

Version No:	9
Issue Date:	03/10/23
Portfolio:	Discrete Water Quality
horizons regional council	

Horizons Regional Council

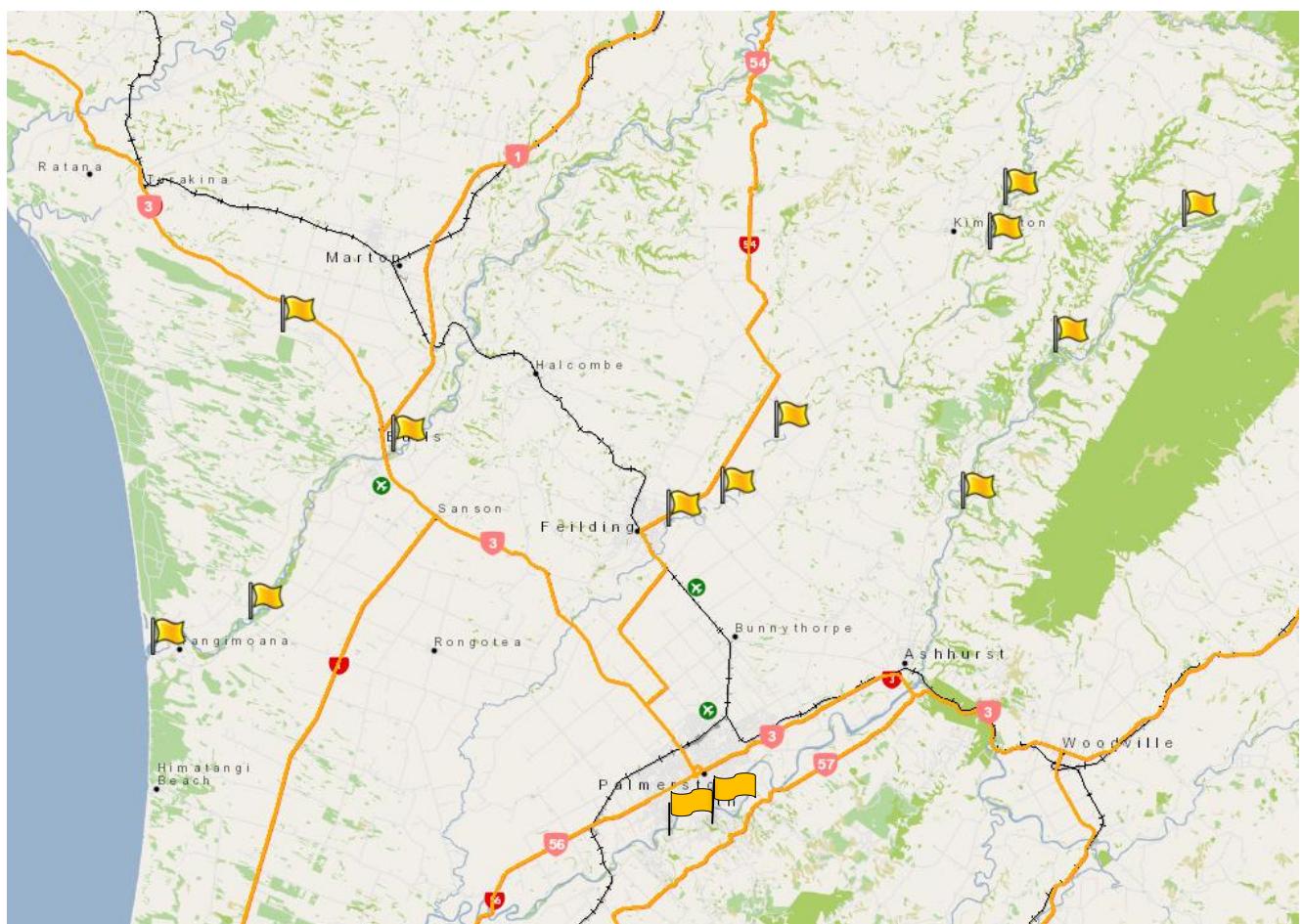
Section No:

Appendix No:

Page: 0 of 35

Hydrology Operations Manual

Contact Recreation Guide Run 3



	Site Name	Northing (NZTM)	Easting (NZTM)
1	Pohangina at Raumai Reserve	5545260	1837494
2	Pohangina at Totara Reserve	5554644	1842961
3	Pohangina at Piripiri	5562293	1850639
4	Oroua at Londons Ford	5563565	1839891
5	Oroua at Bartletts Ford	5560886	1838990
6	Oroua at Almadale	5549637	1826347
7	Oroua at Feilding Rd Br	5545696	1823162
8	Oroua at Timona Park	5544337	1819934
9	Rangitikei at Bulls Bridge	5548794	1803690
10	Rangitikei at McKelvies	5538733	1795242
11	Rangitikei River at Estuary	5536807	1789649
12	Manawatu at u/s PNCC STP (Waitoetoe Park)	1820331	5526269
13	Manawatu at Fitzherbert	1822712	5527533

Version 9	Created: 03/10/23	Updated by: Izzie Hodgson
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Job Hazard & Task Analysis

Hazard Identification – tick all that apply, write additional hazards identified:

The yellow highlighted hazards are known hazards at the time of compiling this document. This **does not negate** the need to assess for and potentially eliminate or isolate any hazards at each sample location at every visit

Hazard	Yes	Hazard	Yes	Hazard	Yes
Confined space	<input type="checkbox"/>	Suspended loads	<input type="checkbox"/>	Noise – plant and equipment	<input type="checkbox"/>
Difficult entry/exit	<input checked="" type="checkbox"/>	Falling objects	<input checked="" type="checkbox"/>	Communication – means of	<input checked="" type="checkbox"/>
Oxygen deficiency/excess	<input type="checkbox"/>	Working near cranes and crane runways	<input type="checkbox"/>	Remote area	<input checked="" type="checkbox"/>
Poisonous fumes/gas	<input type="checkbox"/>	Live rails-gantry cranes	<input type="checkbox"/>	Temperature extremes	<input checked="" type="checkbox"/>
Explosive gas	<input type="checkbox"/>	Trip hazards	<input checked="" type="checkbox"/>	Reduced visibility	<input checked="" type="checkbox"/>
Flammable materials	<input type="checkbox"/>	Slippery surfaces	<input checked="" type="checkbox"/>	Unauthorized persons	<input type="checkbox"/>
Combustible materials	<input type="checkbox"/>	Manual handling	<input type="checkbox"/>	High pressure water	<input type="checkbox"/>
Hazardous substances	<input type="checkbox"/>	Sharp materials	<input type="checkbox"/>	Vacuum	<input type="checkbox"/>
Drowning	<input checked="" type="checkbox"/>	Line of fire	<input type="checkbox"/>	Air emissions – dust, fumes	<input type="checkbox"/>
Engulfment	<input type="checkbox"/>	Pressurized fluids	<input type="checkbox"/>	General waste	<input type="checkbox"/>
UV Radiation	<input checked="" type="checkbox"/>	Pressurized air/gas	<input type="checkbox"/>	Hazardous waste	<input type="checkbox"/>
Electrical – low /high voltage	<input type="checkbox"/>	Traffic / vehicle movements	<input checked="" type="checkbox"/>	Hydrocarbon / chemical spill	<input type="checkbox"/>
Multiple electrical feeds	<input type="checkbox"/>	Machinery – mobile plant	<input type="checkbox"/>	Soil disturbance/erosion	<input type="checkbox"/>
Working at height	<input type="checkbox"/>	Moving parts	<input type="checkbox"/>	Habitat disruption	<input type="checkbox"/>
Ladders	<input type="checkbox"/>	Chemical reaction (Pyrophoric iron)	<input type="checkbox"/>	Lighting	<input type="checkbox"/>
Elevated work platforms	<input type="checkbox"/>	Transport of hazardous substances	<input type="checkbox"/>	Weather extremes	<input checked="" type="checkbox"/>
Potential for difficult rescue	<input checked="" type="checkbox"/>	Stock/Farm Animals	<input checked="" type="checkbox"/>		

Required PPE & Safety Equipment– tick all that apply, write additional PPE required:

The yellow highlighted PPE are known required PPE at the time of compiling this document. This **does not negate** the need to assess for the appropriate required PPE measures at each sample location per visit.

