LEWES WASTEWATER TREATMENT PLANT

Influent Flow Report

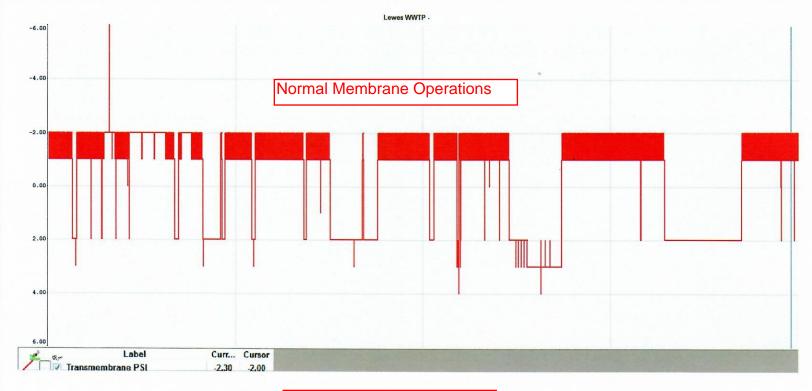
Influent Flow

| Time | Flow |
|--------------|------------------|
| 9/1/2020 | 667500 |
| 9/2/2020 | 821300 |
| 9/3/2020 | 1045500 |
| 9/4/2020 | 1692100 Peak Day |
| 9/5/2020 | 1229400 |
| 9/6/2020 | 1147300 |
| 9/7/2020 | 1067900 |
| 9/8/2020 | 955300 |
| 9/9/2020 | 889700 |
| 9/10/2020 | 908900 |
| 9/11/2020 | 912200 |
| 9/12/2020 | 902600 |
| 9/13/2020 | 890300 |
| 9/14/2020 | 830200 |
| 9/15/2020 | 775400 |
| 9/16/2020 | 727400 |
| 9/17/2020 | 751000 |
| 9/18/2020 | 816400 |
| 9/19/2020 | 787600 |
| 9/20/2020 | 822100 |
| 9/21/2020 | 790800 |
| 9/22/2020 | 772300 |
| 9/23/2020 | 773000 |
| 9/24/2020 | 766000 |
| 9/25/2020 | 387000 |
| 9/26/2020 | 800700 |
| 9/27/2020 | 801700 |
| 9/28/2020 | 787300 |
| 9/29/2020 | 798400 |
| 9/30/2020 | 907200 |
| Total Flow : | 26224500 |

LEWES WASTEWATER TREATMENT PLANT Effluent Flow Report

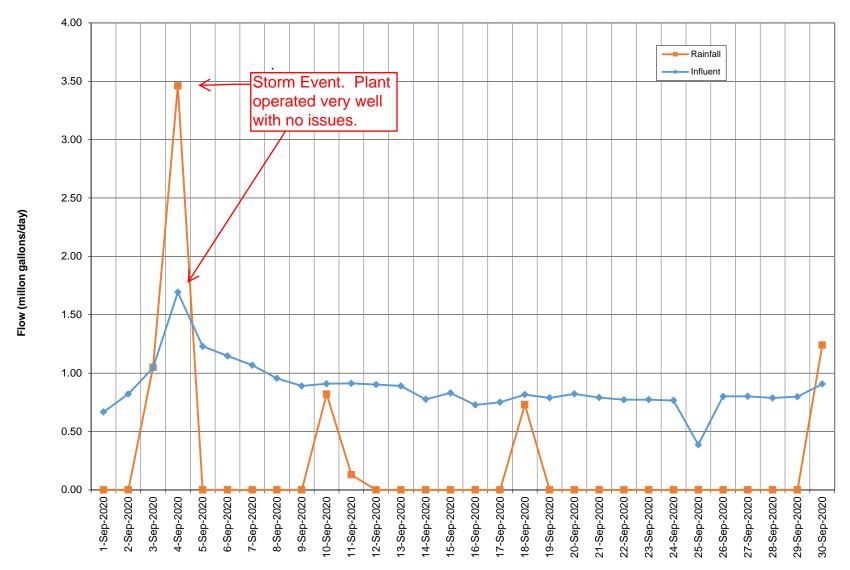
Effluent Flow

| Time | Flow |
|--------------|------------------|
| 9/1/2020 | 603700 |
| 9/2/2020 | 796500 |
| 9/3/2020 | 924900 |
| 9/4/2020 | 1600400 Peak Day |
| 9/5/2020 | 1178000 |
| 9/6/2020 | 1129200 |
| 9/7/2020 | 1095400 |
| 9/8/2020 | 967500 |
| 9/9/2020 | 889100 |
| 9/10/2020 | 938100 |
| 9/11/2020 | 894200 |
| 9/12/2020 | 900800 |
| 9/13/2020 | 886000 |
| 9/14/2020 | 841300 |
| 9/15/2020 | 777100 |
| 9/16/2020 | 741100 |
| 9/17/2020 | 771700 |
| 9/18/2020 | 806500 |
| 9/19/2020 | 791400 |
| 9/20/2020 | 817600 |
| 9/21/2020 | 788100 |
| 9/22/2020 | 768500 |
| 9/23/2020 | 769700 |
| 9/24/2020 | 760200 |
| 9/25/2020 | 771800 |
| 9/26/2020 | 800500 |
| 9/27/2020 | 804200 |
| 9/28/2020 | 780000 |
| 9/29/2020 | 818200 |
| 9/30/2020 | 897500 |
| Total Flow : | 26309200 |



Kubota Digester Membranes

Influent Flow Vs. Rainfall



LEWES BPW WWTP Biweekly InSight Report

Date: 9/9/2020

From: Erin Horocholyn - Suez Water Technologies & Solutions

To: Dave Weed, Darrin Gordon

cc: Matt Stapleford - Suez Water Technologies & Solutions

System Equipment

4 × ZW trains, each train consists of 4 - 500D cassettes, 120 modules x 370 sq. ft. per train (surface area 44,400 sq. ft. per train)

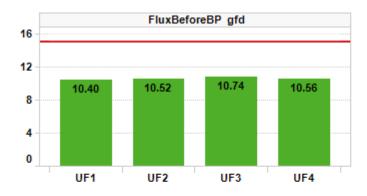
Replacement membranes installed Q1 2020 on all 4 trains

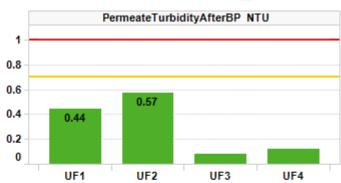
Cleaning Strategy

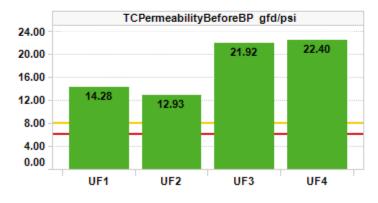
Recovery cleaning - 2 NaOCl @ 2000 ppm dose/1000 ppm soak per year, 1 Citric acid @ 2000 ppm per year Maintenance cleaning - 1 NaOCl per week @ 200 ppm, 1 Citric acid per week @ 2000 ppm

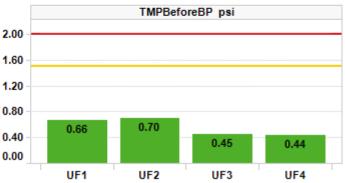
KPI Dashboard – Avg values through reporting period







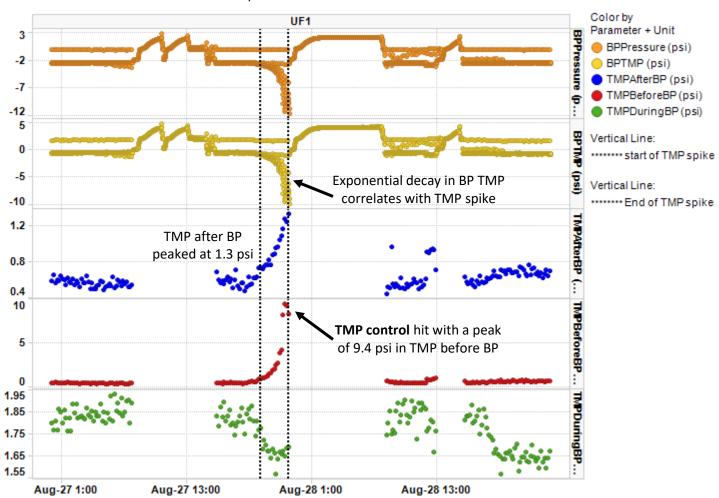




Plant Summary

Overall, the plant operated well. Turbidity has decreased on UF2, but rose on UF1. As well, there are no citric acid maintenance cleans (MCs) showing in the data to date. If no citric MCs are currently being run, I recommend replacing one of the weekly hypochlorite MCs with a citric acid MC. Finally, unless there are production constraints, I recommend running the MCs for 1 hour or 45 mins instead of 30 mins.

- TC permeability BBP was good on all trains, and excellent on trains UF3 and UF4. UF1 and UF2 averaged 14.28 and 12.93 gfd/psi respectively. UF3 and UF4 averaged 21.92 and 22.40 respectively. For reference,
 TC permeability BBP is considered good above 8 gfd/psi
- Average TMP was great on all trains. UF1 and UF2 averaged 0.66 and 0.70 psi, while UF3 and UF4 averaged 0.45 and 0.44 psi. For reference, excellent TMP is below 1.0 psi
 - All trains had higher TMP around 1.0 1.2 psi on Sept 4th, due to the high flow event. TMP levels have been slightly elevated since the flow returned to normal on all trains
 - O UF1 experienced high TMP on Aug 27th, seeing a peak in the before BP TMP of 9.4 psi, which is at TMP control. At this time, UF1's permeability was suppressed to levels as low as 0.73 gfd/psi. The exponential decay in BP TMP correlates to the TMP spike; BP TMP is calculated with BP Pressure which shows the same trend. No spikes were seen in flux or any aeration tags, and no spikes were seen on the other trains at this time. The backpulse pressure transmitter is PE/PIT-3523-1 which is on the permeate header before the process pump P-35-1. The BP TMP is tag PDI-8823-1, and is calculated from PDI-3423-1. The TMP control issue cleared up after the event



- Permeate turbidity was above 0.10 NTU on UF1, UF2, and UF4, averaging 0.44, 0.57, and 0.12 respectively. UF3
 averaged 0.08 NTU. For reference, excellent turbidity is less than 0.1 NTU, and good turbidity less than
 approximately 0.3 NTU
- Average daily permeate production was 841 kgal, with a maximum of 1800 kgal (1.8 MGD) on Sept 4th. Average daily production per train was 219 kgal on UF1, 263 kgal on UF2, 179 kgal on UF3, and 181 kgal on UF4.
 Currently UF2 is producing the most permeate, followed by UF1
- Flux ranged from 10.40 10.74 gfd, and is more even across trains in this period compared to the last report. Even flux is beneficial for even wear across the membrane trains
- Maintenance clean design specifies 1 hypochlorite/chlorine MC and 1 citric acid MC per week, per train. MCs last about 66 minutes, or just over one hour at the default duration setpoints/iterations. Design pH for hypochlorite MCs is maximum 10.5, and for citric acid MCs the ideal range is 2.5 3.5.
 - There is some variation in MC duration on UF1. The average duration of 0.5 hours is less than the default design MC duration of about 1 hour, which may be limiting MC effectiveness
 - There are no acid MCs showing up in the data can the site confirm if citric acid MCs are scheduled?

