabisulfate Caustic soda, 50% Sulfuric acid, 93% flocculant copper sulphate	POR RPT SW SI st TPS TPC CWTS TPO ferric ferrous lime hyperox Nametab caustic sulfuric flocc copper	m3 each each lump sum lump sum ha m3 kg	18.80 0.00 10000.00 0.00 3000.00 0 1800.00 9.000,000 15,000,000 0 0.35 1.19 1.32 0.56 1.50 1.18 0.74 0.31	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ######## 300,000 0 2.00	1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals Site Inspection Report SpillWay - Clear Survey/Instrumentation  Treatment Plant - Construc Small (< 1000 m3/d) Large (> 1000 m3/d) Constructed Wetland  Treatment Plant - Operate  Treatment Plant - Operate  ferric sulphate ferrous sulphate lime hydrogen peroxide, 35% Sodium Metabisulfate Caustic soda, 50% Suffuric acid, 93% flocculant copper sulphate shipping	POR  RPT  SW  SI  tt  TPS  TPL  CWTS  TPO  ferric  ferrous  lime hperox  Nametab  caustic  sulfuric flocc	m3 each each lump sum lump sum lump sum kg kg kg kg kg kg kg	18.80 0.00 10000.00 0.00 3000.00 0 1800.00 15,000,000 0 0.35 1.19 1.32 0.56 1.50 1.74	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ######## 300,000 0 2.00	1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals  Site Inspection Report  SpillWay - Clear  Survey/Instrumentation  Treatment Plant - Construc  Small (< 1000 m3/d)     Large (> 1000 m3/d)     Constructed Wetland  Treatment Plant - Operate  Treatment Chemicals     ferric sulphate     ferrous sulphate     lime     hydrogen peroxide, 35%     Sodium Metalsiulfate     Caustic soda, 50%     Sulfuric acid, 93%     flocculant     copper sulphate     shipping  Vegetation	POR  RPT  SW  SI  tt  TPS  TPL  CWTS  TPO  ferric  ferrous  lime hperox Nametab  caustic  sulfuric flocc  copper  shipping	m3 each each lump sum lump sum lump sum kg	18.80 0.00 10000.00 0.00 3000.00 1800.00 15,000,000 200,000 0.35 1.19 1.32 0.566 1.50 1.18 0.74 0.31 6.00	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ######### 300,00 0 2.00	1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals Site Inspection Report SpillWay - Clear Survey/Instrumentation  Treatment Plant - Construc Small (< 1000 m3/d) Large (> 1000 m3/d) Constructed Wetland  Treatment Plant - Operate  Treatment Plant - Operate  ferric sulphate ferrous sulphate lime hydrogen peroxide, 35% Sodium Metabisulfate Caustic soda, 50% Suffuric acid, 93% flocculant copper sulphate shipping	POR RPT SW SI st TPS TPC CWTS TPO ferric ferrous lime hyperox Nametab caustic sulfuric flocc copper	m3 each each lump sum lump sum ha m3 kg	18.80 0.00 10000.00 0.00 3000.00 0 1800.00 9.000,000 15,000,000 0 0.35 1.19 1.32 0.56 1.50 1.18 0.74 0.31	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ######## 300,000 0 2.00	1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals Site Inspection Report  SpillWay - Clear  Survey/Instrumentation  Treatment Plant - Construct Small (< 1000 m3/d) Large (> 1000 m3/d) Constructed Wetland  Treatment Plant - Operate  Treatment Chemicals ferric sulphate ferric sulphate lime hydrogen peroxide, 35% Sodium Metabisulfate Caustic soda, 50% Sulfuric acid, 93% flocculant copper sulphate shipping  Vegetation Hydroseed, Flat Hydroseed, Flat Hydroseed, Sloped Veg. blankelverosion	