SAMPLING GLOVES	EAR PROTECTION	HARD HAT	SAFETY GLASSES / GOGGLES	WORK BOOTS / WADERS	PROTECTIVE GLOVES	PERSONAL FLOTATION DEVICE (PFD)
						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HI VIZ	SAFETY HARNESS	SUN BLOCK & HAND SANITISER	VHF RADIO	THROW BAG	PERSONAL LOCATOR BEACON	
						
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Known Hazard	Significant		Can it be Eliminated		Can it be Isolated		Method of control
	Yes	No	Yes	No	Yes	No	
Drowning	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Staff should use a sample pole if access into the river/stream is unsafe. PFD's must be worn by staff. Always carry a personal locator beacon. It is always preferable to have someone else with you at all times when working around water [HMP 18]
UV Radiation	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Horizons provide sunscreen and hats. Staff are encouraged to make use of these. [HMP 17]
Difficult Entry/Exit	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Entry and exit into waterways poses many risks and should be treated with caution. Sampling must be done from stable level ground. Staff should use a sample pole if access into the river/stream is unsafe. PFD's must be worn by staff and staff must be trained for working around water. [HMP18]
Electrical-Low/High Voltage	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Many of the rural sampling sites require traversing across farm paddocks equipped with electric fences that contain stock. If unknown, treat every farm fence as electric and avoid direct contact. Contact the landowner for advice on whether or not the fence is live and discuss alternative routes or options for avoiding the fence if possible.
Potential for Difficult Rescue	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Sampling must always be done from stable level ground. Staff should use a sample pole if access into the river/stream is unsafe. PFD's must be worn by staff and staff must be trained for working around water. Vehicles must be driven a sensible distance from any river or pond edges. Always carry a throw bag when working around water and have a personal locator beacon on hand. It is always preferable to have someone else with you at all times when working around water [HMP18]
Trip Hazards	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Prior to sampling, staff must check area is clear of items that pose a risk. Trip Hazards should only be moved if safe to do so. Sampling only to commence if the sampler is satisfied that any slip, trip or fall hazards are isolated.
Slippery Surfaces	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Sampling must be done from stable level. Vehicles must be driven a sensible distance from any river or pond edges. [HMP 18]. Staff driving four wheel drive vehicles must have adequate training [HMP 9]
Traffic Vehicle Movements							The designated driver of a vehicle is responsible for ensuring the safety and operational requirements and recommendations are met. All staff working within the road reserve must wear high visibility clothing to AS/NZS 1906.4:2010. This clothing must be fluorescent red orange in colour unless the individual is the site STMS then the garment must be fluorescent lime yellow. [HMP 9] [HMP 16] [HMP 20].

Field Site Location Guide – Contact Recreation Run 3

Known Hazard	Significant		Can it be Eliminated		Can it be Isolated		Method of control
	Yes	No	Yes	No	Yes	No	
Stock/Farm Animals	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Although generally docile, farm animals can still be hazardous. The risk should be isolated by finding alternative access routes to the sample location or contacting the owner for assistance. [HMP26]
Communications-Means of							Cell phone coverage is not available at all sites. Staff must be capable of communicating via VHF radio in an equipped vehicle. [HMP 24]
Remote Area	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Most council vehicles are fitted with the E-Road vehicle locator system. Many vehicles are also fitted with a radio operating on the Horizons digital radio network providing communication and tracking coverages across a majority of the region. [HMP 24]
Temperature/Weather Extremes	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	During the duration of a sampling run varying types and degrees of weather may be experienced. All sampling staff are to have access within their HRC vehicle to additional and appropriate clothing. Staff must have access to suitable PPE and spare clothing within their vehicle. [HMP 18]
Reduced Visibility	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	If you find you are driving in limited visibility slow your driving speed and turn your fog lights on and watch out for vehicles that aren't using their lights. When working in limited visibility if you cease to able to make out your surrounding environment stop work immediately. If working at night it is advisable to traverse the property in daylight first to map out an action plan outlining walking tracks, vehicle tracks, fence lines, stock positions, ponds, waterways, houses, and sheds as well as other significant items of interest. [HMP12]

EQUIPMENT REQUIRED

Sample Bottles	1 L Bottle	500 ml Bottle	100 ml bottle	50 ml tube	Red-top bacto bottle
Contact Recreation					x15 (one for temperature reference) 
Hilltop Sampler Numbers	<ul style="list-style-type: none"> • 14 sample numbers 				
Meters/Equipment	<ul style="list-style-type: none"> • Chilly Bin, Slicker pads • Camera • GPS • Field Sampling Sheets • Bottle ID stickers • Vivid and pens • Thermometer 				

METHOD

- For all sites take one sample in a red lid sterile bacto bottle:
 - At the site dip the entire bottle below the surface of the water and open it under water without disturbing the surface. This is to avoid collection of surface bacteria in the sample.
 - Tip out excess water to create a small gap of air at the top of the bottle.
 - Wipe the bottle off with a towel, attach the hilltop generated number and place this in the chilly bin.
 - Fill in field notes.
 - At lake sites there's an additional one litre bottle, adopt the same approach using the large one litre bottles. Label the bottle with the name of lake, the date, time and temperature.

Pohangina at Raumai Reserve (25 mins from Palmerston North)

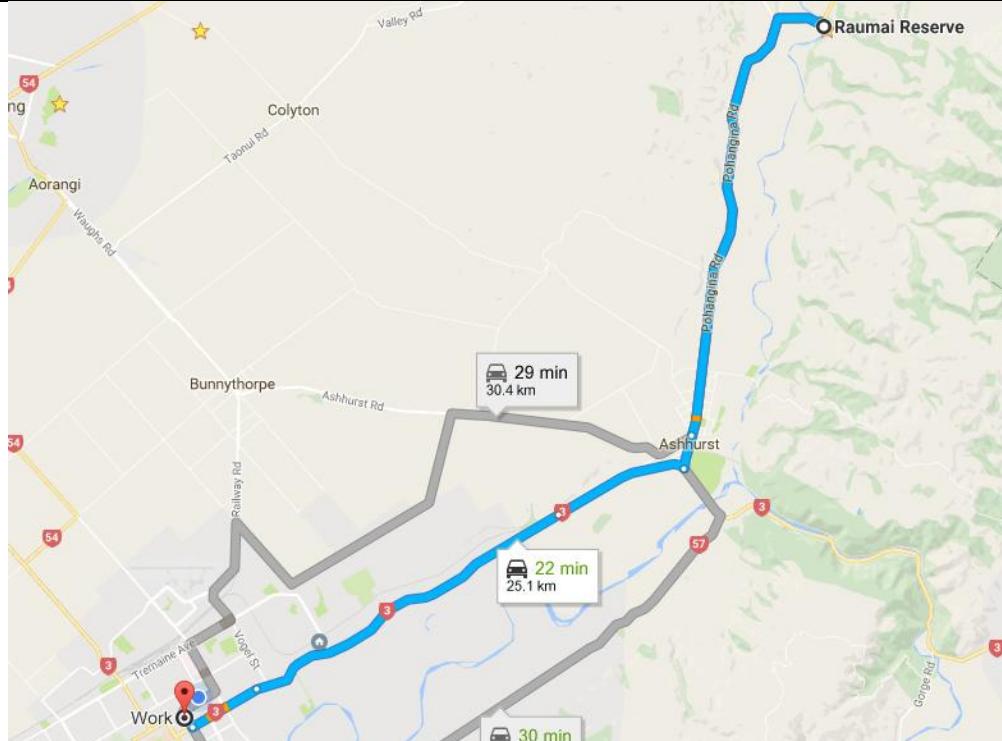
This site requires a cliff hazard to be taken. Refer to photos on other side for guide

POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):

Drowning	UV Radiation	Slippery surfaces	Trip hazards
Difficult entry/exit	Potential for difficult rescue	Remote Area	Traffic / Vehicle Movements
Weather/Temperature Extremes			

REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	HI-VIS	VHF RADIO	SAMPLE POLE



- From the Horizons building turn left on Victoria Avenue until you reach the Main Street lights. Turn left onto Main Street and follow the signs to Ashhurst
- Turn left off the Hwy into Ashhurst (sign posted Manawatū Scenic Route) and drive through Ashhurst on the main road (Cambridge Ave).
- This turns in to Pohangina Rd, continue straight ahead out of town.
- Continue on this road for roughly 8km and turn right onto Pohangina Valley East Road (sign posted for Totara Reserve)
- 900 m along this road before the road crosses the bridge, pull off to the right at the sign that says Raumai Reserve. Park in the reserve.
- Walk down the path at the end of the reserve to the river and sample as indicated by the black dot in the below map.

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Pohangina at Totara Reserve

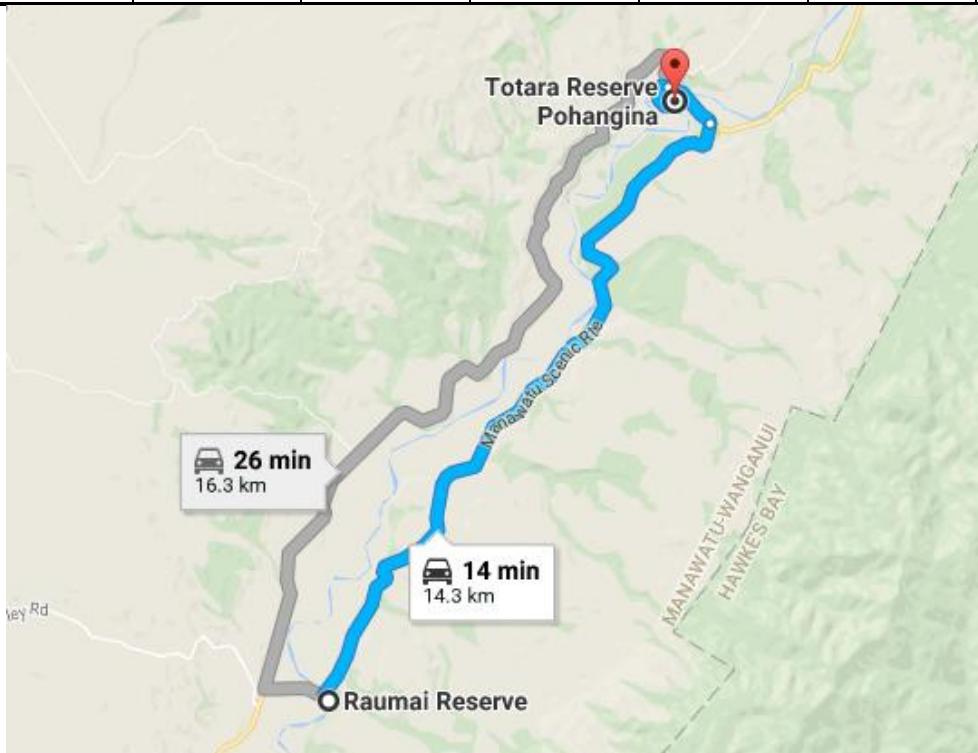
This site requires a cliff hazard to be taken. Refer to photos on other side for guide

POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):

Drowning	UV Radiation	Slippery surfaces	Trip hazards
Difficult entry/exit	Potential for difficult rescue	Remote Area	Traffic / Vehicle Movements
Weather/Temperature Extremes			

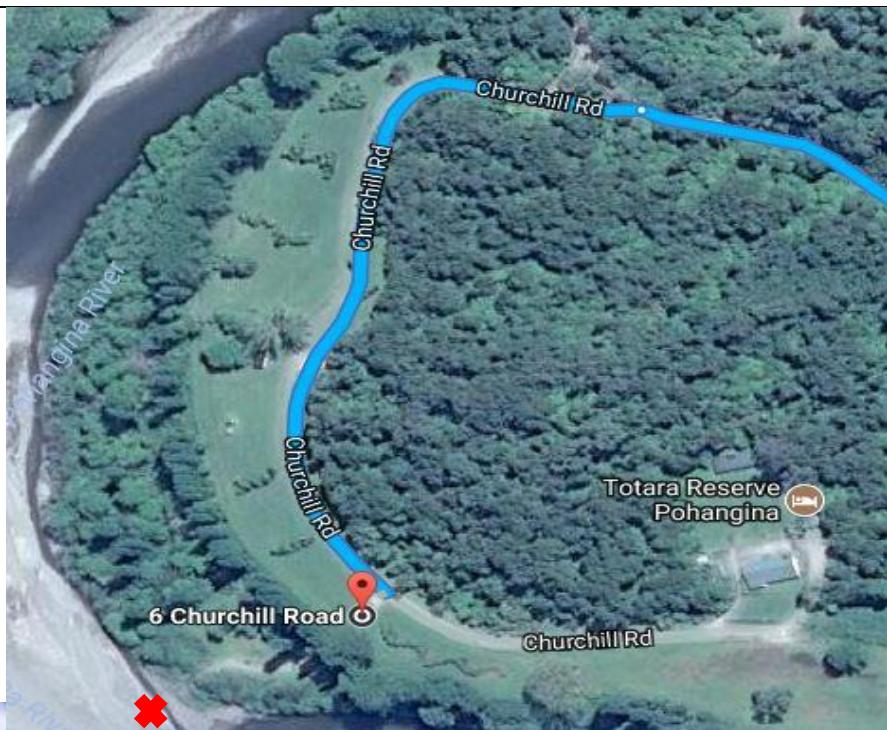
REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	HI-VIS	VHF RADIO	SAMPLE POLE	



- Go back to the bridge and turn right over the bridge on Pohangina Valley East Road
- After 12.7 km turn left turn at the fork in the road onto Churchill Drive, as you pass Highland Home Christian Camp on the right.
- Continue down and enter at the campgrounds.
- There is a track leading down to the river from Totara Reserve. Sample just there.
- Park at the area marked by the red cursor, you can access the river from this point, sample at the spot marked by the red X.

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Pohangina at Piripiri (13 minutes from previous site)

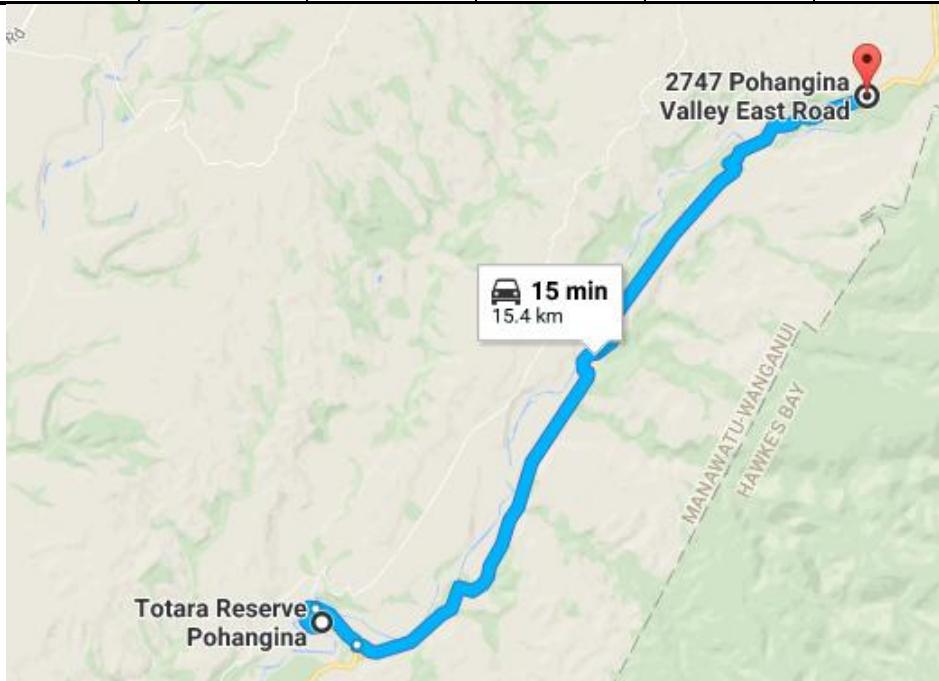
This site requires a cliff hazard to be taken. Refer to photos on other side for guide

POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):

Drowning	UV Radiation	Weather/Temperature Extremes	Trip hazards
Difficult entry/exit	Potential for difficult rescue	Remote Area	Traffic / Vehicle Movements

REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	HI-VIS	VHF RADIO	SAMPLE POLE	



- Exit the camping ground and head back the way you came along Churchill Drive
- Turn left onto Pohangina Valley East Road heading north.
- Follow this road for approx. 10 minutes
- Just before you cross a one lane bridge there is a track on the left hand side with a DOC campground sign. Drive down there and park. There is a track leading to the river. Sample under the bridge (SOE site).

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Ōroua at London's Ford (38 minutes from previous site)

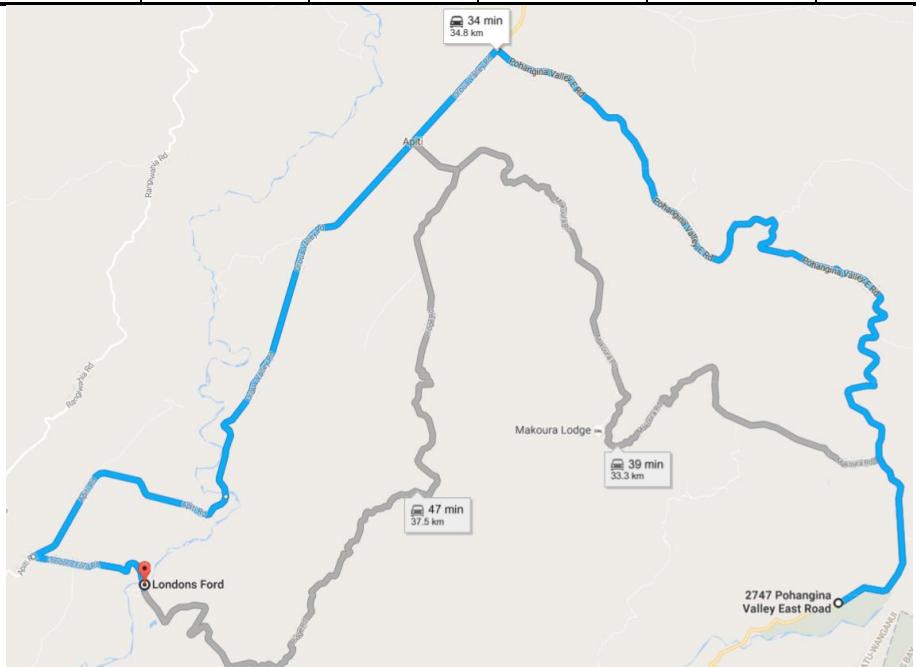
This site requires a cliff hazard to be taken. Refer to photos on other side for guide

POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):

Drowning	UV Radiation	Slippery surfaces	Trip hazards
Difficult entry/exit	Potential for difficult rescue	Remote Area	Traffic / Vehicle Movements
Weather/Temperature Extremes			

REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary)

WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	HI-VIS	VHF RADIO	SAMPLE POLE	



- Turn left back and continue north along the Pohangina Valley East Rd, which turns into Manawatū Scenic Rte.
- This will come to an end at an intersection on Ōroua Valley Road after approx. 20 mins.
- Turn left on Ōroua Valley Road, continue through Apiti, and continue on Apiti Rd.
- After 10km turn left onto London's Ford Road.
- Just after the bridge is a sign for London's Ford, turn right and follow to camping ground. Follow the path to the river.

