	Knigh	t Piesold 201	.5 Estima	ite	Γ		Golder 2017 Estimate Differer						Difference	Comparison Summary
Underground Mine Unit Price Total							Underground Mine Unit Price Total						Underground Min	
Control		<u> </u>	11100		Total		l Access	J					Control Access	
	Backfill Adits	1,000	\$	3.49	\$ 3,494		Backfill Adits	940	\$	3.50	\$	3,290	204	
	Cap Shafts	5		,656	\$ 428,282		Cap Shafts	5	\$	85,656	\$	428,280	2	
	Backfill Open Stopes	2,250	\$	3.49	\$ 7,863		Backfill Open Stopes	2,250	\$	3.50	\$	7,875	(12)	
	Crown Pillar Study	1	\$ 25	,000	\$ 25,000		Crown Pillar Study	1	\$	25,000	\$	25,000	-	
Remove	Hazardous Waste					Remov	e Hazardous Waste						Remove Hazardou	is Waste
Total					\$ 464,639	Total					\$	464,445	194	Essentially the same.
Tailings Imi	noundment	Unit	Price		Total	Tailings Ir	mnoundment	Unit		Price	ı	Total	Tailings Impoundr	nent
. 0.	Embankment	Offic	Price		TOTAL	Stabiliz	e Embankment	Offic		rice		TOTAL	Tallings Impounds	
1									$\overline{}$					KP assumed upstream faces of dams would be flattened to 2.5:1 using rip
	Rip Rap	90,000	\$ 1	5.20	\$ 1,368,000		Rip Rap	15,000	Ś	15.20	\$	228,000	1,140,000	rap. This is unneccessary. Golder assumed rip rap in the wave zone only
			l '		, , , , , , , , , , , , , , , , , , , ,			,,,,,	l '	- 1	· ·	.,	, ,,,,,,	with reduced water levels. Dam M repairs were completed in 2016.
Cover Ta	ilings					Cover	Tailings						Cover Tailings	
	- V													Unit costs are actual costs based on the work being done in 2016-2017. KP
	Soil Cover	241,328	\$	9.30	\$ 2,244,350		Soil Cover	209,828	\$	7.02	\$	1,472,993	771,358	area is from 2012. Area has been reduced to reflect cover work completed
										ŀ				by the end of 2017.
													-	
	excavate and dispose	1	ć 100	000	\$ 100,000		excavate and dispose		Ś	100.000	Ś	100.000		
ŀ	tailings cell 4	1	\$ 100	,000	\$ 100,000		tailings cell 4	1	\$	100,000	\$	100,000	-	
	Other comments	20.000	ć	9.30	\$ 186,000								100,000	KP report states that this is an arbitrary allowance. There is no evidence the
	Other - cover repair	20,000	\$	9.30	\$ 186,000								186,000	this is necessary.
Remove	Tailings Discharge					Remov	e Tailings Discharge						Remove Tailings D	
	Pipe	8,500	\$ 2	2.00	\$ 187,000		Pipe	8,500	\$	18.39	\$	156,315	30,685	KP used a RECAIM rate. Lower unit cost was provider by a contractor.
Upgrade	Spillway					Upgrad	de Spillway						Upgrade Spillway	
	Excavate Channel	30,600	Ś	9.30	\$ 284,580		Excavate Channel	12,350	Ś	4.30	Ś	53,105	231,475	Golder assumed spillway excavation through Dam 1A and J (4m bottom, 4
	Excavate Chamilei	30,000	Ÿ	5.50	\$ 204,500		Excavate Chamilei	12,550	ľ	4.50	Ÿ	33,103	231,473	side slope up to elevation 480m and 481m respectively).
														Spillways through Dam 1A and J. 2m flow depth 0.5 m thick rip rap. Rip rap
	Rip Rap spillway	20,000	\$ 1	5.20	\$ 304,000		Rip Rap spillway	936	\$	7.00	\$	6,552	297,448	to be reclaimed from dam faces above water level. KP What is basis of KP
									<u>L</u>					lump sum?
	Geotextile	7,000	\$	3.44	\$ 24,080		Geotextile	2,800	\$	3.44	\$	9,632	14,448	Based on spillway size
Specializ	ed Items					Specia	lized Items						Specialized Items	
	install permanent						install permanent			,				
	instrumentation,	1	\$ 60	,000	\$ 60,000		instrumentation, supply &	1	\$	30,000	\$	30,000	30,000	50% added in next row, cost for drilling
	supply & technician						technician							
							install permanent	1	Ś	30,000	Ś	30,000	(30,000)	
							instrumentation, drilling	*		30,000	,	30,000	` ' '	
	nt Supernatant					Treatn	nent Supernatant		_				Treatment Superr	atant
	Equipment		l .				Equipment maintenance			ŀ				
	maintenance and	1	\$ 100	,000	\$ 100,000		and parts			,			100,000	KP adopted an earlier allowance by INAC. Note that Golder allowed 277,9
	parts						i i		Щ					under "Water Management"
Annual t	reatment Costs					Annua	treatment Costs		4				Annual Treatment	Costs
T-4-1					4 4 050 045	Total			₩			2 200 507	2 774 4 1 1	
Total					\$ 4,858,010	Total			<u> </u>		\$	2,086,597	2,771,414	
Rock Pile		Unit	Price		Total	Rock Pile		Unit		Price		Total	Rock Pile	
Cover Ro	ock Pile						Rock Pile						Cover Rock Pile	
							Soil Cover, excavate, haul,							
							spread, compact	364,800	\$	7.02	\$	2,560,896	(2,560,896)	Cover of waste rock on place with 1m of borrow material (36.48 ha)
Relocate	Dumps					Reloca	te Dumps						Relocate Dumps	
	Load, Haul, Dump and						Load, Haul, Dump and Doze							
	Doze - m3	400,000	\$	7.00	\$ 2,800,000		m3	45,600	\$	4.72	\$	215,232	2,584,768	Approximate volume to be removed and disposed underground
							Contour Reclaimed Area	364,800	\$	1.05	\$	383,040	(383,040)	
Other						Other		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ė				Other	
	Waste Rock Survey	1	\$ 100	,000	\$ 100,000	21.701	Waste Rock Survey						100,000	
	Soil/Waste Rock Risk						Soil/Waste Rock Risk		†					
	Assessment	1	l		\$ 250,000		Assessment			,			250,000	These items were completed as part of the 2017 ESA update.
