

GRAND RAPIDS  
PUBLIC UTILITIES

*Service is Our Nature*

500 SE Fourth Street • Grand Rapids, Minnesota 55744

## WATER & WASTEWATER DEPARTMENT MONTHLY REPORT December 2021 Commission Meeting

### Safety

There were no OSHA recordable accidents last month.

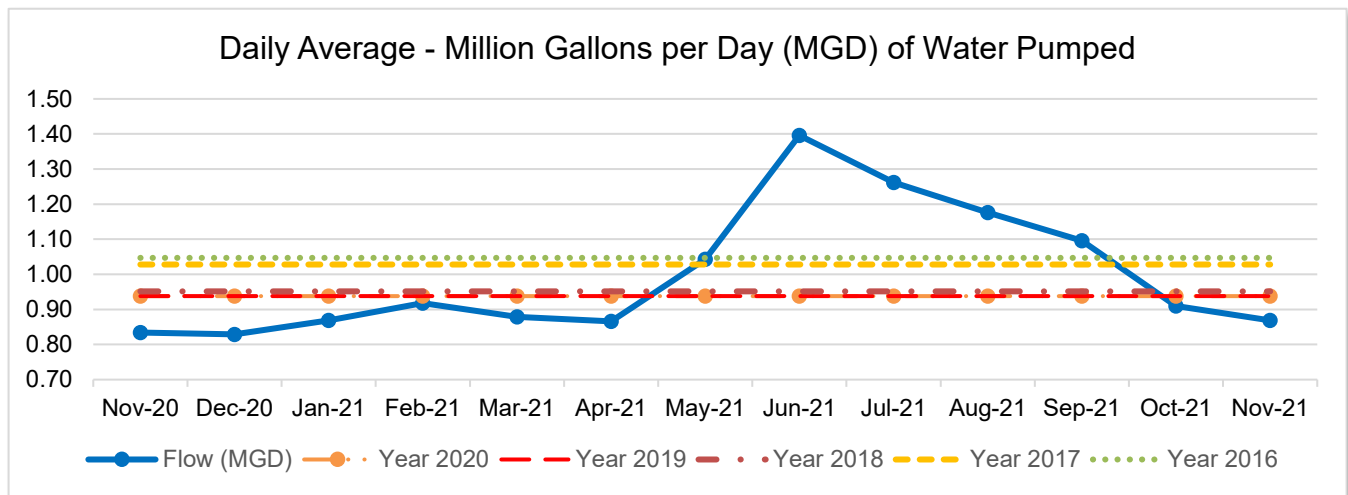
### Topic of the Month

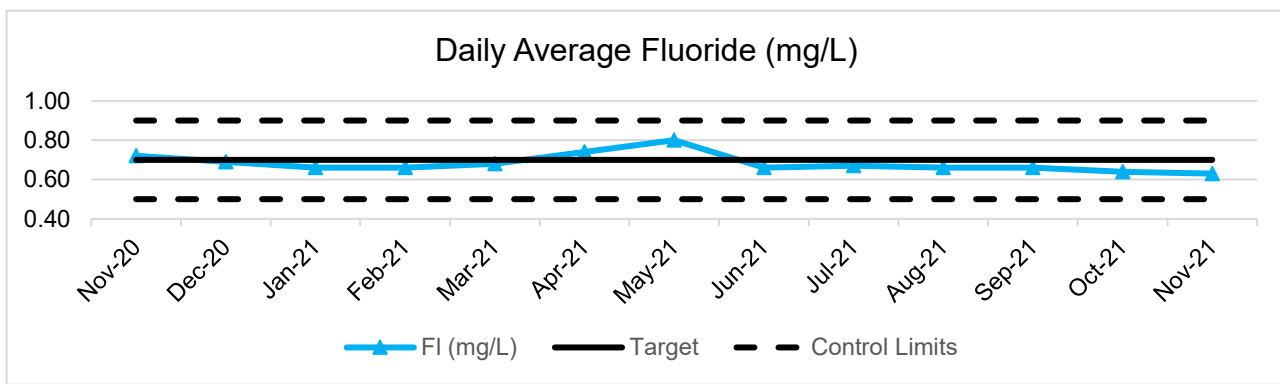
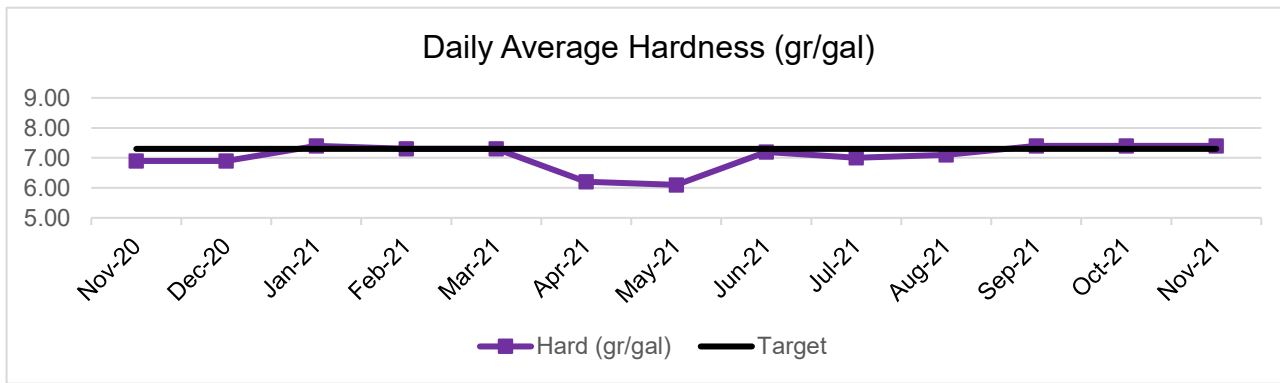
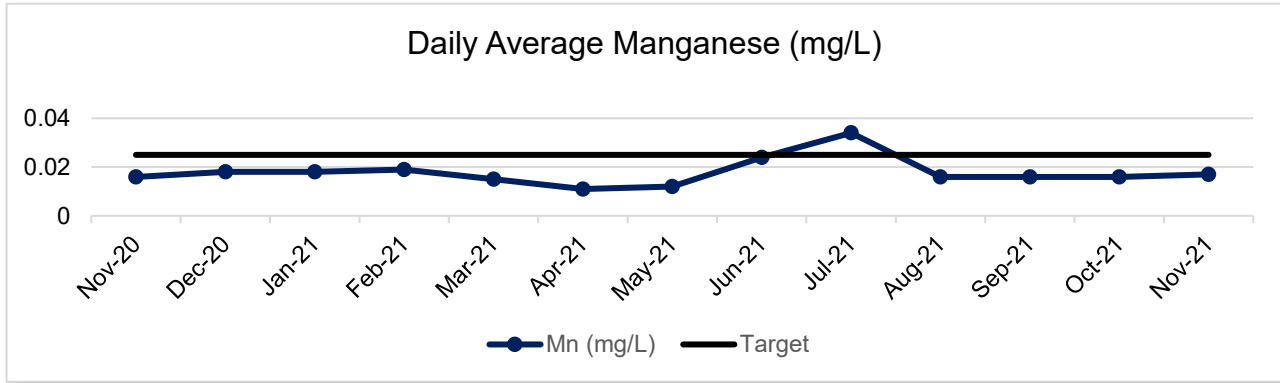
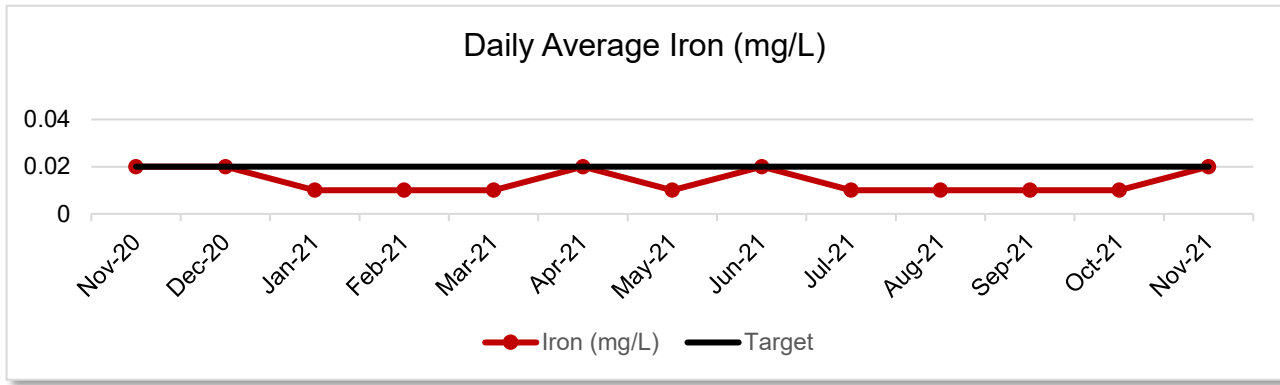
AMI – Water node installation project update

