

# Water Plan

## *Pyrenees Ponder* Australasian Championships

8-9 October 2022



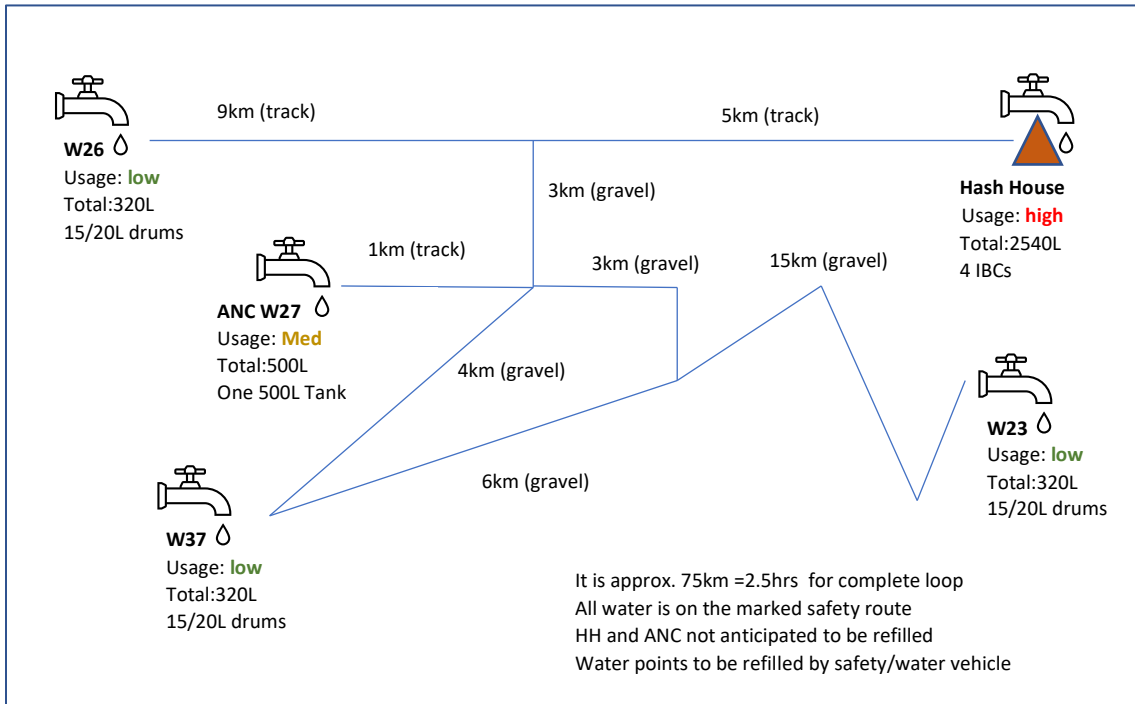
### Responsibility

Water at the event, including all resupply, is the responsibility of the Event Coordinator Greg Robinson.

### Assumptions

- a) The maximum number of competitors is 300 for the 24-hour event and 130 for the 6-hour event.
- b) The location and time of year indicate that the weather will be cool to mild, though the plan provides for warmer than average conditions at the time (daytime low 20s and altitude 320 to 790m). This will be assessed via BOM forecasts in the week prior to the event.
- c) All competitors will bring and start the event with their own supply of water (2-3 litres). Provision will be made for bus passengers (40 x 3 litres = 120 litres).
- d) No significant natural supplies (creeks and dams). Water may be available from the Campbells Creek Cameron's Shelter but is not an official water point and quality is unknown.
- e) Each 24-hour competitor will resupply with 6 litres during the event. Assuming 50 will resupply at the HH and the other 250 will resupply at other points.
- f) Each 6-hour competitor will resupply with 2 litres during the event. Assume 50 will resupply at the HH and the other 80 will resupply at other points.
- g) Additional water will be used at the HH and ANC for food preparation and cleaning – approximately 150 litres at each site.
- h) After midday Sunday, assume 1 litre per person will be used = 350 litres.

