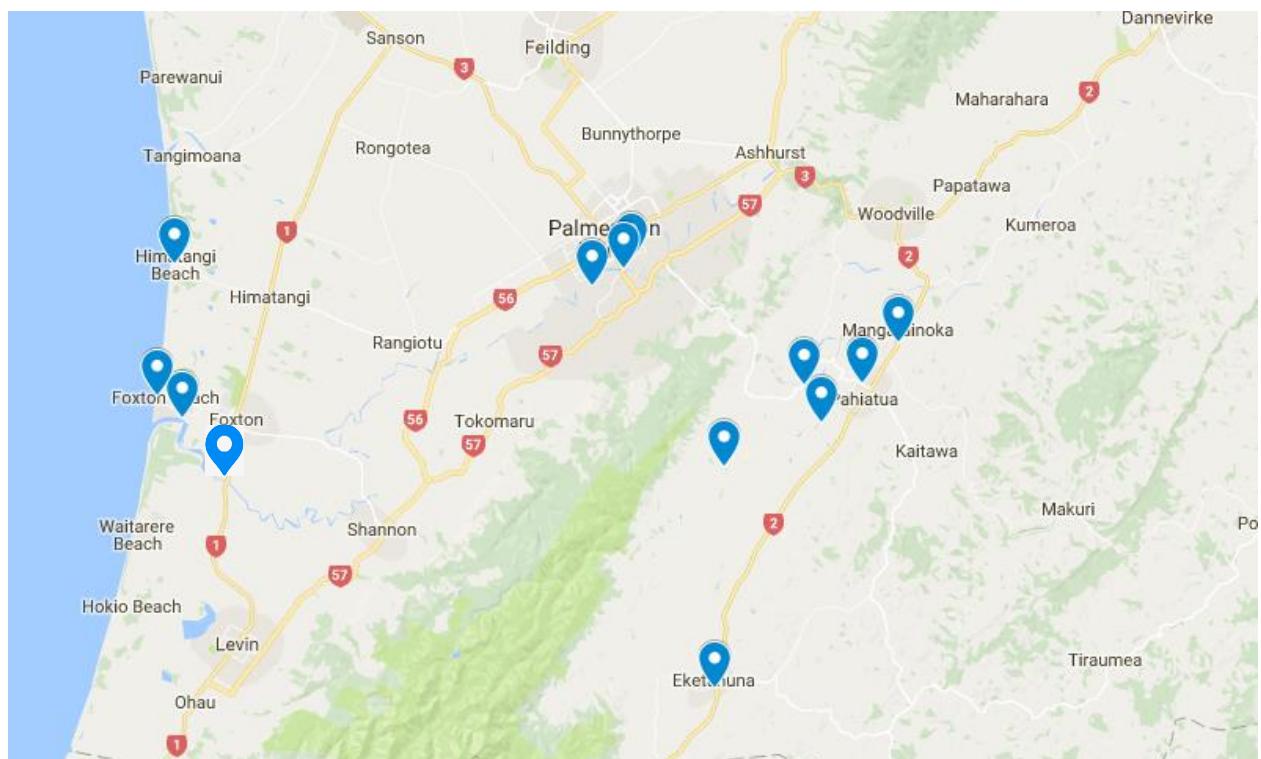


Version No:	6	Section No:
Issue Date:	11/09/2020	Appendix No:
Portfolio:	Discrete Water Quality	Page: 0 of 31
<b>horizons</b> regional council	Hydrology Operations Manual	

# Contact Recreation Guide

## Run 2



## Site Names and Coordinates

	Site Name	Easting (NZTM)	Northing (NZTM)
1	Mangatainoka at Pahiatua Town Bridge	1840248	5518605
2	Mangatainoka at SH2	1842886	5521532
3	Makakahi at Motorcamp	1828691	5496160
4	Mangahao at Marima Domain	1829749	2739763
5	Mangatainoka at Scarborough Konini Rd	1837017	5515617
6	Mangahao at Poplar Reserve	1835646	5518221
7	Tasman Sea at Himatangi Beach	1789081	5528791
8	Kaikokopu Stream at Himitangi	1789237	5528937
9	Tasman Sea at Foxton Beach	1787832	5518971
10	Manawatu at Foxton	1789631	5517402
11	Foxton Loop at Harbour Street Boat Ramp	5516860	1793298
12	Manawatu at Whirokino	5513130	1797958
13	Hokowhitu Lagoon at the Walkbridge	1823331	5528213

Version 6	Created: 03/10/23	Updated by: Izzie Hodgson
-----------	-------------------	---------------------------

# Job Hazard & Task Analysis

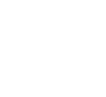
Hazard Identification – tick all that apply, write additional hazards identified:

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 checked="" 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 FLOATATION 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"/>	

Field Site Location Guide - Contact Recreation Run 2

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"/>	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 advise 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].
Stock/Farm	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Although generally docile, farm animals can still

Field Site Location Guide - Contact Recreation Run 2

Known Hazard	Significant		Can it be Eliminated		Can it be Isolated		Method of control
	Yes	No	Yes	No	Yes	No	
Animals							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 travers 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	X1				x14 (one for temperature reference)   
Hilltop Sampler Numbers	13 sample numbers				
Meters/Equipment	<ul style="list-style-type: none"> <li>• Chilly Bin, Slicker pads</li> <li>• Camera</li> <li>• GPS</li> <li>• Field Sampling Sheets</li> <li>• Bottle ID stickers</li> <li>• Vivid and pens</li> <li>• Thermometer</li> </ul>				

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.

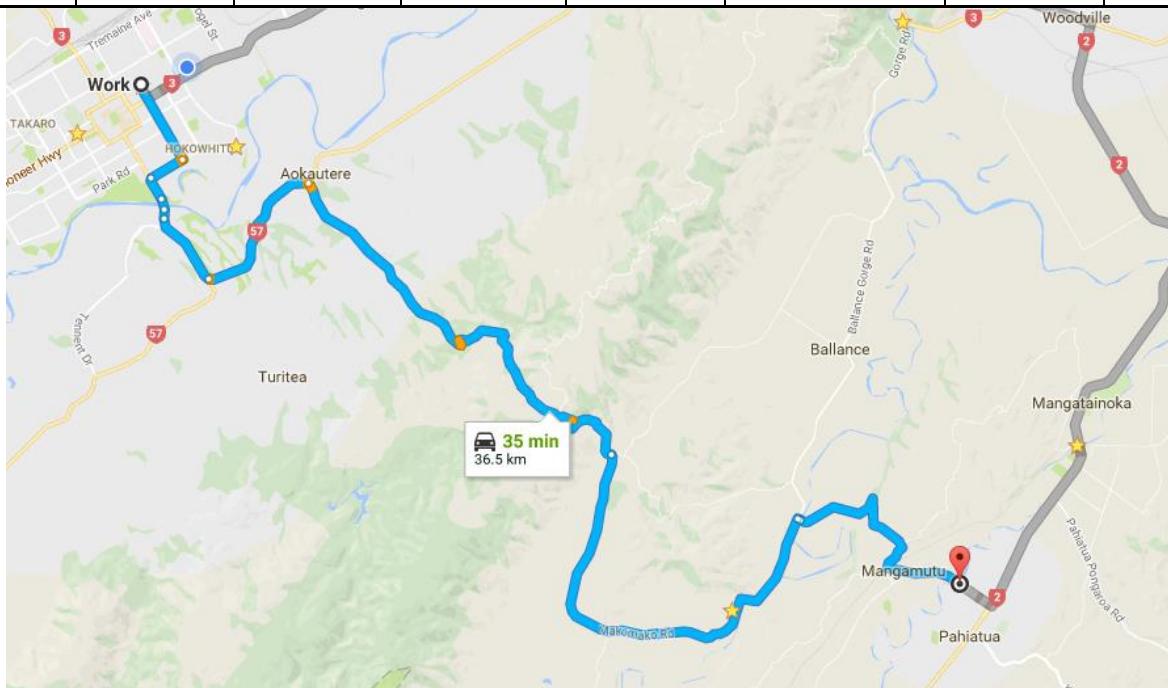
## Mangatainoka at Pahiatua Town Bridge (35 mins from office)

**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

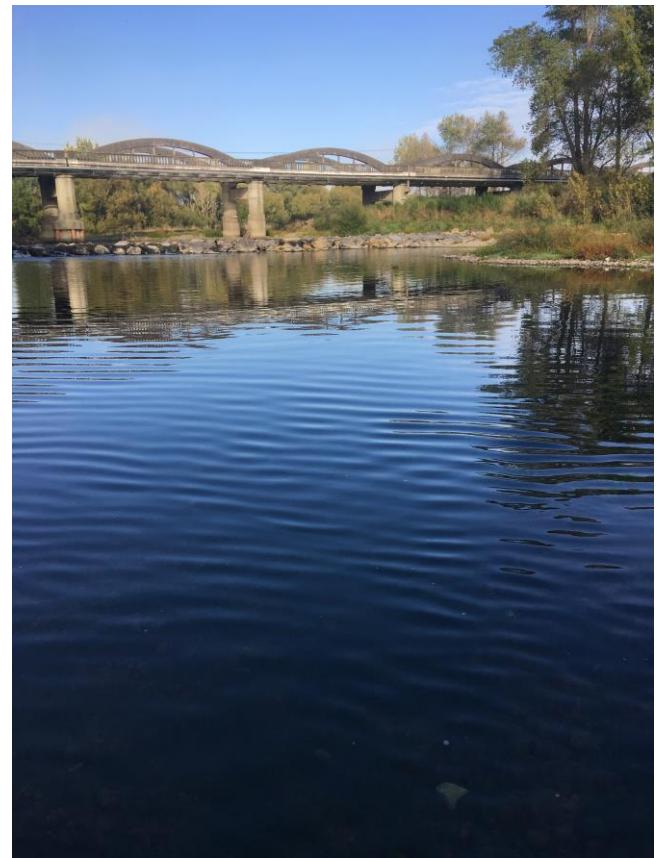
**REQUIRED PPE** (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

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



- From the Horizons building turn left down Victoria Ave, turn right on to Park Road and left at the lights onto Fitzherbert Ave.
- Continue over the Fitzherbert Bridge turn left up Summerhill Drive.
- Turn right onto Pahiatua Aokautere Rd (sign Pahiatua) over the Pahiatua track and travel towards Pahiatua.
- Turn right over the bridge following the main road on Pahiatua Mangahao Rd
- Just after crossing the bridge leading into Pahiatua, take a sharp left on to Ford St
- Follow the track towards the river and park somewhere on the grass near the river.
- There is an obvious path down to the river. Walk down here and sample as indicated by the yellow dot below.

