



UTILITY/MARINA COMMITTEE

420 N Front St.

Suttons Bay, MI 49682

Monday, September 13, 2021 8:10 am

VIA Remote Participation

The public may participate in the meeting through Zoom access by computer and smart phone and can find the link on our website at www.suttonsbayvillage.org

AGENDA

Call to Order

1. Reports (staff)
 - a. DPW Director Report
 - b. Marina Report
 - c. WWTP Report

2. Public Comments

Please limit remarks to no more than three (3) minutes or less.

3. Committee Business

4. Status Update – Other Committees

- a. VSB 2021-46 Street Tree Policy
- b. VSB 2021-47 Art Festival
- c. VSB 2021-51 Blight Ordinance
- d. VSB 2021-52 Banner Policy
- e. VSB 2021-50 S Shore Drive

5. Public Comments/Written Communication

6. Committee Member Comments

7. Announcements

8. Adjournment

Roberto Larrea is inviting you to a scheduled Zoom meeting.

Topic: Administrative Committee Meeting

Time: Sep 8, 2021 08:10 AM Eastern Time (US and Canada)

Join Zoom Meeting

<https://us02web.zoom.us/j/83665934987?pwd=R3NwV0pDWDcxMDVMVVI4NzV5Z1IsUT09>

Meeting ID: 836 6593 4987

Passcode: 902925

One tap mobile

+13126266799,,83665934987#,,,,*902925# US (Chicago)

+19294362866,,83665934987#,,,,*902925# US (New York)

Dial by your location

+1 312 626 6799 US (Chicago)

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Meeting ID: 836 6593 4987

Passcode: 902925

Find your local number: <https://us02web.zoom.us/u/kARrUUP7w>

		DEPARTMENT OF PUBLIC WORKS REPORT DPW -2021- 06	
Prepared:	September 1, 2021	Pages:	1 of 1
Meeting:	Committee of Whole	Attachments:	<input type="checkbox"/>
Subject:	September 2021 Update; DPW		

GENERAL SERVICE HIGHLIGHTS

Work continues clearing of overgrowth at intersection easements to aid in eliminating blind spots for drivers and pedestrians.

Elm St. paving project was completed August 27th, restoration and grading of shoulders is planned during the first week of September.

Northside of 422 St. Mary’s on Grove St. roadway gave way to vehicles with boats parking on the road edge causing significant asphalt damage, undermining of the street and ditch line erosion. In addition, repairs were completed to crushed drainpipe and broken storm cover. Slope was adjusted to allow for correct stormwater drainage.

UTILITY HIGHLIGHTS

Power surge from a blocked sewage pump (towel) at the Main Lift Station has been pulled and sent in for repair, the internal connectors arced and burned up. An emergency portable backup pump was rented and is currently operating at the station. **UPDATE:** First repaired pump is back in service, and the second pump is due back the first week of September. Both pumps will have been completely rebuilt with all new bearings and seals.

Emergency call out August 28th 10:30 PM, sewer pump plugged with multiple flushable wipes and rags. We will post information on the website and newsletters regarding this wastewater nemesis. Searching preventative screening devices to aid in reduction of equipment plugging.

Sewer cleaning of the low flow areas and Main Pump Station was completed during the last week of August. Manhole inspections beginning to take place starting throughout the entire collections system.

Water storage tanks were inspected, chlorinated, flushed, and cleaned in mid-August, moving forward we will be completing this bi-annually during the spring and fall chlorination and flushing.

Hydrant replacement and relocation at the intersection of M 204 & M22 due to a semi-truck losing control from brake failure, company will be invoiced for the replacement portion. We decided due to this being a recurring event that we would move the hydrant 20’ to the south to avoid future incidents.

EGLE Lead and Copper samples were collected in the beginning of August as required.

