

**GRAND RAPIDS
PUBLIC UTILITIES**

Service is Our Nature

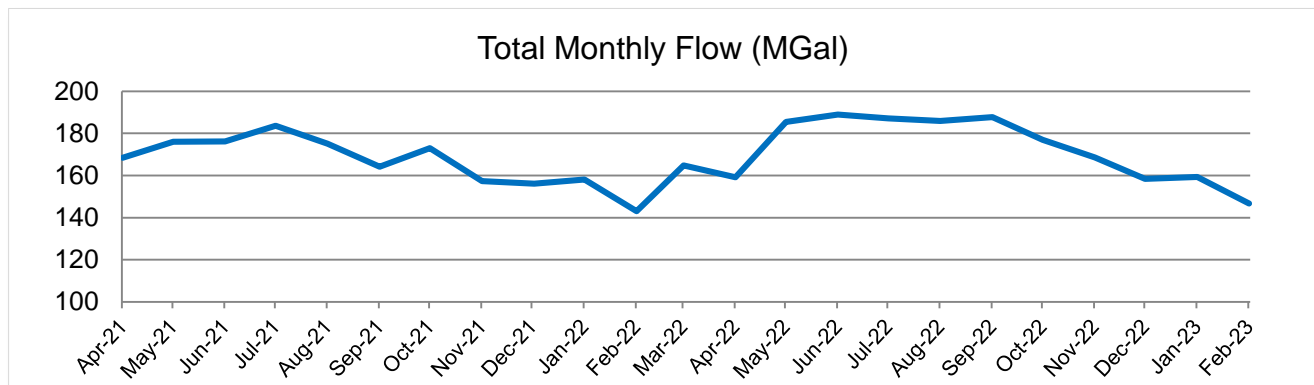
500 SE Fourth Street • Grand Rapids, Minnesota 55744

WASTEWATER UTILITY MONTHLY REPORT March 2023 Commission Meeting

Wastewater Operations

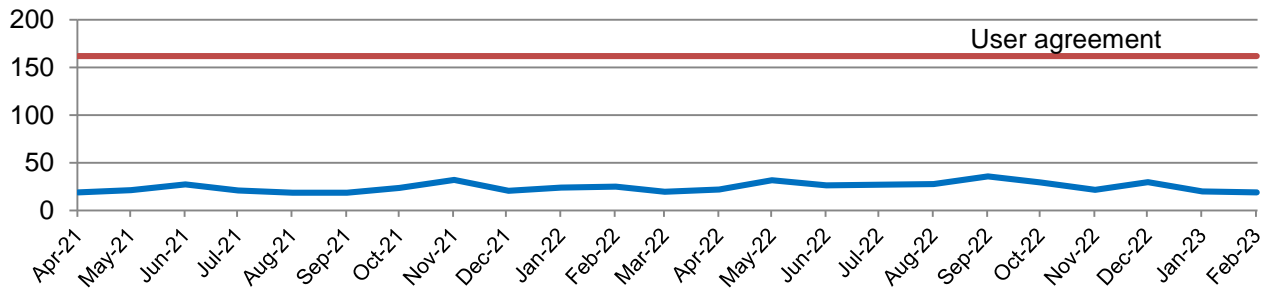
The Wastewater Treatment Plant (WWTP) met all National Pollutant Discharge Elimination System (NPDES) permit requirements last month. We treated 147 million gallons of water removing 99.7% of the Total Suspended Solids (TSS) and 99.6% Biochemical Oxygen Demand (cBOD).

First round of PFAS sampling will be on Friday March 10th with the aid of Pace Labs



	Design Limits (monthly AVG)	Actual Results
<u>Primary Plant</u>		
Flow (MGD)	13.25	4.0
TSS (Tons/day)	162	18.9
TSS Peak (Tons/Day)	284	30.5

Primary Plant TSS (Tons/day)

