

Review of Snowy Mountains Special Activation Precinct Master Plan 2022 – Thredbo Sewer Trunk Main Rehabilitation

This review has been prepared in response to the Request for Information received via email from the Department of Planning, Housing and Infrastructure (DPHI) on 13 December 2024.

Email Reference: *RE: Development Application (PAN-494710): New application has been submitted* from Mark Brown (Team Leader, Assessments, Alpine Resorts Team).

- a) The Statement of Environmental Effects should provide additional detail in Part 3 on:...
 - Snowy SAP and technical studies
 - o Further consideration of the SAP master plan and technical studies
 - Ecology
 - Heritage
 - Flooding
 - Infrastructure capacity

Review of Snowy SAP Master Plan Performance Criteria

Table 1: Snowy SAP Master Plan Performance Criteria Review

Snowy Mountains Special Activation Precinct Master Plan 2022	
10.1 Land Use Performance Criteria	Comment
 A. Development is to be permissible and consistent with the Master Plan, Precincts—Regional SEPP, Alpine Development Control Plan, Kosciuszko National Park Plan of Management, and the National Parks and Wildlife Act. B. In considering the suitability of the development, the consent authority must be satisfied that the development meets the performance criteria and development controls in this Master Plan and in the Alpine Development 	Infrastructure is permissible. The development is for maintenance and rehabilitation of existing sewer infrastructure. There is no current Alpine Development Control Plan, therefore consideration of this criteria cannot be achieved.
Control Plan. C. Development consent can only be issued for development in the Alpine Precinct where: i. the uses will support the diversification of the Alpine Precinct's tourism offering and year round economic viability. ii. the uses will not compromise the environmental, heritage and cultural values of the Alpine Precinct. iii. the uses will not exceed the established carrying capacity of the Alpine Precinct. D. The location of future development should align	The proposal is for maintenance and rehabilitation of existing underground sewer infrastructure that is critical to resort operations. The works will not compromise the environmental, heritage or cultural values of Thredbo.
b. The location of future development should align with the relevant structure plan and be focused on land marked 'Development area'. Where development is proposed on land outside these	rehabilitation of existing infrastructure.



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areas, additional technical investigation may be	
required.	
E. Development for new or upgraded	Not applicable – the works are not for new
accommodation will meet the indicative sub-	or upgraded accmodation.
precinct yields and visitor thresholds set out in the	
Kosciuszko National Park Plan of Management and	
leasing arrangements. Refer also to Chapter 14 of	
this Master Plan.	
10.2 Alpine Resorts Performance Criteria	Comment
A. Development should contribute to visitor	Not applicable due to the nature of the
attraction and village experience through:	works – maintenance and rehabilitation of
i. the prioritisation of infill development.	existing sewer
ii. improvements to pedestrian and active	
transport connections.	
iii. creation and implementation of active street	
frontages.	-
B. Development should integrate public transport	
opportunities and should create gateways and	
nodes to create a sense of place and community in	
Alpine Resort sub-precincts.	
C. Development should provide a range of tourist	
accommodation offerings and seasonal worker	
accommodation.	
D. Development should be designed to reduce on-	
site power consumption and improve	
environmental performance.	
E. Development should be designed to contribute	
to the alpine character of the Alpine Resorts and	
reflect the alpine landscape and natural	
environment.	
10.3 Alpine Accommodation Performance Criteria	Comment
A. Development should be sensitively designed and	Not applicable due to the nature of the
integrated into the sensitive environment and	works – maintenance and rehabilitation of
landscaping, appropriately responding to the	existing sewer infrastructure.
topography of the Alpine terrain.	
B. Development should incorporate public	
transport opportunities, where possible, and	
provide adequate on-site parking.	
C. Development should provide adequate on-site	
amenities and services.	
D. Development should be designed to support	
and enable the ultimate growth in each Alpine	
Accommodation sub-precinct, including the design	
and provision of infrastructure and services.	
E. Development should connect to and improve	
shared trail and year-round recreational activities	
10.4 Alpine Experience Performance Criteria	Comment
A. Public transport or mass transit connections	
should be integrated into the design of new	



