



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, City of Crown Point, Wastewater Treatment Plant Improvements

SRF Project #: WW 14 33 45 04

FROM: Ethel L. Morgan, PE

DATE: April 6, 2015

RE: Green Project Reserve, Business Case

**Summary**

1. The Crown Point Wastewater Treatment Plant Improvements Project PER was approved on July 18, 2014. The project consists of the replacement of the tertiary filter system and construction of a new tertiary filter building. Green Project Reserve (GPR) descriptions and a business case was developed and presented by Commonwealth Engineers, consulting engineers for the City in the appendices of the preliminary engineering report (PER). The business case was fully developed during and after the project was bid.
2. This project will replace five existing pressure filters with three disc filters. The existing large filter influent pumps will be replaced with smaller high flow, low head pumps. The energy savings will be realized by the use of the smaller filter influent pumps and the reduction in backwash pumping. The projected annual energy savings in the filtration process is estimated to be \$13,747, which is a savings of 65%. The actual as-bid cost for the project is \$3,814,000. The as-bid costs for the installation of the GPR components, tertiary filters, T-8 fluorescent lights and high efficiency HVAC system, is \$767,412. The GPR engineering costs is \$179,378.
3. **The total as-bid GPR including engineering costs is \$946,790.** Crown Point closed on a SRF loan on May 8, 2015 in the amount of \$4,950,000.

**Conclusions**

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

