

July 7, 2023

President and Commissioners
Town of Charlestown
241 Market Street
Charlestown, MD 21914

**Re: Charlestown Water Treatment Plant
June 2023 Monthly Operations Report
PWSID #0070029**

Dear President and Commissioners;

This report is to advise you of the activities performed last month at the Water Treatment Plant and Distribution System.

| Water Withdrawal Summary | 2023 | 2022 |
|---------------------------------|-------------------|-------------------|
| Total Monthly Water Withdrawal | 3,658,000 gallons | 2,954,000 gallons |
| Average Daily Water Withdrawal | 121,933 gallons | 98,467 gallons |
| Minimum Daily Water Withdrawal | 64,000 gallons | 27,000 gallons |
| Maximum Daily Water Withdrawal | 195,000 gallons | 174,000 gallons |
| Total Positive Coliform Samples | 0 | |

If you have any questions or require additional information, please do not hesitate to contact me.

Sincerely,



Deb Balsavage,
Compliance Coordinator

Charlestown Water Treatment Plant Maintenance & Operations Activities

Routine Operation and Maintenance:

- Daily tasks were recorded in the WTF logbook and all data sheets for chemical usage, equipment runtime, pH calibration, and routine checklists were completed.
- Daily pH and chlorine tests were performed.
- Chemical feed pumps were adjusted as necessary to maintain optimal pH and chlorine levels.
- Chemicals were mixed as needed and a chemical inventory was maintained.
- Monthly samples were collected and sent to certified lab for testing per state requirements.
- Monthly Operations Report was sent to MDE.
- The WTF Maintenance Schedule was followed.
- Housekeeping was performed.

Non-Routine Operation and Maintenance:

- Completed 17 locates.
- 51 meters were read.

July 10, 2023

Mr. Alex Yeboah
Maryland Department of the Environment
Water Supply Program
1800 Washington Boulevard
Baltimore, MD 21230

**Re: Charlestown Water Plant
June 2023 Monthly Operations Report
PWSID # 0070029**

Dear Mr. Yeboah;

Attached for your review is the Monthly Operations Report for the Charlestown Water Plant.

If you have any questions or require additional information, please do not hesitate to contact me at (484)507-4401.

Sincerely,

Deb Balsavage

Deb Balsavage,
Compliance Coordinator

cc: Mike Poyner, CEO, Miller Environmental, Inc.
Dean Miller, President, Miller Environmental, Inc.

MDE
WATER MANAGEMENT DIVISION
1800 Washington Boulevard
BALTIMORE MD. 21230

FACILITY: **Town of Charlestown**
ADDRESS: P.O. Box 154
Charlestown, MD. 21914
ID#: 007-0029