 There are currently about 2 hypochlorite MCs being run per week, per train, which is double the design requirements. If no citric MCs are currently being run, I recommend replacing one of the weekly hypochlorite MCs with a citric acid MC

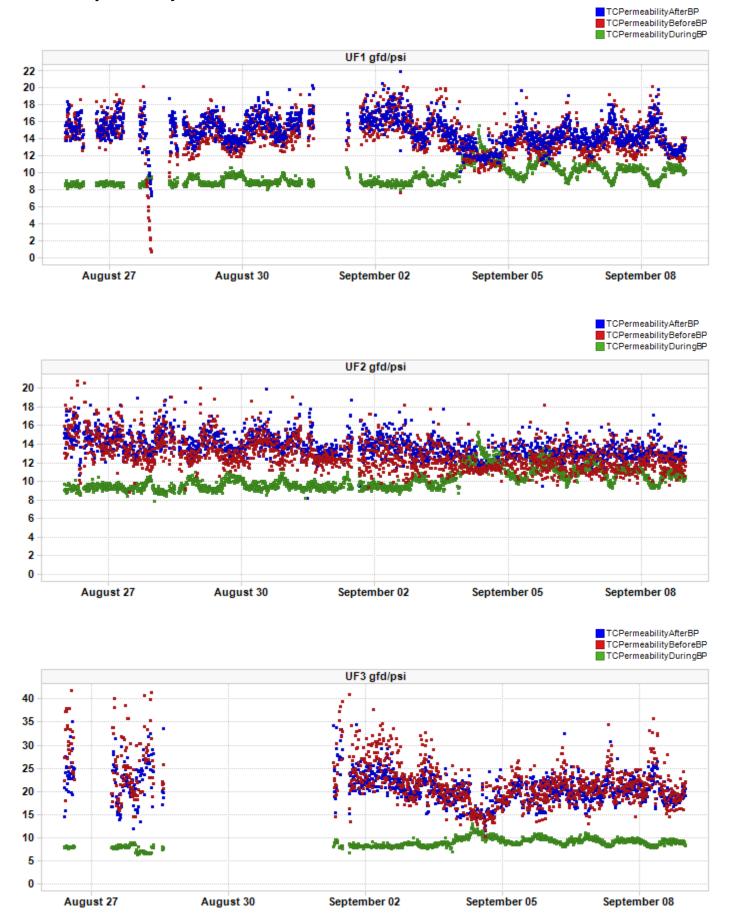
| Asset | Date and Start Time | Chemical Used | MC Duration (hours) | CIP BP Tank average pH |
|-------|---------------------|------------------|---------------------|---------------------------|
| | Aug 27, 7:51 AM | Chlorine | 2.5 | 7.6 |
| | Aug 27, 3:11 PM | Chlorine | 0.5 | 7.7 |
| UF1 | Aug 28, 1:05 PM | Chlorine | 1.0 | 7.8 |
| OFI | Aug 31, 8:02 AM | Chlorine | 2.0 | 7.6 |
| | Sept 3, 8:07 AM | Chlorine | 0.5 | 7.7 |
| | Sept 8, 1:30 PM | Chlorine | 0.5 | 7.5 |
| | Aug 28, 7:53 AM | Chlorine | 0.5 | 7.7 |
| UF2 | Sept 1, 8:08 AM | Chlorine | 0.5 | 7.7 |
| UFZ | Sept 5, 10:34 AM | Chlorine | 0.5 | 7.5 |
| | Sept 8, 8:08 AM | Chlorine | 0.5 | 7.5 |
| | Aug 28, 8:50 AM | Chlorine | 0.5 | 7.6 |
| UF3 | Sept 1, 9:30 AM | Chlorine | 0.5 | 7.7 |
| UFS | Sept 5, 11:24 AM | Chlorine | 0.5 | 7.5 |
| | Sept 8, 9:36 AM | Chlorine | 0.5 | 7.6 |
| | Aug 27, 10:37 AM | Chlorine | 0.5 | 7.6 |
| UF4 | Aug 31, 11:06 AM | Chlorine | 0.5 | 7.3 |
| UF4 | Sept 3, 9:28 AM | Chlorine | 0.5 | 7.7 |
| | Sept 8, 11:45 AM | Chlorine | 0.5 | 7.5 |

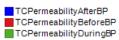
This has been adopted per recommendation.

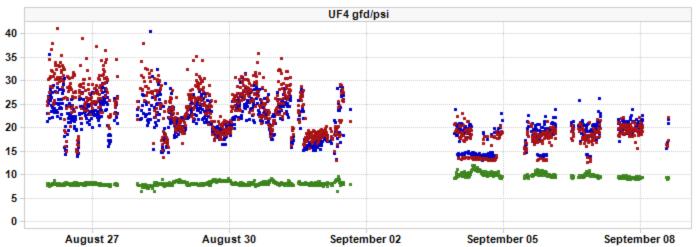
Acronvms:

TC = temperature corrected, BBP = before backpulse, RC = recovery clean, MC = maintenance clean, TMP = trans membrane pressure

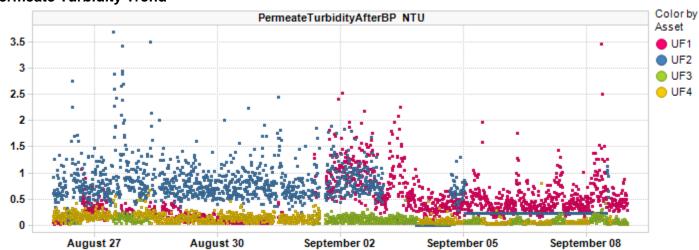
TC Permeability Trends By Train



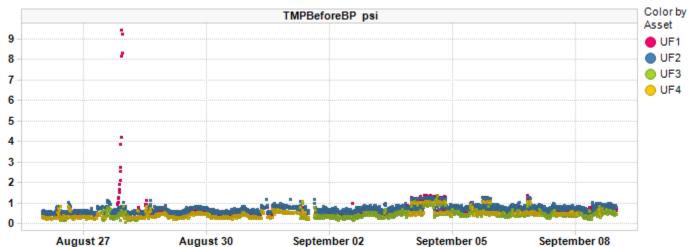




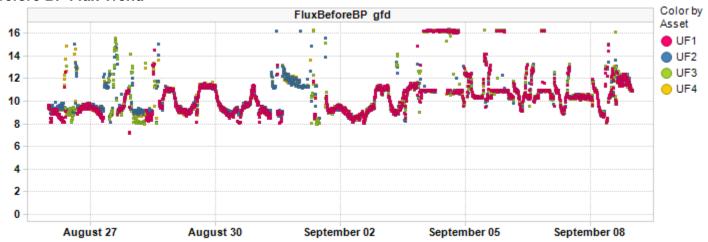
Permeate Turbidity Trend



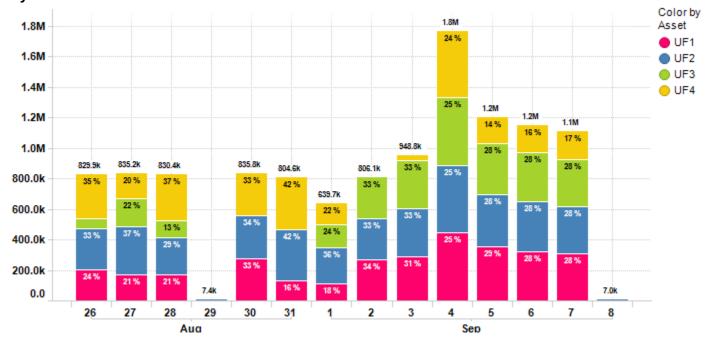
Before BPTMP Trend



Before BP Flux Trend



Daily Permeate Flow



Average Daily permeate flow from 8/26/2020 to 9/8/2020 is 841.2k gal with a maximum daily flow of 1.8M gal.

Asset Summary

| KPI Parameters | Value/Change | UF1 | UF2 | UF3 | UF4 |
|------------------------------|--------------|---------|----------|-----------|----------|
| FluxBeforeBP gfd | Value | 10.40 | 10.52 | 10.74 | 10.56 |
| | Change | 5.10 % | 4.17 % | -8.19 % | 5.10 % |
| FluxDuringBP gfd | Value | 18.84 | 18.53 | 18.58 | 18.77 |
| | Change | 0.06 % | -0.03 % | -0.63 % | 0.08 % |
| PermeateTurbidityAfterBP NTU | Value | 0.44 | 0.57 | 0.08 | 0.12 |
| | Change | 77.08 % | -21.19 % | -106.72 % | -21.24 % |
| TCPermeabilityBeforeBP | Value | 14.28 | 12.93 | 21.92 | 22.40 |
| gfd/psi | Change | -1.66 % | -7.79 % | -4.53 % | -9.85 % |
| TMPBeforeBP psi | Value | 0.66 | 0.70 | 0.45 | 0.44 |
| | Change | 11.69 % | 11.70 % | -12.79 % | 17.63 % |
| TotalPermeateFlowDaily gal | Value | 218.77k | 262.98k | 178.93k | 180.51k |
| | Change | 99.30 % | 99.46 % | 100.00 % | 98.51 % |

Plant Summary

| KPI Parameters | Value/Change | UF Plant |
|----------------------------|--------------|----------|
| TotalPermeateFlowDaily gal | Value | 926.32k |
| | Change | 99.54 % |

Contract Expiry Date: (Empty)

For InSight technical assistance please email insight.src@suez.com or please call technical support at 1 866 271 5425 or 905 469 7723 and follow the prompts, if you require after hours assistance please contact the 24/7 Emergency number provided in your plant documentation. This email is a summary of issues identified during a manual review of InSight data from the time period above. This review is an analysis of data that is logged by InSight and identifies key plant performance issues determined from this data. This data review was not focused on minor data issues but on identifying possible existing and/or upcoming critical operational issues.

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Overall performance is within operation parameters.