	Options Assessment	1	\$ 50	,000	\$ 50,000		Options Assessment		 				50,000	
1 1											+			+
Total					\$ 3,200,000	Total					\$	3,159,168	40,832	

uipme	nt and Buildings					
	ng Decontamination and H	laz Waste Remov	al			
	Decontaminate - oil,	1	\$	218,572	\$	218,572
	fuel, glycol systems		L		L	
	Decontaminate					
	offices/warehouse/				\$	-
	accommodations					
Remo	ve Buildings					
	Sleepers and Offices	7,329	\$	128.00	\$	938,112
	Hoist Room and Travel					
	Ways	463	\$	128.00	\$	59,264
	Shaft House	1,253	\$	128.00	\$	160,384
	Warehouse	4,671	\$	128.00	\$	597,888
	Mill	2,864	\$	128.00	\$	366,592
					\$	
	Powerhouse	1,645	\$	128.00		210,560
	Headframe	413	\$	128.00	\$	52,864
	Airlock Building and	366	\$	128.00	\$	46,848
	Freshair Intake					
	Paste fill Plant	316	\$	128.00	\$	40,448
	Cold Storage 2	1,855	\$	128.00	\$	237,440
	buildings	1,855	Ļ	128.00	۶	237,440
	Surface Mobile Shop	1,008	\$	128.00	\$	129,024
	Carpenter Shop	482	\$	128.00	\$	61,696
	As Treatment Plant					
	Building	177	\$	128.00	\$	22,656
	Pumphouse	74	\$	128.00	\$	9,472
		412	\$	128.00	\$	52,736
	Explosives Storage	31	_		_	
	Fire house	31	\$	128.00	\$	3,968
	Emergency Power	117	\$	128.00	\$	14,976
	House		Ŀ			
	Weather Station and	566	\$	128.00	\$	72,448
	Storage Buildings					
	Shop	379	\$	128.00	\$	48,512
	Batch Plant	118	\$	128.00	\$	15,104
	ATV Duildie =	172	\$	128.00	\$	22.010
	ATV Building	1/2	Ş	128.00	Þ	22,016
	Fuel Tanks		\$	65.00	ė	500.050
	Piping		\$	24.00	\$	599,850
	Freshwater Intake		Ĺ			
	Foundation Slabs -					
	leave in please and					
	cover - hrs					
	50VCI 1113		\vdash		H	
			-			
l and£	ill for Demolition Waste					
Ldridti						
	Isolate Buildings		۰		,	
	(waste, water, glycol,	24,562	\$	12.63	\$	310,239
	sewer)		L		Ļ	
	Bone Yard Clean Up	1	\$	350,000	\$	350,000
	Operation of Landfill	1	\$	450,000	\$	450,000
Grade	and Contour					
			Ľ		L	
	Grade/Contour Entire	220,000	ć	4.67	ć	4 020 572
	Mine Site Area	230,000	\$	4.47	\$	1,028,573
	Concrete Slab					
	Removal	25,000	\$	7.28	\$	181,955
Rocla:	m Roads					
necidi	iii noaus					
	C		-		\vdash	
	Scarify and install	12	\$	6,272.39	\$	75,269
	water breaks		Ė		<u> </u>	
	Grade airstrip	1	\$	20,000.00	Ś	20,000
	or and an att ib	1	ľ	_0,000.00	`	20,000
	Other - main water	1	ć	5 000	¢	E 000
	Other - main water supply line	1	\$	5,000	\$	5,000

Building Decontamination and Haz Waste Removal	quipment and Buildings					
Byvol systems Decontaminate offices/warehouse/ accommodations		aste Removal				
Byvol systems Decontaminate offices/warehouse/ accommodations	Decontaminate - oil fuel					
Offices/warehouse/ accommodations Remove Buildings						
Remove Buildings						
Sleepers and Offices						
Sieepers and Offices						
Hoist Room and Travel Ways Shaft House 1,253 \$ 128.00 \$ 160.384 Mays Mill 2,864 \$ 128.00 \$ 366,592 Powerhouse 1,645 \$ 128.00 \$ 366,592 Powerhouse 1,645 \$ 128.00 \$ 210,506 May Mays Ma			_			
Ways Shaft House 1,253 \$ 128.00 \$ 160,384 Marehouse 4,671 \$ 128.00 \$ 597,888 Mill 2,864 \$ 128.00 \$ 366,592 Powerhouse 1,645 \$ 128.00 \$ 366,592 Powerhouse 1,645 \$ 128.00 \$ 366,592 Powerhouse 1,645 \$ 128.00 \$ 52,864 Airlock Building and Freshair Intake 366 \$ 128.00 \$ 46,848	Sleepers and Offices	7,329	\$	45.00	\$	329,805
Shaft House		463	\$	128.00	\$	59,264
Mill	Shaft House	1,253	\$	128.00	\$	160,384
Powerhouse	Warehouse	4,671		128.00	\$	597,888
Headframe						
Airlock Building and Freshair Intake Airlock Building and Freshair Intake Cold Storage 2 buildings 1,855 \$ 45.00 \$ 83,475 Surface Mobile Shop 1,008 \$ 128.00 \$ 129,024 Carpenter Shop As Treatment Plant Building 177 \$ 128.00 \$ 22,656 Pumphouse 74 \$ 128.00 \$ 9,472 Explosives Storage 412 \$ 128.00 \$ 9,472 Explosives Storage 412 \$ 128.00 \$ 52,736 Fire house 31 \$ 128.00 \$ 3,968 Emergency Power House 117 \$ 128.00 \$ 14,976 Weather Station and Storage Buildings 566 \$ 45.00 \$ 25,470 Shop 379 \$ 128.00 \$ 48,512 Batch Plant 118 \$ 128.00 \$ 15,104 ATV Building 172 \$ 45.00 \$ 7,740 Fuel Tanks 8,490 \$ 91.57 \$ 777,429 Piping 2,000 \$ 18.39 \$ 36,780 Freshwater Intake 225 \$ 128.00 \$ 28,800 Foundation Slabs - leave in please and cover - hrs Landfill for Demolition Waste Isolate Buildings (waste, water, glycol, sewer) Bone Yard Clean Up 1 \$ 350,000 \$ 35,000 Grade and Contour Grade/Contour Entire Mine Site Area Place 0.3 m granular fill over slabs Remove Culverts 22 \$ 500 \$ 11,000 Scarify and install water breaks Other - Grade and counter esker borrow area Other - main water supply line						
