

GRAND RAPIDS
PUBLIC UTILITIES

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500 SE Fourth Street • Grand Rapids, Minnesota 55744

WATER & WASTEWATER DEPARTMENT MONTHLY REPORT November 2021 Commission Meeting

Safety

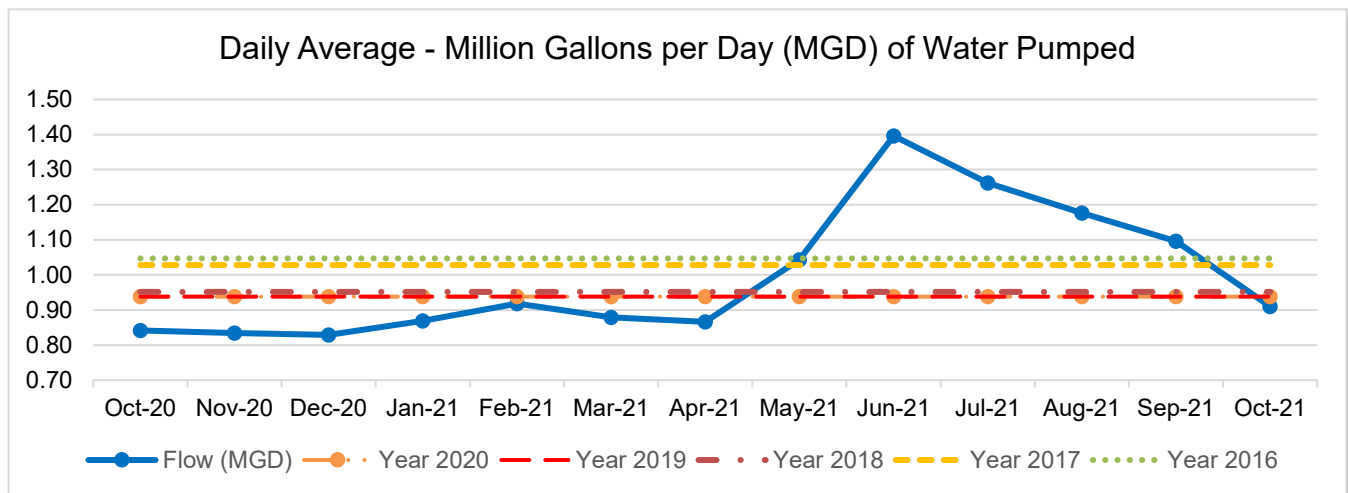
There were no OSHA recordable accidents last month.

