

SIGNIFICANCE RATING SCALE

Rating	Description
5	VERY HIGH Of the highest order possible within the bounds of impacts which could occur. In the case of adverse impacts: there is no possible mitigation and/or remedial activity which could offset the impact. In the case of beneficial impacts, there is no real alternative to achieving this benefit.
4	HIGH Impact is of substantial order within the bounds of impacts, which could occur. In the case of adverse impacts: mitigation and/or remedial activity is feasible but difficult, expensive, time-consuming or some combination of these. In the case of beneficial impacts, other means of achieving this benefit are feasible but they are more difficult, expensive, time-consuming or some combination of these.
3	MODERATE Impact is real but not substantial in relation to other impacts, which might take effect within the bounds of those which could occur. In the case of adverse impacts: mitigation and/or remedial activity are both feasible and fairly easily possible. In the case of beneficial impacts: other means of achieving this benefit are about equal in time, cost, effort, etc.
2	LOW Impact is of a low order and therefore likely to have little real effect. In the case of adverse impacts: mitigation and/or remedial activity is either easily achieved or little will be required, or both. In the case of beneficial impacts, alternative means for achieving this benefit are likely to be easier, cheaper, more effective, less time consuming, or some combination of these.
1	VERY LOW Impact is negligible within the bounds of impacts which could occur. In the case of adverse impacts, almost no mitigation and/or remedial activity is needed, and any minor steps which might be needed are easy, cheap, and simple. In the case of beneficial impacts, alternative means are almost all likely to be better, in one or a number of ways, than this means of achieving the benefit. Three additional categories must also be used where relevant. They are in addition to the category represented on the scale, and if used, will replace the scale.
0	NO IMPACT There is no impact at all - not even a very low impact on a party or system.

Impact Risk = (SIGNIFICANCE + Spatial + Temporal) / 3 X Probability / 5

Rating	Impact class	Description
0.1 – 1.0	1	Very Low
1.1 – 2.0	2	Low
2.1 – 3.0	3	Moderate
3.1 – 4.0	4	High
4.1 – 5.0	5	Very High

SPATIAL RATING SCALE

Rating	Description
5	Global/National The maximum extent of any impact.
4	Regional/Provincial The spatial scale is moderate within the bounds of impacts possible, and will be felt at a regional scale (District Municipality to Provincial Level).
3	Local The impact will affect an area up to 5 km from the proposed route corridor.
2	Study Area The impact will affect a route corridor not exceeding the boundary of the corridor.
1	Isolated Sites / proposed site The impact will affect an area no bigger than the servitude.

TEMPORAL RATING SCALE (DURATION)

Rating	Description
1	Incidental The impact will be limited to isolated incidences that are expected to occur very sporadically.
2	Short-term The environmental impact identified will operate for the duration of the construction phase or a period of less than 5 years, whichever is the greater.
3	Medium term The environmental impact identified will operate for the duration of life of the line.
4	Long term The environmental impact identified will operate beyond the life of operation.
5	Permanent The environmental impact will be permanent.

DEGREE OF PROBABILITY

Rating	Description
1	Practically impossible
2	Unlikely
3	Could happen
4	Very Likely
5	It's going to happen / has occurred

DEGREE OF CERTAINTY

Rating	Description
Definite	More than 90% sure of a particular fact.
Probable	Between 70 and 90% sure of a particular fact, or of the likelihood of that impact occurring.
Possible	Between 40 and 70% sure of a particular fact or of the likelihood of an impact occurring.
Unsure	Less than 40% sure of a particular fact or the likelihood of an impact occurring.
Can't know	The consultant believes an assessment is not possible even with additional research.

