

NUMERICAL EVALUATION FOR THE ZORTMAN MAA

ACCOUNTS	ACCOUNT WEIGHT	SUB ACCOUNTS (issues)	SUB ACCOUNT WEIGHT	INDICATORS	INDICATOR WEIGHT	ALTERNATIVE Z1 (Final EIS ALT.3, ROD)	ALTERNATIVE Z2 (Optimize Water Treatment within Bond)	ALTERNATIVE Z3 (Optimize Source Control within Bond)	ALTERNATIVE Z4 (Additional Pit Backfilling)	ALTERNATIVE Z5 (Total Backfill to Pre-Mine Topography)	ALTERNATIVE Z6 (Optimize Source Control and Aesthetics)	Discriminating Value (based on 20%)	
TECHNICAL	3	79/81, 83, 84, 89 LEACH PAD	2	Dikes	5	9	9	9	9	9	9	0 ND	
		Heaps		3	9	9	9	9	9	9	0 ND		
		Liners		1	9	9	9	9	9	9	0 ND		
	SUB ACCOUNT SCORE						9.0	9.0	9.0	9.0	9.0	9.0	
	82 LEACH PAD	2	Heap, Dike & Liner		Stability/Erodability/Maintainability	4	9	9	9	9	9	9	0 ND
			SUB ACCOUNT SCORE						9.0	9.0	9.0	9.0	9.0
	85/86 LEACH PAD	4	Dike		Stability/Erodability/Maintainability	3	7	3	7	7	9	7	18 D
			Heap		Stability/Erodability/Maintainability	4	5	5	5	7	9	7	16 D
			Liner		Durability/Maintainability	1	5	5	5	5	9	5	4 ND
			SUB ACCOUNT SCORE						5.8	4.3	5.8	6.8	9.0
	WASTE ROCK DUMPS (Alder Gulch)	3	Stability/Erodability/Maintainability	3	9	5	5	9	9	9	7	12 D	
	SUB ACCOUNT SCORE						9.0	5.0	5.0	9.0	9.0	7.0	
	WASTE ROCK DUMPS (OK)	2	Stability/Erodability/Maintainability	2	9	5	5	7	7	7	7	8 D	
	SUB ACCOUNT SCORE						9.0	5.0	5.0	7.0	7.0	7.0	
	WASTE ROCK DUMPS (South Ruby)	2	Stability/Erodability/Maintainability	2	9	9	9	9	9	9	9	0 ND	
	SUB ACCOUNT SCORE						9.0	9.0	9.0	9.0	9.0	9.0	
	OPEN PITS (N. Alabama)	1	Stability	1	5	5	5	9	9	7	7	4 ND	
	SUB ACCOUNT SCORE						5.0	5.0	5.0	9.0	9.0	7.0	
	OPEN PITS (S. Alabama)	2	Stability	2	7	7	7	9	9	7	7	4 ND	
	SUB ACCOUNT SCORE						7.0	7.0	7.0	9.0	9.0	7.0	
	OPEN PITS (OK/Ruby & Mint)	2	Stability	2	5	5	5	5	9	5	5	8 D	
SUB ACCOUNT SCORE						5.0	5.0	5.0	5.0	9.0	5.0		

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		OPEN PITS (Ross Pit)	2	Stability	2	5	5	5	9	9	7	8 D	
		SUB ACCOUNT SCORE					5.0	5.0	5.0	9.0	9.0	7.0	
		UNDERGROUND WORKINGS	1	Stability	1	9	9	9	9	9	9	9	0 ND
		SUB ACCOUNT SCORE					9.0	9.0	9.0	9.0	9.0	9.0	
		TAILINGS (in Ruby Gulch)	3	Erodability	3	9	1	1	9	9	9	5	24 D
		SUB ACCOUNT SCORE					9.0	1.0	1.0	9.0	9.0	5.0	
		STORM WATER CONTROL (Ditches)	5	Maintenance Requirements	5	9	9	9	9	9	9	9	0 ND
		SUB ACCOUNT SCORE					9.0	9.0	9.0	9.0	9.0	9.0	
		COLLECTION & SEEPAGE CAPTURE/PUMPBACK SYSTEMS	5	Operating Requirements	3	5	7	3	9	9	9	3	18 D
				Maintenance Requirements	2	7	9	7	9	9	9	7	4 ND
		SUB ACCOUNT SCORE					5.8	7.8	4.6	9.0	9.0	4.6	
		WTP/LAD TREATMENT & RELEASE	2	Operating Requirements	5	9	7	7	9	9	9	7	10 D
				Sludge Disposal	3	9	5	9	5	5	9	9	12 D
		SUB ACCOUNT SCORE					9.0	6.3	7.8	7.5	7.5	7.8	
ALTERNATIVE TECHNOLOGIES	1	Potential Application	1	9	9	9	9	9	9	9	0 ND		
SUB ACCOUNT SCORE					9.0	9.0	9.0	9.0	9.0	9.0			
RECLAMATION COVERS	3	Long-term Durability	3	5	9	9	5	9	9	7	12 D		
SUB ACCOUNT SCORE					5.0	9.0	9.0	5.0	9.0	7.0			
ACCOUNT SCORE					7.5	6.7	6.5	8.1	8.8	7.1			
PROJECT ECONOMICS	3	RECLAMATION COST	5										
		Short Term Reclamation & LAD (~ 5yrs)		Cost	5	5	8	8	3	1	7	34 D	
		Long Term Monitoring/Maintenance		NPV of Annual Costs	2	6	9	9	3	3	3	11 D	
		% Attainable		% Attainable Within Bond	5	3	9	9	2	1	6	40 D	
		SUB ACCOUNT SCORE					4.3	8.5	8.5	2.4	1.4	6.0	
LONG TERM WATER TREATMENT CO	3	Costs		NPV of Annual Costs	5	8	9	7	9	9	8	10 D	
SUB ACCOUNT SCORE					8.0	9.0	7.0	9.0	9.0	8.0			
ACCOUNT SCORE					5.7	8.7	7.9	4.9	4.2	6.7			

