

Relocation of Snowmaking Infrastructure, Front Valley Perisher Ski Resort

Statement of Environmental Effects

Statement of Environmental Effects prepared by:

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(Environmental Manager)

Perisher Blue Pty Ltd

FINAL

March 2022

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1 INTRODUCTION

1.1 Project Background

This report presents a statement of environmental effects (SEE) for a proposal by Perisher Blue Pty Limited (Perisher) for the relocation of snowmaking infrastructure on Front Valley. Proposed works include the relocation of an existing snowmaking pit to a slightly higher elevation on the slope, in alignment with other snowmaking guns on Front Valley. The current snowmaking gun and pit would be reused in the new location. Trenching will occur through previously disturbed areas for power, water and communications. Two x 50mm pipes will connect to the main 'A-line' snowmaking infrastructure to supply water and air for the snowmaking fan gun.

The current fan gun is located downslope and to the skiers left of the Village Eight Express chairlift unload, and below the Mitchell T-bar unload area on Front Valley. The current location of the snow gun means it is exposed and presents a hazard for snowboarders and skiers. Moving it to the knoll area above its current location will make it more visible and ensure it is an optimal location for snowmaking. The location of the proposal is within the Front Valley resort area, as shown in *Appendix A- Project Maps* and *Appendix B - Project Photos*.

1.2 Objectives of the Project

The objective of the proposal is to relocate a snow gun on Front Valley from a depression in the slope to the knoll above and in line with existing snowmaking lances. The relocation of the snow gun will reduce the risk to skiers and be in a prime position for optimal snowmaking.

2 PROJECT DESCRIPTION

2.1 Project Overview

Broadly, this proposal involves the following, as shown on Appendix A, Figure 2:

- Site preparation and installation of environmental controls.
- Site access from the established Village Eight Access Track and disturbed track.
- Removal of existing pit, snowgun and equipment.
- Backfilling and revegetation of the hole left from the pit removal (backfilled with suitable material sourced from Smiggins stockpile site).
- Excavation works for trenching, pit installation and associated drainage.
- The existing pit, fan gun and associated equipment will be relocated to the knoll above the existing location and in alignment with existing Lance guns.
- Site stabilisation and rehabilitation, as required.

2.2 Project Detail

2.2.1 Site Access & Disturbance Corridor

Access to the works area will be via the formed Front Valley Access track and disturbed track across the slope. The access route is shown in *Appendix A- Project Maps, Figure 2* and *Appendix B- Project Photos*.

The access route from Front Valley Access track is predominantly previously disturbed exotic grasses. Native vegetation adjacent to the existing snow gun will be fenced to avoid impacts.

The excavator will exit the site via the Perisher Valley Access Track below the Project Site.

Other project vehicles will be limited to previously disturbed areas to avoid or minimise impacts on native vegetation. Staff will walk to site where needed to avoid impacts on native vegetation.

2.2.2 Equipment & Machinery

Trenching and pit relocation will be conducted using a 14 tonne excavator. No other heavy machinery is required on site.

Rock removal is not expected, given the extent of previous disturbance in this area.

2.2.3 Trenching and Excavation

For trench and pit detail, refer to Appendix E – Engineering Drawings.

A trench for power and communications will be excavated from the current snowmaking location to the new location further uphill. A trench for the installation of a two x 50mm pipes for water and air to supply the fan gun from the existing 'A-line' snowmaking mains will also be excavated.

Excavation for installation of the fan gun pit will be to a depth of 900mm, with a pit drain to release groundwater extending downhill approximately 4m using 100mm pvc piping.

2.2.4 Works Program

Trenching works are expected to be carried out over a 5-day period, with works carried out during the summer season.

Site stabilisation and rehabilitation will extend beyond this period, as required.

2.2.5 Site Restoration and Rehabilitation

Works will be planned for a dry period to minimise disturbance.

Most of the site which is exotic grasses will be stabilised immediately following works with a mixture of Chewings fescue and/or *Poa fawcettiae* and/or *Poa costiniana* seed and straw mulch.

In vegetated areas, sod replacement will be carried out with topsoil and vegetation placed adjacent to the trench during the excavation process. Soil and sods will be reinstated immediately following installation of conduit and pipe. Environment Management Measures and Project Rehabilitation Methods are detailed in *Appendix D - SEMRP*.