Field Site Location Guide - Contact Recreation Run 2



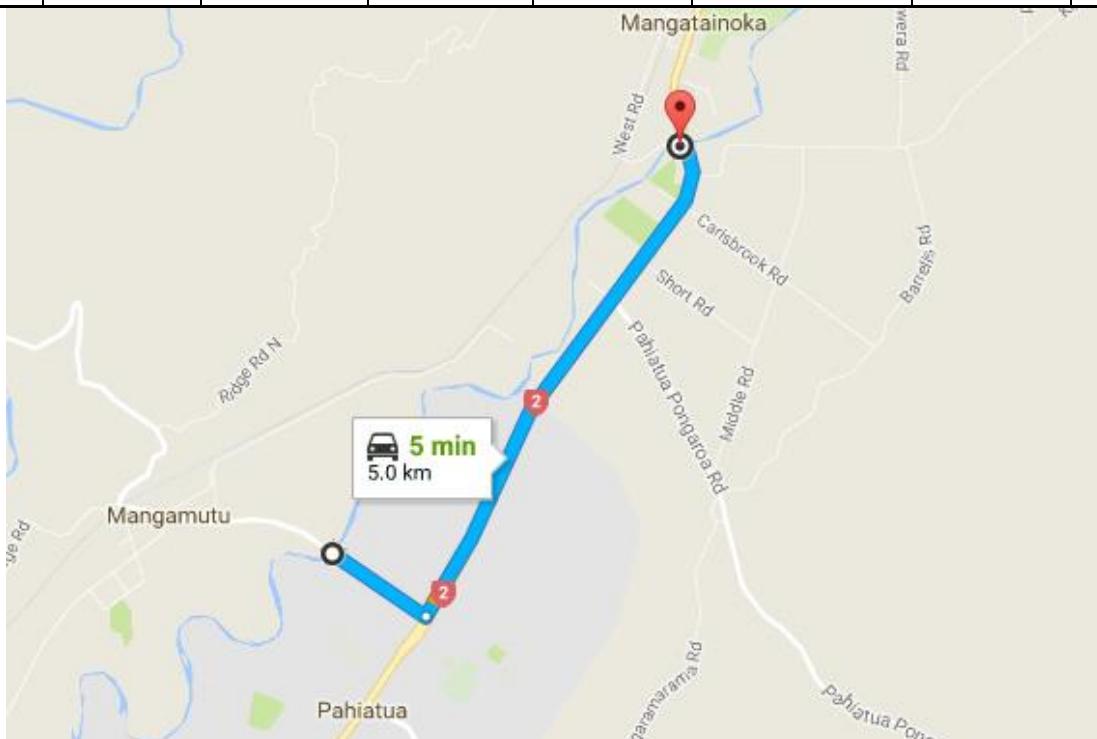
## Mangatainoka at SH2 (5 mins from previous site)

**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

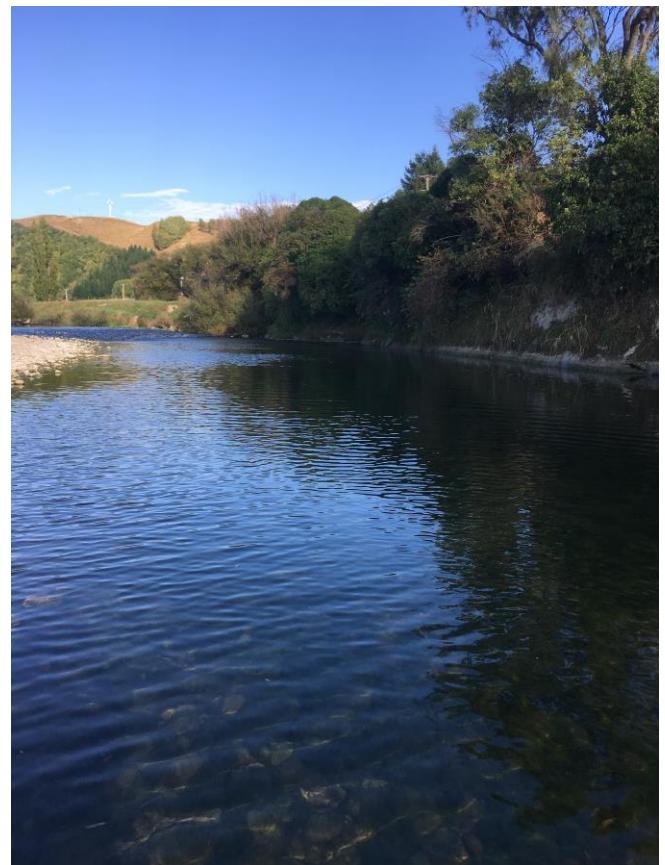
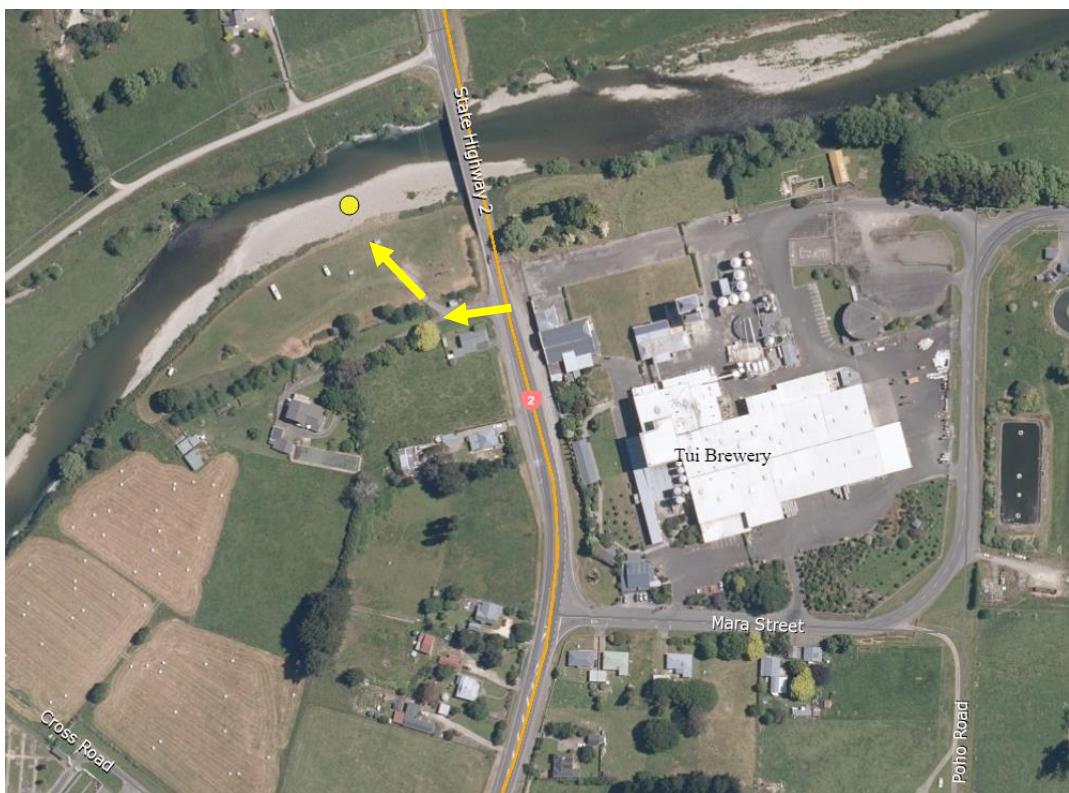
**REQUIRED PPE** (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

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



- Return along Ford St to join with Mangahao Rd and head towards Pahiatua town centre.
- Turn left on Main St and continue on this road towards Mangatainoka
- After the Tui Brewery, and just before the bridge, pull over to the left and into a driveway
- Continue through a gate into a paddock next to the Mangatainoka River. This is also a popular picnic site and there is a Fish and Game sign allowing access to anglers here.
- Sample approx. 50m upstream of the bridge. Leave the gate as you find it.

