



Legislation Text

File #: Res. 2016-078, **Version:** 1

City Council Meeting Date: August 2, 2016

To: Mayor and City Council
City Administrator

From: David Bennet, PE, Public Works Director/City Engineer
Doug Lien, Utilities Manager
Richard Kucera, Wastewater Plant Foreperson

Consideration to Approve Plans and Specifications and Authorize Advertisement for Bids for the 2016 Wastewater Treatment Plant's Ultra Violet Disinfection Process.

Action Requested:

Staff recommends approval of the Resolution Approving Plans and Specification and Authorizing Advertisement for Bids for the 2016 Wastewater Treatment Plant's Ultra Violet Disinfection Process.

Summary Report:

The Northfield City Council is being asked to approve plans and specifications and authorize advertisements for bids for the 2016 Wastewater Treatment Plant's Ultra Violet Disinfection Process. This improvement has been identified by the Wastewater Treatment Plant (WWTP) Facility Study that was adopted by the City Council on February 16, 2016. Plans and specifications may be viewed on the City's website project page - <http://ci.northfield.mn.us/index.aspx?NID=1072>

The existing UV system requires on-going maintenance, and the manufacturer has indicated they will stop providing support to this model within the next year. It is recommended that the existing UV equipment be replaced during the non-disinfection period of the UV process. Within the City of Northfield's permit from the Minnesota Pollution Control Agency, the non-disinfection period takes place from November 1 through March 31 of every year.

During the non-disinfection period, the WWTP Facility Study indicated the replacement of the UV system would include the removal of the existing units, modifications of the channel to accommodate the new units, and installation of the new UV units and power supplies. In addition, upgrades would be made to the SCADA system to accommodate system monitoring.

Alternative Options:

The City Council could decide not to go forward with the preparation of plans and specifications, which staff does not recommend because this would put off the replacement of the UV disinfection system for another year.

Financial Impacts:

The project budget for the UV Equipment Replacement Project is \$893,750. We are in the process of selling bonds to finance the project. The sale was authorized on July 19th, and the bonds will come back to the council

on August 16th. The project is currently estimated 6% below the project budget, as summarized below.

UV Equipment Replacement - Estimated Cost	
New UV Equipment:	\$320,000
Installation of Equipment:	\$75,000
Other Construction Costs:	\$177,800
Subtotal	\$572,800
Contingencies and Overhead:	\$120,288
SCADA	\$28,000
Engineering	\$116,154
Total Project Cost	\$837,242

The engineers project cost summary is attached.

Tentative Timelines:

See Project Process.