

Description of Contemplated Improvements

Delaplain:

Bluegrass Water proposes to install 1) a moving bed biofilm reactor treatment system and 2) solids handling enhancements of a polymer feed and a tertiary filter.

The moving bed biofilm reactor treatment system will improve Delaplain's ability to remove nutrients and lower ammonia levels. The solids handling improvements will improve Delaplain's ability to maintain compliance with environmental and regulatory limits during and after rain events. These services should be maintained through Bluegrass Water's capital because they are necessary for continued compliance and for Bluegrass Water to continue providing reliable service to its customers.

Herrington Haven:

Bluegrass Water proposes to install a 1) moving bed biofilm reactor treatment system; 2) peracetic acid disinfection system; and 3) solids processing (digester) system. The moving bed biofilm reactor treatment system will improve Herrington Haven's ability to remove nutrients and lower ammonia levels. The disinfection system will improve Herrington Haven's ability to comply with applicable regulations by eliminating residual chlorine in the facility's effluent. The digester system will allow the facility to handle more solids without allowing solids to wash out of the facility. These services should be maintained through Bluegrass Water's capital because they are necessary for continued compliance and for Bluegrass Water to continue providing reliable service to its customers.

Persimmon Ridge:

Bluegrass Water proposes to install a moving bed biofilm reactor treatment system. The moving bed biofilm reactor treatment system will improve Persimmon Ridge's ability to remove nutrients and lower ammonia levels. These services should be maintained through Bluegrass Water's capital because they are necessary for continued compliance and for Bluegrass Water to continue providing reliable service to its customers.

Woodland Acres:

Bluegrass Water proposes to install 1) moving bed biofilm reactor treatment system; 2) a peracetic acid disinfection system; and 3) wet weather overflow prevention measures. The moving bed biofilm reactor treatment system will improve Woodland Acres's ability to remove nutrients and lower ammonia levels. The disinfection system will improve Woodland Acres's ability to comply with applicable regulations by eliminating residual chlorine in the facility's effluent. The wet weather overflow prevention measures will improve the facility's ability to handle surge flows by diverting water into a holding tank. These services should be maintained through Bluegrass Water's capital because they are necessary for continued compliance and for Bluegrass Water to continue providing reliable service to its customers.