

PUMP STATION		196	
FEB	23	PS 196	
		METER	24 HOUR
		READING	FLOW
WED	1	91307930	0.357860
THU	2	91665790	0.375080
FRI	3	92040870	0.383910
SAT	4	92424780	0.372670
SUN	5	92797450	0.375380
MON	6	93172830	0.361060
TUE	7	93533890	0.355650
WED	8	93889540	0.362880
THU	9	94252420	0.356190
FRI	10	94608610	0.331840
SAT	11	94940450	0.271500
SUN	12	95211950	0.209700
MON	13	95421650	0.227680
TUE	14	95649330	0.330300
WED	15	95979630	0.340340
THU	16	96319970	0.351570
FRI	17	96671540	0.355560
SAT	18	97027100	0.371870
SUN	19	97398970	0.365340
MON	20	97764310	0.367600
TUE	21	98131910	0.344710
WED	22	98476620	0.348970
THU	23	98825590	0.352690
FRI	24	99178280	0.361790
SAT	25	99540070	0.362120
SUN	26	99902190	0.369942
MON	27	272131.8	0.384897
TUE	28	657028.8	0.357945
		1014974	
TOTAL			9.707044
COUNT			28
AVERAGE			0.346680
MINIMUM			0.209700
MAXIMUM			0.384897

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)



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

NAME: Howard Seymour Water Reclamation Plant
 ADDRESS: 116 American Legion Road, Lewes, DE 19958 US
 FACILITY: Howard Seymour Water Reclamation Plant
 LOCATION: 116 American Legion Road, Lewes, DE 19958 US

DE0021512 PERMIT NUMBER
 001 DISCHARGE NUMBER
 MONITORING PERIOD FROM 2023 01 01 TO 2023 01 31

REPORT DESIGNATOR: A
 DATA ENTRY COMPLETE: 2/24/2023
 REPORT SUBMITTED BY: mwolgemuth
 STATUS OF SUBMISSION: Submitted for Signature

#	PARAMETER	NDI	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
			AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
1/1	Flow	SAMPLE MEASUREMENT	0.861	1.068	Mil Gal/Day				--	0	99/99	RCOTOT
	Gross Effluent (50050)	PERMIT REQUIREMENT	No Limit Monitoring Req'd	No Limit Monitoring Req'd	Mil Gal/Day	No Monitoring Required	No Monitoring Required	No Monitoring Required	--	--	99/99	RCOTOT
1/2	Dissolved oxygen (DO)	SAMPLE MEASUREMENT			--	2.32		5.97	mg/l	0	99/99	Imersion
	Gross Effluent (00300)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required	--	No Limit Monitoring Req'd	No Monitoring Required	No Limit Monitoring Req'd	mg/l	--	99/99	Imersion
1/3	pH	SAMPLE MEASUREMENT			--	6.9		7.2	Std pH Units	0	01/01	Grab
	Gross Effluent (00400)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required	--	6	No Monitoring Required	9	Std pH Units	--	01/01	Grab
1/4	Enterococcus	SAMPLE MEASUREMENT			--	<1		2	CFU/100 ML	0	01/07	Grab
	Gross Effluent (31639)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required	--	No Monitoring Required	10	104	CFU/100 ML	--	01/07	Grab
1/5	BOD5	SAMPLE MEASUREMENT	<17	<18	lbs/Day		<2.4	<2.4	mg/l	0	01/07	Composite 24
	Gross Effluent (00310)	PERMIT REQUIREMENT	188	288	lbs/Day	No Monitoring Required	15	23	mg/l	--	01/07	Composite 24
1/6	BOD5	SAMPLE MEASUREMENT			--		250	250	mg/l	0	01/30	Composite 24
	Raw Sewage (00310)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required	--	No Monitoring Required	No Limit Monitoring Req'd	No Limit Monitoring Req'd	mg/l	--	01/30	Composite 24
1/7	TSS	SAMPLE MEASUREMENT	<4	<7	lbs/Day		<0.6	<1	mg/l	0	01/07	Composite 24
	Gross Effluent (00530)	PERMIT REQUIREMENT	188	288	lbs/Day	No Monitoring Required	15	23	mg/l	--	01/07	Composite 24

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

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 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 INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	[ATTACH DIGITAL SIGNATURE RECEIPT FROM CROMERR]	TELEPHONE	DATE	
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		YEAR	MO

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)



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

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 LOCATION: 116 American Legion Road, Lewes, DE 19958 US

DE0021512 PERMIT NUMBER
 001 DISCHARGE NUMBER
 MONITORING PERIOD FROM 2023 01 01 TO 2023 01 31

REPORT DESIGNATOR: A
 DATA ENTRY COMPLETE: 2/24/2023
 REPORT SUBMITTED BY: mwolgemuth
 STATUS OF SUBMISSION: Submitted for Signature

#	PARAMETER	MEASUREMENT	NDI	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
				AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
2/1	TSS	SAMPLE MEASUREMENT	-			--		122	122	mg/l	0	01/30	Composite 24
	Raw Sewage (00530)	PERMIT REQUIREMENT	-	No Monitoring Required	No Monitoring Required	--	No Monitoring Required	No Limit Monitoring Req'd	No Limit Monitoring Req'd	mg/l	--	01/30	Composite 24
2/2	Total Nitrogen	SAMPLE MEASUREMENT	-	35.4	35.4	lbs/Day		4.78	4.78	mg/l	0	01/30	Composite 24
	Gross Effluent (00600)	PERMIT REQUIREMENT	-	100	No Limit Monitoring Req'd	lbs/Day	No Monitoring Required	8	No Limit Monitoring Req'd	mg/l	--	01/30	Composite 24
2/3	Phosphorus, Total	SAMPLE MEASUREMENT	-	0.4	0.4	lbs/Day		0.06	0.06	mg/l	0	01/30	Composite 24
	Gross Effluent (00665)	PERMIT REQUIREMENT	-	25	No Limit Monitoring Req'd	lbs/Day	No Monitoring Required	2	No Limit Monitoring Req'd	mg/l	--	01/30	Composite 24

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

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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		YEAR	MO

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)

Monthly Operations Report: January 2023

Site: LEWES WWTP

FINAL EFFLUENT OUTFALL 001																	
DATE	DAY	Flow	BOD		TSS		Enteroc.	Total P		Total N		Ammonia as N		Nitrite + Nitrate		TKN	
		MGD	mg/L	lbs	mg/L	lbs	col/100m	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs
1	Sun.	0.957															
2	Mon.	0.865															
3	Tue.	0.889	<2.4	<18	<0.5	<4		0.1	0.44	4.8	35.44	2.1	15	1.9	14	2.9	22
4	Wed.	0.898					<1.0										
5	Thu.	0.917															
6	Fri.	1.068															
7	Sat.	0.724															
8	Sun.	0.828															
9	Mon.	0.831															
10	Tue.	0.826	<2.4	<17	<0.5	<3											
11	Wed.	0.816					<1.0										
12	Thu.	0.874															
13	Fri.	0.925															
14	Sat.	0.758															
15	Sun.	0.878															
16	Mon.	0.827															
17	Tue.	0.847	<2.4	<17	<0.5	<4											
18	Wed.	0.803					2.0										
19	Thu.	0.799															
20	Fri.	0.845															
21	Sat.	0.845															
22	Sun.	0.806															
23	Mon.	0.839															
24	Tue.	0.813	<2.4	<16	<0.5	<3											
25	Wed.	0.954					<1.0										
26	Thu.	0.931															
27	Fri.	0.994															
28	Sat.	0.878															
29	Sun.	0.749															
30	Mon.	0.865															
31	Tue.	0.841	<2.4	<17	<1.0	<7											
TOTAL		26.6890															
AVERAGE		0.8609	<2.40	<16.86	<0.60	<4.20	1.2	0.06	0.44	4.78	35.44	2.07	15.35	1.88	13.94	2.90	21.50
MAXIMUM		1.0683	<2.40	<17.80	<1.00	<7.00	2.00	0.06	0.44	4.78	35.44	2.07	15.35	1.88	13.94	2.90	21.50
MINIMUM		0.7235	<2.40	<16.30	<0.50	<3.40	<1.00	0.06	0.44	4.78	35.44	2.07	15.35	1.88	13.94	2.90	21.50
Removal (%)			99.0		99.5												

INFLUENT						
DATE	DAY	Flow	BOD		TSS	
		MGD	mg/L	lbs	mg/L	lbs
1	Sun.	0.984				
2	Mon.	0.914				
3	Tue.	0.867	250.0	1808	122.0	882
4	Wed.	0.884				
5	Thu.	0.879				
6	Fri.	0.872				
7	Sat.	0.858				
8	Sun.	0.842				
9	Mon.	0.833				
10	Tue.	0.819				
11	Wed.	0.647				
12	Thu.	0.830				
13	Fri.	0.840				
14	Sat.	0.831				
15	Sun.	0.852				
16	Mon.	0.858				
17	Tue.	0.822				
18	Wed.	0.805				
19	Thu.	0.807				
20	Fri.	0.817				
21	Sat.	0.799				
22	Sun.	0.817				
23	Mon.	0.846				
24	Tue.	0.800				
25	Wed.	0.895				
26	Thu.	0.958				
27	Fri.	0.870				
28	Sat.	0.858				
29	Sun.	0.843				
30	Mon.	0.837				
31	Tue.	0.826				
TOTAL		26.2100				
AVERAGE		0.85	250	1,808	122	882
MAXIMUM		0.98	250	1,808	122	882
MINIMUM		0.65	250	1,808	122	882
Removal (%)						