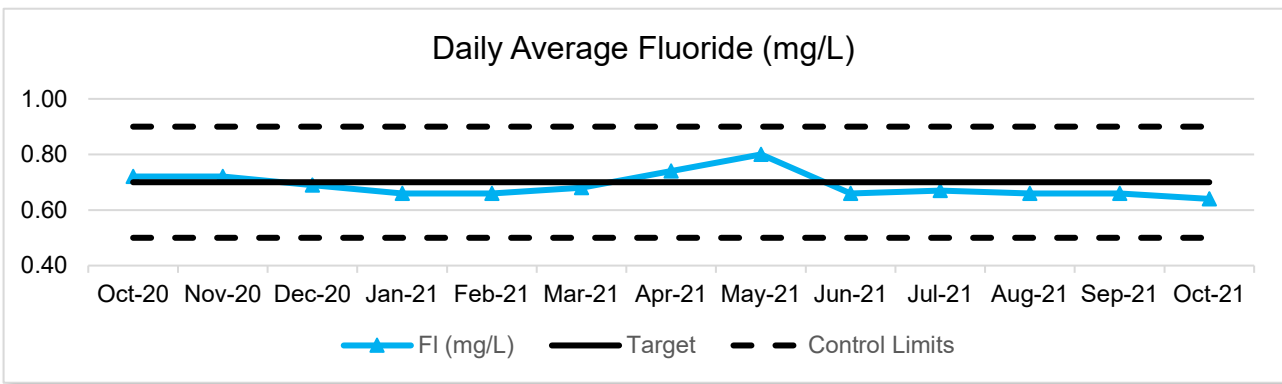
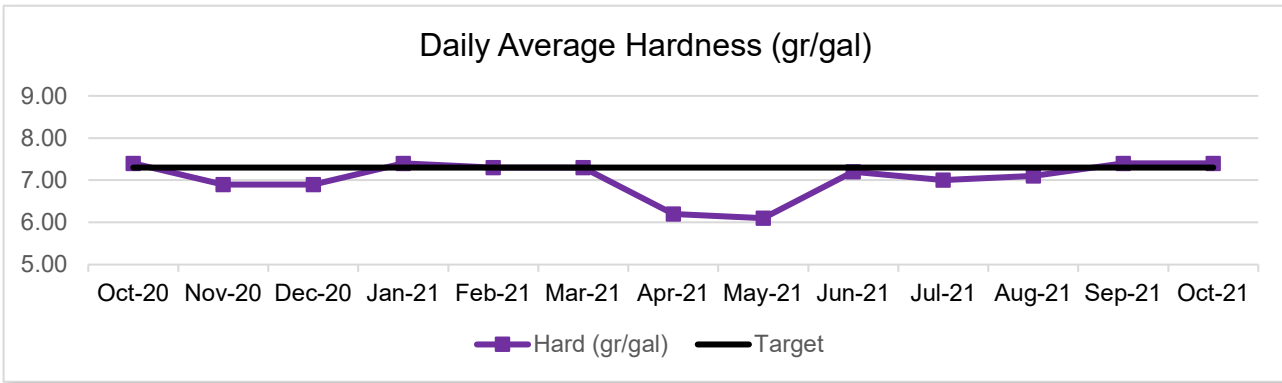
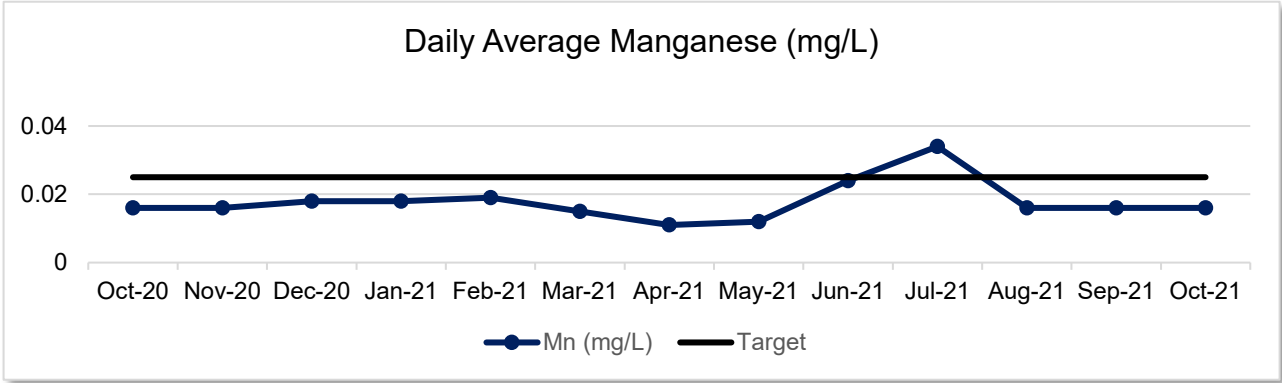
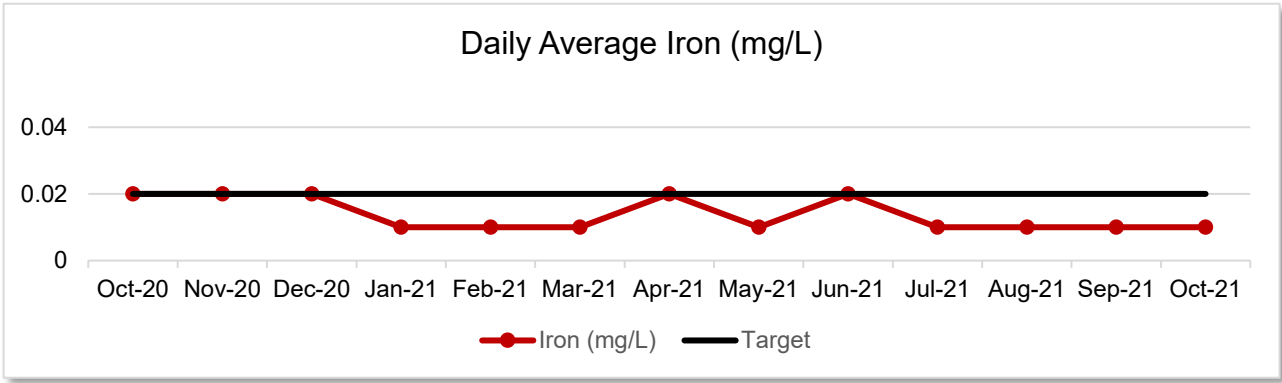
Topic of the Month