ALTERNATIVE:

ENVIRONMENTAL ELEMENT	Site 1							Site 3A + 3B						"No-Go"								
	Risidual Direction of Impact	Residual Degree of Certainty	Project Impact - Unmitigated	Project Impact - Mitigated	Status Quo Baseline Impact	Cumulative Impact	Residual Impact	Risidual Direction of Impact	Residual Degree of Certainty	Project Impact - Unmitigated	Project Impact - Mitigated	Status Quo Baseline Impact	Cumulative Impact	Residual Impact	Risidual Direction of Impact	Residual Degree of Certainty	Project Impact - Unmitigated	Project Impact - Unmitigated	Status Quo Baseline Impact	Cumulative Impact	Residual Impact	
CODE:																						
OPERATIONAL PHASE																						
G-2	Geology	Negative	Probable	0	0	3.7	3.7	3.7	Negative	Probable	0	0	3.7	3.7	3.7			0	0	3.7	3.7	3.7
				NO	NO	HIGH	HIGH	HIGH			NO	NO	HIGH	HIGH	HIGH			NO	NO	HIGH	HIGH	HIGH
T-2	Topography	Negative	Definite	0	0	3.7	3.7	3.7	Negative	Definite	0	0	3.7	4	4			0	0	3.7	3.7	3.7
				NO	NO	HIGH	HIGH	HIGH			NO	NO	HIGH	HIGH	HIGH			NO	NO	HIGH	HIGH	HIGH
SLC-2	Soil and Land Capability	Negative	Probable	1.8	1	3	3.7	3.3	Negative	Probable	2	1.2	3	3.7	3.7			0	0	3	3	3
				LOW	VLOW	MOD	HIGH	HIGH			LOW	LOW	MOD	HIGH	HIGH			NO	NO	MOD	MOD	MOD
SWW-2	Surface Water and Wetlands	Negative	Probable	1.9	0.8	3.7	3.7	2.7	Negative	Probable	2.4	1	3.7	3.7	3.7			0	0	3.7	3.7	3.7
				LOW	VLOW	HIGH	HIGH	MOD			MOD	VLOW	HIGH	HIGH	HIGH			NO	NO	HIGH	HIGH	HIGH
GW-2	Groundwater	Negative	Probable	2.7	0.8	3	3.3	3	Negative	Probable	2.7	0.8	3	3.3	3			0	0	3	3	3
				MOD	VLOW	MOD	HIGH	MOD			MOD	VLOW	MOD	HIGH	MOD			NO	NO	MOD	MOD	MOD
TE-2	Terrestrial Ecology <i>(The direction of the project impact is positive, although the residual impact remains negative)</i>	Negative	Definite	1.4	2.7	3	3	2.7	Negative	Definite	1.4	2.7	3	3.3	3			0	0	3	3	3
				LOW	MOD	MOD	MOD	MOD			LOW	MOD	MOD	HIGH	MOD			NO	NO	MOD	MOD	MOD
AF-2	Avifauna	Negative	Definite	0	0	3	3	3	Negative	Definite	0	0	3	3	3			0	0	3	3	3
				NO	NO	MOD	MOD	MOD			NO	NO	MOD	MOD	MOD			NO	NO	MOD	MOD	MOD
AQ-2	Air Quality	Negative	Possible	1.3	0.8	3.3	3.3	3.3	Negative	Possible	1.2	0.7	3.3	3.3	3.3			0	0	3.3	3.3	3.3
				LOW	VLOW	HIGH	HIGH	HIGH			LOW	VLOW	HIGH	HIGH	HIGH			NO	NO	HIGH	HIGH	HIGH
N-2	Noise	Negative	Probable	0	0	2.7	2.3	2.3	Negative	Probable	0	0	2.7	2.3	2.3			0	0	2.7	2.7	2.7
				NO	NO	MOD	MOD	MOD			NO	NO	MOD	MOD	MOD			NO	NO	MOD	MOD	MOD
SOC-2	Social Environment	Positive	Probable	0.3	0.6	2.7	2.7	2.7	Positive	Probable	0.6	0.9	2.7	2.7	2.7	Negative	Definite	0	0	2.7	4.7	4.7
				VLOW	VLOW	MOD	MOD	MOD			VLOW	VLOW	MOD	MOD	MOD			NO	NO	MOD	VHIGH	VHIGH
EC-2	Economic	Positive	Definite	0	0	2.7	3	3	Positive	Definite	0	0	2.7	2.4	2.4	Negative	Definite	0	0	2.7	4.7	4.7
				NO	NO	MOD	MOD	MOD			NO	NO	MOD	MOD	MOD			NO	NO	MOD	VHIGH	VHIGH
INF-2	Infrastructure and Traffic	Negative	Definite	0	0	2.7	4.3	2.7	Negative	Definite	0	0	2.7	4.3	2.7			0	0	2.7	2.7	2.7
				NO	NO	MOD	VHIGH	MOD			NO	NO	MOD	VHIGH	MOD			NO	NO	MOD	MOD	MOD
V-2	Visual	Negative	Definite	2.3	2	3.7	3.7	3.7	Negative	Definite	2.3	2	3.7	3.7	3.7			0	0	3.7	3.7	3.7
				MOD	LOW	HIGH	HIGH	HIGH			MOD	LOW	HIGH	HIGH	HIGH			NO	NO	HIGH	HIGH	HIGH
ArCH-2	Archaeology, Palaeontology, Cultural Heritage	No Impact	Definite	0	0	0	0	0	No Impact	Definite	0	0	0	0	0			0	0	0	0	0
				NO	NO	NO	NO	NO			NO	NO	NO	NO	NO			NO	NO	NO	NO	NO