LEWES WWTF

NUTRIENT OFFSET REPORT 2023

Month	Days	Average Monthly Flow	Monthly Average TN	Total Monthly TN Discharged	TN Based 16.9 lbs Manure Offset Required	Monthly Average TP	Total Monthly TP Discharged	TP Based 285 lbs Manure Offset Required	Max Manure Equivalent	Poultry Manure Relocated	Poultry Manure Offset Balance
		MGD	mg/L	lbs	Tons	mg/L	lbs	Tons	Tons	Tons	Tons
Carry Over											400.29
January	31	0.8609	4.78	1,063.92	8.99	0.06	13.35	1.90	8.99	-	391.30
February	28				-			-		-	
March	31	-	-		-	-		-		-	-
April	30	-	-		-	-		-		-	-
May	31	-	-		-	-		-		-	-
June	30	-	-		-	-		-		-	-
July	31	-	-		-	-		-		-	-
August	31	-	-		-	-		-		-	-
September	30	-	-		-	-		-		-	-
October	31	-	-		-	-		-		-	-
November	30	-	-		-	-		-		-	-
December	31	-	-		-	-		-		-	-
Year Balance											391.30

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)



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

NAME: Howard Seymour Water Reclamation Plant
 ADDRESS: 116 American Legion Road, Lewes, DE 19958 US
 FACILITY: Howard Seymour Water Reclamation Plant
 LOCATION: 116 American Legion Road, Lewes, DE 19958 US

DE0021512 PERMIT NUMBER
 001 DISCHARGE NUMBER
 MONITORING PERIOD FROM 2023 02 01 TO 2023 02 28

REPORT DESIGNATOR: A
 DATA ENTRY COMPLETE: 3/22/2023
 REPORT SUBMITTED BY: jkerin
 STATUS OF SUBMISSION: Submitted for Signature

#	PARAMETER	NDI	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
			AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
1/1	Flow	SAMPLE MEASUREMENT	0.813	0.942	Mil Gal/Day				--	0	99/99	RCOTOT
	Gross Effluent (50050)	PERMIT REQUIREMENT	No Limit Monitoring Req'd	No Limit Monitoring Req'd	Mil Gal/Day	No Monitoring Required	No Monitoring Required	No Monitoring Required	--	--	99/99	RCOTOT
1/2	Dissolved oxygen (DO)	SAMPLE MEASUREMENT			--	2.38		6.55	mg/l	0	99/99	Imersion
	Gross Effluent (00300)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required	--	No Limit Monitoring Req'd	No Monitoring Required	No Limit Monitoring Req'd	mg/l	--	99/99	Imersion
1/3	pH	SAMPLE MEASUREMENT			--	6.7		7.4	Std pH Units	0	01/01	Grab
	Gross Effluent (00400)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required	--	6	No Monitoring Required	9	Std pH Units	--	01/01	Grab
1/4	Enterococcus	SAMPLE MEASUREMENT			--	<1		1	CFU/100 ML	0	01/07	Grab
	Gross Effluent (31639)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required	--	No Monitoring Required	10	104	CFU/100 ML	--	01/07	Grab
1/5	BOD5	SAMPLE MEASUREMENT	<16	<17	lbs/Day		<2.4	<2.4	mg/l	0	01/07	Composite 24
	Gross Effluent (00310)	PERMIT REQUIREMENT	188	288	lbs/Day	No Monitoring Required	15	23	mg/l	--	01/07	Composite 24
1/6	BOD5	SAMPLE MEASUREMENT			--		219	219	mg/l	0	01/30	Composite 24
	Raw Sewage (00310)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required	--	No Monitoring Required	No Limit Monitoring Req'd	No Limit Monitoring Req'd	mg/l	--	01/30	Composite 24
1/7	TSS	SAMPLE MEASUREMENT	<3	<4	lbs/Day		<0.5	0.5	mg/l	0	01/07	Composite 24
	Gross Effluent (00530)	PERMIT REQUIREMENT	188	288	lbs/Day	No Monitoring Required	15	23	mg/l	--	01/07	Composite 24

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

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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		YEAR	MO

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)



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 MONITORING PERIOD FROM 2023 02 01 TO 2023 02 28

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 DATA ENTRY COMPLETE: 3/22/2023
 REPORT SUBMITTED BY: jkerin
 STATUS OF SUBMISSION: Submitted for Signature

#	PARAMETER	NDI	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE		
			AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS	
2/1	TSS	SAMPLE MEASUREMENT			--		184	184	mg/l	0	01/30	Composite 24	
	Raw Sewage (00530)	PERMIT REQUIREMENT	-	No Monitoring Required	No Monitoring Required	--	No Monitoring Required	No Limit Monitoring Req'd	No Limit Monitoring Req'd	mg/l	--	01/30	Composite 24
2/2	Total Nitrogen	SAMPLE MEASUREMENT		50.2	59.7	lbs/Day		7.61	9.1	mg/l	0	01/30	Composite 24
	Gross Effluent (00600)	PERMIT REQUIREMENT	-	100	No Limit Monitoring Req'd	lbs/Day	No Monitoring Required	8	No Limit Monitoring Req'd	mg/l	--	01/30	Composite 24
2/3	Phosphorus, Total	SAMPLE MEASUREMENT		0.7	0.7	lbs/Day		0.11	0.11	mg/l	0	01/30	Composite 24
	Gross Effluent (00665)	PERMIT REQUIREMENT	-	25	No Limit Monitoring Req'd	lbs/Day	No Monitoring Required	2	No Limit Monitoring Req'd	mg/l	--	01/30	Composite 24

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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		YEAR	MO

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)

Monthly Operations Report: February 2023

Site: LEWES WWTP

FINAL EFFLUENT OUTFALL 001																	
DATE	DAY	Flow MGD	BOD		TSS		Enteroc. col/100m	Total P		Total N		Ammonia as N		Nitrite + Nitrate		TKN	
			mg/L	lbs	mg/L	lbs		mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs
1	Wed.	0.850					1.0										
2	Thu.	0.850															
3	Fri.	0.890															
4	Sat.	0.847															
5	Sun.	0.735															
6	Mon.	0.810															
7	Tue.	0.786	<2.4	<16	0.5	3		0.1	0.72	9.1	59.68	1.0	7	7.3	48	1.8	12
8	Wed.	0.824					<1.0										
9	Thu.	0.804															
10	Fri.	0.777															
11	Sat.	0.673															
12	Sun.	0.769															
13	Mon.	0.743															
14	Tue.	0.795	<2.4	<16	<0.5	<3											
15	Wed.	0.830					<1.0										
16	Thu.	0.831															
17	Fri.	0.942															
18	Sat.	0.879															
19	Sun.	0.761															
20	Mon.	0.820															
21	Tue.	0.776															
22	Wed.	0.796	<2.4	<16	<0.5	<3				6.1	40.62			5.4	36	0.7	5
23	Thu.	0.814					1.0										
24	Fri.	0.854															
25	Sat.	0.870															
26	Sun.	0.735															
27	Mon.	0.874															
28	Tue.	0.841	<2.4	<17	<0.5	<4											
TOTAL		22.7751															
AVERAGE		0.8134	<2.40	<16.08	<0.50	<3.35	1.0	0.11	0.72	7.61	50.15	1.00	6.56	6.34	41.80	1.26	8.29
MAXIMUM		0.9415	<2.40	<16.80	0.50	<3.50	1.00	0.11	0.72	9.10	59.68	1.00	6.56	7.28	47.75	1.81	11.87
MINIMUM		0.6731	<2.40	<15.70	<0.50	<3.30	<1.00	0.11	0.72	6.12	40.62	1.00	6.56	5.40	35.84	0.71	4.71
Removal (%)			98.9		99.7												

INFLUENT						
DATE	DAY	Flow MGD	BOD		TSS	
			mg/L	lbs	mg/L	lbs
1	Wed.	0.839				
2	Thu.	0.827				
3	Fri.	0.837				
4	Sat.	0.823				
5	Sun.	0.816				
6	Mon.	0.811				
7	Tue.	0.787	219.0	1437	184.0	1208
8	Wed.	0.789				
9	Thu.	0.783				
10	Fri.	0.764				
11	Sat.	0.715				
12	Sun.	0.690				
13	Mon.	0.757				
14	Tue.	0.576				
15	Wed.	0.631				
16	Thu.	0.809				
17	Fri.	0.843				
18	Sat.	0.831				
19	Sun.	0.848				
20	Mon.	0.827				
21	Tue.	0.778				
22	Wed.	0.788				
23	Thu.	0.808				
24	Fri.	0.796				
25	Sat.	0.837				
26	Sun.	0.587				
27	Mon.	0.691				
28	Tue.	0.843				
TOTAL		21.7310				
AVERAGE		0.78	219	1,437	184	1,208
MAXIMUM		0.85	219	1,437	184	1,208
MINIMUM		0.58	219	1,437	184	1,208
Removal (%)						

LEWES WWTF

NUTRIENT OFFSET REPORT 2023

Month	Days	Average Monthly Flow	Monthly Average TN	Total Monthly TN Discharged	TN Based 16.9 lbs Manure Offset Required	Monthly Average TP	Total Monthly TP Discharged	TP Based 285 lbs Manure Offset Required	Max Manure Equivalent	Poultry Manure Relocated	Poultry Manure Offset Balance
		MGD	mg/L	lbs	Tons	mg/L	lbs	Tons	Tons	Tons	Tons
Carry Over											400.29
January	31	0.8609	4.78	1,063.92	8.99	0.06	13.35	1.90	8.99	-	391.30
February	28	0.8134	7.61	1,445.48	12.21	0.11	20.89	2.98	12.21	-	379.09
March	31				-			-			-
April	30	-	-		-	-		-			-
May	31	-	-		-	-		-			-
June	30	-	-		-	-		-			-
July	31	-	-		-	-		-			-
August	31	-	-		-	-		-			-
September	30	-	-		-	-		-			-
October	31	-	-		-	-		-			-
November	30	-	-		-	-		-			-
December	31	-	-		-	-		-			-
Year Balance											379.09