LEWES BPW WWTP Biweekly InSight Report

Date: 9/23/2020

From: Erin Horocholyn - Suez Water Technologies & Solutions

To: Dave Weed, Darrin Gordon

cc: Matt Stapleford - Suez Water Technologies & Solutions

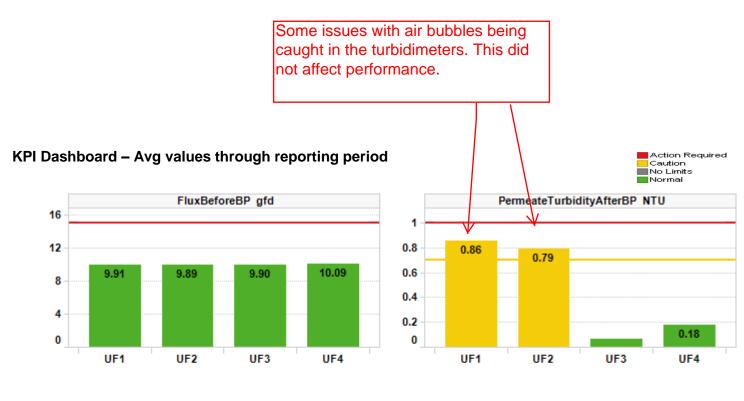
System Equipment

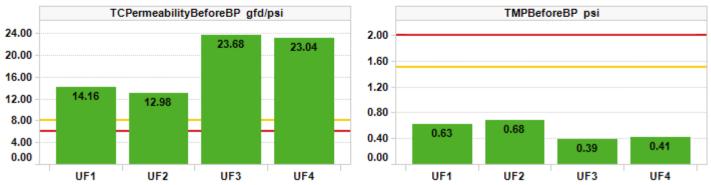
4 × ZW trains, each train consists of 4 - 500D cassettes, 120 modules x 370 sq. ft. per train (surface area 44,400 sq. ft. per train)

Replacement membranes installed Q1 2020 on all 4 trains

Cleaning Strategy

Recovery cleaning - 2 NaOCl @ 2000 ppm dose/1000 ppm soak per year, 1 Citric acid @ 2000 ppm per year Maintenance cleaning - 1 NaOCl per week @ 200 ppm, 1 Citric acid per week @ 2000 ppm

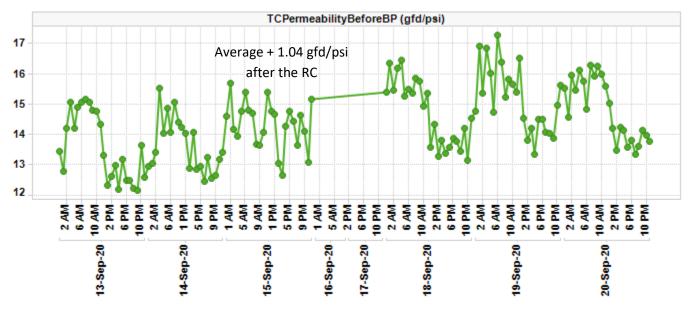




Plant Summary

Overall, the plant operated well. Turbidity has increased on UF1 and UF2. Acid MCs are now being scheduled on all trains. A recovery clean was run on UF1 over Sept 16 - 17, seeing a small permeability improvement of +1.04 psi/gfd.

- Train UF4 ran intermittently during this period, seeing some activity Sept 10, 14, 16, 17, and 21
- TC permeability BBP was good on all trains, and excellent on trains UF3 and UF4. UF1 and UF2 averaged 14.16 and 12.98 gfd/psi respectively. UF3 and UF4 averaged 23.68 and 23.04 gfd/psi respectively. For reference, TC permeability BBP is considered good above 8 gfd/psi
- Average TMP was great on all trains. UF1 and UF2 averaged 0.63 and 0.68 psi, while UF3 and UF4 averaged 0.39 and 0.41 psi. For reference, excellent TMP is below 1.0 psi
- Permeate turbidity was above 0.10 NTU on UF1, UF2, and UF4, averaging 0.86 (+48% higher than last report), 0.79 (+28% higher than last report), and 0.18 respectively. UF3 averaged 0.07 NTU. For reference, excellent turbidity is less than 0.1 NTU, and good turbidity less than approximately 0.3 NTU
- Flux ranged from 9.89 10.09 gfd and is mostly even across trains. Even flux between trains is beneficial for even wear across the membrane trains over time
- A recovery clean (RC) was run on UF1 from Sept 16 17th, first running with chlorine, then with citric acid, with a total of ~22 hours of soak time. Pre-RC permeability averaged 13.84 gfd/psi, and post-RC permeability averaged 14.88 gfd/psi, with a total increase of + 1.04 gfd/psi. TMP decreased from average 0.615 psi to 0.607 psi, with a total decrease of 0.008 psi. RC results are usually stronger with a larger impact, however the TMP was already fairly low before the cleaning. This may indicate there was not much foulants for the RC to remove at this time
- Below, the plot shows hourly averages for TC permeability, with a gap during the RC. The date range includes 3 days before and after the RC. The slight increase in permeability can be seen after the RC in the following days



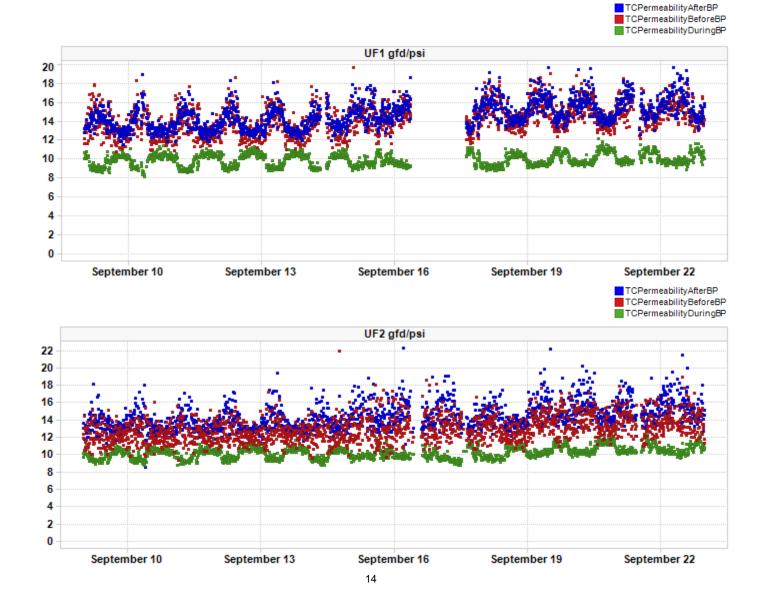
Acronyms

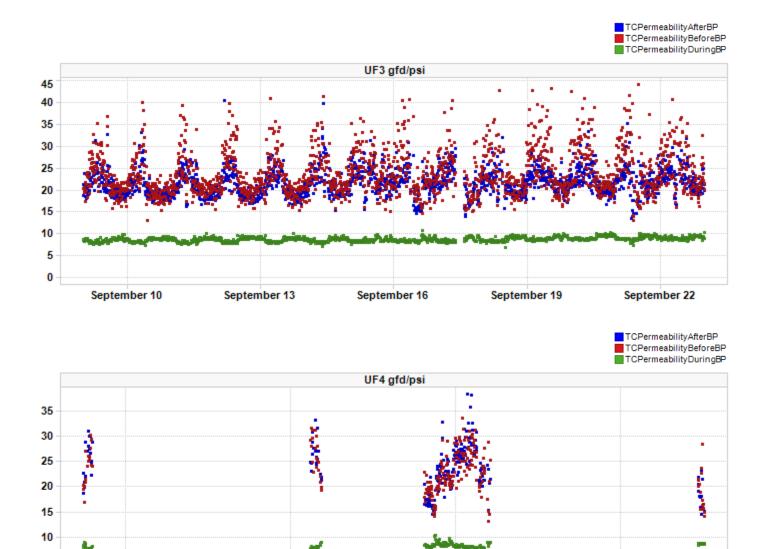
TC = temperature corrected, BBP = before backpulse, RC = recovery clean, MC = maintenance clean, TMP = trans membrane pressure

• Maintenance clean (MC) design specifies 1 hypochlorite/chlorine MC and 1 citric acid MC per week, per train. Design pH for hypochlorite MCs is maximum 10.5, and for citric acid MCs the ideal range is 2.5 – 3.5. There are currently about 2 hypochlorite MCs being run per week, per train, which is double the design requirements. As well, citric acid MCs are now being run at the design 1/week per train

| Asset | Date | MC Chemical | Asset | Date | MC Chemical |
|-------|---------|-------------|---------|----------|-------------|
| | Sept 8 | Chlorine | | Sept 8 | Chlorine |
| | Sept 10 | Chlorine | Sept 11 | Chlorine | |
| | Sept 14 | Chlorine | | Sept 14 | Acid |
| UF1 | Sept 14 | Acid | UF3 | Sept 15 | Chlorine |
| | Sept 17 | Chlorine | | Sept 18 | Chlorine |
| | Sept 21 | Chlorine | | Sept 21 | Acid |
| | Sept 21 | Acid | | Sept 22 | Chlorine |
| | Sept 8 | Chlorine | | Sept 8 | Chlorine |
| | Sept 11 | Chlorine | | Sept 10 | Chlorine |
| | Sept 14 | Acid | 1154 | Sept 14 | Chlorine |
| UF2 | Sept 15 | Chlorine | UF4 | Sept 14 | Acid |
| | Sept 18 | Chlorine | | Sept 21 | Chlorine |
| | Sept 21 | Acid | | Sept 21 | Acid |
| | Sept 22 | Chlorine | | | |

TC Permeability Trends By Train

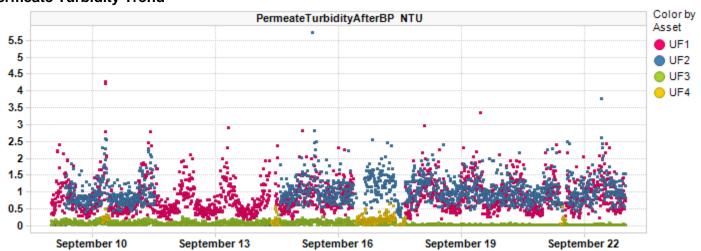




Permeate Turbidity Trend

September 11

5 0

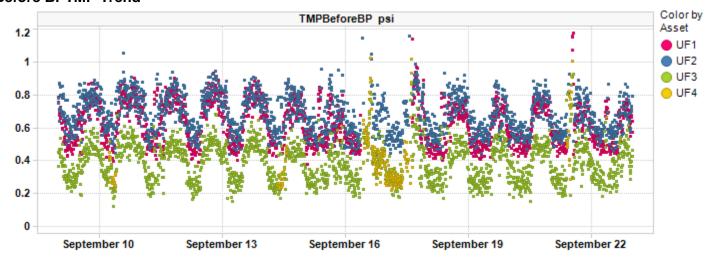


September 17

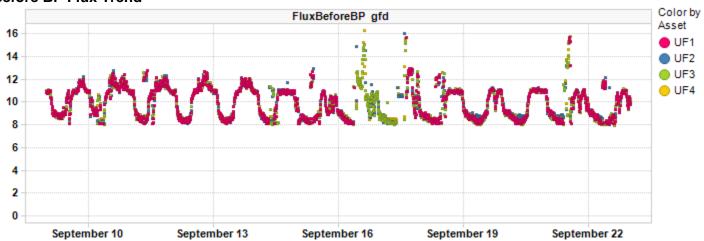
September 20

September 14

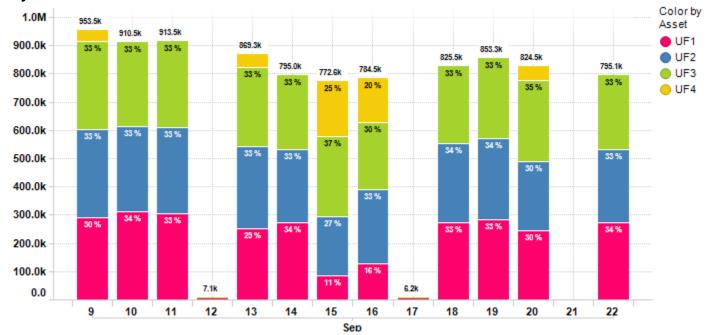
Before BPTMP Trend



Before BP Flux Trend



Daily Permeate Flow



Average Daily permeate flow from 9/9/2020 to 9/22/2020 is 716.2k gal with a maximum daily flow of 953.5k gal.

