



State Revolving Fund Loan Program
an Indiana Finance Authority Environmental Program

100 North Senate Avenue, Room 1275
Indianapolis, Indiana 46204
www.srf.in.gov

MEMORANDUM

TO: Project File, Town of Gentryville, Water System Improvements
SRF Project # DW 14027401

FROM: Ethel L. Morgan, PE

DATE: December 16, 2014(Final)

RE: Green Project Reserve, Business Case

Summary

1. The Town of Gentryville is making improvements to its water distribution system including construction of a new 150,000 gallon elevated storage tank, construction of a new 90,000 gallon ground storage tank with demolition of the existing tank, replacement of an existing booster station, and installation of a new Supervisory Control and Data Acquisition (SCADA) system.
2. The energy efficient component is the installation of the SCADA system. A business case was developed identifying the energy and labor savings associated with the installation of the SCADA system. The result of the business case shows that by using the SCADA system, there would be a savings of approximately 594 gallons of gasoline expended to monitor remote sites resulting in an energy usage savings of approximately 42.5%. Therefore, the energy usage reduction exceeds the 20% reduction GPR requirement. With the addition of the labor cost savings, this represents a total savings of \$6,655 per year. The estimated construction cost for this component was \$82,500. **The actual bid cost for this item is \$98,600.**
3. The total GPR component amount for the Water System Improvements project, or SCADA, was estimated at \$82,500 with engineering cost of \$7,250 for a total estimated GPR cost of \$89,750. **The actual as-bid energy efficient GPR cost for this project is \$98,600. The GPR engineering cost for the WWTP Improvements and Additions project is \$15,492, for a total GPR as-bid cost of \$114,092.** Gentryville closed on a SRF loan on December 15, 2014 in the amount of \$1,390,000.

Conclusions

1. The business case and categorical exclusion was reviewed by internal staff and found to be in accordance with meeting the GPR requirements for the energy efficiency category.