Comments:



Lewes BPW WWTP Biweekly InSight Report

Date: 2/8/2023

From: Erin Horocholyn - Veolia Water Technologies & Solutions
To: Austin Calaman BPW, Inframark
cc: Matt Stapleford - Veolia 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 trains UF3 and UF4

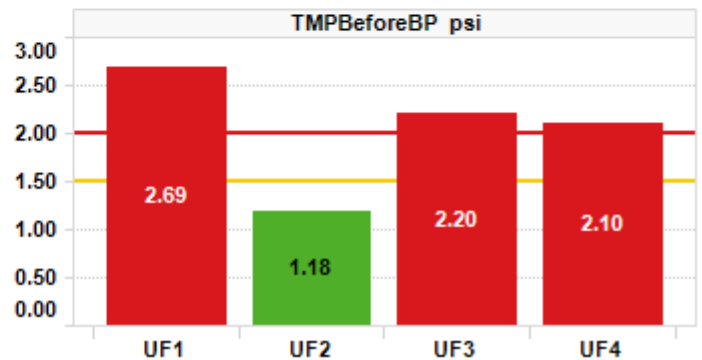
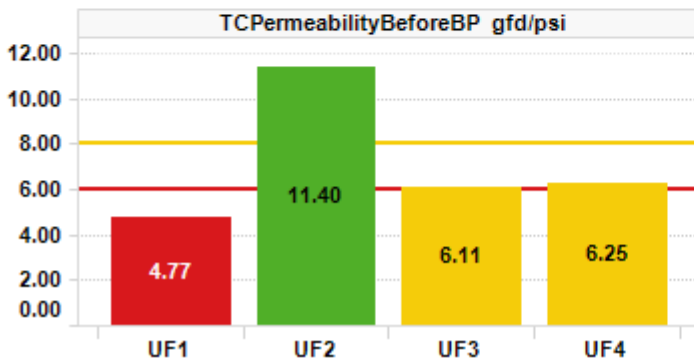
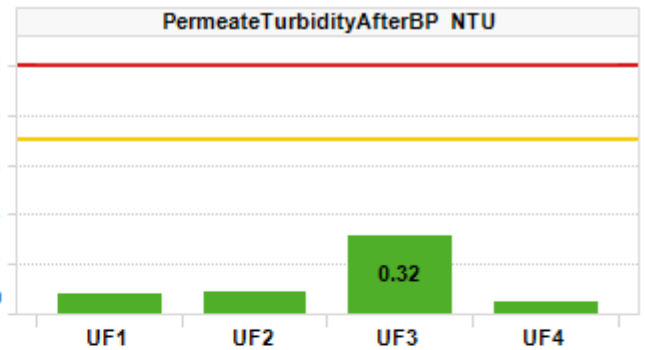
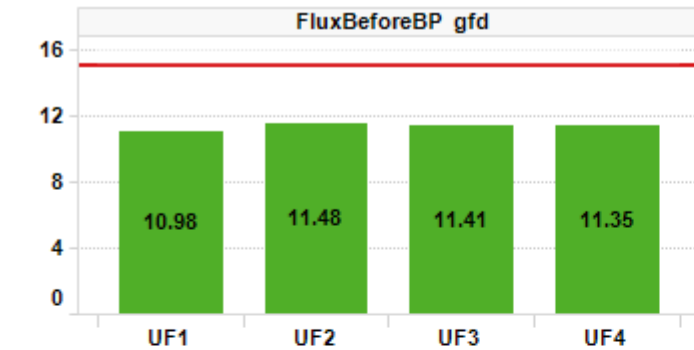
Cleaning Strategy

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

This report covers multiple reporting periods. Averages in-text refer to Jan 25 – Feb 7 unless specified.

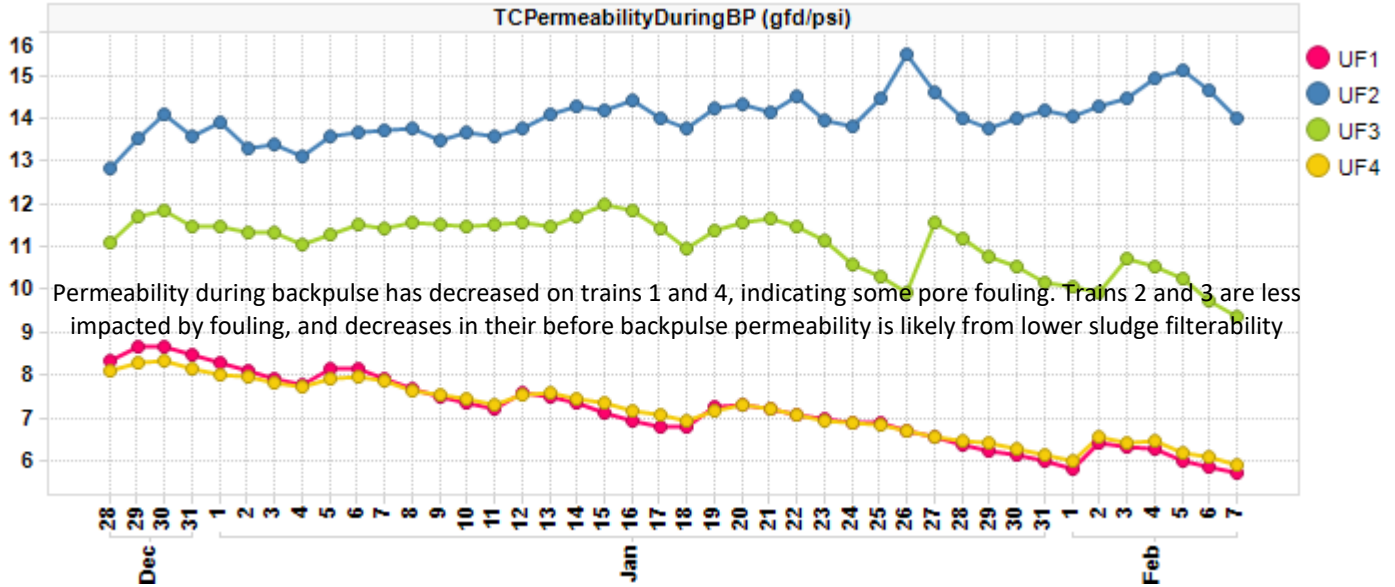
KPI Dashboard – Avg values through Jan 25 – Feb 7

■ Action Required
■ Caution
■ No Limits
■ Normal



Plant Summary

- TC permeability averaged 4.8, 11.4, 6.1, and 6.3 gfd/psi on trains 1,2,3,4. TMP averaged 2.7, 1.2, 2.2, and 2.1 psi on trains 1,2,3,4. TCP has been decreasing, including during backpulse (plot below), and TMP increasing. Another weekly hypo maintenance clean can be scheduled on trains 1, 3, and 4 to raise permeability. Membrane performance will also be suppressed with struggling biohealth, resulting from high loading hitting the plant which has also caused foaming issues. Once biohealth improves, TMPs will decrease and TCP rise as filterability improves. If possible, the foam should be wasted to sludge handling instead of recirculated. Check that valve FV-3960 is functioning to divert foam to waste