3 ENVIRONMENTAL ASSESSMENT

3.1 General site suitability and constraints

Front Valley is a highly utilised area, acting as the main load area for skier and snowboards to access the rest of the mountain, as well as a good area for beginners. The location of the current snowmaking fan gun is a potential hazard and is no longer in an optimal location for snowmaking. Biodiversity impacts are addressed in *Section 3.2*.

3.2 Ecological Impacts

As shown on *Appendix A – Figure 2*, the project area is not within an area identified as having high biodiversity value on the Biodiversity Values Map (*Biodiversity Conservation Act, 2016*). Additionally, the proposal does not include the removal of native vegetation, and therefore the Biodiversity Offsets Scheme (BOS) would not be triggered based on the BV Map.

The area surrounding the existing snow gun, and the proposed new location are previously disturbed. Site fencing will ensure any impact to surrounding native vegetation is avoided.

3.3 General impacts on aquatic ecosystems

The proposed works will have no impact on aquatic ecosystems and is not within a riparian zone.

3.4 Aboriginal cultural heritage

As shown on *Appendix A- Figure 2*, the project area is not within an area identified as having potential archaeological significance.

An assessment of potential archaeological impacts has been included in *Appendix C-Archaeological Due Diligence*. In summary, an AHIP application is not necessary for the proposed works. Proceed with caution. If any Aboriginal objects are found, stop work, and notify DPIE. If human remains are found, stop work, secure the site and notify the NSW Police and DPIE.

3.5 European cultural heritage

The proposed works will have no impact on European cultural heritage.

3.6 Geotechnical Considerations

Project works are located within an area designated 'G' by the geotechnical maps, Geotechnical Policy, Kosciuszko Alpine Resorts. A Geotechnical 4 Assessment will be prepared for the works.

3.7 Soil impacts

Erosion impacts will be managed with appropriate controls, as outlined in *Error! Reference* source not found. Site Environmental Management & Rehabilitation Plan.

3.8 Visual impacts and aesthetics

The proposed works will have short-term visual impacts, relating to construction disturbance. The site will be sod-replaced, stabilised and revegetated; hence visual impacts will be temporary only. The new snowmaking gun location is replacing an existing snowmaking gun, hence there will be no increase in the amount of visible snowmaking infrastructure on Front Valley.

3.9 Social and economic impacts

The proposed works will have positive social and economic impacts, as they will result in the ongoing safe operations of the highly utilised Front Valley.

3.10 Effects on ski resort operation

The proposed works will have positive impacts on ski resort operation, as they will result in the ongoing safe operation of Front Valley.

Works are to be carried out during the non-operational summer season.

3.11 Noise and vibration

Localised noise and air impacts will result from construction vehicles however these will be temporary only. There will be no ongoing impacts on noise and air quality from the proposed works.

3.12 Waste management

The project will have no impacts on waste management.

3.13 Energy use and conservation

There will be no change in energy use.

3.14 Construction impacts & Engineering

Construction impacts including erosion, noise, air and waste are addressed in previous sections and *Error! Reference source not found.*Site *Environmental Management Plan and Rehabilitation Plan.* Engineering detail is provided in *Appendix E.*

4 STATUTORY ASSESSMENT REQUIREMENTS

4.1 State Environmental Planning Policy (Kosciuszko National Park – Alpine Resorts) 2007

Clauses 14 -16 of the State Environmental Planning Policy (Kosciuszko National Park – Alpine Resorts) 2007 list the factors which need to be considered by the consent authority when determining a development application. As the proposed works do not involve the erection of a building or a subdivision, the factors included in Clauses 15 and 16 are not considered relevant for these works and are therefore not included in this assessment. The factors listed in Clause 14 are included in *Table 4.1*, together with a summary assessment of each of these factors.

Table 4.1 – Factors which must be considered by the consent authority when determining a development application under the State Environmental Planning Policy (Kosciuszko National Park – Alpine Resorts) 2007.