Asset Summary

| KPI Parameters | Value/Change | UF1 | UF2 | UF3 | UF4 |
|------------------------------|--------------|----------|----------|----------|-----------|
| FluxBeforeBP gfd | Value | 9.91 | 9.89 | 9.90 | 10.09 |
| | Change | -4.86 % | -6.36 % | -8.51 % | -4.71 % |
| FluxDuringBP gfd | Value | 18.86 | 18.61 | 18.53 | 18.87 |
| | Change | 0.11 % | 0.43 % | -0.23 % | 0.50 % |
| PermeateTurbidityAfterBP NTU | Value | 0.86 | 0.79 | 0.07 | 0.18 |
| | Change | 48.04 % | 27.72 % | -20.46 % | 33.13 % |
| TCPermeabilityBeforeBP | Value | 14.16 | 12.98 | 23.68 | 23.04 |
| gfd/psi | Change | -0.87 % | 0.41 % | 7.45 % | 2.77 % |
| TMPBeforeBP psi | Value | 0.63 | 0.68 | 0.39 | 0.41 |
| | Change | -5.40 % | -3.69 % | -14.34 % | -6.10 % |
| TotalPermeateFlowDaily gal | Value | 209.48k | 231.82k | 237.54k | 37.38k |
| | Change | -14.67 % | -22.73 % | 15.70 % | -382.96 % |

Plant Summary

| KPI Parameters | Value/Change | UF Plant |
|----------------------------|--------------|----------|
| TotalPermeateFlowDaily gal | Value | 808.69k |
| | Change | -23.49 % |

Contract Expiry Date: (Empty)

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Overall performance is within operation parameters

LEWES BPW WWTP Biweekly InSight Report

Date: 10/7/2020

From: Erin Horocholyn - Suez Water Technologies & Solutions

To: Dave Weed, Darrin Gordon

cc: Matt Stapleford - Suez Water Technologies & Solutions

System Equipment

4 × ZW trains, each train consists of 4 - 500D cassettes, 120 modules x 370 sq. ft. per train (surface area 44,400 sq. ft. per train)

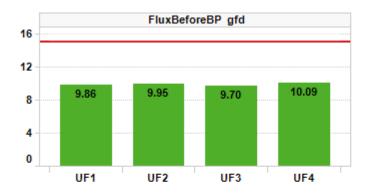
Replacement membranes installed Q1 2020 on all 4 trains

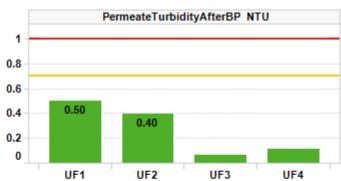
Cleaning Strategy

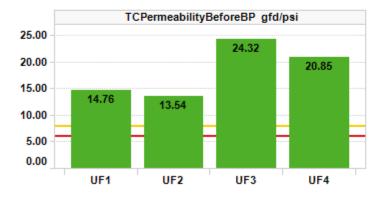
Recovery cleaning - 2 NaOCl @ 2000 ppm dose/1000 ppm soak per year, 1 Citric acid @ 2000 ppm per year Maintenance cleaning - 1 NaOCl per week @ 200 ppm, 1 Citric acid per week @ 2000 ppm

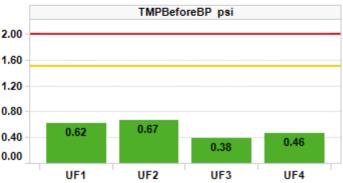
KPI Dashboard – Avg values through reporting period







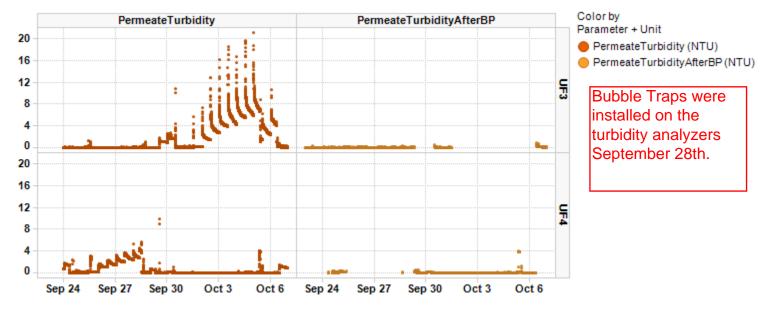




Plant Summary

Overall, the plant operated well. Turbidity has decreased on UF1 and UF2 since the previous report. A recovery clean was run on UF2 and UF3 on Sept 24 and 29th respectively. RC results did not improve permeability significantly.

- Daily permeate production averaged 859 kgal, excluding days without permeate production. Max flow occurred
 on Oct 2 at 964 kgal with UF1, UF2, and UF4 active. Average daily permeate production by train was 221 kgal for
 UF1, 175 kgal for UF2, 130 kgal for UF3, and 135 kgal for UF4
- Flux ranged from 9.70 10.09 gfd and is mostly even across trains. Even flux between trains is beneficial for even wear across the membrane trains over time
- TC permeability BBP was good on all trains, and excellent on trains UF3 and UF4. UF1 and UF2 averaged 14.76 and 13.54 gfd/psi respectively. UF3 and UF4 averaged 24.32 and 20.85 gfd/psi respectively. For reference, TC permeability BBP is considered good above 8 gfd/psi
- Average TMP was great on all trains. UF1 and UF2 averaged 0.62 and 0.67 psi, while UF3 and UF4 averaged 0.38 and 0.46 psi. For reference, excellent TMP is below 1.0 psi
- Permeate turbidity ABP was above 0.10 NTU on UF1, UF2, and UF4, averaging 0.50, 0.40, and 0.11 NTU
 respectively. Last report, UF1 and UF2 had turbidities above the High limit of 0.70 NTU; this report both train's
 turbidities have dropped to prior levels. UF3 averaged 0.07 NTU. For reference, excellent turbidity is less than
 0.1 NTU, and good turbidity less than approximately 0.3 NTU
- Comparing the tags PermeateTurbidity (PT) and PermeateTurbidityAfterBP (PTABP), there are some unusual PT trends apparent on UF3 and UF4. PTABP samples the raw data tag PT after each backpulse, and therefore can miss data present in PT if it occurs outside the data trigger to bring it into PTABP. In this case, both periods of spiking started when the train entered Standby and resolved when the train re-entered Production. The trends have resolved as of Oct 6 for UF1, and Sept 28 for UF2



- Maintenance clean (MC) design specifies 1 hypochlorite/chlorine MC and 1 citric acid MC per week, per train.
 Design pH for hypochlorite MCs is maximum 10.5, and for citric acid MCs the ideal range is 2.5 3.5
 - UF1 had 2 citric and 4 chlorine MCs over the past 2 weeks
 - UF2 had 1 citric and 4 chlorine MCs over the past 2 weeks
 - o UF3 and UF4 had 1 citric and 3 chlorine MCs over the past 2 weeks

• A recovery clean (RC) was run on UF2 on Sept 24, and on UF3 on Sept 29. UF2 and UF3 first ran chlorine and soaked for 19 hours, followed by citric with a 3-hour soak. Details are summarized in the table below. Both RCs saw little or no permeability increase. Design pH for chlorine RCs is maximum 10.5, and for citric acid RCs the ideal range is 2.5 – 3.5. During an RC it is good practice to measure pH throughout the clean to see if there is a changing trend as the chemical is consumed by foulants. If the pH strays outside these ranges, more chemical can be added to maintain the soak pH and target cleaning concentration

TCP = temperature corrected permeability before backpulse

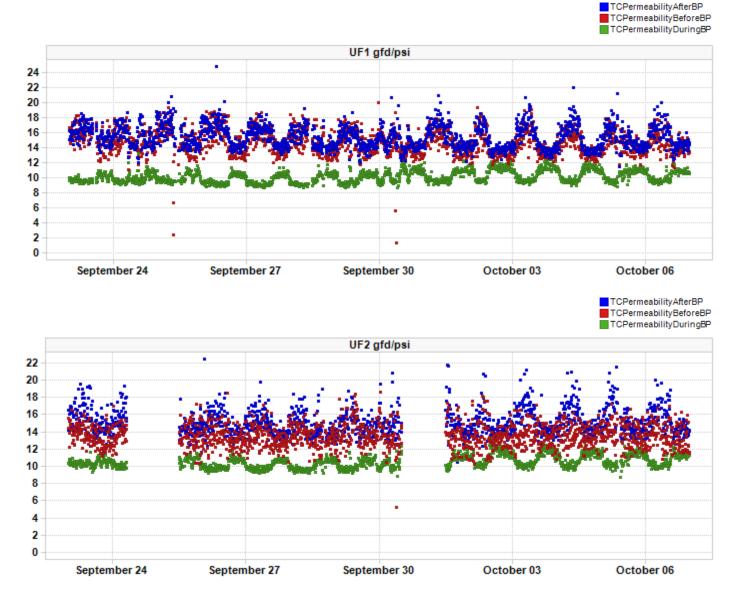
| Train | Date | Pre-RC TCP (gfd/psi) | Post-RC TCP (gfd/psi) | TCP Change (gfd/psi) |
|-------|---------|-------------------------|--------------------------|-------------------------|
| UF2 | Sept 24 | 13.64 | 13.61 | ~ 0 |
| UF3 | Sept 29 | 24.47 | 24.75 | + 0.27 |

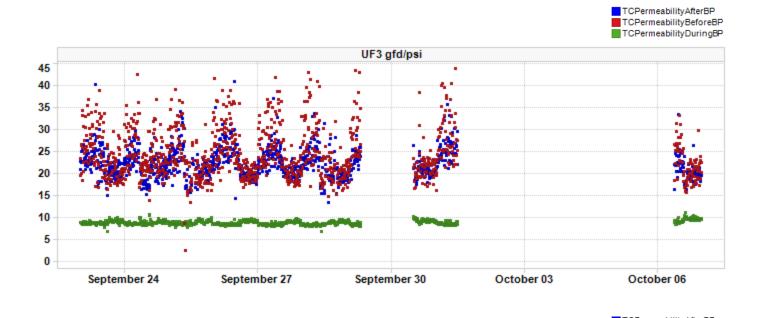
Bi-Annual Chlorine Recovery Cleans for all 4 trains have been completed.

