01 04/05/2020 Flow Metering

### **Horizons Regional Council**

Section No: Appendix 3 Page: 1.8

ge: 1 of 7





Hydrology Operations

Manual

#### Working During a declared Pandemic Flow Meters (Mike Moyes)

#### Overview

This procedure was developed during the COVID-19 Pandemic of 2020. This should be read in conjunction with other SOP's, official government advice and Horizons Emergency Management directives. This document applies to Flow Metering and is primarily the work Mike Moyes does. This appendix focus is purely Flow Meters. For other department activities please refer to your other procedures (Environmental data cd\_om\_1.8 Pandemic work)

#### Risk Analysis

#### Current knowledge

- Currently, the incubation period of COVID-19 is assessed to be between 2 and 14 days.
- This means that if a person remains well 14 days after contact with someone who has coronavirus, they are not contagious (it is possible to have contracted the disease but remain asymptomatic).
- Infection can be spread to people who are nearby (within 2 meters) such that droplets could be inhaled into the lungs.
- It is also possible that someone may become infected by touching a surface, object or the hand of an infected person that has been contaminated with respiratory secretions and then touching their own mouth, nose, or eyes (such as touching door knob or shaking hands then touching own face)
- Covid-19 is highly infectious
- Covid-19 can cause serious illness and death

#### What are the symptoms?

Symptoms of COVID-19 are similar to a range of other illnesses such as influenza and do not necessarily mean that you have COVID-19. Symptoms include:

- Fever
- Sneezing
- Coughing
- Temporary loss of smell
- Sore throat
- Runny Nose
- Difficulty breathing.



Difficulty breathing is a sign of possible pneumonia and requires immediate medical attention.

#### General

During the Pandemic it will not be business as usual. Essentially during level four all Flow metering programmes are suspended. During Level three programmes will start being brought online. This plan will change as we proceed through the levels and as more information come through.

- Working from home except of course approved field work
- One person per truck
- Management approval to start a run (Get Home safe tracking essential)
- No "Cold calling" ring ahead of time and gain permission of land owners

04/05/2020 Flow Metering

### **Horizons Regional Council**

Section No: Appendix 3 Page: 1.8





Hydrology Operations Manual

#### Working During a declared Pandemic Flow Meters (Mike Moyes)

#### Before conducting field work

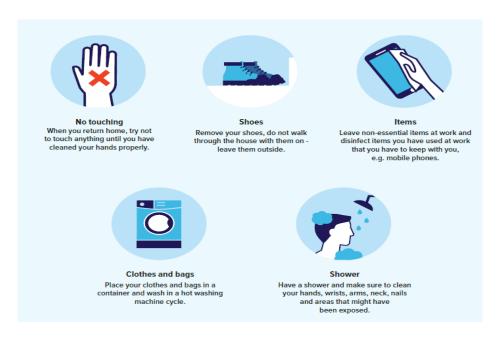
- Staff that need to work in the field must obtain permission from their Manager / Team Leader or nominated person of planned locations and approximate time of return to office or home. Mike Moyes to email Brent Watson, Paul Peters and Jacob Channon his work plan and receive an approved email from Brent before starting work.
  - (Normally at least the day before).
- Call the occupier or land owner before visiting the site:
  - Confirm access time and date:
  - Check if anyone will be in close proximity to area of work;
  - Explain what work you intend doing and the precautions you will take.
  - Confirm that they are happy for you to be onsite.
- If you are visiting sites controlled by other PCBU's you must follow their protocols at all times, unless their standards are less than is required by the Council's procedures.
- If the site is in a public place, also sanitise all contact points on the shared external surfaces such as gates, latches etc. both on entry and exit.

#### Contract tracing

As a staff member working in the field, you <u>MUST</u> keep a daily record of who you have been in contact with in relation to your Council work – if you are identified as a close contact of someone with COVID-19, you will need to be able to provide this information to the Ministry of Health to enable contact tracing.

#### Returning home

To stop the possible spread of COVID-19, it is important that when you return home after work, you take all the necessary precautions to ensure that you and everyone in your bubble are safe. Here are five simple guidelines to follow:



04/05/2020 Flow Metering

# **Horizons Regional Council**

Section No: Appendix 3 Page: 1.8

dix 3 3 of 7







### Working During a declared Pandemic Flow Meters (Mike Moyes)

#### Storage and use of vehicles

Pandemic	Operating principles
Level	
2 or Less	BAU
3	Keep vehicle full with fuel, and clean ready for repurposing in case of level 4 escalation. Sanitise hands with
	regularly, when entering vehicles. Store vehicles at your private residence unless directed otherwise. Vehicles
	are to be cleaned and high contact areas (steering wheel, hand brake, door handles) sanitised at the end of each
	day.
4	Store vehicles at your private residence unless directed otherwise. Use only the single vehicle assigned to
	you. Do not swap vehicles unless you are authorised to.
	Do not access other vehicles for the purpose of sourcing equipment and spares, ask the person who is
	assigned that vehicle to do this for you if needed.