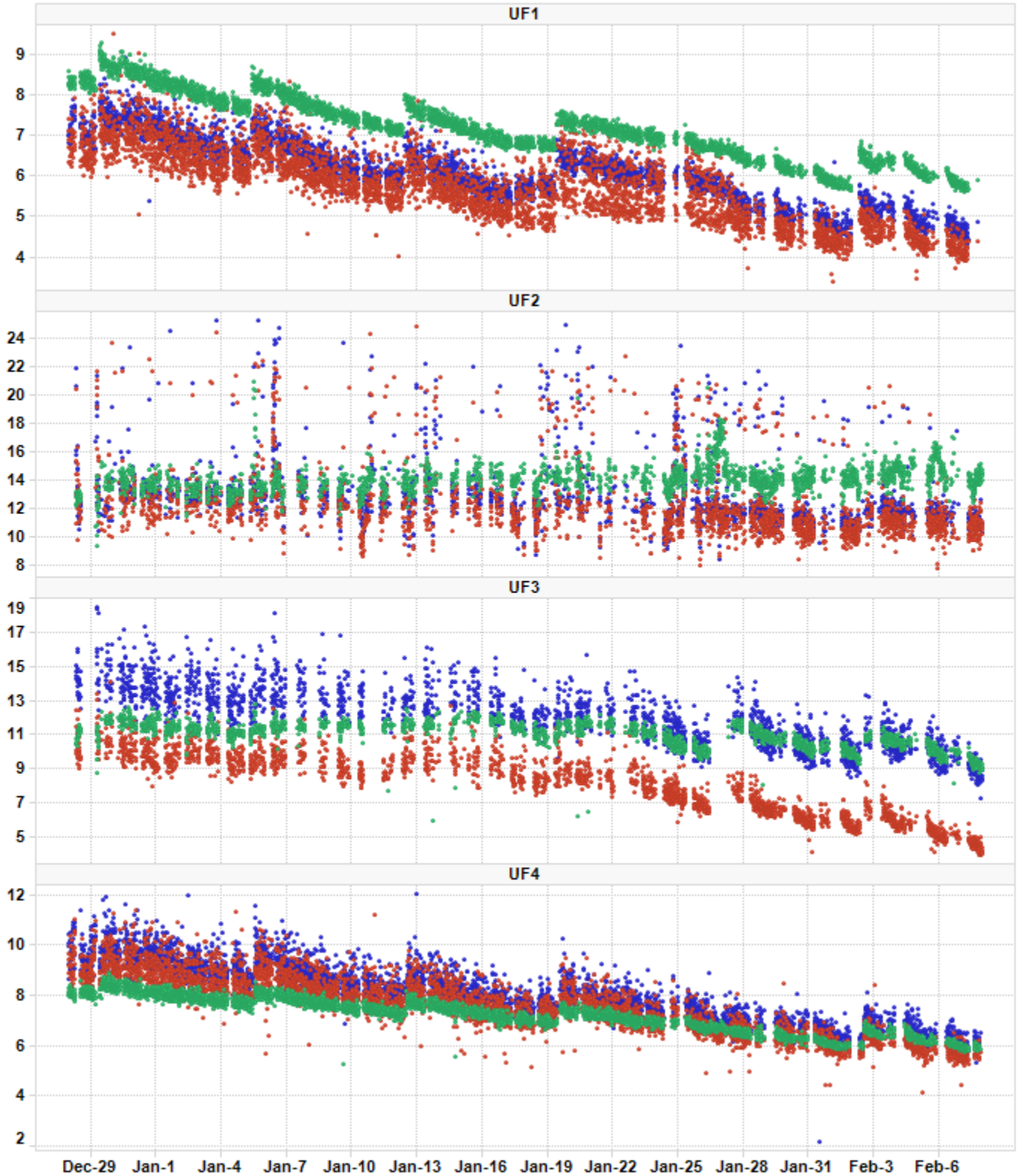
- Permeate turbidity averaged 0.05 – 0.09 NTU on trains 1,2,4. Train 3 averaged 0.32 NTU
- Daily permeate production averaged 0.87 MGD. Permeate temperature averaged 58°F (-2°F). All trains are in Backpulse with LEAP Hi aeration until switching to LEAP Low on Jan 25. Flux averaged 11.0 – 11.5 gfd on all trains

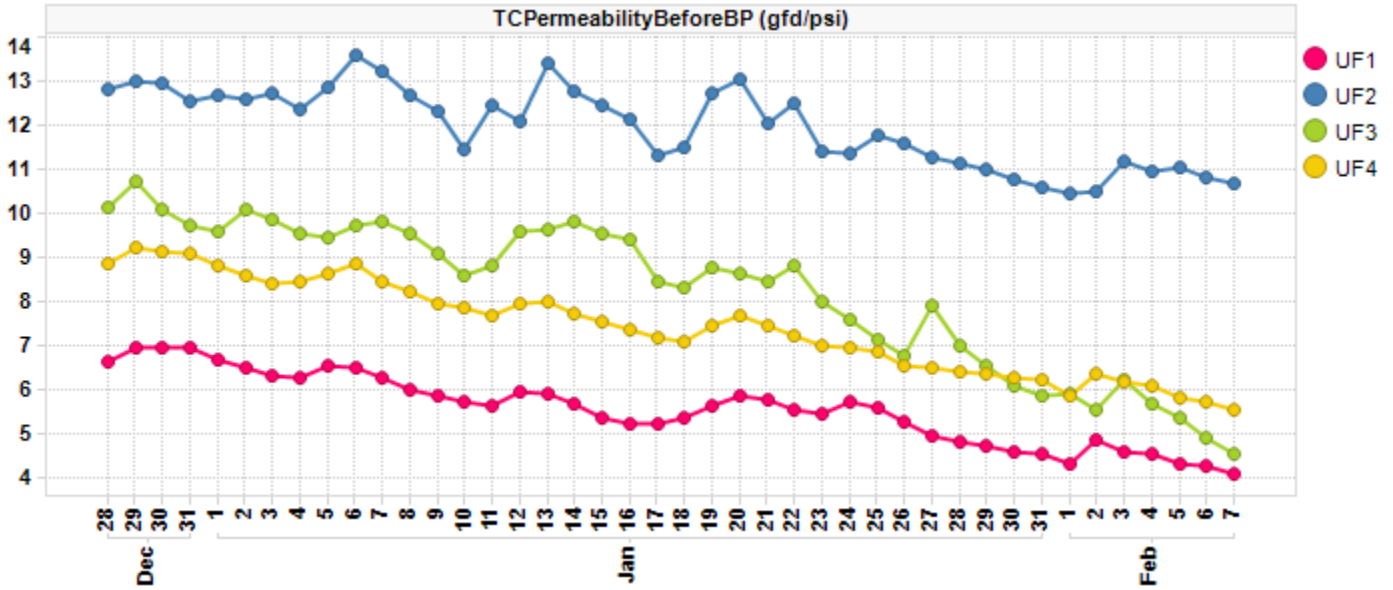
Table 1. Record of maintenance cleans (MCs) run.

Train	UF1	UF2	UF3	UF4
# of Hypo MCs – Jan 25 – Feb 7	1	1	2	1
# of Citric MCs – Jan 25 – Feb 7	1	1	2	1
# of Hypo MCs – Jan 11 – 24	2	2	2	2
# of Citric MCs – Jan 11 – 24	0	0	1	0
# of Hypo MCs – Dec 28 – Jan 10	2	2	2	2
# of Citric MCs – Dec 28 – Jan 10	1	0	1	1