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ENVIRONMENT	5	SURFACE WATER QUALITY PROTECTION VALUE	4	Alder Spur	1	9	9	9	9	9	9	0 ND	
				Carter Spur	1	9	7	5	9	9	7	4 ND	
				Ruby Gulch	4	9	7	5	9	9	7	16 D	
				Lodgepole Creek	5	7	7	7	5	5	9	20 D	
				SUB ACCOUNT SCORE				8.1	7.2	6.3	7.2	7.2	8.1
		SURFACE WATER QUANTITY PROTECTION VALUE	3	Alder Spur	1	9	9	9	9	9	9	9	0 ND
				Carter Spur	1	9	7	7	9	9	7	2 ND	
				Ruby Gulch	4	9	5	9	7	7	9	16 D	
				Lodgepole Creek	5	7	7	7	9	9	7	10 D	
				SUB ACCOUNT SCORE				8.1	6.5	7.9	8.3	8.3	7.9
		GROUNDWATER PROTECTION VALUE	5	Alder Spur	1	9	9	9	9	9	9	9	0 ND
				Carter Spur	1	9	5	5	9	9	7	4 ND	
				Ruby Gulch	3	9	7	7	9	9	9	6 ND	
				Lodgepole Creek	5	7	7	7	5	5	9	20 D	
				SUB ACCOUNT SCORE				8.0	7.0	7.0	7.0	7.0	8.8
		WTP WATER QUANTITY & QUALITY (	3	Acidity Load		3	9	5	5	7	7	7	12 D
						SUB ACCOUNT SCORE				9.0	5.0	5.0	7.0
LAD WATER QUALITY	3	NO3/NO2 Load		2	9	9	9	9	9	9	0 ND		
				SUB ACCOUNT SCORE				9.0	9.0	9.0	9.0	9.0	9.0
LAD WATER QUANTITY	2	Volume		2	9	5	7	9	9	7	8 D		
				SUB ACCOUNT SCORE				9.0	5.0	7.0	9.0	9.0	7.0
RE-ESTABLISHMENT OF BIOLOGICAL/VEGETATIVE POTENTIAL	5	Density of Revegetated Areas		3	7	5	7	9	9	9	12 D		
				5	7	5	7	9	9	9	20 D		
				3	8.5	8	8	8	9	8	3 ND		
				4	5	5	5	9	9	7	16 D		
				SUB ACCOUNT SCORE				6.8	5.6	6.7	8.8	9.0	8.3
ACCOUNT SCORE						8.1	6.5	6.9	7.9	8.0	8.1		

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SOCIO-ECONOMICS	4	AESTHETICS	5	Appearance (Pleasing)	5	5	3	5	7	9	7	30	D	
		SUB ACCOUNT SCORE					5.0	3.0	5.0	7.0	9.0	7.0		
		HUNTING & RECREATION	3	Suitability	3	7	7	7	9	9	9	9	6	ND
		SUB ACCOUNT SCORE					7.0	7.0	7.0	9.0	9.0	9.0		
		TOURISM	3	Suitability	3	7	9	7	9	9	9	7	6	ND
		SUB ACCOUNT SCORE					7.0	9.0	7.0	9.0	9.0	7.0		
		HEALTH AND SAFETY	5	Protection During Reclamation (Work Protection Post Reclamation (Public))	5	5	3	7	7	3	3	5	20	D
							5	5	5	5	7	9	7	20
		SUB ACCOUNT SCORE					4.0	6.0	6.0	5.0	6.0	6.0		
		TRADITIONAL/CULTURAL	5	Usability	5	5	5	5	5	7	9	7	20	D
		SUB ACCOUNT SCORE					5.0	5.0	5.0	7.0	9.0	7.0		
		COMMUNITY INFRASTRUCTURE	3	Condition of Utilities (Water System)	3	9	5	5	9	9	9	7	12	D
		SUB ACCOUNT SCORE					9.0	5.0	5.0	9.0	9.0	7.0		
		COMPLETION PERIOD	3	Time to Complete Reclamation	3	5	7	7	4	2	6	6	15	D
		SUB ACCOUNT SCORE					5.0	7.0	7.0	4.0	2.0	6.0		
		MINERAL DEVELOPMENT POTENTIAL	3	Mineral Development Potential	3	5	7	7	3	3	5	5	12	D
		SUB ACCOUNT SCORE					5.0	7.0	7.0	3.0	3.0	5.0		
		FUTURE BURDEN ON SOCIETY	5	Long Term Management Requirement	5	7	9	7	9	9	9	7	10	D
		SUB ACCOUNT SCORE					7.0	9.0	7.0	9.0	9.0	7.0		
		EMPLOYMENT OPPORTUNITIES (Recla)	5	Short Term Local Employment Value	5	4	7	5	5	9	9	7	16	D
2	7					5	7	5	5	7	4	ND		
SUB ACCOUNT SCORE					7.0	5.0	5.7	7.7	7.7	7.0				
ACCOUNT SCORE						6.0	6.1	6.1	7.0	7.5	6.8			
MULTIPLE ACCOUNT SCORE						6.9	6.9	6.8	7.1	7.3	7.3			