CUSTOMER: Monroe WWTP
Monroe, WI

ENGINEER: AECOM (WI)

PROJECT DESCRIPTION:

Mix a 130’ diameter EQ tank with an average of 14’ operating depth that contains cheese processing waste.

SPECIAL REQUIREMENTS:

The tank contents must be kept anaerobic with no more than .2 mg/L of D.O. The TSS must be no more than 10% variance between top and bottom measurements. The D.O. and TSS readings must be taken at six different test points.

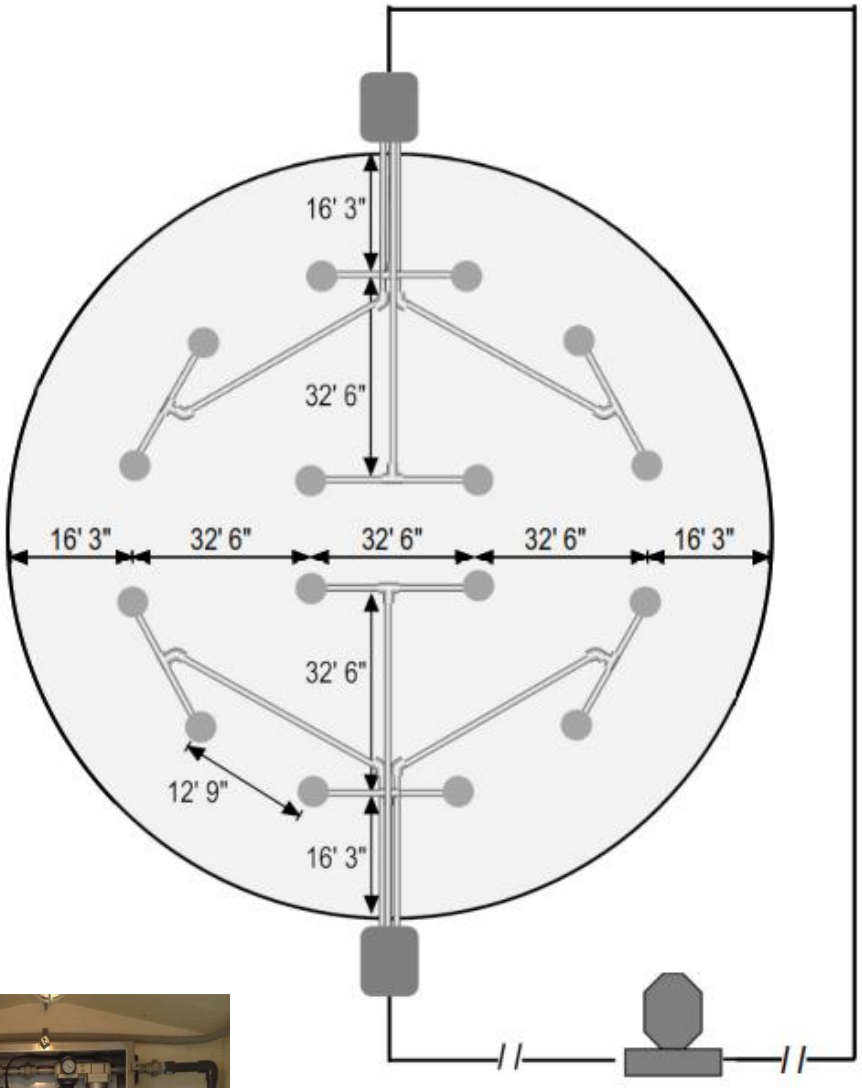
PHI SOLUTION:

PHI provided 16 bubble forming plates located in the tank pursuant to the CFD model. The system included two 4-valve mixers, each with an Allen-Bradley PLC and a rotary screw compressor sized to provide 18 hp of mixing energy.

RESULTS:

PHI took 21 readings of TSS and D.O. at three different levels with the customer’s engineer. Highest D.O. measurement equaled .04 mg/L and largest TSS variance was 2.2%. System performing and accepted as designed.

(See Reverse for Application Drawing)


16' 3"
32' 6"
16' 3"
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32' 6"
32' 6"
16' 3"
32' 6"
12' 9"
16' 3"