## New Philadelphia WWTP Fact Sheet

Average Daily Design Flow (ADDF): 4.5 MGD Actual Flow: 2.95 MGD daily avg Peak Hourly Design Flow (PHDF): 10.5 MGD

Primary Clarifier: (2) 40 Ft. Diameter tanks Volume, gallons: 120,250 each Detention Time Hours: 2.28	Surface Overflow, gpd/sqft @ADDF 1,006 @PHF 2,100	Weir Overflow, gpd/sqft @ADDF 5,694 @PHF 11,881
(1) 60 Ft Diameter tank Volume, gallons: 120,250 each Detention Time Hours: 2.28	Surface Over flow. gpd/sqft @ADDF 1,006 @PHF 2,100	Weir Overflow, gpd/sqft @ADDF 5,694 @PHF 11,881
Aeration Tanks (4) Aeration Tanks Volume, gallons: 318,092 each Four Hoffman Blowers (1 running) deliver air to (462)fine diffusers each tank MLSS concentration: 2020 mg/L		
Final Clarifiers (2) 55 Ft. Diameter tanks St Volume, gallons: 191,267 each Detention Time Hours: 2.63 Feed gpm: @ADDF 877.7 @PHF 1822.9	urface Overflow, gpd/sqft W @ADDF 532 @PHF 1,111	Weir Overflow, gpd/ft @ADDF 7319 @PHF 15,272
0	urface Overflow, gpd/sqft W @ADDF 572 @PHF 1,195	Weir Overflow, gpd/ft @ADDF 5643 @PHF 11,775
Aerobic Digesters Tank Volume Gallons (1) 188,244	Relative Air Requirements	

(3) 131,657 10% Sources are; Primary Sludge from clarifiers 3-5% solids containing 85% volatile solids. Scum from primary clarifiers, secondary waste or activated sludge from both WAS holding tank and thickened sludge which can be piped to the digesters.

30%

Ultraviolet Disinfection:

(2)

(8) modules in two parallel banks

172,056

Each channel is designed for a flow rate up to 5.25 MGD