Field Site Location Guide - Contact Recreation Run 2



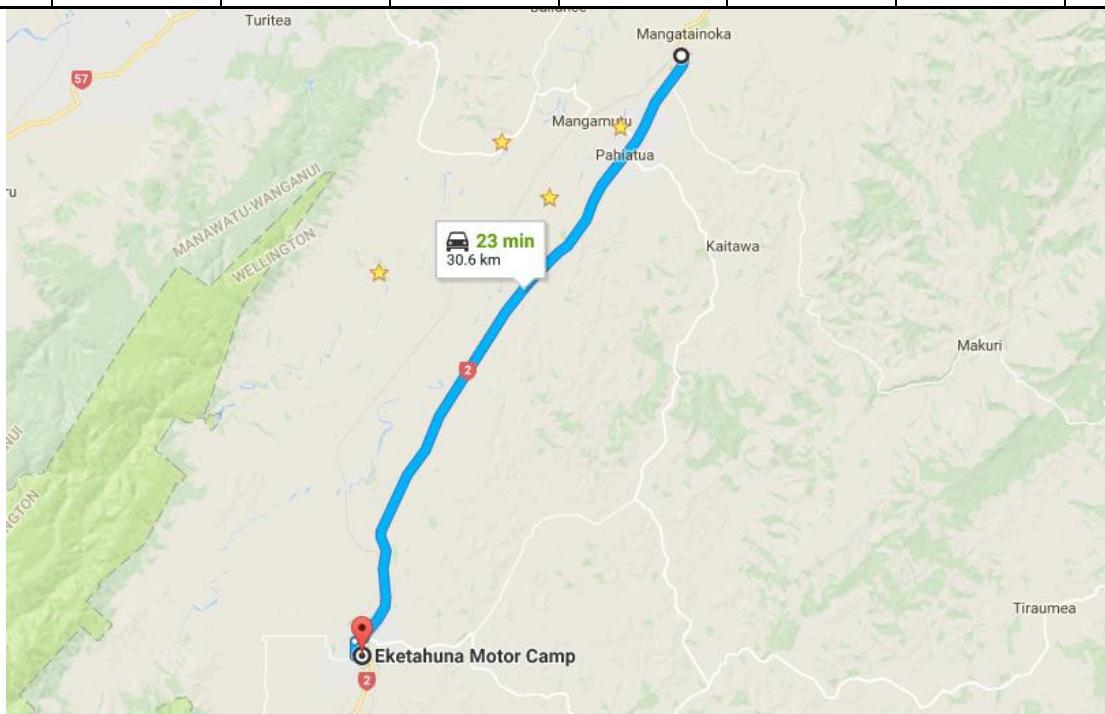
## Makakahi at Motor Camp (25 min from previous site)

**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			

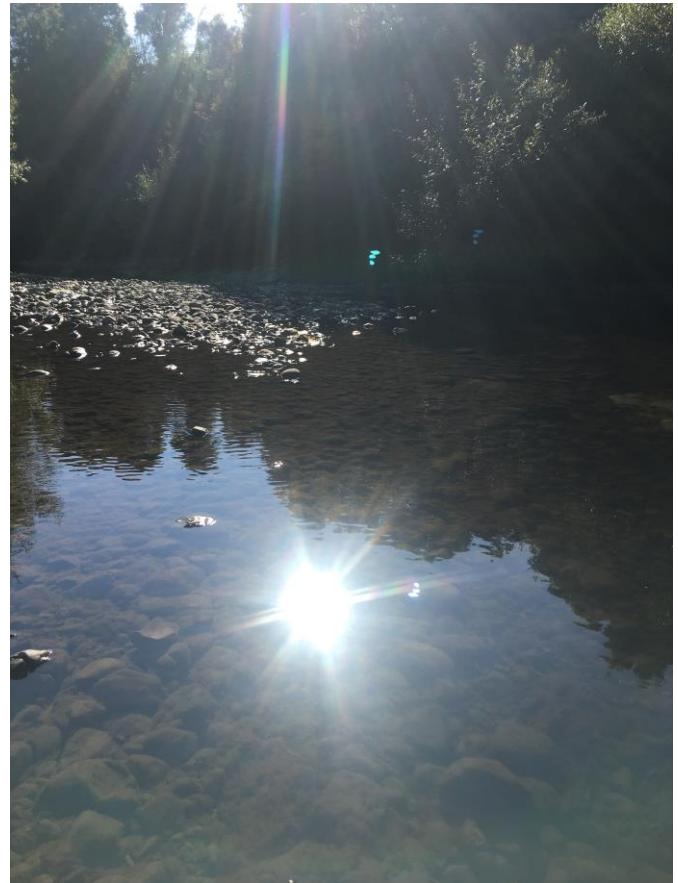
**REQUIRED PPE** (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

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



- Return back to SH2 and take care turning right back towards Pahiatua.
- Travel on SH2 through Pahiatua to Eketahuna.
- Once in Eketahuna turn right onto Bridge Street then take the left onto Stanly Street
- After 200m take the first left onto Stout Street and follow to the end of the road.
- Drive down the slope and you can see the campground to your left. There is a path on your right leading to the river. Take this path. Park at the end of the path on a grass patch.

## Field Site Location Guide - Contact Recreation Run 2



## Mangahao at Marima Domain (20 mins from previous site)

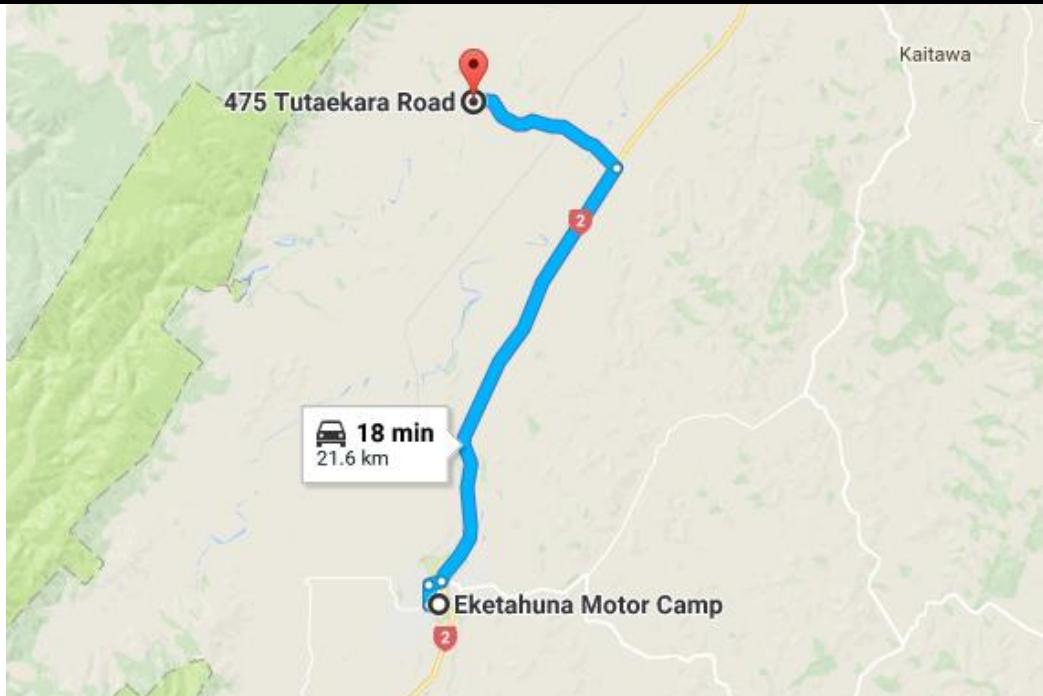
This site requires a cliff hazard photo to be taken. Use photos on other side as a guide

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

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

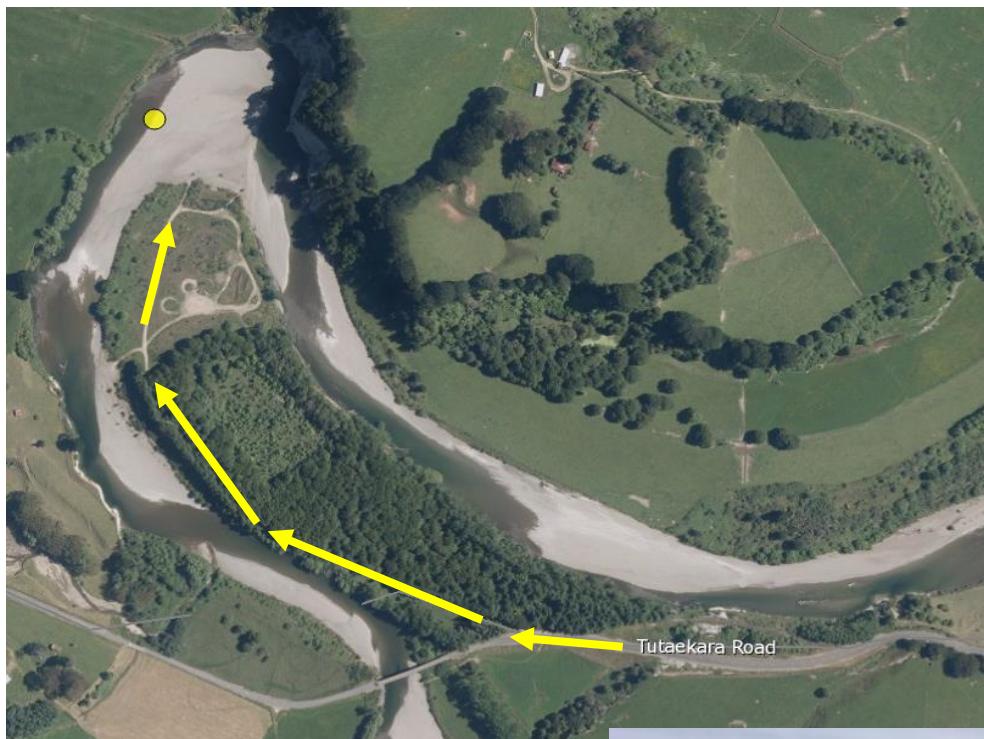
**REQUIRED PPE** (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

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



- Head back to State Highway 2 and turn left, drive north for 14.8km
- Take a left onto Tutaekara Road. There is a sign to Mangamaire.
- Continue on for about 5.2km (stop to cross railway) until you come to a bridge.
- You will head through Mangamaire and over a railway crossing. Continue until you come to a bridge.
- Take a right turn just before the bridge down a gravel driveway. Follow this to the end and sample at the beach as below
- Note you come to an area on the road just before the end where a few different tracks come off. You could possibly stop here and walk if turning around will be an issue, otherwise you can drive onto the river bed and park there. The river bed has large substrate so car clearance may be an issue.