Field Site Location Guide – Contact Recreation Run 3



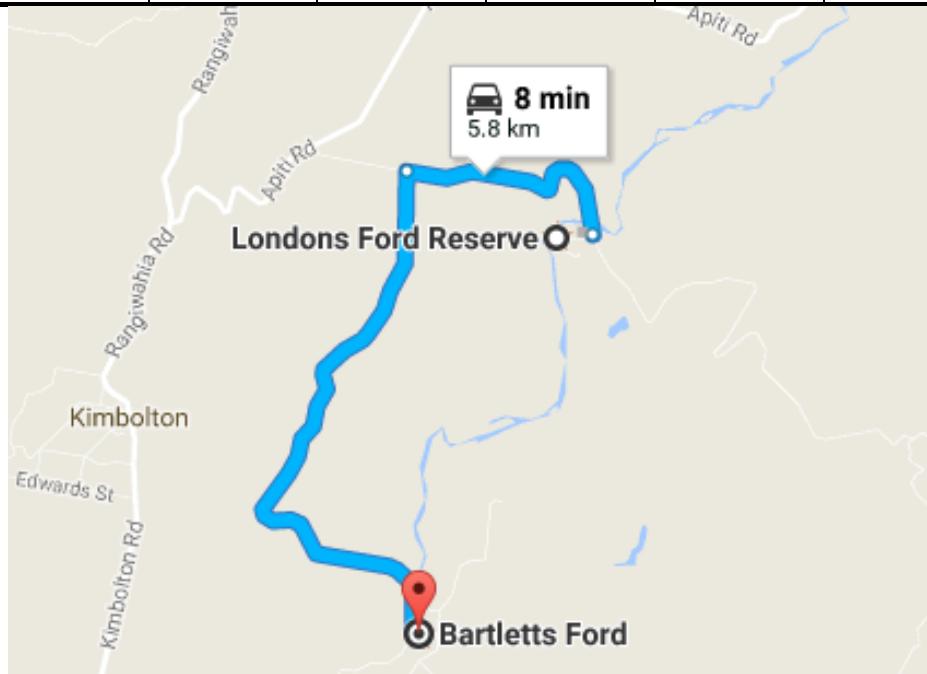
Ōroua at Bartlett's Ford (10 minutes drive from previous site)

POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):

Drowning	UV Radiation	Slippery surfaces	Trip hazards
Difficult entry/exit	Potential for difficult rescue	Remote Area	Traffic / Vehicle Movements
Weather/Temperature Extremes			

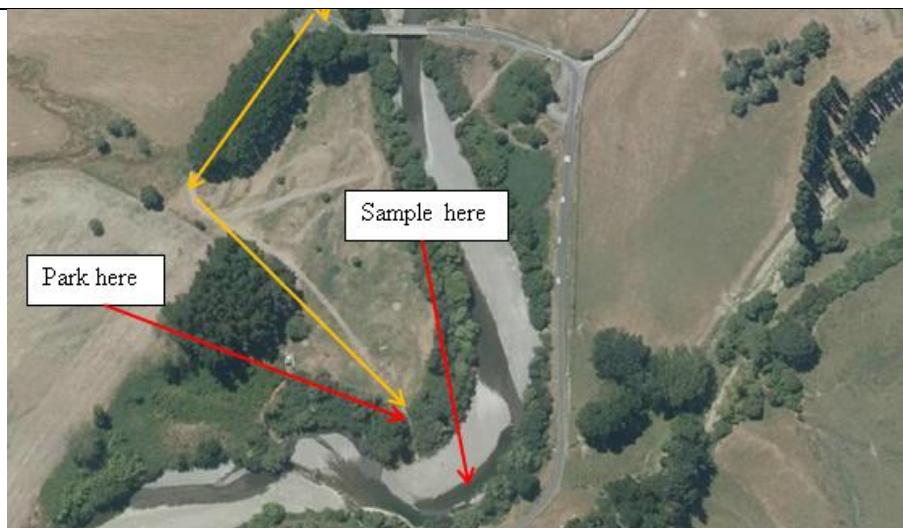
REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary)

WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	HI-VIS	VHF RADIO	SAMPLE POLE	



- Turn left back the way you came, back across the bridge and along Londons Ford Road
- Turn left onto Terrace Road before you reach the junction with Apiti Rd follow this for ~4km
- Before the bridge turn slightly right into the Bartletts Ford camping ground (sign posted).
- Follow path and at the end you can see an access track. Park next to it. The sample point is just in front of the track.

Field Site Location Guide – Contact Recreation Run 3



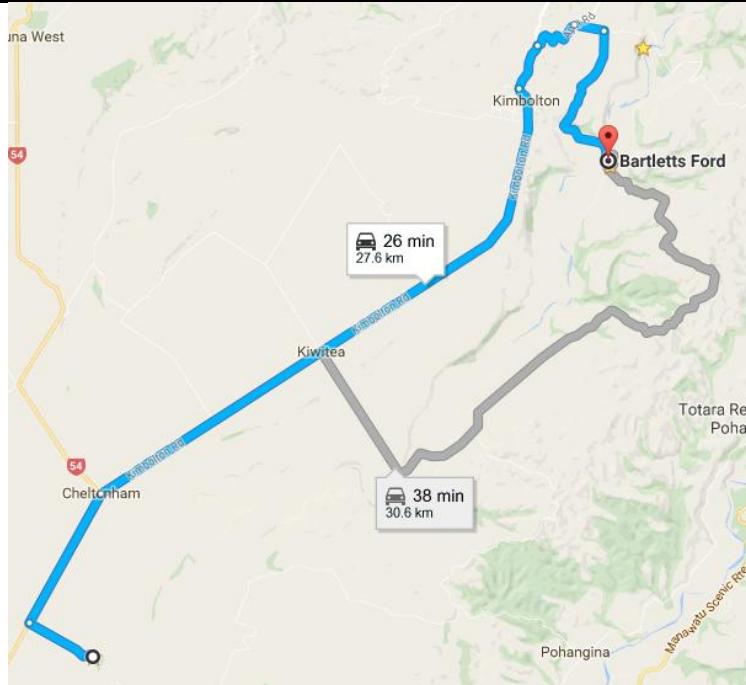
Ōroua at Almadale (30 minutes from previous site)

POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):

Drowning	UV Radiation	Slippery surfaces	Trip hazards
Difficult entry/exit	Potential for difficult rescue	Remote Area	Traffic / Vehicle Movements
Weather/Temperature Extremes			

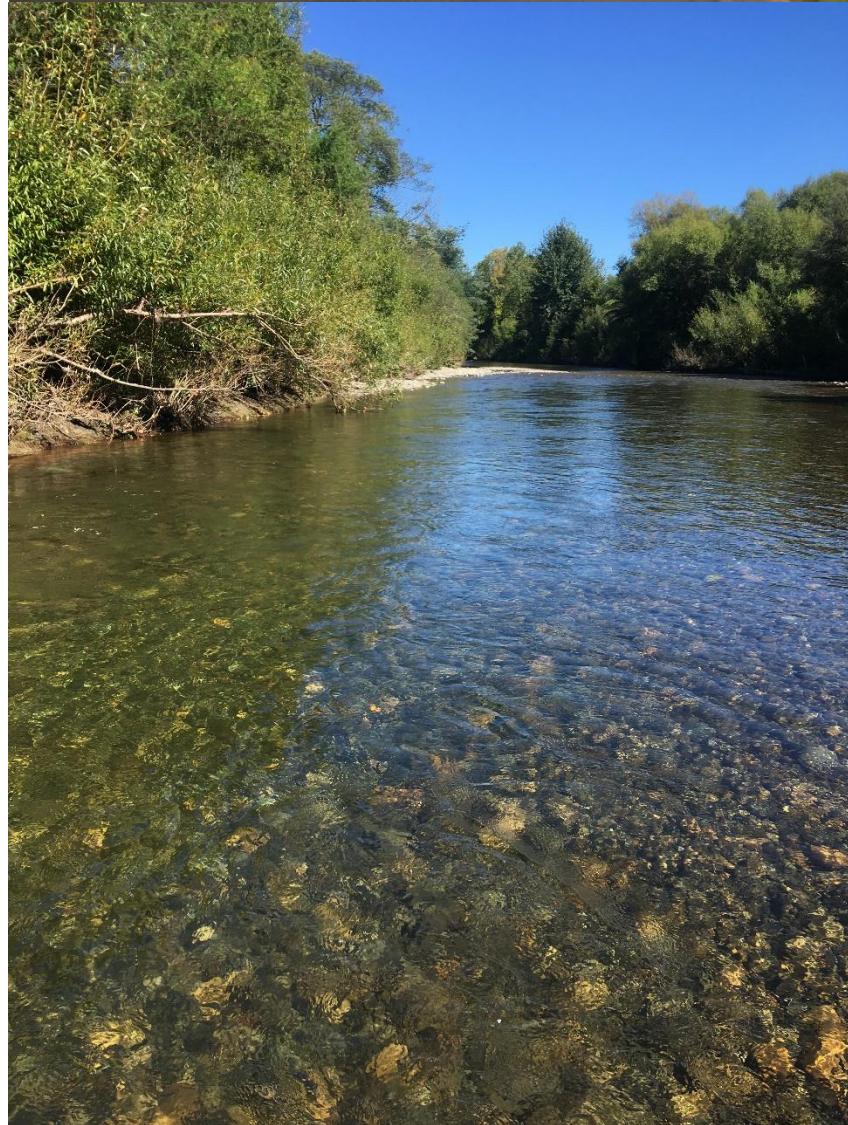
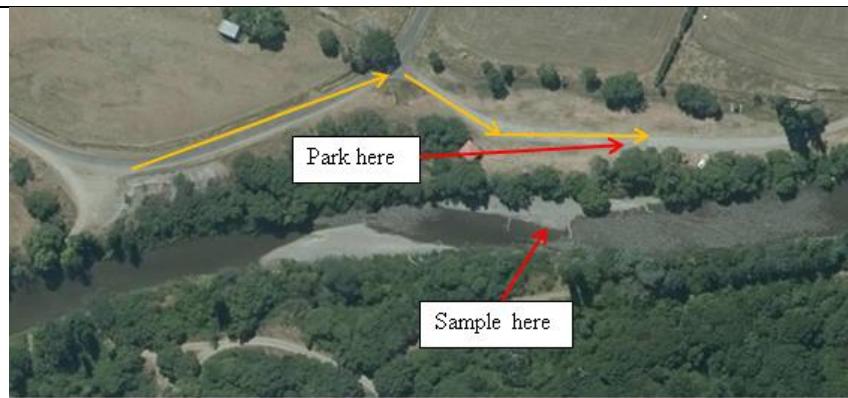
REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	HI-VIS	VHF RADIO	SAMPLE POLE	



