



HOLLIDAYSBURG, PA

The Hollidaysburg WWTP is designed using a four-basin ICEAS® NIT process. The headworks of this facility consist of screening and grit removal with aerobic digester and belt presses for sludge handling. The effluent from the ICEAS NIT process is disinfected using a UV system. Since placed into operation, the plant has produced effluent BOD and total suspended solids less than 10 mg/l. Effluent ammonia has consistently been less than 1 mg/l.

The Hollidaysburg plant treats municipal wastewater and has been in operation since 1994.

The plant is designed according to the following parameters:

Influent Conditions

Average Dry Flow
Peak Dry Weather Flow
Peak Wet Weather Flow
BOD₅
TSS
Ammonia Nitrogen

Plant Influent

5.0 mgd
11.4 mgd
12.5 mgd
150 mg/l
150 mg/l
20 mg/l

Effluent Conditions

BOD₅
TSS
Ammonia Nitrogen

Monthly Average

20 mg/l
30 mg/l
2.5 mg/l

ICEAS® Process Design Criteria

F:M
SVI
Normal Cycle Time
Storm Cycle Time
Number of ICEAS Basins
Basin Length
Basin Width
Top Water Level
Bottom Water Level

0.1 lb. BOD/lb. MLSS/day
150 ml/gm
6 ea. - 4 hour/cycle/day
8 ea. - 3 hour/cycle/day
4
72 ft.
120 ft.
15 ft.
9.5 ft.

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