August 2021

Suttons Bay Marina Staff Report

The month of August has been extremely busy. Almost every weekend we maintained a waiting list for transient slips. The daily operations of the marina keep the staff and myself busy. Assisting boats into slips, fueling, pump-outs trash runs, cleaning restrooms, wiping down power pedestals, picking up geese waste, clearing cobwebs, taking reservations, checking customers into and out of slips; plus, and not limited to many other chores and tasks

Labor Day is looking to be a busy one with all of our transient slips already pre-reserved. Things should slow down after Labor Day and I expect to see a few busy weekends in September (weather permitting) before customers start pulling their boats for winter storage.

I have started putting together a 2021 facility and maintenance report. This report is a resource on current conditions of marina equipment, buildings and grounds. It also acts a foundation for future maintenance and operational needs.

Recently, I spent time reviewing the marinas revenue and expense report for the 2021 season. Accordingly; I submitted my notes/worksheet on possible CIP budget requests as well as notations on potential changes to other line items.

Three of the marinas ice suppression bubblers have been brought into Graham Electric Motor for repairs. I am hoping that the fix is simple and that we won't need to replace these bubblers. The average cost of one of these bubblers is approximately \$550-\$675 apiece. The marina winterization schedule should be finished within the next week. This schedule should help myself and the DPW with being more efficient with our time in the process of putting the marina away for the winter.

I have been communicating with Cody from Floatation Docking about the costs and feasibility of using the old head piers from the marina and converting them into wave attenuators. The end docks on the north side of the harbor often get a little bouncy. By adding a wave attenuation system, we could help reduce the movement of this section of the harbor. I am still waiting on numbers.

The Michigan Department of Licensing and Regulatory Affairs (LARA) inspected our fuel system earlier this month. This inspection happens randomly every year. We passed, and got an extra thumbs up for our well-organized binder of records and fuel system maintenance.

Sincerely,

Edie Aylsworth, Harbor Master

To: Rob Larrea
Dave Miller

From: Mark Huggard, **Jacobs**

Date: September 1, 2021

Copy: Kevin Dahl, **Jacobs**
Elizabeth Hart, **Jacobs**

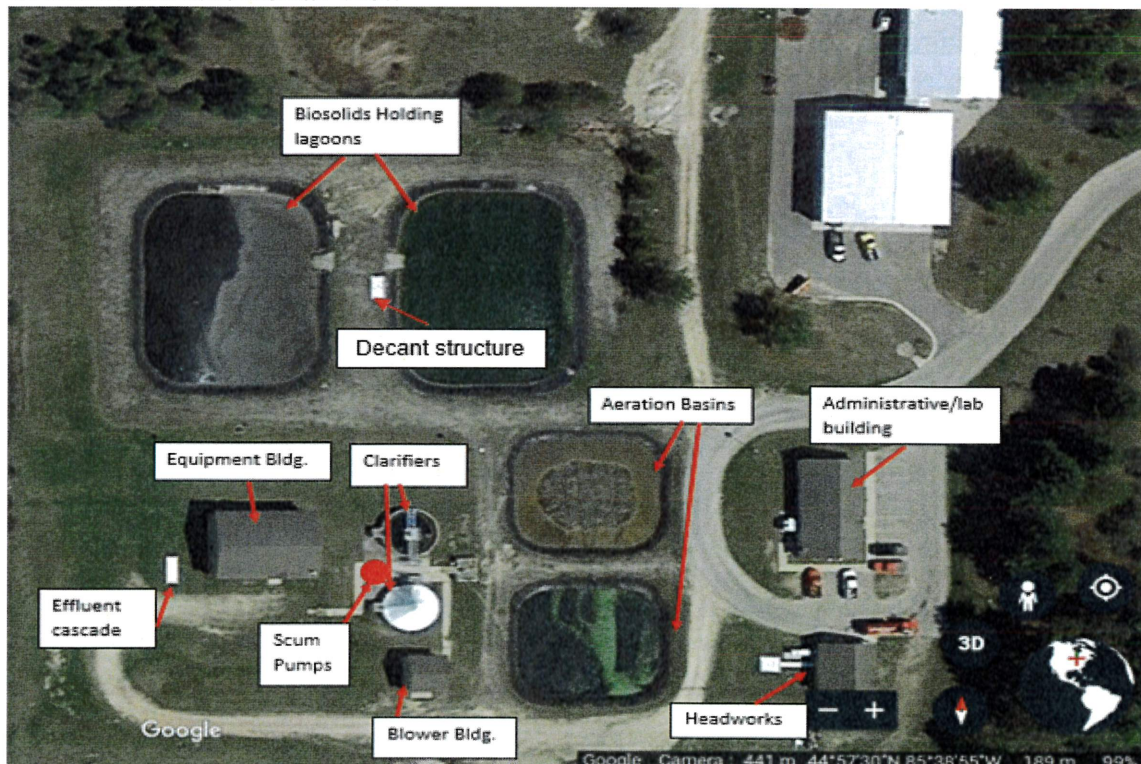
This report describes our activities during the month of August 2021. If there is additional information you would like included in the report, please let us know.

