



**CWSRF Projects C4-5415-02-70 & 02-00**  
**City of Hudson**  
**Columbia County**  
**Wastewater Treatment Plant & Pump Station Improvements**

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

**Estimated Amount to be Financed:** \$11,409,393      **EPA Approved Green Project Reserve:** \$3,278,663

**Estimated ARRA Principal Forgiveness:** \$6,072,567

**Estimated Principal of Long-Term Financing:** \$5,336,826

	(Amount)	(Source & Type)
<b>Other Funding Sources:</b>	\$221,043	DEC Water Quality Improvement Project Grant
	\$600,000	Office of Community Renewal Grant

**Prior CWSRF Recipient:** Yes (X) No ( )

**Hardship Determination:** Yes (X) No ( )

**Project Description:**

This action consists of financing costs associated with the planning, design, and construction of improvements to the City of Hudson Wastewater Treatment Plant and South Front Street Pump Station system to implement the City's Long Term Control Plan for Combined Sewer Overflows. The scope of the project is defined in the engineering report entitled "City of Hudson, Columbia County, New York; Wastewater Treatment Plant Improvements Facility Plan" dated March 2009 that was approved by the NYS Department of Environmental Conservation on April 13, 2009. This report was supplemented to add Green Project Reserve features by the engineering report amendment entitled "City of Hudson, Columbia County, New York; Wastewater Treatment Plant Improvements, Amendment to Facility Plan Dated March 2009" dated November 17, 2009 that was determined eligible by the NYS Environmental Facilities Corporation on November 30, 2009.

**Project Summary:**

The City of Hudson's State Pollutant Discharge Elimination System (SPDES) permit requires development of a Long Term Control Plan (LTCP) for its Combined Sewer Overflow (CSO) discharges. Delays in completing the LTCP resulted in the issuance of an Order on Consent (DEC File No. R4-2007-0103-4) by the NYSDEC on May 3, 2007, and was modified on September 16, 2008, requiring the completion and implementation of the LTCP. The proposed project will provide improvements at the wastewater treatment plant and South Front Street Pump Station system to convey a minimum of 85% of the wet weather flow to the plant, provide primary treatment and disinfection of all flows up to 16.9 million gallons per day (mgd), and provide secondary treatment, disinfection, and solids handling for flows up to 6.0 mgd. The plant has a 30 day average flow limit of 2.8 mgd. Improvements include replacement of the pump station influent sewer, pumps, and forcemain to increase flow capacity; replacement of the treatment plant influent piping, influent screening, grit removal system, secondary treatment influent pumps, and disinfection system to increase flow capacity; replacement of clarifier mechanical equipment; and replacement of existing mechanical aerators and sludge floatation thickeners with more energy efficient systems.

Green Project Reserve (GPR) funding will enable the City to make energy efficient improvements that include the pumping system at the South Street Pump Station, and the wastewater treatment plant's influent screening system, biological treatment aeration system, plant wastewater and sludge pumping systems, sludge thickening system, and plant interior lighting. A non-potable plant water system will also be installed to promote water efficiency by allowing the use of plant effluent water, rather than potable water, for the sludge dewatering belt press wash water. These proposed improvements have been approved by the U.S. Environmental Protection Agency as eligible GPR infrastructure under the American Recovery and Reinvestment Act of 2009.

**Financing Summary:**

Total project costs of \$12,230,436 will be funded with a combination of CWSRF short-term interest-free financing, principal forgiveness, a Green Project Reserve grant, a \$221,043 DEC Water Quality Improvement Project Grant, and a \$600,000 Office of Community Renewal Grant. The Town plans to convert to SRF long-term interest-free financing in 2012.

**SEQR Findings:**

The Corporation has determined that the proposed action will finance a project which constitutes "a particular course of action specifically required to be undertaken pursuant to a judgment or order" which is a "Type II" action under SEQR, pursuant to 6 NYCRR 617.5(c)(29).

**Construction Schedule:**

<u>Description</u>	<u>Construction Start</u>	<u>Construction Completion</u>
WWTP & PS Improvements	February 2010 (T)	December 2012 (T)