on Precinct Master Plan 2022
Not applicable due to the nature of the
works – maintenance and rehabilitation of
existing sewer infrastructure.
Comment
Refer to the Flora and Fauna Assessment
provided with this application.
Refer to the Flora and Fauna Assessment
provided with this application.
The proposal is for maintenance and
rehabilitation of existing infrastructure within
a disturbed corridor.
The proposal is for maintenance and
rehabilitation of existing infrastructure within
a disturbed corridor.
Not applicable.
Not applicable.
Not applicable.
Not applicable. No offsets proposed.
No offsets proposed.



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Showy Mountains Special Activati	
	construction methods. Refer to the project
	description, waterfront land assessment and
	flora and fauna assessment provided with
	this application.
H. Any revegetation or planting within Kosciuszko	All disturbed areas will be rehabilitated in
National Park should follow the Rehabilitation	accordance with the Rehabilitation
Guidelines for the Resort Areas of Kosciuszko	Guidelines as outlined in the SEMP.
National Park.	
11.2 Geotechnical Performance Criteria	Comment
A. Development must address the requirements of	Refer to the Geotechnical Assessment and
the Geotechnical Policy – Kosciuszko National Park	Form 4 provided with this application.
(DPNIR, 2003). This includes:	
i. development on land covered by the	
geotechnical maps, under the above policy must	
ensure the requirements of the policy are met.	
ii. development on land not covered by the	
geotechnical maps under the above policy must	
ensure the requirements of the policy are met and	
should also use the risk susceptibility mapping to	
inform the requirements and design of	
development.	
· · · ·	-
B. Development must include an assessment of	
geotechnical risks.	-
C. Buildings and structures must be designed to	
accommodate the specific geotechnical risks	
identified for the site.	-
D. Excavations required for new developments	
must consider the potential to cause widespread	
slope instability and ensure appropriate mitigation	
measures are implemented to minimise and	
manage risk.	-
11.3 Flood Risk Management Performance	Comment
Criteria	
A. The Flood Planning Level is the 1% AEP plus	Not applicable due to nature of proposal –
500mm freeboard to ensure consistency across the	maintenance and rehabilitation of existing
Precinct. Development must generally occur	sewer infrastructure not located within flood
outside the Flood Planning Level unless it can	impact area.
demonstrate that risks can be suitably managed.	
This allows for the maintenance of flood function	
and to avoid adverse effects on flood behaviour to	
the detriment of other properties or the	
environment of the floodplain.	4
B. Development within the Flood Planning Level	
should demonstrate that:	
i. all structures are constructed with flood	
compatible building components below the 1%	
AEP flood level plus 500mm freeboard.	
ii. all structures are designed to withstand the	
forces of floodwater, debris and buoyancy up to 1%	
AEP flood plus 500mm freeboard.	