Strategy for long-term leachate generation at the landfills.

WTP Operations

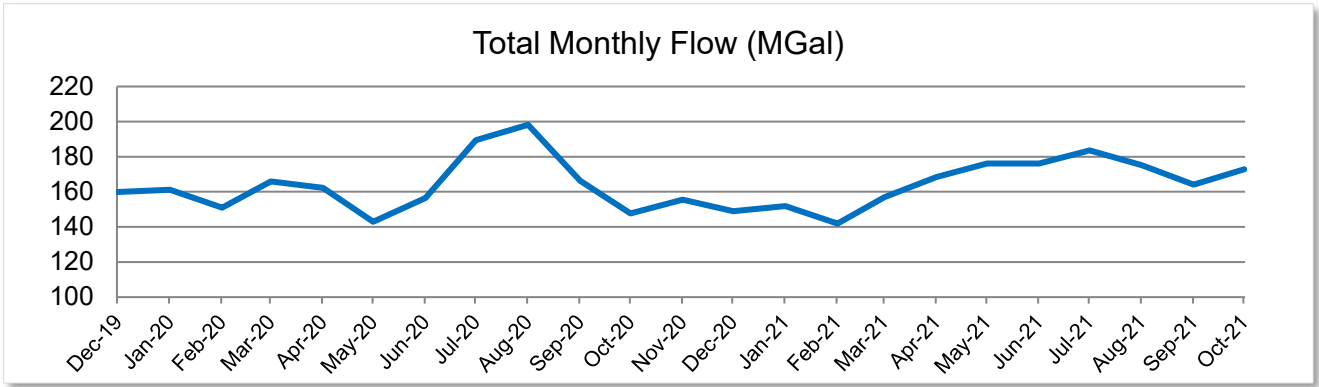
The water plant pumped an average of 0.91 million gallons of water per day (MGD) with a peak of 1.18 million gallons during last month.



