



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

















Health and Safety Information

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

Customer Information (Confidential)

- Vulnerable customers (DHB supplied list)
- Priority customers (WWL

Emergency Procedure / Escalation

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

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.

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

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

Additional Documentation

- Specialised equipment needed -
- Fulton Hogan Work Instruction for Disinfection of Water Systems
- NZ Backflow Testing Standard 2019 Field Testing of Backflow Prevention Devices and Verification of Air gaps (Water NZ and Master Plumbers)
- Individual Council Backflow policy

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)

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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.
Specialist Equipment		Testing equipment (with annual calibration certificate)
Specialist Equipment		Disinfection equipment
Prepare to do the work		s sans all h
Action		Action Details
Pre Start Process		Complete the Daily Pre Start Planned Maintenance.
Compliance		Traffic Management Plan - Where required, TMP to be in place prior to work starting. TMP
Customan Natification		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.
Perform the work		production and their ability to operate their business.
Action	Trade	Action Details
Compliance	Certified	Implement TMP if required
	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	Hygiene procedures during this work are important, ensure good work practices are always
	Serviceperson	followed.
		Note - All valves and test cocks should be open and closed slowly to prevent pressure 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).
Reporting	Certified	Turn water back on to the system – slowly. Test reports to client to contain details of:
Reporting	Serviceperson	Device
	oc. r.cope.so	Location and ownership
		Device specific information
		Detail failed devices and any non-compliances noted with the installation
		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
D-11:	C	supply authority and Building compliance officer (IQP).
Retention	Certified Serviceperson	Tester to retain copy of inspection and test reports
Retention	Certified	Owner / occupier to retain copy of inspection and test reports
	Serviceperson	· · · · · · · · · · · · · · · · · · ·
Close out	Certified	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
		installation, commissioning testing and subsequent dates and results of annual testing.

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