

GIBB IMPACT ASSESSMENT METHODOLOGY
IMPACT SUMMARY



Impact	Pre-mitigation: Significance	Post-mitigation: Significance
CONSTRUCTION PHASE		
Direct Impacts		
Degradation of soils and soil erosion from excavation of trenches for the laying of the pipeline.	-24	-5
Contamination/Pollution of groundwater from leaks/spillages from hydrocarbons	-12	-10
Contamination/Pollution of surface water from leaks/spillages from hydrocarbons	-12	-10
Destruction and loss of vegetation and habitat as result of site clearance	-10	-3
Noise impact as a result of the use of construction machinery on site and within the residential area	-10	-4
Loss of fauna as a result of site clearance.	-12	-5
Increased job opportunities for unskilled labour	24	36
Increased dust emissions as a result of construction machinery moving material to and from the site	-24	-6
Indirect impacts		
Siltation/Sedimentation of watercourses as a result of excavation of trenches	-12	-5
Impact of improper waste management on site	-12	-5
Potential impact on heritage resources and artefacts as a result of excavation of trenches	-14	-10
Cumulative Impacts		
Increase in alien vegetation	-18	-4
OPERATIONAL PHASE		
Direct Impacts		
Soil erosion as a result of Scouring of the pipeline during testing, maintenance and operation	-24	-5
Increased noise generation during maintenance of the pipeline	-12	-4
Indirect impacts		
Establishment of alien vegetation in areas disturbed during construction	-24	-3
Cumulative Impacts		
None identified		
DECOMMISSIONING PHASE		
Direct Impacts		
Loss of Topsoil	-20	-8
Increased heavy vehicle traffic during site closure and rehabilitation	-8	-3
Increased noise generation from heavy vehicles during site closure and rehabilitation	-16	-3
Vegetation loss from establishment of a material sourcing site	-16	-4
Contamination of soil	-28	-10
Contamination/Pollution of surface water	-48	-10
Contamination/Pollution of groundwater	-48	-10
Job creation	10	8
Indirect Impacts		
Soil Erosion	-28	-8
Loss of vegetation	-24	-4
Siltation/Sedimentation in stormwater pipelines	-24	-3
Contamination of groundwater	-48	-10
Cumulative		
Increase dust emissions	-24	-4
Increase in alien vegetation	-8	-3
Reduced terrestrial functioning	-10	-4
Acceleration of climate change due to loss of vegetation	-20	-7
Increased flooding and runoff on site	-10	-5

Significance	
-49 to -66	Very high - negative
-37 to -48	High - negative
-25 to -36	Moderate - negative
-13 to -24	Low - negative
0 to -12	Very low - negative
0 to 12	Very Low - positive
13 to 24	Low - positive
25 to 36	Moderate - positive
37 to 48	High - positive
49 to 66	Very high - positive