



MEMORANDUM

DATE: June 4, 2013

TO: Stockton 2.1 File
2010 Funding EPA CWSRF
KWPCRF Project No.: C20 1802 01

FROM: Rod Geisler, PE, Chief Municipal Programs Section.

SUBJECT: Stockton, Kansas
Project to Replace Mech. Plant with Lagoon with Effluent Irrigation
EPA Green Project Reserve

Similar to the ARRA funding effort, the Federal Clean Water SRF funding provided in FFY 2010 requires a 20% "Green Project Reserve" (GPR) for use of the federal funds. EPA wrote new guidance to define qualifying uses for the Green Project Reserve requirements for the FFY 2010 funding, dated April 21, 2010 (copy of excerpts attached). As stated on page 1, paragraph "II. GPR Goals." The "intent" is "to guide funding toward projects that...enhance water and energy conservation...". The project at Stockton, Kansas, achieves this goal by reusing treatment effluent to irrigate a golf course that previously used local runoff and also potable water purchased from a Rural Water District.

The project being funded will completely replace the mechanical wwtp with a new lagoon, which includes an effluent storage cell, disinfection with chlorine, effluent pumping station, and force main to the golf course. A review of the FFY 2010 GPR guidance as presented below indicates portions of this project meets the requirements to qualify as a Green Project Reserve project in accordance with these Federal guidelines.

0.1 All GPR projects must otherwise be eligible for CWSRF funding.

- The project at Stockton is eligible.

0.2 All Section 212 projects must be consistent with the definition of "treatment works" as set forth in Section 212 of the Clean Water Act (CWA).

- The project at Stockton is a "Section 212" project, the wastewater treatment plant is publicly owned, and the project will have a direct water quality benefit by eliminating the discharge to the receiving stream, and reusing the effluent for irrigation of a golf course.

0.3 Eligible non-point source projects...

- NA. This is not a non-point source project.

0.4 Eligible projects under Section 320...

- NA. This is not a Section 320 project.

0.5 GPR projects must meet the definition of one of the four GPR categories.

- See below

0.6 GPR project must further the goals of the Clean Water Act.
CWSRF Technical Guidance

1.0 Green infrastructure

- NA

2.0 Water Efficiency

2.1 Definition

- EPA's WaterSense program defines water efficiency as the use of improved technologies and practices to deliver equal or better services with less water. Water efficiency encompasses conservation and reuse efforts, as well as water loss reduction and prevention, to protect water resources for the future.

2.2 Categorical Projects

- 2.2-6 – Recycling and water use projects that replace potable water sources with non-potable sources
- 2.2-6a - Gray water, condensate, and wastewater effluent reuse systems

3.0 Energy Efficiency

- NA

4.0 Environmentally Innovative

- NA

Therefore, the project at Stockton meets the EPA definition of being “categorically” green. The project also meets the definition of “KDHE green” as it replaces a high energy use and labor intensive mechanical wwtp with a very low energy use and simple lagoon treatment process. The loan agreement will provide 15% principal forgiveness for all engineering and construction costs, and will also provide an additional 25% principal forgiveness for the cost of construction of the qualifying “green design components” based on the approved bid form and a proportionate amount of the engineering costs, up to a maximum amount provided for principal forgiveness of \$1,848,920. Based on information presently available which is the low bid price, nearly the entire project qualifies as “green design components”, and \$1,085,510.10 qualifies for EPA GPR reporting.

The total cost of the project after opening bids is \$5,402,300. The entire cost is considered a “green design” contributing to energy use reduction and effluent water reuse with the entire project eligible for 40% principal forgiveness, but limited to the original amount of principal forgiveness. The EPA GPR qualifying cost is \$1,085,510.10. A follow up memo will provide the final eligibility review based on the final actual costs of construction for the record.

Attached

- Email from Rance Walker
- Bid Form
- Excerpts from FFY 2010 EPA GPR Guidance

Pc:Rance Walker
Rod Geisler