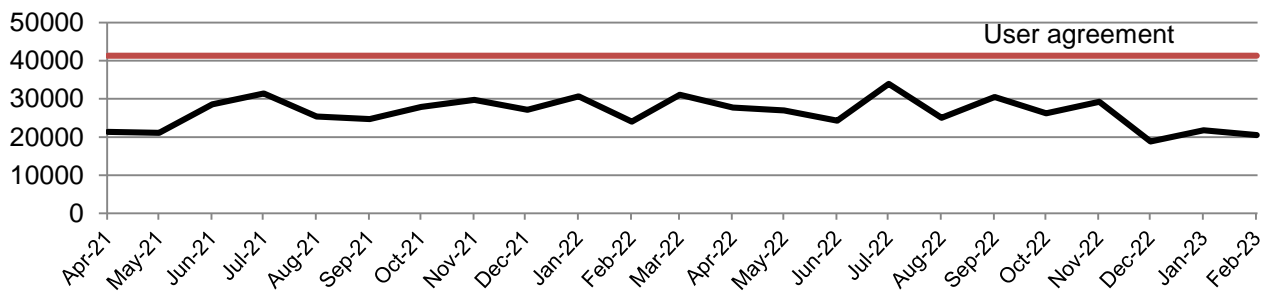
Design Limits
(monthly AVG)

Actual Results

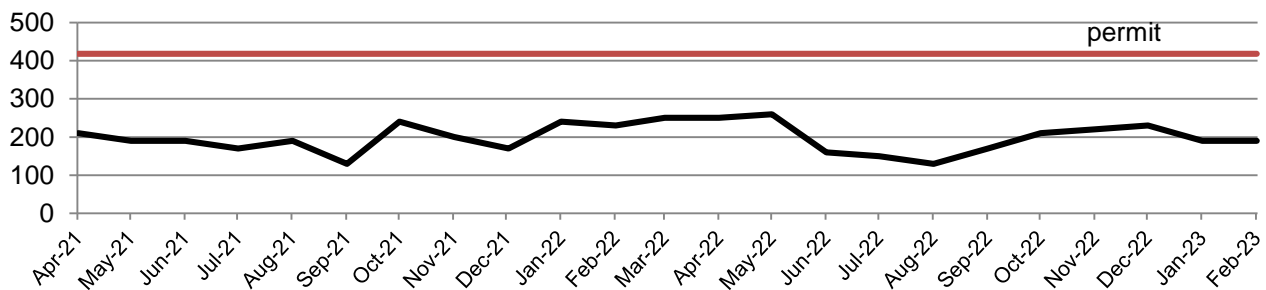
Secondary Plant

Flow (MGD)	15.25	5.2
cBOD (lbs/Day)	41,300	23,279
Peak cBOD (lbs/Day)	57,350	35,293
Zinc-weekly (ug/L)	418	190
% GRPUC		27.7%

Industrial cBOD to Secondary Plant (Lbs/day)



