



**CWSRF Projects C1-7370-02-70 & 02-00**  
**Incorporated Village of Patchogue**  
**Suffolk County**  
**Wastewater Treatment Facility Upgrade and Expansion (BNR/UV)**

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

**Estimated Amount to be Financed:** \$9,668,812      **EPA Approved Green Project Reserve:** \$5,119,590

**Estimated ARRA Principal Forgiveness:** \$5,439,441

**Estimated Principal of Long-Term Financing:** \$4,229,371

	(Amount)	(Source & Type)
<b>Other Funding Sources:</b>	\$1,164,496	CW/CA Bond Act Grant
	\$ 573,000	Environmental Protection Fund Grant

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

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

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**Project Description:**

This action consists of providing short-term financing for the costs associated with the planning, design and construction of upgrades and expansion to the Village of Patchogue WPCP. These include Biological Nitrogen Removal (BNR), Ultraviolet (UV) disinfection upgrade and other improvements to the wastewater treatment facility. These upgrades and improvements are detailed in the *Facility Plan – Upgrade & Expansion, Wastewater Treatment Facility*, dated May 2007 that was approved and made eligible by NYSEFC on March 26, 2008 as well as the *Facility Plan Addendum*, dated February 27, 2009, that was approved by NYSEFC on June 16, 2009. The Village has submitted an addendum to the facility plan to address additional energy efficiency measures recommended by the NYSERDA. The measures that will be funded with Green Project Reserve have been addressed in Addendum #3 to the Facility Plan dated October 29, 2009 that was determined eligible by NYS Environmental Facility Corporation on December 1, 2009.

**Project Summary:**

The Village of Patchogue wastewater treatment facility was first constructed in 1926. Upgrades were undertaken around 1950 and again in 1987. The facility operates under State Pollution Discharge Elimination System (SPDES) Permit No. NY 0023922 with a permitted capacity 0.5 million gallons per day (MGD). The proposed improvements will increase the capacity of the facility in order to achieve goals set in the November 1999 *Patchogue River Maritime Center Plan* to revitalize the riverfront by reducing non-point source loadings as well as to bring the WPCP into compliance with the *South Shore Estuary Reserve Comprehensive Management Plan*.

Green Project Reserve (GPR) funding will enable the Village sewer district to make improvements to the facility's headworks, install biological nitrogen removal (BNR) through the use of energy efficient STM-Aerotor technology, upgrade the facility's disinfection capability with an ultraviolet light disinfection system to comply with residual chlorine limits, and improve and upgrade the facility's sludge handling and storage system with the installation of an Membrane Sludge Thickening process. Additional energy efficiency measures have been added to the approved design to include LED exit signs, high performance lighting and motion sensors on light switches. 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:**

The CWSRF \$12,081,540 financing for projects C1-7370-02-00 and C1-7370-02-70 will be a combination of short-term interest-free financing, short-term market rate financing, principal forgiveness and a Green Project Reserve grant. The Village plans to convert to SRF long-term financing in 2011 to complete the funding plan for total project costs of \$11,406,308, offset in part a CW/CA Bond Act Grant in the amount of \$1,164,496 and an Environmental Protection Fund (EPF) Grant in the amount of \$573,000. The Village plans to convert to SRF long-term financing in 2011.

**SEQR Findings:**

The Corporation has determined that this action will finance the construction of a project that will not have a significant effect on the environment: (1) DEC has certified that this project is in compliance with SERP; (2) no potentially large impacts have been identified; and (3) the Village of Patchogue, acting as lead agency, has determined that the project will not have a significant effect on the environment.

**Construction Schedule:**

<u>Description</u>	<u>Construction Start</u>	<u>Construction Completion</u>
WWTP Upgrade (UV & Ammonia)	January 4, 2010 (T)	June 27, 2011 (T)