



Wastewater Overflow & Clean Up - Maintenance Procedure

Procedures to ensure public health and safety by identifying and repairing wastewater blockages. The protection of public health and safety is the primary consideration in the clean-up of sewer overflows, not cost.

Health & Safety and Operational Information







Health and Safety Information

- Health and Safety documentation.
- Generic Traffic Management Plans or site-specific Traffic Management plan.
- Hazardous Waste
- **Confined Space Entry**
- Gas detection

Customer Information (Confidential)

- Blow Back at risk customers (WWL)
- Vulnerable customers (DHB supplied list)
- Priority customers (WWL)

Operation's & Maintenance Documentation

- Corridor Access Requests (CAR) and WIP Permits (site specific or generic/global)
- Service plans (B4uDig)
- Design drawings
- Site plans
- **Notification Calling Cards**

Priority Customer Categories

Additional Documentation

- Schools and Childcare
- Commercial premises
- Hospitals
- Retirement Homes/Villages
- **Correction Facilities**
- Military Installations
- Oil and Gas Refinery

Emergency Procedure / Escalation

Emergency

- In event of service strike to utility/energy source (e.g. fuel, Gas, Power, Water etc.) report immediately to team leader
- Make "Site Safe" and isolate risks to people or property with resources at hand

Escalate if extra resources required or problems occur!

Escalate to Team Leader and inform of the issues faced and/or expected resources required if necessary.

Required Skills, Competencies (Qualifications and/or Certifications)

Competent persons only

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Wastewater Overflow & Clean Up - Maintenance Procedure Standard Operating Procedure

Required Equipment

Equipment and Information	Details
Fully Equipped Vehicle	Ensure vehicle, plant, equipment and materials appropriate to the day's work
	schedule is available
Vulnerable & Priority List	Vulnerable and priority Customers Lists.
Specialist Equipment	Roding equipment
	Water Jetting Equipment
	Sucker truck where required.
	Tripod and safety harness
	Gas detection
	Ensure equipment is made available to prevent or minimise discharges to property
	and the environment
Flow control materials	Sand bags, bundling and containment materials
Sterilisation Kit	Site sterilisation equipment

Prepare to do the work

Action	Action Details
Pre Start Process	Complete the Daily Pre Start - Planning Reactive Maintenance
Compliance	Traffic Management Plan - Where required, TMP to be in place prior to work
	starting. TMP to be accessible on site.
Compliance	Ensure equipment is made available to prevent or minimise discharges to the environment
Identify discharge cause	Overflows caused by a network surcharge are a higher priority than those created from a blockage, so if possible eliminate or manage the overflow source prior to
	clearing the blockage.
Customer Notification	Inform affected properties of the overflow via door knock and / or letter drop.
Blow Back List - Pre-flushing	Check affected network service area against current Blow Back list.
notification	If possible, notify of closure and intent to flush system (If required) and expected
	timeframe for non-utilisation.
	Provide at risk properties with Blow back prevention instructions sheet.
Alternate supply and Vulnerable	Dependant on nature of event and customer needs arrange alternate service
and Priority Customers	provision for Vulnerable and Priority Customers.
	See Alternate Wastewater Service Process
	Raise a child work order for provision of this service.
	Synchronise IPad.
Hi risk discharge locations	List of all high risk discharge locations and associated mitigation actions for both
	Wastewater and Stormwater networks
Sucker truck	Arrange for Sucker truck to collect wastewater from an upstream point to prevent
	further overflows.
	May be required to clear wastewater blockage.

Perform the work

Action	Trade	Action Details
Maintenance	Competent	Undertake all tasks required in the Pre-Start - Planning for Reactive Maintenance.
	Serviceperson	Implement TMP. Review and update as needed to suit site conditions.
Minimise flow	Competent	If possible control the source of the wastewater discharge.
	Serviceperson	Initiate overland pumping or diversion of wastewater flow where possible to reduce
		overflow volumes.
Trace Issue	Competent	Identify cause of wastewater overflow.
Source	Serviceperson	Trace flow and identify blockages downstream to open free flowing network and
		upstream to determine if cause is blockage.
		Identify access manholes to be utilised to unblock or redirect network flow.
		Utilise the iPad embedded GIS to locate all network manholes.