- Head back the way you came, along Terrace Road, turning left onto Londons Ford Rd.
- Turn left on to Apiti Road and then left onto Rangiwahia Road/Manawatū scenic route (signs for Feilding).
- Continue along this road for approx. 20 km, through Kimbolton, Kiwitea and Cheltenham.
- Two minutes after leaving Cheltenham, turn left onto Almadale Road.
- Follow this road for 3 minutes around a bend and turn off to the right onto a gravel road. This entrance is unmarked with an open grassy area. The river is to the right and a farm to the left. This is the camping ground site.
- Park and sample at the white dot as in the map below.

Field Site Location Guide – Contact Recreation Run 3



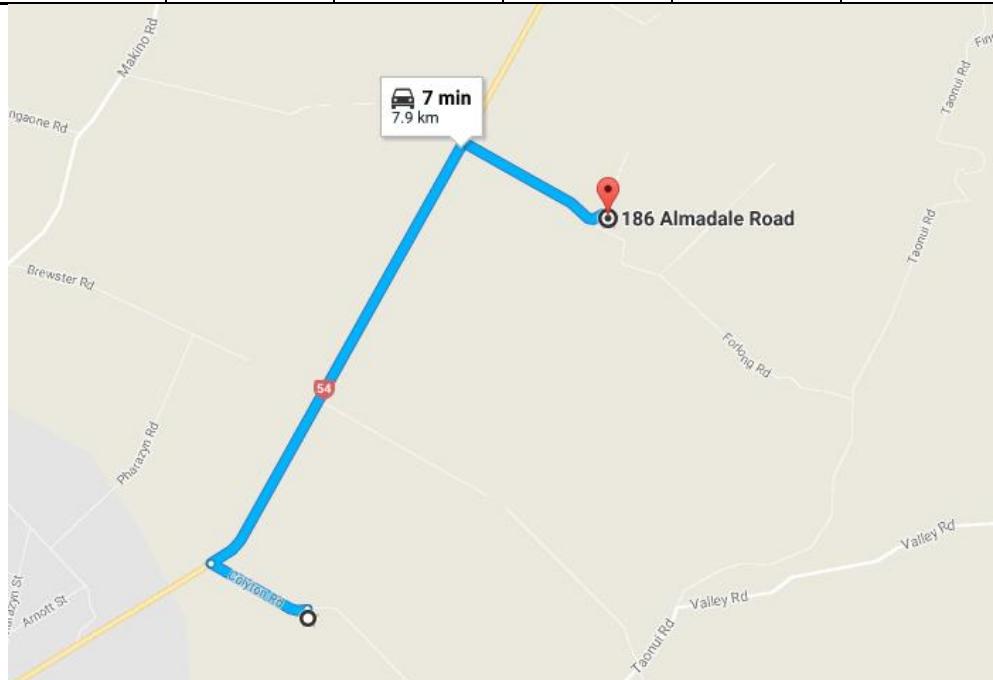
Ōroua at Feilding Road Bridge (10 mins from previous site)

POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):

Drowning	UV Radiation	Slippery surfaces	Trip hazards
Difficult entry/exit	Potential for difficult rescue	Remote Area	Traffic / Vehicle Movements
Weather/Temperature Extremes			

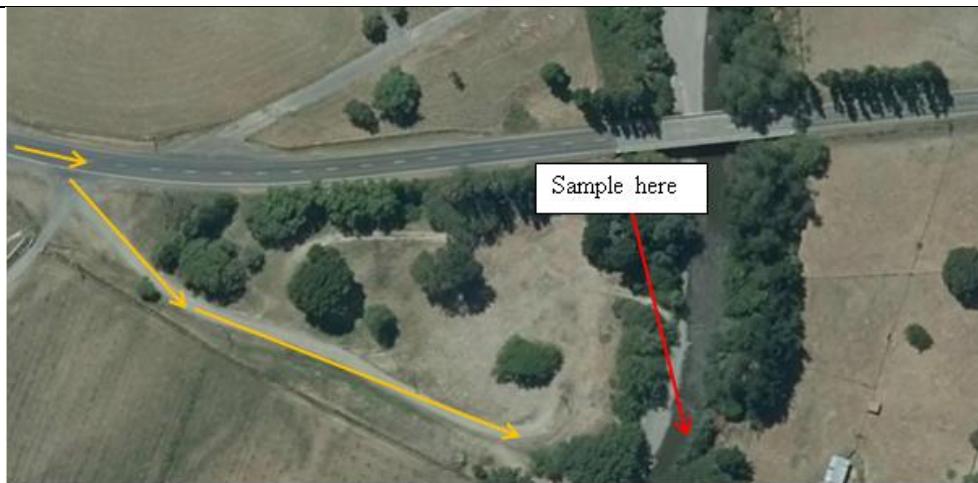
REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	HI-VIS	VHF RADIO	SAMPLE POLE	



- Head back the way you came along Almadale Road. At the intersection turn left onto State Highway 54 (Kimbolton Road).
- Drive along SH 54 for approx. 6 mins and turn left onto Colyton Road (green sign towards Ashurst). Just as the road bends there is a blue picnic sign, turn off here to the right and take the left gravel drive (the right is a private property).
- Park is the designated parking area and walk to the sample point shown below.

Field Site Location Guide – Contact Recreation Run 3



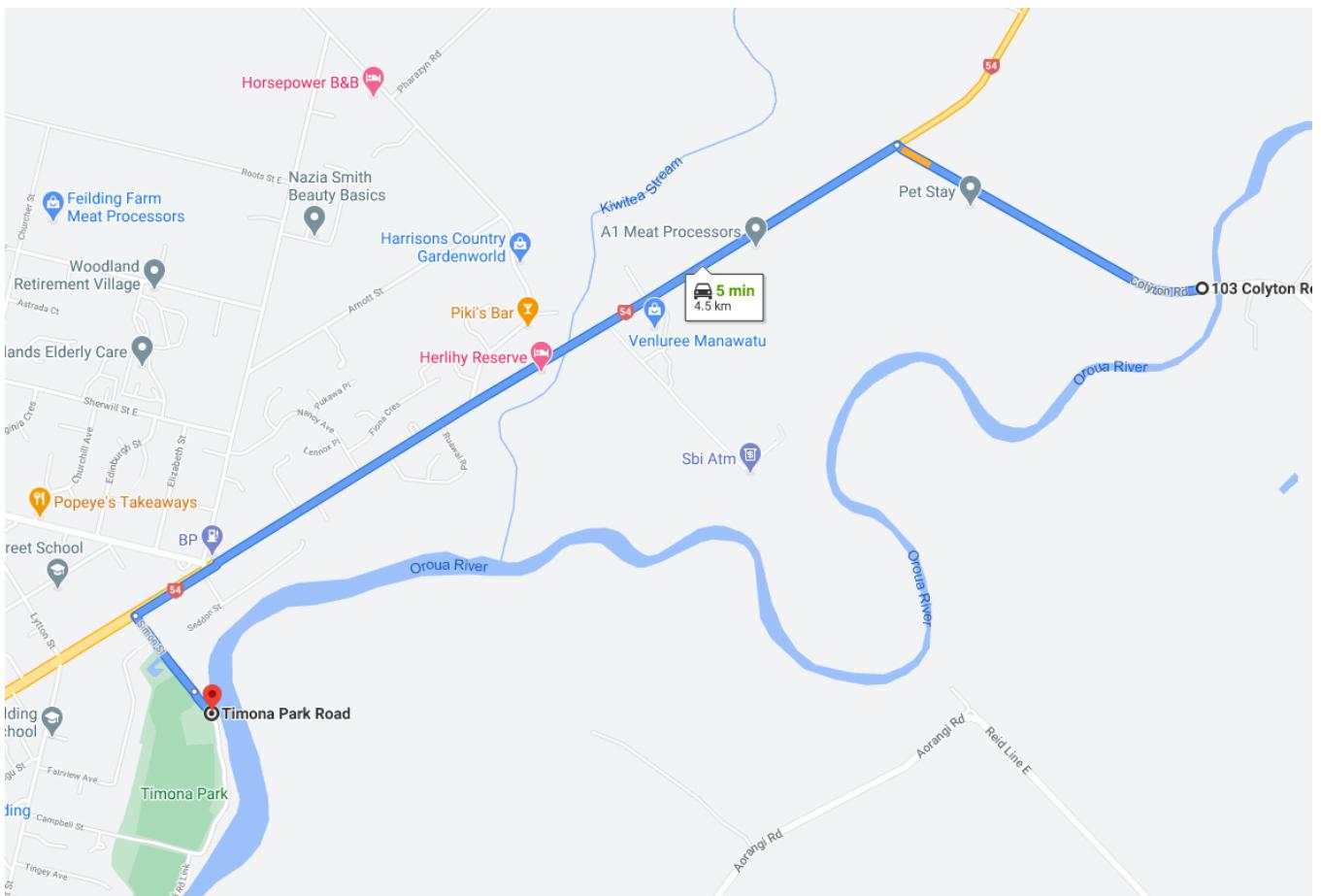
Ōroua at Timona Park (10 mins from previous site)

POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):

Drowning	UV Radiation	Slippery surfaces	Trip hazards
Difficult entry/exit	Potential for difficult rescue	Weather/Temperature Extremes	Traffic / Vehicle Movements

REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	HI-VIS	VHF RADIO	SAMPLE POLE	



- Head back along Colyton Road to the junction with Kimbolton Rd (SH54)
- Turn left onto State Highway 54 and head into Fielding.
- In town turn left Simon St
- Follow the road until you come up to a playground. Park here in the designated parking spots. The access track is behind you (look for the swim safety sign)

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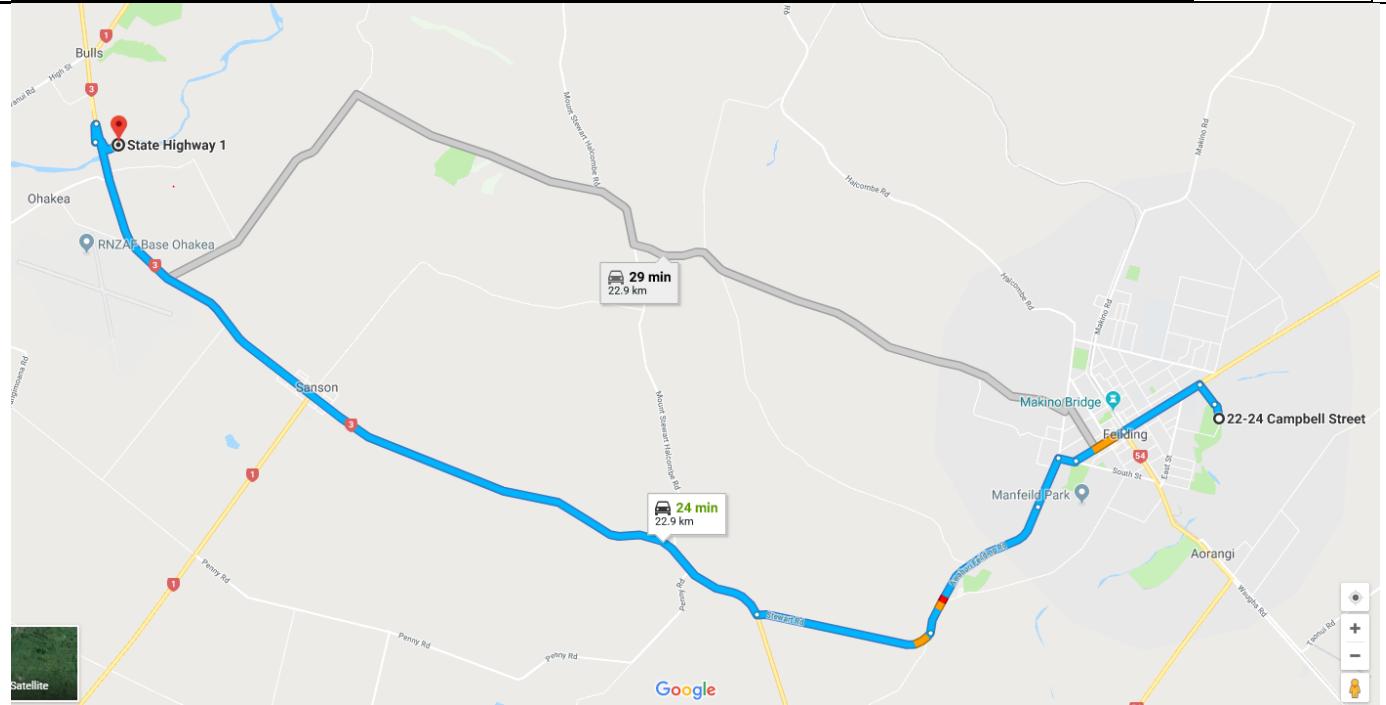
Rangitīkei at Bulls Bridge (25 minutes from previous site)

POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):

Drowning	UV Radiation	Slippery surfaces	Trip hazards
Difficult entry/exit	Potential for difficult rescue	Weather/Temperature Extremes	Traffic / Vehicle Movements

REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	HI-VIS	VHF RADIO	SAMPLE POLE	



- From Timona Park head back towards Kimbolton Rd (SH54) – turn right towards Feilding centre.
- Continue through Feilding centre until the last roundabout turn right onto South Street and follow the road onto Awahuri Road.
- After leaving Feilding take a right onto Stewart Rd (signs for Whanganui) then right again at the end of the road onto SH3 towards Bulls.
- As you are approaching Bulls, pull over to the left just after you come over the bridge
- Follow the gravel road that travels down to and under the bridge. Park on the left in the gravel parking area.
- Walk upstream from the parking area down towards the gravel beach. Sample here upstream of the bridge as seen below

Field Site Location Guide – Contact Recreation Run 3



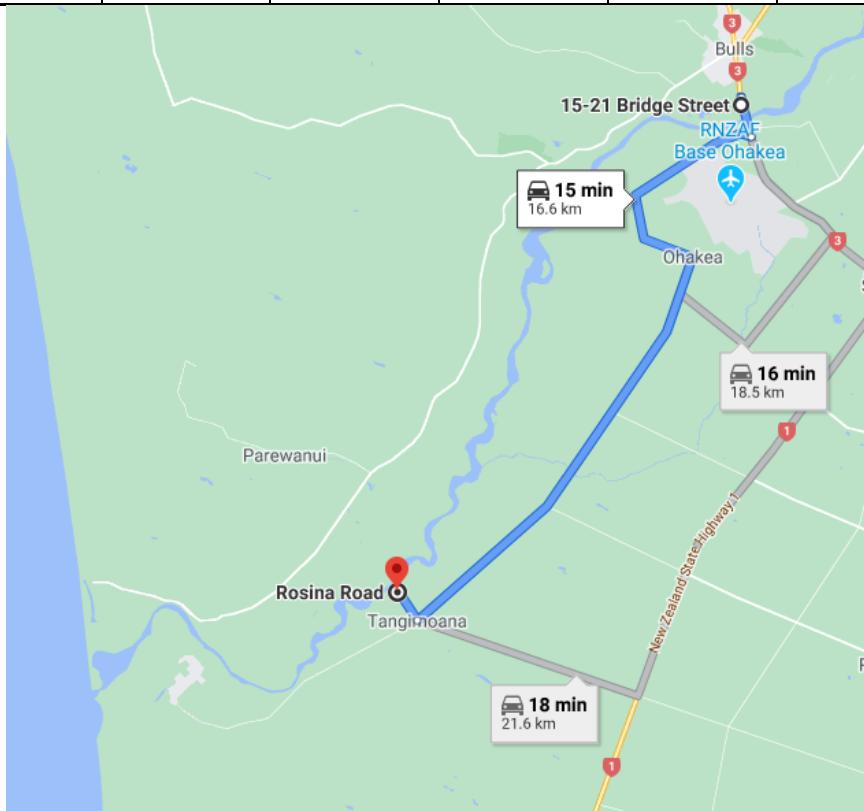
Rangitīkei at McKelvie's (15 minutes from previous site)

POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):

Drowning	UV Radiation	Slippery surfaces	Trip hazards
Difficult entry/exit	Potential for difficult rescue	Remote Area	Traffic / Vehicle Movements
Weather/Temperature Extremes			

REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	HI-VIS	VHF RADIO	SAMPLE POLE	



- Head back the way you came and take care turning right on SH3 towards Palmerston North back across the Bulls Bridge
- Take a right onto Tangimoana Rd shortly after crossing the bridge
- Follow Tangimoana Road around the Ohakea Air Base. There will be a few roads you cross.
- Before the turn off for Rosina Road you will pass through the intersection with Campion Road. The next intersection you get to is with Rosina Road. Turn right here and follow Rosina Road.
- Rosina Road will turn into a gravelled road. Continue down the road as it veers to the left and drops down. The path will fork shortly after, take the right hand track. The road here becomes bumpy and only suitable for 4WD – Walk from here! Follow the track as it

Field Site Location Guide – Contact Recreation Run 3

curves around to the left and then to the right, it will probably take about 5 minutes walking. Sample when you are able to access the river safely. See photo below for help.



