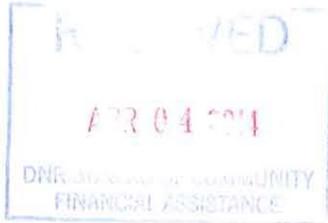
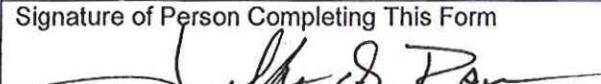


State of Wisconsin
 Department of Natural Resources
 Bureau of Community Financial Assistance - CF/2
 101 S. Webster St., P.O. Box 7921
 Madison, WI 53707-7921
 Phone No. (608) 266-7555, FAX (608) 267-0496



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 Town of Salem	<input checked="" type="checkbox"/> CWFP <input type="checkbox"/> SDWLP	EIF Project No. 4049-19
Does this project include any "green" elements as described below? <input checked="" type="checkbox"/> YES (If yes, complete and return page 1 <u>and</u> 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) Jeffrey S. Rau, P.E.	Phone No. 608-251-4843	Email Address jeffrey.rau@strand.com
Signature of Person Completing This Form 		Date Signed 3/3/14

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	\$
Energy Efficiency	\$ 295,015
Environmentally Innovative	\$
TOTAL	\$ 295,015

FOR DNR USE ONLY

Signature of GPR Specialist 	Date Review Completed 4/25/14
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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: 3.2-2 Estimated Cost: \$ ~~424,250~~ ***260,000**
 Categorical Project Number: _____ Estimated Cost: \$ _____
 Other: _____ Estimated Cost: \$ _____

Or

This project requires a business case ____

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: 3.5-9 Estimated Cost: \$ ~~132,000~~ ***64,175**
 Business Case Project Number: _____ Estimated Cost: \$ _____
 Other: _____ Estimated Cost: \$ _____

The **TOTAL** estimated cost of this Energy Efficiency project or project components \$ ~~556,250~~

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.

Aeration Blowers and Equipment \$424,000	Variable Frequency Drives
Existing = 596,000 kWh/Yr	Sludge Pumps = 3 x \$7,500
Proposed = 215,600 kWh/Yr	Blowers = 3 x \$30,000
	Grit Blower = \$7,500
	Mixers = 4 x \$3,000
Reduction = 64%	Total = \$132,000

***260,000**
64,175
***324,175**
-29,160 Focus on E grant
***295,015**

Salem WWTP Upgrades - Green Project Reserve Costs

Aeration Equipment	Cost from Contractor
Activated Sludge Blowers	\$ 180,000
Fine Bubble Diffusers	\$ 80,000
Total	\$ 260,000

Variable Frequency Drives	Total Number	Number Operating	Cost (total)	Horsepower	Operating Speed ¹	Annual Run Time ¹ (hr/yr)	Annual Savings (kW)
Activated Sludge Blower Drives ²	3	1	\$ 40,200	100	56%	8760	288,990
Primary Sludge Pump Drives	2	1	\$ 4,750	10	50%	1825	6,807
RAS Pump Drives ²	3	2	\$ 6,045	7.5	68%	8760	31,368
Grit Blower Drive	1	1	\$ 2,980	15	86%	8760	13,723
Mixer Drives	4	4	\$ 6,200	2.5	80%	8760	13,070
Chemical Feed Pump Drives	2	1	\$ 4,000	0.5	50%	8760	1,634
Total			\$ 64,175				353,959

Biological Phosphorus Removal Equipment ³	Cost from Contractor
Baffle Walls	\$ 17,000
Mixing Equipment	\$ 109,000
Total	\$ 126,000

Notes:

¹Operating speed and annual run time are approximate and will depend on plant flows/loadings.

²Operating speed is not constant and will vary throughout the day based on demand.

³Conversion to biological phosphorus removal could result in up to a \$32,000 savings in ferric sulfate chemical addition per year. Conversion to biological phosphorus removal was discussed in detail in the *Town of Salem Utility District Master Plan*.

Not included.