Intake		413	\$	128.00	\$	52,864
Intake		366	\$	128.00	\$	46,848
Surface Mobile Shop	Intake		Ė		_	
Surface Mobile Shop						
Carpenter Shop	Cold Storage 2 buildings					
As Treatment Plant Building 177 \$ 128.00 \$ 22,656 Pumphouse 74 \$ 128.00 \$ 9,472 Explosives Storage 412 \$ 128.00 \$ 5,2736 Fire house 31 \$ 128.00 \$ 3,968 Emergency Power House 117 \$ 128.00 \$ 14,976 Weather Station and Storage Buildings 5hop 379 \$ 128.00 \$ 48,512 Batch Plant 118 \$ 128.00 \$ 15,104 ATV Building 172 \$ 45.00 \$ 7,740 Fuel Tanks 8,490 \$ 91.57 \$ 777,429 Piping 2,000 \$ 18.39 \$ 36,780 Freshwater Intake 225 \$ 128.00 \$ 28,800 Fundation Slabs - leave in please and cover - hrs 125 \$ 190.00 \$ 450,000 \$ 450,000 \$ 6740 \$ 450,000 \$ 450,000 \$ 6740 \$ 450,000 \$ 150,	Surface Mobile Shop	1,008	\$	128.00	\$	129,024
Pumphouse	Carpenter Shop	482	\$	45.00	\$	21,690
Explosives Storage	As Treatment Plant Building			128.00		22,656
Fire house						
Emergency Power House						
Weather Station and Storage Buildings Shop 379 \$ 128.00 \$ 48,512	Fire house	31	\$	128.00	\$	3,968
Storage Buildings 366 \$ 45.00 \$ 25,470	Emergency Power House	117	\$	128.00	\$	14,976
Shop		566	\$	45.00	\$	25,470
ATV Building		379	\$	128.00	\$	48,512
Fuel Tanks		118	\$	128.00	\$	15,104
Piping	ATV Building	172	\$	45.00	\$	7,740
Freshwater Intake	Fuel Tanks	8,490	\$	91.57	\$	777,429
Foundation Slabs - leave in please and cover - hrs 25		2,000	\$	18.39	\$	
Delase and cover - hrs 25 190.00 \$ 4,750	Freshwater Intake	225	\$	128.00	\$	28,800
Isolate Buildings (waste, water, glycol, sewer)		25	\$	190.00	\$	4,750
Isolate Buildings (waste, water, glycol, sewer)						
water, glycol, sewer)	Landfill for Demolition Waste					
Operation of Landfill						
Operation of Landfill	Bone Vard Cloan Un	1	<	350 000	¢	350 000
Grade and Contour Grade/Contour Entire Mine Site Area Place 0.3 m granular fill 7,500 \$ 5.50 \$ 41,250						
Grade/Contour Entire Mine	The state of the s	1	_	,,,,,,,,,,	7	130,000
Site Area Place 0.3 m granular fill over slabs 7,500 \$ 5.50 \$ 41,250	Grade and Contour					
Place 0.3 m granular fill 7,500 \$ 5.50 \$ 41,250						
Remove Culverts 22		7 500	ć	E F0	ė	41 350
Remove Culverts 22		7,500	ڔ	5.50	ڔ	41,250
Scarify and install water breaks 12 \$ 6,030.00 \$ 72,360 Other - Grade and counter esker borrow area Other - main water supply line		7.7	_	500	ć	44.000
breaks		22	Ş	500	\$	11,000
esker borrow area Other - main water supply line	breaks	12	\$	6,030.00	\$	72,360
Other - main water supply line		180,000	\$	0.95	\$	171,000
	Other - main water supply					
		1	•		\$	4,202,397

	_	
Equipment and		
Building Decont	amı	ination and Haz Waste Removal
		Golder considers that this was covered by on Section "Hazard Materials
218,572		Consolidated for Removal" below. Substantial volumes were removed in
	_	2015 - 2017.
-		
D D 111:	L	
Remove Building	gs_	Golder changed from a really high unit rate, higher than RECLAIM for all
608,307		buildings and broke out the ones that are easy to dismantle etc.
	Н	buildings and broke out the ones that are easy to dismantie etc.
-		
_	-	
	Н	
_	-	
_	_	
-	Н	
-		
40,448	П	This building has already been removed years ago
		Golder changed from a really high unit rate, higher than RECLAIM for all
153,965		buildings and broke out the ones that are easy to dismantle etc.
-		·
40,006		Golder changed from a really high unit rate, higher than RECLAIM for all
40,006		buildings and broke out the ones that are easy to dismantle etc.