### WTP Operations

The water plant pumped an average of 0.87 million gallons of water per day (MGD) with a peak of 1.19 million gallons during last month.

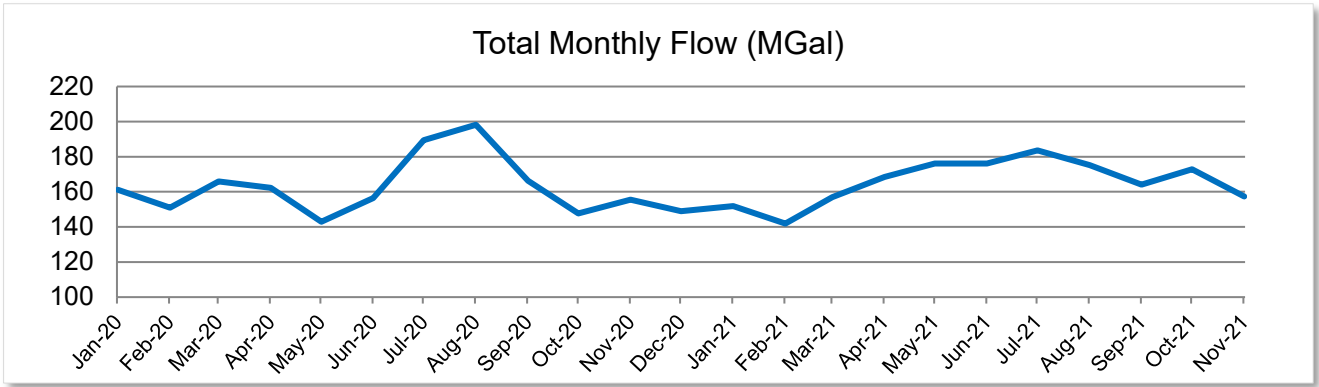
Water main break near Grand Village – lost 100,000 gallons



