



Verification	Originator	Approved	Issued
Initials	CS	ST	ST
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TITLE: COFL-GTL-ED-4.4.6-2 MANAGE INFLUENT FLOW DURING HEAVY RAIN TO ENSURE ENVIRONMENTAL COMPLIANCE SOP 0400 (GTL.PL.13.001)

ESMS Standard Operating Procedure

System: Stormwater Management	Procedure No. : SOP 0400
Subsystem: Heavy Rain, High influent Flow	Page No. : Page 1 of 4
Process: Manage influent flow during heavy rain to ensure environmental compliance	Revision No. : 01
	Revision Date : 4/28/15

Purpose:

Manage plant during heavy rain loading to maintain State compliance

Scope:

To implement the best operational practices to reduce, contain or eliminate possible spills of wastewater which may contain solids due to heavy rain event.

Responsibility:

Adherence to these written procedures will be the responsibility of the Regional Chief Wastewater Operator.

Procedure:

1. PURPOSE

1.1 During periods of high influent flow, there may be a need to fill an offline train to maintain capacity and keep the plant solids inventory under control.

2. PREPARATION

2.1 Ensure that a spare settleometer is available

2.2 Determine if the intended Train currently has an liquid within the vessel



3. WARNING STATEMENTS

3.1 *This procedure is for filling a train with (Return Activated Sludge) RAS only, NOT RAW INFLUENT*

3.2 Filling an offline train will begin to affect the turbidity when the train being filled is full and overflowing to the clarifiers downstream.

3.3 25 NTU is the alarm point. **DO NOT EXCEED 25 NTU**

3.4 The maximum time the mixers may be off should not exceed 14 hours. DO NOT EXCEED 14 HOUR TIME LIMIT.

4. OPERATING INSTRUCTIONS

4.1 If Train to be filled is not empty, collect a Settleable Solids sample on train to be filled

4.2 Shut off all mixers on train to be filled

4.3 After 2 hours, examine Settleable Solids sample and write results on Daily Log in the Remarks section. Use the results to determine when to start wasting

4.3.1 If Settled Solids are below 50%, Begin wasting

4.3.1.1 If Settled Solids are above 50%, wait 2 more hours and then begin wasting

4.3.1.2 If there is another train on the same reactor that is currently on line, the RAS valve should be set between 15% and 20% OPEN during the wasting period. If the reactor is offline, the percent open will be need to be determined at that time

4.4 Use the results of the Settleable Solids test to determine length of time that wasting is possible. 14 hours is the absolute maximum time.

4.4.1 Enter the wasting start time on the Daily Log

4.4.2 Monitor the Turbidity reading and observe the affected clarifier battery closely.

4.4.2.1 If the Turbidity exceeds 25 NTU (the Alarm Point) or the clarifiers seriously degrade, STOP Wasting.

4.4.2.2 When complete, make sure the RAS valve is closed, and Mixers are back on.

4.4.2.3 Enter Stop time on Daily Log

4.5 Inform LOX Operator that low DO is probable in the filled train.



4.5.1 On your next round, take a DO sample and a Settleable Solids Sample.

4.5.2 Record DO and Settleable Solids on Daily log.

RECORDS

Record	Where Filed	Responsible Individual	Indexing Method	Minimum Retention Time

REVISION LOG

Revision No.	Revision Date	Description of Change(s)
01	4/27/15	Changed box on first page by adding revision number and date

AUTHORIZATION		
Name	Title	Date
Mary Ann Johnston	ESMS Coordinator	4/28/15