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C. Development within the Probable Maximum	
Flood area should demonstrate that:	
i. all emergency and evacuation infrastructure is to	
be constructed with flood compatible building	
components below Probable Maximum Flood level	
plus 500mm freeboard.	
ii. all emergency and evacuation infrastructure	
structures are to be designed to withstand forces	
of floodwater, debris, and buoyancy up to Probable	
Maximum Flood plus 500mm freeboard.	
iii. development must be sited, designed and	
located to avoid or mitigate the flood risk to	
people, property and infrastructure such that:	
flood risk is managed through site-	
specific built form and design.	
 sensitive, vulnerable and critical uses 	
are avoided in the floodplain.	
D. Development should mitigate the impacts of	
local overland flooding through the provision of	
adequate site drainage systems, where possible.	
E. Development must consider and plan for	
emergency evacuation situations to ensure the	
safety of all areas within the Probable Maximum	
Flood extent.	
11.4 Water Quality Performance Criteria	Comment
A. Maintain or improve the ecological condition of	The proposal is for the maintenance and
waterbodies and their riparian zones in catchments	rehabilitation of existing sewer
over the long term.	
	infrastructure.
0	
B. Development in the Alpine Precinct should	
B. Development in the Alpine Precinct should implement on-site water management and water	infrastructure.
B. Development in the Alpine Precinct should	infrastructure. Temporary erosion and sediment controls
B. Development in the Alpine Precinct should implement on-site water management and water quality systems through:	infrastructure. Temporary erosion and sediment controls will be installed onsite during construction as
 B. Development in the Alpine Precinct should implement on-site water management and water quality systems through: i. the capture and re-use of water on-site. 	infrastructure. Temporary erosion and sediment controls will be installed onsite during construction as
 B. Development in the Alpine Precinct should implement on-site water management and water quality systems through: i. the capture and re-use of water on-site. ii. the treatment of water on-site with any water 	infrastructure. Temporary erosion and sediment controls will be installed onsite during construction as
 B. Development in the Alpine Precinct should implement on-site water management and water quality systems through: i. the capture and re-use of water on-site. ii. the treatment of water on-site with any water discharged back into catchments having a neutral 	infrastructure. Temporary erosion and sediment controls will be installed onsite during construction as
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 B. Development in the Alpine Precinct should implement on-site water management and water quality systems through: the capture and re-use of water on-site. the treatment of water on-site with any water discharged back into catchments having a neutral or beneficial effect on water quality. incorporating water sensitive urban design principles into the development's-built form and landscaping, where possible. C. The quality of stormwater discharged into receiving catchments must be pre-development quality or better in relation to pH, total suspended solids, total phosphorus, total nitrogen and gross pollutants. The quality of water should aim to meet the following targets: 	infrastructure. Temporary erosion and sediment controls will be installed onsite during construction as
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 B. Development in the Alpine Precinct should implement on-site water management and water quality systems through: the capture and re-use of water on-site. the treatment of water on-site with any water discharged back into catchments having a neutral or beneficial effect on water quality. incorporating water sensitive urban design principles into the development's-built form and landscaping, where possible. C. The quality of stormwater discharged into receiving catchments must be pre-development quality or better in relation to pH, total suspended solids, total phosphorus, total nitrogen and gross pollutants. The quality of water should aim to meet the following targets: Total Suspended Solids: 85% reduction. 	infrastructure. Temporary erosion and sediment controls will be installed onsite during construction as
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electrical conductivity below the 30 μ S/cm ANZG	
2018 Guideline value for upland rivers of South-	
East Australia.	
E. Monitor macroinvertebrates to ensure they are	Not applicable due to nature of proposal.
consistently within Band A of the NSW AUSRIVAS	Not applicable due to hature of proposal.
model.	
F. Erosion and sediment control should be	Controls will be implemented during
managed during construction to ensure impacts to	construction in accordance with the Blue
waterways are minimised in accordance with	Book and SEMP.
Managing Urban Stormwater Soils and	
Construction, also known as the Blue Book (current	
edition).	
G. Discharge of wastewater and/or contaminated	Noted.
stormwater to watercourses or waterways is not	Noted.
permitted unless other specified in an	
environmental protection licence issued under the	
Protection of the Environment Operations Act	
1997. Development must obtain the appropriate	
water licenses in accordance with the Water Act	
1912 and the Water Management Act 2000 and	
consider the relevant Water Sharing Plan.	
11.5 Bushfire Performance Criteria	Comment
A. Development is to:	Not applicable given nature of the proposal –
i. minimise perimeters exposed to the bushfire	maintenance and rehabilitation of existing
hazard.	sewer infrastructure.
ii. minimise vegetated corridors that permit the	
passage of bushfire towards development.	
iii. provide for the siting of future development	
away from ridge-tops and steep slopes, within	
saddles and narrow ridge crests.	
saudes and narrow huge liests.	
iv. ensure capacity of existing infrastructure (such	
_	
iv. ensure capacity of existing infrastructure (such	
iv. ensure capacity of existing infrastructure (such as roads and utilities) can accommodate the	
iv. ensure capacity of existing infrastructure (such as roads and utilities) can accommodate the increase in demand during emergencies as a result	
iv. ensure capacity of existing infrastructure (such as roads and utilities) can accommodate the increase in demand during emergencies as a result of the development.	
 iv. ensure capacity of existing infrastructure (such as roads and utilities) can accommodate the increase in demand during emergencies as a result of the development. B. Asset Protection Zones are to be provided and 	
 iv. ensure capacity of existing infrastructure (such as roads and utilities) can accommodate the increase in demand during emergencies as a result of the development. B. Asset Protection Zones are to be provided and maintained between a bushfire hazard and future 	