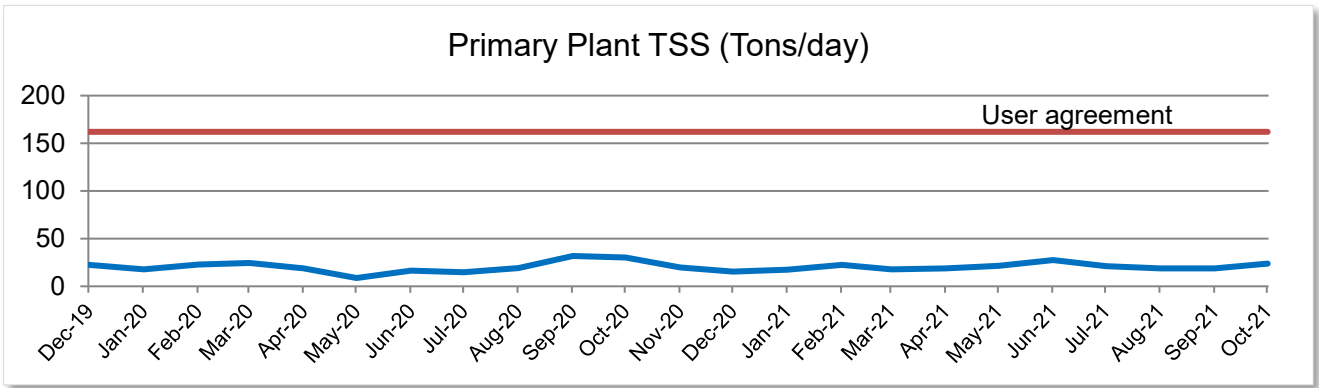


WWTP Operations

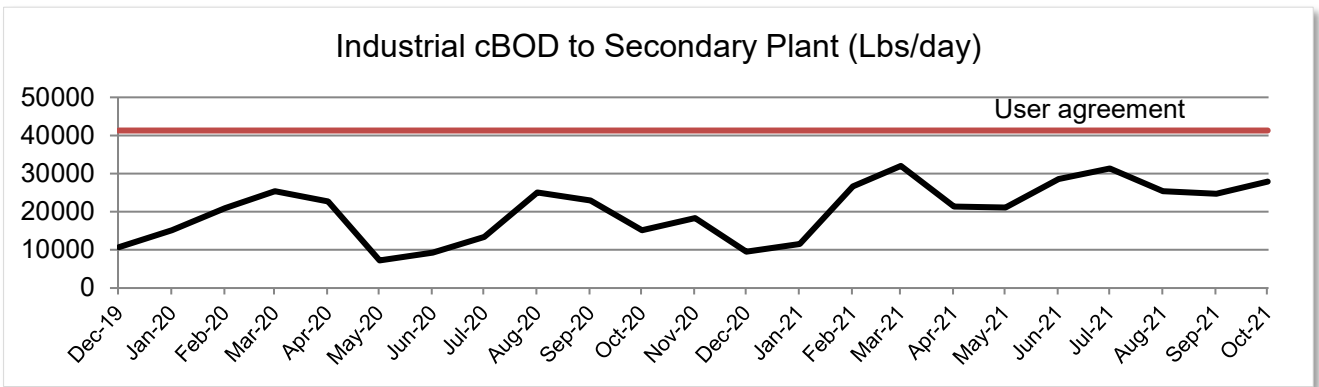
The Wastewater Treatment Plant (WWTP) met all National Pollutant Discharge Elimination System (NPDES) permit requirements last month. We treated 173 million gallons of water removing 99.7% of the Total Suspended Solids (TSS) and 98.8% Biochemical Oxygen Demand (cBOD).

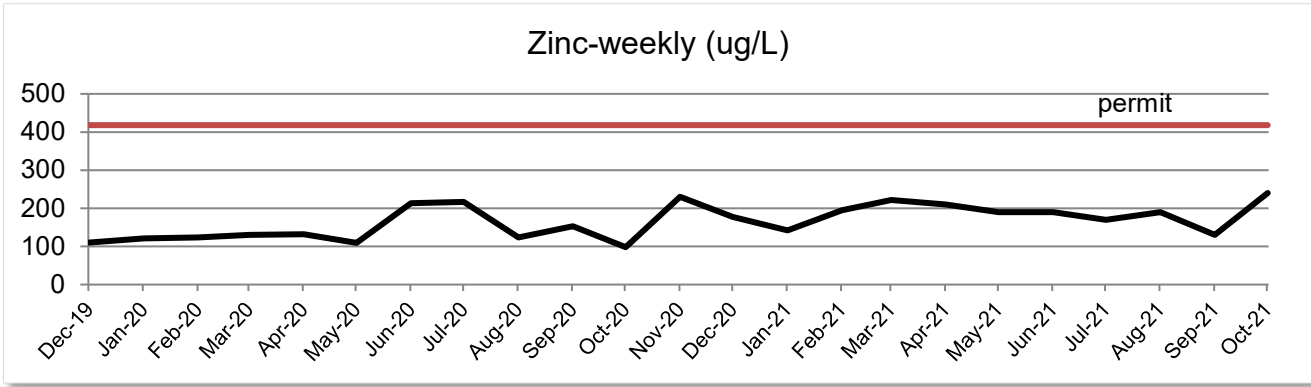


	Design Limits (monthly AVG)	Actual Results
Primary Plant		
Flow (MGD)	13.25	4.4
TSS (Tons/day)	162	23.9
TSS Peak (Tons/Day)	284	50.3

