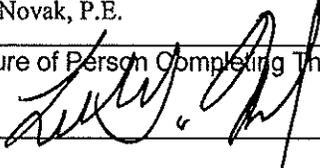


State of Wisconsin
 Department of Natural Resources
 Bureau of Community Financial Assistance - CF/2
 S. Webster St., P.O. Box 7921
 Madison, WI 53707-7921
 Phone No. (608) 266-7555, FAX (608) 267-0496

Environmental Improvement Fund (EIF)
 Green Project Reserve (GPR)
 Addendum to Financial Assistance Application
 Page 1 of 5 - August 2010

Applicants must complete and submit this form for each Clean Water Fund Program (CWFP) and Safe Drinking Water Loan Program (SDWLP) project for which they submit a Financial Assistance Application.

Municipality Village of Wrightstown	<input type="checkbox"/> CWFP <input checked="" type="checkbox"/> SDWLP	EIF Project No. 4942-03
Does this project include any "green" elements as described below? <input checked="" type="checkbox"/> YES (If yes, complete and return page 1 and appropriate page(s) with green category information) <input type="checkbox"/> NO (If no, complete and return only page 1)		
Name and Title of Person Completing This Form (Type or Print) Lee G. Novak, P.E.	Phone No. 920-662-9641	Email Address lnovak@relecinc.com
Signature of Person Completing This Form 		Date Signed 6/27/12

Green projects fall into four separate categories: green infrastructure, water efficiency, energy efficiency, and environmentally innovative projects. Please read the definitions below and refer to the guidance document **Green Project Reserve: Guidance for Determining Project Eligibility**, dated April 21, 2010, (available on the web at <http://dnr.wi.gov/org/caer/cfa/EL/Section/news.html>). This document explains the types of projects eligible for funding under the Green Project Reserve and details which types of projects are considered categorically eligible and which types of projects require a business case. **Applicants must submit all required business cases prior to loan closing.** DNR is required to post the business cases on the web.

When completing this form, include only those costs you intend to request from the Environmental Improvement Fund.

SUMMARY OF GREEN PROJECT RESERVE COSTS

GREEN CATEGORY	EIF-FUNDED GREEN PROJECT COSTS
Green Infrastructure	\$
Water Efficiency	\$677,070
Energy Efficiency	\$677,070
Environmentally Innovative	\$
TOTAL	\$1,354,140

FOR DNR USE ONLY

Signature of GPR Specialist 	Date Review Completed 3/20/13
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Water Efficiency definition: Water Efficiency projects include the use of improved technologies and practices to deliver equal or better services with less water. Water Efficiency encompasses conservation and reuse efforts, as well as water loss reduction and prevention, to protect water resources for the future.

This project is categorically a Water Efficiency project X

Indicate Categorical Project number from *GPR: Guidance for Determining Project Eligibility* and estimated cost (i.e. 2.2-2 for \$35,000):

Categorical Project Number: Sect. 2.2-9 Estimated Cost: \$ 677,070

Categorical Project Number: _____ Estimated Cost: \$ _____

Other: _____ Estimated Cost: \$ _____

Or

This project requires a business case X

Indicate Business Case Project number from *GPR: Guidance for Determining Project Eligibility* and estimated cost (i.e. 2.5-3 for \$50,000):

Business Case Project Number: 2.5-2 Estimated Cost: \$ 677,070

Business Case Project Number: _____ Estimated Cost: \$ _____

Other: _____ Estimated Cost: \$ _____

The **TOTAL** estimated cost of this Water Efficiency project or project components \$ 677,070

Please provide a **detailed** description of your Water Efficiency project or project components below. Please include any pertinent calculations of water savings in both gallons and percentage of overall water usage. Attach a separate sheet if necessary.

This project involves the replacement of old 2-inch and 6-inch diameter water mains. Water efficiency will be increased because losses will be decreased or eliminated. Water losses can be attributed to either slow water leaks or water main breaks.

It was conservatively estimated that if a slow leak was occurring at 1 gallon per minutes (GPM) over the course of a year, that 525, 600 gallons would be lost. The areas of replacement for this project was estimated to have approximately four slow leaks because the water main is old and past its useful life. If all but one of the leaks was fixed with this water main replacement project, the reduction would be 1,576,800 gallons pumped per year.

Description does not state this project is the result of a leak detection study which adhered to standard industry practices (see GPR guidance under 2.2-9 & 2.2-5b). Can still count under 2.5-2 which requires a business case. Description given can be considered acceptable for the business case.

Energy Efficiency definition: Energy Efficiency projects include the use of improved technologies and practices to reduce the energy consumption of water quality projects, use energy in a more efficient way, and/or produce/utilize renewable energy.

This project is categorically an Energy Efficiency project

Indicate Categorical Project number from *GPR: Guidance for Determining Project Eligibility* and estimated cost (i.e. 3.2-3 for \$175,000):

Categorical Project Number: Sect. 3.2-2 Estimated Cost: \$ 677,070

Categorical Project Number: Estimated Cost: \$

Other: Estimated Cost: \$

Or

This project requires a business case X

Indicate Business Case Project number from *GPR: Guidance for Determining Project Eligibility* and estimated cost (i.e. 3.5-1 for \$23,000):

Business Case Project Number: 3.5-1 Estimated Cost: \$ 677,070
3.5-3

Business Case Project Number: Estimated Cost: \$

Other: Estimated Cost: \$

The **TOTAL** estimated cost of this Energy Efficiency project or project components \$ 677,070

Please provide a **detailed** description of your Energy Efficiency project or project components below. Please include any pertinent calculations of energy savings in both kilowatt hours and percentage of overall energy usage. Attach a separate sheet if necessary.

Energy Efficiency - Energy Efficiency is defined as including capital improvements that reduce the energy consumption of eligible drinking water infrastructure projects. The total amount listed was computed by estimating about half of the water main construction costs. The old, existing 2-inch and 6-inch diameter water main will be replaced with new 8-inch and 12-inch diameter pipe. New water main will be constructed to close loops and better network the distribution system. Using a very conservative estimate of 100 gpm, the estimation of reduced headlosses through the 8-inch diameter piping will be 8 psi. For example, 100 gpm flowing through a 2-inch pipe has a headloss of 17.5 feet/100 feet. In an 8-inch pipe, the headloss is under 0.035 feet/100 feet. Reducing the 8 psi headloss, the pump should move on its curve and be more efficient, from 79% to 82% on the efficiency curve. Based on the average day pumpage of 180,000 gallons, an estimated savings of 14,700 kW-Hr per year was calculated. The well pump will have a Variable Frequency Drive (VFD) to further adjust and optimize the pump efficiency. The VFD will provide the top efficiency for pumping, to maximum the pump curve at all operating points.

3.2-2 is planning & assessments or audits rather than the capital project. Project fits better under 3.5-1 & 3.5-3 which require a business case. Description given can be considered acceptable for the business case.