Field Site Location Guide - Contact Recreation Run 2



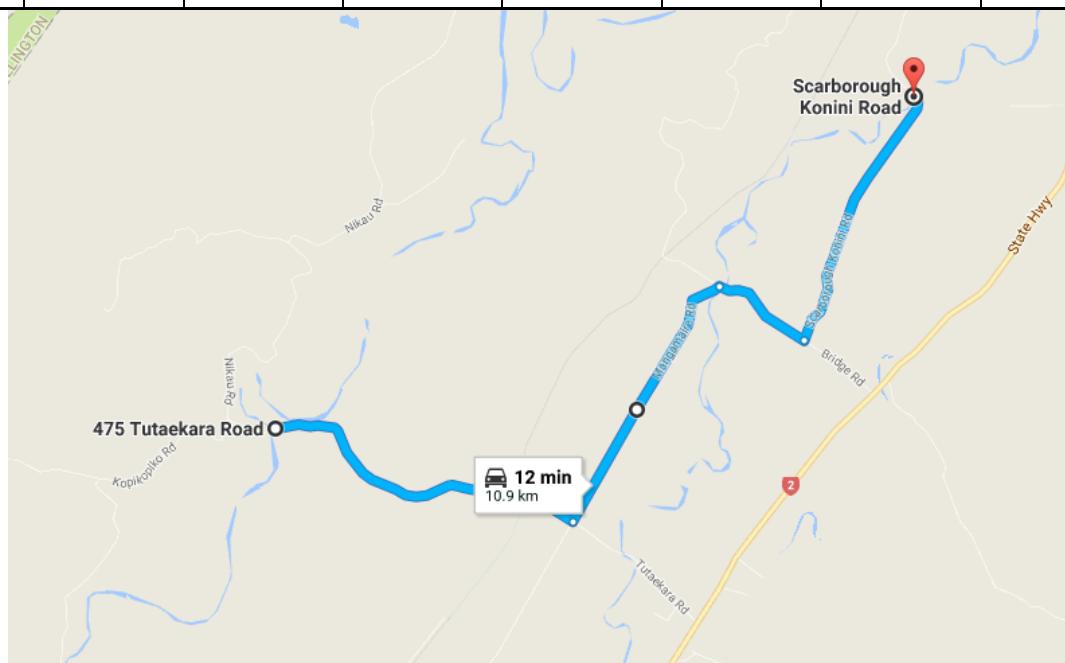
## Mangatainoka at Scarborough Konini Road (15 mins from previous site)

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

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

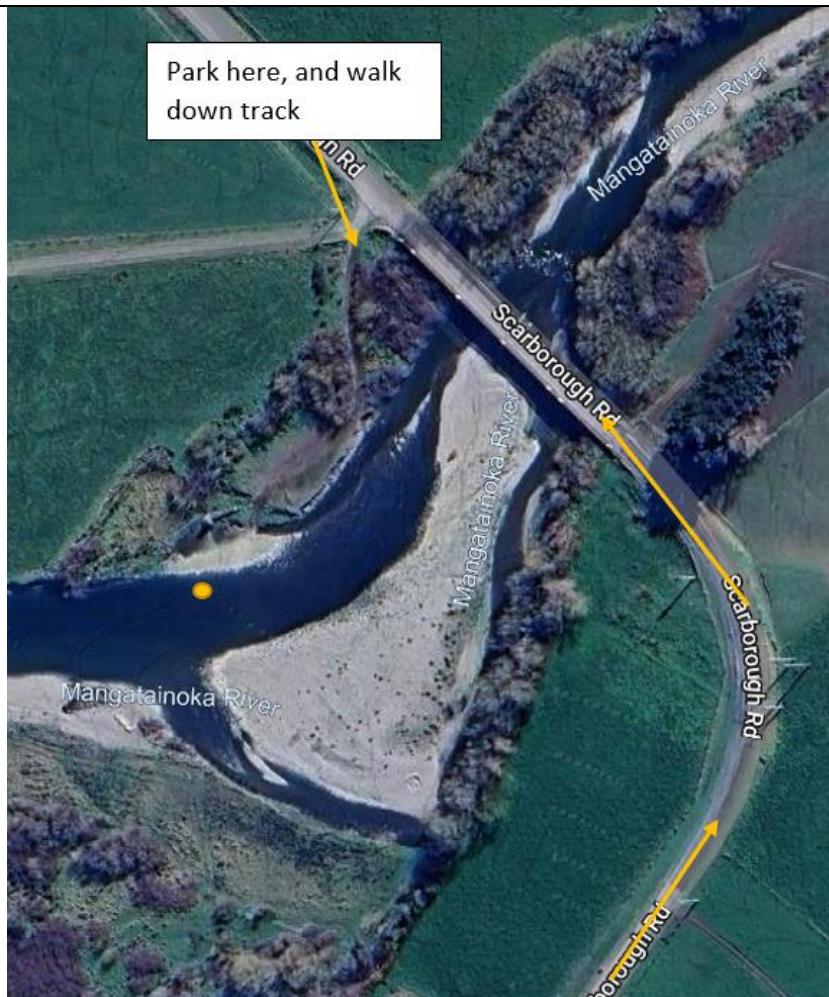
**REQUIRED PPE** (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

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



- Drive back to Tuteakera Rd and turn left (take care exiting, check bridge before pulling out)
- After the train tracks turn left onto Mangamaire Rd, just past Mangamaire Country School
- Continue on Mangamaire Rd until a T intersection - Turn right on to Bridge Rd and the next left onto Scarborough Konini Rd
- Travel on Scarborough konini Road until you arrive at a bridge.
- Immediately after crossing the bridge turn left into the gravel path leading towards the river. Go left through the gate (there should be a Hunting and Fishing sign and evidence of gravel extraction). River has eroded the drive down, park at entry and walk down.  
**NOTE if gravel works is occurring give way to the driver and make your presence known before entering; follow any instructions given.**
- Sample in the river approx. 80 m upstream of bridge.

Field Site Location Guide - Contact Recreation Run 2



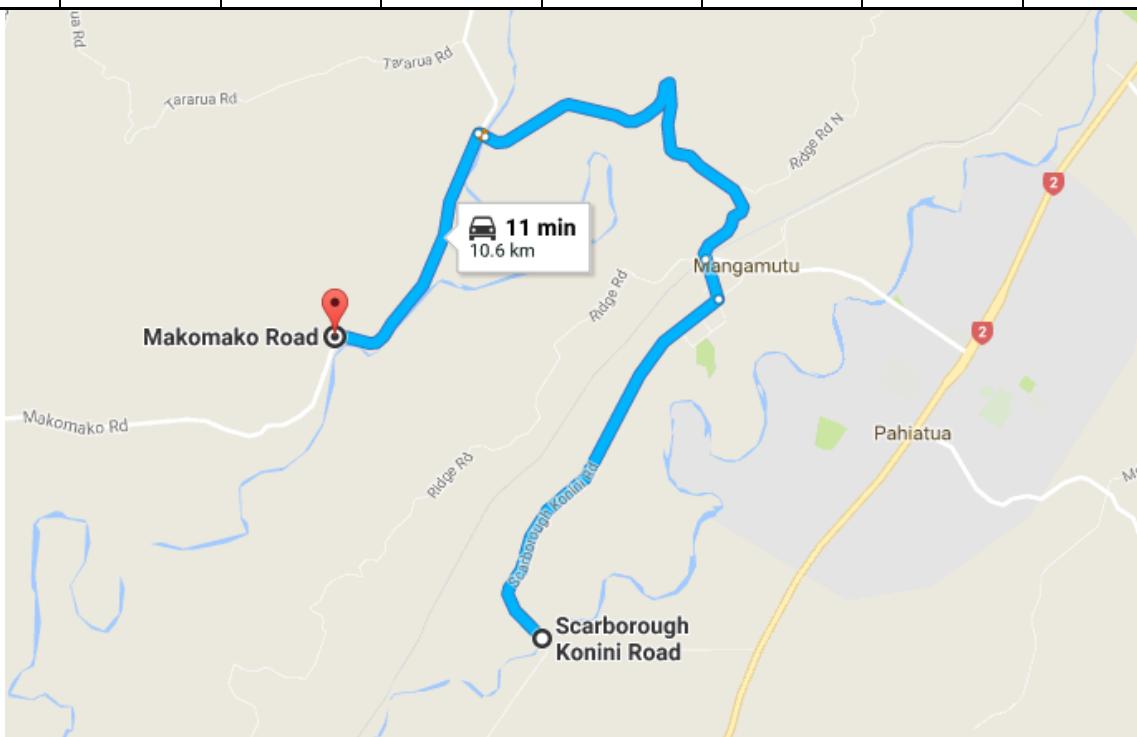
## Mangahao at Poplar Reserve (15 mins from previous site)

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

Drowning	UV Radiation	Slippery surfaces	Trip hazards
Weather/Temperature Extremes	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		
---------------------	-----	----------------------------	-------------------------	--------	-----------	--	--



- Exit the gravel track and turn left on to Scarborough Konini Rd (take care pulling out).
- Follow Scarborough Konini until the end of the road.
- Turn left on Pahiataua Mangahao Rd, drive past the Fonterra factory and continue on this road.
- At the bridge take a left onto Makomako Rd and continue on this road for 1.5km, you will come up to a bend in the road.
- Slow down as the entrance is concealed on your left (see below).
- Drive down and park to the right and follow the track to the left at the end and sample here.



