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March 29, 2010

Mr. Kurtis Cotton
DWSIRLF Project Manager
Mississippi Department of Health
P. O. Box 1700
Jackson, MS 39215-1700

Re: Case for "Green" Project Consideration
Water System Improvements
West Marion Water Association
Marion County, MS

Dear Mr. Cotton:

On behalf of West Marion Water Association we would request that this project be considered "Green" and eligible for the Green Project Reserve (GPR). Below I will attempt to identify the major scopes of work proposed and the portion of which should be considered "Green":

1. As part of the project it is proposed to replace the existing water meters with new automatic read meters. Currently, it takes the operator meter reader 14 man hours to record the 601 existing water meters. After installing the new automatic read meters it should only take 4 man hours to record all 601 meter readings; resulting in a net savings of 10 man hours, not to mention the fuel savings of a truck operating for the same 10 hours each month. The cost associated with the installation of automatic read meters is estimated to be \$140,000 as indicated on the attached opinion of probable project cost.
2. Currently, water is distributed to the system through two pressure tanks located at the respective well sites. The two wells supply 247 gpm and 346 gpm respectively to each pressure tank. The two wells cycle on every 15 minutes to pressurize the system, resulting in each well operating for approximately 720 minutes each day. The project scope includes constructing a new elevated storage tank to replace the existing pressure tanks. With the new elevated storage tank in place, the wells will only operate when the elevated tank level falls below a pre-determined level.

In 2009 both wells produced a combined 75,810,600 gallons, based on the master meter readings on each well. If the same amount of water is produced once the elevated tank is constructed the wells will only run when needed, which will result in a run time of 350 minutes per day. Therefore, construction of the new elevated tank should result in the wells operating approximately 50% of the current operating time, therefore resulting in a savings of 50% of the energy cost. The cost associated with the new elevated storage tank is estimated at \$350,000 as indicated on the attached opinion of probably project cost.

3. Several miscellaneous site improvements are planned that should be considered "green" in nature. A storm water detention area is planned to manage the storm water run-off from the new elevated tank site and existing treatment plant site. The proposed access drive to the new elevated tank is proposed to be constructed of porous pavement. The cost associated with these site improvements are estimated at \$20,000 as indicated on the attached opinion of probably project cost.

Thank you for your continued support on this project. If you have any questions or need additional information, please call me.

Sincerely,



Lee Mock, P.E., P.L.S.
Project Engineer

LM/mdb

c: West Marion Water Association

Green Infrastructure Project Consideration Form

This form MUST be completed and returned electronically to the Mississippi State Department of Health, Bureau of Public Water Supply, Drinking Water Systems Improvements Revolving Loan Fund (DWSIRLF) no later than January 21, 2010 for any applicant wishing to receive principal forgiveness consideration. The DWSIRLF contacts for submittal of the above forms are listed below:

William F. Moody – Program Director – wmoody@msdh.state.ms.us

Ulysses Conley – Program Support Specialist – ulysses.conley@msdh.state.ms.us

Applicant: WEST MANION WATER ASSOCIATION

County: MANION

Project Description: NEW ELEVATED STORAGE TANK, AUTOMATIC READ METERS, ELECTRICAL AND CONTROL UPGRADES

Funding Information

Total Project Cost: \$ 750,000

Requested DWSIRLF Amount: \$ 750,000

If the DWSIRLF loan will not fully fund the project, is the remaining funding package complete?

Yes _____ No _____

If yes, what are the other funding sources and the status of their commitments?

Funding Source	Amount	Status

Green Infrastructure Benefit of Project

If your project includes green infrastructure related components such as energy efficiency, water efficiency, green infrastructure, and environmentally innovative projects, please provide the details of the “green” components and what amount of the DWSIRLF loan requested would be to fund these “green” infrastructure components. (See attached information for definitions and qualifications.)

DWSIRLF Amount related to “green” infrastructure \$ 510,000

Provide detailed description of “green infrastructure”:

- (1) REPLACING EXISTING WATER METERS WITH NEW AUTOMATIC READ METERS
- (2) NEW TANK WILL SAVE ENERGY COST OF WELL OPERATION
- (3) STORMWATER RUN-OFF MANAGEMENT AND POROUS PAVEMENT

SEE DETAILED EXPLANATION ON ATTACHED “CASE FOR “GREEN” PROJECT CONSIDERATION”

Please provide contact information for questions relating to this form only:

Contact: J. LEE MOCK
Address: P.O. Box 150, COLUMBIA, MS 39429
Email: JMOCK@dunganeng.com
Telephone: 601-731-2600

Please execute below acknowledging that the information provided is the most current at the time of submission:

Signed: 
Name: BETTY PITMAN
Title: PRESIDENT



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WATER SYSTEM IMPROVEMENTS
FY 2010 - DRINKING WATER SYSTEM IMPROVEMENTS REVOLVING LOAN FUND
WEST MARION WATER ASSOCIATION
MARION COUNTY, MS

Preliminary Opinion of Probable Project Cost

DESCRIPTION	UNIT	PLAN	PRICE	ITEM TOTAL	TOTAL
CONSTRUCTION ITEMS					
New 100,000 gallon Elevated Water Tank					
Site Clearing & Grubbing	ACRE	1.10	\$ 6,818.18	\$ 7,500.00	
Demolition	LS	1	\$ 25,000.00	\$ 25,000.00	
Tank Sitework	LS	1	\$ 25,000.00	\$ 25,000.00	
Erosion Control	LS	1	\$ 2,500.00	\$ 2,500.00	
Yard Piping	LS	1	\$ 14,000.00	\$ 14,000.00	
Chain Link Fencing	LF	550	\$ 20.00	\$ 11,000.00	
New 100,000 gallon Elevated Water Tank	LS	1	\$ 350,000.00	\$ 350,000.00	
Process Instrumentation & Controls	LS	1	\$ 25,000.00	\$ 25,000.00	
Subtotal:					\$ 460,000.00
Automatic Read Meter Replacement					
5/8" x 3/4" PD AMR Water Meter	EA	495	\$ 250.00	\$ 123,750.00	
5/8" x 3/4" Retrofit Kit for Existing Meter	EA	100	\$ 128.00	\$ 12,800.00	
1" PD AMR Water Meter	EA	3	\$ 500.00	\$ 1,500.00	
2" PD AMR Water Meter	EA	3	\$ 650.00	\$ 1,950.00	
Subtotal:					\$ 140,000.00
Total Construction Items:					\$ 600,000.00
NON-CONSTRUCTION ITEMS					
Contingency Allowance (10%)					\$ 60,000.00
Planning & Design Phase Services (9%)					\$ 54,880.00
Construction Phase Services (6%)					\$ 35,120.00
Total Non-Construction Items:					\$ 150,000.00
Total Project Cost:					\$ 750,000.00

Consulting Engineers