Factor	Impacts/Comments	
	that relates to land to which this Policy applies,	
the consent authority must take into consideration any of the following matters that are of		
relevance to the proposed development: (a) the aim and objectives of this Policy, as set out in clause 2,	The proposal is within a highly disturbed area of the Resort and will result in better use of resources while providing a safer recreational experience. The proposal has regard for the Principles of ESD and will not result in adverse environmental, social or economic impacts.	
(b) the extent to which the development will achieve an appropriate balance between the conservation of the natural environment and any measures to mitigate environmental hazards (including geotechnical hazards, bushfires and flooding),	The proposal is within a highly disturbed area of the Resort and has minimal environmental impacts. The proposed development will not increase the community's exposure to environmental hazards.	
(c) having regard to the nature and scale of the development proposed, the impacts development (including the cumulative impacts of development) on the following:		
(i) the capacity of existing transport to cater for peak days and the suitability of access to the alpine resorts to accommodate the development,	The proposed development will not impact upon transport or access to the Resort.	
(ii) the capacity of the reticulated effluent management system of the land to which this Policy applies to cater for peak loads generated by the development,	The proposed development will not impact upon the capacity of the effluent system.	
(iii) the capacity of existing waste disposal facilities or transfer facilities to cater for peak loads generated by the development. (iv) the capacity of any existing water supply to cater for peak loads generated by the development,	The proposed development will not impact upon the capacity of waste disposal facilities or transfer facilities. The proposed development will not impact upon the capacity of the existing water supply.	

(d) any statement of environmental effects	This Statement of Environmental Effects	
required to accompany the development		
application for the development,		
(e) if the consent authority is of the opinion	The proposal will not change the current	
that the development would significantly	character of the Perisher Resort.	
alter the character of the alpine resort - an		
analysis of the existing character of the site		
and immediate surroundings to assist in		
understanding how the development will		
relate to the alpine resort,		
(f) the Geotechnical Policy – Kosciuszko	A Geotechnical Assessment will be prepared	
Alpine Resorts (2003, Department of	for the works.	
Infrastructure, Planning and Natural		
Resources) and any measures proposed to		
address any geotechnical issues arising in		
relation to the development,		
(g) if earthworks or excavation works are	Appropriate erosion and sedimentation	
proposed – any sedimentation and erosion	controls are proposed as outlined in the	
control measures proposed to mitigate any	SEMP provided in Appendix D.	
adverse impacts associated with those		
works,	Niet aus Baalda Niet aus de 122	
(h) if stormwater drainage works are	Not applicable- No stormwater drains are	
proposed – any measures proposed to	proposed or required.	
mitigate any adverse impacts associated		
with those works,	The property of the control of the c	
(i) any visual impact of the proposed	The proposed relocation of the snow gun will	
development, particularly when viewed from	not be highly visible, particularly from the Main	
the Main Range, (j) the extent to which the development may	Range. The proposed development will not increase	
be connected with a significant increase in	activities outside of the ski season.	
activities, outside of the ski season, in the	activities outside of the ski season.	
alpine resort in which the development is		
proposed to be carried out,		
(k) if the development involves the installation	of ski lifting facilities and a development	
control plan does not apply to the alpine reso		
(i) the capacity of existing infrastructure	The proposed development does not involve	
facilities, and	installation of ski lifting facilities.	
(ii) any adverse impact of the development		
on access to, from, or in the alpine resort,		
(I) If the development is proposed to be carried	ed out in the Perisher Range Alpine Resort:	
(i) the document entitled Perisher Range		
Resorts Master Plan, as current at the		
commencement of this Policy, that is		
deposited in the head office of the		
Department, and		
(ii) the document entitled Perisher Blue Ski	The proposed works will result in improved	
Resort Ski Slope Master Plan, as current at	and safer skiing and snowboarding on Front	
the commencement of this Policy, that is	Valley and therefore consistent with the	
deposited in the head office of the	PRRMP.	
Department,		
(m) if the development is proposed to be carried out on land in a riparian corridor:		
(i) the long term management goals for	The proposed work are located more than	
riparian land (see below), and	200m from the nearest watercourse.	
, , , , , , , , , , , , , , , , , , , ,		

(ii) whether measures should be adopted in	
the carrying out of the development to	
assist with meeting those goals.	
(2) The long term management goals for ripa	rian land are as follows:
(a) to maximise the protection of terrestrial	Not applicable.
and aquatic habitats of native flora and	
fauna to ensure the provision of linkages,	
where possible, between such habitats on	
that land, (b) to ensure that the integrity of	
areas of conservation value and terrestrial	
and aquatic habitats of native flora and	
native fauna is maintained, (c) to minimise	
soil erosion and enhance the stability of the	
banks of watercourses where the banks	
have been degraded, the watercourses	
have been channelised, pipes have been	
laid and the like has occurred.	