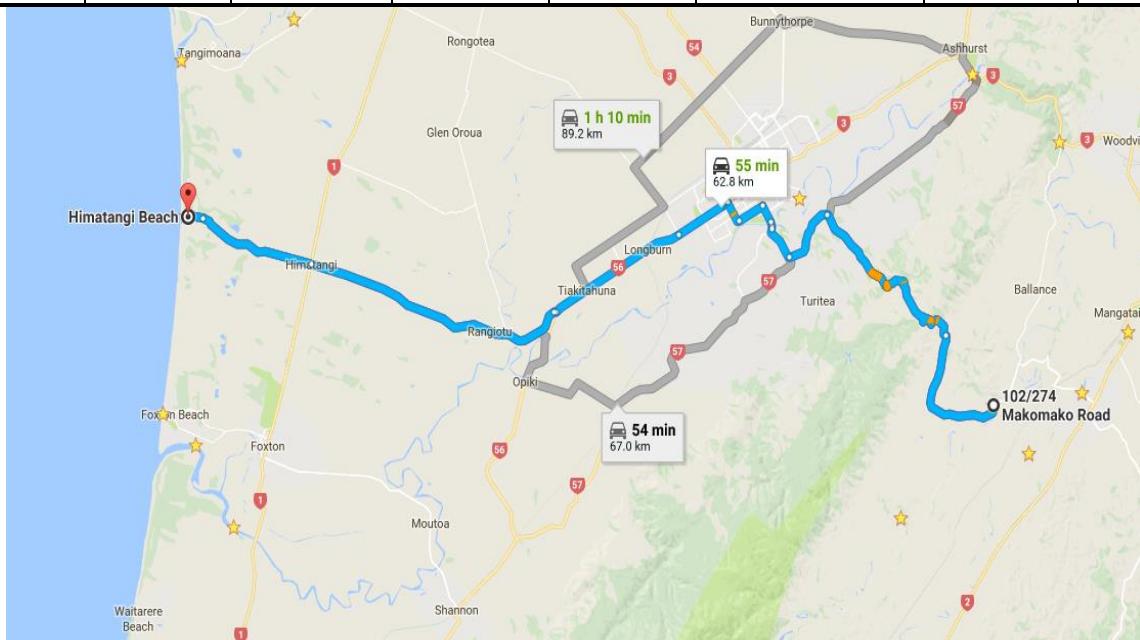
The entrance point.



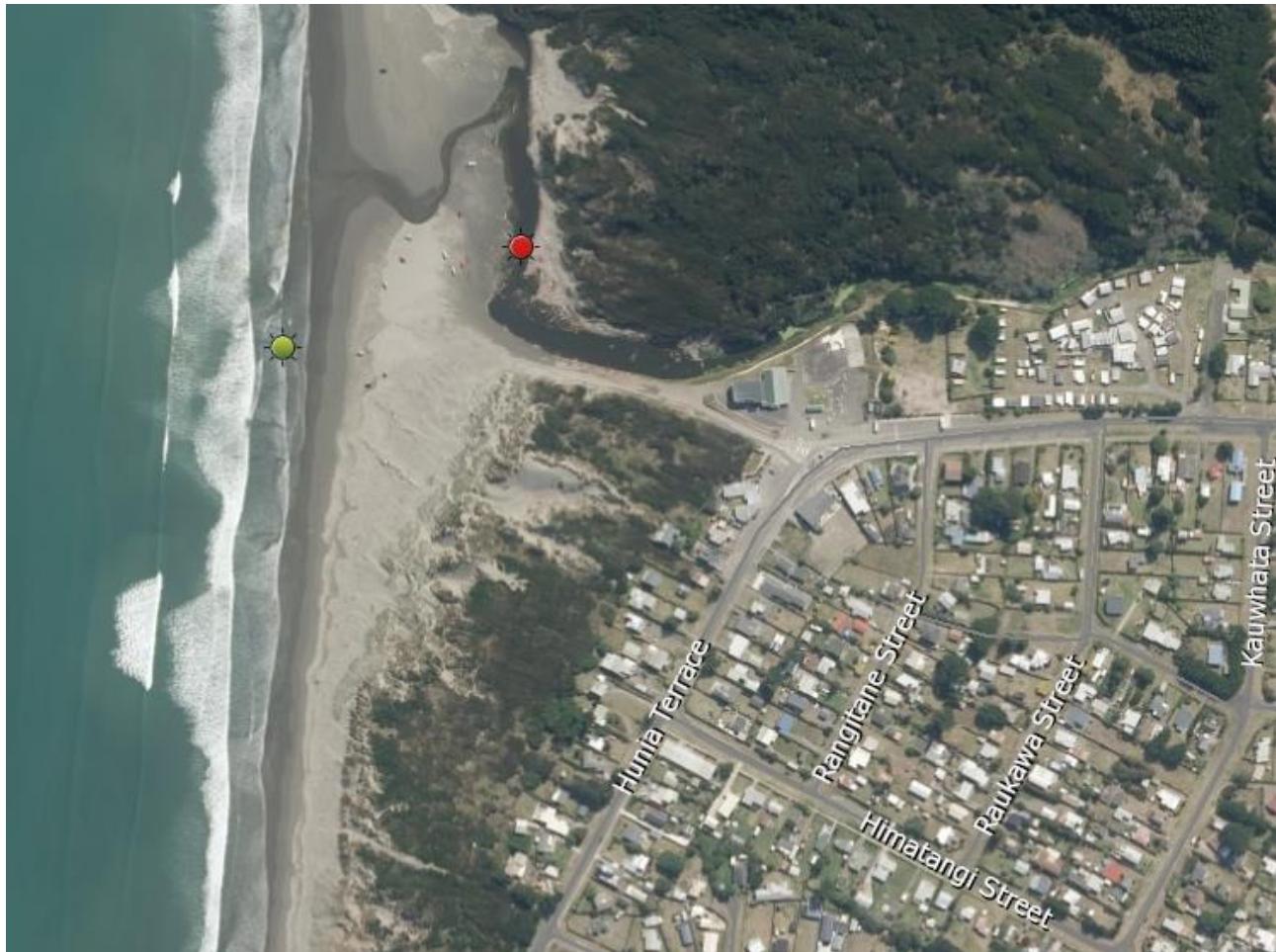
## Tasman Sea at Himatangi Beach & Kaikokopu Stream (1 hour)

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

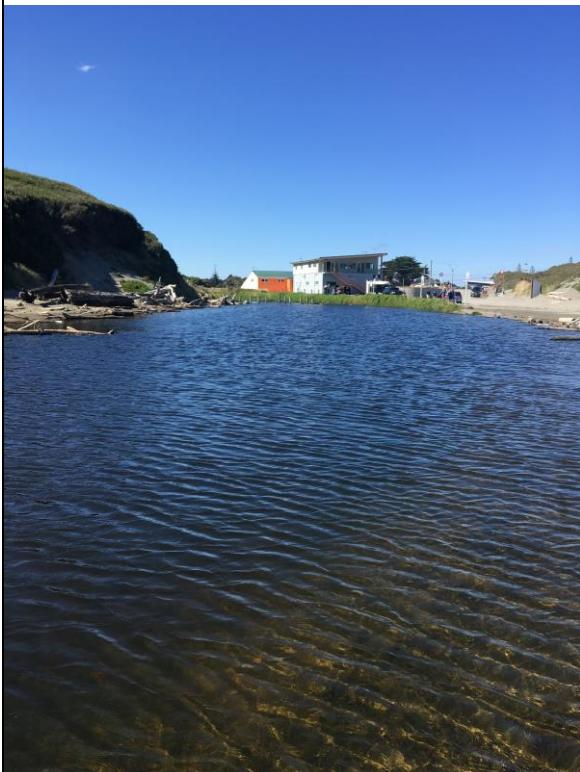
Drowning	UV Radiation	Weather/Temperature Extremes	Trip hazards				
Difficult entry/exit	Potential for difficult rescue	Traffic / Vehicle Movements					
<b>REQUIRED PPE</b> (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):							
WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	HI-VIS	VHF RADIO	SAMPLE POLE	



- Turn left out of Poplar reserve and continue on Makomako Road to the Pahiatua Track.
- Turn left onto State Hwy 57/ Aokautere Dr (signs for Palmerston Nth/Levin)
- Continue onto Summerhill Dr, over the Fitzherbert Bridge, and turn left on Park Rd
- Turn left onto Pioneer Hwy (signs for Levin)
- Turn right onto Rangiotu Rd (signs for Himatangi)
- At the cross intersection with the highway cross over and continue on Himatangi Beach Road
- Follow signs to Himatangi and as you get to the beach, the road will veer around to the left sharply and there is a dairy on the corner. Opposite the dairy are some parking spots. **Park here and walk to the sample locations on the beach and stream.**
- As you walk onto the beach you will be walking along Kaikokopu stream.
- Walk approximately 200 m south along the beach (to the left looking at the sea) and sample the sea here. To sample the stream, walk back along the stream until you get approx. 200 m downstream from where the road ends and sample here.



Aerial image of Himitangi beach. Ocean Sampling spot shown in green and stream sampling spot sown in red.



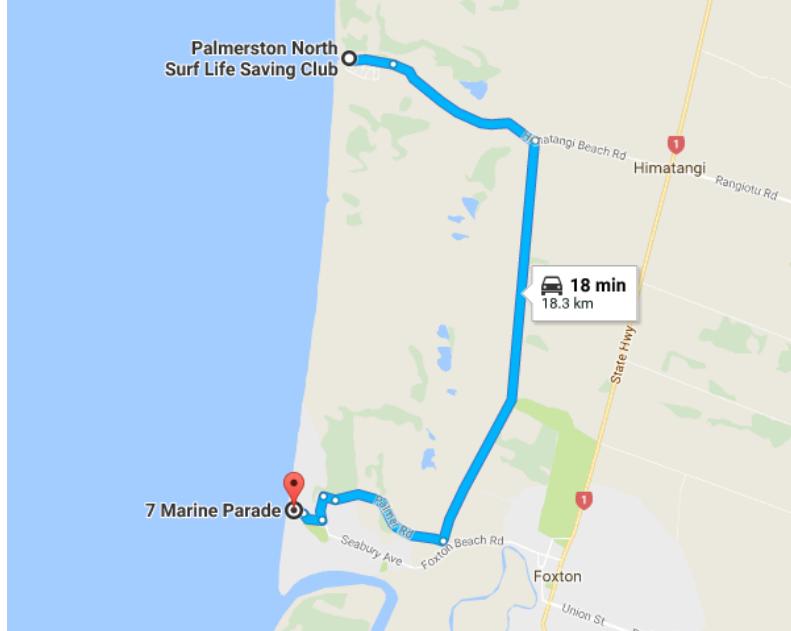
## Tasman Sea at Foxton Beach (20 mins from previous site)

