

Document Owner: Manager Customer Planning

Containment Structures - Reservoirs - Planned Maintenance

Planned maintenance procedure for operational maintenance of Reservoirs.

Health & Safety and Operational Information

Hazard Indicators

Personal Protection

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

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

Customer Information (Confidential)

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

Priority Customer Categories

- 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.

Additional Documentation

Required Skills, Competencies (Qualifications and/or Certifications)

Registered Electrician.
 Mechanical Fitter or Welder
 Licenced Operator

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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	Ensure specialist equipment required is available for utilisation.
Specialist Materials & Parts	Ensure you have loaded up all the required parts and materials required to undertake the maintenance work to be completed.
Specialist Services	Engage suitability qualified engineer to undertake condition assessment of Reservoir

Prepare to do the work

Action	Action Details
Pre Start Process	<p>Complete the Daily Pre Start - Planning Reactive Maintenance</p> <ul style="list-style-type: none"> - Include Hazard ID - Include Pre-Start Tailgate Meeting <p>Undertake all tasks required in the Generic Planned Maintenance SOP.</p>
Compliance	Traffic Management Plan - Where required, TMP to be in place prior to work starting. TMP to be accessible on site.

For Reservoirs Only - Perform the work

Action	Trade	Action Details
TMP	Licensed Operator	<p>Implement TMP</p> <p>Amend and update TMP for site conditions if needed.</p>
Inspect	Licensed Operator	<p>Check ASV in Auto and valve position showing fully open.</p> <p>Check sample tap present and in good condition</p> <p>Check security</p> <p>Check ASV panel indicator panel lights are operational.</p> <p>Check distribution air valves.</p> <p>Check emergency stop button.</p> <p>Perform security check.</p> <p>Check condition of vermin screens</p> <p>Verify flow meter.</p> <p>Check integrity water well(s) if present.</p>
Inspect	Licensed Operator	For Reservoirs Only -
Inspect	Registered Electrician	<p>Inspect and test analytical instruments.</p> <p>Inspect and test AC breakers & Isolators</p> <p>Replace Battery (PLC).</p>
Maintenance	Licensed Operator	<p>Clean probes and floats confirm fixing, junction box and cables secure</p> <p>Test probe alarms page to operators and acknowledge</p> <p>Exercise valve. Check paintwork indicates function.</p> <p>Operate Scour valve, check for leakage.</p> <p>Replace pH Probe.</p> <p>Check pressure switch operational.</p> <p>Check and/or replace (<i>where required</i>) Battery (Plc).</p> <p>Service air valve.</p>
Maintenance	Registered Electrician	For Reservoirs Only - Calibrate and verify reservoir transducers.
Inspect	Civil Engineer	- Inspect condition civil structures.
Maintenance	Civil Engineer	Inspect structural condition Water Pipelines Culvert.
Report	Civil Engineer	Report on civil and structural condition of Reservoir