

Poughkeepsies' Water Treatment Facility

MEMORANDUM

November 6, 2017

To: Joint Water Board
From: Randy J. Alstadt, P.E.
Water Plant Administrator
Subject: November 2017 Status Report

Water Quality/Production Issues

Process data for October 2017 and November 2017 are presented in the following tables. November Average Daily Flow was less than October 2017 by 0.43 MGD. November 2017 demand was 1.3 MGD greater than November 2016. Quality was excellent. Plant effluent turbidity averaged 0.06 NTU while influent turbidity averaged 56 NTU (99.5% reduction).

Treatment Process Comparison October 2017 vs. November 2017

| Parameter | October-17 | | | November-17 | | |
|-------------------------|------------|---------|---------|-------------|---------|---------|
| | Average | Maximum | Minimum | Average | Maximum | Minimum |
| Raw Flow, MGD | 10.86 | 11.89 | 9.77 | 10.43 | 11.99 | 8.64 |
| Raw Turbidity, NTU | 41 | 138 | 7 | 56 | 189 | 11 |
| Effluent Turbidity, NTU | 0.06 | 0.07 | 0.05 | 0.06 | 0.08 | 0.05 |

Sludge Process Comparison October 2017 vs. November 2017

| Parameter | October-17 | November-17 | Change | |
|----------------------------|------------|-------------|-----------|---------|
| | | | Quantity | Percent |
| Residual Solids, gallons | 838,857 | 828,272 | (10,585) | -1% |
| Backwash, gallons | 3,555,000 | 2,962,000 | (593,000) | -17% |
| Thickener, gallons | 326,708 | 430,866 | 104,158 | 32% |
| Plate Settler, gallons | 21,133 | 18,534 | (2,599) | -12% |
| Centrifuge #1 gallons | 206,472 | 225,544 | 19,072 | 9% |
| Centrifuge #2 gallons | 203,769 | 216,063 | 12,294 | 6% |
| Centrifuge Total | 410,241 | 441,607 | 31,366 | 8% |
| Centrifuge #1 gpm | 13 | 20 | 6 | 46% |
| Centrifuge #2 gpm | 13 | 19 | - | 0% |
| Solids Hauled, tons | 296.63 | 166.62 | (130) | -44% |
| Feed Solids Concentration | 6.7 | 6.7 | - | 0% |
| Centrifuge #1 Cake percent | 29.4 | 31.1 | 1.6 | 6% |
| Centrifuge #2 Cake percent | 29.1 | 30.3 | 1.2 | 4% |

Plant Update

Plant operated well. The solids thickener had 4.5 feet of solids at the end of November (0.5 feet less than October). Centrifuge average operating rate was 29 gpm which is 2.3 times that in October. This was due to grinder modifications that were made in November. Centrifuge feed solids concentration average 6.9-percent solids.

Our ozone system is working well. The filters have operated longer between washes, however are significantly less than historical.

Staffing

Shane Hunt received his Grade IIA Operator license in early November.

Upgrade

Trailer manufacturing is continuing.

RLJ Electric was issued a letter from City Corporation Counsel concerning their lack of providing sufficient information for MWBE variance and need to complete the remaining work. RLJ has responded. RLJ submitted a letter requesting variance to MWBE requirements which was forwarded to EFC for approval. They have not commented. RLJ has not performed any work in past several months.