

**GRAND RAPIDS  
PUBLIC UTILITIES**

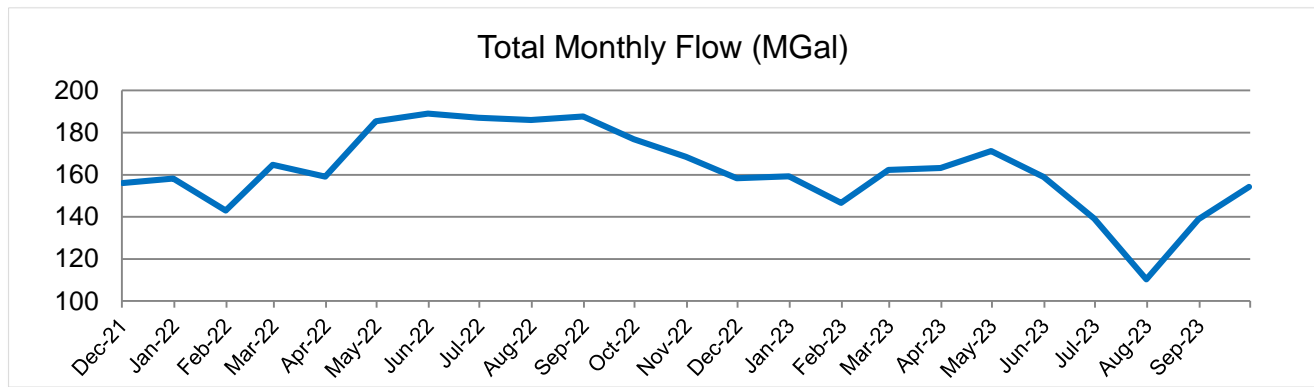
*Service is Our Nature*

500 SE Fourth Street • Grand Rapids, Minnesota 55744

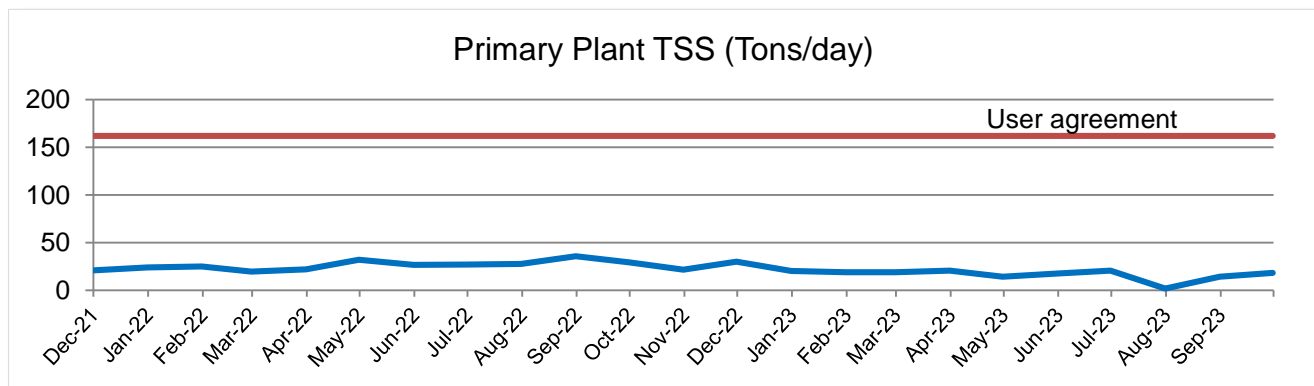
## WASTEWATER UTILITY MONTHLY REPORT November 2023 Commission Meeting

### Wastewater Operations

The Wastewater Treatment Plant (WWTP) met all National Pollutant Discharge Elimination System (NPDES) permit requirements last month. We treated 154 million gallons of water removing 99.8% of the Total Suspended Solids (TSS) and 99.1% Biochemical Oxygen Demand (cBOD).



	Design Limits (monthly AVG)	Actual Results
<u>Primary Plant</u>		
Flow (MGD)	13.25	3.6
TSS (Tons/day)	162	18.4
TSS Peak (Tons/Day)	284	51.6