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Action	Trade	Action Details
Private source	Competent	Where blockage is private notify property owner and advise property owner to
	Serviceperson	engage a plumber/drainlayer.
		Where blockage is on the public mains follow procedure below.
		If there are pollutants / effluent on public land, make safe and clean up this area to
		required standard.
Surcharge	Competent	If overflow cause is due to network overload / beyond capacity notify supervisor
	Serviceperson	and implement flow control and containment measures.
Assess Risk	Competent	If properties are flooded, have the potential to flood or suffer from wastewater
	Serviceperson	overflow raise separate work order to deal with property damage mitigation and
	_	use emergency / escalation process contact your Supervisor.
Environmental	Competent	Identify areas to be protected from potential pollutants and run off.
Assessment	Serviceperson	If possible, control flow and storage of overflow effluent to minimise impact to
		property, people and the environment.
		Utilise bark bunds and sandbags etc. to contain and/or direct flow to reduce
		property and environmental impacts.
		Sewer or overland flows must be contained as soon as possible or practical, particularly where flow enters any of the following:
		- piped stormwater systems,
		- open stormwater drains
		- streams (or other waterways)
Environmental	Competent	If required request a network trace from Infonet staff at Wellington Water to
Assessment	Serviceperson	identify all affected areas and receiving environments downstream.
		Supervisor's approval is required
		Identify potential areas where control and damage mitigation can be implemented
Containment	Competent	If possible, arrange for sucker truck(s) to assist in clean up and control measures,
	Serviceperson	this must be done with Supervisor's approval.
Assess Service	Competent	Based on event scale and issue encountered, provide an estimated timeframe for
Loss	Serviceperson	closure of network or area.
		Update the work order, work log with this information and save work log.
		If significant event call your supervisor and update directly.
Raise Child Work	Competent	Dependant on nature of event and customer needs arrange alternate service
Order	Serviceperson	provision for Vulnerable and Priority Customers.
		Raise a child work order for provision of this service.
		Synchronise IPad
Ecology	Competent	View GIS, inspect area, determine safety requirements and complete Hazard
	Serviceperson	assessment form.
		If required request a network trace from Infonet staff at Wellington Water to
		identify all affected areas and receiving environments downstream.
Public Safety	Compotent	Arrange for signage, gates, cones and other safety requirements to be deployed
Public Salety	Competent Serviceperson	along affected routes to ensure public health and safety is maintained.
Communications	Competent	Do not communicate in any way, on the cause of the fault or property damage with
Communications	Serviceperson	the affected party or media.
	Jei viceperson	This activity is only to be performed by a Planning Engineer.
Clean-up	Competent	If possible, arrange for sucker truck(s) to assist in clean up and control measures,
cican ap	Serviceperson	this must be done with supervisors' approval.
		Wastewater discharge can be to either the wastewater treatment plant or agreed
		alternate network location.
		Follow overflow route from sea to source removing all polluted materials
		Ensure areas, which have been contaminated are sterilised in a method
		appropriately to their location.
		On completion of site clean-up select service restored status on the work order
		Dispose of all contaminated materials to landfill or treatment plant as appropriate.
Raise Child Work	Competent	Dependant on nature of event and customer needs arrange alternate service
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Action	Trade	Action Details
Order	Serviceperson	provision for Vulnerable and Priority Customers. See Alternate Waste Water Service
		Process
		Raise a child work order for provision of this service. Synchronise IPad
Notifications	Competent	Notify WWL Planning Engineer within one hour.
	Serviceperson	
Inspection	Competent	Perform visual inspection of the site and affected areas to ensure NO wastewater
	Serviceperson	sludge remains and that clean-up is thorough and complete.
Reinstatement	Competent	Reinstate grass or plants damaged by the overflow or disinfection procedures.
	Serviceperson	
Health and Safety	Competent	Disinfect yourself and dispose of or sterilise all PPE and tools with 100mg/l chlorine
	Serviceperson	solution.
		Staff expected to return to working on Potable water network must ensure there is
		no risk of cross contamination with PPE or tools.
Documentation	Competent	Complete the wastewater overflow report form.
	Serviceperson	Ensure all details are completed and that the form is saved and contains appropriate
		/ relevant work order and asset information.
Assess need for	Competent	Investigate the materials removed to determine the root cause of the overflow. If
further	Serviceperson	structural damage, siltation and / or root penetration is believed to have caused the
investigation		blockage
		Request a CCTV assessment of the pipeline to enable accurate pipe failure
		assessment.
		Generate a new child work order for this activity.
Maintenance	Competent	If further reinstatement required create new work order for the task as per
	Serviceperson	Generate child work order process
Closure	Competent	Carry out work order closure procedures as per Reactive Maintenance - Generic
	Serviceperson	Maintenance Procedures

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