



GRAND RAPIDS  
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500 SE Fourth Street • Grand Rapids, Minnesota 55744

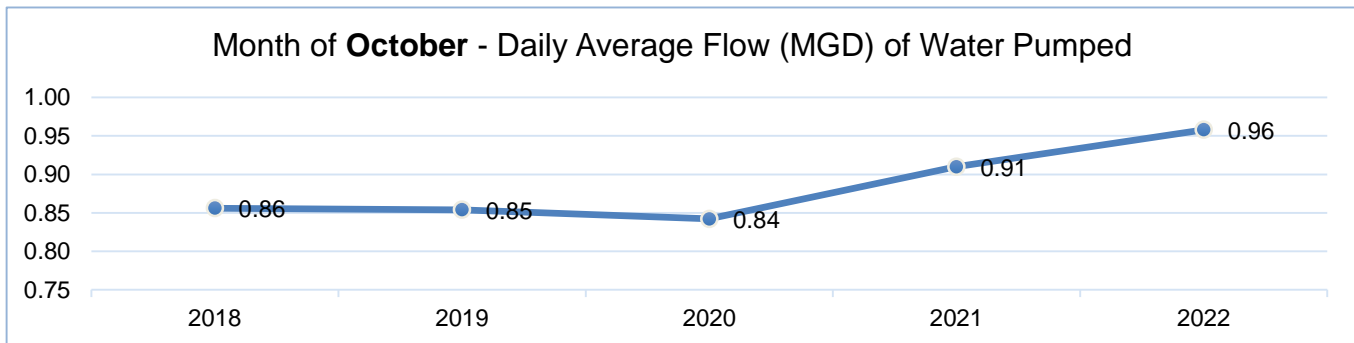
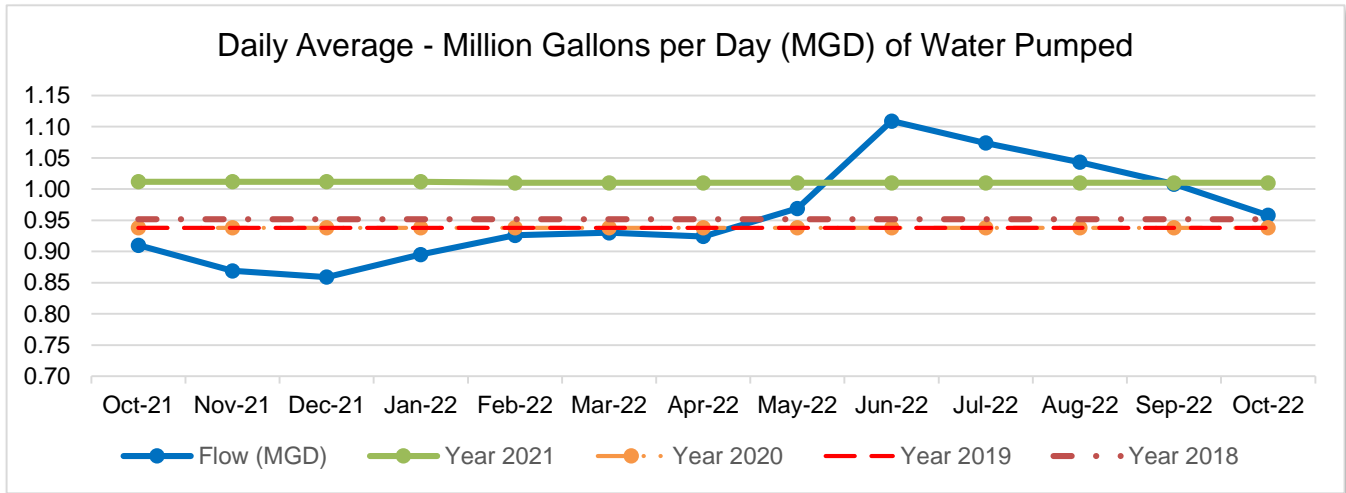
## WATER & WASTEWATER DEPARTMENT MONTHLY REPORT November 2022 Commission Meeting