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

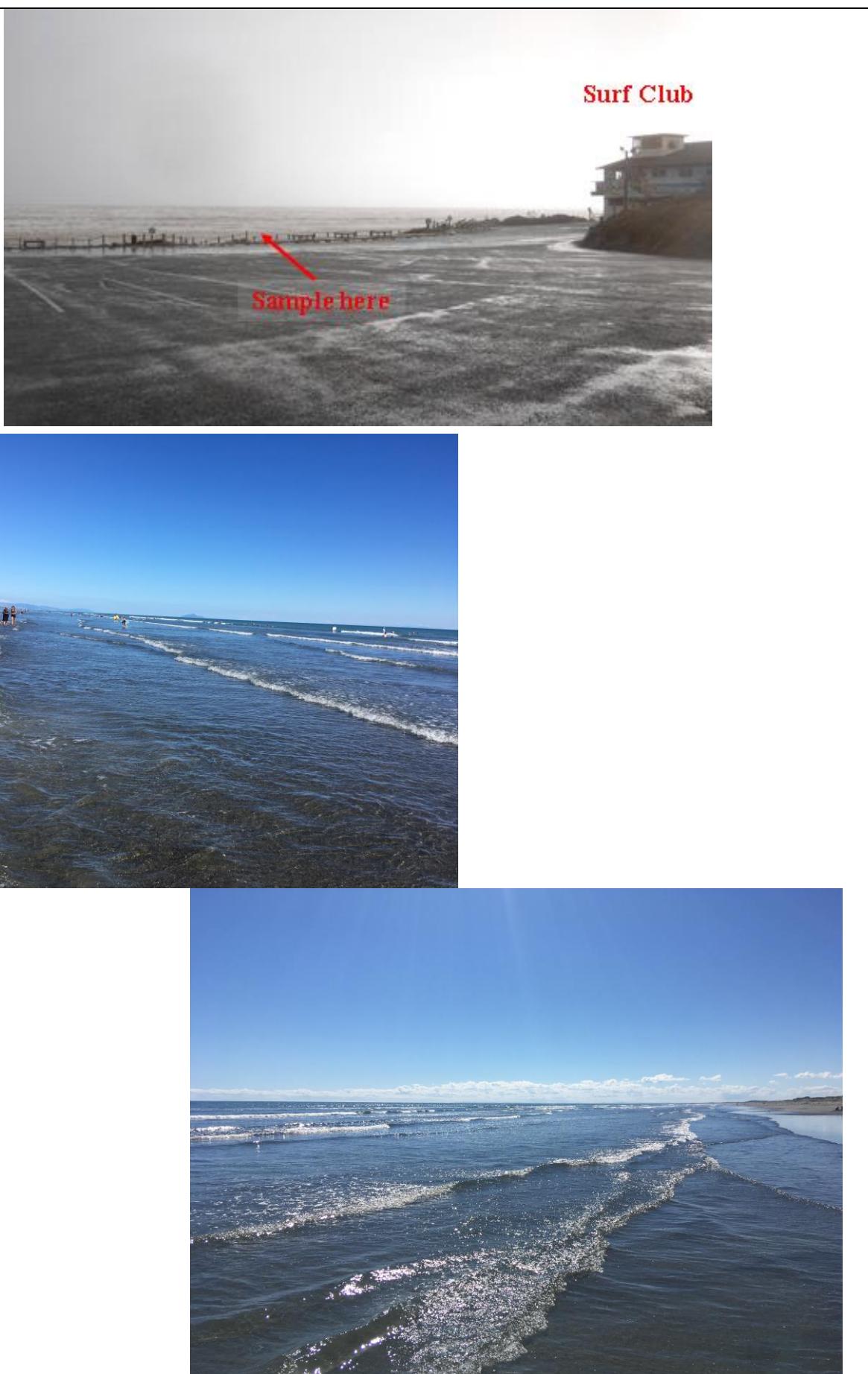
Drowning	UV Radiation	Weather/Temperature Extremes	Trip hazards
Difficult entry/exit	Potential for difficult rescue	Traffic / Vehicle Movements	

**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 Himatangi beach head back out of Himatangi the way you arrived. After leaving Himatangi and entering the 100 kmph zone travel for approximately 3 kilometres and the road will veer around to the left at a 65 kmph corner. There is another road that comes off to the right here. This is called Wylie Road. Take this right turn.
- Travel along Wylie Road right to the other end. Turn right onto Palmer Road here and follow this until you enter the 50 kmph zone. Continue on for approximately 200 meters and turn left into Nash Parade. Turn right onto Dewe Terrace and follow until the end, then turn right onto Ocean Beach Rd.
- Follow Ocean Beach Rd till you come to a round-a-bout. Take the second exit and you will come out into a large car park overlooking the sea. Park here and walk down to the beach. Sample anywhere here in front of the car park.



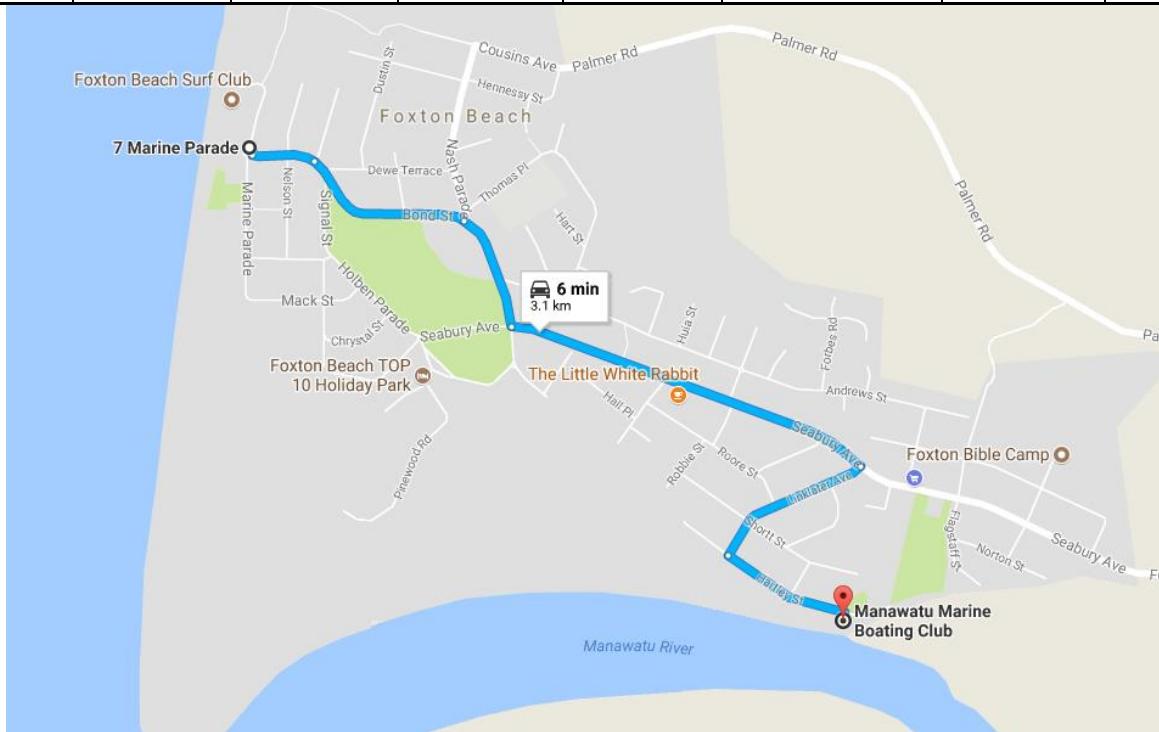
## Manawatu at Foxton (10 mins from previous site)

**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

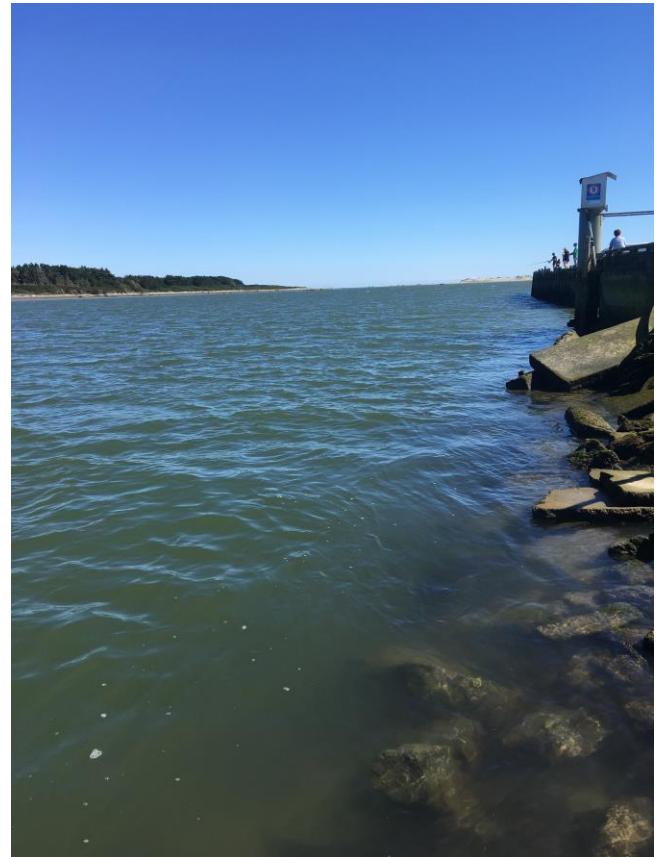
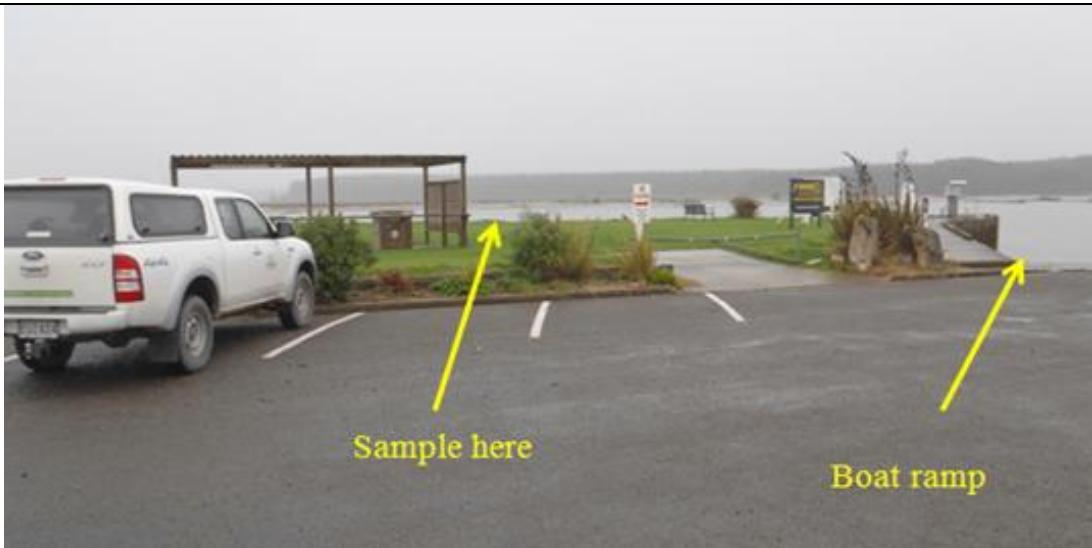
**REQUIRED PPE** (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