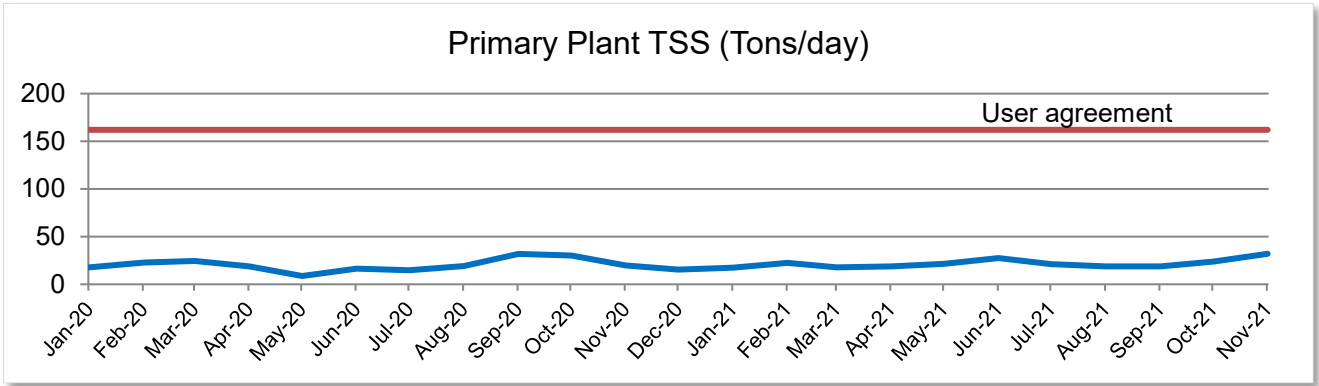


## WWTP Operations

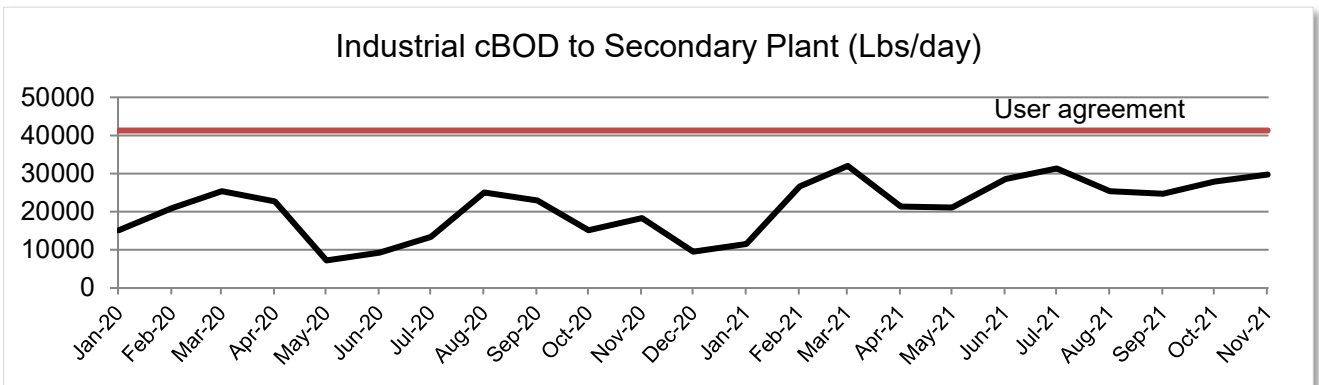
The Wastewater Treatment Plant (WWTP) met all National Pollutant Discharge Elimination System (NPDES) permit requirements last month. We treated 157 million gallons of water removing 98.4% of the Total Suspended Solids (TSS) and 97.6% Biochemical Oxygen Demand (cBOD).

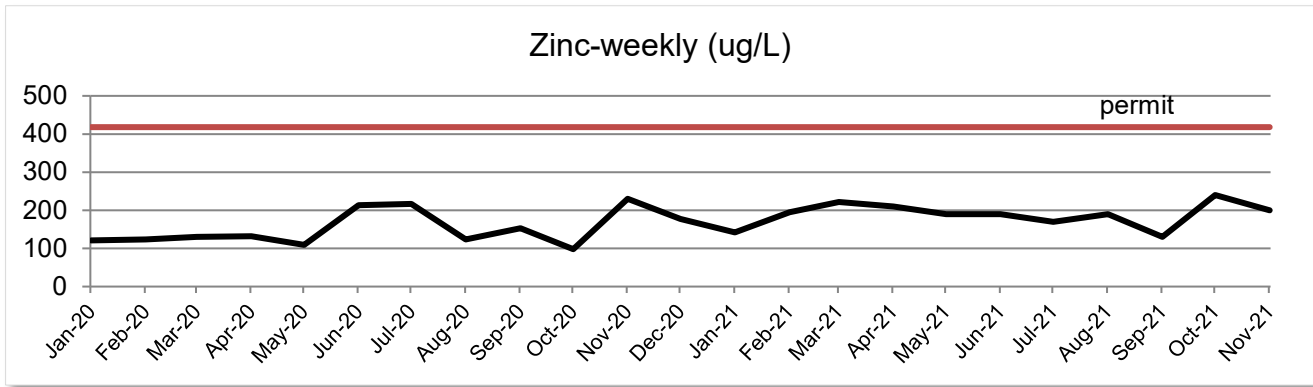


	Design Limits (monthly AVG)	Actual Results
<b>Primary Plant</b>		
Flow (MGD)	13.25	4.1
TSS (Tons/day)	162	32.0
TSS Peak (Tons/Day)	284	174.3

