



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

### Pump(s) Inspection & Maintenance - Planned Maintenance

Planned maintenance procedures for pump/s inspection/s and maintenance at pump stations.



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

### **Customer Information (Confidential)**

### Corridor Access Requests (CAR) and WIP Permits

- (site specific or generic/global)
- Service plans (B4uDig)
- Design drawings & P&ID's
- Site plans

**Priority Customer Categories** 

**Additional Documentation** 

### **Emergency Procedure / Escalation**

#### Emergency

- Make "Site Safe" and isolate risks to people or property with resources at hand
- Emergency Rescue Plan
- 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.

Required Skills, Competencies (Qualifications and/or Certifications)

Pump Station Operator. Confined Space.





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## Pump(s) Inspection & Maintenance - Planned Maintenance 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.	
	Gas detection	
	Tripod and safety harness	
Specialist Materials & Parts	<b>&amp; Parts</b> Ensure you have loaded up all the required parts and materials 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 Reactive Maintenance	
	- 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.	

### Perform the work @ 4 weeks

Action	Trade	Action Details
Inspect	Pump Station Operator	Connections for Generator Check condition of generator switch and available
		connection
Inspect	Pump Station Operator	Visually check control panel
		Check cabinet for security
		Check panel surface has no damage or corrosion.
		Verify all lighting is operational if not report status
		Verify all extract fans are operational if not report status
		Check for damage and corrosion on cabinet
		Check building or cabinet for Graffiti and arrange for removal if found
		Duty Pump, Duty Pump Selection, <u>if required</u> rotate duty with next pump on
		rotation
		Check that Grundfos control panel operating as designed
		Check pump for abnormal vibration and noise
		Check pump valves and pipework
		Check corrosion and water leakage not present
		Verify pressure gauges read the same as electronic display
		Carry out basic remediation of issues and generate new work order for
		significant works
Inspect	Pump Station Operator	Graffiti on cabinet/ Building
Record	Pump Station Operator	Record pump starts and run hours
		Record pump delivery and suction Pressure
		Record pump present Flow Rate and flow totals

### Perform the work @ 13 weeks

Action	Trade	Action Details
Maintenance	Pump Station Operator	Grease pump if required
		Check condition air release valves
		Check condition of pressure vessels. Verify it is at the correct pressure and
		has no corrosion.
		Verify that the pump alignment with the motor is correct.
		Carry out basic remediation of issues and generate new work order for
		significant works





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# Pump(s) Inspection & Maintenance - Planned Maintenance

Perform the work @ 52 weeks (includes previous schedule(s))

Action	Trade	Action Details
Maintenance	Pump Station Operator	Verify support beams are certified including block and tackle and report if
		not compliant
		Verify that the pumps are securely fixed to the ground
		check condition and operation of reflex valves
		check condition and operation of bellows
		Check condition and operation of valves
		Check condition of pump bearing
		Check condition of coupling guard
		Verify correct pressure for pressure vessel and it is in good condition with no
		signs of corrosion
		Verify pipework condition and its fixings
		Verify all pipework tapping points are in good condition including the small
		auxiliary pipework that is utilised
		Carry out basic remediation of issues and generate new work order for
		significant works
Record	Pump Station Operator	Record pump data Record pump model, manufacture and KW with a picture
		of name plate