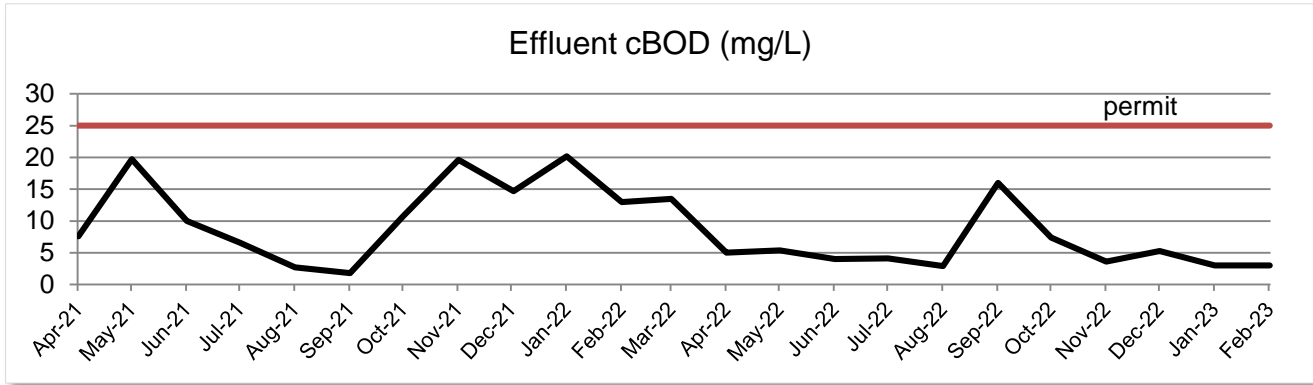
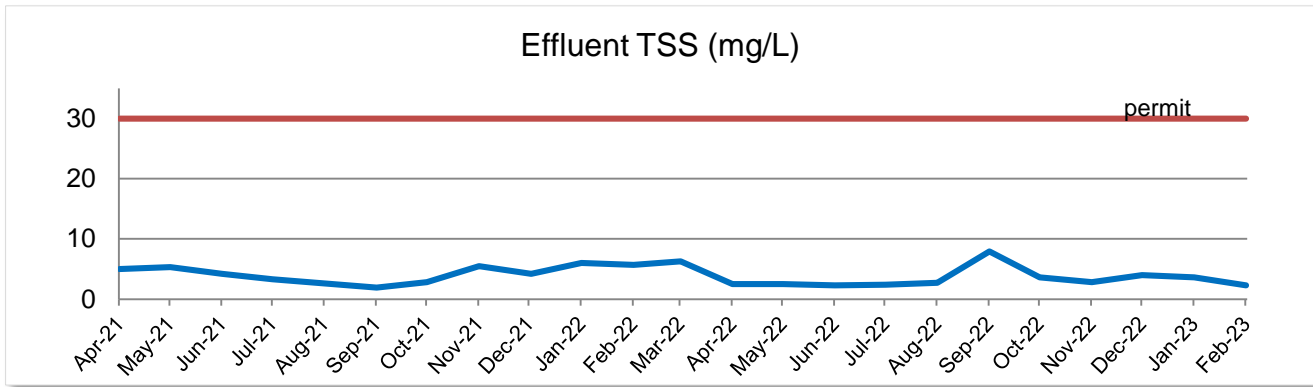
Zinc-weekly (ug/L)

Permit Limits
(monthly AVG)

Actual Results

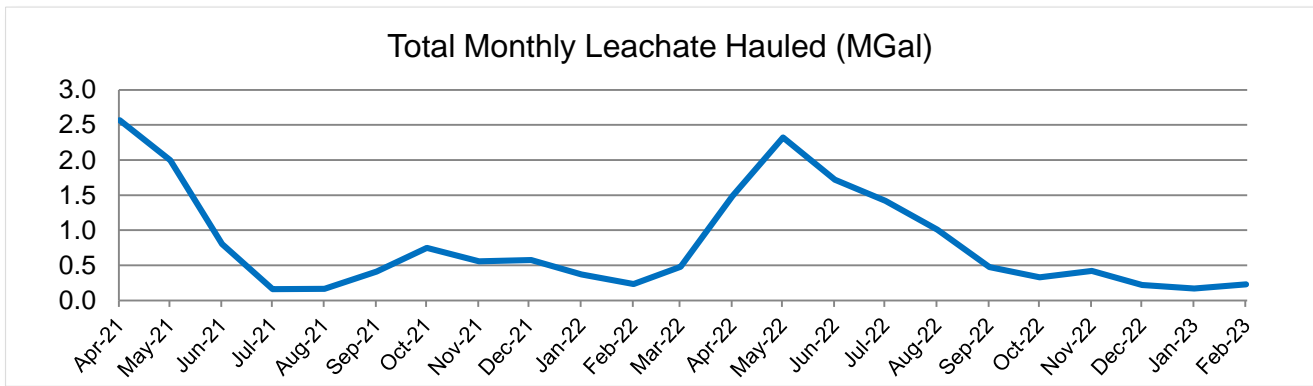
Effluent

TSS (mg/L) – monthly average	30	2.3
cBOD (mg/L) – monthly average	25	3.0
Dissolved Oxygen (mg/L)	>1.0	9.4