 iv. ensure capacity of existing infrastructure (such as roads and utilities) can accommodate the increase in demand during emergencies as a result of the development. B. Asset Protection Zones are to be provided and maintained between a bushfire hazard and future development and are designed to address the 	
 iv. ensure capacity of existing infrastructure (such as roads and utilities) can accommodate the increase in demand during emergencies as a result of the development. B. Asset Protection Zones are to be provided and maintained between a bushfire hazard and future development and are designed to address the relevant bushfire attack mechanisms. 	
 iv. ensure capacity of existing infrastructure (such as roads and utilities) can accommodate the increase in demand during emergencies as a result of the development. B. Asset Protection Zones are to be provided and maintained between a bushfire hazard and future development and are designed to address the relevant bushfire attack mechanisms. C. Adequate access is to be provided from all 	
 iv. ensure capacity of existing infrastructure (such as roads and utilities) can accommodate the increase in demand during emergencies as a result of the development. B. Asset Protection Zones are to be provided and maintained between a bushfire hazard and future development and are designed to address the relevant bushfire attack mechanisms. C. Adequate access is to be provided from all properties to the wider road network for park 	
 iv. ensure capacity of existing infrastructure (such as roads and utilities) can accommodate the increase in demand during emergencies as a result of the development. B. Asset Protection Zones are to be provided and maintained between a bushfire hazard and future development and are designed to address the relevant bushfire attack mechanisms. C. Adequate access is to be provided from all properties to the wider road network for park users emergency services and to provide access to 	
 iv. ensure capacity of existing infrastructure (such as roads and utilities) can accommodate the increase in demand during emergencies as a result of the development. B. Asset Protection Zones are to be provided and maintained between a bushfire hazard and future development and are designed to address the relevant bushfire attack mechanisms. C. Adequate access is to be provided from all properties to the wider road network for park users emergency services and to provide access to hazard vegetation to facilitate bushfire mitigation 	
 iv. ensure capacity of existing infrastructure (such as roads and utilities) can accommodate the increase in demand during emergencies as a result of the development. B. Asset Protection Zones are to be provided and maintained between a bushfire hazard and future development and are designed to address the relevant bushfire attack mechanisms. C. Adequate access is to be provided from all properties to the wider road network for park users emergency services and to provide access to hazard vegetation to facilitate bushfire mitigation works and fire suppression. 	
 iv. ensure capacity of existing infrastructure (such as roads and utilities) can accommodate the increase in demand during emergencies as a result of the development. B. Asset Protection Zones are to be provided and maintained between a bushfire hazard and future development and are designed to address the relevant bushfire attack mechanisms. C. Adequate access is to be provided from all properties to the wider road network for park users emergency services and to provide access to hazard vegetation to facilitate bushfire mitigation works and fire suppression. D. Development is to minimise levels of radiant heat, localised smoke and ember attack through development design and siting. 	
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11.6 Sustainability and Climate Change Performance Criteria	Comment
A. Development must be inclusive and sustainable and promote year round use.	The development is for the maintenance and rehabilitation of existing sewer infrastructure that is critical for resort operations.
B. Development should preserve the Precincts landscape, cultural, heritage and biodiversity values by avoiding and minimising impact.	The Development has been designed to minimise impacts within the locality.
C. Development should support sustainable and active transport opportunities and integrate open space. Buildings are to express a strong commitment to ESD principles and incorporate passive design, optimal orientation, effective sun shading, cross ventilation and open plan living. This should be evident in the external architectural expression.	Not applicable given nature of the proposal – maintenance and rehabilitation of existing sewer infrastructure.
D. Development should comply with applicable sustainability tools and programs for design, construction and operation.	Not applicable given nature of the proposal – maintenance and rehabilitation of existing sewer infrastructure.
E. Consideration must be given to climate responsiveness and resilience. Climate change risks, hazard and opportunities must be considered in the design, construction and operation of development within the Precinct.	The Development is for the maintenance and rehabilitation of existing sewer infrastructure. Geotechnical hazards have been considered as part of the application.
F. Operators, lessees and licensees within the Precinct must prepare and maintain an Environmental Management System in accordance with ISO14001:2015 – Environmental management systems and the requirements of the Plan of Management for Kosciuszko National Park	KT will continue to manage its operations in accordance with the existing EMS for Thredbo until the new framework in accordance with ISO14001:2015 – Environmental management systems and the requirements of the Plan of Management for Kosciuszko National Park is implemented across the Alpine Resorts.
Places and Landscape – Chapter 12 12.1 Aboriginal and Cultural Heritage Performance Criteria	Comment
A. Areas of Aboriginal cultural heritage (included as part of the environmentally sensitive areas map) should not be developed. Development may occur in these areas if it is for essential infrastructure and where further Aboriginal cultural heritage assessment will be undertaken to appropriately mitigate and manage any impacts to Aboriginal cultural heritage items, places or areas.	The development is not located within an area identified on the environmentally sensitive areas map.
B. Aboriginal culturally significant places and sites should be integrated with areas of environmental significance and green space (where appropriate) across the Precinct. This may continue to evolve as greening opportunities across the Precinct are established	Not applicable