_		
-		
-		
-	_	
-	_	
-		
	_	
46,978		Golder changed from a really high unit rate, higher than RECLAIM for all buildings and broke out the ones that are easy to dismantle etc.
_	-	buildings and broke out the ones that are easy to dismantie etc.
	Н	
	Т	Golder changed from a really high unit rate, higher than RECLAIM for all
14,276		buildings and broke out the ones that are easy to dismantle etc.
(177,579)		·
(36,780)		
(28,800)		
(4,750)		
	_	
-	_	
	- 1:4	
Landfill for Dem	OIIL	Included in our building costs above which is why we are so high in price
310,239		from RECLAIM (also included breaking foundations which we are not doing
310,233		now)
_	_	
-		
-		
Grade and Conto	our	
-		
1,028,573		No longer required based on new plan above,
1,020,575		however an allowance of 33 is included in section Waste Pile
140,705		Concrete slabs will be left in place, hoe-rammed and then covered with 0.5
		m of granular material.
Reclaim Roads	_	
(11,000)	H	
2,909	ĺ	
	H	
(151,000)		
	H	
5,000	ĺ	
2,200,069	Т	
_,,		

Chemica	als	Unit	Price		Total	Chei	micals	Unit	Price	Total	Chemicals	
Hazai	rdous Materials Audit					Н	azardous Materials Audit					
	Hazardous Waste Audit	1	\$ 25,00	0 \$	25,000		Hazardous Waste Audit				25,000	Asbestos survey was completed in 2017
												, ,
Build	ing Decontamination and H	az Waste Remova	al			В	uilding Decontamination and Haz \	Waste Removal			Building Decontar	minate and Haz Waste Removal
	Decontaminate - oil,						Decontaminate - oil, fuel,	8.490	\$ 22.80	\$ 193,572	(193,572)	
	fuel, glycol systems						glycol systems	8,490	\$ 22.60	\$ 195,572	(195,572)	
	Removal of Asbestos -						Removal of Asbestos - vinyl	941	\$ 140.00	\$ 131,740	(131,740)	
	vinyl sheet flooring						sheet flooring	341	3 140.00	ÿ 131,740	(131,740)	
	Removal of Asbestos -						Removal of Asbestos - vinyl	218	\$ 54.00	\$ 11,772	(11,772)	
	vinyl floor tiles						floor tiles	210	y 34.00	ÿ 11,772	(11,772)	
	Removal of Asbestos -						Removal of Asbestos -	1,943	\$ 26.00	\$ 50,518	(50,518)	
_	mastic and caulking						mastic and caulking	· ·	ŷ 20.00	7 00,000		
Hazai	rdous Materials Consolidate					Н	azardous Materials Consolidated f					ials Consolidated for Removal
	Waste Oils	100,000	\$ 1.2		120,000		Waste Oils	1,000	\$ 1.20	\$ 1,200	118,800	
	Fuel	2,344,460	\$ 1.2		2,813,352		Waste Fuel	100,000	\$ 0.43	\$ 43,000	2,770,352	Use existing fuel for closure. Burn leftover (assumed 100,000 L)
	Waste batteries	100	\$ 2	5 \$	2,500		Waste batteries	500	\$ 25	\$ 12,500	(10,000)	
	Assay and environmental lab reagents	1,000	\$ 2	5 \$	25,000		Machine Shop Paints, Solvents etc.	5,000	\$ 1.20	\$ 6,000	19,000	
Hazai	rdous Materials					Н	azardous Materials				Hazardous Materi	ials
	Disposal Fees	100	\$ 25	0 \$	25,000						25,000	
Conta	aminated Soil					С	ontaminated Soil				Contaminated Soi	
	Type 2, heavy fuel and oil	40,000	\$ 60.1	7 \$	2,406,967		Type 2, heavy fuel and oil - Landfarm	35,200	\$ 47.00	\$ 1,654,400	752,567	2017 ESA update indicated smaller quantities. Used lower unit rate for landfarming, estimated based on cost of constructed pilot cell.
							Construct 4 Landfarms	1	\$ 180,000	\$ 180,000	(180,000)	
											- 1	
	Type 3, metals	2,000	\$ 5.7	3 \$	11,463						11,463	
	Other contaminants	800	\$ 5.7	3 \$	4,585						4,585	
											-	
	Contaminated Soil Investigation	1	\$ 200,00	0 \$	200,000						200,000	Completed in 2017 ESA update
											-	
Conta	aminated Soil Removal					С	ontaminated Soil Removal				Contaminated Soi	il Removal
				_							-	
				-								
				_			-					
Total				_	5,633,866	-	otal			A 2224 702	3,349,164	
Total				ş	5,633,866	, ,	otai			\$ 2,284,702	3,349,164	
Water N	Management	Unit	Price		Total	Wat	er Management	Unit	Price	Total	Water Manageme	ent
	Remove pump						Remove pump	1	\$ 10,000.00	\$ 10,000	(10,000)	
							Treatment Plant Operation				(267,900)	Volume from lowering 2 ponds 1.9 m one time lime treatment.
	1			1				, ,		. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , ,,,,,,,	V F
Total				\$	-	T	otal			\$ 277,900	(277,900)	KP included an allowance of 100,000 under "Tailings Impoundment" above.