Rated By: Warren Kok

Reviewed By:

ALTERNATIVES:

IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"									
			Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk				
G-2	<i>Geology</i>																							
OPERATIONAL PHASE			5						5						5									
Impact 1	NO ADDITIONAL IMPACT	No Impact	1	0					0	0					0	0				0				
				NO					NO	NO					NO	NO				NO	NO			
Mitigation Measures:	<i>None Required</i>			0					0	0					0	0				0	0			
				NO					NO	NO					NO	NO				NO	NO			
COMBINED WEIGHTED RATING	BEFORE MITIGATION	No Impact	Definite	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
				NO	#N/A	#N/A	#N/A	NO	NO	#N/A	#N/A	#N/A	NO	NO	#N/A	#N/A	#N/A	NO	NO	#N/A	NO			
	AFTER MITIGATION	No Impact	Definite	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	<i>(If mitigation is effective / possible this rating wil decrease)</i>			NO	#N/A	#N/A	#N/A	NO	NO	#N/A	#N/A	#N/A	NO	NO	#N/A	#N/A	#N/A	NO	NO	#N/A	NO			
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Negative	Probable	3	3	5	5	3.7	3	3	5	5	3.7	3	3	5	5	3.7	3	3	5	5	3.7	
				MOD	LOCAL	PERM	OCCUR	HIGH	MOD	LOCAL	PERM	OCCUR	HIGH	MOD	LOCAL	PERM	OCCUR	HIGH	MOD	LOCAL	PERM	OCCUR	HIGH	MOD
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, BEFORE MITIGATION	Negative	Probable	3	3	5	5	3.7	3	3	5	5	3.7	3	3	5	5	3.7	3	3	5	5	3.7	
				MOD	LOCAL	PERM	OCCUR	HIGH	MOD	LOCAL	PERM	OCCUR	HIGH	MOD	LOCAL	PERM	OCCUR	HIGH	MOD	LOCAL	PERM	OCCUR	HIGH	MOD
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, AFTER MITIGATION	Negative	Probable	3	3	5	5	3.7	3	3	5	5	3.7	3	3	5	5	3.7	3	3	5	5	3.7	
				MOD	LOCAL	PERM	OCCUR	HIGH	MOD	LOCAL	PERM	OCCUR	HIGH	MOD	LOCAL	PERM	OCCUR	HIGH	MOD	LOCAL	PERM	OCCUR	HIGH	MOD

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ALTERNATIVES:

IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"											
			Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk						
T-2	Topography																									
	OPERATIONAL PHASE		5							5																
Impact 1	NO ADDITIONAL IMPACT	No Impact	1	0					0	1	0					0	1	0					0			
				NO					NO				NO					NO							NO	
Mitigation Measures:	None Required			0					0				0					0							0	
				NO					NO				NO					NO							NO	
COMBINED WEIGHTED RATING	BEFORE MITIGATION	No Impact	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0			
				NO	#N/A	#N/A	#N/A	#N/A	NO				NO	#N/A	#N/A	#N/A		#N/A	NO			NO	#N/A	#N/A	#N/A	NO
	AFTER MITIGATION	No Impact		1	0	0	0	0	0		0	1	0	0	0	0		0	0	1	0	0	0	0	0	0
	(If mitigation is effective / possible this rating wil decrease)				NO	#N/A	#N/A	#N/A	#N/A		NO				NO	#N/A		#N/A	#N/A		#N/A	NO			NO	#N/A
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Negative	1	3	3	5	5	3.7	1	3	3	5	5	3.7	1	3	3	5	5	3.7	1	3	3	5	5	3.7
				MOD	LOCAL	PERM	OCCUR	HIGH		MOD	LOCAL	PERM	OCCUR	HIGH		MOD	LOCAL	PERM	OCCUR	HIGH						
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, BEFORE MITIGATION	Negative	1	3	3	5	5	3.7	1	4	3	5	5	4	1	3	3	5	5	3.7	1	3	3	5	5	3.7
				MOD	LOCAL	PERM	OCCUR	HIGH		HIGH	LOCAL	PERM	OCCUR	HIGH		MOD	LOCAL	PERM	OCCUR	HIGH						
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, AFTER MITIGATION	Negative	1	3	3	5	5	3.7	1	4	3	5	5	4	1	3	3	5	5	3.7	1	3	3	5	5	3.7
				MOD	LOCAL	PERM	OCCUR	HIGH		HIGH	LOCAL	PERM	OCCUR	HIGH		MOD	LOCAL	PERM	OCCUR	HIGH						

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ALTERNATIVES:

IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"							
			Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk		
SLC-2	<i>Soil and Land Capability</i>																					
	OPERATIONAL PHASE		5							5												
Impact 1	Pollution of soils - leachate	Negative	Definite	5	4	1	5	4	2.7	5	5	1	5	4	2.9	1	0			0		
Mitigation Measures:	<i>Install leachate collection system</i>				HIGH	ISO	PERM	VLIKE	MOD		VHIGH	ISO	PERM	VLIKE	MOD		NO					NO
					2	1	5	3	1.6		3	1	5	3	1.8		0					0
					LOW	ISO	PERM	COULD	LOW		MOD	ISO	PERM	COULD	LOW	NO			NO			
Impact 2	Erosion of soils	Negative	Definite	3	3	1	5	5	3	3	4	1	5	5	3.3	1	0			0		
Mitigation Measures:	<i>Place soil stockpiles out of water courses, Revegetate Stockpiles, Stormwater Management</i>				MOD	ISO	PERM	OCCUR	MOD		HIGH	ISO	PERM	OCCUR	HIGH		NO					NO
					2	1	5	3	1.6		3	1	5	3	1.8		0					0
					LOW	ISO	PERM	COULD	LOW		MOD	ISO	PERM	COULD	LOW	NO			NO			
COMBINED WEIGHTED RATING	BEFORE MITIGATION	Negative	Definite		2.9	0.8	4	3.5	1.8		3.7	0.8	4	3.5	2		0	0	0	0		
	AFTER MITIGATION <i>(If mitigation is effective / possible this rating wil decrease)</i>				MOD	ISO	LONG	VLIKE	LOW		HIGH	ISO	LONG	VLIKE	LOW		NO	#N/A	#N/A	#N/A	#N/A	NO
					1.6	0.8	4	2.4	1		2.4	0.8	4	2.4	1.2		0	0	0	0		
					LOW	ISO	LONG	COULD	VLOW		MOD	ISO	LONG	COULD	LOW	NO	#N/A	#N/A	#N/A	NO		
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Negative	Probable		2	2	5	5	3		2	2	5	5	3		2	2	5	5		
					LOW	STUDY	PERM	OCCUR	MOD		LOW	STUDY	PERM	OCCUR	MOD		LOW	STUDY	PERM	OCCUR		
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, BEFORE MITIGATION	Negative	Probable		4	2	5	5	3.7		4	2	5	5	3.7		2	2	5	5		
					HIGH	STUDY	PERM	OCCUR	HIGH		HIGH	STUDY	PERM	OCCUR	HIGH		LOW	STUDY	PERM	OCCUR		
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, AFTER MITIGATION	Negative	Probable		3	2	5	5	3.3		4	2	5	5	3.7		2	2	5	5		
					MOD	STUDY	PERM	OCCUR	HIGH		HIGH	STUDY	PERM	OCCUR	HIGH		LOW	STUDY	PERM	OCCUR		