#### Staff or public contact during pandemic

Pandemic	Operating principles
Level	
2 or Less	BAU: consider others, they may still wish to exercise physical distancing. Stay away if you are feeling unwell.
3	Limit face to face meetings. Where possible keep to the 2 metre physical distancing guidelines. Wash hands
	with soap regularly. Maintain a log of all contacts for possible contact tracing. Use the Get Home Safe App
	and use the manual check in feature. Note: the name of person or meeting that took place.
4	Management / EOC approval is required prior to staff having direct contact with the public. This approval may
	simply be for the duties you need to carry out. When approved staff are to follow strict physical distancing for
	any person who does not belong to your bubble (those you currently live with). Do not stand closer than 2m
	from anyone, if windy double this distance, or ensure there is a cross wind. Maintain a log of these face to face
	encounters and who you have met with. Wash hands thoroughly with soap regularly.

#### Accessing office/depot during pandemic

Pandemic	Operating principles
Level	
2 or Less	BAU: consider others, they may still wish to exercise physical distancing. Stay away if you have flu like
	symptoms.
3	Work from home where possible. Exercise physical distancing. Stagger smoko breaks. Limit face to face
	meetings. Approval from Manager is required before accessing office, sheds or depots. GethomeSafe app must
	be used for all works.
4	Management / EOC approval is required prior to entering an HRC office or depot for any reason. Accessing an
	HRC office or depot will be considered as a last resort and be undertaken by named essential staff only. Plan
	and prepare to reduce need to access an office or depot space. All effort needs be made to control the
	spread of the virus. Wash or disinfect hands prior to entering the office. Restrict access to one external
	door and minimise movements within the building. Treat both yourself and every surface as though they
	are infected. Avoid using bathroom and kitchen facilities where possible. Avoid touching
	surfaces with hands, sanitise your hands have before and after entering an office or room. Always cough into
	your arm or a tissue and discard tissue responsibly. Movements in and out of HRC offices will be monitored
	by EOC.

04/05/2020 Flow Metering

# **Horizons Regional Council**

Section No: Appendix 3 Page: 1.8

ndix 3 : 4 of 7



# regional council

### Working During a declared Pandemic Flow Meters (Mike Moyes)

Accessing monitoring sites during pandemic

Pandemic	Operating principles
Level	
2 or Less	BAU: consider others, they may still wish to exercise physical distancing. Stay away if you are feeling unwell.
	Use the get home safe app every time you are in the field.
3	A risk assessment needs to be done prior to visiting any site taking into consideration likely C19 transmission
	hot spots such as Sheds, fixed equipment, gates, handrails etc.
	Urban monitoring stations likely pose a higher risk due to movements of people out exercising etc. Clean all
	surfaces on arrival and exit.
	Only one person to be in a vehicle at any one time. Try to limit Vehicles to dedicated drivers only. Limit face
	to face meetings. Where possible keep to the 2 metre physical distancing guidelines.
	Wash hands with soap regularly. Use the Gethomesafe app to report your duties and intended time that you
	will be safely home.
	No "Cold Calling" call ahead and gain permission from land owners. Try to keep runs to regular staff members
	consider runs that require inductions and ensure only inducted staff perform those runs.
4	Authorisation needs to be obtained from the department data manger or deputy before visiting any site.
	Only priority sites are to be visited (Flood warning, IVR, critical webcams, and supporting infrastructure). A
	risk assessment needs to be done prior to visiting any site taking into consideration likely C19 transmission
	hot spots such as gates, handrails etc. Urban monitoring stations likely pose a higher risk due to movements
	of people out exercising etc. Only one person to be in a vehicle at any one time. Try to limit Vehicles to
	dedicated drivers only.
	Make an effort to contact landowners especially if you need to pass through a number of paddocks etc.
	i wake an enort to contact landowners especially if you need to pass through a number of paddocks etc.
	Wash hands with soap and water prior to accessing a site.
	Where practical, access site via the nearest public road, duck through fences rather than having to touch
	gates. If opening a gate is unavoidable, disinfect gate after touching. Wash hands thoroughly prior to leaving
	each site. Wash hands thoroughly with soap regularly.

#### Refuelling vehicle during pandemic

Pandemic	Operating principles
Level	Operating principles
2 or Less	BAU: consider others, they may still wish to exercise physical distancing. Stay away if you are feeling unwell.
3	Keep vehicle full with fuel in case of level 4 escalation. Wash hands with soap regularly. Where possible
	refuel locally, before leaving for a day in the field.
4	Please take care in all areas where there is higher levels of 'people traffic' such as petrol stations. Try to
	refuel at the same fuel station near to your home. Ensure tank is full at the start or end of a day before
	leaving your local area.
	Priority should be given to unmanned petrol stations to reduce human contact (do our fuel cards work at
	these?) Wash hands prior to touching anything at a petrol station.
	Open fuel cap. If pump attendants are present let them insert put pump nozzle and inform attendant that
	you will close the fuel cap yourself.
	you will close the fuel cup yoursen.
	Where nessible use corner of fuel card to push oftnes buttons. Check fuel can is closed, wash or disinfest
	Where possible use corner of fuel card to push eftpos buttons. Check fuel cap is closed, wash or disinfect
	both hands and fuel card before re-entering vehicle.