Permit compliance:

Available lab results for the month of August indicate full permit compliance.

Jacobs completed and submitted July's Discharge Monitoring Report (DMR) to the Michigan Department of Environment, Great Lakes, and Energy (EGLE). The facility was in full compliance.

Treatment Plant Aerial View



Operations:

August Flow Report

Average Influent Flow 2021*	0.147	Million Gallons per day
Average Influent Flow 2020	0.189	Million Gallons per day
Total monthly hauled truck waste 2021*	250,350	Gallons
Total monthly hauled truck waste 2020	142,400	Gallons

*Data through August 29th.

On Monday August 9th, we responded to an Ultraviolet (UV) bank B failure. The alarm had cleared before our arrival and bank B was on and operating correctly. The alarm may have been caused by a brief loss of power.

On Tuesday August 10th, we responded to the facility because of a power outage caused by heavy storms. The plant was monitored until line power was restored, then a full plant assessment was conducted to ensure all equipment was operating properly before leaving.

We replaced broken bolts on the coarse screen rake arm. We suspect the screen received a large load of material/debris that bound the rake assembly putting strain on the mounting bolts resulting in their failure.

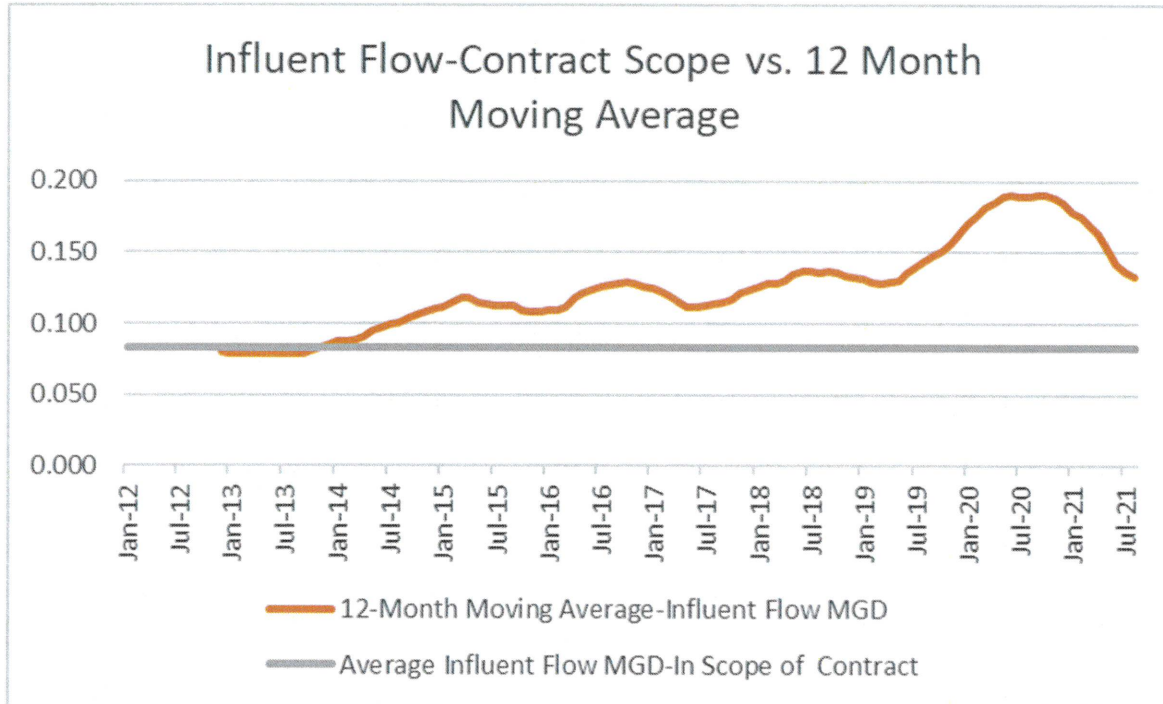
On the Horizon:

- PFAS second round sampling. Includes influent, effluent and both biosolids basins. (2021)
- Installation of new clarifier #2 drive motor. (2021)
- Install new RAS and WAS pumps. (2021)
- Install an Uninterrupted Power Supply (UPS) on the UV system. (2022)
- Repair leaking yard valve by clarifiers. (Spring 2022)
- Install SCADA alarm system failure monitoring and phone line monitoring system. (will be added to SCADA system upgrade as part of CIP project)

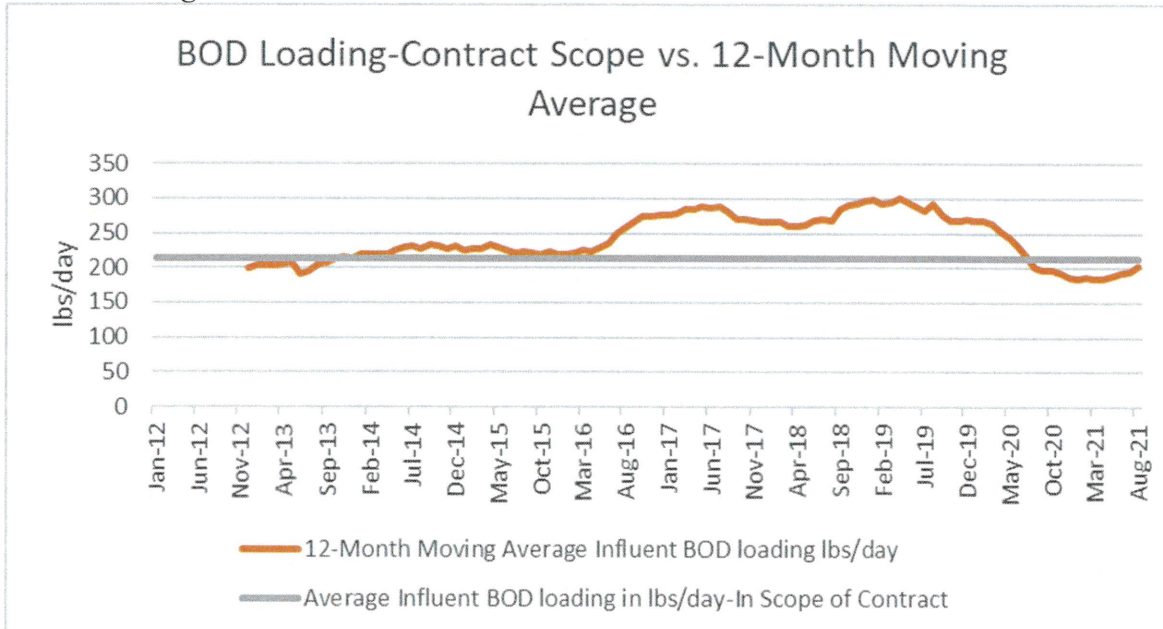
Plant Influent and Effluent Trends:

The following graphs illustrate the facility’s influent characteristics encompassed in our scope, per Amendment 3 to our 2010 agreement, compared to actual influent characteristics. Influent flow characteristics are based on a 12-month moving average.

