



General Information								
Scope/Task:	Risk Assessment. Thre	dbo MTB				er Number:		
	Season Operations			(Check with R	Risk Register)			
Location:	Thredbo			Date of Origin		6/11/2015		
Area/Dept at which assessment conducted:	KT WHS			Last Review	N	17/11/2025		
Person Conducting Assessment:	Brendan May, WHS Ma	nager	Area/Dept Manager	/ Supervis	or:	Stuart Diver, Ger	neral Manager	
Other people involved / consulted:	Name: Kim Delpit	Position: Mountair	n Manager	Name: Ti	m Windshut	tle Position: M	TB Business Manager	
	Name: Daniel Taliana	Position: MTB Ops Manager Name:		Name: P	Name: Paul Kennedy		Position: Trails Supervisor	
	Name: Greg Molloy	Name: Greg Molloy Position: KT Maintenance Manager Name: Da			avid Kuhn	Position: P	atrol Manager	
Defense								

#### References

It is a requirement that legal and advisory documentation used for this risk assessment, such as Australian Standards, Codes of Practice, Regulations etc, where possible, are listed.

- AS/NZS ISO31000:2018 Risk Management Principles and Guidelines
- Work Health and Safety Act 2011
- Work Health and Safety Regulation 2025
- KT002 Safety Management System Overview
- EVT WHS Policy
- Thredbo Environmental Sustainability Plan
- Mountain Access Conditions Summer
- KT Operational Risk Assessment
- KT023 Excavation Near Underground Assets Procedure
- International Mountain Bike Association (IMBA) 'Guidelines for a Quality Trail Experience Mountain Bike Trail Guidelines'
- Thredbo Trail Management Plan
- Thredbo Trail Monitoring and Inspection Plan
- KT MTB Trail Sweep SOP





#### **Description of task**

Thredbo Alpine Resort offers Mountain Biking (MTB) during the summer months. This includes the provision of lifts and trails, lessons and clinics, equipment sale, hire and repair. Thredbo MTB Operations utilises the below trails

#### Gravity Trails are rated as follows:

- Easy Rider- MTBA green (beginner flow)
- Sidewinder- MTBA green (beginner flow)
- Rockpools- MTBA green (beginner flow)
- Centrelink- MTBA green (beginner flow)
- Woody's- MTBA green (beginner technical)
- Grasshopper- MTBA blue (intermediate flow)
- Kosciuszko Flow- MTBA blue (intermediate flow)
- Pegasus- MTBA blue (intermediate flow)
- Ricochet- MTBA blue (intermediate flow)
- Revolver- MTBA blue (intermediate flow)
- Dream Catcher- MTBA blue (intermediate technical)
- Cannonball DH

  MTBA black (advanced technical)
- Home Run MTBA blue (intermediate flow)
- Slayground MTBA blue (intermediate flow)
- Panorama MTBA Black (advanced technical)
- Bobshred MTBA blue (intermediate flow)
- Paparazzi MTBA Blue (intermediate technical)

Cross Country Trails are rated as follows:

- Pipeline Path- MTBA green (beginner flow)
- Golf Course Loop- MTBA green (beginner flow)

Skills and Jump Parks are rated as follows:

- Village Green Pump Track- MTBA green
- Flip Skills Park- MTBA blue
- Boost Mobile Jumps Park- MTBA blue
- Valley Terminal Jumps Park- MTBA black

All courses are purpose built and are tailored for different rider ability and technical complexity. The lifts utilised to provide trail access will be the Kosciuszko Express, Snowgums, Cruiser and Gunbarrel chairlifts and the Merritts Gondola. The 2025-26 MTB season is a ticketed event, the estimated daily capacity of the season is 1000 participants. This document is produced by Kosciuszko Thredbo Pty Ltd to specifically review MTB operations. It addresses only Work Health & Safety and Public Safety risk related to the MTB operations.





