

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: Village of Middleport PWSID: 5300112

Project Name: New Well and Waterline Replacements PPL #: 24
(as assigned by OEPA-- refer to project list on web)

Total Estimated Project Cost: \$3,509,127 Total Est. Green Amount: \$1,834,230

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 #: FS390597-0005 DWSRF # PPL #24

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

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

PWS Name: Village of Middleport PWSID: 5300112

Project Name: Distribution Waterline Replacements PPL #: 24

Total Est. Project Cost: \$3,509,127 Total Est. Green Reserve Amount: \$1,770,000

Project Summary:

This portion of the project includes the replacement of over 5 miles of waterlines throughout the distribution system. The existing 2" & 4" cast iron and galvanized waterlines will be replaced with 6" and 8" new waterlines.

Water Main Replacement

Water main material/length to be replaced?	26,348' of 2" & 4" cast iron & galvanized waterlines
Est. total system water lost due to breaks and leaks	24% avg over last 3 years
Est. water loss from pipe being replaced	20% (majority of breaks on these old undersized lines)
Total annual production	72.5 million gallons
Number of breaks recorded in past 24 months for the area to be replaced?	Unknown – only 1 reported
Est. Annual water savings	14.5 million gallons
Est. annual costs savings	\$59,000
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):

This project will replace over 80% of the distribution for the Village of Middleport. The majority of the system was installed in the 1930s and 40s using small diameter galvanized and cast iron piping. These small, antiquated lines generally represent the majority of the breaks within the system. Over the past 3 years, Middleport has reported water loss of 18, 29 and 25% within the Village⁵ for an average of 24% lost to breaks.

Based on the 2007 operating budget in the auditor's report for the Village's water system, it costs approximately \$4.07 per 1,000 gallons to produce and distribute water within Middleport⁶. Based on the estimated annual water savings shown above, this represents over \$59,000 per year. Over the 30 year life of the project, the Village will save \$1,770,000.

⁵ Email memorandum submitted by Village Administrator Faymon Roberts.

⁶ Page 6 of 2007 Regular Audit

Public Works

From: "Public Works" <water@village.middleport.oh.us>
To: "Faymon Roberts" <copperdog@dragonbbs.com>
Sent: Wednesday, May 06, 2009 4:40 PM
Subject: %

Faymon,

2008 - 18%
2007 - 29%
2006 -25%

Thanks Linda

Post-it® Fax Note	7671	Date	5/28	# of pages	1
To	DEPA	From	MPW		
Co./Dept	Sarah Wallace	Co.			
Phone #		Phone #	992-5571		
Fax #	740-385-6490	Fax #			

Village of Middleport, Meigs County
Management's Discussion and Analysis
For the Year Ended December 31, 2007
Unaudited

(Table 2)
Changes in Net Assets

	Governmental Activities		Business-Type Activities		Total	
	2007	2006	2007	2006	2007	2006
Receipts:						
Program Receipts:						
Charges for Services and Sales	\$294,658	\$ 252,882	\$565,475	\$569,384	\$ 860,133	\$ 822,266
Operating Grants and Contributions	89,659	97,118	9,404	43,320	99,063	140,438
Capital Grants and Contributions	68,280	69,305	-	-	68,280	69,305
Total Program Receipts	452,597	419,305	574,879	612,704	1,027,476	1,032,009
General Receipts:						
Property and Other Local Taxes	101,430	109,161	-	-	101,430	109,161
Income Taxes	238,742	199,646	-	-	238,742	199,646
Grants and Entitlements Not Restricted to Specific Programs	113,839	345,164	-	-	113,839	345,164
Loan Proceeds	283,000	-	-	-	283,000	-
Sale of Bonds	17,777	-	-	-	17,777	-
Other Debt Proceeds	-	-	-	9,000	-	9,000
Sale of Fixed Assets	-	3,650	-	-	-	3,650
Cable Franchise Fees	14,743	14,524	-	-	14,743	14,524
Interest	30,993	28,603	-	-	30,993	28,603
Miscellaneous	16,495	3,605	2,795	8,328	19,290	11,933
Total General Receipts	817,019	704,353	2,795	17,328	819,814	721,681
Total Receipts	#####	1,123,658	577,674	630,032	1,847,290	1,753,690
Disbursements:						
General Government	166,988	185,341	-	-	166,988	185,341
Security of Persons and Property	363,017	351,584	-	-	363,017	351,584
Basic Utilities	173,209	157,644	-	-	173,209	157,644
Transportation	140,001	80,191	-	-	140,001	80,191
Capital Outlay	283,000	136,224	-	-	283,000	136,224
Debt Service Principal	69,810	318,771	-	-	69,810	318,771
Interest and Fiscal Charges	47,143	64,673	-	-	47,143	64,673
Water Operating	-	-	295,001	239,349	295,001	239,349
Sewer Operating	-	-	257,647	218,005	257,647	218,005
Recreation	-	-	24,665	41,736	24,665	41,736
Meter Deposits	-	-	6,554	7,180	6,554	7,180
Leak Insurance Deposits	-	-	1,141	886	1,141	886
Cemetery Operating	-	-	4,700	8,764	4,700	8,764
Total Disbursements	#####	1,294,428	589,708	515,920	1,832,876	1,810,348
Increase (Decrease) Before Transfers	26,448	(170,770)	(12,034)	114,112	14,414	(56,658)
Transfers-In	-	1,000	-	4,609	-	-
Transfers-Out	-	(5,609)	-	-	-	(5,609)
Increase (Decrease) in Net Assets	26,448	(175,379)	(12,034)	118,721	14,414	(56,658)
Net Assets, January 1	362,189	537,568	406,706	287,985	768,895	825,553
Net Assets, December 31	\$388,637	\$ 362,189	\$394,672	\$406,706	\$ 783,309	\$ 768,895