**MEMORANDUM**

**TO:** Project File, City of Fort Wayne, 2011 Wastewater Utility Improvements,

SRF Project # WW11 17 01 06

**FROM:** Jack Fisher

**DATE:** August 23, 2012

**RE:** Green Project Reserve (GPR), Business Case

**Summary:**

• As part of an Agreed Order and Consent Decree, the City is required to ensure that the collection system is operated and maintained in the best practical manner. Appendix 2 of the Consent Decree requires a sewer rehabilitation program.

• This project provides for the rehabilitation of smaller diameter (8-inch to 15-inches) and medium diameter (18-inch to 24-inches) as identified and prioritized in a review of the sewer televising tapes, customer complaints and the recommendations of the Sewer Maintenance Department. The project will reduce infiltration and inflow being transported to the wastewater treatment plant for treatment.

This project includes rehabilitating approximately 23,313 feet of 8-inch, 6,719 feet of 10-inch, 18,232 feet of 12-inch, 400 feet of 15-inch, 763 feet of 18-inch, and 9,389 feet of 24-inch.

• The project also includes the installation of infiltration ditches in the Snider and Glenwood Sewer Separation Project. The infiltration ditches are considered categorical pursuant to Paragraph 1.2-1 of the CWSRF Technical Guidance in Attachment 2 of the USEPA GPR Guidance.

• Estimated State Revolving Fund Loan Amount is $10,400,000.

• Estimated energy efficiency savings (Green) portion of the loan is $2,588,116 for construction costs pertaining to the sewer rehabilitation work, and $39,925 for the construction of infiltration ditches. Design costs for the infiltration ditches are $3,960. The total GPR cost of $2,632,001 is 25% of the total project costs.

**Conclusions**

• The proposed CIPP improvements will result in annual energy cost savings of $33,227 associated with the wastewater treatment plant, and $244,949 total treatment cost savings.

• The CIPP project will have an 11-year payback with the life expectancy of the sewer improvements at 70 plus years.