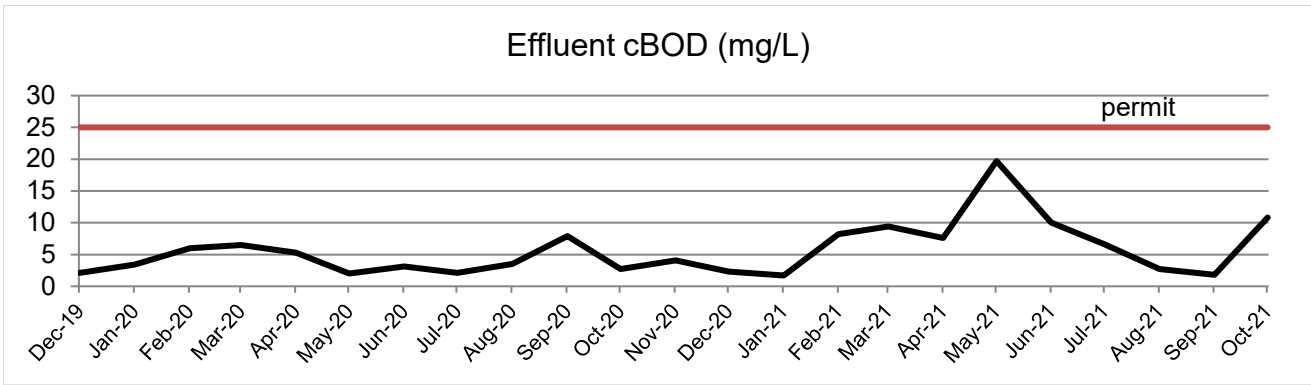
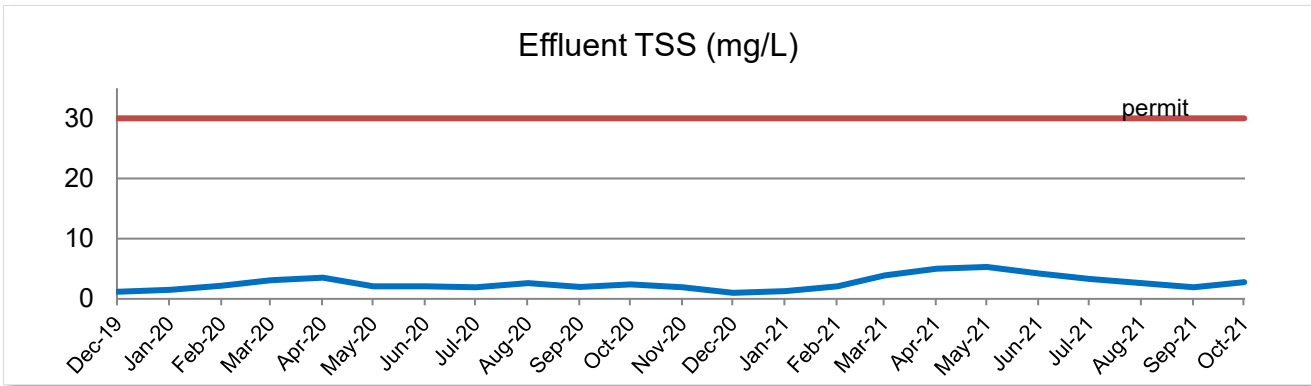


	Design Limits (monthly AVG)	Actual Results
Secondary Plant		
Flow (MGD)	15.25	5.6
cBOD (lbs/Day)	41,300	30,164
Peak cBOD (lbs/Day)	57,350	38,677
Zinc-weekly (ug/L)	418	240
% GRPUC		26.1%



