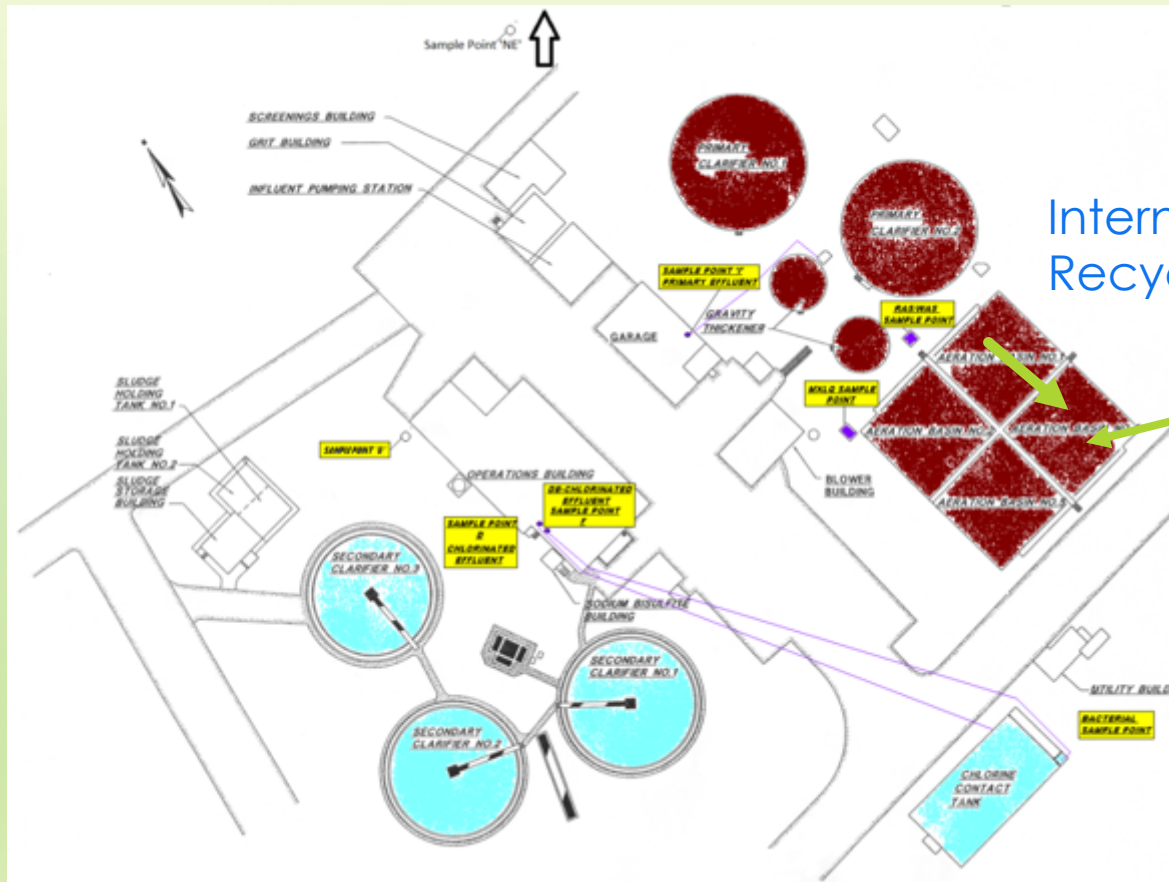




Simplifying Plant Operations

Hampton WRRF

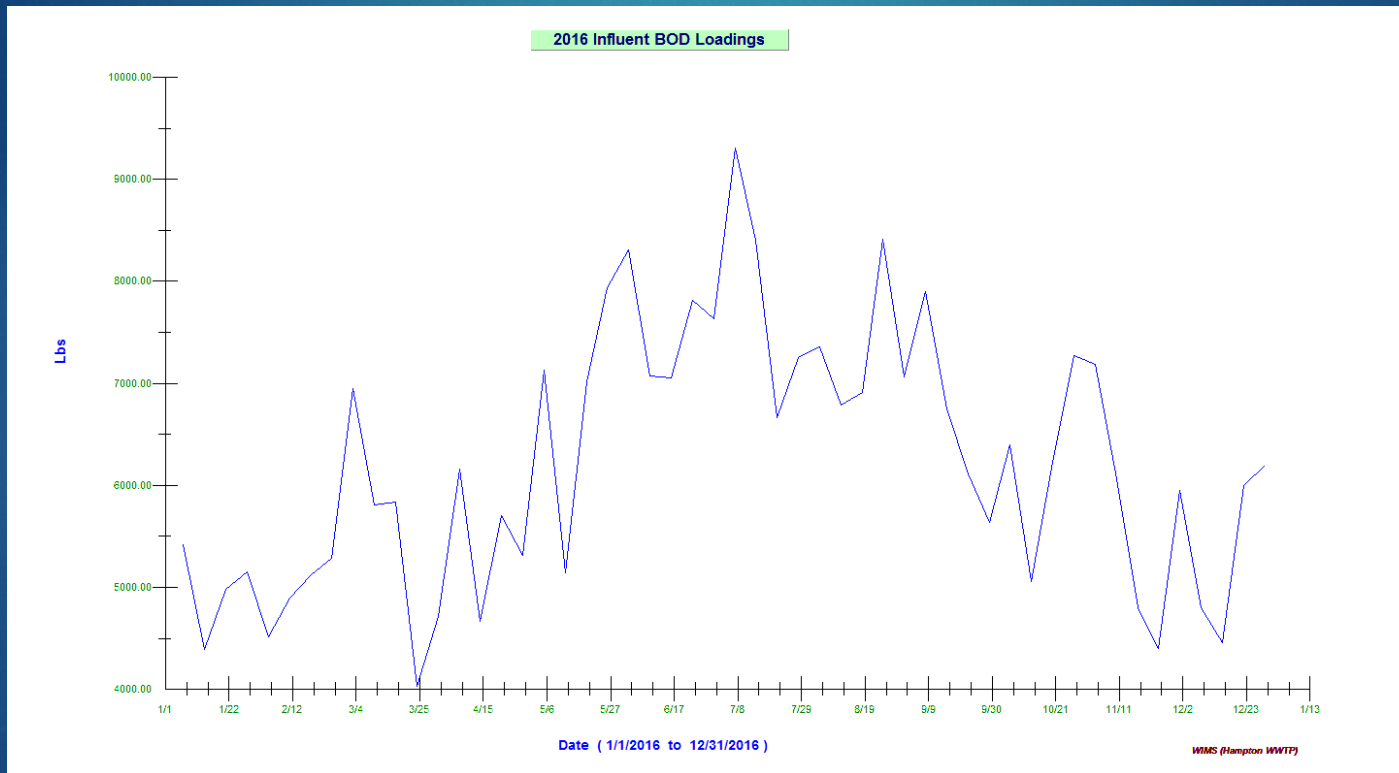


Internal
Recycle

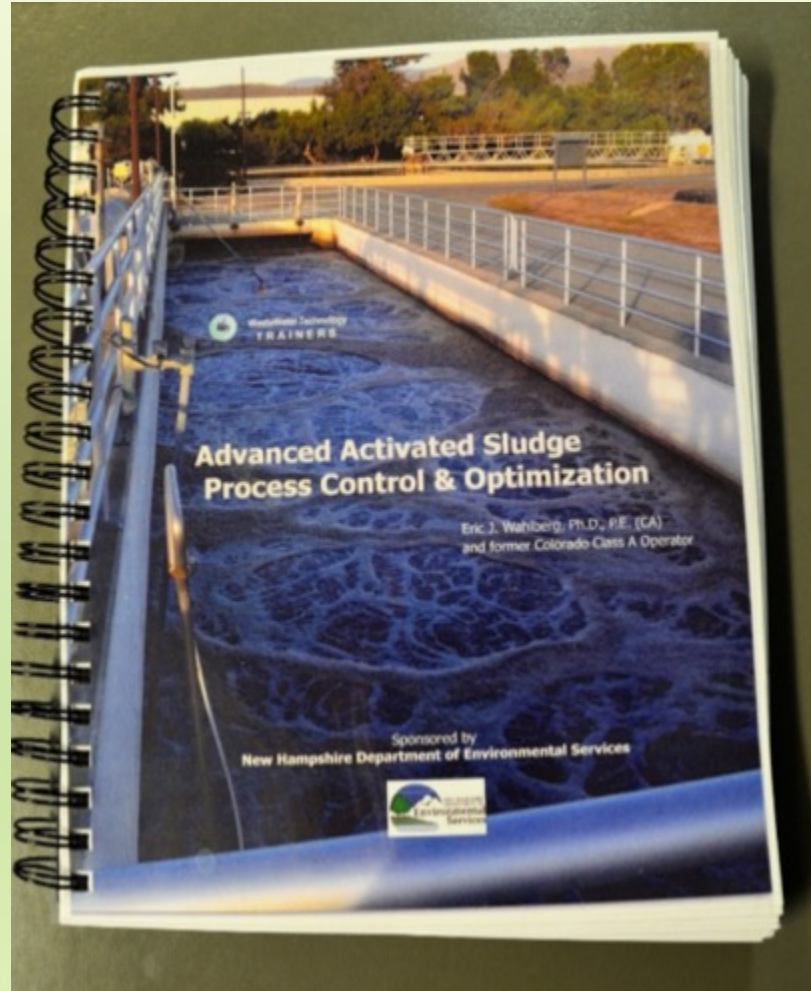
Anoxic
Zone



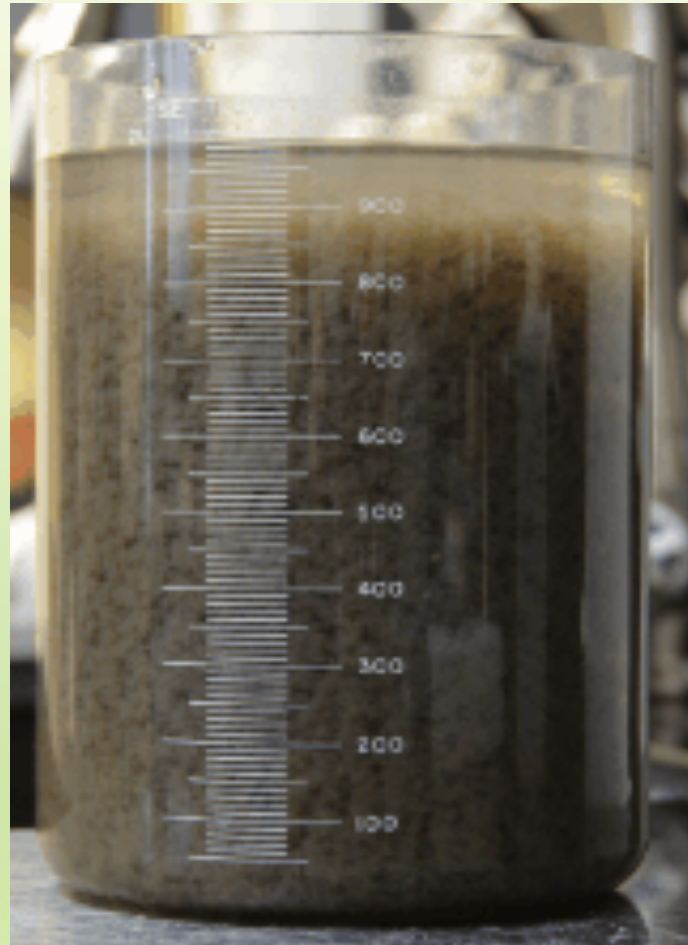
2016 Influent BOD Loadings



Eric Wahlberg



It's all about the settling



WIMS

Hech WIMS Multi User v7.5.4 - SUPER @ "Hampton WWTP" on 172.16.18.0/OPSSQLOPSHAMPTON
File Data Manager Report Pac Graph Pac Design System Setup Preferences Utilities Help
Home Back Refresh Print

Today is: 01/20/17

Hampton WWTP

Data Entry BOD Manager Septage Data
Monthly Operating Report Lab Cal HypoB/Gulfite
Critical Parameters Solids Entry Daily Notes
Monthly Data Entry Data Export Pump Stations

Suggested Thickener Setting (SRT)
Time On: 4.1 Time Off: 3.9

SRT (Days)
Actual: 9.9 Desired: 12.0

Effluent Flow Primary BOD Loadings

State Point

Solids Concentration (g/L)

Flows

MGID

Date

1/20/2017 11:27 AM 0 389 New Messages DMKHF.PHEAAD.AAJUOI.MJFHCJ.MJMLBP.HA Tech Support 800.677.0067 Idle Logout Disabled

