RISK ASSESSMENT

Location: 3 Maruata Road - Glenbervie Forest - Whangarei

RISK	HAZARD ORIGIN	CAUSAL FACTOR (1)	Potential Casualties (2)	CONTROL MEASURES
Slipping or stumbling	Obstacles on ground (roots, dead branches)	Env.	A low	Pathways cleared from obstacles Regular maintenance
	Slipping on wet ground	Env.	A low	Warning sign at the entry to the park
Fall	Ignorance of safety techniques	People	S U high	Safety briefing compulsory for each user, each visit Assessment of competence by staff during the practice and test circuit
	User is stressed Peer pressure (e.g. forcing user to take part)	People	U low.	Staff to reassure, help and assist Maximum 2 people per platform/1 person per activity Escape routes
	User is tired	People	U low	Rest areas provided between circuits Staff to advise on circuits' level of difficulty Escape routes to avoid the difficult activities Supplementary information to users with special needs
	User's lack of understanding	People	U high	Safety briefing, practice and test circuit before each session Use of pictograms understandable by all Coloured marks on safety lines and flying fox wires Additional signage and/or staff supervision for technical activities

	Incorrect use of the pulley	People	U low	The pulley provided is especially designed for this purpose Safety briefing before each session Specific introduction to the use of pulley during practice and test circuit Coloured marks on flying fox wires Karabiners to be clipped on flying fox wires as pulley backup
	Failure of safety line Safety line height unsuitable Faulty fastening system	Equ.	S U low	Technical expertise by qualified engineer Daily routine inspections Regular maintenance
	Belaying on guy wire	Equ.	SU low	Warning sign and blocking device on accessible guy wires
	Belaying on tail ends	Equ.	S U low	Securing all tail ends
Falling objects	Use of unsuitable support trees	Equ.	A low	Annual tree health assessment Calculation notes and structural design by qualified engineer.
	Dead branches	Env.	A low	Annual tree health assessment Pruning of support trees and adjacent trees
	Object falling from users	People	A low	Warning at reception Safety briefing Cameras and cell phones not allowed on circuits
	Pulley or karabiner dropping	People Equ.	A low	Lanyards cannot be unfastened by user Captive pins fitted on karabiners
PPE (Personal Protection Equipment) risks	Unsuitable PPE	Equ.	U low	Users to use only the PPE provided by AFL.
	Damaged PPE	Equ.	U low	Staff trained to check PPE PPE checked on regular basis Maintenance recorded on PPE register
	Large person sliding out of harness	Equ.	U low	Compulsory chest harness for large users.
Equipment risks	Construction material not suitable for the activity	Equ.	S U low	Technical expertise and structural design by qualified engineer Components to industrial

	Product toxicity Construction error			standards Safety audit before opening by independent expert
Fire risks	Due to equipment	Equ.	N/A	No ignition source on site
	Due to staff, users or visitors	People	A low	No smoking area Warning sign at the entry Reminder during safety briefing Extinguisher available on site Fire depot at Rayonier Headquarters
Electrical risks	Equipment	Equ.	N/A	No power supply on site
Biological risks	Equipment soiled or contaminated by users	People	U low	Regular cleaning of harnesses and helmets
	Insect bites and stings	Env.	A low	Daily check of installations Repellent available for users First aid kit on site
	Sharp leaves and branches	Env.	A low	Pathways cleared Pruning of support trees and adjacent trees
	Septic waste discharge	People	A low	Toilet facilities provided near the site
Risk from staff	Lack of training	People	S U high	Induction training of staff Regular staff practices: briefings, rescue, emergency situations, PPE checking Written instructions issued to each operator
	New staff	People	S U high	Specific training for new staff New staff to be accompanied by experienced one during practice period
Injury risks	Fall from slippery platform	Equ.	S U low	Use of non slippery decking Routine cleaning of platforms Daily check of installations
	Insufficient free space on activity Fall factor too high	Equ.	U low	Technical expertise by qualified engineer
	Collision between user and visitor	Equ. People	U V low	Signposts on pathways Pathways designed for visitors to keep clear of installations Fence around dangerous areas e.g. flying fox landing zones.

	Collision between users	People	U high	One person maximum on each activity Two people maximum on each platform (Except young users and people with special needs who must be closely supervised by responsible adult: two people on each activity and three people on platforms) Staff to monitor user behaviour Circuit to be temporarily closed in case of overload, or stuck user.
	Obstacles	Equ.	U low	Rounded edges on platforms Pruning of trees Technical expertise from qualified engineer Protection pads wherever needed Bright covers on guy wires
	User not belayed	People	U high	Safety briefing Patrolling staff Children under 12 to be accompanied by an adult on the circuits
	Hair jammed in pulley	People	U high	Precise instruction for tying hair during safety briefing Helmet to be worn at all times Hair ties supplied
	Finger jammed in pulley	People	U high	Precise instruction for placing hands on pulley lanyard during safety briefing Specific introduction to the use of pulley during practice and test circuit
Wilful misbehaviour	Flying fox used upside down User deliberately belays to a device not designed for safety User shaking the rigging Intoxicated user	People	U high	Safety briefing compulsory for each user before entering the circuits Behaviour assessment by staff during the practice and test circuit Patrolling staff Access denied or user expelled in case of inappropriate behaviour
Risks of vandalism	Destruction of or damage to safety system	People	A med	Equipment checked daily before opening Access to platforms lifted and secured when park is closed

Unsuitable clothing	User is barefoot or wears jandals	People	U low	Advice during safety briefing Checking by staff Spare shoes provided
Risk to trespassers	Person using the installation without PPE	People	T high	Warning signs at the entry and on fences Access to starting platforms lifted and secured when park is closed
Meteorological risks	Strong winds Gusts Lightings Thunderstorms Heavy rain	Env.	A high	Weather forecast checked daily Update obtained when changing weather or when bad weather signs appear Park or highest circuits closed in case of bad weather
Risk of stagnant water	Pond/puddle formation due to heavy rain	Env.	V S low	Advice during safety briefing Signpost near damped areas
Risks of mass evacuation	Panic	People	A low	Emergency procedure plan Evacuation training

Keys:
(1) Casual factors: Env. = environnement, Equ. = equipment, People
(2) Potential casualties: S=employees/contractors, U=park Users, V=Visitors/Spectators, T=trespassers, A=all.
Risk level: Low, High, Med (Medium)
PPE: Personal Protective Equipment

Reviews as per SOP.