TOTAL D	DIRECT COSTS - KP OCTOBE	R 2015			TOTAL	TOT	AL DIRECT COSTS - GOLDER 2017			TOTAL	TOTAL DIRECT CO	ST COMPARISON
	ound Mine			\$	464,639		erground Mine			\$ 464,445	194	
	Impoundment			\$	4,858,010		ngs Impoundment			\$ 2,086,597	2,771,414	
Rock Pile				\$	3,200,000		k Pile			\$ 3,159,168	40,832	
	ent and Buildings			\$	6,402,466		pment and Buildings			\$ 4,202,397	2,200,069	
Chemica				\$	5,633,866		micals			\$ 2,284,702	3,349,164	
	Management Communication			\$	-		er Management			\$ 277,900	(277,900)	
	Care and Maintenance	1		\$	386,693		rim Care and Maintenance		1	\$ 268,038	118,655	
	sure Monitoring and Maint	enance		-			Closure Monitoring and Maintena	ince		4		
ı otal l	Direct Costs			\$	20,945,674	Tot	al Direct Costs			\$ 12,743,247	8,202,427	

	n	Unit	Price	Total	I I	Mobilizati	ion	Unit	Price	Total	Mobilization		
Equipme	nt, regional center to sit	te				Equipm	nent, regional center to site				Equipment,	onal centre to site	
E	Excavators	2	\$ 150,000	\$ 300,00	00		Excavators	1	\$ 150,000	\$ 150,000	150,0	which is currently on site an equipment they already ow	onsidering the use of construction equipment id being used. Noting LMI will be bringing in n from Ulu in 2019 and will then not require ft it in as the equipment is not currently at site
[Dump trucks	4	\$ 50,000	\$ 200,00			Dump trucks	1	\$ 50,000	\$ 50,000			
1	Dozers	2		\$ 300,00			Dozers	1	\$ 150,000	\$ 150,000			
I -	Demolition shears	_	\$ 200,000	\$ 200,00			Demolition shears	2	\$ 300,000	\$ 600,000			
	Crane	1					Crane	1		\$ 150,000			
	ight duty vehicle oader	2	\$ 25,000 \$ 150,000				Light duty vehicle Loader	<u>3</u>	\$ 25,000 \$ 150,000	\$ 60,000 \$ 150,000			
Mobilize			\$ 150,000	\$ 500,00	00	Mohiliz	e Workers	1	\$ 150,000	\$ 150,000	Mobilize Wo	2	
	Crew Travel Time	40	\$ 1,000	\$ 40,00	00	WIGOINE	LE WOINEIS				40,0		
	Crew transportation	40	\$ 4,500	\$ 180,00	00						180,0	Golder covered this as Twin Road" section below.	Otter and Dash 7 aircraft flights under "Wint
1	Monitoring airfare	5	\$ 4,500	\$ 22,50	00						22,5		
Mobilize	Misc. Supplies					Mobiliz	e Misc. Supplies				Mobilize Mis	upplies	
	Fuel	1,400,000	\$ 1.39	\$ 1,946,00	00						1,946,0	(results filed with the NWB)	n site, the fuel has been tests the last two yea and is has been used at the site. LMI would uel could be seized and used in the case of
6	Minor tools and equipment	1	\$ 100,000	\$ 100,00	00		Minor tools and equipment	1	\$ 100,000	\$ 100,000			
Worker A	Accommodations					Worker	Accommodations				Worker Acco		
	Man months	275		\$ 1,443,75	50		Man months	6,600	\$ 74	\$ 489,258		the existing camp facilities. the LMI does not and has no Discovery or Summit Airline	tes for when they had to reclaim assuming no
Winter R	oad					Winter					Winter Road		
					_		Twin Otter Flights	48	\$ 4,500.00				
1 1							Dash 7 Flights	20	\$ 9,100.00	\$ 182,000	(182,0		
1				i e						¢ 100.000	/100.0		
	re Road	1	\$ 1,464,212	\$ 1,464.2	12		Herc Flights	5	\$ 20,000.00			366 km GK to site times 2 si	easons
1	ce Road	1	\$ 1,464,212	\$ 1,464,21	12		Herc Flights Ice Road Construction	5 732	\$ 20,000.00 \$ 2,000	\$ 1,464,000	2	366 km GK to site times 2 so 20,000 tonnes x 220 km x 2	
	ce Road	1	\$ 1,464,212				Herc Flights	5	\$ 20,000.00	\$ 1,464,000 \$ 968,000	(968,0	20,000 tonnes x 220 km x 2	
Total	ce Road	1	\$ 1,464,212	\$ 1,464,23		Total	Herc Flights Ice Road Construction	5 732	\$ 20,000.00 \$ 2,000	\$ 1,464,000	(968,0	20,000 tonnes x 220 km x 2	
Total	e Monitoring and			\$ 6,671,46	52 F	Post Closu	Herc Flights Ice Road Construction Winter Road Tariff	5 732 8,800,000	\$ 20,000.00 \$ 2,000 \$ 0.11	\$ 1,464,000 \$ 968,000 \$ 4,829,258	2 (968,0 1,842,2	20,000 tonnes x 220 km x 2	
Total ost Closure	e Monitoring and	1 Unit	\$ 1,464,212		52 F	Post Closu Maintena	Herc Flights Ice Road Construction Winter Road Tariff are Monitoring and	5 732	\$ 20,000.00 \$ 2,000	\$ 1,464,000 \$ 968,000	2 (968,0 - - 1,842,2 Post Closure	20,000 tonnes x 220 km x 2	
Total ost Closure laintenane Monitori	e Monitoring and ce ng and Inspections			\$ 6,671,46	52 F	Post Closu Maintena	Herc Flights Ice Road Construction Winter Road Tariff	5 732 8,800,000	\$ 20,000.00 \$ 2,000 \$ 0.11	\$ 1,464,000 \$ 968,000 \$ 4,829,258	2 (968,0 1,842,2	20,000 tonnes x 220 km x 2	
