

## 6. Summary of Triple Bottom Line Assessment for the Water Supply Pipeline

A summary of impacts associated with each element of the construction and operation of the effluent pipeline is provided below. Social and Economic affects are considered in Volume 2 of the Draft IIS.

Potential Impact	Impact Rating	Proposed Management	Management Impact	Overall Rating
<b>Land Use and Planning</b>				
Inconsistencies with definition of Public Utility in Beaconsfield Planning Scheme 1986	Minor negative impact	Planning Scheme amendment	Minor positive impact	Insignificant impact
<b>Buildings and Services</b>				
Impacts on existing buildings	Insignificant impact	There are no impacts on existing buildings structures.	Insignificant impact	Insignificant impact
Disruption to major infrastructure and services	Insignificant impact	Avoid major infrastructure and services	Insignificant impact	Insignificant impact
Reallocation of existing water supply	Moderate negative impact	New raw water supply pipeline from Trevallyn Dam	Moderate positive impact	Insignificant impact
Increase in demand for power supply	Insignificant impact	Cogeneration facility as part of the project	Moderate positive impact	Moderate positive impact
Increase in demand for telecommunications	Minor negative impact	Utilise existing capacity in telecommunications network	Insignificant impact	Minor negative impact
Relocation of services	Minor negative impact	Coordinated management with relevant utility/service providers. Minimise disruption times. Optimise timing of works to minimise disruptions	Insignificant impact	Minor negative impact
<b>Topography, Climate and Meteorology</b>				
Topography	Minor negative impact	Preparation of a construction phase Environmental Management Plan	Minor positive impact	Insignificant impact
<b>Air Quality</b>				
Dust generation during earthworks	Minor negative impact	Construction EMP	Minor positive impact	Insignificant impact
Dust generation from access roads	Minor negative impact	Construction EMP	Minor positive impact	Insignificant impact

<b>Potential Impact</b>	<b>Impact Rating</b>	<b>Proposed Management</b>	<b>Management Impact</b>	<b>Overall Rating</b>
Vehicle emissions	Minor negative impact	Construction EMP	Minor positive impact	Insignificant impact
<b>Geology and Soils</b>				
Soil erosion	Minor negative impact	Construction Environmental Management Plan	Minor positive impact	Insignificant impact
	Minor negative impact	Minimise area of disturbance	Minor positive impact	Insignificant impact
	Minor negative impact	Use existing roads and tracks	Minor positive impact	Insignificant impact
	Minor negative impact	Erosion control measures to be installed prior to significant disturbance	Minor positive impact	Insignificant impact
<b>Groundwater and Hydrology</b>				
Modification to flows in Cataract Gorge and Tamar River	Moderate negative impact	Extraction model to utilise Hydro Tasmania's water allocation in other than dam surcharge events	Minor positive impact	Minor negative impact
Interception of shallow groundwater	Minor negative impact	Field investigations as part of detailed design to identify areas of shallow groundwater	Minor positive impact	Insignificant impact
Modification of flows as a result of pipeline waterway crossings	Minor negative impact	Appropriate design for waterway crossings will not modify flows	Minor positive impact	Insignificant impact
Modification to Cataract Gorge and Tamar river flows as a result of pump station construction	Moderate negative impact	Time construction activities with maintenance lowering of Dam water levels	Moderate positive impact	Insignificant impact
Minimise modification to waterways as a result of erosion triggered by construction activities	Minor negative impact	Construction Environmental Management Plan	Minor positive impact	Insignificant impact
<b>Aquatic Ecology</b>				
Modification of flows to Cataract Gorge and Tamar River	Moderate negative impact	Utilisation of existing water allocations from Hydro Tasmania	Minor positive impact	Minor negative impact
Construction impacts within Trevallyn Dam from construction of the pump station	Moderate negative impact	Conduct works during regular maintenance events for the dam	Minor positive impact	Minor negative impact