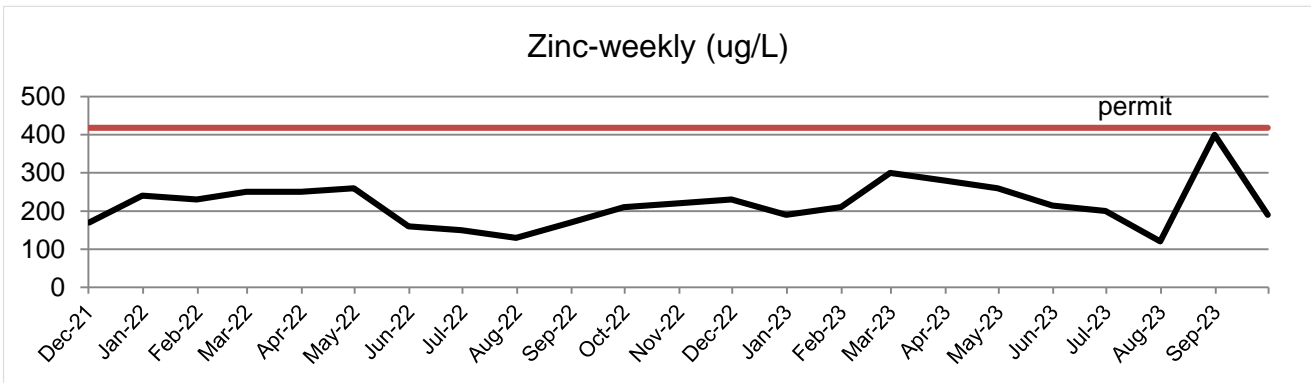
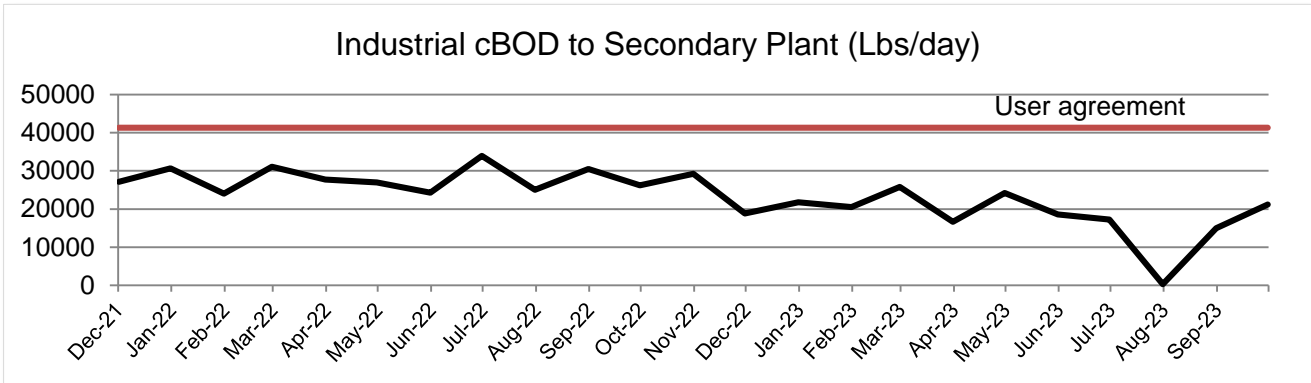


Design Limits  
(monthly AVG)

Actual Results

Secondary Plant

Flow (MGD)	15.25	5.0
cBOD (lbs/Day)	41,300	25,147
Peak cBOD (lbs/Day)	57,350	37,361
Zinc-weekly (ug/L)	418	190
% GRPUC		30.0% (min)

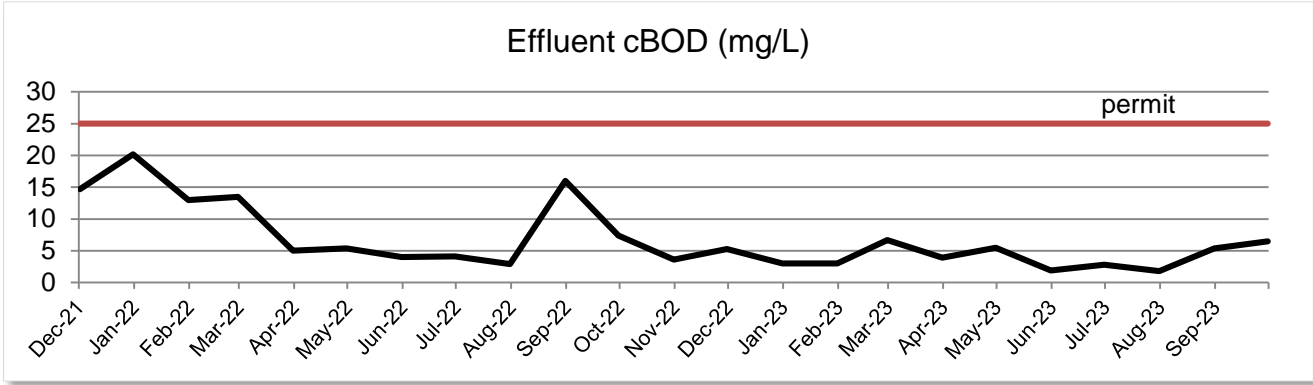
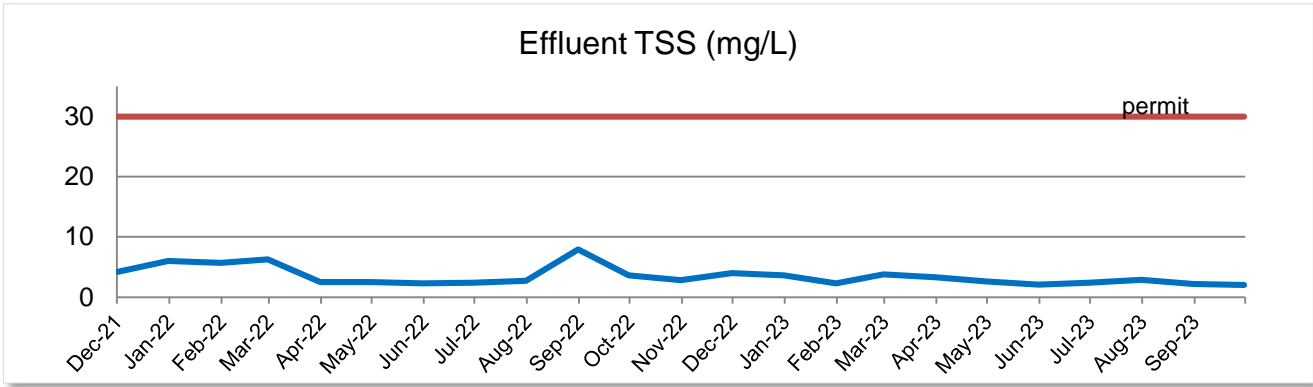