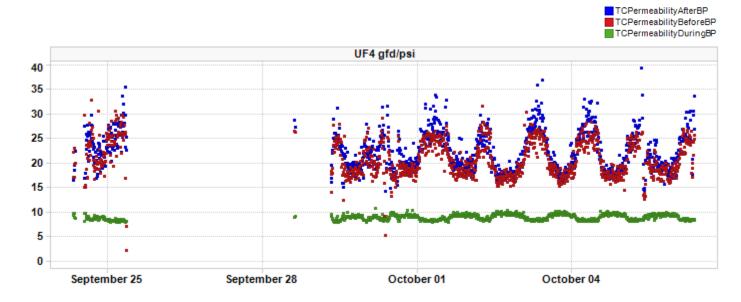
Acronyms:

TC = temperature corrected, BBP = before backpulse, ABP = after backpulse, RC = recovery clean, MC = maintenance clean, TMP = trans membrane pressure

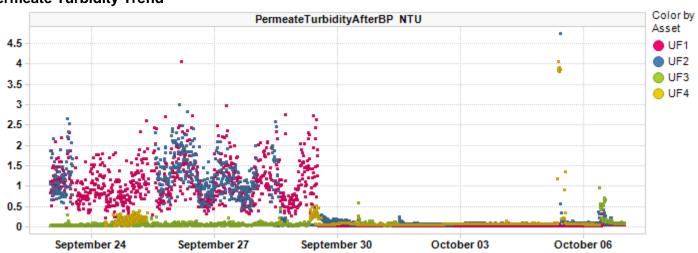
TC Permeability Trends By Train



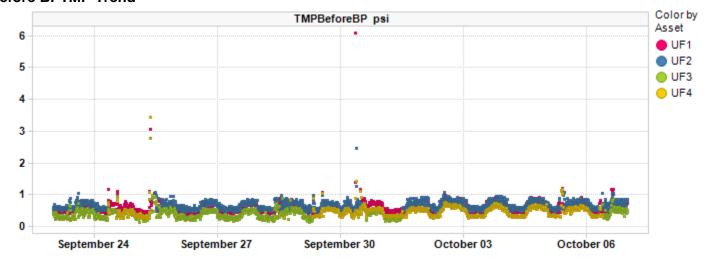




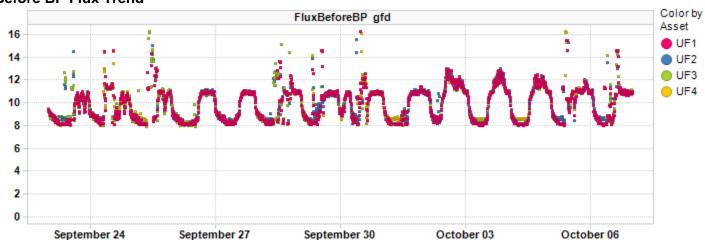
Permeate Turbidity Trend



Before BPTMP Trend



Before BP Flux Trend



Daily Permeate Flow



Average Daily permeate flow from 9/23/2020 to 10/6/2020 is 660.7k gal with a maximum daily flow of 963.5k gal.

Asset Summary

| KPI Parameters | Value/Change | UF1 | UF2 | UF3 | UF4 |
|------------------------------|--------------|----------|----------|----------|----------|
| FluxBeforeBP gfd | Value | 9.86 | 9.95 | 9.70 | 10.09 |
| | Change | -0.57 % | 0.59 % | -2.06 % | 0.05 % |
| FluxDuringBP gfd | Value | 18.85 | 18.67 | 18.54 | 18.85 |
| | Change | -0.04 % | 0.32 % | 0.03 % | -0.09 % |
| PermeateTurbidityAfterBP NTU | Value | 0.50 | 0.40 | 0.07 | 0.11 |
| | Change | -70.21 % | -99.12 % | 0.29 % | -57.03 % |
| TCPermeabilityBeforeBP | Value | 14.76 | 13.54 | 24.32 | 20.85 |
| gfd/psi | Change | 4.03 % | 4.15 % | 2.63 % | -10.52 % |
| TMPBeforeBP psi | Value | 0.62 | 0.67 | 0.38 | 0.46 |
| | Change | -1.59 % | -1.46 % | -1.58 % | 10.51 % |
| TotalPermeateFlowDaily gal | Value | 220.93k | 175.22k | 129.53k | 135.06k |
| | Change | 5.18 % | -32.30 % | -83.39 % | 72.33 % |

Plant Summary

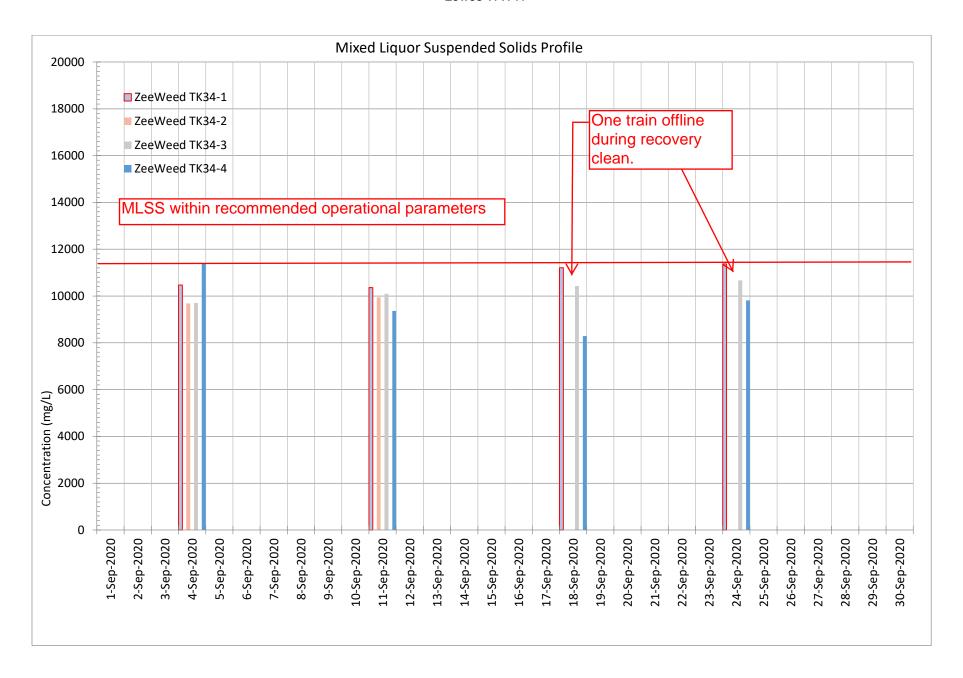
| KPI Parameters | Value/Change | UF Plant |
|----------------------------|--------------|----------|
| TotalPermeateFlowDaily gal | Value | 746.77k |
| | Change | -8.29 % |

Contract Expiry Date: (Empty)

For InSight technical assistance please email insight.src@suez.com or please call technical support at 1 866 271 5425 or 905 469 7723 and follow the prompts, if you require after hours assistance please contact the 24/7 Emergency number provided in your plant documentation. This email is a summary of issues identified during a manual review of InSight data from the time period above. This review is an analysis of data that is logged by InSight and identifies key plant performance issues determined from this data. This data review was not focused on minor data issues but on identifying possible existing and/or upcoming critical operational issues.

This review was prepared by SUEZ Water Technologies & Solutions solely to assist water treatment plant owners and/or operators in analyzing and optimizing plant performance and is not intended to be used or relied upon for regulatory compliance or any other purpose. The content of this review is based in whole or in part on operation data obtained from the plant using InSight software. SUEZ Water Technologies & Solutions makes no representations or warranties as to the accuracy of the plant data utilized in the preparation of this review. SUEZ Water Technologies & Solutions accepts no liability for consequences or actions taken in whole or in part by any person on the basis of this review or its contents

Overall performance is within operation parameters



| PUMP STA | TIC | ON | 196 |
|----------|-----|----------|----------|
| Sep-20 | | PS 196 | · |
| | | METER | 24 HOUR |
| | | READING | FLOW |
| TUE | 1 | 75706830 | 0.101990 |
| WED | 2 | 75808820 | 0.210570 |
| THUR | 3 | 76019390 | 0.296790 |
| FRI | 4 | 76316180 | 0.287780 |
| SAT | 5 | 76603960 | 0.275530 |
| SUN | 6 | 76879490 | 0.268680 |
| MON | 7 | 77148170 | 0.262230 |
| TUE | 8 | 77410400 | 0.236740 |
| WED | 9 | 77647140 | 0.213000 |
| THUR | 10 | 77860140 | 0.237660 |
| FRI | 11 | 78097800 | 0.240250 |
| SAT | 12 | 78338050 | 0.234780 |
| SUN | 13 | 78572830 | 0.237080 |
| MON | 14 | 78809910 | 0,216160 |
| TUE | 15 | 79026070 | 0.166020 |
| WED | 16 | 79192090 | 0.138070 |
| THUR | 17 | 79330160 | 0.143170 |
| FRI | 18 | 79473330 | 0.152320 |
| SAT | 19 | 79625650 | 0.149330 |
| SUN | 20 | 79774980 | 0.200400 |
| MON | 21 | 79975380 | 0.190150 |
| TUE | 22 | 80165530 | 0.190780 |
| WED | 23 | 80356310 | 0.187330 |
| THUR | 24 | 80543640 | 0.188120 |
| FRI | 25 | 80731760 | 0.189420 |
| SAT | 26 | 80921180 | 0.209040 |
| SUN | 27 | 81130220 | 0.219950 |
| MON | 28 | 81350170 | 0.225640 |
| TUE | 29 | 81575810 | 0.269950 |
| WED | 30 | 81845760 | 0.228420 |
| | | 82074180 | |
| | | | |
| TOTAL | | | 6.367350 |
| COUNT | | | 30 |
| AVERAGE | | | 0.212245 |
| MINIMUM | | | 0.101990 |
| MAXIMUM | ļ | | 0.296790 |

Sussex County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMITTEE NAME/ADDRESS (include Facility Name/Location if different):

DISCHARGE MONITORING REPORT (DMR)

| NAME | Howard Seymour Water Reclamation Plant | | | | | | |
|---|--|--|--|--|--|--|--|
| ADDRESS | 116 American Legion Road, Lewes, DE 19958 US | | | | | | |
| FACILITY | Howard Seymour Water Reclamation Plant | | | | | | |
| 20 10 10 10 10 10 10 10 10 10 10 10 10 10 | | | | | | | |

