



CWSRF Projects C2-5201-25-70 & 25-00
New York City Municipal Water Finance Authority
New York County
NYCDEP Wards Island WPCP –
Contracts 79A E, G & H (Primary Sludge Handling Equipment)

Type of Financing: Short-Term Interest-Free and American Recovery and Reinvestment Act (ARRA) Funds

Estimated Amount to be Financed: \$15,704,400

EPA Approved Green Project Reserve: \$1,827,361

Estimated ARRA Principal Forgiveness: \$15,704,400

Estimated Principal of Long-Term Financing: NA

Other Funding Sources: None

Prior CWSRF Recipient: Yes (X) No ()

Hardship Determination: Yes () No (X)

Project Description:

This action consists of providing short-term financing for the construction costs associated with the replacement of all fifteen primary sludge pumps, all ten primary settling tank sluice gates and collector drives, and all of the grit removal equipment on the site of the Wards Island WPCP. This Project is defined in the July 2009 Engineering Report entitled “WP-103 Wards Island WPCP, Plant Stabilization 4, Contract WI-79A, Primary Sludge Treatment Improvements, Basis of Design Report”, and in the Plans and Specifications for Contracts WI-79A E, G & H. The Engineering Report was approved and made eligible by the NYSEFC on August 14, 2009. The Plans and Specifications are approvable pending receipt of the final bid set.

Project Summary:

This project is part of the NYCDEP’s upgrade and rehabilitation program for the Wards Island Water Pollution Control Plant, which serves densely populated areas of eastern Manhattan and the western Bronx with an average dry weather flow capacity of 275 MGD. This project work includes the installation of slightly larger 60 HP motors for the fifteen new sludge pumps and the replacement of all of the primary sludge piping inside the five primary sludge pump stations, along with the discharge piping for each pump station that eventually connects with the existing header piping for the grit removal system. All three of the grit removal classifiers will be replaced, and the two existing cyclone degritters that discharge into each of the grit classifiers will be replaced with three cyclone degritters along with all of the associated sludge piping for a total of nine new cyclone degritters.

Green Project Reserve (GPR) funding will enable to City to provide modifications at Wards Island Water Pollution Control Plant to their Primary Sludge Collection System to make the system more energy efficient including; belt drives and sheaves for enhanced pump speed control, adding three new grit classifiers to allow for greater flexibility in operations to run only the horsepower needed, utilizing premium efficiency motors on the degritting facility air fans, providing light fixtures with CFL lights and replacing all motors with premium efficiency motors. These proposed improvements have been approved by the U.S. Environmental Protection Agency as eligible GPR infrastructure.

Financing Summary:

Total project costs will be funded with CWSRF short-term interest-free financing, a Green Project Reserve grant, and upon satisfactory completion will be principally forgiven and any ineligible portion will be either converted to CWSRF long-term leveraged financing or repaid. Project costs have not been pre-financed by any other source.

SEQR Findings:

The Corporation has determined that the proposed action will finance a project which constitutes "maintenance or repair involving no substantial changes in an existing structure or facility," and/or the "replacement, rehabilitation or reconstruction of a structure or facility, in kind." which are "Type II" actions under SEQRA, pursuant to 6 NYCRR Sections 617.5(c) (1) and (2).

Construction Schedule:

<u>Description</u>	<u>Construction Start</u>	<u>Construction Completion</u>
Contract 79AE - Electrical	January 1, 2010 (T)	February 29, 2012 (T)
Contract 79AG - Structures & Equipment	January 1, 2010 (T)	February 29, 2012 (T)
Contract 79AH - HVAC	January 1, 2010 (T)	February 29, 2012 (T)