

Trip management plan: Wairoa River, McLaren Falls Section (IN – Rapid 4 Grade 3, Rapid 4 – OUT Grade 2)

Total length of trip 1 km

Key

Escape options:

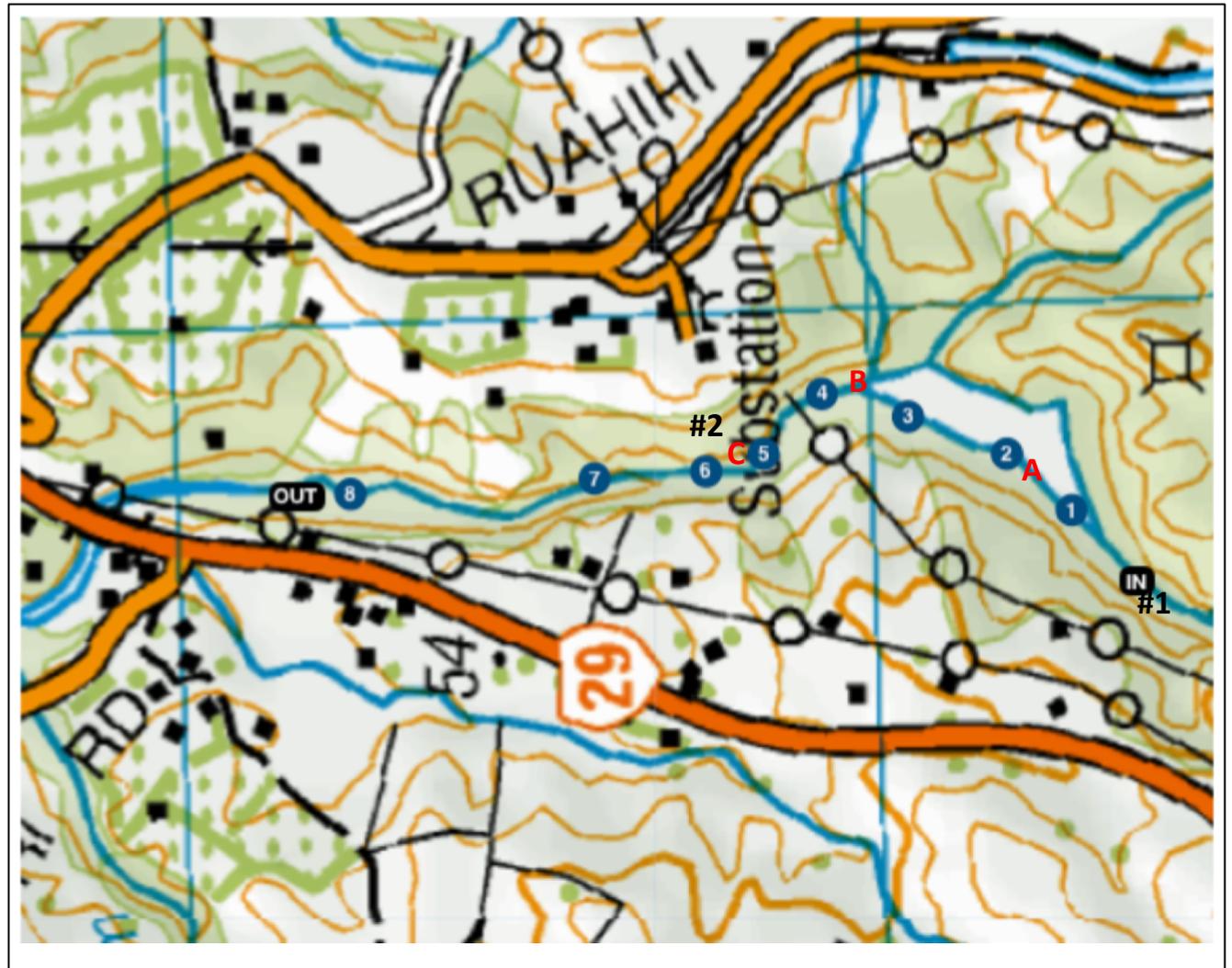
- #1 Access track to Highway 29 via IN
- #2 Access track to Highway 29 via OUT

Major known hazards:

- A. Boulder in flow right channel in Rapid 1
- B. Pour-over river left past big boulder in Rapid 3
- C. 'Bog Rock' recirculating hole at exit Rapid 5

Rapid locations:

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Key Operational Information

Activity	Grade 3 section: Riverbug course suitable for adventurous / experienced participants. Grade 2 section: Riverbug tour suitable for beginners.	Location	Lower Kaimai, Bay of Plenty
Communication equipment and coverage	2 x cell phone or cell phone & satellite messaging device Cell coverage	Access permission information	Put in access is via a 'user pays' walking track provided for paddlers by the local farmer. No permission is required. Location: 1449-1603 State Highway 29, Tauriko, Lower Kaimai 3171, Coordinates: -37.792568, 176.048044 Take out access is via a council owned track, location: 1441 State Highway 29, Tauriko, Lower Kaimai 3171, Coordinates: -37.783373, 176.051054
Specific operation policies	<p>Key operation policies for the activity: Operating flows: 8 – 20 m³/s https://envdata.boprc.govt.nz/Data/DataSet/Chart/Location/C0884445/DataSet/Discharge/Primary/Interval/Latest</p> <ul style="list-style-type: none"> • Participant screening: Grade 3 section ≥ 13 years, ≤ 100 kg, fit and able, can swim. Grade 2 section ≥ 125 cm tall, ≤ 120 kg, fit and able, can swim • Participant : Guide Ratio: Grade 3 section 5 : 1, Grade 2 Section 7 : 1 (solo guide) 16 : 2 (2 guides) Ratio will be adjusted down relative to participants' ability to participate safely in the activity, taking into account factors such as: physical condition, special needs and language/comprehension difficulties. • Guide positioning: Lead guide – leads from the front, may change order if advantageous, keep participants in view. Second guide – sweeps from behind, if advantageous, keep participants in view. 	Other information relevant to activity	The Wairoa whitewater section river flow is controlled by Trust Power BOP and is released for 26 days a year September – May, between 10 am – 4 pm, with a guaranteed flow of 15 cms. Rain can also raise the river to sufficient levels on non-release days.

Equipment	<p>Participant Equipment</p> <ul style="list-style-type: none"> Riverbug, wetsuit, booties, PFD, helmet, gloves, fins <p>Guide Equipment</p> <ul style="list-style-type: none"> Provided: Booties, Fins, Gloves Required: Wetsuit/drysuit, Helmet, PFD with cows tail & whistle, river knife, throw bag, cell phone, 	Participant Briefing	<ul style="list-style-type: none"> Language/comprehension difficulties? Physical/medical problems? Medication? Glasses or contact lenses? Disclosure of risks River signals: Help & OK, go/direction, stop, feet-up, attention/emergency, Safety technique: Whitewater swimming, self rescue, rafting-up, hazards Paddling technique: forwards, backwards, turning, hold-on, balance/weight shift Other users: Stay out of the way of other craft, let faster craft through. Location of emergency equipment, Emergency Response Card and how to use the communication devices. Procedure in case of incapacitated guide. Location of our Emergency Plan.
Previous relevant incidents	Swimmers in Bog Rock hole (source: other operators)	Escape options	Foot access via the IN access track: 1449-1603 State Highway 29, Tauriko, Lower Kaimai 3171, Coordinates: -37.792568, 176.048044, and the OUT access track: 1441 State Highway 29, Tauriko, Lower Kaimai 3171, Coordinates: -37.783373, 176.051054 There is a good track along the riverbank from Rapid 5 to the OUT access. It is also possible to access farms close to the roads through the bush lining the riverbank. Other options: Raft or Heli-vac
Specific emergency equipment required	<ul style="list-style-type: none"> Throw bag First aid kit Pruning saw 	Emergency response	111 St John 0800 7485646 Tauranga Hospital 07 579 8000 Tauranga Police 07 577 4300 <ul style="list-style-type: none"> Emergency procedures refer to the Emergency Response Card

<p>Key Emergency Procedures –</p> <p>Code GREEN: Minor, can complete trip or evacuate by foot</p>	<p>Participants treated and able to safely continue (Examples: Mild reaction to insect stings, minor asthma attack, dislocated finger contusions). Emergency strategy – refer to the Emergency Response Card.</p> <p>One Guide Trips:</p> <ul style="list-style-type: none"> • Call management or back-up person, or send Code GREEN message if no Cell • Continue the trip. Participant(s) who required treatment are monitored, keep them close to, and assisted by guide as necessary • Arrange any further care as needed. <p>Two Guide Trips:</p> <p>In addition to the procedures for one guide trips, the 2nd guide will:</p> <ul style="list-style-type: none"> • 2nd guide assists with the emergency and group management • 2nd guide accompanies participants in any escape route evacuation while lead guide continues trip with remaining participants if safe to do so 	<p>Key Emergency Procedures –</p> <p>Code ORANGE: not life threatening, but requires evacuation</p> <p>Options:</p> <ol style="list-style-type: none"> 1. By foot 2. Helicopter 	<p>Participants treated are stable but not able to safely continue. (Examples: minor fractures, lacerations, mild hypothermia) The remaining participants may continue trip if safe to do so once evacuation is complete. Emergency strategy – refer to the Emergency Response Card..</p> <p>One guide trips:</p> <ul style="list-style-type: none"> • Call management or back-up person, or send Code ORANGE message if no Cell • Evacuate patients from emergency site. Evacuate rest of group if not safe to continue. • If safe to do so: Continue to nearest escape route with remaining participants and evacuate group by foot, or complete the trip. • Contact: management/back-up person as soon as have cell coverage <p>Two Guide Trips:</p> <ul style="list-style-type: none"> • 2nd guide assists with the emergency and group management • 2nd guide manages any evacuation by foot while Lead guide monitors patient
<p>Key Emergency Procedures –</p> <p>Code RED: life threatening, immediate evacuation</p> <p>Options:</p> <ol style="list-style-type: none"> 1. Helicopter 2. Foot 	<p>Participants treated are in a serious condition. (Examples: severe anaphylactic shock, compound fractures, severe head trauma) The remaining participants should also be evacuated from emergency site if possible. Emergency strategy – refer to the Emergency Response Card.</p> <p>One guide trips:</p> <ul style="list-style-type: none"> • Call management or back-up person, or send Code RED message if no Cell • Heli-vac patients from emergency site • Evacuate rest of group from the emergency site • Manage the group and ensure everyone is OK <p>Two Guide Trips:</p> <ul style="list-style-type: none"> • 2nd guide assists with the emergency and group management • 2nd guide manages any evacuation by foot while Lead guide monitors patient 	<p>Overdue trips</p>	<p>Trips are considered overdue when:</p> <ul style="list-style-type: none"> • Trips fail to check-in with management or back-up person within 2.5 hours from departure <p>Procedure for overdue trips</p> <ul style="list-style-type: none"> • Management or back-up person calls guides’ cell phone • Management or back-up person tracks trips progress • If trip as been stationary for over 45 minutes and no emergency activation has been received, call emergency services