Total ost Closure laintenane Monitori	e Monitoring and			\$ 6,671,40	52 F	Post Closu Maintena	Herc Flights Ice Road Construction Winter Road Tariff are Monitoring and	5 732 8,800,000	\$ 20,000.00 \$ 2,000 \$ 0.11	\$ 1,464,000 \$ 968,000 \$ 4,829,258	2 (968,0 1,842,2 Post Closure Monitoring s	20,000 tonnes x 220 km x 2	
Total ost Closure laintenane Monitori	e Monitoring and ce eng and Inspections Annual geotechnical nsp.	Unit	Price	\$ 6,671,44 Total \$ 229,25	52 F	Post Closu Maintena	Herc Flights Ice Road Construction Winter Road Tariff are Monitoring and nce ring and Inspections	5 732 8,800,000 Unit	\$ 20,000.00 \$ 2,000 \$ 0.11	\$ 1,464,000 \$ 968,000 \$ 4,829,256 Total \$ 229,235	22 (968,0 1,842,2 Post Closure Monitoring 3	20,000 tonnes x 220 km x 2	
Total ost Closure laintenance Monitori i	e Monitoring and te ng and Inspections Annual geotechnical nsp. surface water ampling	Unit 10	\$ 22,923 \$ 100,000	\$ 6,671,44 Total \$ 229,23	52 F	Post Closu Maintena	Herc Flights Ice Road Construction Winter Road Tariff Ire Monitoring and nee rring and Inspections Annual geotechnical insp. Water Sampling	5 732 8,800,000 Unit	\$ 20,000.00 \$ 2,000 \$ 0.11 Price \$ 22,923	\$ 1,464,000 \$ 968,000 \$ 4,829,256 Total \$ 229,235	2 (968,0 1,842,2 Post Closure Monitoring 3	20,000 tonnes x 220 km x 2	
Total ost Closur laintenanc Monitori i	e Monitoring and te ng and Inspections Annual geotechnical nsp. Surface water sampling	10 3	\$ 22,923 \$ 100,000 \$ 126,079	\$ 6,671,46 Total \$ 229,23 \$ 300,00 \$ 126,00	52 F	Post Closu Maintena	Herc Flights Ice Road Construction Winter Road Tariff are Monitoring and Inspections Annual geotechnical insp. Water Sampling EEM	5 732 8,800,000 Unit	\$ 20,000.00 \$ 2,000 \$ 0.11 Price \$ 22,923 \$ 100,000 \$ 126,079	\$ 1,464,000 \$ 968,000 \$ 4,829,258 Total \$ 229,235 \$ 300,000 \$ 126,075	2 (968,0)	20,000 tonnes x 220 km x 2	
Total ost Closur laintenanc Monitori i	e Monitoring and te ng and Inspections Annual geotechnical nsp. surface water ampling	Unit 10	\$ 22,923 \$ 100,000 \$ 126,079	\$ 6,671,44 Total \$ 229,2: \$ 300,00 \$ 126,0:	52 F	Post Closu Maintena	Herc Flights Ice Road Construction Winter Road Tariff Ire Monitoring and nee rring and Inspections Annual geotechnical insp. Water Sampling	5 732 8,800,000 Unit	\$ 20,000.00 \$ 2,000 \$ 0.11 Price \$ 22,923 \$ 100,000 \$ 126,079	\$ 1,464,000 \$ 968,000 \$ 4,829,258 Total \$ 229,235 \$ 300,000 \$ 126,075	2 (968,0)	20,000 tonnes x 220 km x 2	
Total ost Closur laintenance Monitori i i f	e Monitoring and the second sec	10 3	\$ 22,923 \$ 100,000 \$ 126,079	\$ 6,671,46 Total \$ 229,2: \$ 300,00 \$ 126,0: \$ 61,80	52 F	Post Closu Maintena	Herc Flights Ice Road Construction Winter Road Tariff are Monitoring and Inspections Annual geotechnical insp. Water Sampling EEM	5 732 8,800,000 Unit	\$ 20,000.00 \$ 2,000 \$ 0.11 Price \$ 22,923 \$ 100,000 \$ 126,079	\$ 1,464,000 \$ 968,000 \$ 4,829,258 Total \$ 229,235 \$ 300,000 \$ 126,075	2 (968,0)	20,000 tonnes x 220 km x 2	
Total ost Closur laintenance Monitori i i f f g s s s s s s s s s s s s	e Monitoring and ce on and inspections Annual geotechnical insp. Surface water sampling EEM Monitoring years 1-10 Receiving/ Jownstream water sampling	10 3 1 10	\$ 22,923 \$ 100,000 \$ 126,079 \$ 6,180	\$ 6,671,44 Total \$ 229,2: \$ 300,00 \$ 126,0: \$ 61,80	52 F	Post Closu Maintenai Monito	Herc Flights Ice Road Construction Winter Road Tariff We Monitoring and Ince Iring and Inspections Annual geotechnical insp. Water Sampling EEM Monitoring years 1-10	5 732 8,800,000 Unit	\$ 20,000.00 \$ 2,000 \$ 0.11 Price \$ 22,923 \$ 100,000 \$ 126,079	\$ 1,464,000 \$ 968,000 \$ 4,829,258 Total \$ 229,235 \$ 300,000 \$ 126,075	2 (968,0 1,842,2 Post Closure Monitoring : (61,8	20,000 tonnes x 220 km x 2 initoring and Maintenance inspections	
Total ost Closur laintenance Monitori i i f f g s s s s s s s s s s s s	e Monitoring and the second sec	10 3 1 10	\$ 22,923 \$ 100,000 \$ 126,079 \$ 6,180	\$ 6,671,44 Total \$ 229,2: \$ 300,00 \$ 126,0: \$ 61,80	52 F	Post Closu Maintenai Monito	Herc Flights Ice Road Construction Winter Road Tariff are Monitoring and Inspections Annual geotechnical insp. Water Sampling EEM	5 732 8,800,000 Unit	\$ 20,000.00 \$ 2,000 \$ 0.11 Price \$ 22,923 \$ 100,000 \$ 126,079	\$ 1,464,000 \$ 968,000 \$ 4,829,258 Total \$ 229,235 \$ 300,000 \$ 126,075	2 (968,0 1,842,2 Post Closure Monitoring a (61,8	20,000 tonnes x 220 km x 2 initoring and Maintenance inspections	
