

Document Owner: Manager Customer Planning

Stormwater Penstocks - Planned Maintenance

Planned maintenance procedures for maintenance and testing of Stormwater Penstocks. Stormwater Penstock inspection and maintenance is generally a confined space entry into a sizable chamber or manhole

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.
- Confined Space Entry
- Safety harness
- Working near water
- Rescue tripod
- Number of People
- Working from Heights
- Isolate mechanical rotork mechanism where fitted
- River level or tide level info from daily reports

Operation's & Maintenance Documentation

- Corridor Access Requests (CAR) and WIP Permits (site specific or generic/global)
- Service plans (B4uDig)
- Design drawings
- Site plans
- Rotork operational procedures where fitted

Customer Information (Confidential)

Priority Customer Categories

Emergency Procedure / Escalation

Emergency

- 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)

Competent and trained 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. (Harnesses, Lanyard, Rescue Tripod, Gas Monitor, standby person)
Specialist Materials & Parts	Ensure you have loaded up all the required parts and materials, including lubricants, required to undertake the maintenance work to be completed.

Prepare to do the work

Action	Action Details
Pre Start Process	Complete the Daily Pre Start - Planning Maintenance <ul style="list-style-type: none"> - Include Hazard ID - Include Pre-Start Tailgate Meeting Undertake all tasks required in the Generic Planned Maintenance SOP.
Compliance	Traffic Management Plan - Where required, TMP to be in place prior to work starting. TMP to be accessible on site .If only affected by foot traffic, set up delineator cones and barrier cone bars.
	Second person to act as spotter to keep general public away from open chamber

Perform the work

Action	Trade	Action Details
Maintenance	Competent Person	Check penstock chamber is clear of accumulated material. Check penstock site where practical that upstream intake(s) are clear of materials which could result in a potential blockage or risk to allowing full closure. Ensure downstream spillways are clear and free flowing report any significant restriction or erosion. Create reactive work order for issues, which cannot be rectified during scheduled maintenance. Hand remove, or arrange for suction clean to remove large amounts of debris. Follow Q-Pulse guidelines for 'Digging less than 1.5M deep' Checklist.
Inspect	Competent Person	Check for leaks and ensure all seals are operational.
Maintenance	Competent Person	Remove debris from associated manholes and chambers. Follow Confined Space Entry' policy. Ensure correct categorisation and correct PPE is set up for chamber entry and the use of a calibrated Gas Monitor
Maintenance	Competent Person	Refit and lock all access chamber lids and covers.