

2026 Sustainability Update

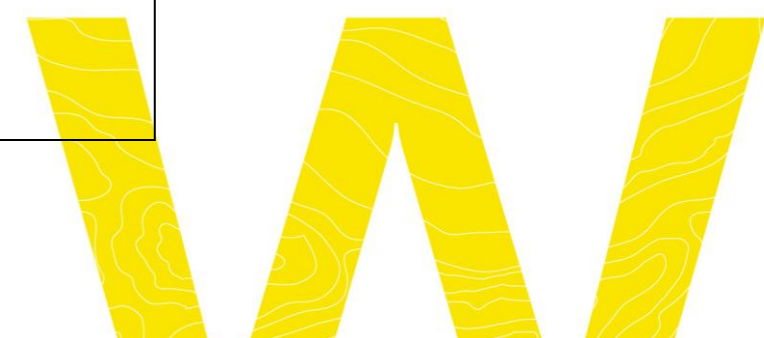
The Monaro Highway Upgrade 1B sustainability targets were set in consultation with the project management team and has formed part of our integrated management processes for the project to deliver quality infrastructure to the territory whilst also seeking to benefit the local environment, community and economy.

Over the first year of the sustainability rating, we have had great success in reducing material inputs to the project through innovative design solutions that allowed for the recycling of on-site materials and also the introduction of beneficial re-use materials from local construction sites; reducing the need for newly quarried materials and disposal of fill from local sites and the embodied carbon and energy waste therein. Furthermore, much of the design development has been completed for the project which included a significant climate change risk assessment, ecological and heritage assessments and the development of measures to improve the design sustainability outcomes for the site.

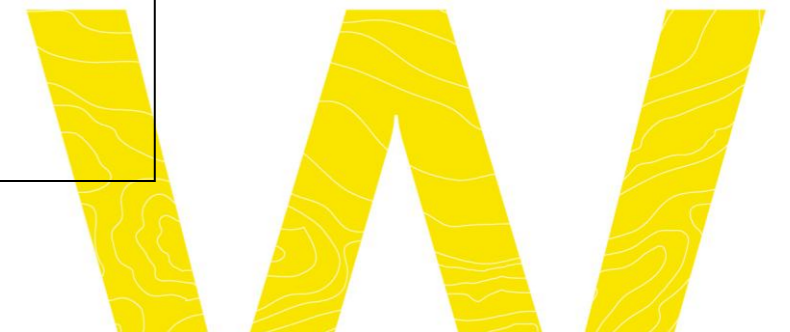
Although by ordinary industry standards, the project has performed very well – it has had challenges in relation to satisfying the strict criteria of the Infrastructure Sustainability Council’s rating scheme, with particular challenges in relation to the early planning phase of the project in regards to stakeholder engagement, heritage and ecology. Though we are pleased to report the landscape design for the project has incorporated a net enhancement to the site ecology and indigenous heritage factors.

The status, and success / challenge of each of our target items are noted below:

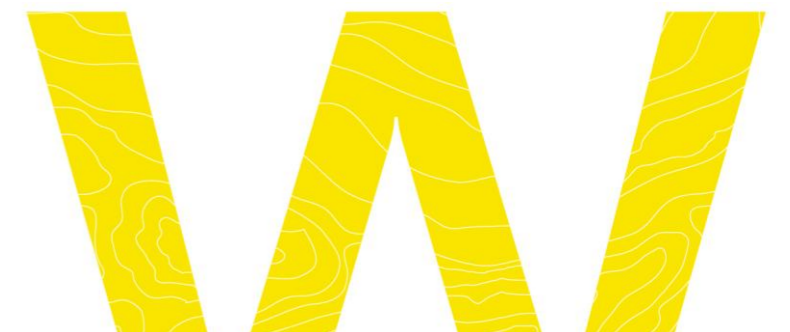
Theme	Focus area	Materiality Score	Targets			Status
			Design	Construction	Operation	
Governance	Urban and Landscape Design	4	Develop an urban and landscape design plan that considers key aspects as relevant to the project context and the plan will be reviewed before approval Identify measures to ensure the successful establishment and ongoing maintenance of plantings and other landscape and public realm features as part of the plan	Implement the urban and landscape design plan	Maintain revegetation sites	In final stages of completion for Design.
Governance	Climate and Natural Hazards Risks	4	Identify the direct and indirect risks posed by climate change to the project over its useful lifetime and complete a climate change and natural hazards risk assessment/risk management plan through the effort of a multi-disciplinary team.	Implement the treatment options adopted	Monitor and maintain the integrity of the asset especially during & after major weather events	Climate workshop completed, final report being incorporated into design handover.