DE0021512 PERMIT NUMBER

MONITORING PERIOD

001 DISCHARGE NUMBER REPORT DESIGNATOR
DATA ENTRY COMPLETE
REPORT SUBMITTED BY

A 10/9/2020 jmarion@tuiwater.com

om

| LOC | ATION 116 American L | egion Road, Lewe | es, DE | 19958 US | FROM | 2020 09 0 | 1 TO | 2020 09 30 | STATUS OF SUBMISS | SION Su | bmitted | for Signature | |
|-----|------------------------|-----------------------|--------|-------------------------------|------------------------------|------------------|-------------------------------|-------------------------------|-------------------------------|-----------------|------------|--------------------------|--------------|
| | PARAMETER | | NDI | QUAN | TITY OR LOADIN | IG | | QUALITY OR CON | CENTRATION | | NO. EX. | FREQUENCY OF ANALYSIS | SAMPLE TYP |
| # | | | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| 1/1 | Flow | SAMPLE MEASUREMENT | - | 0.877 | 1.6004 | Mil Gal/Day | | | Harrison | | 0 | 99/99 | RCOTOT |
| | Gross Effluent (50050) | PERMIT REQUIREMENT | - | No Limit Monitoring Reqd | No Limit Monitoring Req | Mil d Gal/Day | No Monitoring Required | No Monitoring Required | No Monitoring Required | - | - | 99/99 | RCOTOT |
| 1/2 | Dissolved oxygen (DO) | SAMPLE MEASUREMENT | | | | - | 2.92 | | 4.8 | mg/I | 0 | 99/99 | Imersion |
| | Gross Effluent (00300) | PERMIT REQUIREMENT | | No Monitoring Required | No Monitoring Required | | No Limit Monitoring Requ | No Monitoring Required | No Limit Monitoring Reqd | mg/l | - | 99/99 | Imersion |
| 1/3 | рН | SAMPLE MEASUREMENT | | | | - | 7.3 | (STATE) | 7.6 | Std pH Units | 0 | 01/01 | Grab |
| | Gross Effluent (00400) | PERMIT REQUIREMENT | - | No Monitoring Required | No Monitoring Required | 114 | 6 | No Monitoring Required | 9 | Std pH Units | - | 01/01 | Grab |
| 1/4 | Enterococcus | SAMPLE MEASUREMENT | | | K | - | | <1.2 | 2 | CFU/10 ML | 0 | 01/07 | Grab |
| | Gross Effluent (31639) | PERMIT REQUIREMENT | - | No Monitoring Required | No Monitoring Required | - | No Monitoring Required | 10 | 104 | CFU/10 | - 10 | 01/07 | Grab |
| 1/5 | BOD5 | SAMPLE MEASUREMENT | | <2.67 | <19.37 | lbs/Day | | <2.4 | <2.4 | mg/l | 0 | 01/07 | Composite 2 |
| | Gross Effluent (00310) | PERMIT REQUIREMENT | 1- | 188 | 288 | lbs/Day | No Monitoring Required | 15 | 23 | mg/l | - | 01/07 | Composite 2 |
| 1/6 | BOD5 | SAMPLE MEASUREMENT | | | | - | | 190.2 | 213 | mg/l | 0 | 01/30 | Composite 2 |
| | Raw Sewage (00310) | PERMIT REQUIREMENT | • | No Monitoring Required | No Monitoring Required | | No Monitoring Required | No Limit Monitoring Reqd | No Limit Monitoring Reqd | mg/l | - | 01/30 | Composite 24 |
| /7 | TSS | SAMPLE MEASUREMENT | | <0.85 | <9.82 | lbs/Day | | <0.78 | <1.4 | mg/l | 0 | 01/07 | Composite 2 |
| | Gross Effluent (00530) | PERMIT REQUIREMENT | | 188 | 288 | lbs/Day | No Monitoring Required | 15 | 23 | mg/l | | 01/07 | Composite 24 |

| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL | [ATTACH DIGITAL SIGNATURE RECEIPT FROM CROMERRI | TELEPHONE | DATE | | |
|--|--|---|-----------|------|------|----|
| | PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE | | | | 5000 | T |
| | AND COMPLETE, I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION. | SIGNATURE OF PRINCIPAL EXECUTIVE | | 1 | | |
| TYPED OR PRINTED | INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. | OFFICER OR AUTHORIZED AGENT | | YEAR | МО | DA |

NDI (No Data Indicator) Reasons: 8 - No Sample (Other); 9 - No Sample (Monitoring Not Required this Monitoring Period); B - Not Detected; C - No Sample (No Discharge)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMITTEE NAME/ADDRESS (include Facility Name/Location if different):

DISCHARGE MONITORING REPORT (DMR)

| | ~ A SECOND A SECOND AND A SECOND | | promote the second seco | | |
|--|--|-----------------|--|----------------------|--------------------|
| AME | Howard Seymour Water Reclamation Plant | DE0021512 | 001 | REPORT DESIGNATOR | Α |
| DDRESS | 116 American Legion Road, Lewes, DE 19958 US | PERMIT NUMBER | DISCHARGE NUMBER | DATA ENTRY COMPLETE | 10/9/2020 |
| ACILITY Howard Seymour Water Reclamation Plant | | MONITORI | NG PERIOD | REPORT SUBMITTED BY | jmarion@tuiwater. |
| | 440 American Lorian Road Lower DE 10059 US | FROM 2020 00 01 | TO 2020 09 30 | STATUS OF SUBMISSION | Submitted for Sign |

| AME | Howard Seymour Water Recla | amation Plant | | DE | .0021512 | | 100 | | | | |
|---------------------|-----------------------------|------------------|----------|-----------------|-----------------------|------------------|------------------|---------------------|----------------------|------------|-----------------------|
| DDRESS | 116 American Legion Road, L | ewes, DE 19958 U | S | PERM | NIT NUMBER | DISCHARGE NUMBER | | DATA ENTRY COMPLETE | | 10/9/2020 | |
| ACILITY | Howard Seymour Wa | | | | MONITO | RING PERIOD | REPORT SUBMITTED | D BY jma | jmarion@tuiwater.com | | |
| OCATION | 116 American Legior | Road, Lewes, DE | 19958 US | FROM | 2020 09 01 | то | 2020 09 30 | STATUS OF SUBMIS | SION Sub | mitted | for Signature |
| | PARAMETER | NDI | QUA | NTITY OR LOADIN | NG | | QUALITY OR COM | CENTRATION | | NO. EX. | FREQUENC OF ANALYS |
| | | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | |
| A - co- the reserve | | | | | Total Control Control | | 10701 | 011 | | 1 0 | 04/20 |

| | PARAMETER | | NDI | QUAN | TITY OR LOADING | | QUALITY OR CONCENTRATION | | | 0.000 | NO. EX. | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|-----|------------------------|-----------------------|-----|---------------------------|-------------------------------|---------|---------------------------|-------------------------------|-------------------------------|-------|------------|--------------------------|--------------|
| # | | | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| 2/1 | TSS | SAMPLE MEASUREMENT | | But sit | | | | 165.34 | 214 | mg/l | 0 | 01/30 | Composite 24 |
| | Raw Sewage (00530) | PERMIT REQUIREMENT | - | No Monitoring Required | No Monitoring Required | | No Monitoring Required | No Limit Monitoring Reqd | No Limit Monitoring Reqd | mg/l | - | 01/30 | Composite 24 |
| 2/2 | Total Nitrogen | SAMPLE MEASUREMENT | | 20.04 | 22.11 | lbs/Day | | 2.74 | 2.74 | mg/I | 0 | 01/30 | Composite 24 |
| | Gross Effluent (00600) | PERMIT REQUIREMENT | | 100 | No Limit Monitoring Regd | lbs/Day | No Monitoring Required | 8 | No Limit Monitoring Reqd | mg/l | - | 01/30 | Composite 24 |
| 2/3 | | SAMPLE MEASUREMENT | | 4.97 | 5.49 | lbs/Day | | 0.68 | 0.68 | mg/l | 0 | 01/30 | Composite 24 |
| | Gross Effluent (00665) | PERMIT REQUIREMENT | - | 25 | No Limit Monitoring Regd | lbs/Day | No Monitoring Required | 2 | No Limit Monitoring Reqd | mg/l | | 01/30 | Composite 24 |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

All parameters within permit limits.

| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY | [ATTACH DIGITAL SIGNATURE RECEIPT FROM | TELEPHONE | | DATE | ě |
|--|---|--|-----------|------|------|-----|
| NAIME/THEE PRINCIPAL EXECUTIVE OF TOLK | DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. SASED ON MY NIGURITY OF THE PERSON OR PERSONS WITH OMANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELLEF, TRUE, ACCURATE, | SIGNATURE OF PRINCIPAL EXECUTIVE | | | | |
| TYPED OR PRINTED | AND COMPLETE, I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. | OFFICER OR AUTHORIZED AGENT | | YEAR | МО | DAY |

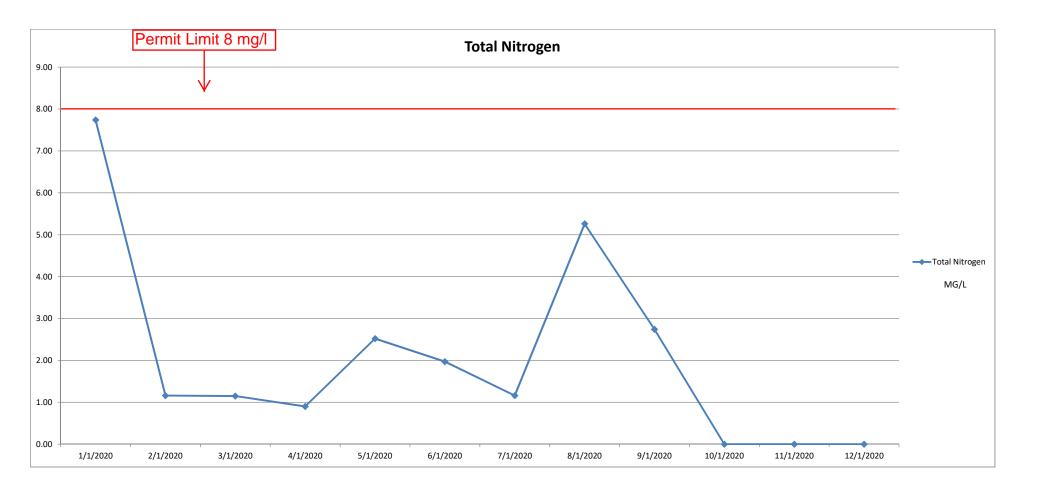
NDI (No Data Indicator) Reasons: 8 - No Sample (Other); 9 - No Sample (Monitoring Not Required this Monitoring Period); B - Not Detected; C - No Sample (No Discharge)

