		Pre-Mitigation								P	ost Mitigati	ion		Priority Factor Criteria						
Impact	Phase	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Pre-mitigation ER	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Post-mitigation ER		Cumulative Impact	Irreplaceable loss	Priority Factor	Final score
Impacts on Visual Environment and Sense of Place	Construction	-1	3	2	2	2	3	-6,75	-1	3	2	3	3 2	3	-7,5	Medium	1	1	1,00	-7,5
Impacts on Visual Environment and Sense of Place	Operation	-1	4	4	3	4	4	-15	-1	4	4	3	4	4	-15	High	2	1	1,13	-16,875
Impacts on Visual Environment and Sense of Place	Rehab and closure	-1		2	2	3	3	-8,25	-1	3	2	2	3	2	-5	Medium	2	1	1,13	-5,625
Increase in air quality impacts due to construction of the TSF Increase in air quality impacts due to the operation of Valley TSF	Construction	-1 -1	J	2	3	2	4	-10	-1		2	3	2	3	-6,75	Medium	1	1	1,00	-6,75
increase in air quality impacts due to the operation or valley 15F	Operation	-1	3	4	4	4	3	-11,25	-1	3	4	2	3	3	-9	Medium	1	1	1,00	-9
Increase in air quality impacts due to decommissioning and closure	Rehab and closure	1	2	2	2	2	4	10	1	2	2	2	2	2	-6,75	Medium	1		1.00	-6,75
Disturbance / destruction of sites of heritage significance	Construction	-1	2	4	3	5	3	-10.5	-1	1	5	1	2	1	-0,75	Medium	1	1	1,00	-2.25
Disturbance / destruction of palaeontological resources	Construction	-1	1	5	4	5	4	-10,5	1	1	5	2	5	2	6,5	Medium	1	1	1,00	6,5
Impact on livelihoods	Construction	-1	3	4	5	4	5	-20	-1	2	2	4	3	4	-11	High	3	3	1,50	
Impact on livelihoods	Operation	-1	3	4	5	3	5	-18.75	-1	3	4	4	4	4	-15	High	3	3	1,50	
Impact of community expectations and social licence to operate	Construction	-1	4	4	4	3	5	-18,75	-1	3	3	3	3	4	-12	High	3	2	1,38	
Impact of community expectations and social licence to operate	Operation	-1	3	4	4	3	4	-14	-1	2	2	3	3	4	-10	High	2	2	1,25	-12,5
Impact on health and wellbeing	Construction	-1	2	2	3	3	5	-12,5	-1	2	2	3	3	4	-10	High	2	1	1,13	-11,25
Impact on health and wellbeing	Operation	-1	2	3	5	4	5	-17,5	-1	2	2	3	3	4	-10	High	2	1	1,13	-11,25
Impact on health and wellbeing	Decommissioning	-1	2	3	5	3	5	-16,25	-1	2	2	4	3	4	-11	High	2	1	1,13	-12,375
Economic impacts from social perspective	Construction	1	3	2	4	2	4	11	1	3	3	4	2	4	12	High	2	. 1	1,13	
Economic impacts from social perspective	Operation	1	3	3	4	2	4	12	1	2	2	3	3 2	3	6,75	High	3	3	1,50	
Increase in social pathologies	Construction	-1	Ŭ	2	4	3	4	-12	-1	3	3	4	3	4	-13	High	2	1	1,13	-14,625
Noise impacts Noise impacts	Construction	-1		1	2	1	2	-2,5	-1		1	1	1	2	-2	Medium	1	1	1,00	-2
Noise impacts  Noise impacts	Operation	-1		1	2	1	2	-2,5	-1	1	1	1	1	2	-2	Medium	1	1	1,00	-2
Noise impacts	Decommissioning	-1	1	1	2	1	2	-2,5	-1	1	1	1	1	2	-2	Medium	1	1	1,00	-2
Exhalation and dispersion of radon gas to the atmosphere during the	Rehab and closure	-1	1	1	2		2	-2,5	-1	1	1	1	1	2	-2	Medium	1	- '	1,00	-2
operational phase of the Projects	Operation	-1	2	5	1	3	2	-5,5	-1	2	5	1	3	1	-2,75	Medium	1	1	1,00	-2,75
Emission and dispersion of particulate matter that contains	<u> </u>			, J		3		-0,0							-2,73	culum		· ·	1,00	-2,73