### Water Plan Summary



## Water Capability

### Volunteers

The following 7 volunteers are dedicated to water/safety during the event:

- Merv, Vic, Duncan
- Steve, Sarah
- Martina and Stephen

The team is experienced in driving the roads. Additional staff will be always available at the HH including the Event Director Greg Robinson and Admin Manager Karen Robinson.

### Vehicles and Roads

It is a 2WD road surface in dry weather to all water points on the course. It may be rain effected, and as such the available vehicles for water and rescue are:

- Land Cruiser
- Prado
- Prado
- Land Rover
- Subaru

### Comms

Higher parts of the course will have comms via 3/4/5 G network.

The Hash House has a dedicated 3/4/5G booster and suitable comms to outside (i.e. Melbourne).

A sat Phone is available at the HH should comms become difficult.

## Water Usage Estimate

	People	Usage	Total
Bus Entrants	40	3	120
24hr Entrants	250	6	1500
6hr Entrants	130	2	260
Volunteers	40	3	120
HH food preparation			150
ANC food preparation			150
HH post event (6hr)			120
HH post event (24hr)	350	1	350
		Total	2770

## Water Order

VRA has estimated 4000 L total for the event to cover all circumstances. Four 1000 L IBC containers of water are ordered for delivery to the HH. It is expected that some cubes will be filled from town (Avoca) water.

## Water Vessels Used



1000L IBC



500L tank



15/20L Cube container

## Water Strategy

- Advise entrants in Final Instructions to bring water to event
- Water delivery three days before event
- Water on course pre-filled day before event, checked on morning
- Remind entrants to take care for spillage when refilling at water points.
- Course setter notes will highlight that creek, dam and surface water is unsafe to drink. Final instructions will alert competitors to bring sterilisation tablets should they choose to use water other than official water points.
- Utilise volunteers who are familiar with the roads in the area.

## Water Distribution

At the **start of the event**, the following potable water will be in place. Water will be initially sourced from the IBCs, though we will endeavour to source local town water to fill drums where possible

Water point	Type of container	No. of containers	Volume in litres (at start)
HH	Water IBC with multiple taps	4 x 1000 litre IBC	2240
ANC W27	Water IBC with multiple tap	1 x 500 litre tank	500

		5 x 20 litre	
W23	Water containers with hand pump	4 x 15 litre 13 x 20 litre	320
W26	Water containers with hand pump	4 x 15 litre 13 x 20 litre	320
W37	Water containers with hand pump	4 x 15 litre 13 x 20 litre	320
Vehicle	Water containers	10 x 20 litre	200
<b>Total water on the course at the start of the event</b>			<b>4,000 litres</b>

## Bottle and Cube supply

Vessel Type	Quantity
IBC	4
500L tank	1
20L cube	54
15L cube containers	12

## Risks

We know that water consumption at water points will not be evenly distributed. Given the course layout, it is likely that W26 and the ANC will experience greater demand for water resupply. Accidental spillage and theft can affect the supply.

For example, a worst-case scenario – 200 people go to water 26 in the first 8 hours. This would require 200 x 2 litre = 400 litres; well in excess of our planned 320 litre supply outlined in the table above, however, with the water/safety patrol there will be an additional 300 to 400 litres available for resupply in the 8-hour period.

Risk	Other conditions making risk worse	Likelihood	Measure to address risk
Major of fatal injury to athlete - running out of water at the HH, unable to resupply water points		Low	Estimated total consumption, externally reviewed by ARA, water order in excess of the expected maximum.
	IBC water taps left on	Low	Laminated sign reminding users to turn the tap off at HH and ANC. Hand pumps used at unmanned water locations (thus can't be left on).
Major of fatal injury to athlete - running out of water at <b>water point</b>	Water vehicle unusable	Low	Multiple 4WD/AWD vehicles available to perform water resupply task
	Volunteer unavailable	Low	Multiple volunteers available in HH to perform water resupply task
	Roads to Water points unusable	Low	Roads and Tracks to water points assessed as 2WD. Water will be delivered early in the event of a weather concern. 4WDs utilised to service water regardless of weather/road conditions.
	Water cubes stolen	Medium	See individual water point descriptions. Cubes placed a day before event to minimise time left alone. ANC staffed overnight, water trailer secured with chain and hitch lock. Medium risk water