### Safety

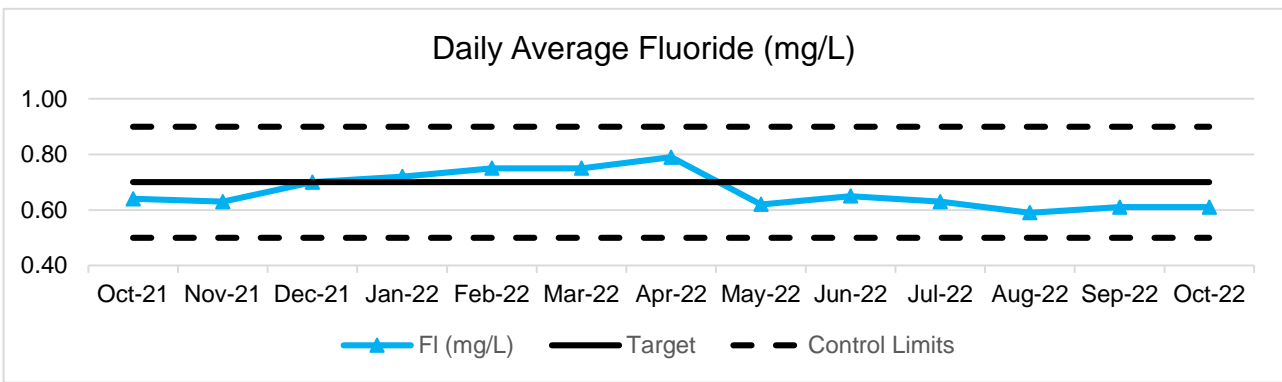
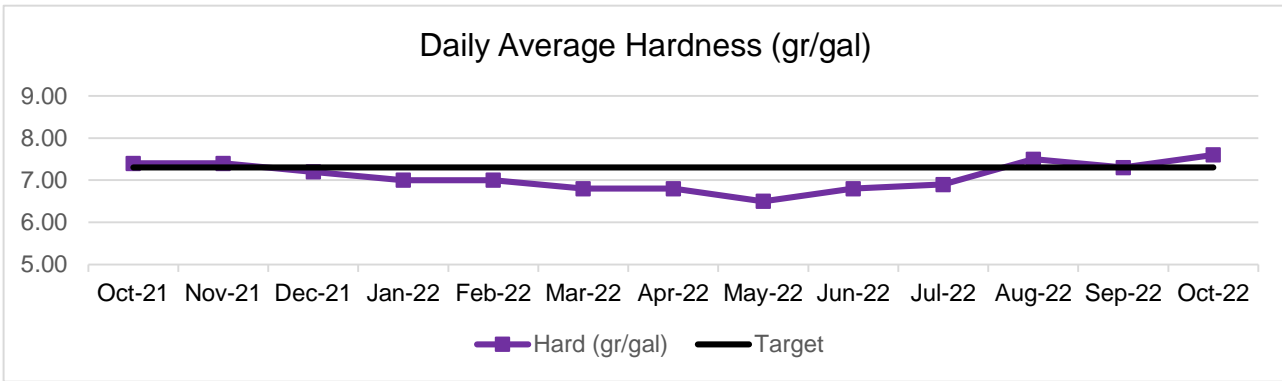
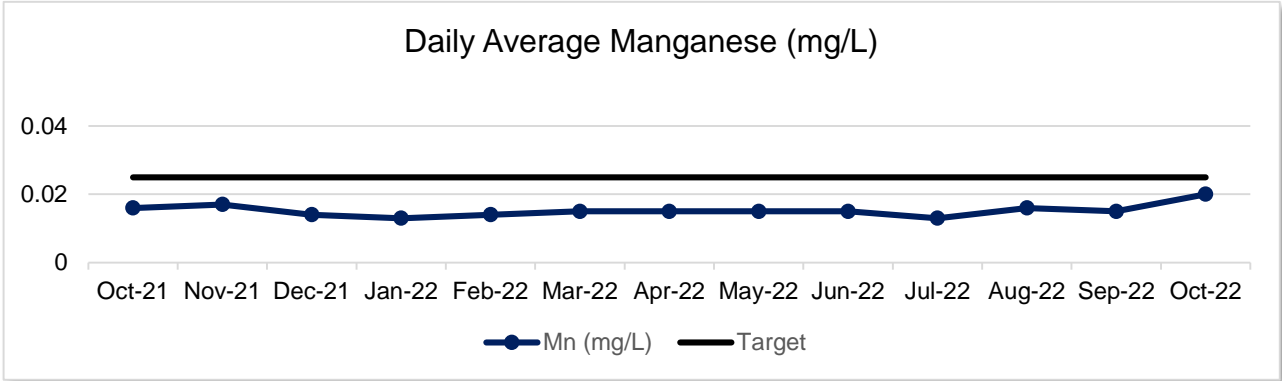
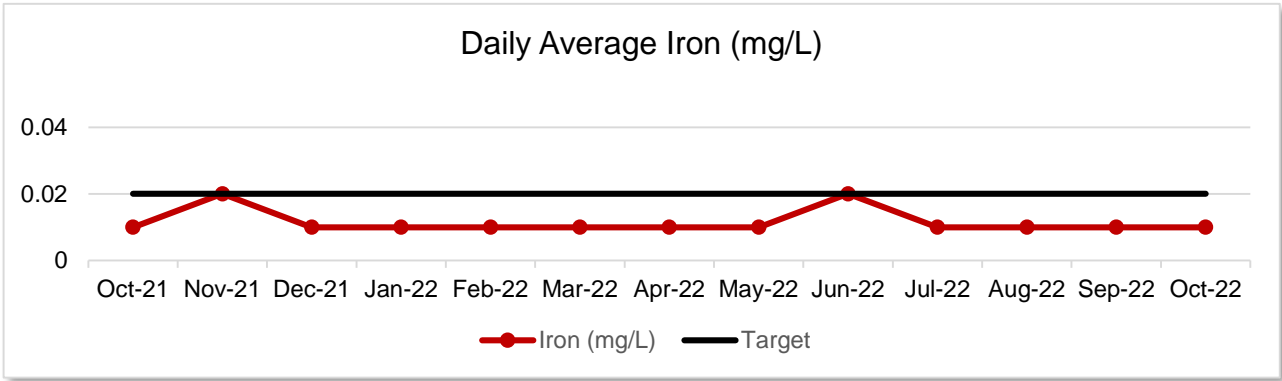
There were no OSHA recordable accidents last month.