LEWES WWTF

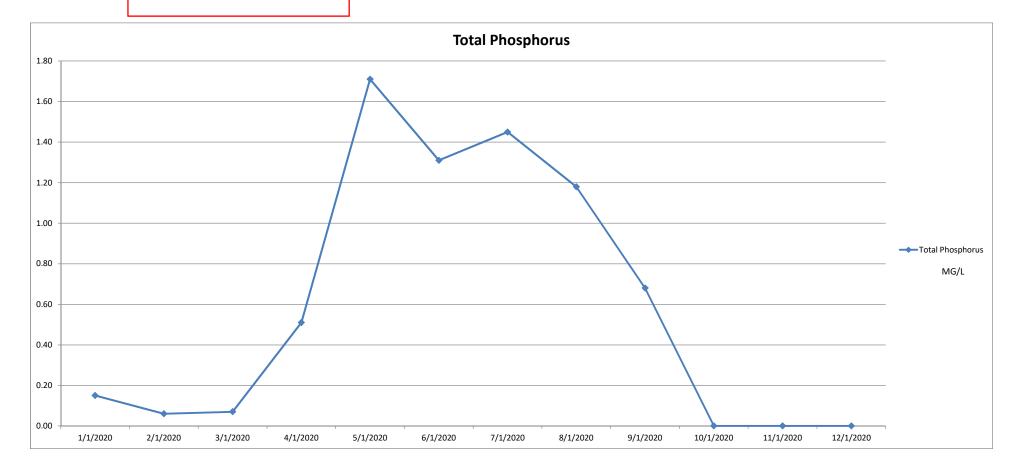
NUTRIENT OFFSET REPORT

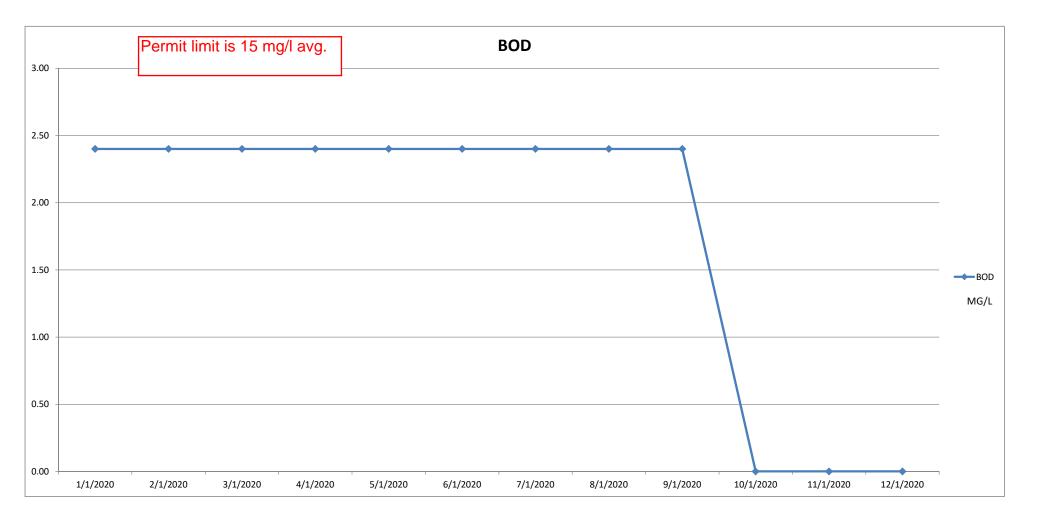
| MONTH | Days | Average Monthly Flow | Monthly Average TN | Total Monthly TN Discharged | TN Based 11.8 lbs Manure Offset Required | Poultry Manure Relocated | | Relocated | | 8 lbs nure Relocated guired | | Poultry Manure Offset Balance | Monthly Average TP | Total Monthly TP Discharged | TP Based 11.8 lbs Manure Offset Required |
|-----------------|--|----------------------------|--------------------------|---|--|---|------|--------------|---|-----------------------------|---------|--|--------------------------|-----------------------------------|--|
| | | MGD | mg/L | Lbs. | Lbs. | Tons | Lbs. | Lbs. | mg/L | Lbs. | Lbs. | | | | |
| Carry Over | West Committee C | | | | | | | 3,195,312.26 | | | | | | | |
| January | 31 | 0.6789 | 7.74 | 1358.55 | 16030.85 | *************************************** | - | 3,179,281.41 | 0.15 | 26.33 | 310.68 | | | | |
| February | 29 | 0.8255 | 1.16 | 231.60 | 2732.88 | | - | 3,176,548.53 | 0.06 | 11.58 | 136.64 | | | | |
| March | 31 | 0.8058 | 1.15 | 239.58 | 2827.06 | | - | 3,173,721.47 | 0.07 | 14.58 | 172.08 | | | | |
| April | 30 | 0.6604 | 0.90 | 148.71 | 1754.76 | | - | 3,171,966.70 | 0.51 | 84.27 | 994.37 | | | | |
| May | 31 | 0.7431 | 2.52 | 484.15 | 5712.91 | | - | 3,166,253.79 | 1.71 | 328.53 | 3876.62 | | | | |
| June | 30 | 0.9442 | 1.97 | 465.39 | 5491.61 | | - | 3,160,762.18 | 1.31 | 309.47 | 3651.78 | | | | |
| July | 31 | 0.9745 | 1.16 | 292.26 | 3448.65 | | - | 3,157,313.53 | 1.45 | 365.32 | 4310.82 | | | | |
| August | 31 | 0.7711 | 5.26 | 1048.63 | 12373.89 | | - | 3,144,939.64 | 1.18 | 235.25 | 2775.89 | | | | |
| September | 30 | 0.8770 | 2.74 | 601.23 | 7094.46 | | - | 3,137,845.18 | 0.68 | 149.21 | 1760.67 | | | | |
| October | 31 | | | 0.00 | 0.00 | | - | 3,137,845.18 | | 0.00 | 0.00 | | | | |
| November | 30 | | 1 | 0.00 | 0.00 | | - | 3,137,845.18 | | 0.00 | 0.00 | | | | |
| December | 31 | | | 0.00 | 0.00 | | - | 3,137,845.18 | 414 2 22 22 22 22 22 22 22 22 22 22 22 22 | 0.00 | 0.00 | | | | |
| Year Balance | Cara e William | | | W - 20 - 30 - 20 - 20 - 20 - 20 - 20 - 20 | | | | 3,137,845.18 | | | | | | | |

| Comments: | | | |
|-----------|------------------------|-----------|--|
| | () ma | | |
| | Jol B. Mc | 10/9/2020 | |
| | Authorized Signatory (| DATE | |

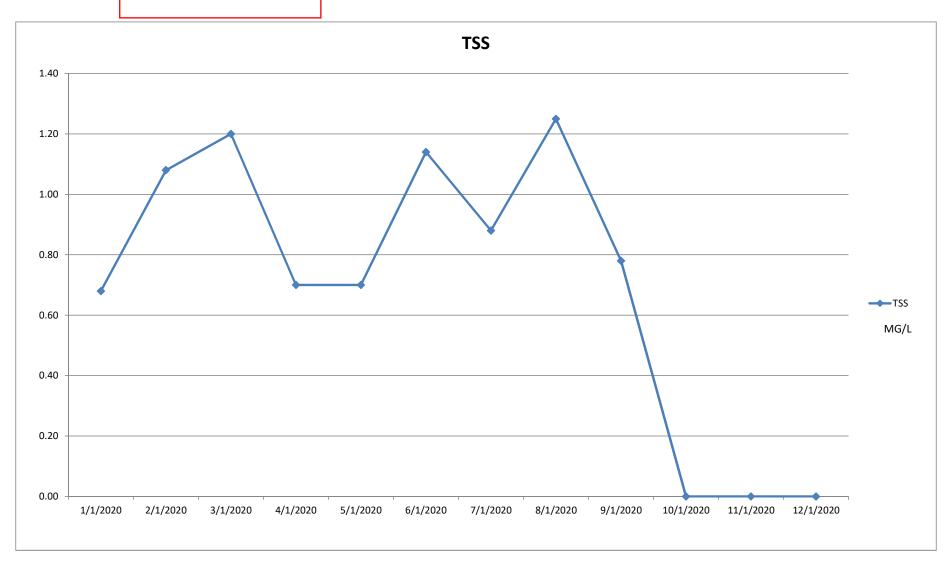


Permit Limit is 2 mg/l avg.

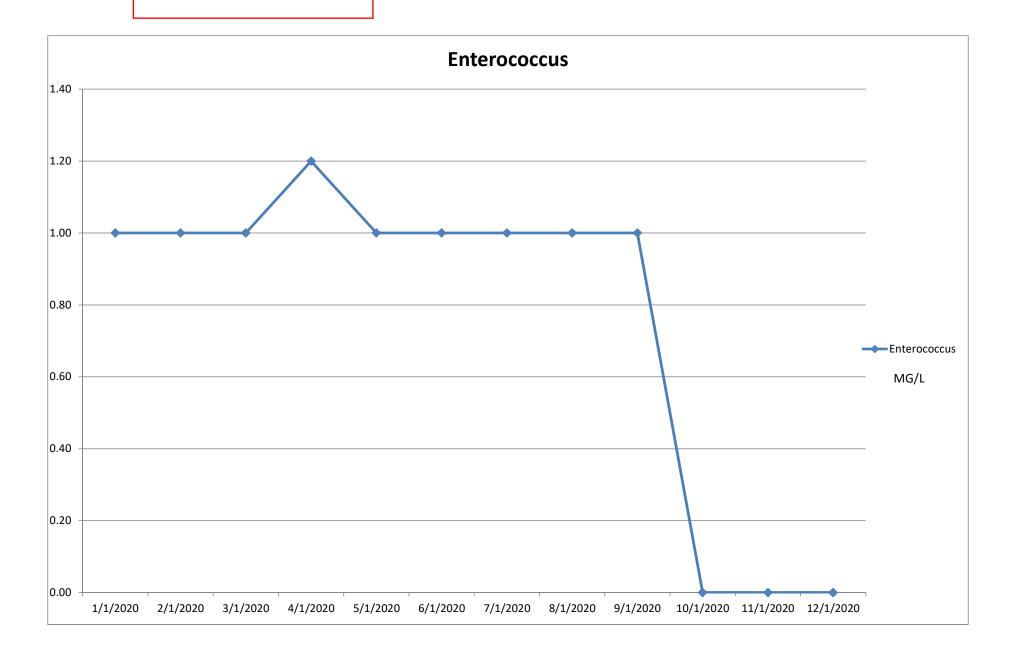




Permit limit is 15 mg/l avg.



Permit limit is 10 coliform avg.