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ALTERNATIVES:

IMPACT DESCRIPTION		Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"						
				Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	
GW-2	Groundwater																					
OPERATIONAL PHASE				5						5												
Impact 1	Decreased water quality - Leachate (heavy metals)	Negative	Definite	5	3	3	4	4	2.7	5	3	3	4	4	2.7	1	0				0	
					MOD	LOCAL	LONG	VLIKE	MOD		MOD	LOCAL	LONG	VLIKE	MOD		NO					NO
Mitigation Measures:	Install leachate collection, Install Barrier System				2	1	1	3	0.8		0.8	2	1	1	3		0					0
					LOW	ISO	INCID	COULD	VLOW		LOW	ISO	INCID	COULD	VLOW		NO				NO	
COMBINED WEIGHTED RATING	BEFORE MITIGATION	Negative	Definite		3	3	4	4	2.7		3	3	4	4	2.7		0	0	0	0	0	
					MOD	LOCAL	LONG	VLIKE	MOD		MOD	LOCAL	LONG	VLIKE	MOD		NO	#N/A	#N/A	#N/A	#N/A	NO
	AFTER MITIGATION <i>(If mitigation is effective / possible this rating wil decrease)</i>	Negative	Definite		2	1	1	3	0.8		2	1	1	3	0.8		0	0	0	0	0	
					LOW	ISO	INCID	COULD	VLOW		VLOW	LOW	ISO	INCID	COULD		VLOW	NO	#N/A	#N/A	#N/A	#N/A
STATUS QUO	INITIAL IMPACTS TO ENVIRONMENT	Negative	Probable		2	3	4	5	3		2	3	4	5	3		2	3	4	5	3	
						LOW	LOCAL	LONG	OCCUR		MOD	LOW	LOCAL	LONG	OCCUR		MOD	LOW	LOCAL	LONG	OCCUR	MOD
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, BEFORE MITIGATION	Negative	Probable		3	3	4	5	3.3		3	3	4	5	3.3		2	3	4	5	3	
						MOD	LOCAL	LONG	OCCUR		HIGH	MOD	LOCAL	LONG	OCCUR		HIGH	LOW	LOCAL	LONG	OCCUR	MOD
					2	3	4	5	3		2	3	4	5	3		2	3	4	5	3	
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, AFTER MITIGATION	Negative	Probable		2	3	4	5	3		2	3	4	5	3		2	3	4	5	3	
						LOW	LOCAL	LONG	OCCUR		MOD	LOW	LOCAL	LONG	OCCUR		MOD	LOW	LOCAL	LONG	OCCUR	MOD

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IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"										
			Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk					
AF-2	Avifauna																								
	OPERATIONAL PHASE		5							5															
Impact 1	NO ADDITIONAL IMPACT	No Additional Impact	1	0					0	1	0					0	1	0				0			
				NO					NO				NO						NO						NO
Mitigation Measures:	None Required			0					0				0						0						0
				NO					NO				NO						NO						
COMBINED WEIGHTED RATING	BEFORE MITIGATION	Negative	Definite	0	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0			
				NO	#N/A	#N/A	#N/A	#N/A	NO			NO	#N/A	#N/A	#N/A	#N/A		NO		NO	#N/A	#N/A	#N/A	#N/A	NO
	AFTER MITIGATION	Negative	Definite	0	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0			
	<i>(If mitigation is effective / possible this rating wil decrease)</i>				NO	#N/A	#N/A	#N/A	#N/A		NO		NO	#N/A	#N/A	#N/A		#N/A	NO		NO	#N/A	#N/A	#N/A	#N/A
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Negative	Definite	3	2	4	5	3			3	2	4	5	3			3	2	4	5	3			
				MOD	STUDY	LONG	OCCUR	MOD			MOD	STUDY	LONG	OCCUR	MOD			MOD	STUDY	LONG	OCCUR	MOD			
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, BEFORE MITIGATION	Negative	Definite	3	2	4	5	3			3	2	4	5	3			3	2	4	5	3			
				MOD	STUDY	LONG	OCCUR	MOD			MOD	STUDY	LONG	OCCUR	MOD			MOD	STUDY	LONG	OCCUR	MOD			
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, AFTER MITIGATION	Negative	Definite	3	2	4	5	3			3	2	4	5	3			3	2	4	5	3			
				MOD	STUDY	LONG	OCCUR	MOD			MOD	STUDY	LONG	OCCUR	MOD			MOD	STUDY	LONG	OCCUR	MOD			

