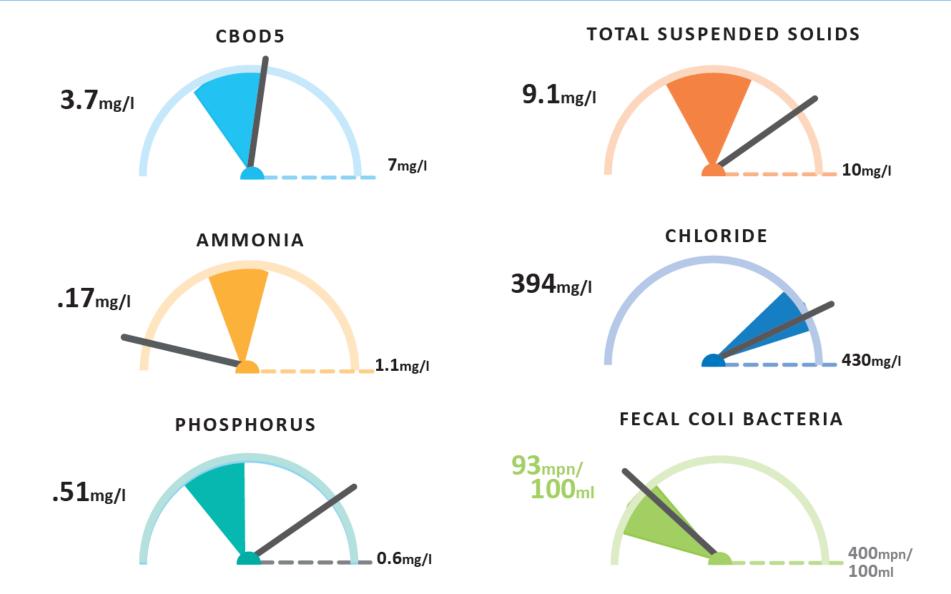
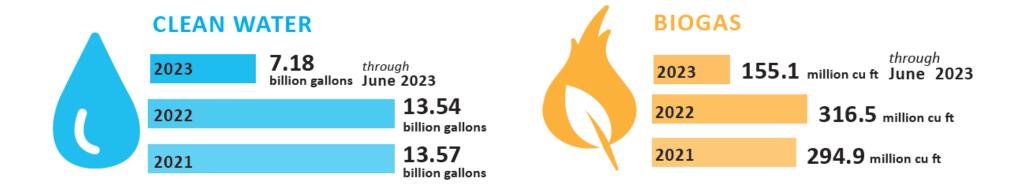
Operations & Maintenance Report July 27, 2023

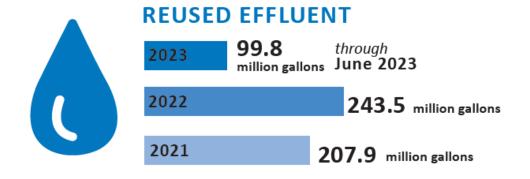


June Plant Performance

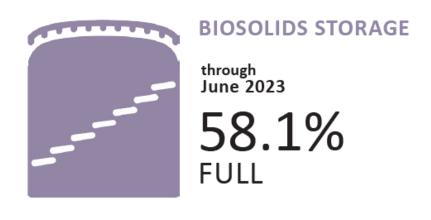


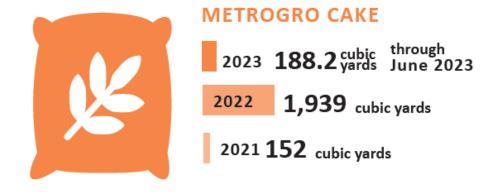
June Resource Recovery

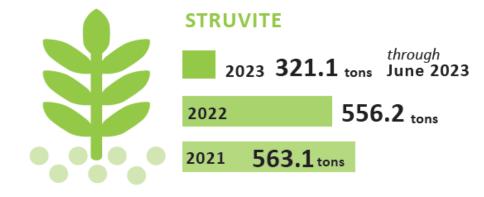


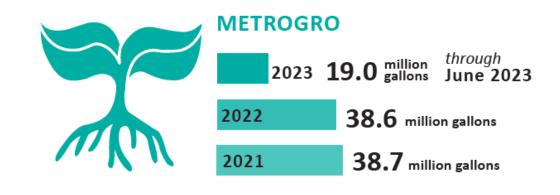


June Resource Recovery









High effluent solids (TSS) overview

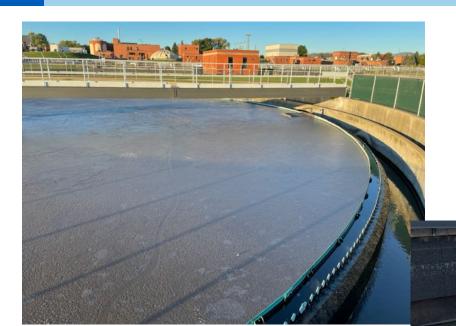
- June 23rd & 24th spiked above 10 mg/l monthly limit (34.1 and 14.8 mg/l)
 - Attributed at time to algae control rotation and season denitrification
 - June 25th returned to normal season values
- June 26th began gradual climbing
- July 3rd evaluated available weekend data, felt stabilizing, planned adjustments if worsen
- July 5th determined visually still not performing, adjustments to "simplify"
 - Suspended algae control rotations on final clarifiers
 - Discontinued sludge wasting trial in east plant, bring all plants to common operating basis
 - Reduced on-line clarifiers
- July 8th and 9th worst days of event (42.9 and 42.5 mg/l TSS, respectively)
 - July 12th DNR was informed of our belief in permit violation once final lab numbers were in
- Effluent TSS returned below monthly limit on July 15th (6.8 mg/l)

"Tennis balls" on clarifier 7



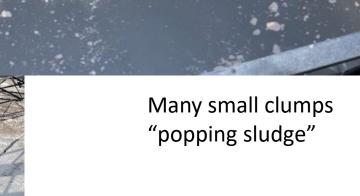


Final clarifier items to note



Final clarifier 8 coming off algae control rotation (2022)

Final clarifier "TowBro" withdrawal manifold before wash-down



Visual of high solids event



July 13 7:00 am CE grab – 14.2 mg/l



July 14 1:00 pm CE grab – 12.5 mg/l



July 17 8:00 am CE grab – 5.7 mg/l

Note that the concentrations shown are for the daily composite effluent (CE) sample while the visual image is of a grab from the CE sampler at the approximate time noted and thus are similar but not the same sample

