



City of Stevenson

Leana Johnson, City Administrator

Phone (509)427-5970
FAX (509) 427-8202

7121 E Loop Road, PO Box 371
Stevenson, Washington 98648

To: Stevenson City Council
From: Leana Johnson, City Administrator
RE: Sewer Plant Update
Meeting Date: April 19, 2018

Executive Summary:

After the conversation at the last council meeting, staff determined it would improve communications if the sewer plant update were submitted in a memo prior to the council meeting. There were multiple council requests discussed and staff has been busy researching those requests and handling other issues related to the wastewater plant. The end result is that some decisions will need to be made regarding a path to take and the funds used to finance that path.

Overview of Items:

Value Planning:

The City is waiting for a scope of work for the value planning effort through the Center for Sustainable Infrastructure (CSI). The total cost of this is estimated to be around \$60,000. The Department of Ecology is still discussing whether or not it would be reimbursable under the current loan/grant application. A kick-off meeting is currently scheduled for April 25th to meet the tight 8-week timeline. The expectation is that this process will require a Facilities Plan amendment, which will need to be approved prior to starting the design process.

Operations and Maintenance Audit:

In discussions with Ecology, they mentioned including the requirement to have a wastewater operations audit of the treatment plant to optimize operations. The city received a recommendation for Wastewater Solutions, Inc. (WSI) and they have provided a proposal for the work. The total cost would be \$22,050. A copy of the proposal is attached.

Month Long BOD5 Testing:

The month long BOD5 testing will take place in the next couple of months. A scope of work from Wallace Engineering is attached and would fall under the current contract for general engineering services we have with them. This item is not included in the budget. The scope currently calls for the city to set up and collect the samples, which may change after they talk with the industries. The main goal is to have confidence with the results from this round of testing. If that means we contract for the collection of samples, then the cost would increase by \$13,100 (for a total amount of \$22,456) and a contract amendment would be needed. This cost does not include the additional expense of lab work needed or renting of testing equipment.

Plant Operations:

Over the past two months the city has experienced foaming events at the plant, typically on Tuesday or Wednesday. In March, the foaming event occurred when a clarifier was down for repairs which led to the city violating its permitted effluent levels for BOD. The city contacted Ecology and we held a conference call with the OMI operator, city and Dave Knight. Staff is working on a response to their request for additional information regarding the event and plant operations. The city also received notice from the City of Vancouver that they will no longer take our solids. Staff is looking into alternative locations.

Infiltration and Inflow (I&I):

As a follow-up to the discussion at the last council meeting regarding I&I, staff researched the cost to camera all sewer lines in the city. A memo regarding the results and recommended action is attached. Tetra Tech has been working with the city on the I&I issue since early 2010 and they wrote a tech memo on the system conditions in 2016, which is also attached.

Funding:

The city is pursuing an EDA grant for upgrades that would mitigate impacts from flood events. The total project cost for the Kanaka and Rock Creek pump stations replacement and flood related improvements to the treatment plant is \$3,361,000. The grant would require a 20% match, or \$672,200, and the grant would pay for the remaining \$2,688,800.

There was an error in the calculation of the city's portion for the CERB grant. Rather than \$12,500 needed for the match, the actual amount is \$16,667. Staff is working on the presentation for the board in Olympia on May 17th. We hope to know after the presentation as to whether or not we will receive the grant.

Pretreatment Ordinance:

Staff requested a modification of the Administrative Order for an extension of the timeline for the adoption of a pretreatment ordinance. Recently Ecology was issued an adverse ruling on changes to administrative orders. They stated that they were not able to extend the adoption of the entire ordinance and suggested that the city adopt it in part and request an extension for the specific portions not adopted. A meeting was held with the high strength users to discuss the ordinance and what sections to be delayed if any. There were a few minor changes made and consensus to move forward with the ordinance.

Tetra Tech Memo on Alternatives:

In recent conversations with Tetra Tech, staff requested a memo clarifying the alternative plant configurations that were researched with the Facilities Plan update. A copy of that memo is attached explaining the alternatives and reasons why they recommended the city not move forward with each option.

Additional Phasing:

As discussed at the last council meeting, Ecology is open to adding another phase to the construction of a second ditch provided the city take certain steps to improve plant processes. One of those steps involved hiring a level III plant operator. To date the city has only seen applicants that would qualify as a level I operator.

Action Needed:

Staff needs confirmation or approval for moving forward with the following items:

Value Planning: Approve authorizing the City Administrator to sign a contract with the Center for Sustainable Infrastructure for an amount not to exceed \$60,000 for value planning services.

Month Long BOD5 Testing: Approve authorizing up to \$22,456 to complete the testing with Wallace Engineering.

Operations and Maintenance Audit: Approve proposal from Wastewater Solutions, Inc. for operations audit services in the amount of \$22,050.

I&I: If council wishes to camera the remaining sewer main line in 2018, approve authorizing an additional \$17,000 to the sewer budget for a total revised budget for sewer lining of \$77,000.

CERB Grant: Approve city paying the match of \$16,667 for the CERB grant.

Funding Options

Item	Worst Case Senario	Best Case Senario
Value Planning	60,000.00	-
Month-Long BOD testing	22,456.00	9,356.00
O&M Audit	22,050.00	22,050.00
Additional I&I Testing	17,000.00	-
CERB Grant	16,667.00	16,667.00
Total Budget Expense Increase	138,173.00	48,073.00

Revenue Sources	
Current Sewer Reserves	132,380.00
Timber Harvest Balance	1,052,034.82
Capital Improvement Balance	59,345.13
General Fund-Unreserved Balance	1,021,846.80