radionuclides to the atmosphere during the operational phase	Operation	-1	2	5	1	2	2	-5	-1	2	5	1	2	1	-2.5	Medium	1	1	1,00	-2,5
Implementation of the NNR-approved decommissioning plan	Rehab and closure	1	2	5	4	5	4	16	1	2	5	4	5	4	16	Medium	1	1	1,00	16
Reclamation of exisating Harmony TSFs	Operation	1	4	- 5	5	5	4	19	1	4	5	5	5	5	23,75	Medium	3	1		0
Exhalation, emission and dispersion of radon gas and particulate																				
matter that contains radionuclides during the post-closure phase	Rehab and closure	-1	2	5	1	2	2	-5	-1	2	5	1	2	1	-2,5	Medium	1	1	1,00	-2,5
Leaching and migration of radionuclides from the TSF during the																				
post-closure phase	Rehab and closure	-1	3	5	1	3	2	-6	-1	3	5	1	3	2	-6	Medium	1	1	1,00	-6
Destruction, further loss and fragmentation of the of habitats,	0			_				45				,				Mandiages	0		1.25	-11.25
ecosystems and vegetation community; Introduction of alien and invasive species, especially plants;	Construction	-1	3	5	4	3	- 4	-15 -9.75	-1 -1	3	3	3	3	3	-9	Medium Medium	2	2	1,25	-11,25 -6,25
Displacement of the indigenous faunal community (incl bird and	Construction	-1	3	4	3	3	3	-9,75	-1		3	3	2		-5	Medium	2		1,20	-0,25
bats) due to habitat loss, direct mortalities, and disturbance (road																				
collisions, noise, dust, light, vibration, and poaching).	Construction	-1	3	5	5	4	5	-21,25	-1	3	5	4	3	5	-18,75	Medium	2	3	1,38	-25,78125
Potential leaks, discharges, pollutant from machinery and storage																				
leaching into the surrounding environment.	Construction	-1	3	3	3	3	3	-9	-1	3	3	1	3	2	-5	Medium	2	. 2	1,25	-6,25
Continued encroachment of an indigenous vegetation community by alien invasive plant species as well as erosion due to disturbed soils								-9.75												0.075
alleri ilivasive piant species as well as erosion due to disturbed soils	Operation	-1	3	4	3	3	3	-9,75	-1	2	3	3	3	2	-5,5	Medium	2	2	1,25	-6,875
Continued displacement and fragmentation of the faunal community																				
(including threatened or protected species) due to ongoing																				
anthropogenic disturbances (noise, dust and vibrations) and habitat																				
degradation/loss (litter, road mortalities and/or poaching).	Operation	-1	3	5	4	3	4	-15	-1	3	5	4	2	4	-14	Medium	2	3	1,38	-19,25
Potential leaks, discharges, pollutant from the TSF spreading into																				
the surrounding environment.	Operation	-1	2	3	4	2	4	-11	-1	2	3	3	2	4	-10	Medium	2	2	1,25	-12,5
Loss of land capability, Soil compaction, Soil erosion, Land	Dianning		_	_			_	-10,5		١			l .			1			1,00	
degradation, Nutrient and water storage  Loss of land capability, Soil compaction, Soil erosion, Land	Planning	-1	3	3	4	4	3	-10,5	-1	1	1	1	1	1	-1	Low	1	<u> </u>	1,00	-1
degradation, Nutrient and water storage	Construction	-1	3	4	1	3	1	-14	-1	2	3	3	3	3	-8.25	High	2		1.38	-11.34375
Loss of land capability, Soil compaction, Soil erosion, Land	CONTRA GUAUTI		3	+ 4	4	3	4	-14			3	,	3	3	=0,25	riigii		3	1,30	-11,04075
degradation, Nutrient and water storage	Operation	-1	3	3	3	3	3	-9	-1	2	3	2	3	2	-5	Medium	2	3	1,38	-6,875
