

## Green Project Checklist<sup>1</sup>

Project Name: Pocono Twp Sewer System – Phase III

Applicant: Pocono Township

County: Monroe

Project Number: 45036031008-CS

DEP RO Reviewer: James Ridgik

Date:

I. (RO) If the project is *not* Green (See the attached EPA April 21, 2010 guidance) check here. ( ) The review is complete.

II. (RO) Is the project *categorically* Green (See the attached EPA April 21, 2010 guidance)?

Yes                  No X

Explain (if yes, include reference to a section in the guidance) and proceed to “IV” below:

III. (RO) If the project is green, but not categorically green, it must have a Business Case to be approved.

A Business Case is a brief report which briefly describes what the project is and why it is green. All Business Cases must show that the project has identifiable and substantial benefits. Those benefits must be quantified (in terms of water, energy and dollars whenever possible). All projects must be cost-effective.

Describe the Green scope of the project: Subsurface Infiltration Systems on Pump Stations 3 & 5 sites. Rooftop Disconnection for Pump Stations 4 & 5 sites. Vegetative Strip/Filter on Pump Station 4 Site.

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<sup>1</sup> Based on EPA April 21, 2010 Guidance

Energy Efficiency: An aeration system with a solid state controller/timer system for the 100,000 gallon equalization tank at Pump Station 5.  
Variable Frequency Drives (VFDs) for sewage pumps at Pump Stations 3,4, and 5.

Summarize the basis of the Green determination in the Business Case:  
Hess Associates 10/04/2010 Memo showed that, for the 3 Pump Stations, VFDs Pump Operation would use 698,567 KWH/year versus 888,622 KWH/year for Conventional Pump Operation. Savings of 21.4% in electrical use.

List documented water, energy and cost savings:  
At a power supply cost of \$0.10/KWH, the energy cost savings would be \$ 19,006 when VFD Pumps are used at the 3 Pumping Stations.

Is the Business Case approvable?

Yes  X  
No

Explain: The energy reduction for the 3 Pumping Stations is greater than 20%.

Attach the business case.  
Refer to Hess Associates 10/04/2010 e-mail.

#### IV: (RO) Category and Dollars

What is the predominant green category?

Water Efficiency ( )  
Energy Efficiency (X )  
Green Infrastructure ( )  
Environmentally Innovative ( )

What is your estimate of the cost of the green components? \$ 7.2 Million which includes the total cost for the 3 pumping stations.

III. (CO) Provide an electronic copy of the Business Case to PennVest (for entry to the website).

Done (X)  
N/A ( )

#### IV. (CO) Priority List Followup:

If the above confirms that the project is Green, ensure that the priority list shows:

1. The project is approved as Green
2. Which Green category (Water Efficiency, Energy Efficiency, Green Infrastructure, or Environmental Innovative)
3. Whether or not the project is “Categorical” Green
4. Eligible Green dollars