OPERATOR: Dean Miller
CERT. #: 3388

County: Cecil
Month: **June**
Year: **2023**

| GENERAL | | WELLS | | | | | | CHEMICALS | | | DISTRIBUTION | | | | | | |
|---------|---------|----------------|----------------|----------|------|---------|--------|-----------|----------|----------|--------------|---------|----------|----------|--------|----------|------|
| DATE | WEATHER | WELL#1 HRS. | WELL#2 HRS. | FLOW Mgd | pH | Temp.°C | Fe ppm | Chlorine | Soda Ash | Aqua Mag | pH | Cl2 ppm | Alk. Ppm | Hrd. Ppm | Fe ppm | Flow Mgd | PSI |
| 1 | CLEAR | 22.0 | 0.0 | 0.143 | 5.30 | 20.6 | | 21.0 | 200 | 2.0 | 7.00 | 1.20 | | | | 0.151 | 66.3 |
| 2 | CLEAR | 18.1 | 0.1 | 0.127 | 5.50 | 25.9 | | 12.0 | 150 | 1.5 | 6.80 | 1.50 | | | | 0.117 | |
| 3 | CLEAR | 16.1 | 0.2 | 0.175 | 5.40 | 24.9 | | 11.0 | 350 | 2.0 | 7.00 | 1.40 | | | | 0.180 | |
| 4 | CLEAR | 17.8 | 0.0 | 0.176 | 5.60 | 21.4 | | 10.0 | 250 | 2.0 | 7.00 | 1.20 | | | | 0.201 | |
| 5 | CLEAR | 0.0 | 24.3 | 0.152 | 5.40 | 22.6 | | 18.0 | 200 | 2.0 | 7.10 | 1.30 | | | | 0.144 | 65.6 |
| 6 | CLEAR | 0.0 | 23.9 | 0.151 | 5.40 | 19.9 | | 19.0 | 200 | 2.0 | 7.00 | 1.40 | | | | 0.125 | 65.7 |
| 7 | CLEAR | 0.0 | 22.4 | 0.131 | 5.20 | 19.6 | | 10.0 | 200 | 2.0 | 6.90 | 1.60 | | | | 0.123 | 66.4 |
| 8 | FOGGY | 0.0 | 17.7 | 0.108 | 5.30 | 20.0 | | 11.0 | 150 | 2.0 | 7.10 | 1.50 | | | | 0.121 | 66.8 |
| 9 | CLEAR | 0.0 | 24.1 | 0.144 | 5.10 | 25.1 | | 13.0 | 200 | 0.0 | 6.70 | 2.00 | | | | 0.134 | |
| 10 | CLEAR | 0.0 | 24.2 | 0.157 | 5.10 | 24.9 | | 11.0 | 225 | 1.0 | 6.60 | 1.90 | | | | 0.170 | |
| 11 | CLEAR | 0.0 | 26.4 | 0.099 | 5.40 | 24.6 | | 12.0 | 225 | 1.0 | 6.90 | 1.70 | | | | 0.169 | 66.4 |
| 12 | RAIN | 0.0 | 26.7 | 0.133 | 5.20 | 24.3 | | 12.0 | 175 | 2.5 | 6.90 | 1.60 | | | | 0.102 | |
| 13 | CLEAR | 10.7 | 0.0 | 0.064 | 5.30 | 24.1 | | 10.0 | 125 | 1.0 | 6.80 | 1.60 | | | | 0.098 | 66.4 |
| 14 | CLOUDY | 9.4 | 0.0 | 0.118 | 5.30 | 21.6 | | 9.5 | 175 | 1.0 | 6.40 | 1.70 | | | | 0.103 | 67.4 |
| 15 | CLEAR | 0.1 | 19.4 | 0.149 | 5.20 | 20.1 | | 11.5 | 175 | 1.0 | 6.80 | 1.40 | | | | 0.094 | 66.4 |
| 16 | CLEAR | 0.0 | 24.4 | 0.122 | 4.90 | 24.1 | | 9.0 | 175 | 2.0 | 6.80 | 1.30 | | | | 0.163 | |
| 17 | CLEAR | 0.0 | 19.9 | 0.195 | 5.30 | 25.3 | | 5.0 | 200 | 1.0 | 6.60 | 1.50 | | | | 0.117 | |
| 18 | CLEAR | 0.6 | 1.4 | 0.099 | 5.20 | 24.6 | | 9.0 | 125 | 2.0 | 6.90 | 1.50 | | | | 0.199 | 67 |
| 19 | CLEAR | 0.0 | 15.9 | 0.107 | 5.20 | 27.6 | | 10.0 | 125 | 1.0 | 6.80 | 1.30 | | | | 0.094 | |
| 20 | CLOUDY | 1.1 | 15.8 | 0.103 | 5.40 | 26.6 | | 5.0 | 75 | 1.0 | 6.90 | 1.40 | | | | 0.120 | 66.7 |
| 21 | CLOUDY | 0.0 | 16.7 | 0.114 | 5.30 | 24.9 | | 6.0 | 175 | 1.0 | 6.90 | 1.60 | | | | 0.104 | 66.4 |
| 22 | RAIN | 0.0 | 17.9 | 0.085 | 5.30 | 24.1 | | 5.0 | 100 | 3.0 | 7.00 | 1.70 | | | | 0.112 | 66.4 |
| 23 | RAIN | 0.0 | 13.6 | 0.103 | 5.30 | 24.7 | | 12.0 | 275 | 1.0 | 7.00 | 1.10 | | | | 0.087 | |
| 24 | RAIN | 0.0 | 17.3 | 0.113 | 5.30 | 24.7 | | 10.0 | 125 | 1.0 | 7.10 | 1.10 | | | | 0.105 | |
| 25 | CLEAR | 0.0 | 18.5 | 0.086 | 5.20 | 22.9 | | 6.0 | 150 | 1.0 | 7.00 | 1.30 | | | | 0.118 | 66.5 |
| 26 | CLOUDY | 0.0 | 14.0 | 0.093 | 5.40 | 20.1 | | 9.0 | 175 | 1.0 | 6.90 | 1.40 | | | | 0.085 | 66.4 |
| 27 | CLOUDY | 0.0 | 14.8 | 0.092 | 5.40 | 19.0 | | 10.0 | 100 | 1.0 | 7.00 | 1.30 | | | | 0.096 | 66.4 |
| 28 | CLEAR | 0.0 | 15.7 | 0.097 | 5.30 | 18.6 | | 9.0 | 150 | 1.0 | 6.90 | 1.20 | | | | 0.101 | 66.4 |
| 29 | CLEAR | 0.0 | 17.7 | 0.111 | 5.30 | 26.6 | | 9.0 | 150 | 0.5 | 7.00 | 1.30 | | | | 0.093 | |
| 30 | CLEAR | 0.0 | 17.7 | 0.111 | 5.20 | 25.8 | | 8.5 | 150 | 1.0 | 7.10 | 1.30 | | | | 0.115 | |
| 31 | | | | | | | | | | | | | | | | | |
| TOTAL | | 95.9 | 450.7 | 3.658 | | | | 314 | 5250 | 41.5 | | | | | | 3.741 | |
| AVERAGE | | 3.2 | 15.0 | 0.122 | 5.29 | 23.3 | | 10.5 | 175 | 1.4 | 6.90 | 1.44 | | | | 0.125 | |
| MIN | | 0.0 | 0.0 | 0.064 | 4.90 | 18.6 | | | | | 6.40 | 1.10 | | | | 0.085 | |
| MAX | | 22.0 | 26.7 | 0.195 | 5.60 | 27.6 | | | | | 7.10 | 2.00 | | | | 0.201 | |