Total ost Closur laintenance Monitori i f c c c c c c c c c c c c	e Monitoring and ce on and inspections Annual geotechnical insp. Surface water sampling EEM Monitoring years 1-10 Receiving/ Jownstream water sampling	10 3 1 10	\$ 22,923 \$ 100,000 \$ 126,079 \$ 6,180	\$ 6,671,44 Total \$ 229,2: \$ 300,00 \$ 126,0: \$ 61,80	52 F	Post Closu Maintena Monito	Herc Flights Ice Road Construction Winter Road Tariff We Monitoring and Ince Iring and Inspections Annual geotechnical insp. Water Sampling EEM Monitoring years 1-10	5 732 8,800,000 Unit	\$ 20,000.00 \$ 2,000 \$ 0.11 Price \$ 22,923 \$ 100,000 \$ 126,079	\$ 1,464,000 \$ 968,000 \$ 4,829,258 Total \$ 229,235 \$ 300,000 \$ 126,075	2 (968,0 1,842,2 Post Closure Monitoring : (61,8	20,000 tonnes x 220 km x 2 initoring and Maintenance Inspections	
Total ost Closurdaintenance Monitori i i c c c cover ma Spillway	e Monitoring and see and inspections Annual geotechnical insp. Sourface water sampling SEEM Monitoring years 1-10 downstream water sampling seight of the second of the s	10 3 1 10	\$ 22,923 \$ 100,000 \$ 126,079 \$ 6,180	\$ 6,671,44 Total \$ 229,2: \$ 300,00 \$ 126,0: \$ 61,80	52 F	Maintena Monito Monito	Herc Flights Ice Road Construction Winter Road Tariff The Monitoring and Inspections Annual geotechnical insp. Water Sampling EEM Monitoring years 1-10 maintenance	5 732 8,800,000 Unit	\$ 20,000.00 \$ 2,000 \$ 0.11 Price \$ 22,923 \$ 100,000 \$ 126,079	\$ 1,464,000 \$ 968,000 \$ 4,829,258 Total \$ 229,235 \$ 300,000 \$ 126,075	Post Closure Monitoring a (61,8 Cover Maint Spillway Mai	20,000 tonnes x 220 km x 2 Initoring and Maintenance Inspections Inspections Inspections Inspections Inspections Inspections	
Total ost Closurdaintenance Monitori i i c c c cover ma Spillway	e Monitoring and te ng and Inspections Annual geotechnical nsp. Surface water sampling EEM Monitoring years 1-10 Receiving/ downstream water sampling sintenance	10 3 1 10	\$ 22,923 \$ 100,000 \$ 126,079 \$ 6,180	\$ 6,671,44 Total \$ 229,2: \$ 300,00 \$ 126,0: \$ 61,80	52 F	Maintena Monito Monito	Herc Flights Ice Road Construction Winter Road Tariff Winter Road Tariff Annual geotechnical insp. Water Sampling EEM Monitoring years 1-10	5 732 8,800,000 Unit	\$ 20,000.00 \$ 2,000 \$ 0.11 Price \$ 22,923 \$ 100,000 \$ 126,079	\$ 1,464,000 \$ 968,000 \$ 4,829,258 Total \$ 229,235 \$ 300,000 \$ 126,075	2 (968,0 1,842,2 1,842,2 Post Closure Monitoring a (61,8 61,8 Cover Maint	20,000 tonnes x 220 km x 2 Initoring and Maintenance Inspections Inspections Inspections Inspections Inspections Inspections	
Total ost Closurdaintenance Monitori i i c c c cover ma Spillway	e Monitoring and see and inspections Annual geotechnical insp. Sourface water sampling SEEM Monitoring years 1-10 downstream water sampling seight of the second of the s	10 3 1 10	\$ 22,923 \$ 100,000 \$ 126,079 \$ 6,180	\$ 6,671,44 Total \$ 229,2: \$ 300,00 \$ 126,0: \$ 61,80	52 F	Maintena Monito Monito	Herc Flights Ice Road Construction Winter Road Tariff The Monitoring and Inspections Annual geotechnical insp. Water Sampling EEM Monitoring years 1-10 maintenance	5 732 8,800,000 Unit	\$ 20,000.00 \$ 2,000 \$ 0.11 Price \$ 22,923 \$ 100,000 \$ 126,079	\$ 1,464,000 \$ 968,000 \$ 4,829,258 Total \$ 229,235 \$ 300,000 \$ 126,075	Post Closure Monitoring a (61,8 Cover Maint Spillway Mai	20,000 tonnes x 220 km x 2 Initoring and Maintenance Inspections Inspections Inspections Inspections Inspections Inspections	
Total ost Closurdaintenance Monitori i i c c c cover ma Spillway	e Monitoring and see and inspections Annual geotechnical insp. Sourface water sampling SEEM Monitoring years 1-10 downstream water sampling seight of the second of the s	10 3 1 10	\$ 22,923 \$ 100,000 \$ 126,079 \$ 6,180	\$ 6,671,44 Total \$ 229,2: \$ 300,00 \$ 126,0: \$ 61,80	52 F	Maintena Monito Monito	Herc Flights Ice Road Construction Winter Road Tariff The Monitoring and Inspections Annual geotechnical insp. Water Sampling EEM Monitoring years 1-10 maintenance	5 732 8,800,000 Unit	\$ 20,000.00 \$ 2,000 \$ 0.11 Price \$ 22,923 \$ 100,000 \$ 126,079	\$ 1,464,000 \$ 968,000 \$ 4,829,258 Total \$ 229,235 \$ 300,000 \$ 126,075	Post Clousre Monitoring a (61,8 Cover Maint Spillway Mai	20,000 tonnes x 220 km x 2 Initoring and Maintenance Inspections Inspections Inspections Inspections Inspections Inspections	