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



- Travel back out to the round-about and back onto Bond Street. Follow this around and it will become Nash Parade, continue going straight until you come to the intersection with Seabury Avenue and turn left here.
- Travel along here for approximately 2 kilometres and on the right hand side you will see Linklater Ave. This is immediately before a group of shops. Turn right in here. (Note: the road name can be hard to read, it is the 4<sup>th</sup> street on your right and a fairly sharp turn).
- Follow Linklater Ave to the end and turn left into Hartley Street. Continue along here for approximately 500 meters and you will come to the boat ramp. Park here and sample in the river just upstream of the boat ramp structure. You will need to climb down over the rock wall to get down to the river. Be careful as these rocks are unstable and slippery.  
Alternately you can use a sample pole to help reach the water and take a sample.

Field Site Location Guide - Contact Recreation Run 2



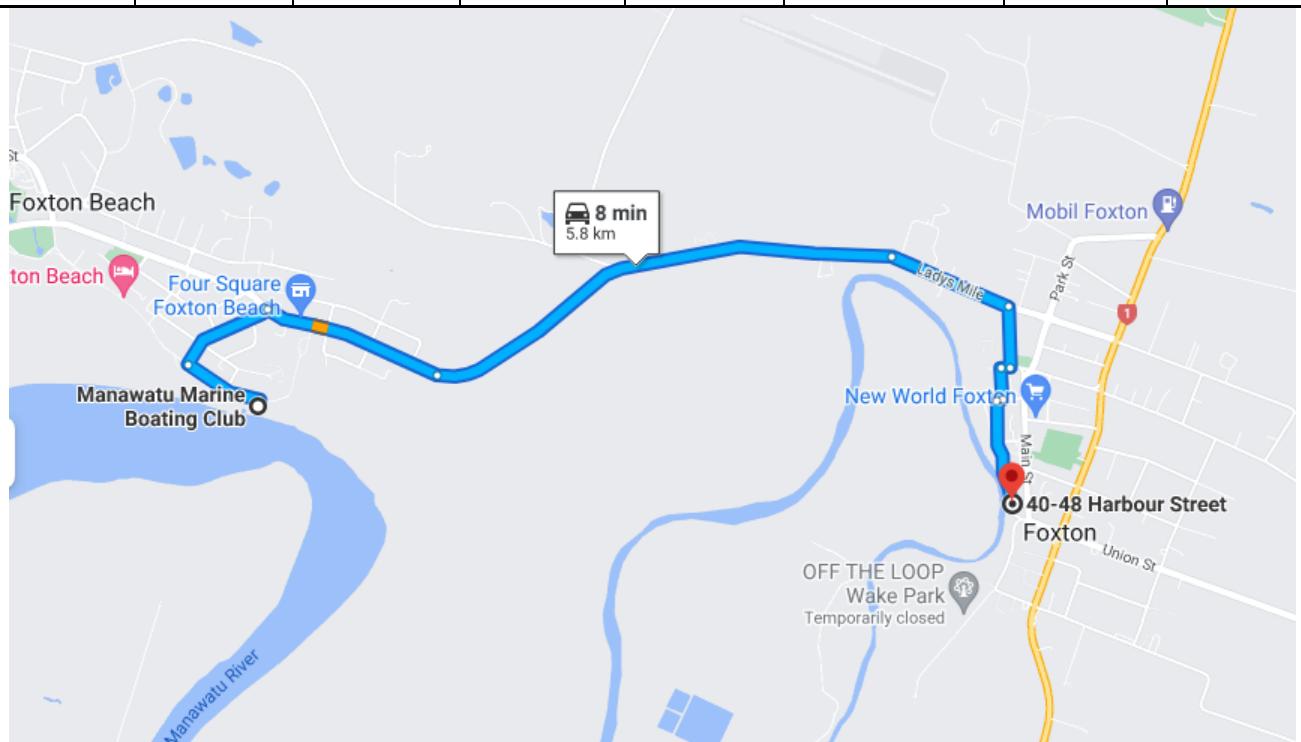
## Foxton Loop at Harbour Street Boat Ramp (8 mins from previous site)

**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	
---------------------	-----	----------------------------	-------------------------	--------	-----------	-------------	--



- Drive back along Hartley St and turn right onto Linklater Ave
- At the end of Linklater Ave, turn right onto Seabury Ave
- Continue onto Foxton Beach Rd
- After the 50km sign take the first turn on your right down Duncan Street (it will be after Manawatu College)
- At the end of the road, turn right onto Ravensworth Place. Travel for only about 150m and turn left onto Liddell Street
- At the end of Liddell Street, turn right into Clyde Street and then the road will curve around to the right onto Harbour Street
- Stay on Harbour St for about 5km. just before you get to the end of the road there will be a small boat ramp on the right. Park up on the grass and sample from the boat ramp. Be careful as it can be slippery, you may need to use a sample pole.

Field Site Location Guide - Contact Recreation Run 2



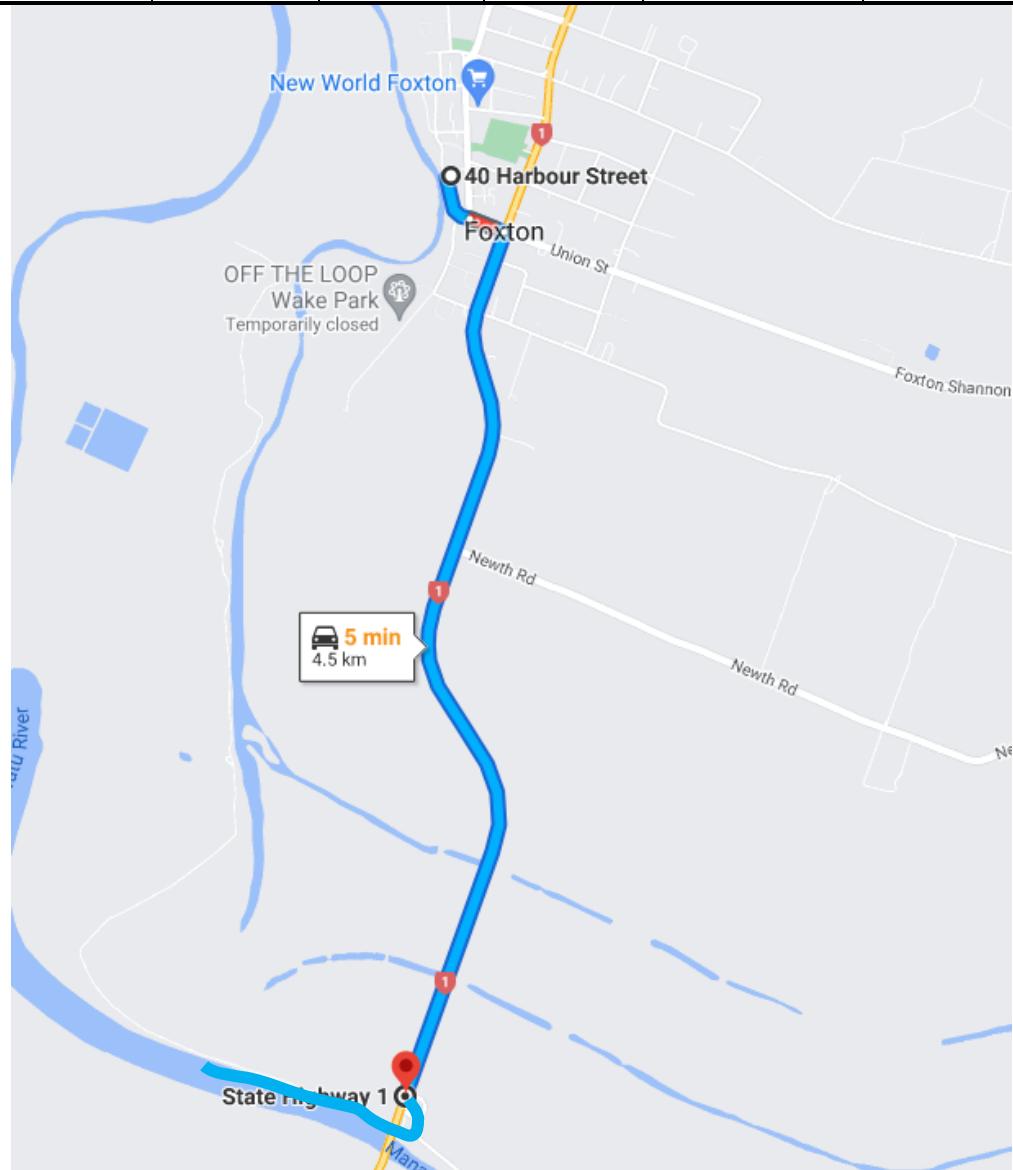
## Manawatu at Whirokino (6 mins from previous site)