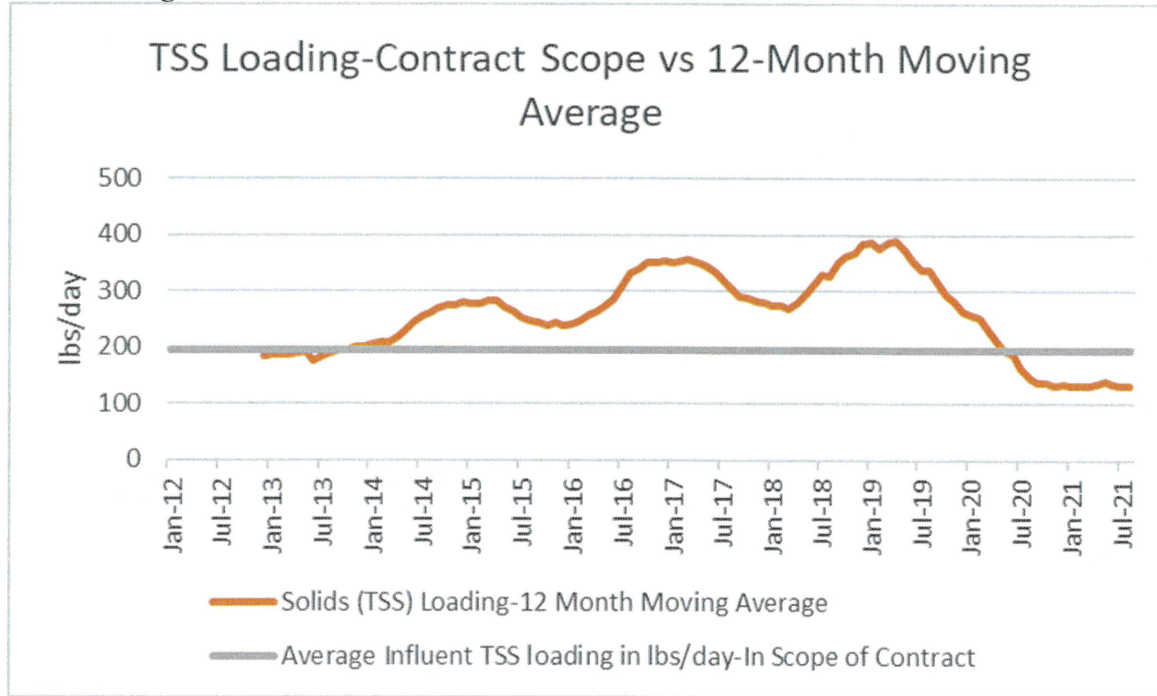
Influent Flow



BOD Loading

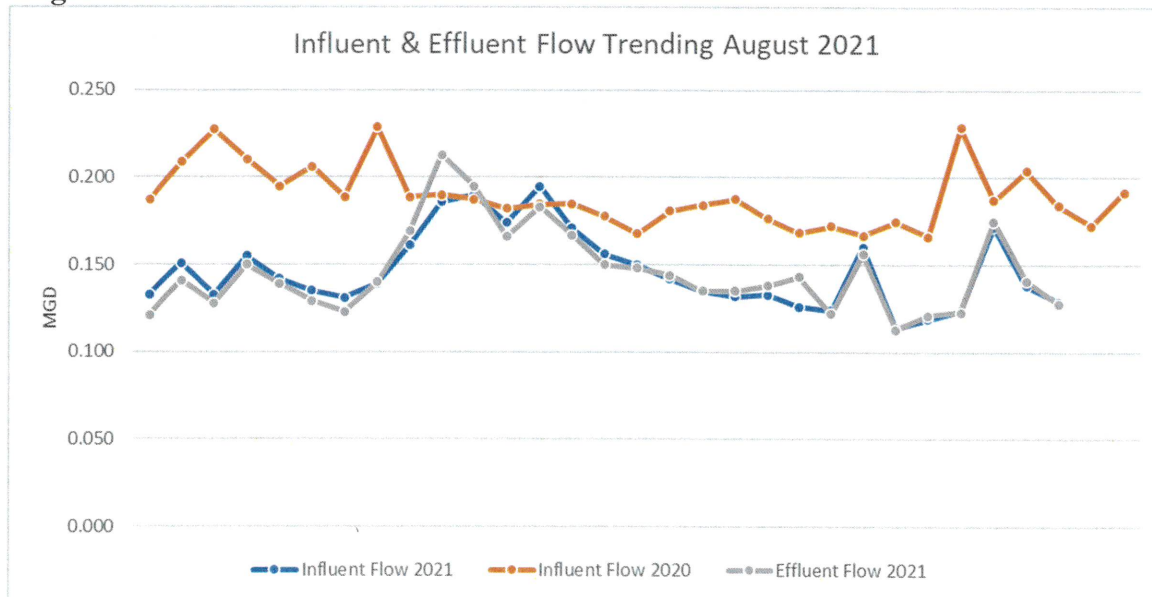


TSS loading



The following plant flow graph illustrates the facilities current influent and effluent flow trend for the reporting month and the influent flow for the same month of the previous year. The 2021 spike in flow noticed towards the middle of the month was due to a heavy rain event. The NPDES permit limit table details the monthly average permit limits for each parameter, the graph below this table illustrates the available parameter concentrations for the reported month.