Permit Limits  
(monthly AVG)

Actual Results

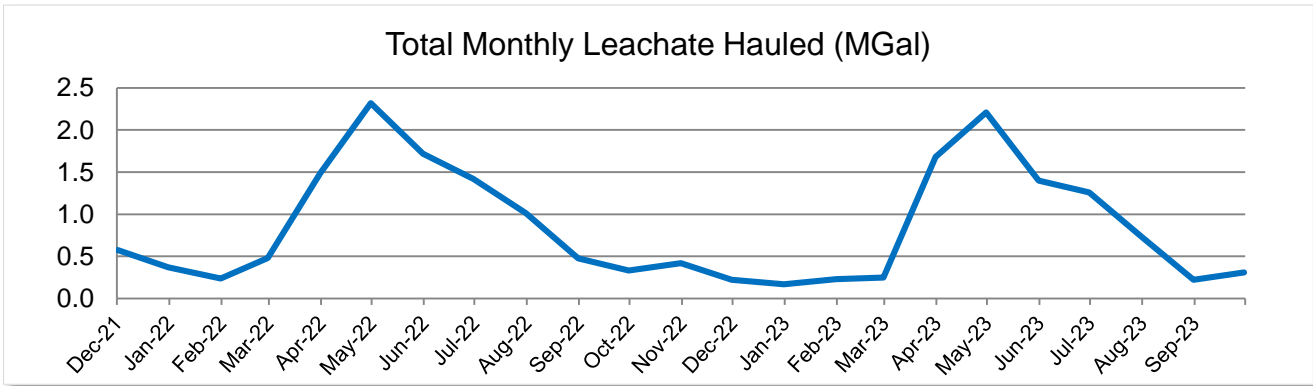
Effluent

TSS (mg/L) – monthly average	30	2.0
cBOD (mg/L) – monthly average	25	6.5
Dissolved Oxygen (mg/L)	>1.0	6.9



## **Sludge Landfill Operations**

- 0.31 million gallons of leachate were hauled last month.
- 3408 cubic yards of sludge solids were hauled to the landfill