Search Windows

SRT Calculations

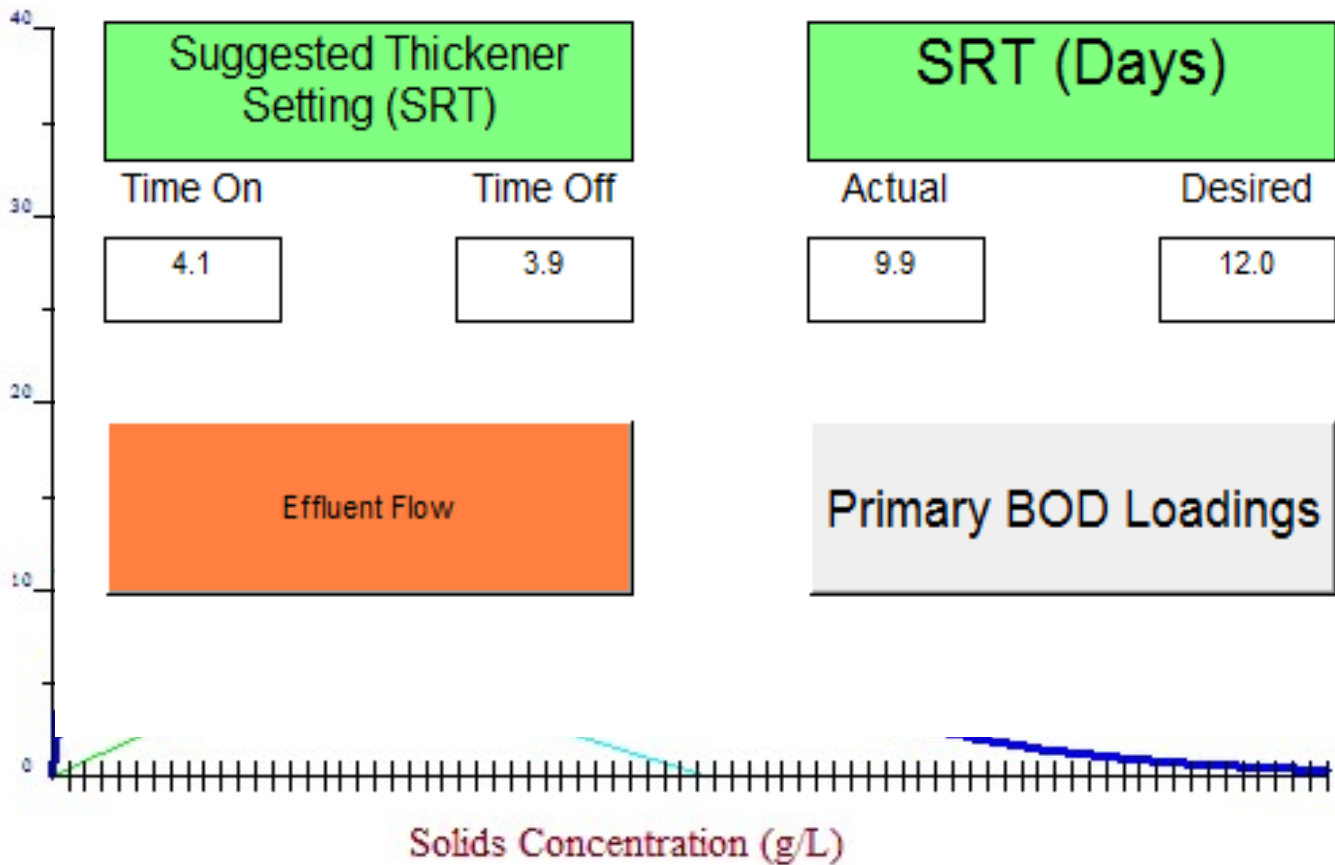
$$SRT = \frac{\text{Pounds under aeration}}{\text{Pounds leaving the system}}$$

$$SRT = \frac{MLSS \text{ mg/L} * \text{Volume under aeration MG} * 8.34}{(\text{WAS SS mg/L} * \text{WAS Flow MGD} * 8.34) + (\text{Effluent SS mg/L} * \text{Flow MGD} * 8.34)}$$