Loss of land capability, Soil compaction, Soil erosion, Land	i i																		,,,,,	.,,,,,,
degradation, Nutrient and water storage	Decommissioning	-1	2	2	2	3	3	-6,75	-1	2	2	1	3	2	-4	Low	2	2	1,25	-5
Loss of land capability, Soil compaction, Soil erosion, Land																				
degradation, Nutrient and water storage	Rehab and closure	-1	2	2	2	2	2	-4	-1	2	2	1	2	1	-1,75	Low	1	2	1,13	-1,96875
Direct loss, disturbance and degradation of wetlands.	Construction	-1	2	1	5	3	4	-11	-1	2	1	4	3	3	-7,5	High	2	2	1,25	-9,375
Increased bare surfaces, runoff and potential for erosion	Construction	-1	2	1	3	3	3	-6,75	-1	2	1	2	3	3	-6	High	2	. 2	1,25	-7,5
Degradation of wetland vegetation and the introduction and spread of alien and invasive vegetation	Construction	4	2	4	4		4	40	4	2				2	-6.75	High	2		1 25	-8.4375
Increased sediment loads to downstream reaches	Construction	-1	2	1	4	3	4	-6,75	-1 -1	2	1	3	3	3	-0,75	High	2	2	1,25	-8,4375 -7.5
Contamination of wetlands with hydrocarbons due to machinery	CONSTRUCTION				3	3	3	-6,75					3	3	-0	riigii			1,20	-1,5
leaks and eutrophication of wetland systems with human sewerage	1																			
and other waste.	Construction	-1	2	1	3	3	2	-4,5	-1	2	1	2	3	2	-4	High	2	2	1,25	-5
Disruption of wetland soil profile and alteration of hydrological																				
regime	Construction	-1	2	1	3	3	3	-6,75	-1	2	1	2	3	3	-6	High	2	. 2	1,25	-7,5
Siltation of water resources	Operation	-1	2	4	2	3	3	-8,25	-1	2	4	2	3	3	-8,25	High	2	2	1,25	-10,3125
Degradation of wetland vegetation and proliferation of alien and	D		_			_				_		_			0.75	1.6-6				0.4075
invasive species	Decommissioning	-1	2	1	4	3	4	-10	-1	2	1	3	3	3	-6,75	High	2	2	1,25	-8,4375

Disruption of wetland soil profile, hydrological regime and increased																				
sediment loads	Decommissioning	-	1 :	2 1	3	3	3	-6,75	-1	2	1	2	3	3	-6	High	2	2	1,25	-7,5
Groundwater contamination	Operation		1	3	3	3 4	1	-12	-1	2	2	3	3	3 4	-10	Medium		2 2	1,25	-12,5
Cumulative groundwater contamination	Operation	-	1 :	3 4	3	3 4	1	-13	-1	2	3	3	3	3 4	-11	Medium	2	2 2	1,25	-13,75
Groundwater contamination	Decommissioning	-	1 :	3 3	3	3 4	1	-12	-1	2	2	2	3	3 3	-6,75	Medium	2	2 2	1,25	-8,4375
Cumulative groundwater contamination	Decommissioning	-	1 :	3 4	3	3 4	1	-13	-1	2	2	2	3	3 3	-6,75	Medium	2	2 2	1,25	-8,4375
Soil Erosion	Construction	-	1 .	4 4	3	3 4	1	-14	-1	1	2	2	2	2 3	-5,25	Medium	2	2 1	1,13	-5,90625
Soil Erosion	Operation	-	1	3 4	2	2 4	1	-11	-1	1	2	2	2	2 3	-5,25	Medium	2	2 2	1,25	-6,5625
	Construction	-	1 .	4 2	3	5 4	1	-14	-1	3	2	1	3	3 2	-4,5	Medium	2	2 1	1,13	-5,0625
Pollutants Entering the Surface Water Environment	Operation	-	1	5 4	5	5 3	3	-14,25	-1	5	2	5	ŧ	5 2	-8,5	Medium	2	2 3	1,38	-11,6875
	Construction, operation,																			
Decrease in Runoff	decomissioning	_	1 .	4 4	2	5 5	5	-18,75	-1	4	4	2	5	5 5	-18,75	Medium		2 1	1,13	-21,09375
	Rehab and closure	-	1	4 4	2	5 5	5	-18,75	-1	1	1	1	1	1 5	-5	Medium		2 1	1,13	-5,625
flood Risk	All phases	-	1 .	4 1	5	5 1	1	-3,75	-1	4	1	5		5 1	-3,75	Medium		1 3	1,25	-4,6875