Sludge Landfill Operations

- 0.23 million gallons of leachate were hauled last month which is typical for the month of January.
- 3,240 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 Complete	Status	Noted Issues / Highlights
City		WWC	Sylvan Overlays	WWCO2310	\$1,010,000	\$0	0%	Not Started	
GRPU		WWC	Category 1 - Piping Repairs	WWCO2308	\$350,000	\$0	0%	Not Started	
City		WWC	River Road Roundabout	WWCO2312	\$210,959	\$0	0%	Not Started	
GRPU		WWC	Jetting		\$150,000	\$0	0%	Not Started	
GRPU		WWC	Jetting Camera	WWCO2303	\$60,000	\$55,000	15%	In Progress	
City		WWC	6th Ave NW (4th-5th)	WWCO2302	\$52,000	\$0	0%	Not Started	
GRPU		WWC	Lift Station 2 - Generator and Switch	WWCO2207	\$36,490	\$0	10%	In Progress	
GRPU		WWC	Lift Station Pumps	WWCO2005	\$35,000	\$0	0%	Not Started	
GRPU		WWC	Lift Station 8 Controls Update	WWCO2601	\$35,000	\$0	0%	Not Started	
GRPU		WWC	Lift Station 6 I/I Repairs	WWCO2307	\$35,000	\$0	0%	Not Started	
GRPU		WWC	Lift Station 9 Controls Update	WWCO2304	\$35,000	\$0	0%	Not Started	
GRPU		WWC	Lift Station 3 - Generator and Switch	WWCO2208	\$32,825	\$0	10%	In Progress	
GRPU		WWC	Lift Station 2 Pump	WWCO2305	\$25,000	\$0	0%	Not Started	
GRPU		WWC	Clinic Lift Alarm Agent	WWCO2103	\$20,000	\$8,085	25%	In Progress	
GRPU		WWC	Manhole Replacements	WWCO1805	\$20,000	\$0	0%	Not Started	
GRPU		WWC	Mains and Services	WWCO1804	\$15,000	\$0	0%	Not Started	
GRPU		WWC	Lift Station 2 Flow Meter	WWCO2309	\$8,000	\$0	0%	Not Started	
GRPU		WWT	Septic Hauler Dump Station	WWSP2301	\$350,000	\$0	0%	Not Started	
GRPU		WWT	Landfill Cover Work Ph 1-4, Ket D	WWSD2301	\$250,000	\$0	0%	Not Started	
GRPU		WWT	Secondary Aeration Basin Mixer Repa	WWSP1804	\$175,000	\$0	0%	Not Started	
GRPU		WWT	Rebuild Domestic Screen	WWDO1801	\$150,000	\$0	0%	Not Started	
GRPU		WWT	Replace Fiber ASV to CSC	WWSC2301	\$54,000	\$0	0%	Not Started	
GRPU		WWT	Bleach Tank Replacement	WWSP2302	\$50,000	\$29,730	25%	In Progress	
GRPU		WWT	Sludge Screw Conveyor - Screw	WWPP2103	\$50,000	\$0	0%	Not Started	
GRPU		WWT	Demo of old Primary Plant	WWPP2001	\$50,000	\$0	0%	Not Started	
GRPU		WWT	Trash Compactor	WWDO2302	\$50,000	\$0	0%	Not Started	
GRPU		WWT	Painting Primary Clarifiers	WWPP2003	\$40,000	\$0	0%	Not Started	
GRPU		WWT	Primary Plant Sludge Pumps	WWPP2303	\$28,000	\$0	0%	Not Started	
GRPU		WWT	Primary Sludge Pump VFD	WWPP2301	\$24,000	\$0	0%	Not Started	
GRPU		WWT	Landfill Phase Pumps	WWSD2302	\$18,000	\$0	0%	Not Started	
GRPU		WWT	Forks for Front End Loader	WWPP2202	\$12,000	\$0	0%	Not Started	
GRPU		WWT	Replace Fiber Segment 1	WWSH2302	\$12,000	\$0	0%	Not Started	
GRPU		WWT	VFD Upgrades for Lift Pumps	WWSH2301	\$12,000	\$0	0%	Not Started	
GRPU		WWT	Leachate Phase Pump	WWSD2101	\$8,000	\$0	0%	Not Started	
GRPU		WWT	Screw Press VFD	WWPP2302	\$8,000	\$0	0%	Not Started	
GRPU		WWT	Flow Meter for Domestic Flow	WWDO2301	\$7,000	\$0	0%	Not Started	
GRPU		WWT	WWTP Alarm Agent	WWPP2304	\$6,500	\$6,000	25%	In Progress	

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