POR RPT SW SI st TPS TPC CWTS TPO ferric ferrous lime hybrox Nametab caustic sulfuric floce cooper shipping VHF VHS	m3 each each lump sum lump sum ha kg	18.80 0.00 10000.00 0.00 3000.00 0 1800.00 9.000,000 15,000,000 0 0.35 1.19 1.32 0.56 1.50 0.18 0.74 0.31 6.00 0.20	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ########## 300,000 0.00	1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals  Site Inspection Report  SpillWay - Clear  Survey/Instrumentation  Treatment Plant - Construc Small (< 1000 m3/d) Large (> 1000 m3/d) Constructed Wetland  Treatment Plant - Operate  Treatment Plant - Operate  Ime hydrogen peroxide, 35% Sodium Metabisulfate Caustic soda, 50% Suffuric acid, 93% flocculant copper sulphate shipping  Vegetation Hydroseed, Flat Hydroseed, Sloped Veg. blanket/erosion mat	POR  RPT  SW  SI  tt  TPS  TPL  CWTS  TPO  ferric  ferrous  lime  hperox  Nametab  caustic  sulfuric  flocc  copper  shipping  VHF  VHS	m3 each each lump sum lump sum lump sum kg	18.80 0.00 10000.00 0.00 3000.00 1800.00 15,000,000 200,000 0.35 1.19 1.32 0.56 6 1.50 1.18 0.74 0.31 6.00 0.20	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 *********************************	1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Portals Site Inspection Report  SpillWay - Clear  Survey/Instrumentation  Treatment Plant - Construct Small (< 1000 m3/d) Large (> 1000 m3/d) Constructed Wetland  Treatment Plant - Operate  Treatment Chemicals ferric sulphate ferric sulphate lime hydrogen peroxide, 35% Sodium Metabisulfate Caustic soda, 50% Sulfuric acid, 93% flocculant copper sulphate shipping  Vegetation Hydroseed, Flat Hydroseed, Flat Hydroseed, Sloped Veg. blankelverosion	POR RPT SW SI st TPS TPC CWTS TPO ferric ferrous lime hybrox Nametab caustic sulfuric floce cooper shipping VHF VHS	m3 each each lump sum lump sum ha kg	18.80 0.00 10000.00 0.00 3000.00 0 1800.00 9.000,000 15,000,000 0 0.35 1.19 1.32 0.56 1.50 0.18 0.74 0.31 6.00 0.20	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ########## 300,000 0.00	1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug  2 person crew
Portals  Site Inspection Report  SpillWay - Clear  Survey/Instrumentation  Treatment Plant - Construc  Small (< 1000 m3/d)     Large (> 1000 m3/d)     Constructed Wetland  Treatment Plant - Operate  Treatment Plant - Operate  Ime     Inferio sulphate     ferrio sulphate     ferrous sulphate     lilme     hydrogen peroxide, 35%     Sodium Metabisulfate     Caustic soda, 50%     Sulfuric acid, 93%     flocculant     cooper sulphate     shipping  Vegetation     Hydroseed, Flat     Hydroseed, Sloped     Veg. blankel/erosion     mat     Tree planting  Wetland species	POR  RPT  SW  SI  tt  TPS  TPL  CWTS  TPO  ferric  ferrous  lime hperox Nametab caustic sulfuric flocc copper shipping  VHF  VHF  VW	m3 each each lump sum lump sum lump sum kg	18.80 0.00 10000.00 0.00 3000.00 1800.00 15,000,000 200,000 0.35 1.19 1.32 0.56 6 1.50 1.18 0.74 0.31 6.00 0.20 4000.00 13000.00 13000.00	250.00 0.00 20000.00 0.00 3600.00  ######### 300.00  0.00 0.00 0.00	1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug  2 person crew
