

COUNCIL ACTION FORM

**SUBJECT: WATER POLLUTION CONTROL FACILITY SCREW PUMP
REHABILITATION PROJECT**

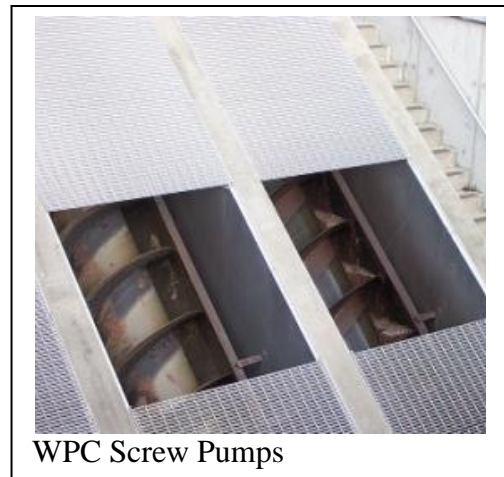
BACKGROUND:

The Ames Water Pollution Control (WPC) Facility uses three screw pumps as part of the treatment process. The pumps are integral to the biological process and are the original equipment dating to 1989. The WPC Long-Range Facility Plan completed in 2012 recommended that these pumps be repainted and rebuilt based on their age and condition.

The FY 2013-18 Capital Improvements Plan (CIP) included \$90,000 to repaint the three pumps. The FY 2014-19 CIP projected an additional \$250,000 expense in FY 15/16 to rehabilitate the pump drives and bearings.

The close proximity of the pumps to each other will make it difficult to contain the sandblast media necessary to remove the current paint and also raises safety issues with performing this work next to an adjacent operating pump. These factors may induce a painting contractor to remove the pumps and perform the sandblasting and recoating in a more remote area of the facility. The later rehabilitation project will require each pump to be lifted out of place a second time in order to install new bearings.

Staff now believes it would be advantageous to perform these two projects simultaneously. The pumps would only need to be pulled from the channels one time, minimizing the operational impact and potentially lowering the overall construction cost. As a result, the budgeted painting work was not pursued during FY 13/14.



WPC Screw Pumps

Staff is recommending that, due to the condition and importance of these pumps, the two projects be combined into a single project that would take place in FY 14/15.

In order to fund the \$250,000 for the pump rehabilitation work a year early, staff is recommending delaying a FY 14/15 project to replace the WPC Administration Building HVAC system by one year until FY 15/16. The following tables summarize the current and proposed CIP funding:

Current CIP budget

Project	FY 13/14	FY 14/15	FY 15/16	Total
Screw Pump Painting	\$90,000			\$90,000
Admin Bldg HVAC		\$300,000		\$300,000
Screw Pump Rehab			\$250,000	\$250,000
Total	\$90,000	\$300,000	\$250,000	\$640,000

Proposed CIP budget

Project	FY 13/14	FY 14/15	FY 15/16	Total
Screw Pump Painting & Rehab		\$340,000		\$340,000
Admin Bldg HVAC			\$300,000	\$300,000
Total	\$0	\$340,000	\$300,000	\$640,000

ALTERNATIVES:

1. Authorize the change in the Water Pollution Control CIP project sequence as described above. The current fiscal year budget changes will be included as a part of the early budget amendment that will be brought to Council in September. Future year changes will be incorporated into the next update to the CIP that will be presented to Council in January.
2. Maintain the adopted Water Pollution Control CIP budget. Staff will then proceed with repainting the screw pumps in the current fiscal year; and will propose the rehabilitation of the drives and bearings in FY 15/16 as previously shown in the Capital Improvements Plan.

MANAGER'S RECOMMENDED ACTION:

Staff has identified an opportunity to consolidate two individual CIP projects addressing the condition of the screw pumps in order to minimize the operational impact on the facility and potentially reduce the overall construction cost. By reprioritizing and delaying an HVAC project, the higher priority screw pump project can proceed with minimal impact on the overall Sewer Fund balance.

Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, thereby authorizing the above described change in fiscal year sequence for components of the Secondary Treatment Improvements and the Mechanical and HVAC Replacements pages of the Capital Improvements Plan.