Field Site Location Guide – Contact Recreation Run 3



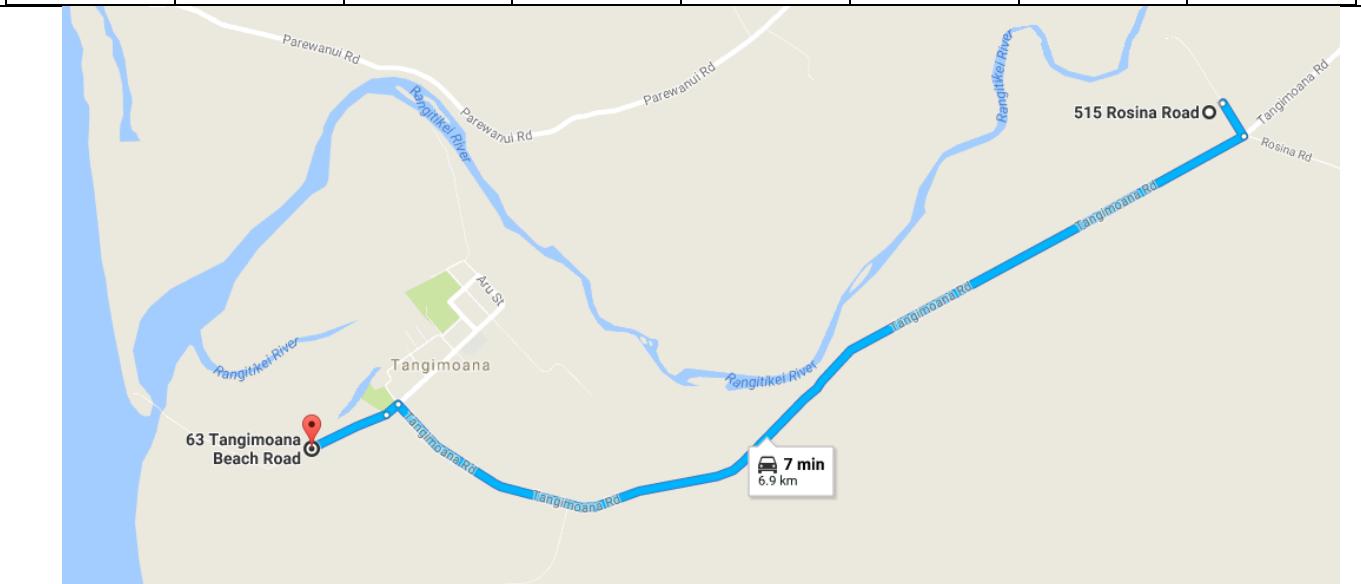
Rangitīkei at Estuary (10 minutes from previous site)

POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):

Drowning	UV Radiation	Slippery surfaces	Trip hazards
Difficult entry/exit	Potential for difficult rescue	Remote Area	Traffic / Vehicle Movements
Weather/Temperature Extremes			

REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	HI-VIS	VHF RADIO	SAMPLE POLE	



- Go back out to Tangimoana Road and turn right and head towards the coast, drive for 6.1km until you come the township of Tangimoana.
- You will come to an intersection. Turn left onto Tangimoana Beach Road.
- Just before you reach the recycling station there is a track coming up on your right leading to a boat ramp (there is a sign with information on what radio channel to use etc.)
- Follow the track that leads alongside the estuary until you come to a car park with a boat ramp. Sample at the boat ramp.

Field Site Location Guide – Contact Recreation Run 3



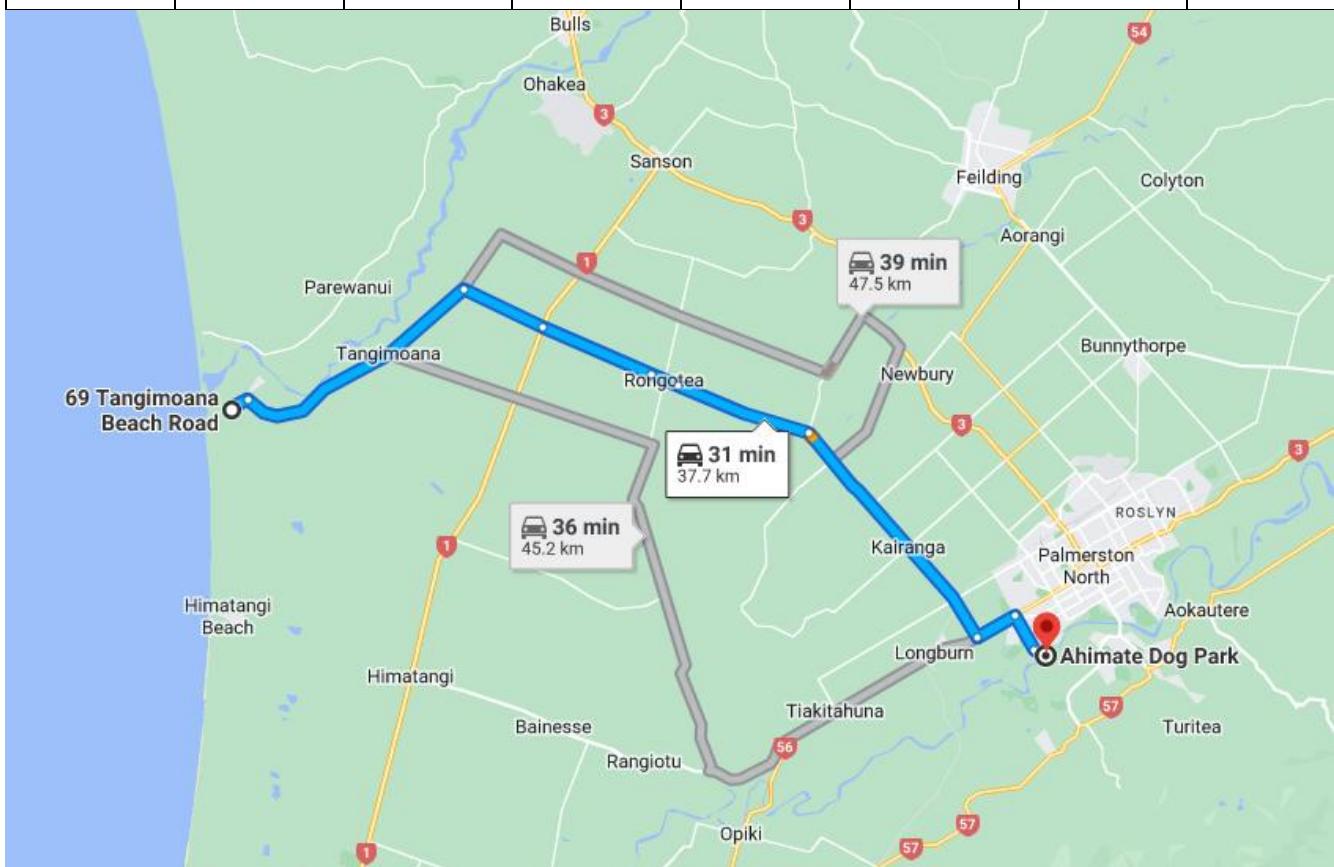
Manawatu at u/s PNCC STP (Waitoetoe Park) (31 minutes from previous site)

POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):

Drowning	UV Radiation	Slippery surfaces	Trip hazards
Difficult entry/exit	Potential for difficult rescue	Remote Area	Traffic / Vehicle Movements
Weather/Temperature Extremes			

REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	HI-VIS	VHF RADIO	SAMPLE POLE	



- Follow Tangimoana Beach Rd back to Tangimoana, turn right in the village, staying on Tangimoana Rd.
- Follow Tangimoana Rd. for 10km until it intersects with Campion Rd. Turn right down Campion Rd.
- Continue straight for 25km, go through Rongotea and Kairanga until you meet SH56, then turn left on to SH56.
- Travel along SH56 into Palmerston North and take a right down Maxwells Line
- Follow it until the end, where you will see the entrance to the park (there is a toilet on the corner)
- Turn down here and follow that until you get to the car park near the dog play area. Park up and walk down the main track to the river
- Sample from the 'beach' opposite the cliffs

Field Site Location Guide – Contact Recreation Run 3



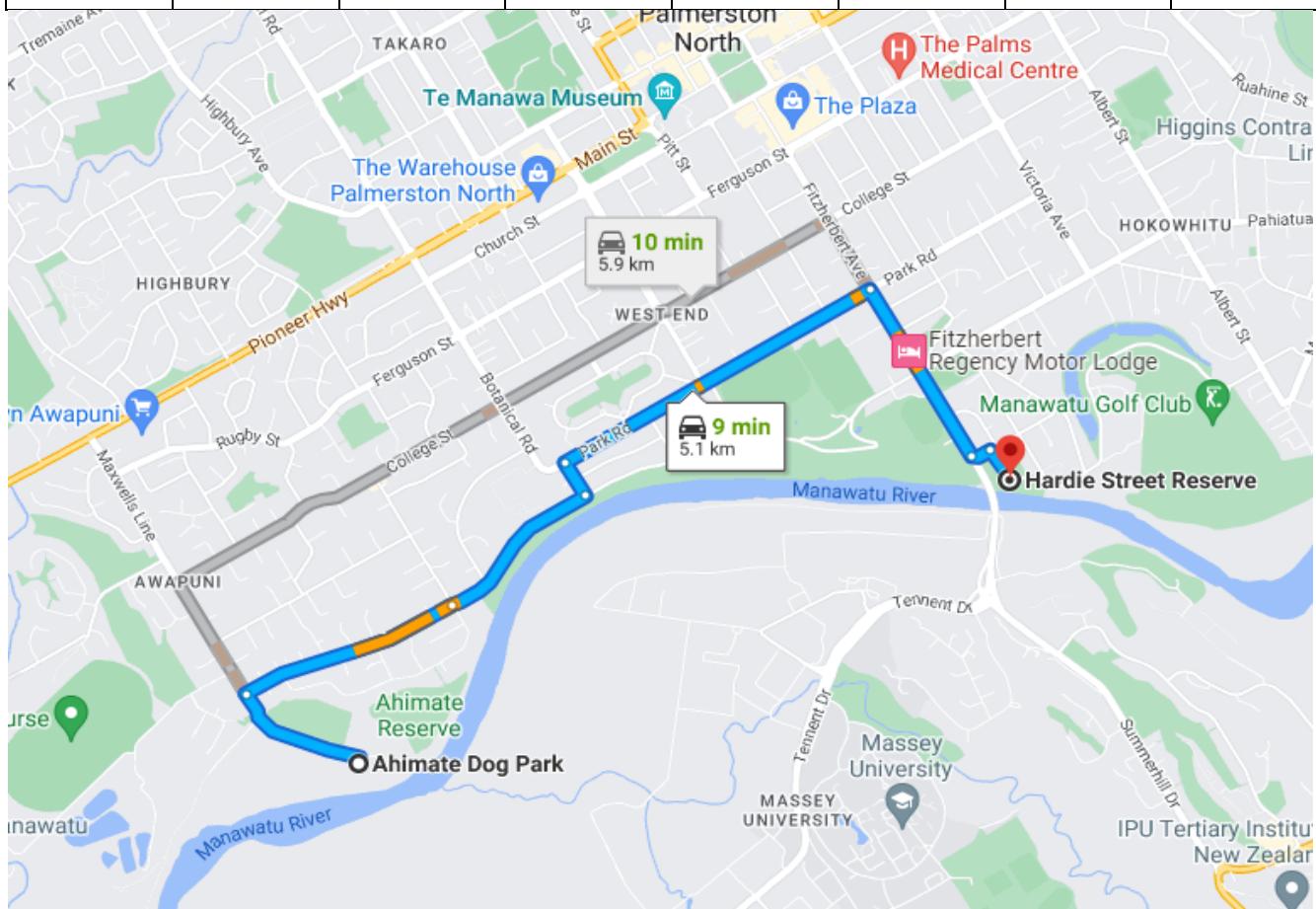
Manawatu at Fitzherbert (9 minutes from previous site)

POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):

Drowning	UV Radiation	Slippery surfaces	Trip hazards
Difficult entry/exit	Potential for difficult rescue	Remote Area	Traffic / Vehicle Movements
Weather/Temperature Extremes			

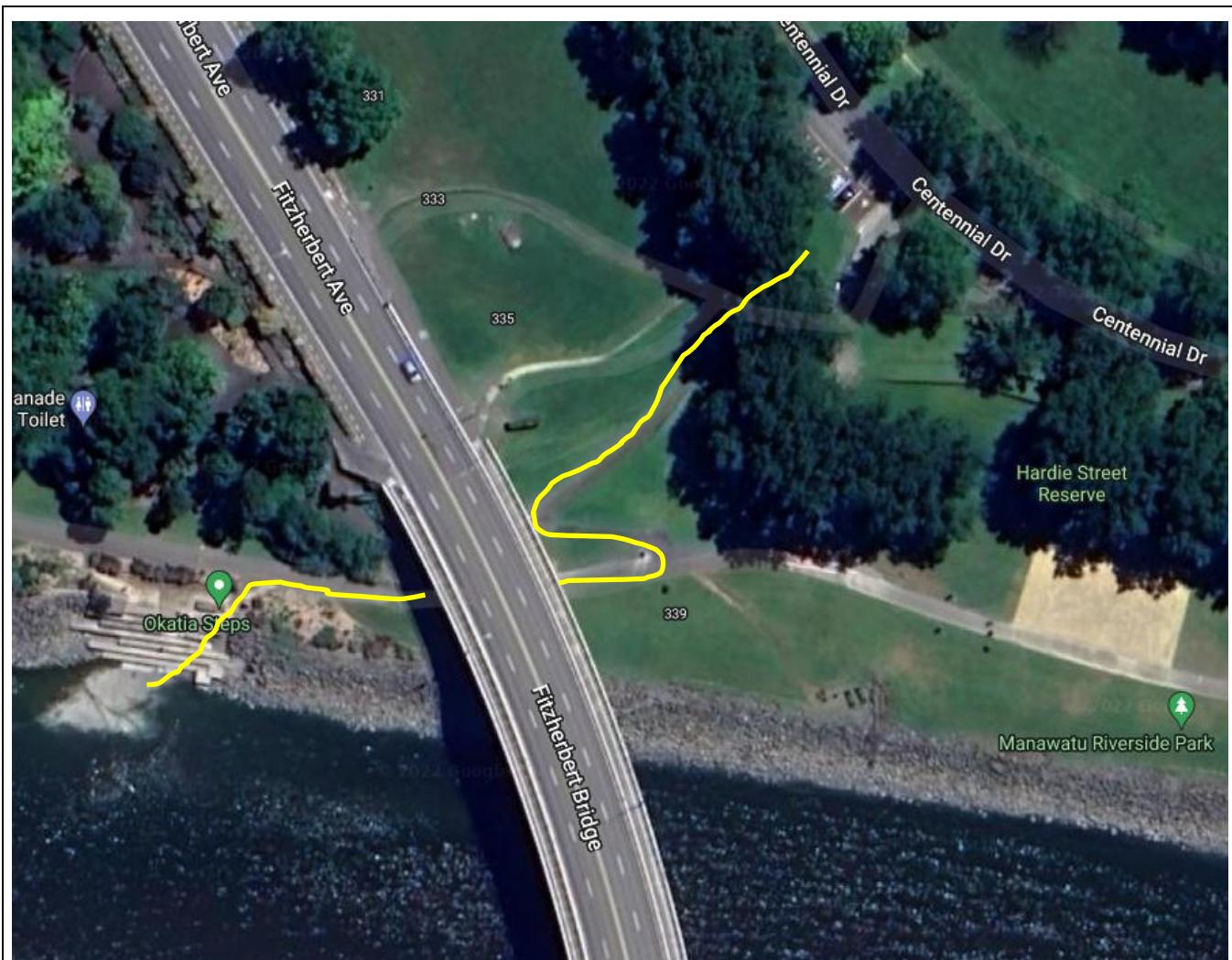
REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	HI-VIS	VHF RADIO	SAMPLE POLE	

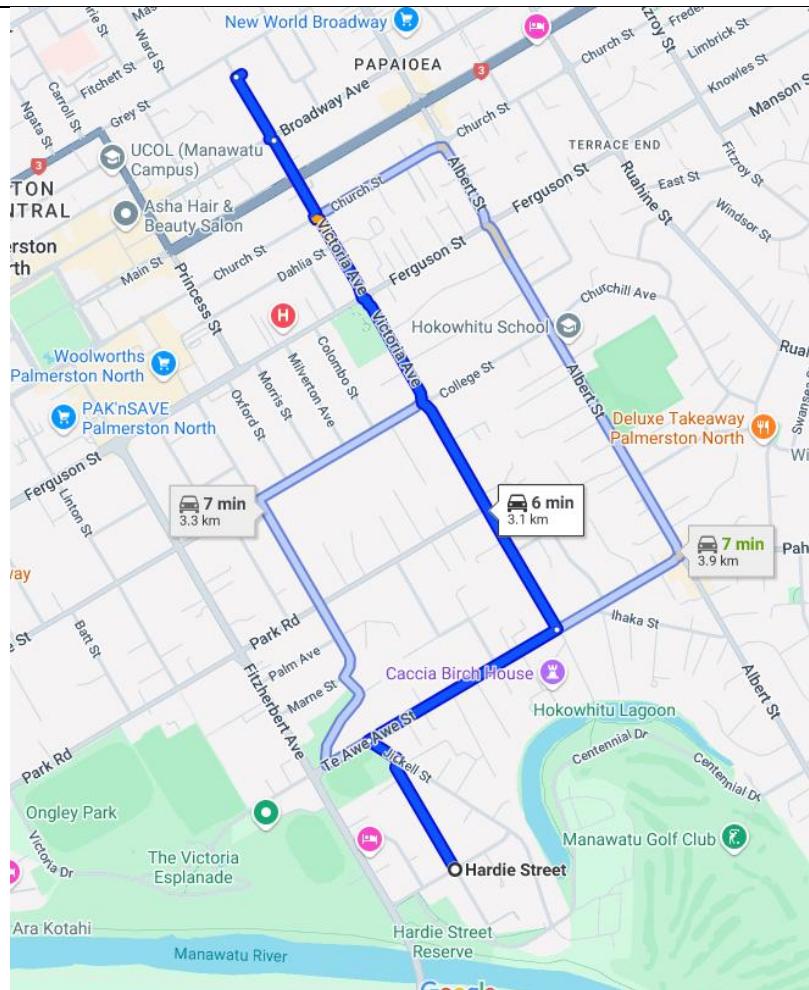


- Return the way you came on Maxwells Line and take the first right onto Slacks Road
- Continue into Dittmer Dr & take a left onto Katene Street and right onto Park Rd.
- At the lights take a right onto Fitzherbert. Just before the bridge turn left onto Hardie Street.
- Then take the first right onto Centennial Drive and park on the corner in the designated spots
- Walk under the bridge (the lower path closest to the river, not the higher one for cyclists).
- Walk down the large steps and sample here.

Field Site Location Guide – Contact Recreation Run 3



Finishing up (6 minutes to HRC)



Going to HRC

1. Travel back the way you came out of Centennial Dr back towards Hardie St and turn right.
2. Turn left onto Collingwood Street and left again onto Jickell Street.
3. Turn right onto Te Awe Awe Street following it down for 650m.
4. Turn left onto Victoria Avenue following it down, going through three roundabout.
5. Before the T-intersection onto Grey Street, turn right into HRC.