Total ost Closurdaintenance Monitori i i c c c cover ma Spillway	e Monitoring and see and inspections Annual geotechnical insp. Sourface water sampling SEEM Monitoring years 1-10 downstream water sampling seight of the second of the s	10 3 1 10	\$ 22,923 \$ 100,000 \$ 126,079 \$ 6,180 \$ 6,180 Subtotal 1-10 years Subtotal long- term 10-100	\$ 6,671,46 Total \$ 229,2: \$ 300,00 \$ 126,0: \$ 61,80	52 52 53 50 60 60 60 60 60 60 60 60 60 6	Maintena Monito Monito	Herc Flights Ice Road Construction Winter Road Tariff The Monitoring and Inspections Annual geotechnical insp. Water Sampling EEM Monitoring years 1-10 maintenance	5 732 8,800,000 Unit	\$ 20,000.00 \$ 2,000 \$ 0.11 Price \$ 22,923 \$ 100,000 \$ 126,079 \$ 12,360 Subtotal 1-10 years Subtotal long-term 10-100	\$ 1,464,000 \$ 968,000 \$ 4,829,258 Total \$ 229,235 \$ 300,000 \$ 126,075 \$ 123,600	Post Closure Monitoring a (61,8 Cover Maint Spillway Mai	20,000 tonnes x 220 km x 2 Initoring and Maintenance Inspections Inspections Inspections Inspections Inspections Inspections	
Total ost Closurdaintenance Monitori i i c c c cover ma Spillway	e Monitoring and see and inspections Annual geotechnical insp. Sourface water sampling SEEM Monitoring years 1-10 downstream water sampling seight of the second of the s	10 3 1 10	\$ 22,923 \$ 100,000 \$ 126,079 \$ 6,180 \$ 6,180 \$ Subtotal 1-10 years Subtotal long-	\$ 6,671,46 Total \$ 229,23 \$ 300,00 \$ 126,03 \$ 61,80 \$ 61,80	52 52 53 50 60 60 60 60 60 60 60 60 60 6	Maintena Monito Monito	Herc Flights Ice Road Construction Winter Road Tariff The Monitoring and Inspections Annual geotechnical insp. Water Sampling EEM Monitoring years 1-10 maintenance	5 732 8,800,000 Unit	\$ 20,000.00 \$ 2,000 \$ 0.11 Price \$ 22,923 \$ 100,000 \$ 126,079 \$ 12,360 Subtotal 1-10 years Subtotal long-	\$ 1,464,000 \$ 968,000 \$ 4,829,256 Total \$ 229,235 \$ 300,000 \$ 126,075 \$ 123,600	Post Closure Monitoring a (61,8 Cover Maint Spillway Mai	20,000 tonnes x 220 km x 2 Initoring and Maintenance Inspections Inspections Inspections Inspections Inspections Inspections	
Total ost Closurdaintenance Monitori i i c c c cover ma Spillway	e Monitoring and see and inspections Annual geotechnical insp. Sourface water sampling SEEM Monitoring years 1-10 downstream water sampling seight of the second of the s	10 3 1 10	\$ 22,923 \$ 100,000 \$ 126,079 \$ 6,180 \$ 6,180 Subtotal 1-10 years Subtotal long- term 10-100	\$ 6,671,46 Total \$ 229,23 \$ 300,00 \$ 126,03 \$ 61,80 \$ 61,80	52 52 53 50 50 50 60 60 60 60 60 60 60 60 60 6	Maintena Monito Monito	Herc Flights Ice Road Construction Winter Road Tariff The Monitoring and Inspections Annual geotechnical insp. Water Sampling EEM Monitoring years 1-10 maintenance	5 732 8,800,000 Unit	\$ 20,000.00 \$ 2,000 \$ 0.11 Price \$ 22,923 \$ 100,000 \$ 126,079 \$ 12,360 Subtotal 1-10 years Subtotal long-term 10-100	\$ 1,464,000 \$ 968,000 \$ 4,829,256 Total \$ 229,235 \$ 300,000 \$ 126,075 \$ 123,600	2 (968,0 (968,0 1,842,2 Post Closure Monitoring 3 (61,8 Cover Maint Spillway Mail Post Clousre (106,2 (106,2 Cover Maint Monitoring Monitoring 3 (106,2 Cover Maint Monitoring 3 (106,2 Cover Maint Monitoring 4 (106,2 Cover Monitoring 4 (20,000 tonnes x 220 km x 2 Initoring and Maintenance Inspections Inspections Inspections Inspections Inspections Inspections	

Mob/Demo (see above)		\$ 6,671,462	Mob/Demo (see above)		\$ 4,829,258	1,842,204	
Post Closure Monitoring and Maintenance (see		\$ 830,014	Post Closure Monitoring and M	laintenance (see above)	\$ 936,257	(106,243)	
Engineering	8%	\$ 1,696,726	Engineering	4%	\$ 509,730	1,186,996	
Project Management	5%	\$ 1,060,454	Project Management	5%	\$ 637,162	423,292	
Health and Safety Plans/Monitoring & QA/QC	0%	\$ -	Health and Safety Plans/Monit	oring & QA/QC 0%	\$ -	-	
Bonding and Insurance	0%	\$ -	Bonding and Insurance	1%	\$ 127,432	(127,432)	
Contingency	15%	\$ 3,181,361	Contingency	10%	\$ 1,274,325	1,907,036	Based on percentage
Post Closure Monitoring and Maintenance			Post Closure Monitoring and M	laintenance		-	
Market Price Factor Adjustment	0%	\$ -	Market Price Factor Adjustmen	nt 0%	\$ -	-	
						-	
Total indirect Costs		\$ 13,440,017	Total indirect Costs		\$ 8,314,164	5,125,853	
						-	
Grand Total		\$ 34,385,691	Grand Total		\$ 21,057,411	13,328,280	