### Water Operations

The water plant pumped an average of 0.96 million gallons of water per day (MGD) with a peak of 1.44 million gallons during last month.

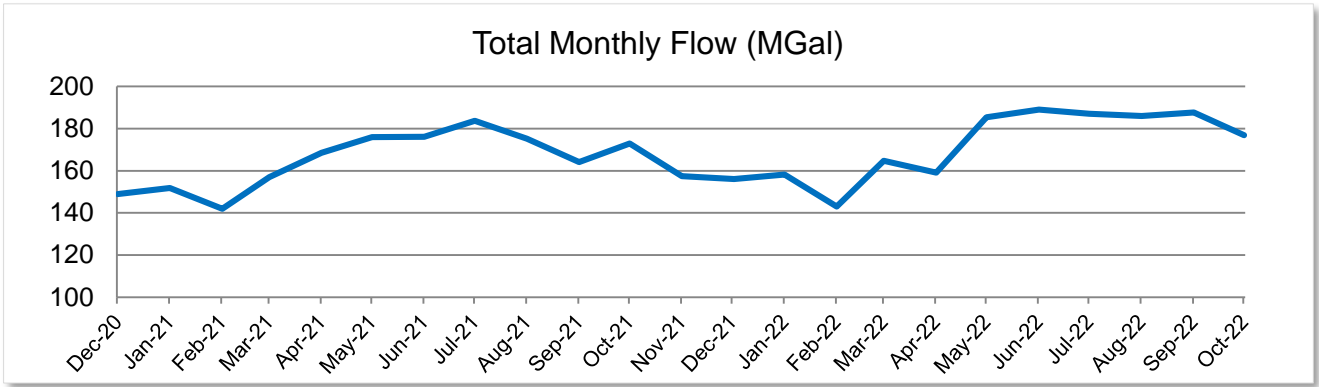


Two water main breaks in October – approx. 700,000 gallons

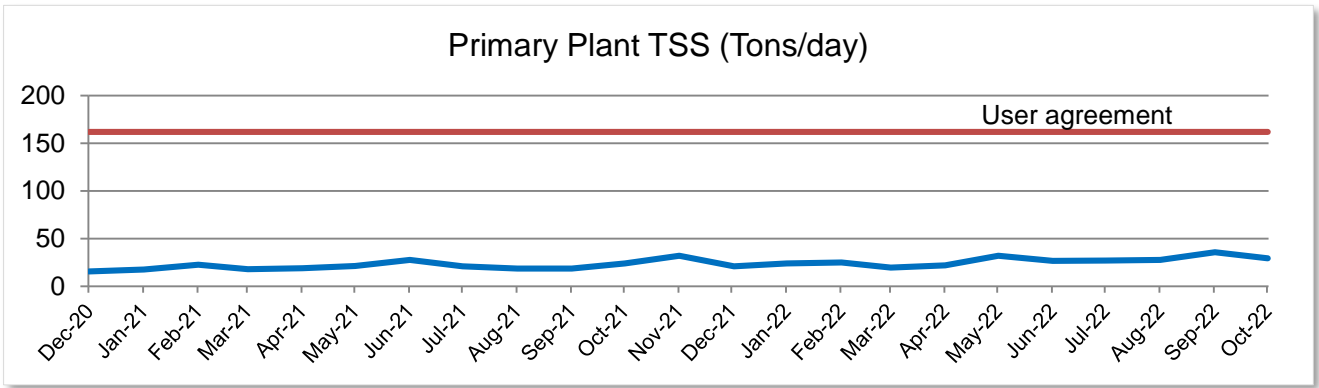


## Wastewater Operations

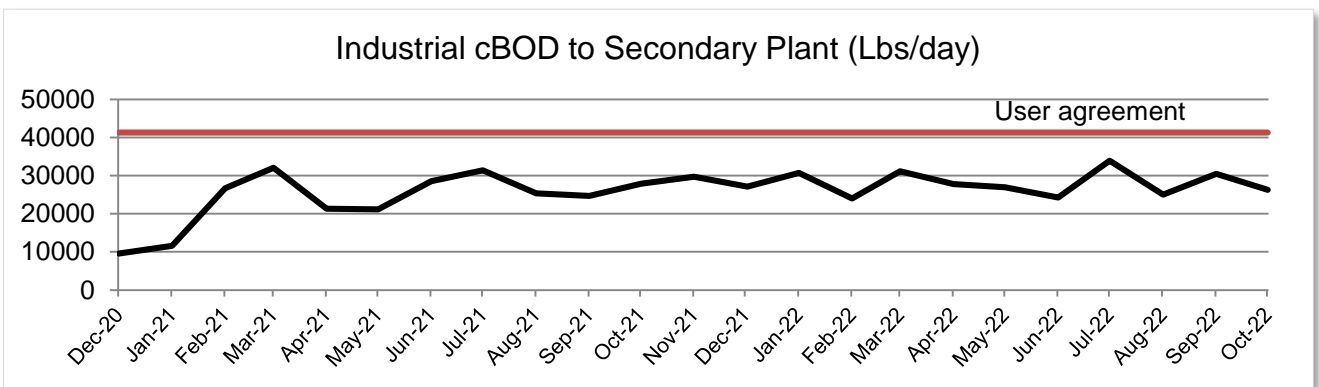
The Wastewater Treatment Plant (WWTP) met all National Pollutant Discharge Elimination System (NPDES) permit requirements last month. We treated 177 million gallons of water removing 99.7% of the Total Suspended Solids (TSS) and 99.0% Biochemical Oxygen Demand (cBOD).