4.2 NSW Water Management Act 2000.

The proposed works are not within 40m of a riparian area, therefore will not require a controlled activity approval from the Department of Planning, Industry and Environment NSW *Water Management Act* 2000.

4.3 Environmental Planning and Assessment Act 1979

Section 4.15 (1) of the *Environmental Planning and Assessment Act* lists the matters which must be taken into consideration by the consent authority when determining a development application. *Table 4.2* lists these matters and provides a summary assessment of each of these matters including, where appropriate, a cross reference to the relevant sections in this report.

Table 4.2 - Environmental Planning and Assessment Act checklist

Matter	Impacts / comments
(a) the provisions of any environmental planning instrument (including drafts), development control plans, planning agreements and the regulations	See Section 4
(b) the likely impacts of the development, including environmental impacts on both the natural and built environments, and social and economic impacts in the locality	See Section 3
(c) the suitability of the site for the development	See Section 3
(d) any submissions made in accordance with this Act or the regulations	N/A

(e) the public interest	The assessment addresses the aims
	and objectives of the SEPP
	(Kosciuszko National Park - Alpine
	Resorts) 2007 and therefore is
	deemed to be in the public interest.

4.4 Biodiversity Conservation Act 2016

As outlined in Section 3.2, the Biodiversity Offset Scheme does not apply to this proposal. No impacts to threatened species are expected from this proposal.

4.5 Environment Protection and Biodiversity Conservation Act 1999

The factors which need to be considered under the Commonwealth *Environment Protection* and *Biodiversity Conservation Act* (*EPBC Act*) are listed in *Table 4.3* together with an assessment of each of these factors. None of these factors are considered to result in impacts which would be considered significant under the guidelines applying to the *EPBC Act*.

Table 4.3 – Environment Protection and Biodiversity Conservation Act checklist

Factor	Impacts / comments
Matters of National Environmental Significance	
Any environmental impact on a World Heritage Property?	No impact
Any environmental impact on a National Heritage Place?	No impact on the Australian Alps National Heritage Place.
Any environmental impact on wetlands of international importance?	No impact
Any environmental impact on Commonwealth listed species or ecological communities?	No impact
Any environmental impact on Commonwealth listed migratory species?	No impact
Does any part of the proposal involve a nuclear action?	No nuclear action
Any environmental impact on a Commonwealth Marine Area?	No impact
Impact on great Barrier Reef Marine Park?	No impact
Impact on Commonwealth land?	No impact
Impact on the environment, from action taken by the Commonwealth?	No impact
Commonwealth heritage places outside of Australian jurisdiction?	No impact