RISK	ASSESSMENT						
		Hazard Identification		Risk Control			
No	Task/Activity (What is that we are doing)	Hazards (What has potential to cause injury of damage)	Associated Risks (Type of injury or damage from Hazard)	Risk Controls (If elimination not possible, apply the hierarchy of risk controls – See Table 2)	Residual Risk Additional Controls (Use Risk Matrix – See Table 1)	Person Responsible	
1	Trail Maintenance	Driving on Mountain Access roads	Collision resulting in Personal Injury and/or Property Damage	Mountain Access controlled as per Mountain Access conditions Summer	Medium 6	Mountain Manager Slopes Manager MTB Trail Supervisor	
2	Trail Maintenance	Use of Machinery such as excavators	Personal injury Property damage	Only competent staff, suitably trained and qualified to operate machinery  Machinery to be maintained and	Low 5	Mountain Manager Slopes Manager MTB Trail Supervisor	
				operated in accordance with manufacturers specifications  Permit To Dig to be obtained prior to excavation works			





3	Trail Maintenance	Use of hand tools	Impact or other personal injury	Inspect all tools prior to use.  Appropriate tools used for each task.  Competent/trained people using tools.  Appropriate PPE worn.	Low 2	MTB Trail Supervisor All Staff
4	Trail Maintenance	Use of power tools	Impact or other personal injury  Cuts and abrasions  Eye injury  Hearing injury  Electric shock	Inspect all tools prior to use.  Appropriate tools used for each task.  Appropriately sized and rated bits, blades and discs for the tool used and medium that is being worked on  Battery operated tools used where possible  All 240v tools and extension leads to be tagged in date.  Competent/trained people using tools.  Appropriate PPE worn.	Medium 8	MTB Trail Supervisor All Staff





5	Trail Maintenance	Outdoor environment.	Sun, Wind, Heat and Cold related injury.	Avoid working in extreme weather.	Low-4	MTB Trail Supervisor
				Ensure adequate water is on hand and available to staff.		All Staff
				Ensure adequate breaks are taken.		
				Wear appropriate clothing and PPE.		
6	Trail Maintenance	Manual Handling of goods	Manual handling or other personal injury	Assess the lift.  Use appropriate manual handling techniques and lifting aids.	Low-2	All Staff
				Break down the load where possible.		
				Provide adequate rotation of tasks and breaks to reduce repetition		
				Use multiple people for heavy/awkward items.		





7	Trail Maintenance	Weather events	Erosion	Trails constructed in a	Medium	Slopes Manager
			Silting/sedimentation of waterways	sustainable manner.  Trails inspected daily.  Ongoing maintenance throughout the season	7	MTB Trail Supervisor
				Weather monitoring and alerts in place to ensure addition measures are in place for significant rain events		
				Avoid working during rain events.		
				Minimise disturbance of ground.		
				Site environmental management measures to be in place.		
				Spoil placed in designated areas only		
8	Trail Maintenance	Dust generation activities	Respiratory and visual irritation and injury Environmental harm	Use of dust suppression, such as water spraying where required	Low-4	Site Supervisor All Staff
				Use of enclosed cabs on plant where possible.		
				Staff to move upwind of activities where dust is generated		
				Use of appropriate PPE		





9	Trail Maintenance	Noise generation	Hearing damage	Noise	Low-4	Site Supervisor
		machinery and activities	Environmental harm	Suppression/Silenced equipment to be used where possible		All Staff
				Use of noise generating equipment to be minimised		
				Applicable restrictions of hours of noise generation to be adhered to		
				Use of appropriate PPE		
10	Trail Maintenance	Fume generation	Respiratory injury, illness, irritation  Other chemical inhalation injury  Environmental damage	Minimal staff to be on site/exposed to any fume generation activity such as refuelling.  Staff to stay upwind of vehicle operation and minimise any exposure to exhaust fumes	Low-4	All Staff





11	Trail Maintenance	Faulty Equipment	Personal Injury Fluid spill Property damage	Daily start up checks / procedure done on machinery prior to use each day  All plant to be regularly serviced as per manufacturers schedule  Site environmental management measures	Low-3	Operator
				to be in place.  Spill kits to be on hand  Any damage to be assessed immediately by qualified staff		
12	Chair Lift Operations	Use of Bike racks on chairs	Personal Injury Property Damage	Bike Racks to be installed so as to provide clearance from obstacles  Chair to be run and monitored at a speed that allows safe loading and unloading of bikes	Medium 8	Lifts Manager All Lifts Staff





