



City of Stevenson

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To: Stevenson City Council
From: Carolyn Sourek, Public Works Director
RE: Sewer Plant Update
Meeting Date: June 16, 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. Our operator continues to be challenged this month by dewatering flows from the Phase 1 Collection System improvements project being discharged to the plant (per the contract), which has affected our influent limits for TSS. Extensive dewatering efforts required as part of the Rock Creek pump station excavation are expected in the coming weeks. The contractor has developed a plan with additional pretreatment efforts to mitigate influent TSS in the future.

In preparation for the WWTP Upgrade construction, the PW staff relocated all equipment and materials not required for WWTP operations to the Base Reservoir for temporary storage. A permanent storage facility will need to be identified in the immediate future. Additionally, the maximum amount of biosolids were wasted, in attempt to mitigate the need for oversized vehicular access to the plant in the coming months.

Lastly, six koi fish were added to the north clarifier. After multiple weeks, all are alive and accounted for, and we observe them cleaning algae off the sides of the tank regularly.

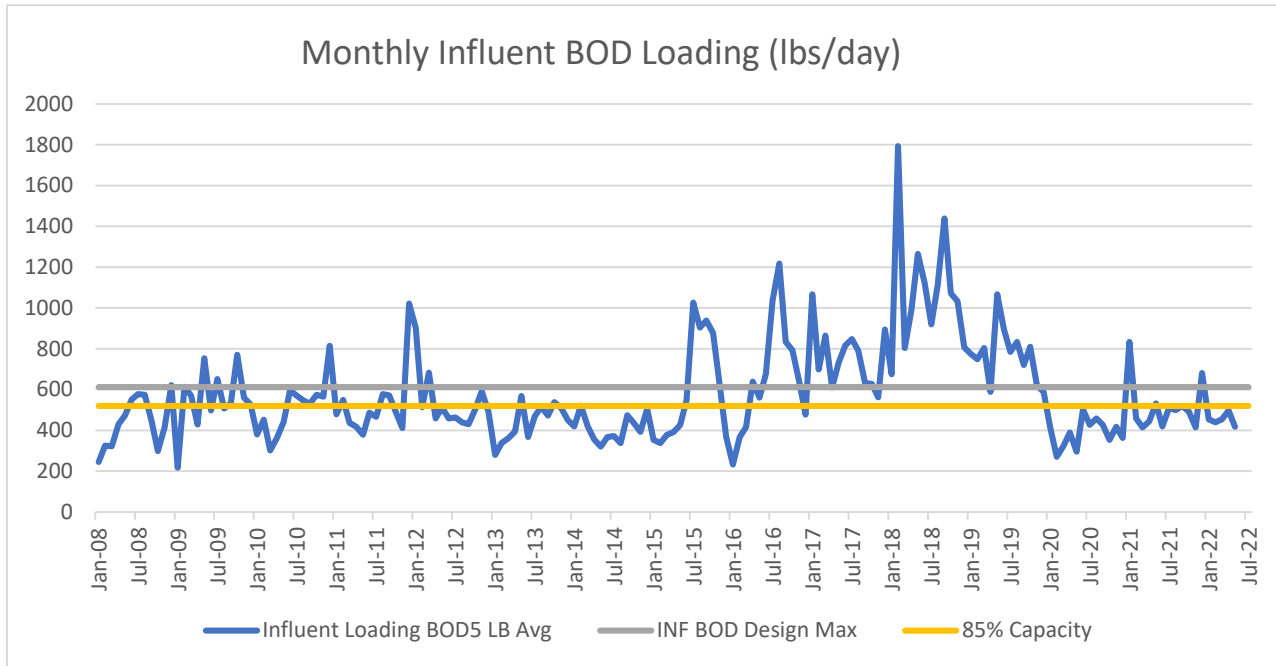
WWTP Design:

Construction continues for both the Main D Extension and the Phase 1 Collection System Improvements projects. More detailed updates can be found on the [City website](#). Main D Extension final paving and striping is scheduled for the week of June 13 thru 17, 2022.

Steller J plans to mobilize to the site on June 20, 2022 to commence the construction component of the WWTP Upgrades projects. Due to water table elevation and predicted extensive associated dewatering efforts with excavating for the aeration basin, true groundbreaking will likely be in early July. As the schedule develops, a groundbreaking ceremony will be scheduled.

Plant Operations:

The average monthly Influent BOD load since 2008 is in the chart on the following page.



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 last spring was approved the beginning of the year. There is no update on when and how these funds can be used. The breakdown on all funding received for the project to date is below. We will work with the funding agencies on a path forward to fund cost overruns due to inflation and the ongoing impact of COVID on the construction and supply chain environment.

	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	9,600,000	8,700,000	900,000	2,500,000*
Main D Extension	300,000	270,000	30,000	
Totals:	17,000,000	10,803,000	1,330,000	6,625,000
Amount of Funding:	42% Grant and Forgivable Principal			
*\$2.5M direct federal grant applied for to reduce the \$8.7M loan, or be applied to other WWTP phases				
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.