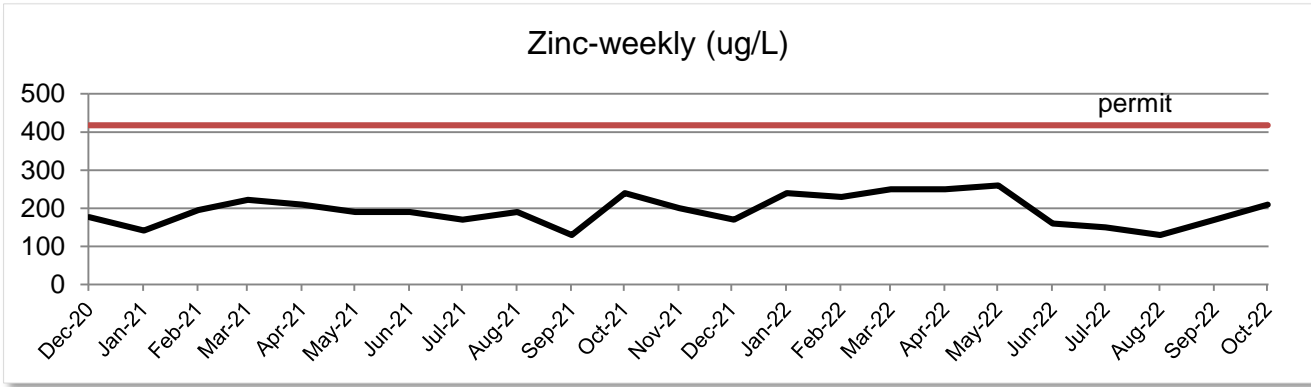


|                      | Design Limits<br>(monthly AVG) | Actual Results |
|----------------------|--------------------------------|----------------|
| <b>Primary Plant</b> |                                |                |
| Flow (MGD)           | 13.25                          | 4.4            |
| TSS (Tons/day)       | 162                            | 29.3           |
| TSS Peak (Tons/Day)  | 284                            | 69.4           |