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i. development within areas identified as 'disturbed land' do not require any further investigation beyond considering the potential for subsurface archaeological deposits. If current disturbances are considered to cover intact archaeological deposits, further investigation should take place that may include test excavation. Should development encounter any unexpected finds during construction, the procedures under the relevant unexpected finds protocol should be followed.

ii. works within areas identified as "moderate ACH potential' or 'high ACH potential' should be avoided. Where development will impact these areas, further Aboriginal cultural heritage assessment must be undertaken. This assessment should include a visual inspection, possibly test excavation if warranted, and participation from the Aboriginal community.

It is difficult to determine from the quality of the maps provided in the Master Plan where the areas of ACH potential apply within the resort. It appears part of the site may be located within an area mapped as 'Low



statement of heritage impact.

C. Development in areas defined as 'high risk'



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or 'moderate risk' requires further heritage	
assessment where the development is likely to	
materially have a major affect on a heritage item or	
its value. Development is considered to have a	
materially major affect if it involves:	
i. the full or partial demolition of a building.	
ii. major alterations or additions.	
iii. major adverse impacts, such as the removal	
of significant fabric, obscuring key views or	
dominating a heritage item, or the removal of	
evidence of significant historical associations;	
and	
iv. impact to significant archaeological deposits.	
D. Development in areas defined as 'high risk'	
or 'moderate risk' requires further heritage	
assessment where the development is likely to	
materially have a minor affect on a heritage item or	
value. Development is considered to have a minor	
affect if it involves (but is not limited to):	
i. repairs or restoration to fabric.	
ii. installation of fire safety equipment.	
iii. installation of disabled access.	
iv. replacement of awnings, balconies, etc.	
v. installation of signage or fencing.	
vi. excavation of areas without archaeological	
potential.	
vii. erection of temporary structures.	
viii. installation of safety and security equipment.	
E. Where development is likely to materially have a	
major effect on a heritage item or value, further	
heritage assessment is required. This heritage	
assessment includes:	
i. a visual inspection to determine the existing	
heritage values.	
ii. an archaeological assessment (if appropriate).	
iii. preparation of a statement of heritage impact.	
F. Where development will have minor effect on a	
heritage item or value, a heritage assessment may	
be required. This heritage assessment may include:	
a visual inspection to determine the existing	
heritage values.	
i. an archaeological assessment (if appropriate).	
ii. use of a previously prepared heritage study if	
applicable.	
G. Development that is likely to have a materially	
major or minor effect on a heritage item or its value must:	
i. identify the impacts to the heritage values of an item or place	
item or place.	
ii. demonstrate the need for the impact and	