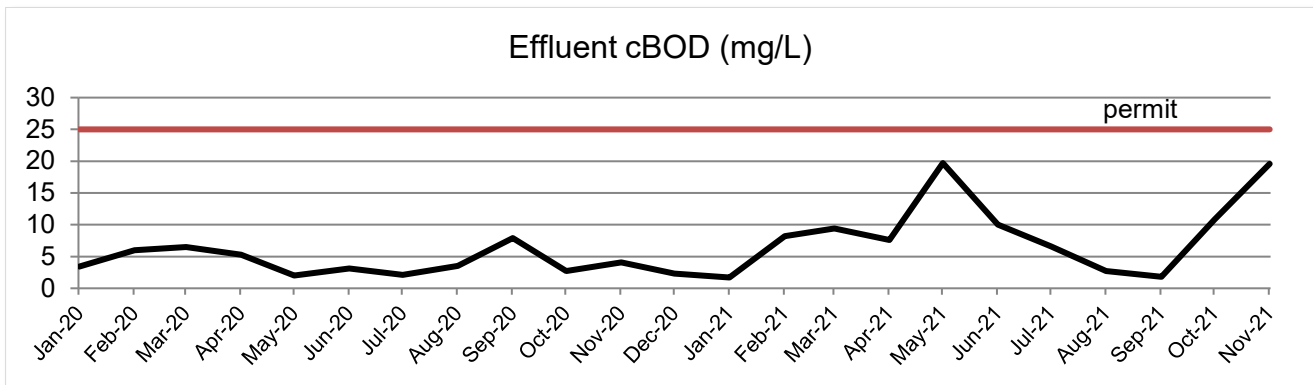
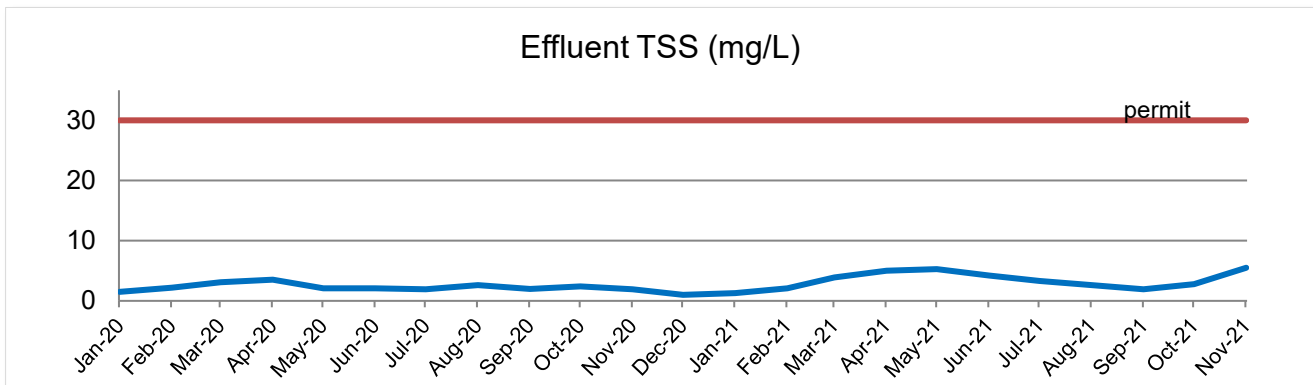


	Design Limits (monthly AVG)	Actual Results
<b>Secondary Plant</b>		
Flow (MGD)	15.25	5.2
cBOD (lbs/Day)	41,300	32,384
Peak cBOD (lbs/Day)	57,350	40,779
Zinc-weekly (ug/L)	418	200
% GRPUC		22.6%