**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	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	



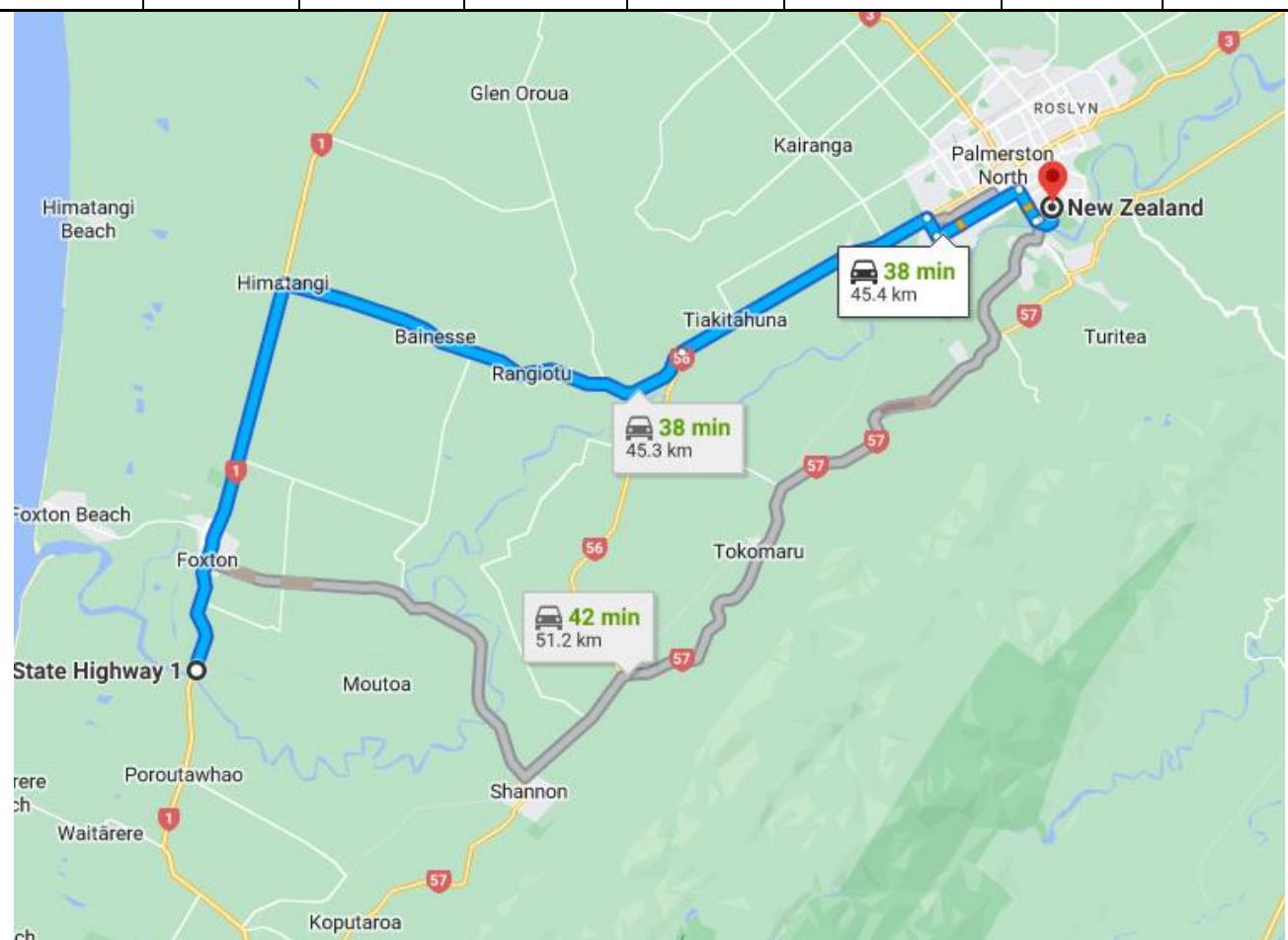
- From the Foxton Loop site, continue along Harbour St where you will meet an intersection with Union St (20m), continue straight and then turn right onto SH1
- Stay on SH1 for about 4km. You will see signs for 'Boat Ramp'. There will be a turn off the SH1 after the floodway bridge and just before you cross the Manawatu River.
- Take this turn and loop around under the bridge to stay on Matakarapa Road. This will take you up onto the stop banks next to the Manawatu River.
- You will cross a cattle stop and the road will turn into gravel. Travel for another 300m along this road until you see the boat ramp.
- Park up somewhere out of the way and take a sample from the boat ramp. If there are lots of people at the boat ramp, try and take a sample as from them as possible.



## Hokowhitu Lagoon at the Walkbridge (38 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	Traffic / Vehicle Movements	Weather/Temperature Extremes					
<b>REQUIRED PPE</b> (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	



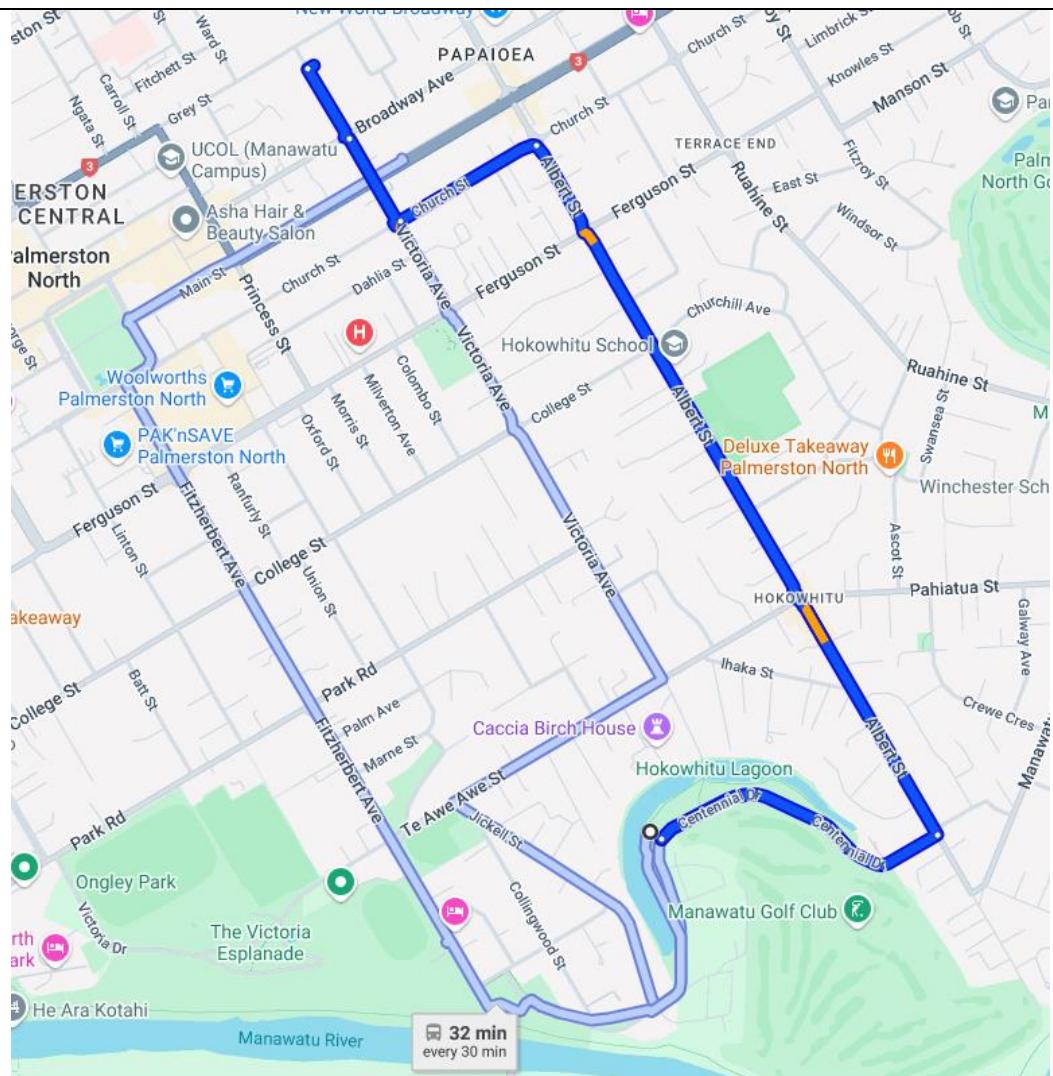
- Go back the way you came along Matakarapa Rd heading towards SH1. Turn left at the end of the street and then left again onto SH1 heading back towards Foxton.
- Stay on SH1 for 14km, back through Foxton.
- When you reach Himatangi you will see signs for Palmerston North (Rangiotu Rd), take this right.
- Stay on Rangiotu Rd until you reach Palmerston North.
- After you come into Palmerston North, take the first right turn (before you reach the first

set of lights) onto Maxwells Line.

- Follow Maxwells Line and turn left down College Street (3<sup>rd</sup> Street on the left)
- Continue on College Street until you reach the Fitzherbert Ave lights. When you reach these lights turn right onto Fitzherbert Ave
- Stay on Fitzherbert Ave until just before you cross the Manawatu River and take the last street on your left called Hardie Street
- About 200m down this street, turn right onto Centennial Drive
- Follow Centennial Drive as it curves around. Pull into The Chalet parking lot at Hokowhitu Lagoon and park
- Walk to the bridge that crosses the lagoon and take a sample just to the left of the bridge. You will need a sample pole and don't forget to take a 1L bottle sample as well.



## Finishing Up (7 mins to HRC)



### Going to HRC

1. From sampling site carpark, turn left onto Centennial Dr then left again onto Albert Street.
2. Follow Albert Street down until you reach the roundabout of Albert Street and Church Street. Turn left at this roundabout.
3. At the next roundabout, turn right onto Victoria Avenue. Follow Victoria Avenue straight down and before the T-intersection turn right into HRC.