13	Riding Trails	Trail Features	Crash resulting in Personal Injury and/or Property Damage	Trails constructed by suitably qualified staff.  Trails graded and signposted by suitably qualified staff  Trails regularly inspected by staff to ensure that trails are clear and in good condition  PPE required to be worn by Staff and guests  Staff to ride well within their personal limits	Very High 20	MTB Operations Manager  MTB Trail Supervisor  All MTB Staff  All Lift Staff
14	Mountain Bike Operations	Use of Gravity Trails	Injury to person, damage to property in any single instance	Trail design & Maintenance, daily inspections, minimum bike and equipment requirements	Medium 6	Mountain Manager Mountain Bike Operations
15	Riding Trails	Vehicles and other Mountain Users	Collision resulting in Personal Injury and/or Property Damage	Mountain Access controlled as per Mountain Access conditions Summer 2025-26	Medium 6	Mountain Manager





16	Riding Trails	Trail Use	Litigation, Workers Compensation costs or	Trails built and certified to standards.	Medium	MTB Trail Supervisor
			Brand damage as a result of injury or property damage	Trails Graded and Sign posted	6	MTB Operations Manager
				Staff trained and competent for level of		MTB Business Manager
				trail		MTB Instructors
				Guests in lessons assessed and graded for level of trail		Guest Services Manager
				Waivers, Terms and		General Manager
				Conditions and Insurance current and adequate to cover likely costs arising from litigation		Director – Strategy & Risk
				Trained Patrol Staff on duty at all times Trails are open for riding to render assistance and minimise outcomes of accidents as quickly as possible		
				KT Provides a staffed medical centre during high visitation periods		
				Working Relationships maintained with local NSW Ambulance and Air Ambulance		





17	Riding Trails	Outdoor environment.	Sun, Wind, Heat and Cold related injury.	Avoid working in extreme weather.  Ensure adequate water is on hand and available to staff.  Ensure adequate breaks are taken.  Wear appropriate clothing and PPE.	Low-4	All Staff
18	Retail and Rental Operations	Manual Handling	Personal Injury	All lifts to be assessed  Where appropriate lifting aids to be used  Split the load where possible  Multiple people to be used for heavy loads  Task specific training to be given for lifting mountain bikes onto top racks  Correct techniques to be used	Medium 8	MTB Operations Manger  MTB Business Manager  All Retail/Rental Staff





19	Retail and Rental Operations	Damaged Products such as bikes or helmets sold/hired	Personal Injury Brand Damage Litigation Expenses	All products to meet applicable safety standards  All products to be in good order and stored appropriately  All hire equipment to be serviced and checked for serviceability prior to re hire	Medium 6	MTB Operations Manger  MTB Business Manager  All Retail/Rental Staff  All Workshop Staff
20	Retail and Rental Operations	Use of hand tools/box cutters etc	Impact/cut or other personal injury	Inspect all tools prior to use.  Appropriate tools used for each task.  Competent/trained people using tools.  Appropriate PPE worn.	Low 2	MTB Operations Manger MTB Business Manager All Retail/Rental Staff
21	Provision of Lessons and Clinics	Inappropriate Guest Clothing/PPE/Equipment	Personal Injury	Instructor to assess the guest equipment/clothing/PPE to ensure that it meets at least a minimal safe standard	Medium 9	All MTB Instructors





22	Provision of Lessons and Clinics	Guest Skill Level insufficient for lesson	Personal Injury  Negative experience for other participants	Lesson Levels clearly explained in booking process  Instructor to assess each participant at commencement of lesson	Medium 9	Guest Services Manager  MTB Business Manager  MTB Operations Manager  All MT Instructors
23	Workshop Operations	Use of hand tools	Impact or other personal injury	Inspect all tools prior to use.  Appropriate tools used for each task.  Competent/trained people using tools.  Appropriate PPE worn.	Low 2	All Workshop Staff





24	Workshop Operations	Use of power tools	Impact or other personal	Inspect all tools prior to	Medium	All Workshop
			injury	use.	8	Staff
			Cuts and abrasions	Appropriate tools used		
			Eye injury	for each task.		
			Hearing injury	Appropriately sized and rated bits, blades and		
			Electric shock	discs for the tool used and medium that is being worked on		
				Battery operated tools used where possible		
				All 240v tools and extension leads to be tagged in date.		
				Competent/trained people using tools.		
				Appropriate PPE worn.		