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IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"					
			Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk
N-2	Noise																			
OPERATIONAL PHASE			5						5						5					
Impact 1	Increased ambient noise levels	Negative	Probable	1	0				0					0					0	
Mitigation Measures:	6am - 6pm construction time, No Construction on Sundays				NO				NO					NO					NO	
COMBINED WEIGHTED RATING	BEFORE MITIGATION	Negative	Probable		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	AFTER MITIGATION <i>(If mitigation is effective / possible this rating wil decrease)</i>	Negative	Probable		NO	#N/A	#N/A	#N/A	NO	NO	#N/A	#N/A	#N/A	NO	NO	#N/A	#N/A	#N/A	NO	
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Negative	Probable		2	3	3	5	2.7	2	3	3	5	2.7	2	3	3	5	2.7	
					LOW	LOCAL	MED	OCCUR	MOD	LOW	LOCAL	MED	OCCUR	MOD	LOW	LOCAL	MED	OCCUR	MOD	
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, BEFORE MITIGATION	Negative	Probable		2	2	3	5	2.3	2	2	3	5	2.3	2	3	3	5	2.7	
					LOW	STUDY	MED	OCCUR	MOD	LOW	STUDY	MED	OCCUR	MOD	LOW	LOCAL	MED	OCCUR	MOD	
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, AFTER MITIGATION	Negative	Probable		2	2	3	5	2.3	2	2	3	5	2.3	2	3	3	5	2.7	
					LOW	STUDY	MED	OCCUR	MOD	LOW	STUDY	MED	OCCUR	MOD	LOW	LOCAL	MED	OCCUR	MOD	

Rated By: Warren Kok
 Reviewed By:

ALTERNATIVES:

IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"						
			Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	
SOC-2	<i>Social Environment</i>																				
OPERATIONAL PHASE			5						5						5						
Impact 1	Employment Oportunities - direct and indirect	Positive	Probable	5	1	3	3	2	0.9	5	1	3	3	2	0.9	5	0			0	
Mitigation Measures:	<i>Employ Unemployed Locals</i>				VLOW	LOCAL	MED	UNLIKE	VLOW		VLOW	LOCAL	MED	UNLIKE	VLOW		NO			NO	
					2	3	3	3	1.6		2	3	3	3	1.6		0			0	
					LOW	LOCAL	MED	COULD	LOW		LOW	LOCAL	MED	COULD	LOW		NO			NO	
Impact 2	Less environmental nuisance	Positive	Probable	1	2	3	3	2	1.1	2	3	3	3	3	1.8	1	0			0	
Mitigation Measures:	<i>Maintain - (Complaints register and Feedback, Fines for breaking rules)</i>				LOW	LOCAL	MED	UNLIKE	LOW		MOD	LOCAL	MED	COULD	LOW		NO			NO	
					3	3	3	4	2.4		3	3	3	4	2.4		0			0	
					MOD	LOCAL	MED	VLIKE	MOD		MOD	LOCAL	MED	VLIKE	MOD		NO			NO	
COMBINED WEIGHTED RATING	BEFORE MITIGATION	Positive	Probable		0.7	1.8	1.8	1.2	0.3		1.1	2.1	2.1	1.6	0.6		0	0	0	0	
	AFTER MITIGATION <i>(If mitigation is effective / possible this rating wil decrease)</i>	Positive	Probable		VLOW	STUDY	SHORT	UNLIKE	VLOW		LOW	LOCAL	MED	UNLIKE	VLOW		NO	#N/A	#N/A	#N/A	NO
					1.3	1.8	1.8	1.9	0.6		1.6	2.1	2.1	2.3	0.9		0	0	0	0	
					LOW	STUDY	SHORT	UNLIKE	VLOW		LOW	LOCAL	MED	COULD	VLOW		NO	#N/A	#N/A	#N/A	NO
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Positive	Probable		2	3	3	5	2.7		2	3	3	5	2.7		2	3	3	5	2.7
					LOW	LOCAL	MED	OCCUR	MOD		LOW	LOCAL	MED	OCCUR	MOD		LOW	LOCAL	MED	OCCUR	MOD
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, BEFORE MITIGATION	Positive	Probable		2	3	3	5	2.7		2	3	3	5	2.7		5	5	4	5	4.7
					LOW	LOCAL	MED	OCCUR	MOD		LOW	LOCAL	MED	OCCUR	MOD		VHIGH	NAT	LONG	OCCUR	VHIGH
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, AFTER MITIGATION	Positive	Probable		2	3	3	5	2.7		2	3	3	5	2.7		5	5	4	5	4.7
					LOW	LOCAL	MED	OCCUR	MOD		LOW	LOCAL	MED	OCCUR	MOD		VHIGH	NAT	LONG	OCCUR	VHIGH