Vehicle shuttles procedure	When running vehicle shuttles ensure: <ul style="list-style-type: none"> • Participants' change of clothes are in the vehicle • Keys to the vehicles are available • Vehicles are parked correctly • Safe driving practices 	Incapacitated solo guide	Procedures for incapacitated solo guides <ul style="list-style-type: none"> • Location of First Aid, Emergency Response Card, and communication equipment • Stop the trip in a safe place and assist the guide, provide First Aid. Stay together • Notify Emergency services • Cell Phone is unlocked Dial 111 and state emergency. Or if no cell coverage activate Satellite Messaging device by pressing the Emergency button. • Keep group together and wait for emergency services.
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Safety Management

Map key reference	Significant Hazard	Management Strategy
A	Boulder in flow right channel Rapid 1. Has a pillow wave. Possible capsize or entrapment. Can be avoided. (Assessed by Don Allardice 29.09.19)	Direct participants away from hazard
B	Pour-over river left past large boulder halfway in Rapid 3. Capsize and possible pin potential. Can be avoided. (Assessed by Don Allardice 29.09.19)	Direct participants away from hazard
C	'Bog Rock' hole. Recirculating hole mid-river in the exit of Rapid 5. Requires manoeuvring to avoid. (Assessed by Don Allardice 29.09.19)	Run one at a time, direct participants away from hazard or portage
	Rapids / Access Description and Details	Management Strategy
IN	Access across farmland to the midway point of the Wairoa McLaren Falls section. The put in track through bush is stepped in places, and could be slippery when wet. The last part to the river is steeper	Care walking over rocks, pfd's and helmets worn, briefing and skills practice at put in pool.
1	Technical boulder lead-in with multiple eddies, small bushes growing in flow river left, and middle where the current splits at the entry to the crux drop – both easy to avoid, stopper waves below drop can surf/capsize, boulder in right channel flow (assessed by Don Allardice 29.09.19).	Truck-and-trailer, direct participants away from small bush (on river left), eddy out River left above crux drop, run one at a time and eddy out below rapid
2	Technical boulder lead-in with multiple eddies, small bush growing in flow river left that is easy to avoid, river splits into 2 channels, small pin-rock underwater on left side of left entry drop.	Truck-and-trailer, direct participants away from small bush (on river left), eddy out river left above left channel entry, run one at a time, direct participants away from pin rock on the left, eddy out river right below drop.

3	Long technical rapid with some small stoppers and a pour-over river left opposite a large boulder (capsize and pin potential)	Truck-and –trailer
4	Surf Wave Rapid	Truck-and-trailer, participants can try surfing.
5	Bog Rock Rapid, river narrows between bedrock riverbank, recirculating hole middle in flow	Run one at a time, direct participants away from hazard or portage
6	Short dog leg rapid	Truck-and-trailer
7	Bouncy waves	Truck-and-trailer
8	Short rapid with a chute leading into bouncy waves river right. Though the bedrock riverbank river right at rapid exit is undercut, a rock by the undercut protects it.	Direct participants away from undercut
OUT	River left after #8	Take out and walk track to car park
Natural Emergencies / Disasters		
	Major Earthquake	<p>*Prior to trip: Do not run trip until section is scouted for new hazards and cleared as safe to do so.</p> <p>*During trip: Bring group together and form a raft and stay clear of possible falling debris if on gorge. In case of rising water from dam breach evacuate to high ground only if safe to do so, otherwise stay rafted up together until able to safely evacuate from river.</p>
	Forest Fire	<p>*Prior to trip: Do not run trip if known forest fire could put group in danger (smoke, heat, flames, flying embers)</p> <p>*During trip: Continue trip to take out point only if safe to do so. If not safe to continue, seek shelter from danger (smoke, heat, flames, flying embers) and evacuate if safe to do so, otherwise inform rescue services wait for rescue.</p>

	Flash Flood during trip	*Evacuate to safety of high ground as soon as possible, if not possible bring group together and raft-up for stability until possible to evacuate from river.
Approved by: Don Allardice	Date: 06.07.2022	Review due: July 2023, or: if hazard changes, trends emerge, or there's a reportable incident