

## SOP - Sample Collection Waste Water

**DO NOT use this plant\* or complete this task unless you have been inducted in its safe use and operation by an Authorised Experienced Operator**

This SOP may not cover all possible hazards and risks and should be referred to as a control measure in the risk assessment process. Additional training may be required for high risk plant/work. Site and task may change required PPE

### PERSONAL PROTECTIVE EQUIPMENT



Eye protection must be worn



Hand protection must be worn



Foot protection must be worn



High visibility clothing must worn

### POTENTIAL HAZARDS AND RISKS

#### Contamination

Exposure to biological hazards

### PRE-OPERATIONAL SAFETY CHECKS

- ✓ Complete site specific risk assessment
- ✓ Complete the appropriate pre-operational plant checklist if applicable
- ✓ Ensure you are familiar with plant operations and controls

### OPERATING PROCEDURES

- ✓ Decant Sample –
  - After at least five minutes into a decant and standing at the decant channel lower a bucket attached to a rope into the decanting effluent, only catching a small portion in the bucket, rinse and discard the effluent in the bucket (not back into basin). Then lower the bucket back into the effluent to collect a sample for testing
  - Back in the Lab rinse the sample bottle with the effluent sample to be used and then fill the bottle up. Also fill the duplicate bottle with the same sample and freeze it with the lid off
- ✓ MLSS Sample –
  - Once an Aeration tank has been aerating for 10 minutes it has had sufficient mixing in order to determine the MLSS concentration using a portable MLSS meter.
- ✓ Final Effluent Sample –
  - These are to be taken at the nominates EPA sample monitoring points at each Plant, Oil and Grease, Final CL and Final Effluent sample
  - The Final CCL sample plastic container is sealed and must only be opened immediately at the time of sample collection, filled and lid put straight back on to be placed in the refrigerator (this is a composite sample taken over a minimum of 7 hours)
  - Final Effluent sample is to be taken in accordance with the licence requirements & put into the plastic bottle supplied and refrigerated.

A duplicate sample must be taken as well and put in the freezer with the lid off

- Oil and Grease – a glass jar is used for this sample and will be placed in the refrigerator
- Influent Sample – this sample is to be taken during the peak flow in the morning and is refrigerated. A duplicate sample is also required and is frozen with the lid off
- Each sample bottle is numbered and times and dates of collection are to be recorded as required
- ✓ All Bacto samples are to be taken in the containers supplied for that purpose. The sample container should be immersed into the sample so as to avoid any contamination. The lid should be replaced & the sample refrigerated until the sample can be delivered to the Lab. All Bacto samples must be taken to the Lab within 24 hours of sampling

### ENDING OPERATIONS

- ✓ Allow plant to cool before performing any maintenance, refuelling or cleaning
- ✓ Ensure plant is in good working order

### DO NOT

- ✗ Do not use if plant is faulty. Attach an Out of Service tag and report fault to your supervisor
- ✗ Do not leave plant running unattended
- ✗ Do not wear loose jewellery
- ✗ Do not use mobile phone while operating plant

\*Plant in this SOP refers to any machinery, equipment, appliance, container, implement and tool.