25	Workshop Operations	Use of pneumatic tools	Impact or other personal injury	Inspect all tools prior to use.	Medium-8	All Workshop Staff
			Cuts and abrasions Eye injury Hearing injury Electric shock	Appropriate tools used for each task.  Appropriately sized and rated bits, blades and discs for the tool used and medium that is		
				being worked on  Adequate air pressure supply available to maintain constant correct operating pressure for tools		
				Competent/trained people using tools.		
				Appropriate PPE worn.		





26	Workshop Operations	Chemical Handling – Oils & other fluids	Exposure resulting in personal injury Property damage Environmental Damage	All chemicals to be used as per the manufacturer's intention  All conditions of the MSDS in relation to handling and storage to be followed  All chemicals bought on site to be registered in the MSDS register  Only minimal quantities that still ensure availability for use to be held at any time	Low 3	All Workshop Staff
27	Bike Washing	Contaminated water	Contaminated water entering waterways	Bike washing facilities in approved bunded area only where water is unable to affect waterways.	Low 3	MTB Operations Manager
28	Installation of Displays	Display location, size and appearance	Detract from local amenity	All installations to be approved by Brand and Marketing	Low 2	MTB Business Manager
29	Set Up of displays and promotional material	Packaging, and promotional material	Pollution of land/river	Current Waste Management Practices	Low 4	Environmental Services Manager





30	Use of paints, glues,	Hazardous chemicals	Exposure/Personal Injury	All chemicals to be used	Low	MTB Operations
	cleaners and other chemicals in			as per the manufacturer's intention	5	Manager
	operations			All conditions of the MSDS in relation to handling and storage to be followed		
				All chemicals bought on site to be registered in the MSDS register		
				Only minimal quantities that still ensure availability for use to be held at any time		





#### Table 2: Risk Control

The most effective strategy for risk control is:

#### Elimination of risk

This means to completely remove the risk so no control/s need to be implemented.

When elimination of risk is not reasonably practicable, the hierarchy of controls should be consulted to implement the next most effective strategy reasonably practicable. A combination of the following controls may be required to be taken to minimise the risk to the lowest level reasonably practicable if no single control is sufficient for that purpose.

Elimination	This means to completely remove the risk so no control/s need to be implemented  When elimination is not reasonably practicable, the hierarchy of controls should be consulted to implement the next effective strategy. A  combination of the following may be required to be taken to minimise the risk.	Highest	Most
Substitution	Replacing a hazardous substance or process with a less hazardous one, e.g. substituting a solvent based chemical with a water based one	£.	<del>_</del>
Isolation	Isolating the hazard from the person at risk, e.g. isolating the power before working on electrical circuitry, enclosures for noisy machinery	of heal safety ection	lity o rols
Engineering	Redesign a process or piece of equipment to make it less hazardous , e.g. installing an exhaust ventilation system to extract dangerous fumes or dust	evel of and sa protec	eliabil
Administration	Minimising the risk by administrative or procedural means e.g. by adopting safe work practices or providing appropriate training, instruction or information	Le Le	ă.
PPE	Have people wear personal protective equipment and clothing while near a hazard, e.g. gloves, glasses. Earmuffs, aprons, safety footwear, dust masks	Lowest	Least





THREDBO		CONSEQUENCE RATING							
		Insignificant (1) Problem easily handled by normal processes first aid treatment required	Minor (2)     Some disruption possible     Minor injuries or illness     requiring medical treatment	Moderate (3)  Significant time and resources required	Major (4)     Operations severely damaged     single fatality or permanent disability	Catastrophic (5)  Business survival is at risk  multiple fatalities and / or significant impact to individuals			
	Almost Certain (E) >90% Chance	11 High	16 High	20 Very High	23 Very High	25 Very High			
ПКЕПНООБ	Likely (D)  Between 50% and 90% Chance	7 Medium	12 High	17 High	21 Very High	24 Very High			
	Moderate (C)  Between 10% and 50%  Chance	4 Low	8 Medium	13 High	18 Very High	22 Very High			
	Unlikely (B)  Between 3% and 10%  Chance	2 Low	5 Low	9 Medium	14 High	19 Very High			
	Rare (A) <3% Chance	1 Low	3 Low	6 Medium	10 High	15 High			