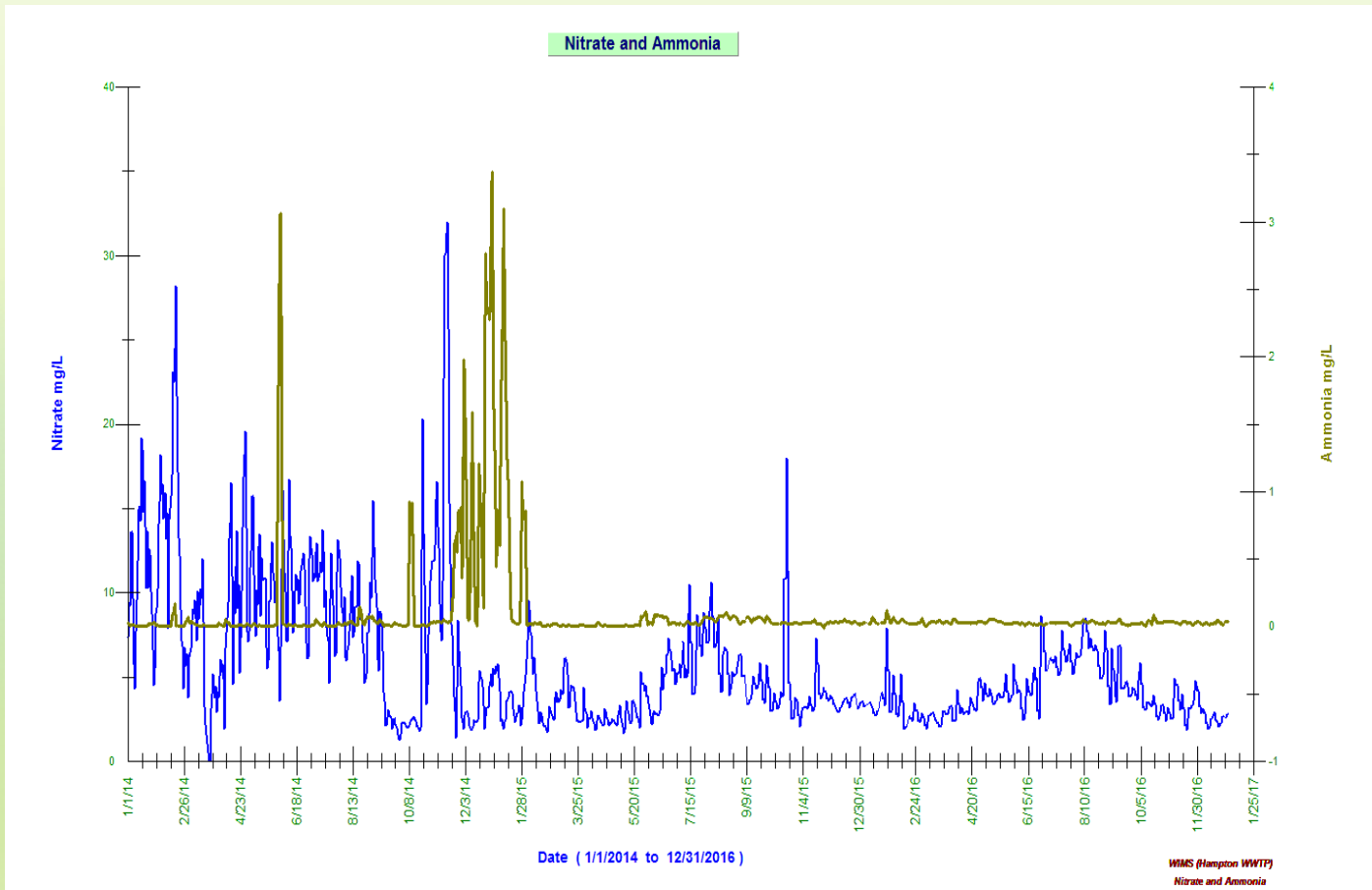
$$\text{Volume to Waste} = \frac{\text{Pounds under aeration}}{\text{Desired SRT} * \text{WAS Concentration} * 8.34}$$

$$\text{How Long to Waste} = (\text{Volume to Waste MG}) / (60 \text{ min}) / (\text{Wasting Rate gph})$$

$$\text{Thickener On cycle} = \text{Wasting time} / 3$$



Nitrate and Ammonia



Happy Bugs



Happy Effluent



Questions

