



State Revolving Fund Loan Program
an Indiana Finance Authority Environmental Program

100 North Senate Avenue, Room 1275
Indianapolis, Indiana 46204
www.srf.in.gov

MEMORANDUM

TO: Official Loan File

FROM: Amanda Rickard

DATE: January 31, 2019

RE: Green Project Reserve (GPR) Business Case
Morristown New Drinking Water Treatment Plant
SRF Project DW 18 10 73 01

Morristown will construct a new drinking water treatment facility with a total rated capacity of 1,000 gpm with aeration, detention, pressure filtration, and disinfection. A standby generator for existing Wells 4, 5, and 6 is also included in the project. The new treatment facility will allow the town to have sufficient treatment capacity to meet their current and future demands.

The new high service pumps will be equipped with VFDs which will allow the pumps to operate proportional to the amount of work required, using less energy and saving wear and tear on the equipment. Compared with constant speed pumping with simple motor starters, use of VFDs will decrease required power usage and save approximately \$5,300 per year. The business case developed by Wessler Engineering was reviewed and found to meet the GPR requirements for the energy efficiency category.

Steel will be used to construct the horizontal pressure filters. Specifications will reflect that all steel contain a maximum post-consumer recycled content of 90 percent. In addition, ductile iron pipe material for the site and process pipe work is considered to be green material. Specifications will reflect that all ductile iron pipe and fittings contain a minimum post-consumer recycled content of 90 percent. The business case for horizontal pressure filter steel and ductile iron pipe developed by Wessler Engineering was reviewed and found to meet the GPR requirements for the environmentally innovative category.

The total GPR cost is \$336,000. Of this, the construction cost based on bids is \$21,000 (energy efficiency components) and \$305,000 (environmentally innovative components). Engineering costs total to \$10,000. Morrilltown closed an SRF loan in the amount of \$3,910,000 on December 10, 2018.