

Port Talbot Site Operating Procedure PT-OP-006: Basement Water System

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1.00 PURPOSE AND SCOPE

The purpose of the plant is to receive Effluent from the Pickle Waste Water Tanks located at the Acid Neutralisation Plant. This effluent will contain spent pickle liquor (FCS), solids and some oil from leaks and rain water in the pickle line area. This needs to be treated prior to discharge to the environment

2.00 DEFINITIONS

None

3.00 REFERENCES

Suez Environment Ondeo IS operating procedure for plant

3.01 Supporting Documents

Form 1069 : Raw material log sheet

Form 1070: Daily pH monitoring in Basement Tank System

4.00 PROCEDURE

- 4.01 Effluent is transferred from the Waste Water Tank using Waste Water Pumps P1 and P2. Volume of Effluent (Ferric chloride solution) treated is logged on Form 10XX: Raw material log sheet.
- 4.02 Effluent is received at the Basement Neutralisation Tank, along with liquor from the FCS filter presses
- 4.03 Lime is added to stage 1 of the tank and mixed using an electrical stirrer. This ensures that the pH is in the correct range to allow a polymer to work and also that it is within final discharge limits. Volume of Lime used is logged on Form 1069: Raw material log sheet. pH monitoring is logged on Form 1070: Daily pH monitoring in Basement Tank System
- 4.04 Polymer is added and mixed in stage 2 of the Basement Neutralisation prior to discharge to the Clarifier. The Clarifier allows separation of solids and liquid. Sludge is discharged to the sludge tanks and clean water to the Final Water Tank. Volume of polymer used is logged on Form 1069: Raw material log sheet.

Changes to this issue: First Issue adopted from Ondeo					
Originator	Title	Date	Approvals	Title	Date
 Claire Harling	Environmental Manager	09/06/16	 Mike Porretta	Site Manager	09/06/16
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- 4.05 The Final Water Tank is a final buffer tank before discharge to the next stage of the effluent treatment plant and operates on automatic level control. Volume of final water is logged on Form 1069: Raw material log sheet.
- 4.06 **The internal quality limits for discharge from the Final Water Tank are: pH 6 – 10, oil 600 ppm, solids 2000 ppm.**

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