



# *City of Stevenson*

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To: Stevenson City Council  
From: Carolyn Sourek, Public Works Director  
RE: Sewer Plant Update  
Meeting Date: April 20, 2023

## **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.

Devon Groom was promoted to Wastewater Treatment Plant Operator II.

## **Overview of Items:**

The plant continues to operate within its permit limits for total suspended solids (TSS), biochemical oxygen demand (BOD), and bacteria for its effluent.

The WWTP Plant Upgrade project has completed their anoxic basin pours and are working through some necessary repairs prior to backfilling. Portions of the UV chamber have also been poured. The City has received the proposal costs for the vac truck dump station and is reviewing options for bringing that price down. The proposal was approximately \$250,000.

On the agenda is a resolution to extend the moratorium for new commercial service connections. The language has been refined to remove commercial users producing standard strength waste and retain prohibition of connections for significant industrial users.

Only punchlist items remain for the contractor to complete the 2021 Collection System Improvements Project.

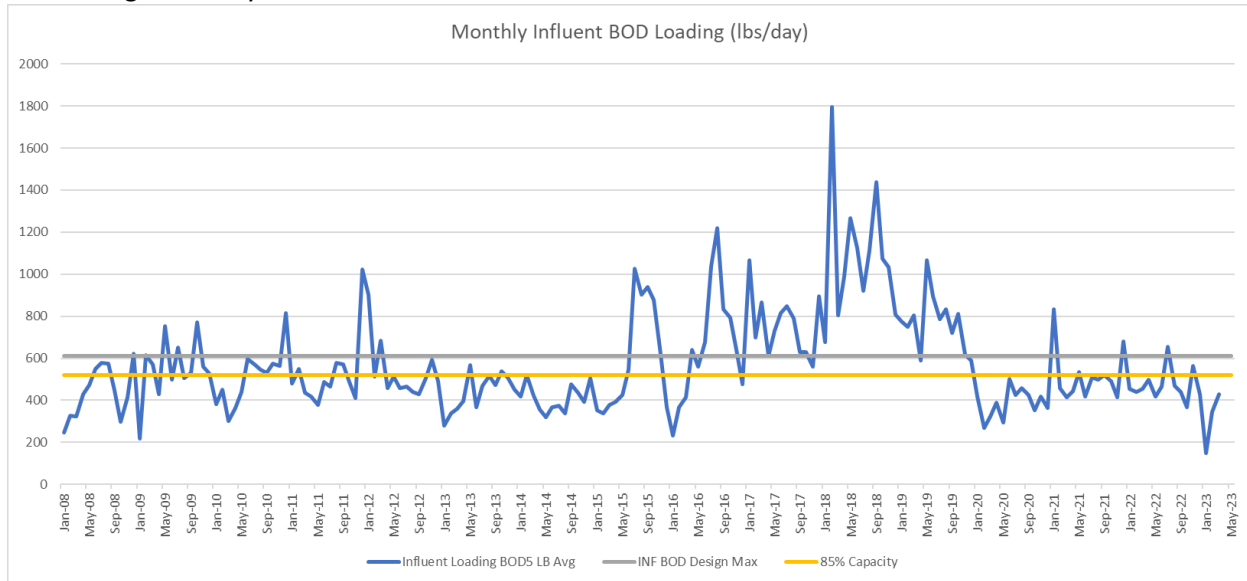
The 90% design plans for the Kanaka, Cascade, and Fairgrounds pump stations have been received, reviewed, and returned to the consultant engineers. They are working towards a final package for submission to City and funding agencies in May, with an advertisement the end of June. The City hopes to procure some equipment in advance of the contract award to reduce potential lead time impacts.

The sewer mainline under Cascade Ave was identified as being undersized in the General Sewer Plan. Consultant engineer, Greyling Engineers, has prepared a draft Preliminary Engineering Report (PERS) outlining known issues and propose costs for repair and replacement of sewer mainline, as well as deficient, adjacent water line, and street improvements (streetlights and stormwater collection). The initial project cost estimate is \$2M for all proposed improvements. The City is seeking funding for this project and hopes to construct in 2024.

We believe the clarifier fish did not make it through the winter but, this innovative practice is something other plants are investing time and energy in pursuing. Our WWTPO plans to continue pursuing this practice at our plant as well.

**Plant Operations:**

The average monthly Influent BOD load since 2008 is in the chart below.



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.

**Funding:**

The \$2.5M in direct federal appropriations requested spring of 2021 is moving forward. The application has been submitted and we are waiting for EPA review and a contract. As soon as the process is completed, we can be reimbursed for the work. Due to the increased cost for the WWTP project, the \$2.5M in funds will allow us to hold off on requesting additional loan funds as long as possible.

|                                 | Budget   | Loan              | Forgivable Principal | Grant            |
|---------------------------------|--|-------------------|----------------------|------------------|
| WW Upgrades Design              | 2,000,000  | 960,000           | 400,000              |                  |
| WW Collection System Upgrades   | 5,100,000  | 873,000           |                      | 4,125,000        |
| WW Treatment Plant Construction | 12,100,000   | 8,700,000         | 900,000              | 2,500,000        |
| Main D Extension                | 300,000  | 270,000           | 30,000               |                  |
| <b>Totals:</b>                  | <b>19,500,000</b>  | <b>10,803,000</b> | <b>1,330,000</b>     | <b>6,625,000</b> |
| Amount of Funding:              | 41% Grant and Forgivable Principal   |                   |                      |                  |
| Loan terms:                     | DOE Loan 1: 2.0% interest, 20-years, \$61k est. annual payment<br>DOE Loan 2: 1.5% interest, 30-years, \$375k est. annual payment<br>USDA Loan: 1.375% interest, 40-years, \$29k est. annual payment |                   |                      |                  |

**Action Needed:**

None.