

**Drinking Water Revolving Fund
American Recovery and Reinvestment Act (ARRA)
Green Reserve Qualification Template**

Applicant: _____ Project No: _____
Project Name: _____

Identify by page number from the project plan, or attach excerpts, where water efficiency or energy efficiency improvement justification is provided or discussed to support the need for the recommended green reserve project component: Pages _____.

Please ensure all requested information, in one or more of the 3 sections below, is provided to enable an assessment by the Michigan Department of Environmental Quality (MDEQ)/United States Environmental Protection Agency (USEPA) of whether the project or project component can qualify for funding from the green reserve established/required in the ARRA.

Installation of a Remote Read Water Meter System

1. System water loss is currently _____ gallons per year and _____ percent of total water produced. The expected reduction in water loss as the result of installing a remote read system is _____ gallons per year, reducing the lost water percentage to _____ percent.

2. Explain how the remote read system and any concurrently planned rate system changes is anticipated to reduce water consumption by billing for all water delivered/consumed and estimate the annual usage reduction expected: _____

_____. Usage Reduction: _____ gallons/year.

3. Explain how the system will identify sources of water loss such as breaks, and the volume of water expected to be saved (_____ gallons per year) by identifying and fixing breaks more quickly: _____

4. Document how the centralized remote read capability will limit energy costs and carbon footprint as compared to maintaining manual meter reading. The new system will reduce miles driven by on-site meter reading personnel by _____ miles/year, reduce gasoline usage by _____ gallons/year, and reduce carbon or other emissions by _____ pounds/year.

5. Identify other environmental costs of maintaining the existing on-site reading system or additional environmental benefits of converting to the remote read system: _____

6. Total project costs associated with the installation of the remote read system are \$_____.
7. Identify the source of data used for these calculations: _____
_____.

Pressure Reducing Valve (PRV) Installation/Replacement

1. Water main breaks attributable to excessive pressures, unabated, is estimated at _____ breaks/year.
2. Each break is estimated to result in the loss of _____ gallons of water, calculated to _____ gallons/year of water lost.
3. Estimated energy savings from new/upgraded PRVs is _____ Kwh/year.
4. Total project costs associated with the PRV component of the project are \$_____.
5. Identify the source of data used for these calculations: _____
_____.

Water Main Replacement

1. Over the last ten years, _____ water main breaks have occurred on the water mains that are proposed for replacement, an average of _____ breaks/mile/year.
2. Identify the length, diameter, age and type of pipe to be replaced: _____

3. Each break is estimated to result in the average loss of _____ gallons of water, calculated to total _____ gallons/year of water lost for those water mains.
4. Present the data indicating how this is a significant source of water loss in the system and how the pipes proposed for replacement are likely to generate the greatest return in leak reduction. _____

5. The energy savings from pumping/delivering water through the new water mains versus the old ones is estimated at _____KwH/year.

6. Describe the condition of the replaced mains with respect to friction/head loss etc from tuberculation or other deterioration issues. As appropriate, identify if the soils are corrosive and contributing to the deterioration/breaks or leaks in the mains, and how the replacement mains are designed to address future corrosion:

7. Total projects costs for the water main replacement component of the project are \$_____.

8. Identify the source of data used for these calculations:_____

Submitted by:

Name

Date

Title