



### **Document Owner: Manager Customer Planning**

# **Testing and Reporting Backflow Prevention Devices Procedure**

**Scope/Purpose**: Backflow of contaminated water into drinking water networks is one of the biggest risks to a water supply. It is a potential source of contamination that can seriously affect the quality and safety of our drinking water causing illness or death. It is important that correct boundary devices are installed on all potentially hazardous sites and that they continue to operate reliably through regular testing. Results of the regular testing must be maintained.

## Health & Safety and Operational Information

Hazard Indicators	Personal Protection
Underground services Open pit High pressure Itquid Environmental Biological Confined space Traffic Environmental Services Environmental Services Environmental Services	
Health and Safety Information	<b>Operation's &amp; Maintenance Documentation</b>
<ul> <li>Health and Safety documentation.</li> <li>Generic Traffic Management Plans or site-specific Traffic Management plan.</li> <li>Hazardous Waste</li> <li>Confined Space Entry</li> </ul>	<ul> <li>Corridor Access Requests (CAR) and WIP Permits (site specific or generic/global)</li> <li>Service plans (B4uDig)</li> <li>Design drawings</li> <li>Site plans</li> <li>Notification Calling Cards</li> </ul>
Customer Information (Confidential)	Priority Customer Categories
<ul> <li>Vulnerable customers (DHB supplied list)</li> <li>Priority customers (WWL</li> </ul>	<ul> <li>Schools and Childcare</li> <li>Commercial premises</li> <li>Hospitals</li> <li>Retirement Homes/Villages</li> <li>Correction Facilities</li> <li>Military Installations</li> <li>Oil and Gas Refinery</li> </ul>
Emergency Procedure / Escalation	Additional Documentation
<ul> <li>Make "Site Safe" and isolate risks to people or property with resources at hand</li> <li>In event of service strike to utility/energy source (e.g. fuel, Gas, Power, Water etc.) report immediately to team leader</li> </ul> Escalate if extra resources required or problems occur!	<ul> <li>Specialised equipment needed –</li> <li>Fulton Hogan Work Instruction for Disinfection of Water Systems</li> <li>NZ Backflow Testing Standard 2019 Field Testing of Backflow Prevention Devices and Verification of Air gaps (Water NZ and Master Plumbers)</li> <li>Individual Council Backflow policy</li> </ul>
<ul> <li>Escalate in extra resources required of problems occur:</li> <li>Escalate to Team Leader and inform of the issues faced and/or expected resources required if</li> </ul>	

### Required Skills, Competencies (Qualifications and/or Certifications)

Backflow testing shall be undertaken by a competent person qualified (certified) to test backflow devices (currently NZ Unit standards 23848 and 23847 – see details below)

necessary.





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Standard Operating Procedure		
Required Equip	oment	
Equipment ar	nd Information	Details
Fully Equipped Vehicle		Ensure vehicle, plant, equipment and materials appropriate to the day's work schedule is available.
Specialist Equipment		Testing equipment (with annual calibration certificate) Disinfection equipment
repare to do t	he work	
Action		Action Details
Pre Start Proc	ess	Complete the Daily Pre Start Planned Maintenance.
Compliance		<b>Traffic Management Plan</b> - Where required, TMP to be in place prior to work starting. TMP to be accessible on site.
Customer Notification		Liaise with occupier/owner of premise prior to conducting tests as the testing could affect production and their ability to operate their business.
erform the wo	ork	
Action	Trade	Action Details
Compliance	Certified	Implement TMP if required
14/h + -	Serviceperson	
When to	Certified	Testing (for high and medium risk connections) should occur:
Test	Serviceperson	After installation
		After maintenance and repair
		At intervals not exceeding 12 months
Testing	Certified Serviceperson	<ul><li>Hygiene procedures during this work are important, ensure good work practices are always followed.</li><li>Note - All valves and test cocks should be open and closed slowly to prevent pressure</li></ul>
		spikes or damage to the valves or testing equipment.
		Comment on the security of each installation (i.e. presence of protective cage/integrity of
		protection).
		Confirm direction of flow.
	Certified	Inspect and clean out the strainer unit.
	Serviceperson	Identify test cocks and fit adaptors if required.
		Complete testing dependent on type of device (see appendices in NZ Backflow Testing
		standard).
		Turn water back on to the system – slowly.
Reporting	Certified	Test reports to client to contain details of:
	Serviceperson	Device
		Location and ownership
		Device specific information
		<ul> <li>Detail failed devices and any non-compliances noted with the installation</li> </ul>
		Test certificate – examples provided in Appendix O of the NZ Backflow Testing     Standard
		Copies of reports to be provided to relevant regulatory authority (usually council), water
Retention	Certified	supply authority and Building compliance officer (IQP).
Netention		Tester to retain copy of inspection and test reports
Retention	Serviceperson Certified	Owner / accupier to retain convertisen and test reports
		Owner / occupier to retain copy of inspection and test reports
	Serviceperson Certified	Lindate as required
Close out		Update as required.
	Serviceperson	If the device has failed ensure that procedures are followed to alert the water supplier,
	/ Team Leader	device owner (if different) and ensure that work to repair/replace is scheduled.
		All backflow device details should be maintained in an asset database by water supplier,
		including type, serial number, ownership details, expected hazards on site, date of
	1	installation, commissioning testing and subsequent dates and results of annual testing.