Rated By: Warren Kok
 Reviewed By:

ALTERNATIVES:

IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"								
			Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk			
INF-2	Infrastructure																						
	OPERATIONAL PHASE		5						5						5								
Impact 1	NO ADDITIONAL IMACT	No Impact	5	0				0	1	0				0	1	0				0			
				NO				NO				NO					NO						NO
Mitigation Measures:	None Required.			0				0				0					0						0
				NO				NO				NO					NO						NO
COMBINED WEIGHTED RATING	BEFORE MITIGATION	No Impact	Definite	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0			
				NO	#N/A	#N/A	#N/A	NO			NO	#N/A	#N/A	#N/A		NO		NO	#N/A	#N/A	#N/A	NO	
	AFTER MITIGATION	No Impact	Definite	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0			
	(If mitigation is effective / possible this rating wil decrease)				NO	#N/A	#N/A	#N/A		NO		NO	#N/A	#N/A		#N/A	NO		NO	#N/A	#N/A	#N/A	NO
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Negative	Definite	3	2	3	5	2.7		3	2	3	5	2.7		3	2	3	5	2.7			
				MOD	STUDY	MED	OCCUR	MOD			MOD	STUDY	MED	OCCUR		MOD		MOD	STUDY	MED	OCCUR	MOD	
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, BEFORE MITIGATION	Negative	Definite	5	5	3	5	4.3		5	5	3	5	4.3		3	2	3	5	2.7			
				VHIGH	NAT	MED	OCCUR	VHIGH			VHIGH	NAT	MED	OCCUR		VHIGH		MOD	STUDY	MED	OCCUR	MOD	
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, AFTER MITIGATION	Negative	Definite	3	2	3	5	2.7		3	2	3	5	2.7		3	2	3	5	2.7			
				MOD	STUDY	MED	OCCUR	MOD			MOD	STUDY	MED	OCCUR		MOD		MOD	STUDY	MED	OCCUR	MOD	

Rated By:

Reviewed By:

ALTERNATIVES:

IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"								
			Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk	Weighting	Magnitude	Spatial	Temporal	Probability	Impact Risk			
ArCH-2	<i>Archaeology, Palaeontology, Cultural Heritage</i>																						
OPERATIONAL PHASE			5						5						5								
Impact 1	NO ADDITIONAL IMPACT	No Impact	1	0					0	1	0					0	1	0					0
Mitigation Measures:	<i>Mitigation:</i>			NO					NO		NO					NO		NO					NO
				0					0		0					0		0					0
				NO					NO		NO					NO		NO					NO
COMBINED WEIGHTED RATING	BEFORE MITIGATION	No Impact		0	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0	0
	AFTER MITIGATION <i>(If mitigation is effective / possible this rating wil decrease)</i>	No Impact		NO	#N/A	#N/A	#N/A	#N/A	NO		NO	#N/A	#N/A	#N/A	#N/A	NO		NO	#N/A	#N/A	#N/A	#N/A	NO
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	No Impact		0					0		0					0		0					0
				NO					NO		NO					NO		NO					NO
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, BEFORE MITIGATION	No Impact		0					0		0					0		0					0
				NO					NO		NO					NO		NO					NO
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, AFTER MITIGATION	No Impact		0					0		0					0		0					0
				NO					NO		NO					NO		NO					NO