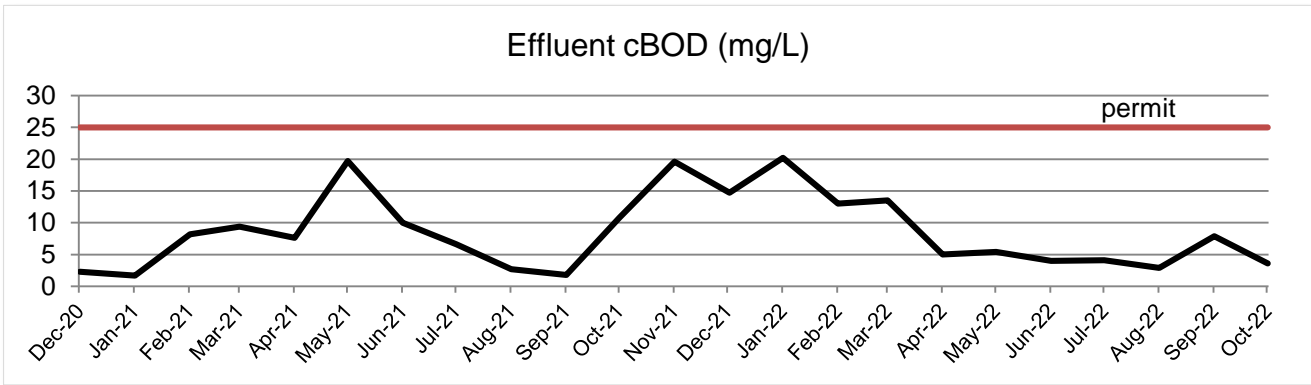
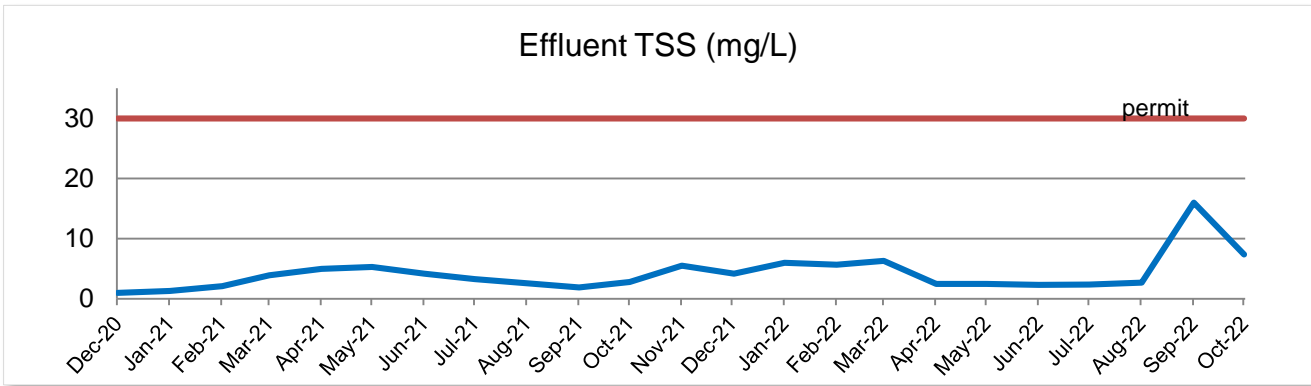


|                        | Design Limits<br>(monthly AVG) | Actual Results |
|------------------------|--------------------------------|----------------|
| <b>Secondary Plant</b> |                                |                |
| Flow (MGD)             | 15.25                          | 5.7            |
| cBOD (lbs/Day)         | 41,300                         | 28,606         |
| Peak cBOD (lbs/Day)    | 57,350                         | 41,935         |
| Zinc-weekly (ug/L)     | 418                            | 170            |
| % GRPUC                |                                | 27.5%          |