Portals Site Inspection Report SpillWay - Clear Survey/Instrumentation  Treatment Plant - Construct Small (< 1000 m3/d) Large (> 1000 m3/d) Constructed Wetland  Treatment Plant - Operate  Treatment Plant - Operate  Ime hydrogen peroxide, 35% Sodium Metabisulfate Caustic soda, 50% Suffuric acid, 93% flocculant copper sulphate shipping  Vegetation Hydroseed, Flat Hydroseed, Flat Hydroseed, Sloped Veg. blanket/erosion mat Tree planting	POR RPT SW SI st TPS TPS TPC CWTS TPO ferric ferrous lime hyperox Nametab caustic sulfuric floce cooper shipping VHF VHS VB VT VW Reporting	m3 each each lump sum lump sum ha m3 kg	18.80 0.00 10000.00 3000.00 0 1800.00 1800.00 200,000 15,000,000 0 0.35 1.19 1.32 0.56 1.50 0.18 0.74 0.31 6.00 0.20 4000.00 4500.00 13000.00 2600.00 0.00	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ########## 300,000 0.00 0.00 0.00 0.00 0.00 0.00 0		Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug  2 person crew  Specified= /m3, Wetland Growth Media Substrate mixed and installed (sand, bioch)
Portals Site Inspection Report SpillWay - Clear Survey/Instrumentation  Treatment Plant - Construct Small (< 1000 m3/d) Large (> 1000 m3/d) Constructed Wetland  Treatment Plant - Operate  Treatment Plant - Operate  ferric sulphate ferric sulphate ferric sulphate ferric sulphate ferric sulphate caustic soda, 50% Sodium Metabisulfate Caustic soda, 50% Suffuric acid, 93% flocculant copper sulphate shipping  Vegetation Hydroseed, Flat Hydroseed, Sloped Veg, blanket/erosion mat Tree plantling  Wetland species  Water Sampling/Analysis/R	POR  RPT  SW  SI  tt  TPS  TPL  CWTS  TPO  ferric  ferrous  lime hperox Nametab caustic sulfuric flocc copper shipping  VHF  VHF  VW	m3 each each lump sum lump sum lump sum lump sum lump sum lump sum ha kg	18.80 0.00 10000.00 3000.00 0 1800.00 15,000,000 15,000,000 0.35 1.19 1.32 0.56 1.50 1.18 0.74 0.31 6.00 0.20 4000.00 4500.00 13000.00 2800.00 0.00 0.00	250.00 0.00 20000.00 0.00 3600.00 ######## 300.00 0.00 0.00 0.00 0.0		Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug  2 person crew  Specified= /m3, Wetland Growth Media Substrate mixed and installed (sand, bioch)
Portals  Site Inspection Report  SpillWay - Clear  Survey/Instrumentation  Treatment Plant - Construc  Small (< 1000 m3/d)     Large (> 1000 m3/d)     Constructed Wetland  Treatment Plant - Operate  Treatment Plant - Operate  Ime     Inferio sulphate     ferrio sulphate     ferrous sulphate     lilme     hydrogen peroxide, 35%     Sodium Metabisulfate     Caustic soda, 50%     Sulfuric acid, 93%     flocculant     cooper sulphate     shipping  Vegetation     Hydroseed, Flat     Hydroseed, Sloped     Veg. blankel/erosion     mat     Tree planting  Wetland species	POR RPT SW SI st TPS TPS TPC CWTS TPO ferric ferrous lime hyperox Nametab caustic sulfuric floce cooper shipping VHF VHS VB VT VW Reporting	m3 each each lump sum lump sum ha m3 kg	18.80 0.00 10000.00 3000.00 0 1800.00 1800.00 200,000 15,000,000 0 0.35 1.19 1.32 0.56 1.50 0.18 0.74 0.31 6.00 0.20 4000.00 4500.00 13000.00 2600.00 0.00	250.00 0.00 20000.00 0.00 7000.00 0 3600.00 ########## 300,000 0.00 0.00 0.00 0.00 0.00 0.00 0		Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug  2 person crew  Specified= /m3, Wetland Growth Media Substrate mixed and installed (sand, bioch)