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how alternatives to the impact have been	
considered.	
iii. demonstrate how the adverse impacts will be	
minimised or mitigated.	
H. Development adjacent to a heritage item should	
ensure impacts to the heritage item are minimised,	
including through the provision of appropriate	
curtilages. There may be opportunities to reduce	
the curtilage to some heritage items if it can be	
demonstrated the development will not have a	
significant impact on the heritage item or its value.	
I. Heritage items must be used for purposes that	
are appropriate to their heritage significance,	
including adaptive re-use where appropriate.	
J. Development is to ensure long-term heritage	
conservation outcomes are retained or interpreted	
to reflect the history of heritage items and places.	
K. Development should through development or	
upgrades remove inappropriate or unsympathetic	
alterations and additions to heritage items and	
reinstate significant missing details and building	
elements, where possible.	
12.3 Landscape, Character and Open Space	Comment
Performance Criteria	
A. Development should be designed to sensitively	The proposal is for the maintenance and
integrate into the landscape and should respond	rehabilitation of existing sewer
integrate into the landscape and should respond appropriately to the topography and climate of the	rehabilitation of existing sewer infrastructure.
	-
appropriately to the topography and climate of the	infrastructure. The proposal is for the maintenance and
appropriately to the topography and climate of the Alpine Precinct.	infrastructure.
appropriately to the topography and climate of the Alpine Precinct.B. Development should protect, conserve	infrastructure. The proposal is for the maintenance and
appropriately to the topography and climate of the Alpine Precinct.B. Development should protect, conserve and enhance the Alpine Precinct's natural	infrastructure. The proposal is for the maintenance and rehabilitation of existing sewer infrastructure
 appropriately to the topography and climate of the Alpine Precinct. B. Development should protect, conserve and enhance the Alpine Precinct's natural environment and create a green infrastructure network, where possible. C. Landscaping and public open spaces should 	infrastructure. The proposal is for the maintenance and rehabilitation of existing sewer infrastructure
 appropriately to the topography and climate of the Alpine Precinct. B. Development should protect, conserve and enhance the Alpine Precinct's natural environment and create a green infrastructure network, where possible. C. Landscaping and public open spaces should include plantings of native species found in 	infrastructure. The proposal is for the maintenance and rehabilitation of existing sewer infrastructure within a highly disturbed easement.
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Snowy Mountains Special Activati	on Precinct Master Plan 2022
i. ensuring building bulk, orientation and design	
contributes to the energy efficiency of buildings,	
particularly with respect to thermal comfort.	
ii. ensuring new buildings are located within	
existing disturbed areas to minimises impacts on	
vegetation and natural processes.	
iii. siting development within existing disturbed	
areas to limit clearing and the expansion of new	
development areas.	
iv. incorporating climate resilient design principles	
in new development.	
v. applying suitable rehabilitation and native	
landscaping.	
vi. incorporating preparedness for natural hazards	
and climate change into development design.	
ensuring development creates activated public	
domain spaces and provides safe and accessible	
pedestrian connections between buildings,	
appropriate for all seasons.	
B. Site earthworks must respond to local	Earthworks will be carried out in accordance
topography and geotechnical characteristics and be	with best practice methods and
appropriate for the intended land use.	recommendations outlined in the
	Geotechnical Assessment prepared by
	Assetgeoenviro (2024).
For village centres and public domain	Comment
	Comment
A. Development should create an integrated	Not applicable – the proposal is for the
A. Development should create an integrated streetscape where active frontages promote	Not applicable – the proposal is for the maintenance and rehabilitation of existing
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Snowy Mountains Special Activati	on Precinct Master Plan 2022
Chapter 13	Comment
13.1 Transport Network Performance Criteria	
 A. Transport infrastructure should integrate the public transport network with the existing road network by: i. ensuring public transport stops are strategically located and provide adequate allweather shelter and accessibility. ii. minimising vehicle conflict with active transport and public transport routes. B. Development must provide operational access and egress for emergency services and occupants. C. Development should integrate active transport connections that promote movements between the Alpine resorts, where possible. D. New development must provide and integrate new technologies, such as electric vehicle charging 	Not applicable – the proposal is for the maintenance and rehabilitation of existing sewer infrastructure.
and electronic checkpoints, where possible. 13.2 Utilities, Services and Infrastructure	Comment
Performance Criteria	comment
A. Development within the site must have access to water, wastewater, digital connectivity and telecommunications, energy and drainage infrastructure.	The proposal is for the maintenance and rehabilitation of existing sewer infrastructure within a pre-disturbed easement.
B. Utilities and services must be integrated with existing infrastructure and services, where possible.	
C. Utilities and services should be integrated into road reserves, active transport corridors or the public domain, where possible.	
D. Infrastructure and services must be designed to provide for the ultimate growth and development in Alpine Resorts.	
E. Development should provide and integrate water cycle management and renewable energy solutions into the design of buildings and structures, where possible.	



