

Periphyton Monitoring Run Guide

Eketāhuna TDC

POINT DISCHARGE/STATE OF ENVIRONMENT (Monthly Sampling)

			Job Hazar					
	hlighted	hazards a	ntification – tick all t are known hazards at tentially eliminate or is	the time of co	ompiling t	his docume	ent. This does not	
Hazard		Yes	Hazard		Yes		Hazard	Yes
Confined space			Suspended loads			Noise – pla	ant and equipment	
Difficult entry/exit		Falling objects			Communic	ation – means of		
Oxygen	Oxygen		Working near cranes an runways	nd crane		Remote ar	ea	
deficiency/excess		Live rails-gantry cranes		Temperatu	ire extremes			
Explosive gas	J		Trip hazards			Reduced v		
Flammable mater	ials		Slippery surfaces			+	ed persons	
Combustible mate	erials		Manual handling			High press	•	
Hazardous substa	ances		Sharp materials			Vacuum		
Drowning			Line of fire			Air emissio	ons – dust, fumes	
Engulfment			Pressurized fluids			General w	aste	
UV Radiation			Pressurized air/gas			Hazardous waste		
			Traffic / vehicle movements			Hydrocarbon / chemical spill		
voltage Voltage Voltage Voltage			Machinery – mobile plant			Soil disturbance/erosion		
Working at height			Moving parts			Habitat disruption		
						Lighting		
			Chemical reaction (Pyre	· · · · · · · · · · · · · · · · · · ·		Weather e	xtremes	
Elevated work platforms			Transport of hazardous	substances				
rescue			Stock/Farm Animals					
The yellow h	ighlighte	ed PPE are	Safety Equipment - e known required PPE or the appropriate requ	E at the time of	of compili	ng this doc	ument. This does i	not negate the
SAMPLING GLOVES		EAR ECTION	HARD HAT	SAFETY GLASSES / GOGGLES	-	BOOTS DERS	PROTECTIVE GLOVES	PERSONAL FLOATATION DEVICE (PFD)
(M)							THE REAL PROPERTY OF THE REAL	
					[
HI VIZ		AFETY RNESS	SUN BLOCK & HAND SANITISER	U VHF RADIO		HROW BAG		
		FETY	SUN BLOCK & HAND				PERSONAL	

Known Hazard	Signi	ficant		it be nated	Car be Isola	е	Method of control
	Yes	No	Yes	No	Yes	No	
Drowning	1			×		~	Staff should use a sample pole if access into the river/stream is unsafe. PFD's must be worn by staff. 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 [HMP 18]
UV Radiation	✓			~	~		Horizons provide sunscreen and hats. Staff are encouraged to make use of these. [HMP 17]
Engulfment	*			✓		*	Rivers/streams are prone to flash flooding creating the potential for engulfment. Staff must be alert and aware at all times of how the waterways are behaving around them, especially in areas where water is dammed or has structures such as intakes and aquaducts. 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]
Difficult Entry/Exit	~			~	~		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	~			✓	✓		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	~			•		~	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	√			v	~		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

Known Hazard	Significant		Can it be Eliminated		Can it be Isolated		Method of control
	Yes	No	Yes	No	Yes	No	
							satisfied that any slip, trip or fall hazards are isolated.
Slippery Surfaces	~			~	•		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]
Manual Handling	~			~	✓		Staff must wear sampling gloves, eye protection and have access to anti-bacterial hand-gel to sample treated effluent. Hepatitis B vaccinations are offered by HRC. [HMP 30] [HMP 35]
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 Animals	~			~	~		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	~			✓		✓	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	✓			~		~	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	~			*		•	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,

Known Hazard	Signi	ficant	Can it be Eliminated		Can it be Isolated		Method of control
	Yes	No	Yes	No	Yes	No	
							vehicle tracks, fence lines, stock positions, ponds, waterways, houses, and sheds as well as other significant items of interest. [HMP12]

Site Information

Hilltop Site Name	Easting/Long (NZTM)	Northing/Lat (NZTM)	Comments
Makakahi at u/s Eketahuna STP	1828141	5497242	Visual Assessment, Chlorophyll a Sample
Ngatahaka at u/s Makakahi Confluence	1827999	5497310	Visual Assessment, Chlorophyll a Sample
Makakahi at d/s Eketahuna STP	1828144	5497246	Visual Assessment, Chlorophyll a Sample

Contact details can be found here.

Sample numbers	THREE (Periphyton)
Equipment	 iPad/screen WITH iAuditor/Survery123 INSTALLED Bathoscope / Viewer Pottles Scrubbing brush, tooth brush and washer bottle Yellow sample bottle lid Ice cream container Chilly bins and ice-packs Disinfectant equipment for sampling equipment Sampling ID labels Alcohol gel Personal Locator Beacon 4WD Vehicle equipped with VHF Radio Throw Bag
Additional Comments/ Instructions	Take care getting to both upstream sites as there is a steep bank to go down that leads to the river. You may want chest waders as there are some deep sections to go through when walking to the u/s Makakahi site.

Equipment Required

SITE LOCATION MAP – Makakahi at u/s Eketahuna STP and Ngatahaka at u/s Eketahuna STP



POSSIBLE	E SITE HAZ	ARDS (this o	does not neg	ate ur	dertak	ing a hazard	review prior	· to
sampling o	n the day):							
Drowning		UV Radiation			Slippery surfaces		Trip hazards	
Difficult entry/exit		Potential	Potential for difficult rescue		Machinery- mobile plant		Traffic / Vehicle Movements	
	emperature emes							
REQUIRE	D PPE (in ac	cordance wi	th above haz	zards -	- this d	loes not nega	ate undertak	ing a
hazard revi	ew prior to sa	ampling on tl	he day and/c	or usin	g addit	ional PPE if	deemed nec	essary):
WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	THROW BAG VHF RADIO		HI-VIS		
DIRECTIO	NS:							
 Con here After 	n the office go tinue along Ni and follow ur r the GAS sta s the bridge.	kau Rd (whic ntil you get to	ch changes ir Eketahuna.	nto Tut	aekara	Rd) until you	ı reach SH2.	·

- Walk the farm track that runs alongside the river and walk around the STP ponds. Climb over the fence at the back of the ponds and carefully make your way down to the Makakahi river.
- Sample the Makakahi River upstream of the discharge point.
- Return to where you entered the river and cross over to the Ngatahaka. Sample upstream of the confluence.





SITE LOCATION MAP – Makahika at d/s Eketahuna STP

Drowning		U٧	'Radiation		Slippe	ery surfaces	Trip hazards	
Difficult entry/exit		Potential for difficult rescue		Machinery- mobile plant		Traffic / Vehicle Movements		
	emperature emes							
REQUIREI	D PPE (in ac	cordance wit	th above haz	zards -	– this d	oes not nega	ate undertak	king a
hazard revi	ew prior to s	ampling on th	ne day and/o	or usin	g addit	ional PPE if	deemed neo	cessary):
WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	& PERSONAL & LOCATOR THROW BAG VHF RADIO HI-VIS HAND BEACON					
DIRECTIO	NS:							
 Fron 	n the u/s sites	s return to SH	2 and turn le	ft.				
 Take 	e the first left	onto Macara	St and follow	until t	he end	. Park in the g	golf club car	bark and

