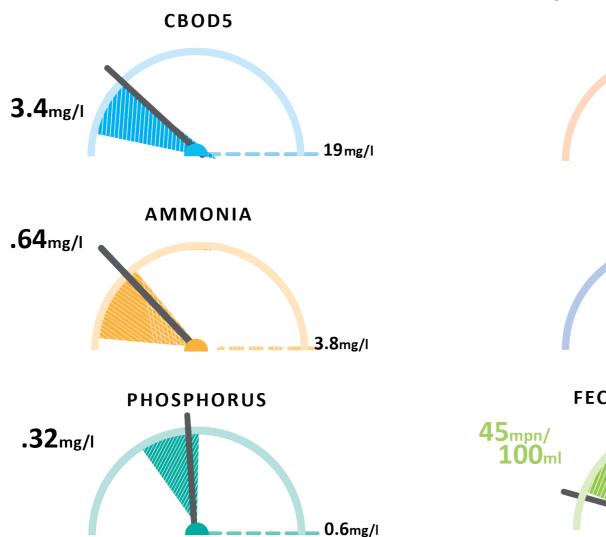
# Operations & Maintenance Report May 27, 2021



### **April Plant Performance**



#### TOTAL SUSPENDED SOLIDS



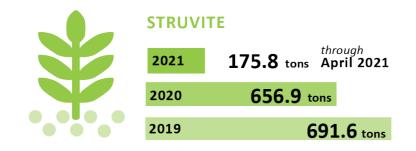




#### FECAL COLI BACTERIA



### April Resource Recovery





#### **METROGRO CAKE**



A 2019 1755 cubic yards

\* A Class A biosolids (743.8 cy)
B Class B biosolids (5256.9cy)



#### **CLEAN WATER**

2021 4.60 billion gallons April 2021

2020 15.64 billion gallons

2019 17.16 billion gallons



#### **METROGRO**

2021 11.4 million gallons through April 2021

32.0 million gallons

2019 34.1 million gallons



#### **BIOGAS**

2021 99.6 million cubic feet through April 2021

2020 294.5 million cubic feet

2019 301.0 million cubic feet



#### **REUSED EFFLUENT**

2021 67.8 million gallons April 2021

2020 197.7 million gallons

2019 209.4 million gallons

# May 12<sup>th</sup> foam – digester 4 TFO



Sludge released from emergency relief hatch during digester foaming event



## Digester foaming – early signs?

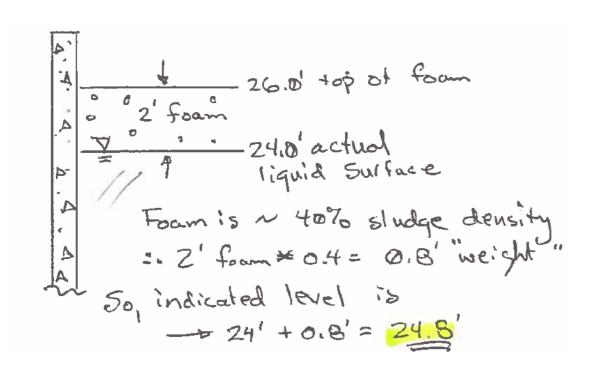
### **Digester 8 Gas Production Trend**



### **Digester 4 & 8 Gas Production Trend**



# Foam caused by...it's complicated...



### Digester level control

- Foam distorts the value
- Can't see inside digester
- Actual liquid surface critical to good mixing
- Good mixing critical to foam mitigation

### • Other *contributors* to foam:

- Rate of feed to digester
- Digester loading per unit volume
- Waste activated sludge (WAS) feed percentage
- Ferric chloride addition (air permit)

# Things could always be worse...