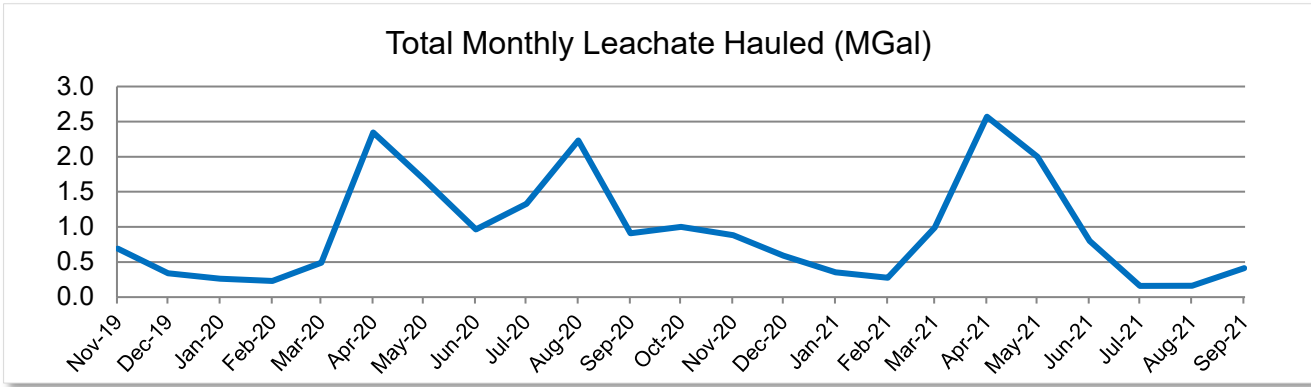


	Permit Limits (monthly AVG)	Actual Results
<u>Effluent</u>		
TSS (mg/L) – monthly average	30	1.9
cBOD (mg/L) – monthly average	25	1.8
Dissolved Oxygen (mg/L)	>1.0	5.6



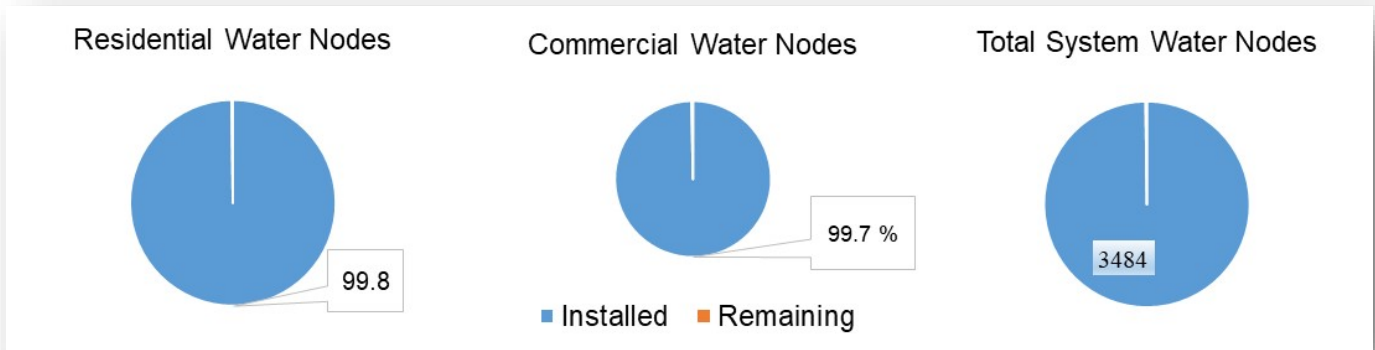
Sludge Landfill Operations

- 0.75 million gallons of leachate were hauled last month
- 4,056 cubic yards of sludge solids were hauled to the landfill



AMI Water Install Last Month

We installed 2 water nodes and/or meters in residential routes. We currently have 3484 (99%) active water nodes installed in the system.



Projects Performed Last Month

- Completed outfall pipe improvements capital project
- Completed WAS 7b pump improvements capital project
- Completed internal shelter project for south water tower.

Projects Scheduled for This Month

- Rebuild KSB 5 Hp lift station pump
- Install new lift pump in number 1 lift station.
- Rebuild screen house pump