5 CONCLUSION

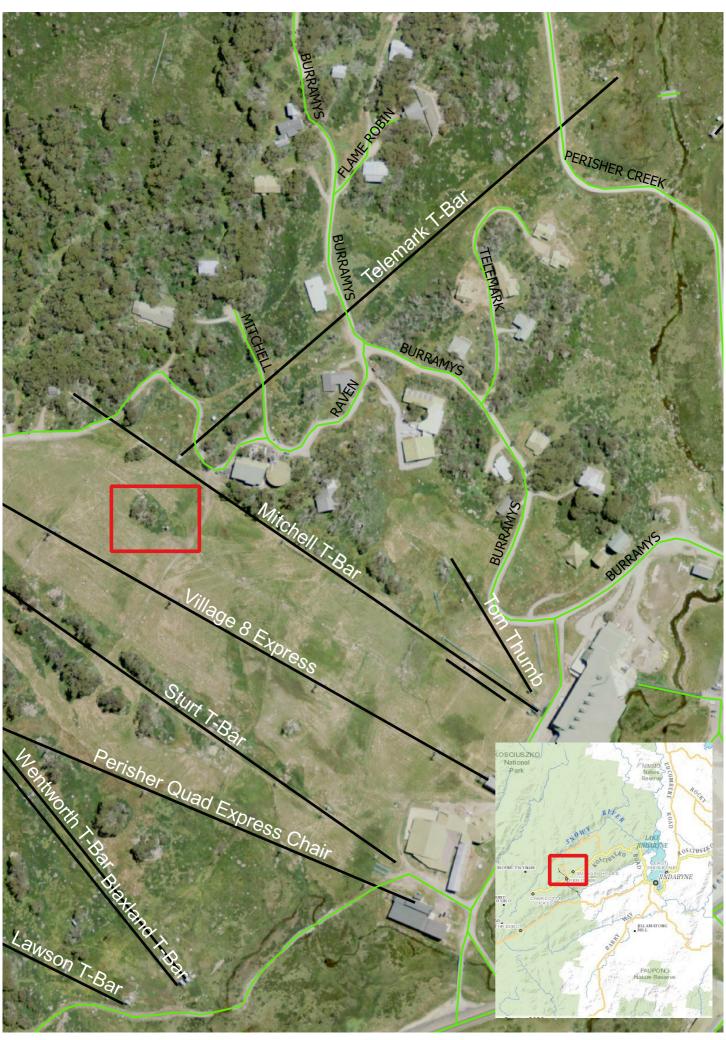
The proposed relocation of the snow gun on Front Valley will ensure the reliable and safe operation of the highly utilised Front Valley.

The area surrounding the snow gun, and proposed location is previously disturbed, and to minimise impacts on the environment, access routes and vehicle movements have been carefully considered.

No impacts on threatened species are expected from this project. An archaeological assessment shows the project can proceed with caution.

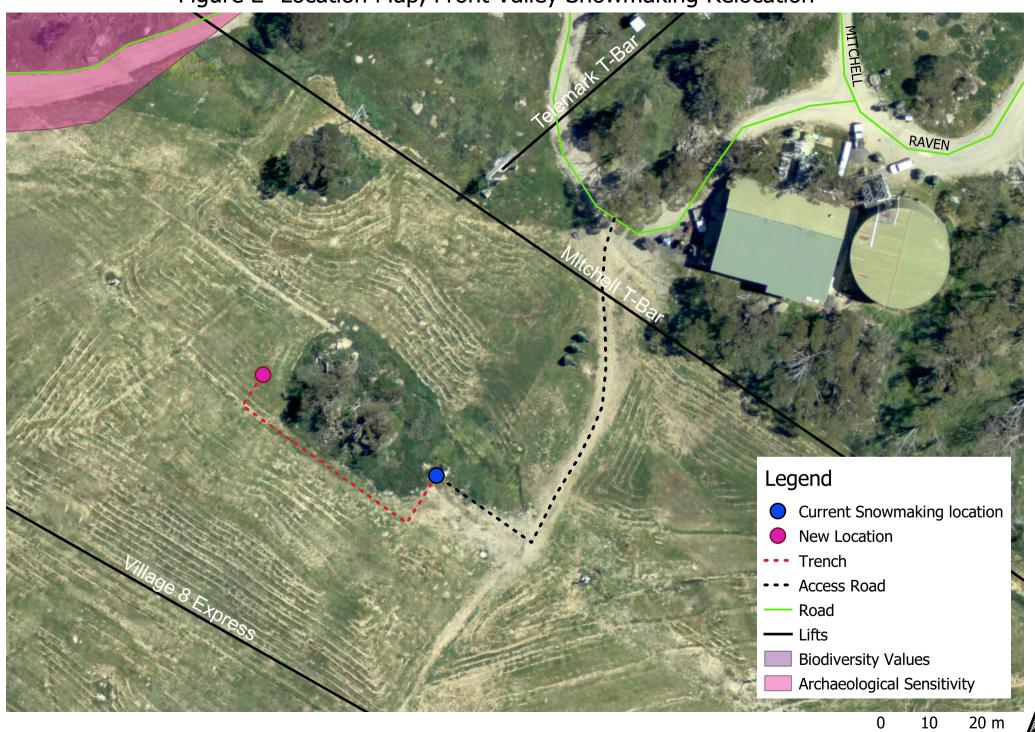
Appendix A - Project Maps

Figure 1: Project Location, Regional Setting



0 50 100 m

Figure 2- Location Map, Front Valley Snowmaking Relocation



APPENDIX B – Project Photos

Photos below reflect locations shown on Statement of Environmental Effects, Figure 2 – Location Map, Front Valley Snowmaking Relocation.



