CASE STUDY

Wastewater Municipal

Customer:
Charles County, Maryland
Department of Utilities
Mattawoman WWTP

Location:
La Plata, Maryland

Products:
Duperon® FlexRake® FPFS
0.25 inch clear opening
47’ x 4’ 10”
10 degrees from vertical

Debris:
Septage
Rags
Gravel/Grit

Install Date:
October 2010

simplicity in operation and reduced maintenance

The Mattawoman Wastewater Treatment Plant receives normal daily flow of 8.5 MGD—16MGD, varying by the season. Peak flows have the potential to reach 37 MGD in rain events. The sanitary sewer system typically collects biological debris and rags, as well as mixed gravel. Rea Shafer, Plant Superintendent, oversees the operation.

Prior to the installation of the Duperon® FlexRake® FPFS, the Mattawoman WWTP utilized 3/8” climber-style screens. Why switch to the Duperon® FlexRake®? “Our previous screens were out of service more than they were functioning,” Shafer relays. When it was time to consider a new technology, Shafer had a list of requirements.

“We needed a ground-level discharge; our previous screen required a hopper be winched up from the lower level for dumping. We needed continuous cleaning; our previous screen had a single rake on a rotating arm, which gave us slow cleaning cycles.

We wanted flexibility; with the previous screen we would get a bent arm or rake assembly if the rake encountered a large object in the channel, such as a bowling ball or even excessive, built-up grit on the channel floor.

We did not want any submerged, fixed components such as rotating sprockets and bearings. We wanted simplicity in operation and reduced maintenance. Our previous screen required track/rotating component lubrication monthly; there were issues with limit switches and excessive run times that caused alignment problems with subsequent bending if the limit switches malfunctioned. They were prone to doing just that, considering the environment they were in. After seeing the FlexRake® in person, we decided it would fit our needs.”

Since the installation of the Duperon® FlexRake®, these issues have been eliminated. “Like the Energizer Bunny, it just keeps going and going.”

“We are very pleased to have a dependable screening process. We are tickled with its performance,” Shafer concluded.

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The Duperon® FlexRake® provides the Mattawoman WWTP with flexibility to handle all debris types.