

OHIO ENVIRONMENTAL PROTECTION AGENCY
DRINKING WATER STATE REVOLVING FUND (DWSRF)
AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009 (ARRA)
GREEN PROJECT INFORMATION

FFY 2009 ARRA GREEN PROJECT INFORMATION FORM

The Federal American Recovery and Reinvestment Act of 2009 (ARRA) requires a minimum amount of funding be used toward Green Infrastructure, Energy Efficiency, Water Efficiency, or other Environmentally Innovative activity. To ensure that this requirement is met, Ohio EPA is requiring ARRA recipients to provide additional information about potential green components of their project(s).

In many instances, a Business Case is required for justification to consider an item or activity "green". The US Environmental Protection Agency (EPA) has provided guidance for help in evaluating the green elements of a project. Please complete this cover sheet and appropriate page(s), as noted below for each project that will incorporate a "green" component(s). More guidance is provided on the back of each form.

PWS Name: City of Zanesville PWSID: 6002712

Project Name: Wayne Ave Waterline Replacement PPL #: 114
(as assigned by OEPA— refer to project list on web)

Total Estimated Project Cost: \$864,936 Total Est. Green Amount: \$18,340

Type of "Green" Element(s) included in this project. For each box that is checked the corresponding page of this form must be completed and submitted with this cover page. Attach additional pages as necessary:

- Green Infrastructure** (porous pavement, bioretention, trees, green roofs, and other practices that mimic natural hydrology and reduce effective imperviousness)
- Energy Efficiency** (energy audit, water pump system improvements or replacements, variable frequency drives, SCADA, on-site clean power, solids treatment or handling, replacement or rehabilitation of distribution lines)
- Water Efficiency** (water meter installation or replacement, leak detection equipment, water line replacement, water audit, water efficient fixtures)
- Other Environmentally Innovative Activity**

Completed by:

Name: Sarah Wallace Title: Environmental Engineer
(please print)

Signature: *Sarah Wallace* Date: October 13, 2009

For OEPA use only:

Project #: FS390903-01 DWSRF # PPL # 114

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WATER EFFICIENCY: (W) (i.e. water main replacement, meter installation, leak detection equipment, water efficient features)

PWS Name: City of Zanesville PWSID: 6002712

Project Name: Wayne Ave Waterline Replacement PPL #: 114

Total Est. Project Cost: \$864,936 Total Est. Green Reserve Amount: \$18,340

Project Summary:

The project involves the replacement of 8,400' of waterline on Wayne Ave (SR 60) between Marietta St and the Riverview Manor Trailer Park.

Water Main Replacement

Water main material/length to be replaced?	8,400' of 6" cast iron
Est. total system water lost due to breaks and leaks	~50% (don't have exact figure due to lack of meters with satellites)
Est. water loss from pipe being replaced	1.0 million per year
Total annual production	1,990 million gallons
Number of breaks recorded in past 24 months for the area to be replaced?	8 (location results in large amounts of water lost during breaks)
Est. Annual water savings	1.0 million
Est. annual costs savings	\$1,834
Other efficiencies to be gained by the replacement? (i.e. reduced head and therefore less energy loss in an upstream pump station, etc.)	NA

Meter Installation/Replacement

Original Installation Replacement

Reason for replacement?	
Est. annual water savings	
Est. annual costs savings	

Business Case Narrative (Calculate water saving improvements and costs savings):

The City of Zanesville performed 169 water main repairs in 2008. Eight of these were on the line to be replaced herein. Based on the 2007 Audit¹, it costs the City \$1.83 to produce and distribute 1,000 gallons of water. Zanesville will therefore save \$1,834 per year in water loss by replacing this line and \$18,340 over the 10 year life of the loan. That amount is therefore considered green.

¹ 2007 Audit, Page 6

CITY OF ZANESVILLE
ANNUAL REPORT
FOR THE YEAR ENDED DECEMBER 31, 2007

Wolfe, Wilson, & Phillips, Inc.
37 South Seventh Street
Zanesville, Ohio 43701

City of Zanesville, Ohio
Management's Discussion and Analysis
For the Year Ended December 31, 2007
(Unaudited)

Table 2 reflects the changes in net assets for the 2007 compared to 2006.

Table 2
Changes in Net Assets

	Governmental Activities 2007	Business Type Activities 2007	Governmental Activities 2006	Business Type Activities 2006
Revenues				
Program Revenues:				
Charges for Services	\$3,004,789	\$10,322,760	\$2,856,882	\$9,380,671
Operating Grants	2,659,244	0	2,768,444	0
Capital Grants	346,370	805,882	618,162	4,000,000
Total Program Revenues	6,010,403	11,128,642	6,243,488	13,380,671
General Revenues:				
Property Taxes	1,569,727	0	1,317,562	0
Municipal Income Tax	14,228,829	0	12,080,965	0
Payments in Lieu of Taxes	0	0	25,842	0
Grants and Entitlements	2,864,471	0	2,984,167	0
Others	777,853	47,853	966,038	41,055
Total General Revenues	19,440,880	47,853	17,374,574	41,055
Total Revenues	25,451,283	11,176,495	23,618,062	13,421,726
Program Expenses:				
General Government	4,102,066	0	3,440,471	0
Security of Persons and Property	13,383,737	0	11,955,487	0
Public Health Services	2,011,840	0	1,891,821	0
Leisure Time Activities	1,110,516	0	1,394,819	0
Community Environment	1,645,043	0	1,177,759	0
Transportation	2,240,446	0	1,964,628	0
Intergovernmental	200,606	0	0	0
Interest and Fiscal Charges	99,053	0	97,364	0
Sewer	0	4,587,626	0	3,318,133
Water	0	3,650,095	0	4,417,479
Total Expenses	24,793,307	8,237,721	21,922,349	7,735,612
Changes in Net Assets	657,976	2,938,774	1,695,713	5,686,114
Net Assets Beginning of Year	19,348,552	20,917,405	17,652,839	15,231,291
Net Assets End of Year	\$20,006,528	\$23,856,179	\$19,348,552	\$20,917,405