# Capital and Operations Project Summary

COMMISSION REPORT CONTENTS									
Agency Lead	Dept	Proj Desc	Proj #	Budget	Amount Spent	Percent Spent (calc'd)	Percent Complete	Status	Noted Issues / Highlights
City	WWC	Sylvan Overlays	WWCO2310	\$1,010,000	\$0	0%	100%	Completed	
GRPU	WWC	Category 1 - Piping Repairs	WWCO2308	\$350,000	\$0	0%	0%	Not Started	Placeholder
City	WWC	River Road Roundabout	WWCO2312	\$210,959	\$0	0%	100%	Completed	
GRPU	WWC	Jetting		\$150,000	\$82,000	55%	85%	In Progress	Close to complete.
GRPU	WWC	Jetting Camera	WWCO2303	\$60,000	\$55,000	92%	100%	Completed	
City	WWC	6th Ave NW (4th-5th)	WWCO2302	\$52,000	\$0	0%	0%	Not Started	Pushed until later date.
GRPU	WWC	Lift Station 2 - Generator and Switch	WWCO2207	\$36,490	\$36,490	100%	95%	In Progress	Parts onsite, work scheduled for 2024
GRPU	WWC	Lift Station Pumps	WWCO2005	\$35,000	\$34,460	98%	100%	Completed	
GRPU	WWC	Lift Station 8 Controls Update	WWCO2601	\$35,000	\$20,250	58%	60%	Completed	
GRPU	WWC	Lift Station 6 I/I Repairs	WWCO2307	\$35,000	\$5,520	16%	60%	Completed	Completed for now.
GRPU	WWC	Lift Station 9 Controls Update	WWCO2304	\$35,000	\$19,250	55%	60%	Completed	
GRPU	WWC	Lift Station 3 - Generator and Switch	WWCO2208	\$32,825	\$32,825	100%	95%	In Progress	Parts onsite, work scheduled for 2024
GRPU	WWC	Lift Station 2 Pump	WWCO2305	\$25,000	\$22,800	91%	100%	Completed	
GRPU	WWC	Clinic Lift Alarm Agent	WWCO2103	\$20,000	\$8,085	40%	90%	Completed	
GRPU	WWC	Manhole Replacements	WWCO1805	\$20,000	\$0	0%	0%	Not Started	Placeholder
GRPU	WWC	Mains and Services	WWCO1804	\$15,000	\$0	0%	0%	Not Started	Placeholder
GRPU	WWC	Lift Station 2 Flow Meter	WWCO2309	\$8,000	\$0	0%	0%	Not Started	Pushed to 2024
GRPU	WWT	Septic Hauler Dump Station	WWS2301	\$350,000	\$0	0%	0%	Not Started	Pushed to 2024
GRPU	WWT	Landfill Cover Work Ph 1-4, Ket D	WWS2301	\$250,000	\$23,940	10%	90%	In Progress	Engineering completed, permit revision in process
GRPU	WWT	Secondary Aeration Basin Mixer Re	WWS21804	\$175,000	\$35,000	20%	55%	In Progress	Work still scheduled.
GRPU	WWT	Rebuild Domestic Screen	WWS21801	\$150,000	\$108,625	72%	100%	Completed	
GRPU	WWT	Replace Fiber ASV to CSC	WWS2301	\$54,000	\$0	0%	0%	Not Started	Pushed based on security project.
GRPU	WWT	Bleach Tank Replacement	WWS2302	\$50,000	\$49,054	98%	100%	Completed	
GRPU	WWT	Sludge Screw Conveyor - Screw	WWS2103	\$50,000	\$0	0%	50%	In Progress	Parts in, work to be scheduled.
GRPU	WWT	Demo of old Primary Plant	WWS2001	\$50,000	\$0	0%	0%	Not Started	Pushed until later date.
GRPU	WWT	Trash Compactor	WWS2302	\$50,000	\$0	0%	20%	In Progress	Pushed until 2024
GRPU	WWT	Painting Primary Clarifiers	WWS2003	\$40,000	\$30,185	75%	100%	Completed	
GRPU	WWT	Primary Plant Sludge Pumps	WWS2303	\$28,000	\$19,156	68%	50%	In Progress	Parts in, work to be scheduled.
GRPU	WWT	Primary Sludge Pump VFD	WWS2301	\$24,000	\$0	0%	0%	Not Started	Pushed until 2024
GRPU	WWT	Landfill Phase Pumps	WWS2302	\$18,000	\$0	0%	0%	Not Started	Pushed until 2024
GRPU	WWT	Forks for Front End Loader	WWS2202	\$12,000	\$9,500	79%	100%	Completed	
GRPU	WWT	Replace Fiber Segment 1	WWS2302	\$12,000	\$0	0%	0%	Not Started	Pushed based on security project.
GRPU	WWT	VFD Upgrades for Lift Pumps	WWS2301	\$12,000	\$0	0%	15%	In Progress	Pushed until 2024
GRPU	WWT	Leachate Phase Pump	WWS2101	\$8,000	\$0	0%	0%	Not Started	Pushed until 2024
GRPU	WWT	Screw Press VFD	WWS2302	\$8,000	\$0	0%	0%	Not Started	Pushed until 2024
GRPU	WWT	Flow Meter for Domestic Flow	WWS2301	\$7,000	\$0	0%	0%	Not Started	Pushed until 2024
GRPU	WWT	WWTP Alarm Agent	WWS2304	\$6,500	\$6,000	92%	85%	Completed	

## Status Definitions

- Not Started - no human or financial resources utilized
- In Progress - time or money spent on the project
- In Service - operational but final close out needed
- Completed - done and closed out
- On Hold - waiting on some type of significant action