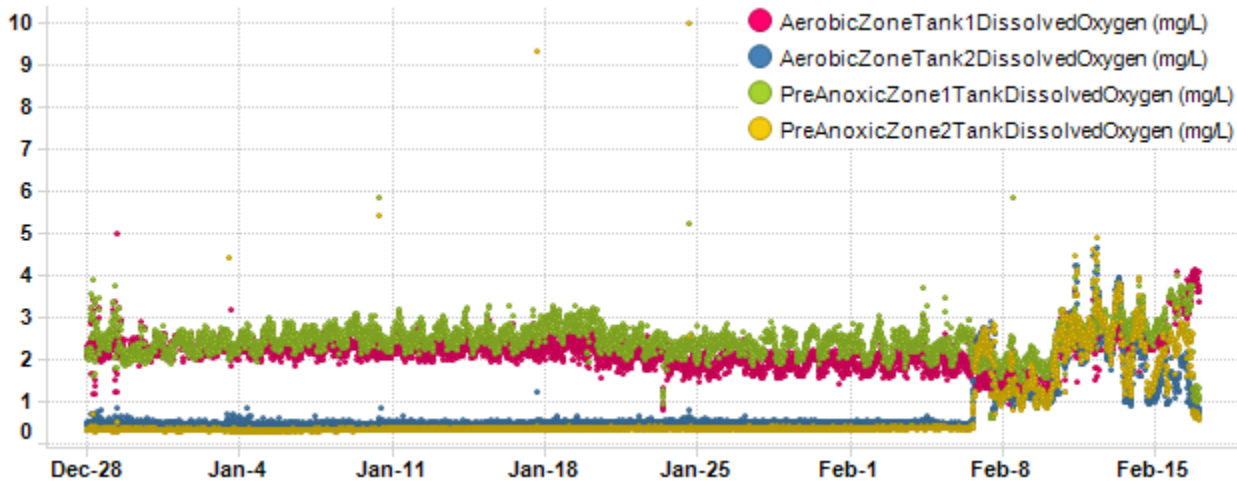
TC Permeability Trends By Train

■ TCPermeabilityAfterBP
■ TCPermeabilityBeforeBP
■ TCPermeabilityDuringBP

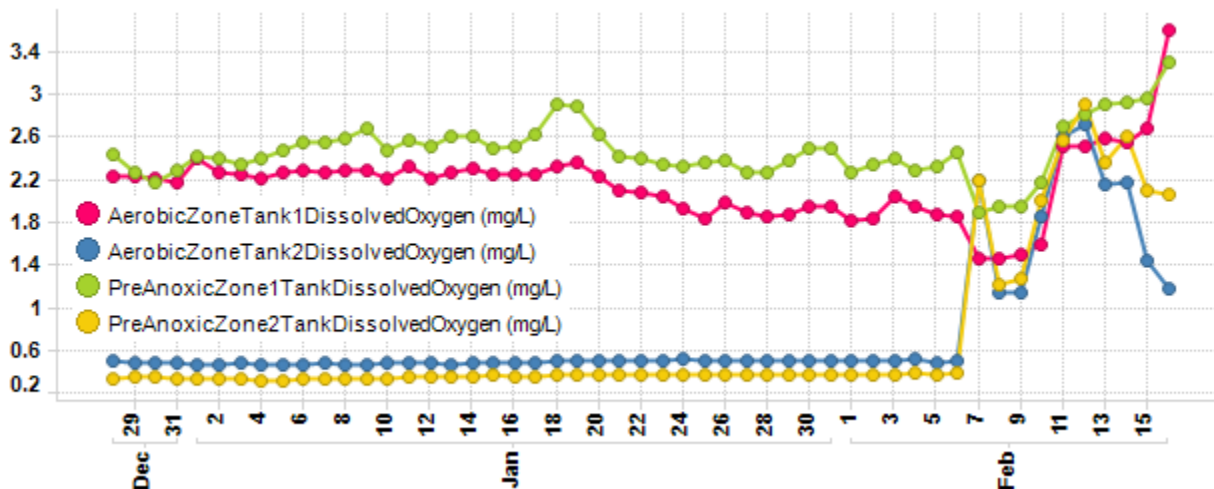




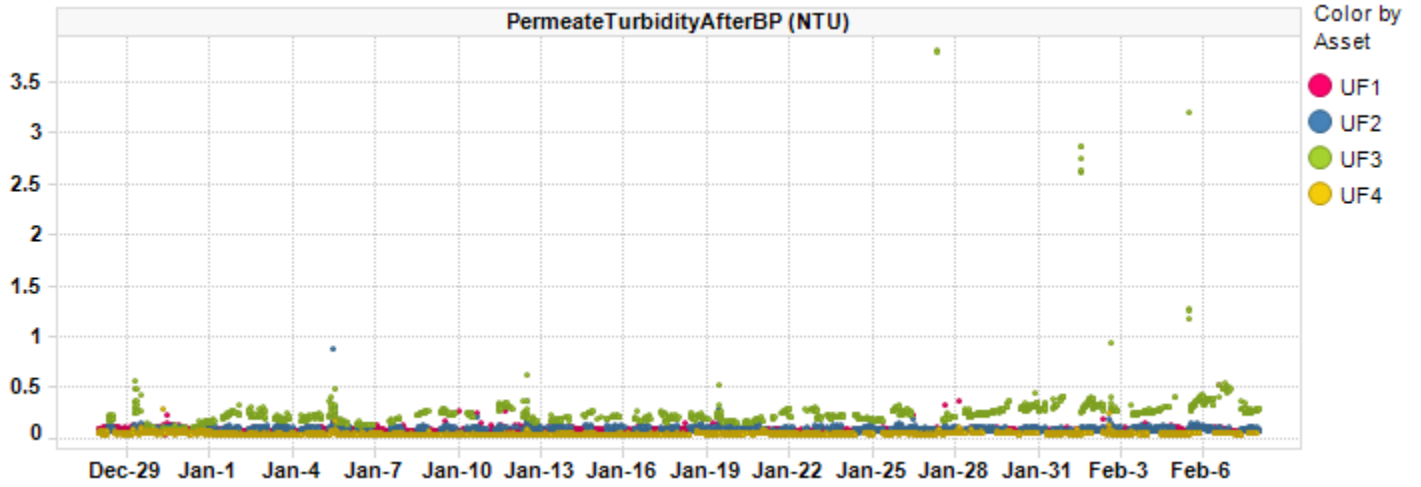
Bioreactor Dissolved Oxygen



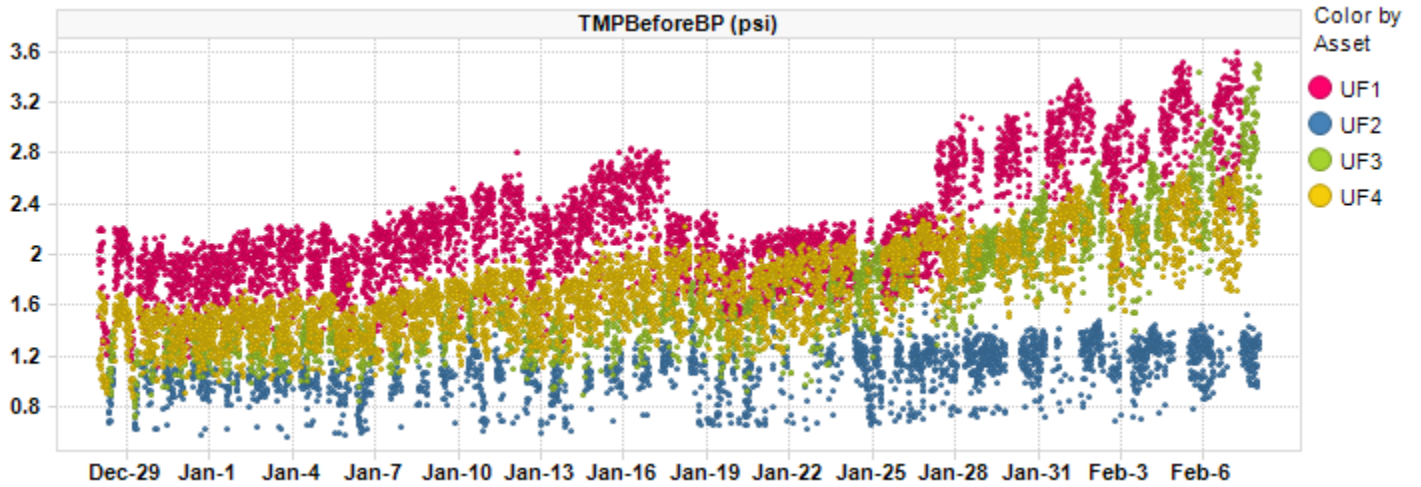
Bioreactor dissolved oxygen - daily median averages