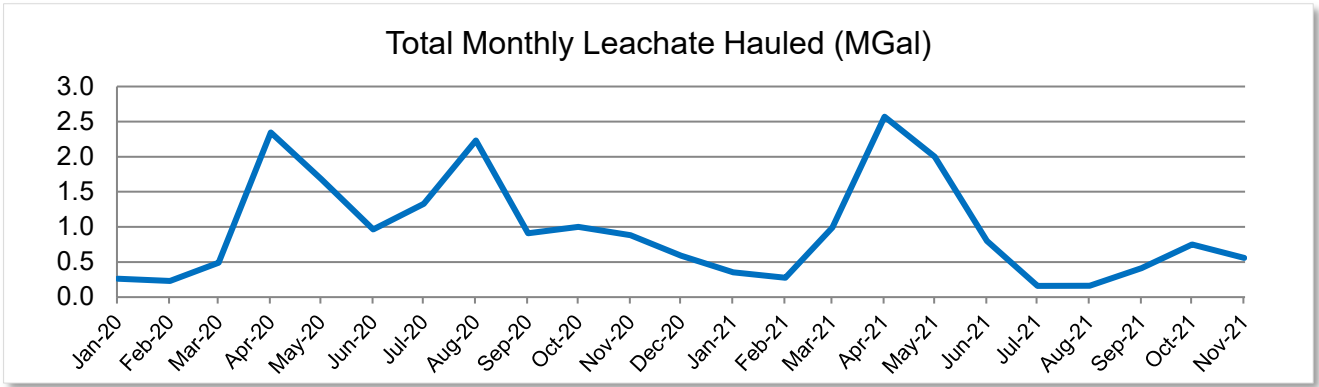


	Permit Limits (monthly AVG)	Actual Results
<u>Effluent</u>		
TSS (mg/L) – monthly average	30	5.5
cBOD (mg/L) – monthly average	25	19.6
Dissolved Oxygen (mg/L)	>1.0	5.1



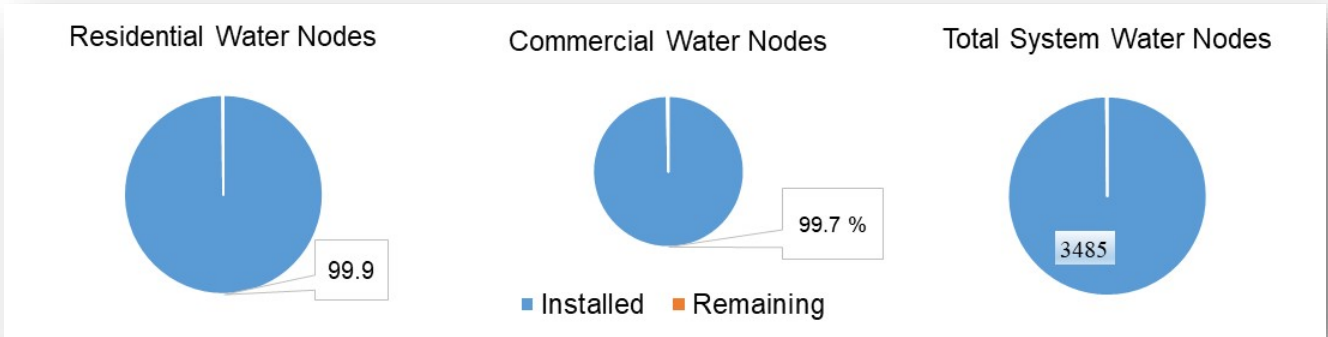
### Sludge Landfill Operations

- 0.56 million gallons of leachate were hauled last month
- 4,404 cubic yards of sludge solids were hauled to the landfill



**AMI Water Install Last Month**

We installed 1 water nodes and/or meters in residential routes. We currently have 3485 (99%) active water nodes installed in the system.



**Projects Performed Last Month**

- Installed new lift pump in number 1 lift station
- Installed new KMnO4 pump at WTP
- Rebuilt lift station 1 pump (for spare)

**Projects Scheduled for This Month**

- Install Sumotomo blower at the WTP for filters
- Repair EWS check valves at the WWTP Secondary
- Rebuild screen house pump