Photo 1 – Current location of snow gun on Front Valley, below rock island.



Photo 2 – Looking downhill from the proposed location of snow gun, above rock island and in-line with existing snowmaking lances.



Photo 3 – Area surrounding the proposed location of snowgun, showing disturbed land subject to revegetation as a part of previous development here.



Photo 4 – Site Access via the disturbed Front Valley Access Road



Photo 5 – Site Access via the disturbed Front Valley Access Road

APPENDIX C - Archaeological Due Diligence

Project Name: Snowmaking Relocation, Front Valley .

The due diligence assessment below is taken from the Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales, DECCW 2010. The assessment was undertaken by Beth Davies, Perisher Health, Safety and Environmental Officer, January 2022.

1 Generic Due Diligence Process

- Will the activity disturb the ground surface or any culturally modified trees?
 Yes, trenching will occur in previously disturbed areas
- 2. Are there any:
 - a. relevant confirmed site records or other associated landscape feature information on AHIMS? and/or
 - b. any other sources of information of which a person is already aware? and/or
 - c. landscape features that are likely to indicate presence of Aboriginal objects?Is the proposed development:
 - Located within 200m of water? No
 - Located within a sand dune system? No
 - Located on a ridge top, ridge line or headland? No
 - Located within 20m of a cave, rock shelter? No

And, is on land that is not disturbed land? No

NO, none

<u>CONCLUSION</u> – AHIP application is not necessary. Proceed with caution. If any Aboriginal objects are found, stop work and notify DECCW. If human remains are found, stop work, secure the site and notify the NSW Police and DECCW.



Perisher Date: 18 January 2022

Kosciuszko Road

Perisher New South Wales 2624

Attention: Beth Davies

Email: bethany.davies@vailresorts.com.au

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lat, Long From: -36.4, 148.41 - Lat, Long To: -36.4, 148.41 - Lat, Long To:

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

0 Aboriginal places have been declared in or near the above location.*

If your search shows Aboriginal sites or places what should you do?

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it.
 Aboriginal places gazetted after 2001 are available on the NSW Government Gazette
 (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

Important information about your AHIMS search

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.

ABN 34 945 244 274

Email: ahims@environment.nsw.gov.au

Web: www.heritage.nsw.gov.au

• This search can form part of your due diligence and remains valid for 12 months.

APPENDIX D - Site Environmental Management & Rehabilitation Plan

PROJECT & EMERGENCY CONTACTS		
Project Name	Relocation of Snowmaking Infrastructure, Front Valley	
Perisher Project Manager	Andrew Kennedy – 02 6459 4402	
Perisher Operations	Mountain Office - 02 6459 4408	
Perisher Environmental Manager	Tanya Bishop - 02 6459 4504	
Perisher HSE Officer	Beth Davies – 02 6459 4487	
Emergency	000	
DPIE	Pete Whiting – 02 6450 5543	
EPA	131 555	

ENVIRONME	NTAL MANAGEMENT MEASURES		
PRIOR TO CO	PRIOR TO CONSTRUCTION		
Induction	 All project staff to be made aware of disturbance footprint and environmental safeguards prior to works commencing 		
Access	 Site works to be limited to dry periods, to minimise soil disturbance Fence off all approved construction areas and access corridors Machinery from offsite to be cleaned prior to accessing site All access to site via the formed Front Valley access track, or disturbed tracks across Front Valley where required 		
Storage	 All equipment to be stored in areas of exotic grass only. No storage of equipment or machinery on native vegetation. 		
Disturbance to Soil	 Sedimentation and erosion controls to be installed in areas likely to experience soil loss into the surrounding environment 		
DURING CON	ISTRUCTION		
Disturbance to Soil	 For erosion control, use straw bale filters Erosion and sedimentation controls shall be monitored & maintained daily and immediately following a rainfall event 		
Flora & Fauna	 No unapproved removal or disturbance of native vegetation Refuel away from areas of native vegetation No storage of material on native vegetation Any excavations left open overnight will be left such that any fauna are able to escape easily 		
Machinery / Fuel	Spill kits shall be readily accessibleSpills of any liquids shall be controlled and cleaned up immediately		