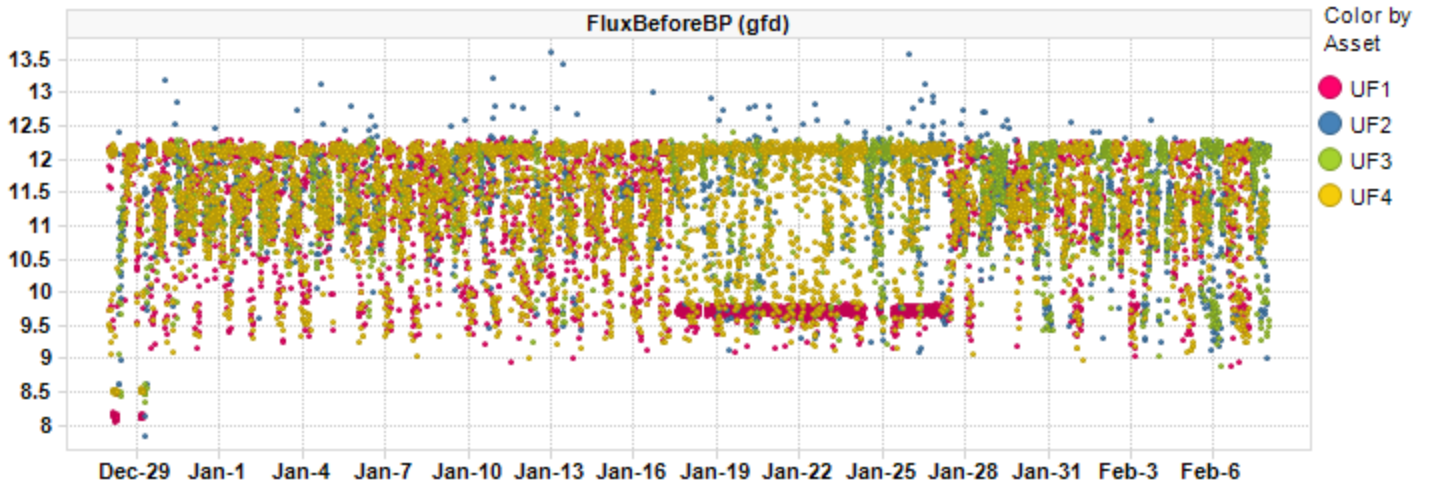
Permeate Turbidity Trend



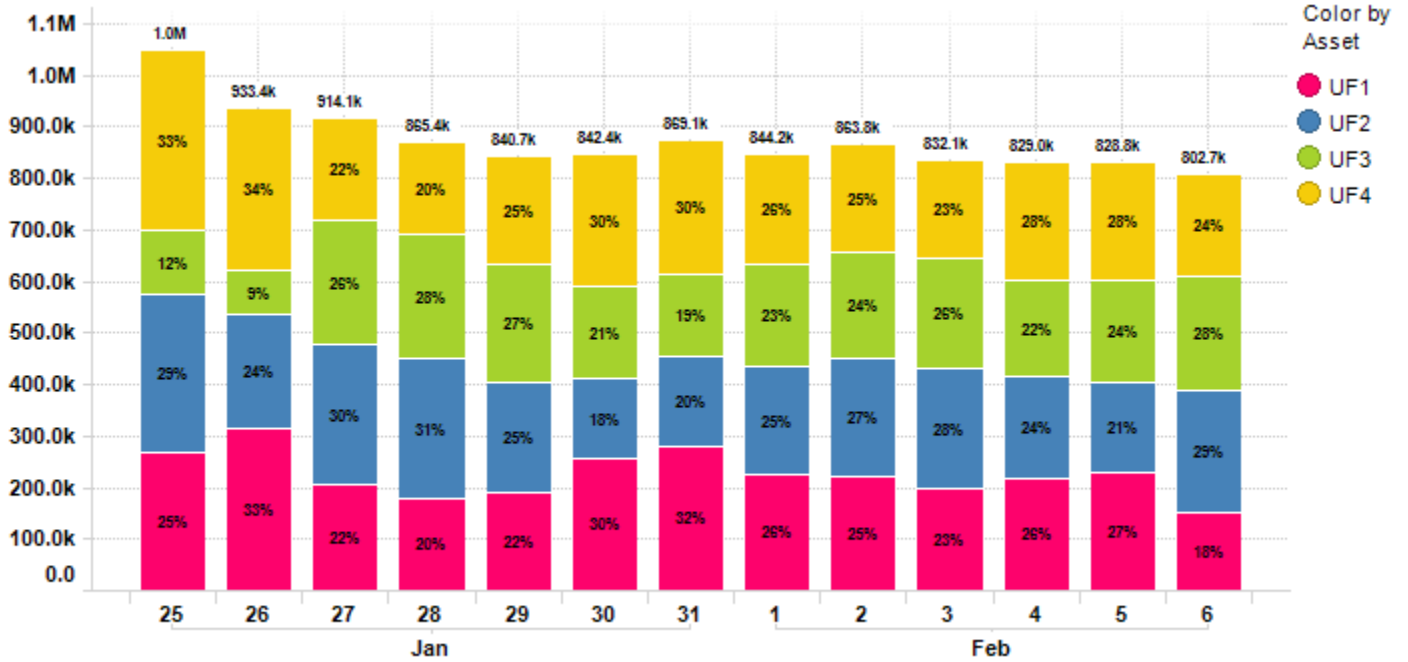
Before BPTMP Trend



Before BP Flux Trend

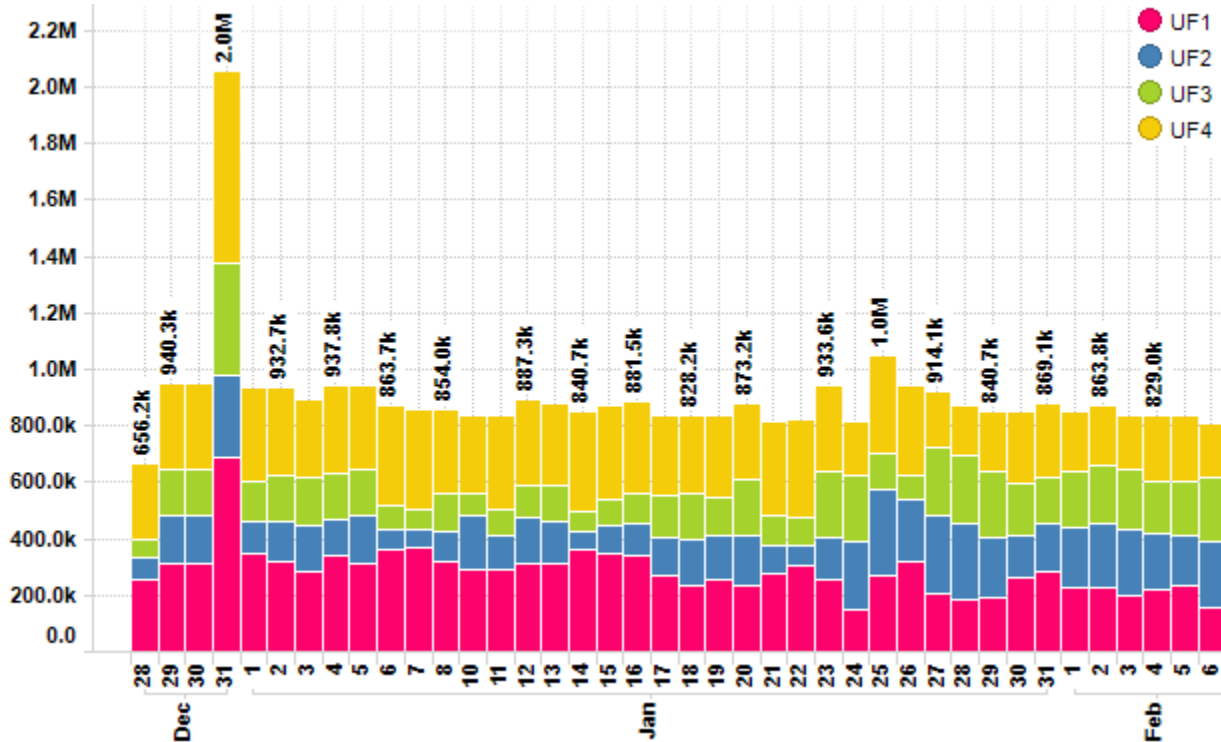


Daily Permeate Flow Jan 25 – Feb 6



Average Daily permeate flow from 1/25/2023 to 2/7/2023 is 870.0k gal with a maximum daily flow of 1.0M gal.

Daily Permeate Flow Dec 28 – Feb 6



Asset Summary Jan 1 – Feb 7

Parameter	Aggregation	UF1	UF2	UF3	UF4
FluxBeforeBP	Average	10.91	11.49	11.42	11.32
	Min	8.90	9.02	8.89	8.98
	Max	12.31	13.62	12.43	12.28
FluxDuringBP	Average	18.62	18.39	18.30	18.78
	Min	18.31	16.49	10.09	18.38
	Max	19.02	20.41	18.74	18.97
PermeateFlowRate	Average	63.96	186.14	39.30	290.23
	Min	0.00	0.00	0.00	0.00
	Max	134.33	611.48	132.22	582.37
PermeateTurbidityAfterBP	Average	0.08	0.10	0.26	0.04
	Min	0.05	0.05	0.12	0.03
	Max	0.52	0.88	3.81	0.26
TCPPermeabilityBeforeBP	Average	5.61	12.10	7.68	7.45
	Min	3.40	7.81	3.93	4.13
	Max	8.39	24.91	12.91	11.34
TCPPermeabilityDuringBP	Average	7.10	14.19	10.85	7.14
	Min	5.60	11.53	5.92	5.27
	Max	8.69	20.96	12.76	8.56
TMPBeforeBP	Average	2.24	1.11	1.79	1.75
	Min	1.23	0.56	0.85	1.01
	Max	3.60	1.60	3.51	2.70
TotalPermeateFlowDaily	Average	265903.46	166183.00	154266.11	280040.19
	Min	144913.00	63498.00	66716.00	176010.00
	Max	358949.00	304707.00	243222.00	356299.00

Plant Summary Jan 1 – Feb 7

Parameter	Aggregation	UF Plant
AerobicZoneTank1DissolvedOxygen	Average	2.11
	Min	0.81
	Max	3.20
AerobicZoneTank2DissolvedOxygen	Average	0.55
	Min	0.43
	Max	2.92
PermeateTemperature	Average	59.48
	Min	54.80
	Max	63.08
PreAnoxicZone1TankDissolvedOxygen	Average	2.45
	Min	0.60
	Max	5.84
PreAnoxicZone2TankDissolvedOxygen	Average	0.43
	Min	0.29
	Max	10.00
PrimaryRecirculationPumpFlow	Average	5544.79
	Min	3874.61
	Max	5962.52
SecondaryRecirculationPumpsFlow	Average	3707.67
	Min	2338.99
	Max	4972.54
TotalPermeateFlowDaily	Average	958401.08
	Min	890757.00
	Max	1154960.00



Contract Expiry Date: 08/11/2025

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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Lewes BPW WWTP Biweekly InSight Report

Date: 3/8/2023

From: Erin Horocholyn - Veolia Water Technologies & Solutions
To: Austin Calaman BPW, Inframark
cc: Matt Stapleford - Veolia 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)

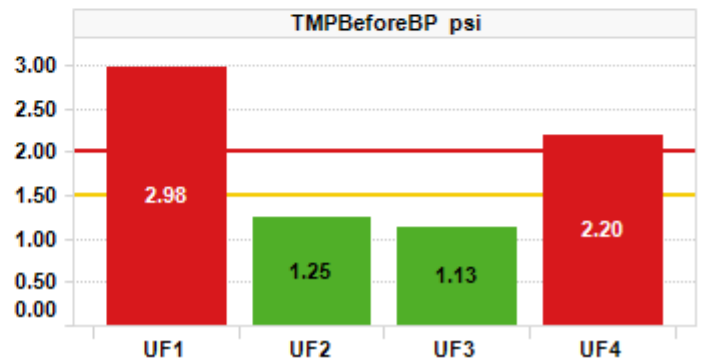
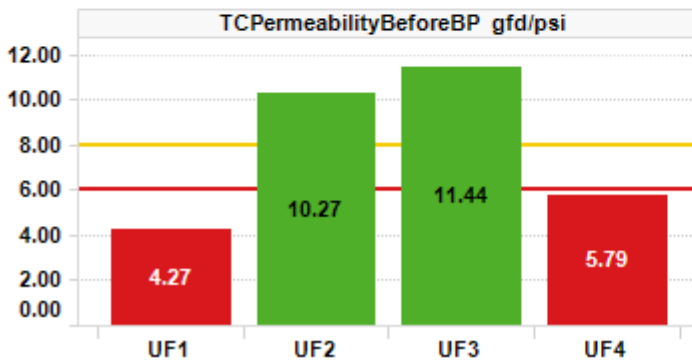
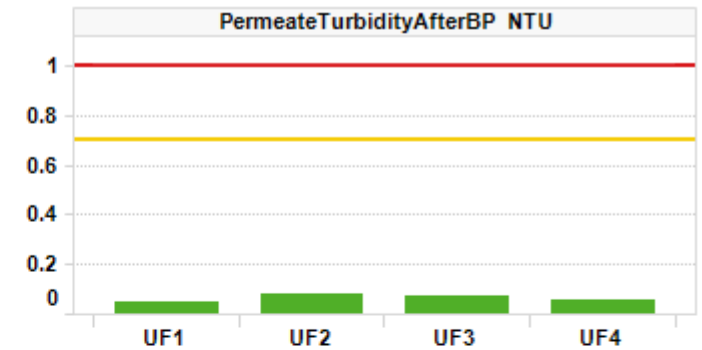
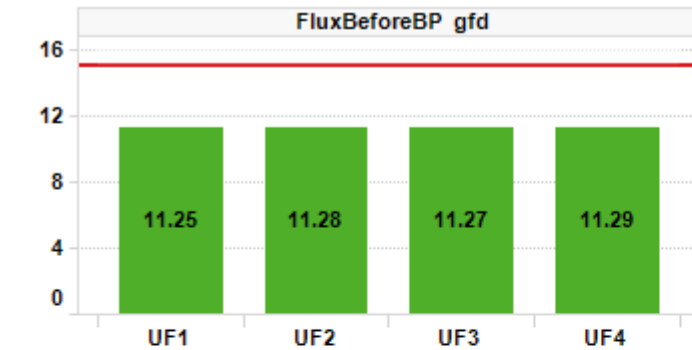
Replacement membranes installed Q1 2020 on trains UF3 and UF4