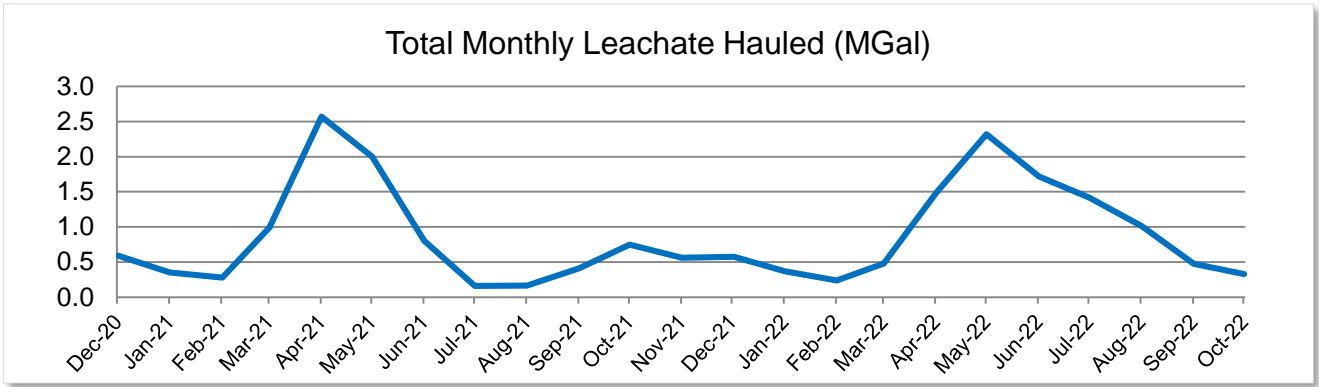


|                               | Permit Limits<br>(monthly AVG) | Actual Results |
|-------------------------------|--------------------------------|----------------|
| <u>Effluent</u>               |                                |                |
| TSS (mg/L) – monthly average  | 30                             | 7.4            |
| cBOD (mg/L) – monthly average | 25                             | 3.6            |
| Dissolved Oxygen (mg/L)       | >1.0                           | 6.2            |



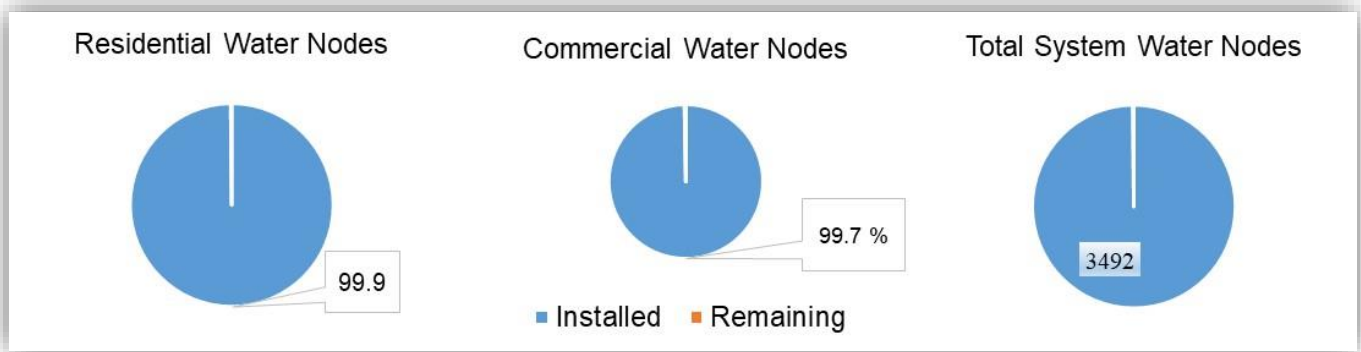
**Sludge Landfill Operations**

- 0.33 million gallons of leachate were hauled last month
- 4,716 cubic yards of sludge solids were hauled to the landfill



**AMI Water Install Last Month**

We installed 5 water nodes and/or meters in residential routes. We currently have 3492 (99%) active water nodes installed in the system. We are working towards getting the remaining nodes installed.



**Projects Performed Last Month**

- Mid-Tower coating repairs project completed.
- Screen house suction valve replacement for pump #2.
- Replaced scum baffles on primary clarifier no 1.
- Main office HVAC Upgrades completed.

**Projects Scheduled for This Month**

- WWT Aeration basin mixer repairs project.
- WWT Effluent water system check valve replacement.
- No. 6 lift station rehabilitation