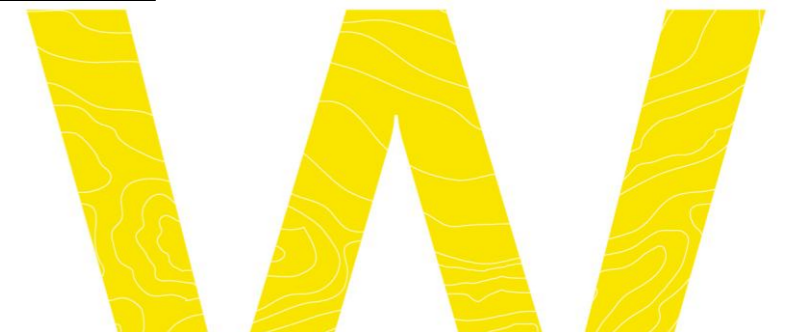
Environment	Receiving Water Quality	3	<p>Develop a Construction Water Management Plan as part of the CEMP</p> <p>Modelling to show that discharge water quality from the construction and the operating asset is equivalent to/not adverse to pre-development water quality/catchment levels.</p>	<p>Implement measures to minimise adverse impacts and to meet the project's water quality goals</p> <p>Regular and ongoing monitoring of water discharges and receiving water quality</p> <p>Detail measures and monitoring that require ongoing attention during operation in the handover documents</p>	Maintain asset	Completed design elements, implementation during construction ongoing.
Environment	Noise	4	<p>Develop a Noise Management Plan as part of the CEMP</p> <p>Develop a noise modelling for construction and operation phases of the project taking local context into consideration to show no recurring or major exceedances of the noise goals</p> <p>Identify noise goals and corresponding measures</p>	<p>Implement measures to mitigate construction and operational noise and meet the noise goals</p> <p>Regular and ongoing monitoring of implemented construction measures</p> <p>Detail measures and monitoring that require ongoing attention during operation in the handover documents</p>	Maintain asset	Design elements completed, including comprehensive noise monitoring and modelling for the adjacent sensitive receivers.
Environment	Vibration	4	<p>Develop a Vibration Management Plan as part of the CEMP</p> <p>Develop a noise modelling for construction and operation phases of the project taking local context into consideration to show no recurring or major exceedances of the vibration goals</p>	<p>Implement measures to mitigate construction and operational vibration and meet the vibration goals</p> <p>Regular and ongoing monitoring of implemented construction measures</p>	Maintain asset	Design elements completed, including comprehensive vibration monitoring and modelling for the adjacent sensitive receivers and critical gas and water utilities.



			Identify Vibration goals and corresponding measures	Detail measures and monitoring that require ongoing attention during operation in the handover documents		
Environment	Resource Strategy Development	3	Develop a resource Efficiency Strategy and Action Plan (RESAP) to outline specific actions and initiatives to reduce resource use and waste generation in the MHU1B project.	Implement the adopted measures to achieve the targets	Maintain asset	RESAP risks and opportunities have been consistently workshopped throughout the life of the project and many options have been adopted to reduce materials and energy use on the project.
Environment	Resource Recovery and Management	3	<p>Investigate measures to achieve the following targets:</p> <ul style="list-style-type: none"> >85% diversion of clean/inert excavation spoil from landfill >60% diversion of Office resource outputs (office and kitchen based) from landfill >70% diversion of other inert & non-hazardous resource outputs from landfill <p>Reduction of water use from creek & Reduction of material use in sediment and erosion controls by early batter stabilisation.</p> <p>90% materials sourced within 100km of project (local businesses/projects/assets)</p>	Implement the adopted measures to achieve the targets	Maintain asset	<p>Significant design work has been undertaken to balance the earthworks to divert spoil from landfill.</p> <p>Recycling has been undertaken on site to reduce landfill inputs from office and kitchen facilities.</p> <p>Significant recycling of waste products has been undertaken including concrete demolition waste from bridge 4.</p> <p>Early stabilisation of the southern abutment of Bridge 1 was completed and is scheduled to continue.</p> <p>Significant proportion of material inputs have all been sourced locally. Total figures tracking closely to 90% target.</p>



Environment	Material Life Cycle Impact Measurement & Management	3	Investigate a 15% reduction in materials life cycle impacts compared to the base case.	Implement the reduction measures to achieve the targets	Maintain assets	Materials reductions options have been adopted including design innovations for pavements, concrete structures and other elements of the works, tracking closely to a 15% reduction.
Environment	Avoiding Water Use	3	Investigate a 20% reduction in total non-potable water use across the infrastructure lifecycle compared to the base case.	Implement the reduction measures to achieve the targets	Maintain assets	This target is ongoing with tracking of water-use on-site.
Environment	Appropriate Use of Water Sources	3	Investigate a 30% reduction in total potable water use across the infrastructure lifecycle compared to the base case.	Implement the reduction measures to achieve the targets	Maintain assets	This target is ongoing with tracking of water-use on-site.
Social	Stakeholder Engagement Strategy	3	Develop a Stakeholder engagement strategy that is informed by local context and stakeholder characteristics. Early involvement of stakeholders required in order to make meaningful impacts to the design	Implement construction phase actions from the stakeholder engagement strategy	n/a	Stakeholder engagement strategy has been developed and support with TCCS Comms has been ongoing, particularly in public notification of traffic changes to the Monaro highway and adjacent works to the Emergency Services Agency.
Social	Stakeholder Engagement and Impacts	3	Identify high priority stakeholder issues and confirm with project stakeholders. And the stakeholders' inputs have outcomes for at least three of their high priority issues.	Ensure stakeholders' inputs on high priority issues have been documented and the actions addressing those issues are communicated to and acknowledged by stakeholders	n/a	Noise and vibration issues have been consulted with adjacent ESA and AMC and control measures incorporated into the construction methodology onsite. Tracking well with targets.



Social	Heritage Protection and Enhancement	4	<p>Undertake a heritage assessment that includes community and key stakeholder values.</p> <p>Community and stakeholder consultation to be undertaken on potential heritage impacts.</p> <p>Develop a monitoring system to mitigate/control unidentified sites, unexpected finds and previously unknown sensitive heritage values</p> <p>Provide site inductions and/or training to employees covering heritage assets and values</p> <p>Investigate a design that maintains tangible and intangible heritage assets and values</p>	<p>Implement the initiatives identified to minimise adverse impacts to heritage</p> <p>Implement the monitoring system developed during design phaser</p> <p>Offer site-specific heritage values and undertaken heritage awareness training</p>	Maintain assets	<p>Heritage assessments are completed in consultation with relevant stakeholders. Preliminary archeological work was completed within the site boundaries pre-construction.</p> <p>Induction materials include heritage elements and all CEMP requirements have been fulfilled in relation to heritage.</p> <p>Design outputs for Indigenous heritage elements are advanced.</p>
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