



City of Stevenson

Leana Kinley, City Administrator

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To: Stevenson City Council
From: Leana Kinley, City Administrator
RE: Sewer Plant Update
Meeting Date: November 21, 2019

Executive Summary:

This is an overview of items staff has been working on over the past month in line with the direction council gave to staff.

Overview of Items:

Plant Operations:

Staff continues to research options for operating the plant beginning Jan. 1, 2020. We are in contact with Ecology and working to ensure they are on board with the route we choose.

The plant has seen marked improvement with the sidestreaming efforts of Backwoods Brewing and LDB, Inc. A copy of the BOD and TSS graphs are attached.

The bids for Immediate Upgrades are due by the end of the week. Construction will begin soon and completed by the end of this year. The contract is expected to be under \$63,000. To expedite the process, staff requests tentative approval of the lowest bid contract, not to exceed \$63,000, to be ratified at the December 19th council meeting.

The average monthly Influent BOD load has been:

2018

- January 675 lbs/day – No Effluent Violations
- February 1,793 lbs/day – No Effluent Violations
- March 1,099 lbs/day – BOD and TSS Effluent Violations
- April 991 lbs/day – BOD and TSS Effluent Violations
- May 1,265 lbs/day – BOD and TSS Effluent Violations
- June 1,124 lbs/day – No Effluent Violations
- July 920 lbs/day – Low pH Violation (one day)
- August 1,113 lbs/day – No Effluent Violations
- September 1,439 lbs/day – Low pH Violation (one day)
- October 1,072 lbs/day – No Effluent Violations
- November 1,032 lbs/day – No Effluent Violations
- December 807 lbs/day – No Effluent Violations

2019

- January 776 lbs/day – Solids washout from clarifiers on 29th and 30th, TSS and BOD Effluent Violations

- February 749 lbs/day – Solids washout from clarifiers on the 18th.
- March 803 lbs/day – Solids washout from clarifiers on March 13th, TSS Effluent Violation
- April 589 lbs/day – Solids washout from clarifiers on April 1st
- May 1,067 lbs/day – No Effluent Violations
- June 897 lbs/day – No Effluent Violations
- July 785 lbs/day – No Effluent Violations
- August 833 lbs/day – No Effluent Violations
- September 720 lbs/day – No Effluent Violations

The current permit limit for Influent is 612 lbs/day and the current upgrades in the adopted General Sewer Plan call for a design max monthly BOD loading of 1,611 lbs/day.

WWTP Design:

Wallis Engineering presented the draft design and updated costs to council at the October 17th council meeting. It has been submitted to Ecology and they are in the process of reviewing it. Initial feedback is positive.

Staff is aware of an additional treatment method using media to increase the surface area for bugs within the aeration basin, allowing for faster treatment and increased capacity without increasing plant footprint. There is a test being done with Clean Water Solutions that will complete in January and, if successful, staff plans to research further. The cost difference currently estimated is dramatic.

Funding:

The city received a Notice of Further Consideration for the its EDA application for lift station improvements and flood protection at the wastewater treatment plant. The total project amount is \$5,068,000 and 80% would be covered by the grant and the remaining 20% will be covered by a USDA loan that the city is in the process of obtaining. The city requested the deadline be extended to November 29th in order to complete the environmental requirements requested in the notice.

Staff is responding to questions on the USDA application for the EDA match and obtaining the additional paperwork needed for the loan, which includes a Cultural Resources survey. The SEPA comment period is open for the next two weeks.

Compliance:

The draft amendment to the Administrative Order is still in process. When it is finalized it will require additional testing.

The City's moratorium on commercial connections above residential strength was extended for an additional year on November 14, 2019.

The contracts with Significant Industrial Users are still being negotiated. A change to the ordinance will be presented at the December meeting to allow contracts with long-term tenants versus only property owners.

Action Needed:

Approval of the lowest bid contract for Immediate Improvements, not to exceed \$63,000, with the contract ratified at the December 19th council meeting.