			points have cubes chained to secure them being stolen. Water points checked every 4 hours by vehicle for possible theft.
	Water cubes tipped over	Low	Pumps in lids attached to bottles to eliminate need to tip the bottle over. Rogainers asked to be especially careful as water refills are remote.
	High water demand at W26	Medium	Start with 320 litres. Undertake planned check every 4 hours. 150 to 200 litres available for refills each 4 hours. i.e.. Up to 900 to 1200 litres extra available at water stops if required.
	Hot weather	Low	Emphasise in final instructions and briefing for rogainers to bring sufficient water to the event to start with a full supply and to carry sterilisation tablets. Over-order water at HH to compensate. Event planned early October in usually mild/cold weather conditions.
	Response required to other incident on course	Moderate	Multiple vehicles permanently assigned to the water/safety patrols. There will be additional 4WD vehicles at the HH to respond to other emergencies or to do water drop runs if the water/safety patrol vehicle is required for an emergency or unavailable.

## Resupply Plan

Water/Safety patrols will be undertaken at 4 hourly intervals on the safety route, passing through each water stop and the ANC. The vehicle used will carry 150 to 200 litres of water to resupply the water stops as required.

- A. Hash House - Water IBC – 4 x 1000 litres**
- B. Water Vehicle - 10 x 20 litre containers**

Two cubes to be placed near the HH Admin and Catering area. One cube used for HH supply and the other for resupply to competitors at the HH and for resupply to the outer water stops. The 15 x 20 litre drums will be for the resupply vehicle for the outer water stops. Risk of interference: **Low** as it is staffed by volunteers at all times.

### **C. ANC - Water tank**

The water tank (500 litres) will be placed next to the ANC on a trailer (to elevate it from the ground). Initial supply from Hash House. The ANC will be visited on a 4 hourly basis as part of the water/safety patrol route. It is not expected that ANC water resupply will be required during the event, however, if the water in the tank gets below 200 litres, the water/safety patrol vehicle can be used to resupply. Tank will be mounted on a trailer with cable lock and a hitch lock and will be placed Friday. Risk of interference: **Low**. Chain and hitch lock the trailer on which the tank is mounted to minimise theft.

### **D. Water drop 23 – Southeast – 13 x 20 litre + 4 x15 litre containers**

This water drop is on the south-east side of the course and is not expected to have high initial demand. This will be regularly checked at approx. 4-hour intervals by the safety/water patrol for the over the 24-hour event period. Access to Water 23 is via the Main Ridge Road, an all-weather road suitable for two-wheel drive vehicles. Highest risk of being stolen, 10m off road. Risk of interference: **Medium**. Cubes chained to mitigate the risk.

**E. Water drop 26 – Northwest - 13 x 20 litre + 4 x15 litre containers**

This water drop is near the northwest corner of the course. It is likely to have higher demand as the Northern part of the course is relatively flatter. This will be regularly checked at approx. 4-hour intervals by the safety/water patrol. Access to W26 is via Cactus track which is suitable for two-wheel drive vehicles. It is placed on a non-through road and has very little traffic. Risk of interference: **Low**.

**F. Water Drop 37 – South Central - 13 x 20 litre + 4 x15 litre containers**

This water drop is located western side of a hut (on private property, out of sight of the road) and is directly accessible from the Glenlofty- Warrenmang Road which is an all-weather road suitable for two-wheel drive vehicles. This will be regularly checked at approx. 4-hour intervals by the safety/water patrol.

Risk of interference: **Low**.

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