	 No maintenance other than emergency repairs shall be undertaken on site.
Work Hours	 Limit work to approved hours only (daylight)
Waste	All litter and waste to be contained and removed from site regularly
FOLLOWING	CONSTRUCTION
Stabilisation & revegetation	area
Disturbance to Soil	 All erosion and sedimentation controls to be removed from site once ground has stabilised

Project Rehabilitation Methods					
Project Area	Existing Environment	Rehabilitation Methods			
Front Valley Access Track	Access Track	- Reinstate to trafficable access track			
Pit removal location	Concrete pit adjacent to native vegetation	 Level ground surface to match surrounding Seed with Poa fawcettiae / Poa costiniana Mulch with straw Assess need for further stabilisation / rehabilitation Monitor site stability and drainage Monitor & manage weed incursion 			
Top of Project to Front Valley Access Track	Disturbed, exotic grass	 Sod replace trench Seed with Chewings fescue Mulch with straw Assess need for further stabilisation / rehabilitation Monitor site stability and drainage Monitor & manage weed incursion 			
New pit location, surrounding	Rehabilitation area – Poa fawcettiae	 Seed with Poa fawcettiae / Poa costiniana Mulch with straw Assess need for further stabilisation / rehabilitation Monitor site stability and drainage Monitor & manage weed incursion NOTE – site subject to rehabilitation in accordance with DA 10625 			

