

# SIRWA Projects

## Wastewater

### **Bridgewater Sewer Upgrade**

SIRWA replaced the southern one-third of the Bridgewater sewer system approximately four years ago. Due to problems with the sewer system we are now working on repairing the rest of the sewer system by inserting a liner in the sewer mains, and if necessary, install new service lines to each occupied building. The City of Bridgewater received a Community Development Block Grant (CDBG) from the Iowa Department of Economic Development in the amount of \$178,000. SIRWA received a loan from the American Recovery and Reinvestment Act (ARRA) through the United States Department of Agriculture – Rural Development (USDA-RD) for \$516,500, bringing the funding total to \$694,500 for this project.

The engineering firm of Garden & Associates is currently working on this project. We are hoping to have the bidding process for this project finalized in July or August and have the project completed in 2010.

### **Ellston Sewer System**

The Ellston City Council has decided to let the residents of the City of Ellston vote on whether to allow SIRWA to install a Low Pressure Sewer System in the town. This election is set for May 4<sup>th</sup>, 2010. If the vote is passed, SIRWA will install a Low Pressure Sewer System. This means that each occupied building will be equipped with a grinder pump located outside of the building which will push the waste from each building to the treatment system.

SIRWA will partner with the Sun Valley Sanitary Sewer District to pump the Ellston waste to the Sun Valley Wastewater Lagoon. SIRWA has been awarded ARRA monies in the amount of \$181,000 in loan and \$402,000 in grant. The funds will be administrated through USDA-RD.

Engineering will begin as soon as the election results are known in May, with the project to be let out for bids yet this fall. Construction could start in the fall with project completion set for 2011.

### **Ringgold County Sewer System**

The Ringgold County cities of Delphos, Maloy, Benton, and Redding will be determining whether to give SIIRWA the ability to install a Low Pressure Sewer System in their communities. The City Councils for each community must agree to allow the residents to vote on this project. The special election is scheduled for Tuesday, August 3, 2010.

If the election is successful SIRWA will install a Low Pressure Sewer System which will push the waste from each building to a treatment system, in this case, a two cell wastewater lagoon centrally located between the four cities.

# SIRWA Projects

Engineering will start after results of the election are known in August, and should be completed in the early spring of 2011. The bidding process will follow, with construction being completed by the end of 2011, weather permitting.

The four cities have received a CDBG grant in the amount of \$171,000. SIRWA applied for, and was approved for, ARRA loan funds of \$538,000 in loan and \$1,256,000 in grant from USDA-RD.

## Water

### **Creston Water treatment Plant Upgrade**

The Creston Water Works (CWW) and SIRWA are partnering to increase the capacity of the 12-Mile Water Treatment Plant from 6.0 Million Gallons per Day (MGD) to 8.0 MGD. The treatment plant will be capable of 9.2 MGD with modifications to the high service pumps at the 3-Mile Lake intake structure and purchasing additional membrane cassettes. Since SIRWA will own approximately 79% of the treatment plant capacity when completed, we will be paying for approximately 79% of the costs associated with the treatment plant expansion.

SIRWA received \$3,664,021 in normal loan dollars from USDA-RD. We also received ARRA monies in the amount of \$1,400,000 in loan and \$3,399,000 in grant, administered through the USDA-RD. Construction has started on this project with anticipated completion some time in 2011.

### **Fixed Base Meter Reading/Telemetry Upgrades**

SIRWA currently reads each of our 10,000 plus water meters every month. We have been funded to install a system called Fixed Base Meter Reading. With this system every customer and monitor meter will have a small transceiver installed that will relay it's meter reading to one of fifteen different repeater stations located on top of a water tower. These repeater stations will then relay the meter readings to the SIRWA office by way of an internet connection. We'll receive most of the meter readings approximately 5 times each day.

This should enable SIRWA have a daily water use record. We will subtract the water used by the customers from the main buying meter. The difference is called the water loss. This information is now only available to SIRWA on a monthly basis since we only read the meters once a month. This will allow us to pinpoint leaks in our system much quicker. We will also have the ability to inform our customers of a higher than normal water usage on a daily basis rather than once a month.

SIRWA currently has communications between our water towers and pump stations via a radio communications system called "telemetry". Because there are over forty sites reporting back to the SIRWA office, a complete communications loop can take just over fifteen minutes. With the Fixed Base system, fifteen of our towers will have high speed internet

# SIRWA Projects

access. All communications with each of these towers will be relayed to the SIRWA office via the internet. This should make the communications loop less than five minutes.

SIRWA has been approved for ARRA funding in the amount of \$1,488,000 in loan and \$3,433,000 in grant, administered through the USDA-RD. This project should start in early 2011 and take approximately three years to complete.

## **SW Cass Rural Water Project**

SIRWA has been funded for a rural water project in SW Cass County. We are looking into installing at least 276 new services in this area, along with a pump station and new water tower. We will be talking to the City of Corning about buying additional water to supply this area.

SIRWA has been approved for ARRA funding in the amounts of \$1,794,000 in loan and \$5,373,000 in grant funds administered through USDA-RD. This project should be ready to go to a bid in early 2012.

## **Creston/Corning Interconnect**

SIRWA is looking into tying our Creston and Corning service areas together. Tying the systems together would allow SIRWA to shut off the supply from one source and supply those customers from the other in emergency situations such as the "Boil Advisory" we experienced with the Creston source a few years ago. This would be another part of the "Grid System" we are trying to develop in order to tie all of our sources of water together.

SIRWA has been allotted ARRA funds in the amount of \$1,971,000 in loan and \$774,900 in grant, all of which will be administered by USDA-RD. A mid 2012 bid date is currently set.