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

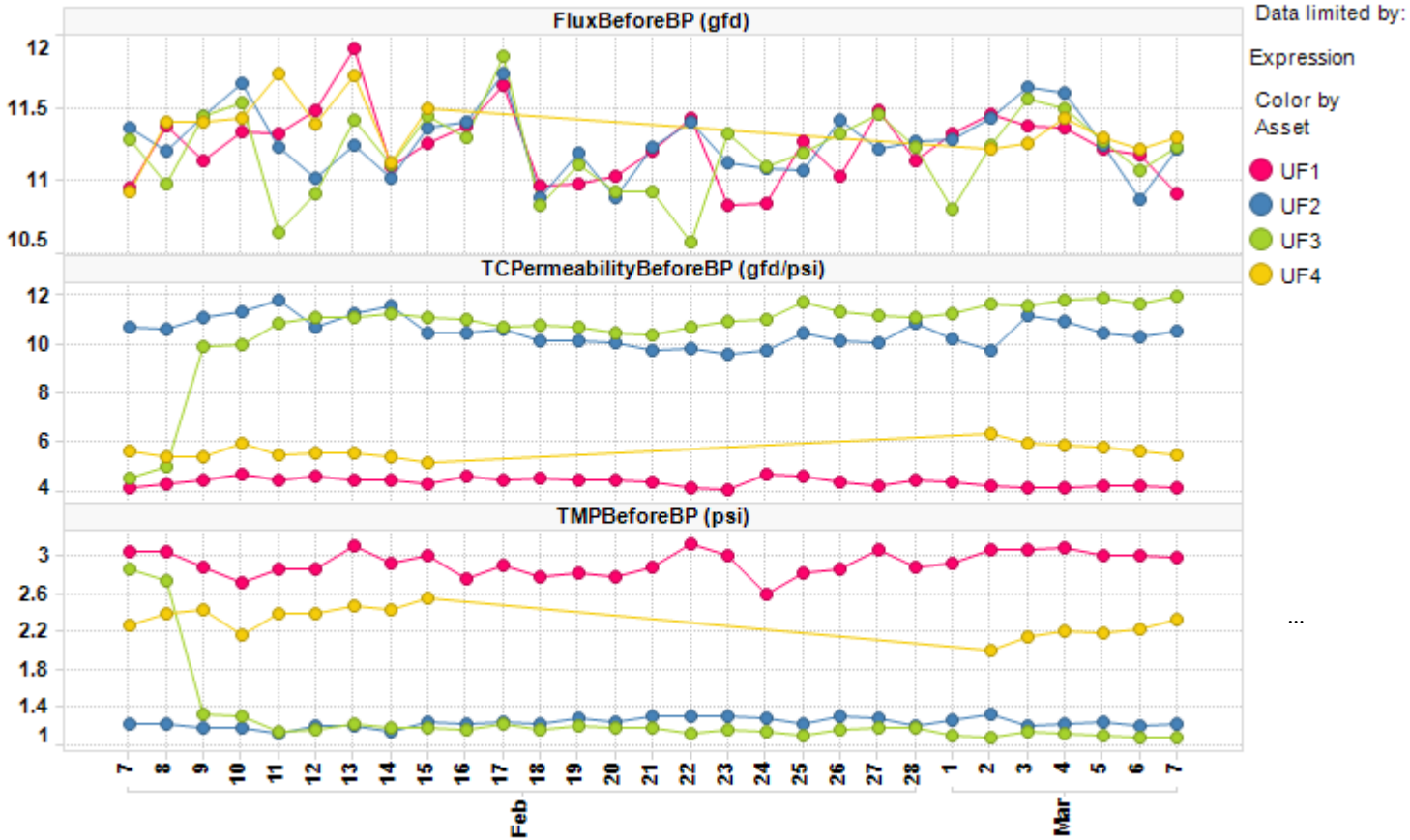
KPI Dashboard – Avg values through Feb 22 – Mar 7

■ Action Required
■ Caution
■ No Limits
■ Normal



Plant Summary

- Recovery cleans were run on UF1 and UF4. UF1’s clean train status spanned Feb 16 – 24, and UF2’s from Mar 7 – 8. UF1’s permeability increased from 5.20 to 6.36 gfd/psi (+1.36 gfd/psi). UF2’s permeability increased from 4.10 to 4.32 gfd/psi (+0.22 gfd/psi)
- TC permeability averaged 4.3, 10.3, 11.4, and 5.8 gfd/psi on trains 1,2,3,4. TMP averaged 3.0, 1.3, 1.1, and 2.2 psi on trains 1,2,3,4. Trains 2 and 3 are performing well with high permeability



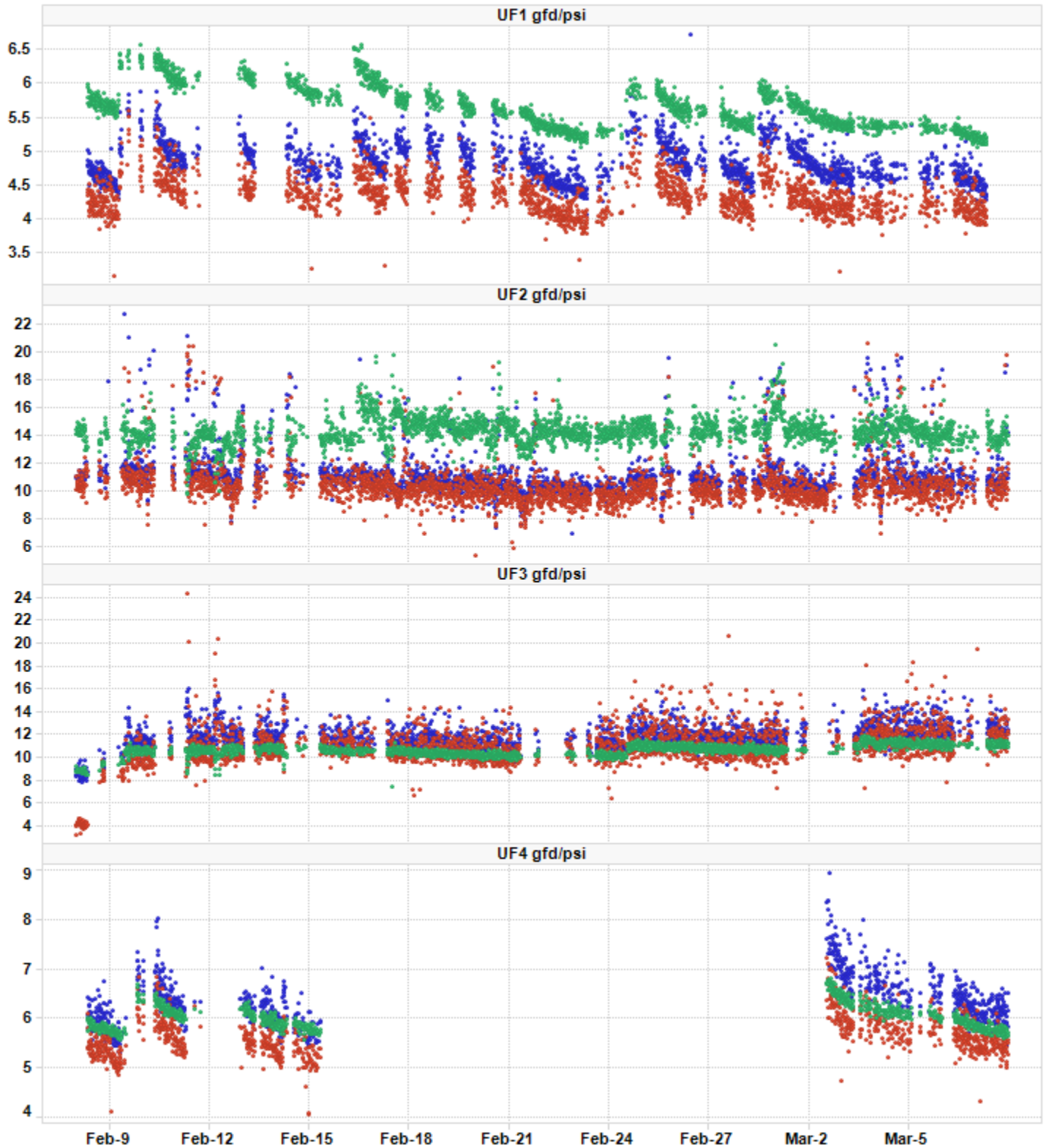
- Permeate turbidity averaged 0.05 – 0.08 NTU on trains 1,2,4. Train 3 averaged 0.04 NTU outside of the spikes reaching 4 NTU
- Daily permeate production averaged 0.87 MGD. Permeate temperature averaged 60°F (+2°F). Trains are in Backpulse with LEAP Low aeration since Jan 25. Flux averaged 11.3 gfd on all trains

Table 1. Record of maintenance cleans (MCs) run.