VAIL RESORTS (PERISHER) FRONT VALLEY SNOW MAKING A LINE FAN GUN RELOCATION

CLM CiViL Project No. U248



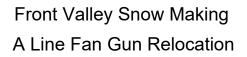
Locality Plan - Not to Scale

DRAWING LIST

Cover Sheet, Drawing List, and Locality Plan

Plan View and Details U248 - 2 U248 - 3 Fan Gun Pit Details

Rev	Date	Description
В	28/02/2022	Development Application



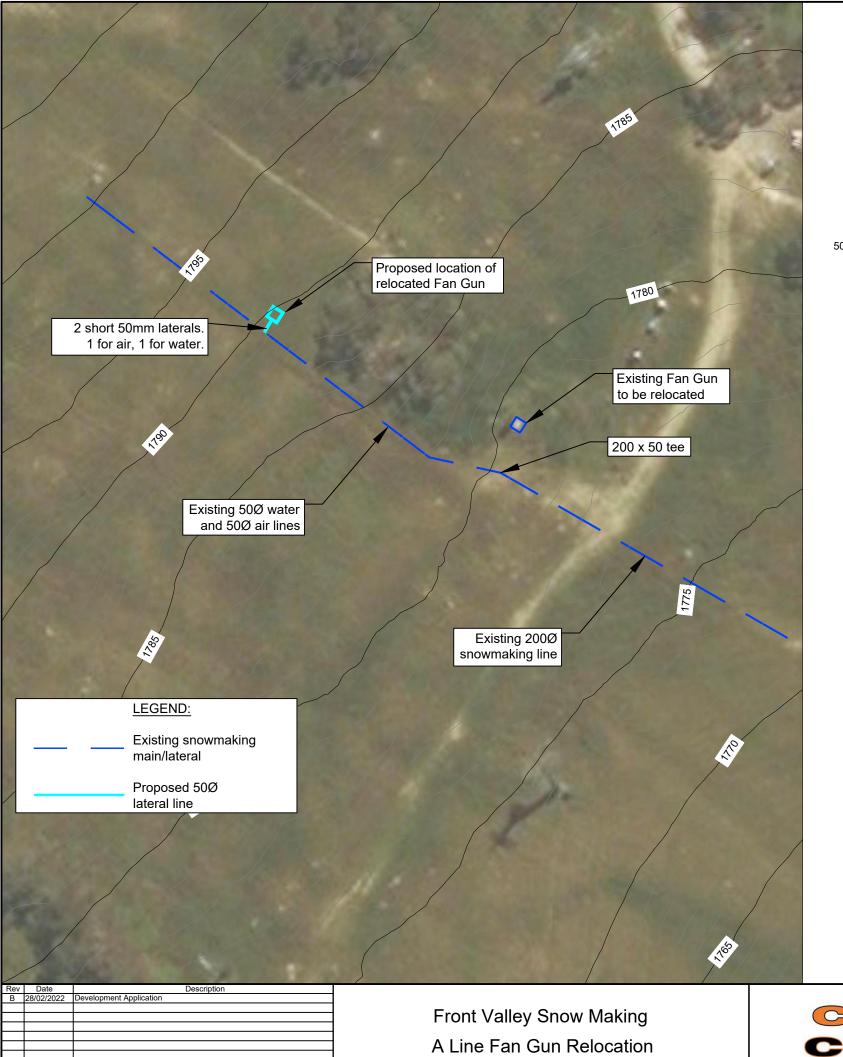


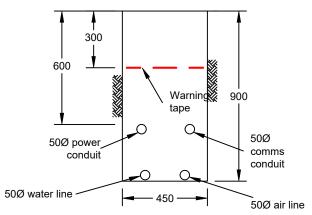
CLM CiViL Engineering 205 Bobundara Road BERRIDALE NSW 2628 PH: 0427 886 623

Client:	Vail	Resorts	(Perisher)

Cover Sheet, Drawing List and Locality Plan

Development Application						
mMGA/AHD Scale AS SHOWN Size A3						
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Trenching Details NTS

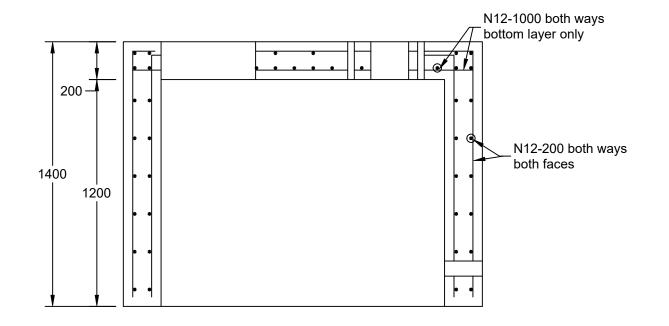


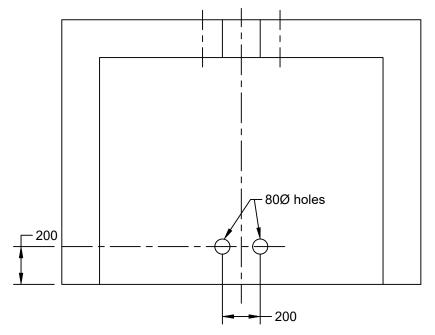
CLM CiViL Engineering 205 Bobundara Road BERRIDALE NSW 2628 PH: 0427 886 623 www.clmcivil.com.au

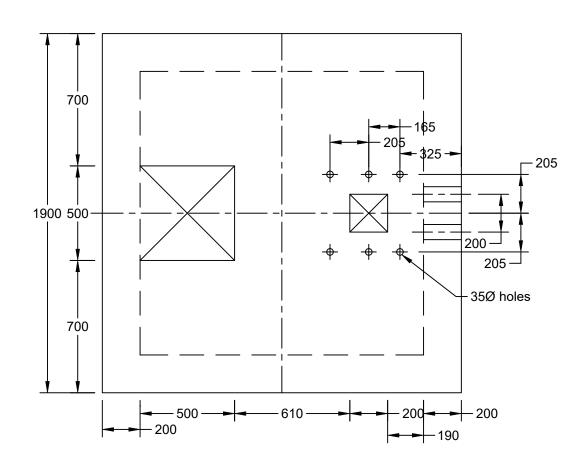
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Plan View and Details

Development Application					
MGA/AHD Scale Plan 1:500 Size A3					
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Rev	Date	Description	
В	28/02/2022	Development Application	

Front Valley Snow Making
A Line Fan Gun Relocation



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t:	Vail	Resorts	(Perisher)	

Fan Gun Pit Details

Development Application					
MGA/AHD	ΓS Size A3				
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