04/05/2020 Flow Metering

# **Horizons Regional Council**

Section No: Appendix 3 Page: 1.8

ix 3 5 of 7





# Hydrology Operations Manual

### Working During a declared Pandemic Flow Meters (Mike Moyes)

#### Undertaking work that requires two staff on site

Pandemic	Operating principles
Level	
2 or Less	BAU
3	One person only in a vehicle, maintain the physical distancing rules (2 metres)
4	Authorisation needs to be obtained from the department data manger or their deputy. A log must be
	maintained of who was working with who in case contact tracing is needed. In the event two staff are
	required onsite for safety reasons staff are to drive in separate vehicles to the site.
	Prior to starting works wash or disinfect hands.
	Do not touch your workmates vehicle, tools, or equipment and ensure you maintain a distance of at least two meters at all times.
	In the event a heavy item needs two people to lift onsite ensure that it is disinfected prior to being reloaded into a vehicle.

#### Hand washing and disinfecting surfaces

2 or Less	BAU
3	Refer to guidelines for level 4.
4	According to NZ's Ministry of Health, hand washing often with soap and water for 20 seconds, then drying
	your hands for 20 seconds, is a vital practice needed to reduce the spread of covid-19.
	Carry a minimum of 10L of water, a cake of soap or liquid hand soap for hand washing. You will also need to carry disinfectant spray for the purpose of disinfecting those surfaces you have touched onsite that might lead to virus transmission such as gates and gate chains.
	Treat yourself and surfaces (gates etc) as though they are infected with C19. It is essential we change our behaviour to ensure we take the above precautions, as essential workers travelling large distances it is vital we safeguard the communities we are travelling to and of course our colleagues and ourselves.

01 04/05/2020 Flow Metering

# **Horizons Regional Council**

Section No: Appendix 3 Page: 1.8

ndix 3 6 of 7





# Hydrology Operations Manual

### Working During a declared Pandemic Flow Meters (Mike Moyes)

#### Work Plan:

Date	Task	Who
05-05-2020	Mike Moyes to go to Mckays line on the outskirts of fielding and replace logger	Mike Moyes
		Pre-Approved (Brent Watson)
07-05-2020	Mike Moyes to meet Andrew Swanney at site HDC Foxton beach 1, carry out safe working practices according to HRC covid 19 guidelines	Mike Moyes Pre-Approved (Brent Watson

		Core ED	unctions														
Programmes Current status:	Flood / IVR	Consents	Webcams	ED sites	Survey	Flow meters	Manual GW	SoE Surface	SoE Ground	SoE Lakes	Periphyton	Macroinverts	Contract WQ	Swim Spots	Fish	Coastal	ESR Trial
Current Level: 3  Level 3 - Restrict  Heightened risk that disease is not contained	Key flood warning sites (IVR sites, River Level, Rainfall, Soil Moisture, Repeaters)	Resource consent sites (Telemetere d)	Some webcams are funded by emergency managemen t and may be deemed critical	Other hydro sites (including continuous water quality)	Field based surveying	Flow metering field based activity	Manual GW & lake levels	State of Environmen t Surface Water	Groundwate r Completed for now. Next run in June	Coastal lakes, different rules for helicopter and boat lakes. Review of program	Periphyton	Macro invertebrat es	Including WQ and Periphyton work under contract e.g. TDC	Contact Recreation. programme suspended early by mid central health	Fish monitoring, programme incomplete	Coastal and Estuary monitoring	Last sample on 23rd of March
Level 0 - No Pandemic										Programme under review							Programme now on hold
Level 1 - Prepare  Disease is contained													Inform contract mangers of our limitations	Inform and discuss with mid central health			
Level 2 - Reduce Disease is contained, but risks of community transmission growing	Clean and maintain sites in prep for extended period without access to site	Clean and maintain sites in prep for extended period without access to site	Ensure key EM webcams are operational, batteries etc	Clean and maintain sites in prep for extended period without access to site		Check and ensure run guides are up to date	Check and ensure run guides are up to date	Check and ensure run guides are up to date	Check and ensure run guides are up to date	Check and ensure run guides are up to date	Check and ensure run guides are up to date	Check and ensure run guides are up to date	Check and ensure run guides are up to date	Check and ensure run guides are up to date			
Level 3 - Restrict  Heightened risk that disease is not contained	one person per vehicle	one person per vehicle	one person per vehicle	one person per vehicle	one person per vehicle	one person per vehicle	one person per vehicle	one person per vehicle	one person per vehicle	Boating not permitted under level 3. No Helicopter sampling	one person per vehicle	one person per vehicle	one person per vehicle inform all parties of status	one person per vehicle	one person per vehicle	one person per vehicle	one person per vehicle
Level 4 - Eliminate Likely that disease is not contained	Permission required from EOC	Only when directed by EOC	Only when directed by EOC	Cease activity	Cease activity	Cease activity	Cease activity	Cease activity	Cease activity	Cease activity	Cease activity	Cease activity	Cease activity inform contract partners this can affect consents	Cease activity inform mid central health	Cease activity	Cease activity	Cease activity