Review of technical studies

Snowy Strategic Activation Precinct Biodiversity Assessment of Alpine Sub-Precincts, June 2022 prepared by WSP.

The Biodiversity Assessment (WSP 2022) identifies part of the development site as being located in an area of High Biodiversity Constraints, refer **Figure 2**.



Figure 1: Extract from Biodiversity Assessment (WSP 2022)

Response: As part of the ongoing consultation regarding the draft Alpine Development Control Plan, KT engaged an independent ecologist to review the biodiversity assessment prepared by WSP for the Snowy SAP Master Plan. The subject site (Lakeside area) of the independent advice encompasses the area mapped as High Biodiversity Constraints uphill of snowmaking ponds and encompassing part of the pipeline path. The review identified inaccuracies and limitations to the SAP biodiversity constraint mapping at the Thredbo Village precinct and more specifically the Lakeside area and concluded development should not be precluded on the basis of the constraints mapping within the SAP Master Plan. The Department's SAP team have a copy of this advice.

A site-specific Ecological Assessment (ELA 2024) has been provided with this application. The assessment concluded:

- The proposed works will not result in any adverse impacts on threatened species, populations or ecological communities and will not have a significant impact on these entities pursuant to the NSW *Biodiversity Conservation Act 2016* or the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*.
- The proposal will not result in any substantial adverse impacts on native vegetation communities or associated fauna habitats, nor will there be any impacts on flora



species of conservation significance, important fauna habitats, habitat connectivity or any other biodiversity values of conservation significance.

Revised Aboriginal Cultural Heritage Assessment Report, Snowy Mountains Special Activation Precinct, June 2022 prepared by OzArk.

The OzArk survey area is identified in **Figure 2**. Part of the pipeline easement is captured by the survey area which has been flagged as 'ACH low potential'.



Figure 8-1: Thredbo Alpine Resort. ACH potential.

