



City of Stevenson

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To: Stevenson City Council
From: Carolyn Sourek, Public Works Director
RE: Sewer Plant Update
Meeting Date: November 17, 2022

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:

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 continues to progress. Due to the heavy rains and substantial inflow and infiltration (I/I) the weekend of 11/4, the WWTP staff was required to shut down contractor dewatering pumps (which share an outfall with the WWTP effluent) to avoid a plant overflow. Plant drain pumps have arrived and we are working with the contractor to install as soon as possible so the rental backup pump can be returned. Additionally, the keypad for the variable frequency drive (VFD) which controls one of the return activated sludge (RAS) pumps went blank the week of 10/24. As part of the WWTP upgrades, all VFDs are scheduled to be replaced, however not for at least two months. We were able to secure a temporary keypad to allow this drive to continue functioning as intended. The construction management firm is working with the contractor to develop a reasonable temporary power change order to bring us back into a reasonable schedule. The most recent schedule, assuming temporary power changes are accepted, is July 2023.

The 2021 Collection System Improvements Project nears completion. Final concrete pour and paving are scheduled for 11/10 and 11/14, respectively. Landscaping is being finished and a punchlist walk through is expected 11/15. The Rock Creek Pump Station was also tested during the heavy rain event. Additional training for PW staff has been requested as much of the equipment is new and unfamiliar to staff.

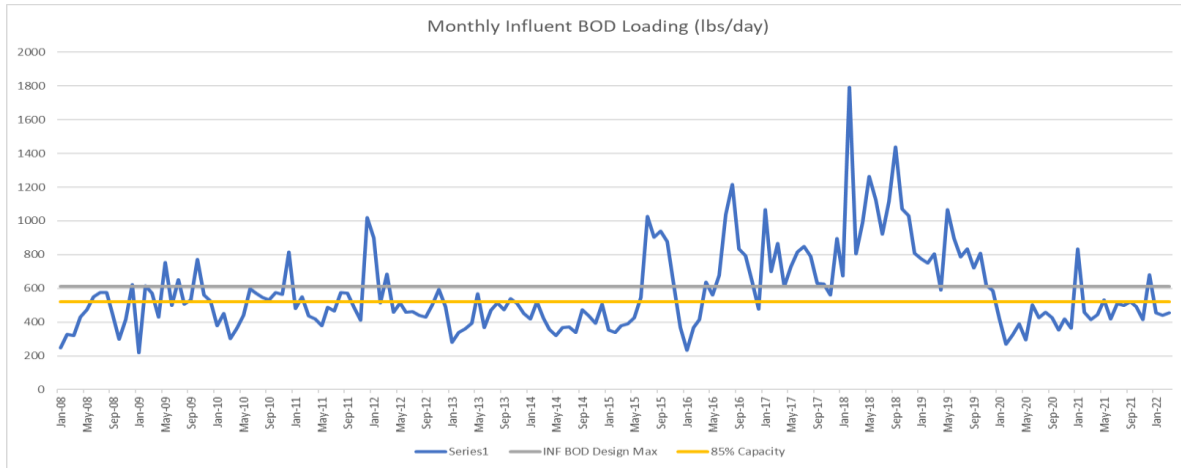
The 60% design on Kanaka, Cascade, and Fairgrounds pump stations was submitted to the City and is being reviewed. New and innovative equipment is being demoed at the Fairgrounds pump station. Results are preliminary but we expect this technology may be an opportunity to further reduce biochemical oxygen demand (BOD) at the WWTP.

Jonathon Dexter passed his Level 1 WWTP Operators test. Congratulations.

The fish, we suspect, have not been seen since we started getting cooler weather and may have migrated lower in the clarifiers to better regulate their internal temperatures.

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. CFM Advocates are helping with the application based on our request. There is no competition for the funds, and there is no deadline for the application. As soon as the process is completed, we can be reimbursed for the work.

	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	
Totals:	19,500,000	10,803,000	1,330,000	6,625,000
Amount of Funding:	41% Grant and Forgivable Principal			
Loan terms:	DOE Loan 1: 2.0% interest, 20-years, \$61k est. annual payment DOE Loan 2: 1.5% interest, 30-years, \$375k est. annual payment USDA Loan: 1.375% interest, 40-years, \$29k est. annual payment			

Action Needed:

None.