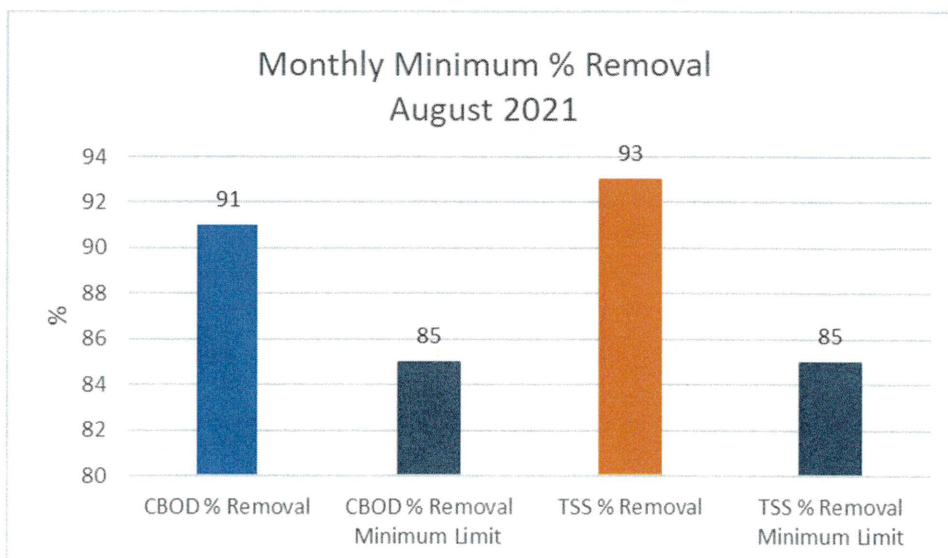
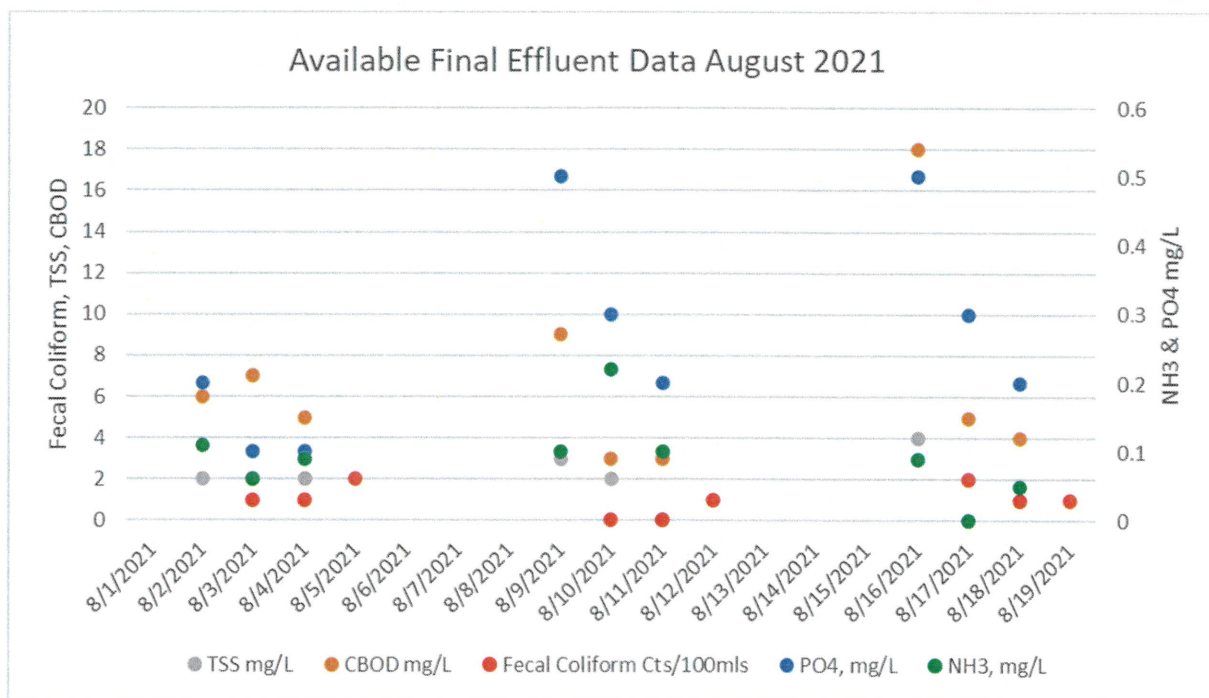
August Plant Flows



NPDES permit limits

Parameters	Monthly average	7-day average
Total Suspended Solids	30 mg/L	45 mg/L
Fecal Coliform	200 counts/100 mLs	400 counts/100 mLs
Carbonaceous Biochemical Oxygen Demand	25 mg/L	40 mg/L
Total Phosphorus, PO4	0.5 mg/L	No Limit
Ammonia, NH3	Report only, no limit	Report only, no limit
CBOD % Minimum Removal	85%	NA
TSS % Minimum Removal	85%	NA

August Effluent Data



Financial Report

Current Month	Aug-21	Comments
Current Month Repairs	\$ -	
Current Month Repair Labor Hrs	-	
Current Month Chemicals	\$ -	
Current Month Utilities	\$ 2,750.69	Electricity - \$2,555.09 (May 20th - June 20th) Gas - \$195.60 (June 17th - July 16th)
YTD Repairs	\$ 8,028.80	
Repair Budget Remaining (\$6,000 Limit)	\$ (2,028.80)	Amount over budget
YTD Repair Labor Hrs	191.06	
Repair Labor Hrs Remaining (Limit 104 hrs)	\$ (87.06)	Amount over on labor hours
YTD Chemicals	\$ 5,215.80	
Chemical Budget Remaining (\$5,500 Limit)	\$ 284.20	Amount under budget
YTD Utilities	\$ 17,959.92	
Utility Budget Remaining (\$33,000 Limit)	\$ 15,040.08	

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