Figure 2: Extract of OzArk assessment, p.147

A summary of the findings is provided below:

- p. 78 Despite a large amount of assessment related to the installation of snow industry infrastructure, recorded sites are generally associated with the flatter landforms in the south of the Thredbo area (which is also associated with the Thredbo River). Twelve sites have been recorded in this area, all artefact sites. Seven of these sites are associated with the flatter, valley floor within this area.
- P.100 Although located on either side of the Thredbo River, the survey area is highly modified from earthmoving, building construction, and other infrastructure such as roads. The development areas shown in the Master Plan are confined either to modified landforms (car parks) or a steep cleared block to the south of the village. None of these areas has potential for significant Aboriginal objects or archaeological deposits. The survey area only included the village area and not the ski slopes to the north of the village.



- P.134 61-6-0104 (Friday Flat 2). This site is located on a bench in a steep slope overlooking the Thredbo River (now a small dam used for snow making storage). The slope is thickly vegetated making movement through the landform difficult. The exact location of the site was not accessible as it was covered with debris from a recent tree fall. However, nearby, some quartz artefacts were noted, and this supports the view that this bench, at some time in the past, must have attracted low density occupation (Figure 7-33).
- P. 146 The KNP survey areas generally have low archaeological potential as they are located within landforms with moderate to steep slopes. Those areas that are flatter have generally been previously disturbed by development. Some small areas, particularly adjacent to the Thredbo River have moderate archaeological potential, and small areas at the Thredbo Alpine Resort... have high potential due to the previous recording of a site.

Response: The pipeline easement is a highly modified site that has undergone extensive earthworks to create the easement and shared use trail. The Due Diligence prepared by Past Traces (2024) concluded there are no known heritage sites or areas of PAD within the project area. There are no heritage constraints on the project.

Technical Study Report, Engineering – Flooding and Water Quality, June 2021 prepared by WSP.

• p.45 – The Flooding and Water Quality assessment reviewed the Flood Level Study of Thredbo River prepared by SMEC (1999), refer **Figure 3**. The study concluded that some access roads were susceptible to inundation in regular events and additional culverts would be required to minimise the effects of flooding.



Figure 5.1 Thredbo River flood extents at car park, 5 and 1% AEP events

Figure 3: Extract from Flooding and Water Quality (WSP 2021)



- P.45 WSP recommended additional site specific flow and water level data should be collected to provide an improved understanding of flood behaviour in the Thredbo River catchment.
- P.73 The hydraulic modelling identified a few key access routes that had a low immunity, namely Friday Drive within Thredbo Village which may not have adequate immunity in a 1% AEP storm event and the junction between Barry Way and Kosciuszko Road west of Jindabyne. In addition, a number of minor roads particularly in Thredbo Village have been identified with low flood immunity.
- p.73 It is recommended that the low immunity access locations be reviewed in more detail and that additional infrastructure be constructed to ensure that the right level of immunity is reached. It is expected that a bypass surrounding Jindabyne will provide an alternate route to mitigate the low flood immunity between Barry Way and Kosciuszko Road, however the Friday Drive bridge should be assessed further to determine whether it requires upgrading to provide a higher level of immunity.

Response: The study identified parts of Friday Drive may not have adequate immunity in a 1% AEP storm event and recommended further review of these locations. It is understood no further review of Friday Drive has been undertaken as part of the Snowy SAP master planning process.

The Development is for the maintenance and rehabilitation of existing underground infrastructure. The site is not located within the 1:20 year or 1:100 year flooding area shown in **Figure 3**. The part of the pipeline that traverses Friday Drive is located outside of the 1:20 year flood area.

Snowy Mountains Special Activation Precinct, Kosciuszko National Park Plan of Management Carrying Capacity – Framework Development, June 2022 prepared by WSP.

This document relates to the development of a framework for the carrying capacity of Alpine Resort areas.

Response: As part of the implementation process for the Snowy SAP Master Plan, the SAP planning team are working with NPWS representatives and resort operators to create the framework to be implemented. As this remains undeveloped in draft, no further assessment of this application against the document is warranted.

The Development is for the maintenance and rehabilitation of existing sewer infrastructure.