<b>Potential Impact</b>	<b>Impact Rating</b>	<b>Proposed Management</b>	<b>Management Impact</b>	<b>Overall Rating</b>
Construction impacts from Tamar River crossing	Major negative impact	Utilisation of jet trenching construction methods	Minor positive impact	Moderate negative impact
Minimise impacts to waterways as a result of construction activities	Minor negative impact	Construction Environmental Management Plan	Minor positive impact	Insignificant impact
<b>Terrestrial Flora</b>				
Native Vegetation Loss	Major negative impact	Offsets	Minor positive impact	Moderate negative impact
	Minor negative impact	Construction EMP	Minor positive impact	Insignificant impact
Fragmentation of vegetation	Moderate negative impact	Construction EMP	Minor positive impact	Minor negative impact
Impacts on significant species/communities	Moderate negative impact	Construction EMP	Minor positive impact	Minor negative impact
Introduced pests	Moderate negative impact	Construction EMP	Minor positive impact	Minor negative impact
Erosion and Sedimentation	Minor negative impact	Construction EMP	Minor positive impact	Insignificant impact
Dust impacts on vegetation	Minor negative impact	Construction EMP	Minor positive impact	Insignificant impact
Changes in hydrology	Moderate negative impact	Construction EMP	Minor positive impact	Minor negative impact
<b>Terrestrial Flora</b>				
Habitat Loss	Major negative impact	Offsets	Moderate positive impact	Minor negative impact
	Moderate negative impact	Construction Environmental Management Plan	Minor positive impact	Minor negative impact
Fragmentation of habitat	Moderate negative impact	Construction Environmental Management Plan	Minor positive impact	Minor negative impact
Impacts on significant species/communities	Major negative impact	Construction Environmental Management Plan	Minor positive impact	Moderate negative impact

<b>Potential Impact</b>	<b>Impact Rating</b>	<b>Proposed Management</b>	<b>Management Impact</b>	<b>Overall Rating</b>
Erosion and Sedimentation	Minor negative impact	Construction Environmental Management Plan	Minor positive impact	Insignificant impact
Changes in air quality	Minor negative impact	Construction Environmental Management Plan	Minor positive impact	Insignificant impact
Changes In noise	Minor negative impact	Construction Environmental Management Plan	Minor positive impact	Insignificant impact
Changes in hydrology	Moderate negative impact	Construction Environmental Management Plan	Minor positive impact	Minor negative impact
<b>Reserves and Protected Areas</b>				
Construction impacts on Long Reach Private Sanctuary/Long Reach Conservation Area	Minor negative impact	Construction EMP	Minor positive impact	Insignificant impact
Construction impacts on Trevallyn State Recreation Area	Moderate negative impact	Construction EMP	Minor positive impact	Minor negative impact
Construction impacts on Tamar River Conservation Area	Moderate negative impact	Construction EMP	Minor positive impact	Minor negative impact
<b>Transport Infrastructure, Traffic and Access</b>				
Additional construction traffic and traffic management	Minor negative impact	Construction Traffic Management Plan	Minor positive impact	Insignificant impact
Restricted property access during construction	Minor negative impact	Construction Traffic Management Plan	Minor positive impact	Insignificant impact
Maintenance phase pipeline access	Minor negative impact	Access agreement with landowners	Minor positive impact	Insignificant impact
<b>Waste Management</b>				
Waste minimisation and appropriate disposal	Minor negative impact	Design for waste to be placed in appropriate containers and disposed of appropriately	Minor positive impact	Insignificant impact
Waste management	Minor negative impact	Construction EMP	Minor positive impact	Insignificant impact
<b>Acoustic Environment</b>				
Noise impacts at sensitive receptors	Moderate negative impact	Restricted construction hours	Minor positive impact	Minor negative impact

<b>Potential Impact</b>	<b>Impact Rating</b>	<b>Proposed Management</b>	<b>Management Impact</b>	<b>Overall Rating</b>
	Minor negative impact	Construction EMP	Minor positive impact	Insignificant impact
<b>Visual Amenity</b>				
Visible impact of cleared easement	Moderate negative impact	Minimise clearing and maintain screening	Minor positive impact	Minor negative impact
	Minor negative impact	Construction EMP	Minor positive impact	Insignificant impact
Visible impact of structures	Minor negative impact	Maintain screening, painting and landscaping	Minor positive impact	Insignificant impact
<b>Aboriginal and Historic Heritage</b>				
Potential impacts on Aboriginal heritage sites	Minor negative impact	Cultural Heritage Management Plan	Minor positive impact	Insignificant impact
Potential impacts on historic heritage sites	Minor negative impact	Cultural Heritage Management Plan	Minor positive impact	Insignificant impact
	Minor negative impact	Assess risk to sites after detailed design	Minor positive impact	Insignificant impact