WHITE MARSH ENVIRONMENTAL SYSTEMS, INC. MONTHLY OPERATING REPORT - LEWES WASTEWATER TREATMENT PLANT ROOT CAUSE REPORT - CORRECTIVE ACTIONS SUMMARY - SEPTEMBER 2020

| | Action | Status Open/ Complete/ | |
|-----------------|--|--|--|
| Due Date | Owner | Ongoing | Comments/Notes |
| May 2020 | BPW | Complete | Installation is complete. |
| February 2020 | WMES | Complete | Reset as of February 13, 2020. |
| February 2020 | WMES | Complete | New model turbidity monitors installed as of February 13, 2020. |
| February 2020 | BPW | Complete | GMB performed their first walkthrough for the BPW on February 18, 2020. Paul Peris of WMES accompanied GMB on the walkthrough. WMES received a copy of the report from the first walkthrough on 4-30-20. Second walkthrough was performed on 5-19-20. |
| 5/1/2020 | BPW | Complete | Darrin Gordon issued an Updated Suez O and M Manual in electronic format to WMES representative on March 3, 2020. WMES is maintaining the electronic version and a hard copy desk version on-site at the Howard H. Seymour Water Reclamation Facility. |
| ıl 5/1/2020 | BPW | Complete | Suez notified the BPW and WMES that the PLC was shipped on April 29, 2020. When the PLC is received by the BPW, it will be installed by the BPW's consultant (Keystone) in consultation with Suez. Programming of new panel scheduled for week of 6-15-20. Suez technician was onsite 6/15/20 to upload the programming for the new control panel. The Insight system is no online due to communication issues. BPW, Josh Gritton, is working with Suez and Keystone to solve the issue. 7/30/20 - Insight system is online and communicating to Suez as of 6/10/20. |
| g: 6/30/2020 | BPW | Open | |
| 6/30/2020 | BPW | Open | |
| 6/30/2020 | BPW | Open | |
| 6/30/2020 | BPW | Open | |
| 5/16/2020 | WMES | Complete | Included in April Monthly Report to BPW. |
| a | May 2020 February 2020 February 2020 February 2020 5/1/2020 all 5/1/2020 g: 6/30/2020 6/30/2020 6/30/2020 | Due Date Owner May 2020 BPW February 2020 WMES February 2020 BPW 5/1/2020 BPW al 5/1/2020 BPW g: 6/30/2020 BPW 6/30/2020 BPW 6/30/2020 6/30/2020 BPW 6/30/2020 6/30/2020 BPW 6/30/2020 6/30/2020 BPW 6/30/2020 BPW 6/30/2020 BPW | Due Date Open/Owner Complete/Ongoing May 2020 BPW Complete February 2020 WMES Complete February 2020 WMES Complete February 2020 BPW Complete 5/1/2020 BPW Complete al 5/1/2020 BPW Complete g: 6/30/2020 BPW Open 6/30/2020 BPW Open |

WHITE MARSH ENVIRONMENTAL SYSTEMS, INC. MONTHLY OPERATING REPORT - LEWES WASTEWATER TREATMENT PLANT ROOT CAUSE REPORT - CORRECTIVE ACTIONS SUMMARY - SEPTEMBER 2020

Status

| | | | O a/ | |
|---|-----------------|----------|------------------|--|
| | | A -4 | Open/ | |
| | | Action | Complete/ | |
| Action Item | Due Date | Owner | Ongoing | Comments/Notes |
| 9. Improve reporting requirements from WMES to BPW for: | 5/16/2020 | WMES | Complete/Ongoing | Started in April Monthly Report to BPW. |
| a. Off-normal conditions at the plant | 5/16/2020 | WMES | Complete/Ongoing | Started in April Monthly Report to BPW. |
| b. Discharges outside of Permit limits | 5/16/2020 | WMES | Complete/Ongoing | Started in April Monthly Report to BPW. |
| c. OHSA accidents | 5/16/2020 | WMES | Complete/Ongoing | Started in April Monthly Report to BPW. |
| d. Details included in monthly reports (to include trending of performance data, trending of equipment failures, preventative | | | | |
| maintenance required, suggested capital improvements and other concerns) | 5/16/2020 | WMES | Complete/Ongoing | Started in April Monthly Report to BPW. |
| e. WMES to present their report at the monthly BPW meeting | 5/16/2020 | WMES | Complete/Ongoing | Started in April Monthly Report to BPW. |
| f. Require, as per the contract, a detailed yearly reporting on the operation of the plant to include the items listed in a. through d. | 1/15/2021 | WMES | Open | To be included in Annual Report to BPW beginning with the 2020 Annual Report. |
| 10. BPW staff to strengthen its oversight of Operators performance | | | | |
| a. Through the review of trending data in monthly and annual reports | 5/16/2020 | BPW | Complete/Ongoing | BPW indicates that its staff will commence this as part of the April monthly report process. |
| b. Schedule routine plant walk through with plant WMES management | 5/16/2020 | BPW | Complete/Ongoing | BPW indicates that its staff will commence this as part of the April monthly report process. |
| c. Annual review of WMES Policies and Procedures | 5/16/2020 | BPW | Complete/Ongoing | BPW indicates that its staff will commence this as part of the April monthly report process. |
| d. Reporting to the BPW Board of condition of the plant | 5/16/2020 | BPW | Complete/Ongoing | BPW indicates that its staff will commence this as part of the April monthly report process. |
| e. Developing of an open Item tracking system | 5/16/2020 | BPW | Complete/Ongoing | BPW indicates that its staff will commence this as part of the April monthly report process. |
| 11. BPW Board of Directors to review its oversight function of the operation of the BPW.a. Continue to use outside subject matter experts such as Sargent and Lundy, Suez, GMB, etc. to provide the Board with guidance on the condition of the BPW systemsb. Perform audit by a sub-group of the Board of the BPW operation and management systems | Annually | BPW | Open | To be completed annually by BPW. Schedule to be determined and added to tracking list that will be developed in Corrective Action 10. e. |
| 12. WMES to develop plans for operating plant in off-normal conditions. BPW provided WMES with a Best Practices template and | | | | WMES portion complete, to be submitted as part of the amended March 2020 Monthly Report to the |
| copy of the prior operating company plan. This should include, but not be limited to: | 4/16/2020 | WMES/BPW | Complete/Open | BPW. BPW portion Open; to be done by BPW Engineering Consultant. |
| a. Loss of filter membrane | 4/16/2020 | WMES/BPW | Complete/Open | WMES portion complete, to be submitted as part of the amended March 2020 Monthly Report to the BPW. BPW portion Open; to be done by BPW Engineering Consultant. |
| | | | rr | WMES portion complete, to be submitted as part of the amended March 2020 Monthly Report to the |
| b. Digesters | 4/16/2020 | WMES/BPW | Complete/Open | BPW. BPW portion Open; to be done by BPW Engineering Consultant. |
| c. Other critical equipment | 4/16/2020 | WMES/BPW | Complete/Open | WMES portion complete, to be submitted as part of the amended March 2020 Monthly Report to the BPW. BPW portion Open; to be done by BPW Engineering Consultant. |
| | | | | WMES portion complete, to be submitted as part of the amended March 2020 Monthly Report to the |
| d. Loss of Power | 4/16/2020 | WMES/BPW | Complete/Open | BPW. BPW portion Open; to be done by BPW Engineering Consultant. WMES portion complete, to be submitted as part of the amended March 2020 Monthly Report to the |
| e. Storm response | 4/16/2020 | WMES/BPW | Complete/Open | BPW. BPW portion Open; to be done by BPW Engineering Consultant. |
| f. Security Breach | 4/16/2020 | WMES/BPW | Complete/Open | WMES portion complete, to be submitted as part of the amended March 2020 Monthly Report to the BPW. BPW portion Open; to be done by BPW Engineering Consultant. |
| g. Terrorist/cyber terrorist attack | 4/16/2020 | WMES/BPW | Complete/Open | WMES portion complete, to be submitted as part of the amended March 2020 Monthly Report to the BPW. BPW portion Open; to be done by BPW Engineering Consultant. |

WHITE MARSH ENVIRONMENTAL SYSTEMS, INC. MONTHLY OPERATING REPORT - LEWES WASTEWATER TREATMENT PLANT ROOT CAUSE REPORT - CORRECTIVE ACTIONS SUMMARY - SEPTEMBER 2020

Status

| | | | Open/ | |
|---|--------------|--------|-----------|--|
| | | Action | Complete/ | |
| Action Item | Due Date | Owner | Ongoing | Comments/Notes |
| 13. BPW to look at other areas of its operation to determine if there are generic implications from the failure at the WWTF a. Evaluate the operation of the Water Department, electrical department and other areas of BPW operation to determine where improvements in Management practices are needed. | Undetermined | BPW | Open | Status: In process – Sargent & Lundy is currently performing a review of the BPW electrical system and will provide input to BPW for future capital projects and areas of improvement. Review quarterly at monthly BPW meeting |
| 14. Require all WMES operational staff to have appropriate training by Suez on the proper operation and maintenance of the filters and plant | 5/16/2020 | WMES | Complete | Information included in April Monthly Report to BPW. WMES continues to follow-up with Suez on any training opportunities. Covid-19 pandemic has caused previously scheduled opportunites to be cancelled. Suez is looking at potentially having virtual training sessions. Suez will notify WMES if this becomes available. Suez providing training on the Insight system on August 13, 2020. Train is complete. |
| 15. WMES to review its safety manual to verify they are complying with the appropriate CDC guidelines and industry best practices for sanitary conditions. Post the appropriate areas of the plant as no-smoking/no-eating | 4/16/2020 | WMES | Complete | Commitment due as part of the March 2020 Monthly Report to the BPW. |
| 16. WMES to review its safety practices and plant conditions to determine what changes may be required. Note: The Temporary cabling that was installed to protect employees appears to create other safety concerns. | 4/16/2020 | WMES | Complete | Commitment due as part of the March 2020 Monthly Report to the BPW. |
| 17. BPW to audit WMES safety procedures and practices to included: | | | | |
| a. Lock-out/Tag-out of equipment | April 2020 | BPW | Complete | Documents are in a binder at the Lewes WWTP |
| b. Confined entry permit | April 2020 | BPW | Complete | Documents are in a binder at the Lewes WWTP |
| c. Personal Protective Equipment | April 2020 | BPW | Complete | Documents are in a binder at the Lewes WWTP |
| d. General Housekeeping | April 2020 | BPW | Complete | Documents are in a binder at the Lewes WWTP |
| e. Chemical control and handling | April 2020 | BPW | Complete | Documents are in a binder at the Lewes WWTP |
| 18. WMES to provide a monthly update on its Corrective Actions to BPW | 4/16/2020 | WMES | Ongoing | Started as part of the March 2020 Monthly Report to the BPW. |
| 19. BPW Staff to provide an update on the status of the above Corrective Actions at routine monthly BPW meetings. This will be part of the standing agenda for the meetings | 4/16/2020 | BPW | Ongoing | Initially due as part of the review process of the March 2020 Monthly Report to the BPW. |
| part of the standing agenca for the meetings | 4/10/2020 | DI. M | Ongoing | and any data as part of the review process of the framen 2020 Monthly Report to the BI W. |