



Document Owner: Manager Customer Planning

Wastewater Testing - Planned Maintenance



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.

REPORT If event is expected to have a duration of greater than 4 hours of no service, then escalation to enable alternate supply provisions must be undertaken via Team leader. If there are, either Vulnerable or Priority customers affected by the Water Off / Isolation period, the team leader should be notified of those customers.

Required Skills, Competencies (Qualifications and/or Certifications)

Competent persons only Annual calibration - External service provider

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Wastewater Testing - Planned Maintenance Standard Operating Procedure

| Required Equipment | | | | |
|----------------------------------|--|--|--|--|
| Equipment and Information | Details | | | |
| See Pre- Start Planned | Resource as per Pre Start Planned Maintenance. | | | |
| Maintenance | | | | |
| Specialist equipment | Ensure specialist equipment required is available for utilisation. | | | |
| | Testing equipment | | | |
| | Calibration equipment | | | |
| | Cleaning chemicals | | | |
| | • PPE | | | |
| | Manuals as required for specialist equipment | | | |
| Fully Equipped Vehicle | Ensure vehicle, plant, equipment and materials appropriate to the day's work schedule is | | | |
| | available. | | | |

Prepare to do the work

| Action | Action Details | |
|---------------------------|--|--|
| Pre Start Process 1 | Complete the Daily Pre Start Planning Planned SOP | |
| Pre Start Process 2 | Complete 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. | |
| Shut Down Planned | As required | |
| Utility Requirements | As required | |
| (power off water off etc) | | |
| Notifications | As required | |
| Parts | As required | |
| Equipment | As required MUST ALWAYS BE KEPT CLEAN | |
| Prior to Testing | Remove calibration/storage cap and fit the sensor guard to protect the sensor and membrane while in use. | |
| | Place the probe in the sample and measure; gently agitate to release any air bubbles. | |
| | 2. Allow the readings to stabilize before recording results | |
| List Affected Customers | List affected customers - Identify all addresses affected by network isolation / water shut off | |

Perform the work

| Action | Trade | Action Details |
|----------------|------------------------------|--|
| ТМР | Competent Person | Implement TMP. Review and update as appropriate to suit site conditions. |
| Maintenance | Competent Person | Membrane and electrolyte solution to be changed as per manufacturer's instruction. |
| Maintenance | Competent Person | pH & D.O calibrated at least once a month. Calibrate as per manufacturer's instruction. |
| Maintenance | External service provider | Calibrate the testing instrument on an annual basis. |
| Temperature | Competent Person | Submerge the temperature probe into the sample and wait for the reading to stabilise. Temperature results are typically quick and accurate. |
| Conductivity | Competent Person | Submerge the conductivity probe into the sample and wait for the reading to stabilise. Make sure no air bubbles are trapped in the sensor area. |
| | | If readings are slow to settle, cleaning of the sensor may be necessary to maintain accuracy and increase the responsiveness. |
| рН | Competent Person | Clean the probe with water and dry it with a tissue. Submerge the probe into the sample and stir the probe to homogenise the sample. Wait for the reading to stabilise |
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| Action | Trade | Action Details |
|------------|------------------|--|
| | | pH results normally take a couple of minutes to settle. |
| | | Regular reading with buffers is required to check accuracy. |
| | | If readings are slow to settle, cleaning of the pH probe may be necessary to maintain |
| | | accuracy and increase the responsiveness. |
| Dissolved | Competent Person | This may take several minutes to settle. |
| Oxygen | | If placing the DO sensor into fast flowing waters it is best to place it perpendicular |
| | | to the flow and NOT facing into the flow. |
| | | If using the DO sensor in an aeration tanks or heavily aerated flows make sure that |
| | | the probe base is facing upwards preventing bubbles forming on the membrane |
| | | surface, this may require doubling back the probe and cable tying probe to the |
| | | cable. |
| | | If results have poor repeatability or are slow to settle, replace the membrane and |
| | | solution, also buffing the cathode may be necessary to maintain accuracy and |
| | | increase the responsiveness. |
| On | Competent Person | Remove sensor guard flush the sensor and membrane with water to prevent |
| Completion | | contamination |
| | | DO NOT use deionised water |
| | | Replace calibration/storage cap ensuring the sponge inside is damp to prevent the |
| | | sensor and membrane from being damaged. |
| | | Decontaminate to minimise personal infection or cross contamination of potable |
| | | water supplies. |
| | | |