

# Charlestown WWT Utility

## December 2022 Summary WWTP

January 17, 2023

### *Monthly Test Results*

Parameter	Results	Permit Limit Requirements	
Average Daily Influent Flow	<b>.797</b> monthly Avg. (MGD)	2.2 Design Avg. (MGD)	35 % of Capacity
TSS Effluent	<b>4.0</b> monthly average (mg/l)	30 permit requirement (mg/l)	96.7 % Removal
CBOD Effluent	<b>1.6</b> monthly average (mg/l)	40 permit requirement (mg/l)	98.7 % Removal
Ammonia Effluent	<b>.416</b> monthly average (mg/l)	3.0 mg/l permit requirement	97.9 % Removal
Phosphorus Effluent	<b>.8</b> monthly average (mg/l)	1.0 mg/l permit requirement	82.3% Removal
E.coli	<b>3.0</b> Monthly geometric means	125 Monthly geometric permit requirement	

The facility process has experienced increased stress, due to increased heavy short duration rainfall events. Rainfall events and saturated ground conditions increase detrimental effects to the treatment process. Our primary efforts and goal in the upcoming months continue to better control solids inventory and improve settleability to the clarifiers.

#### **Biosolids Removal:**

Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Se p	Oc t	Nov	Dec	YTD
Tons/Disposed	0	0	77.4	19.3	50.3	103.2	15.2	90.6	0	0	84.1	28.6	468

**The facility-maintained compliance on all parameters!**

## **Collection System**

### **Activity/task were performed during the month:**

- There were 124 locates with 14 emergency locates performed during the month of November.
- All Lift station were inspected weekly during the month.
- A total of nine (9) rain events occurred during the month, The largest events were on December 6 at the WWTP. Total Rainfall for the month at the facility Was 3.2.”
- 565’ liner feet main line was flushed during the month.
- 0’ linear feet main line footage was Televised during the month.

### **Managers Notes:**

Utility continues to operate fairly well; it is difficult to ensure all needed maintenance is accomplished with the lack of staff. Utility continues to be very budget minded and still strive to be proactive versus reactive.

### **Training:**

### **Staff :**

Existing staff continue to perform exemplary addressing achieving most, if not all requirements of the utility. Additional staff will be needed to ensure agreed order compliance schedule/PMP task are achieved.