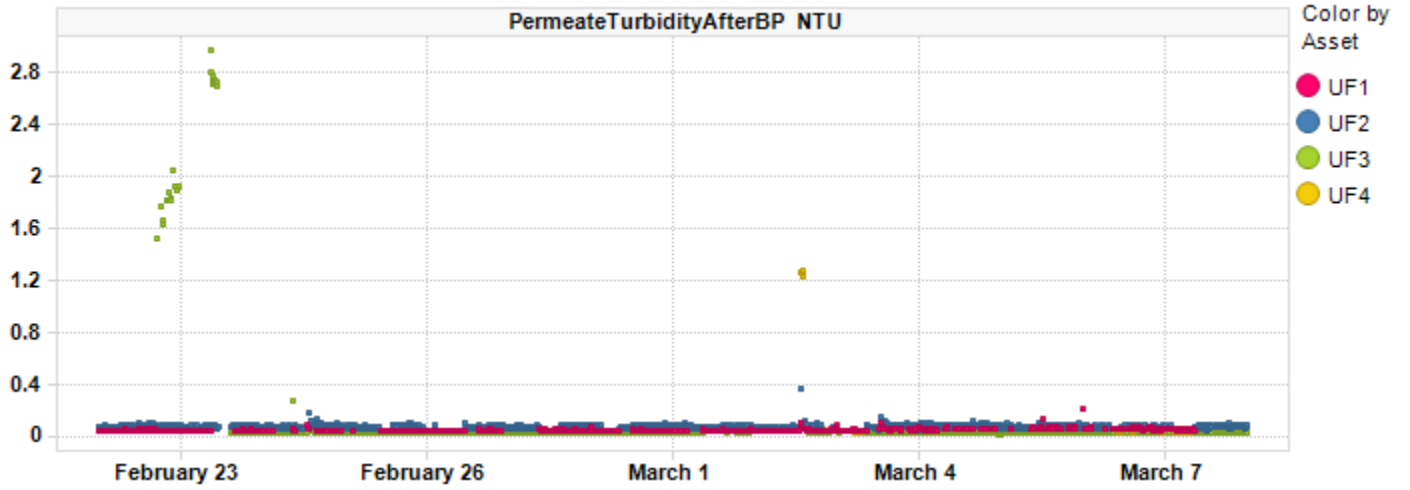
Train	UF1	UF2	UF3	UF4
# of Hypo MCs	3	4	3	1
# of Citric MCs	1	0	0	0

TC Permeability Trends By Train

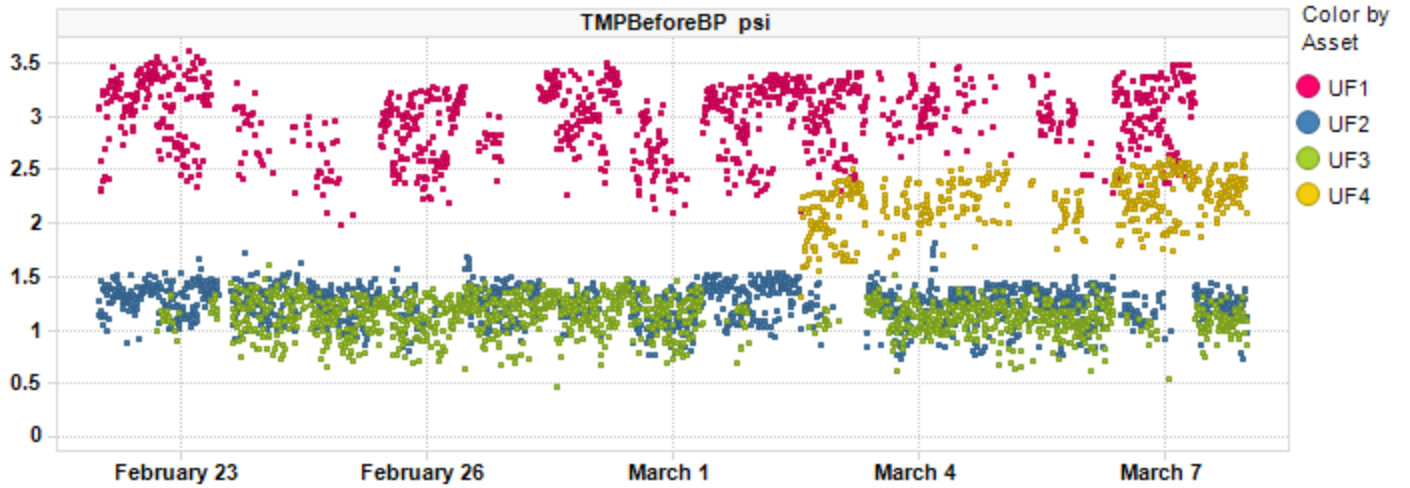
■ TCPermeabilityAfterBP
■ TCPermeabilityBeforeBP
■ TCPermeabilityDuringBP



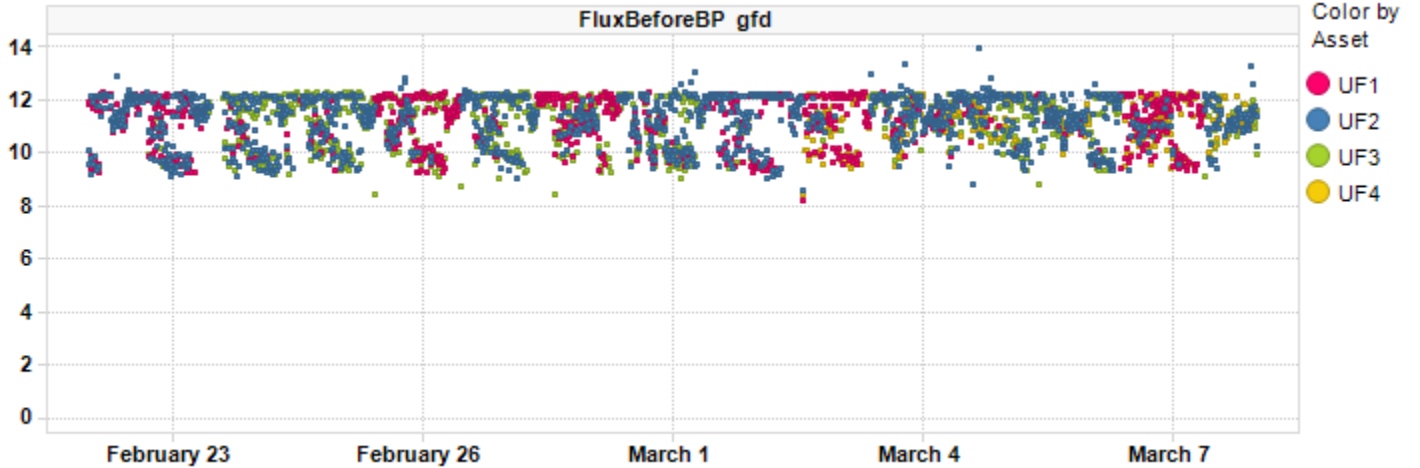
Permeate Turbidity Trend



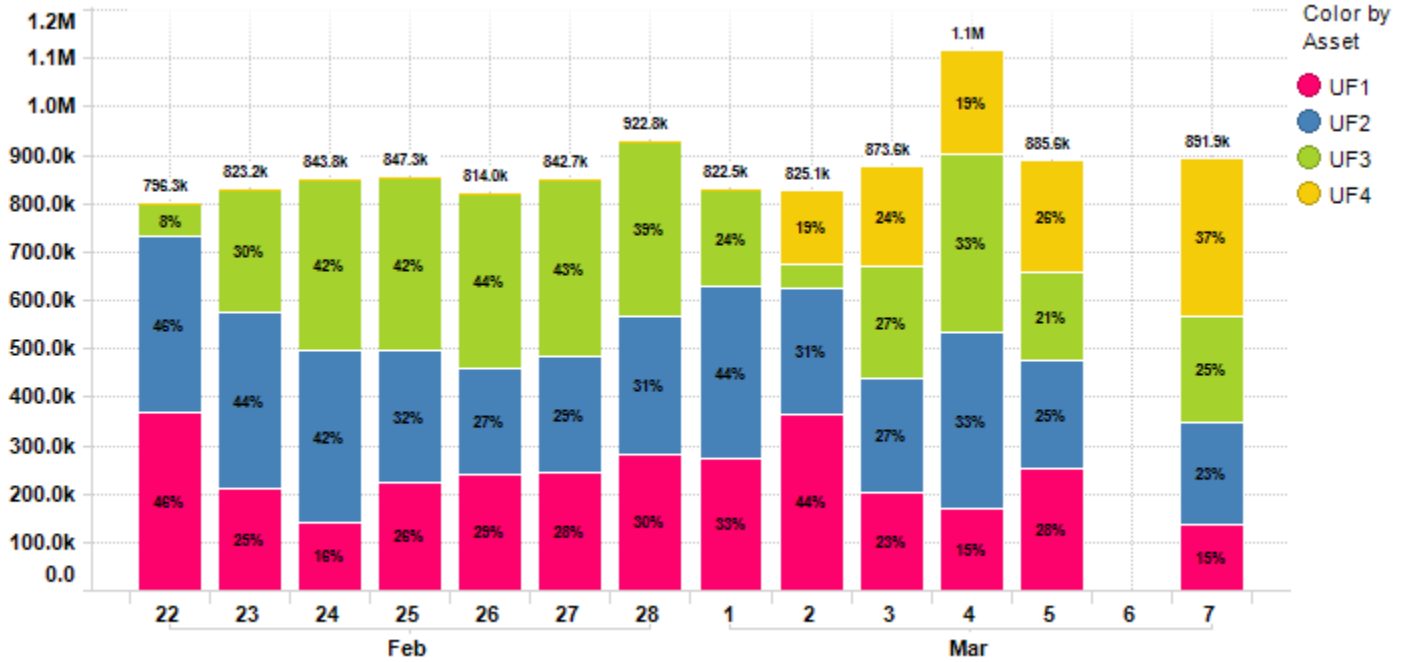
Before BPTMP Trend



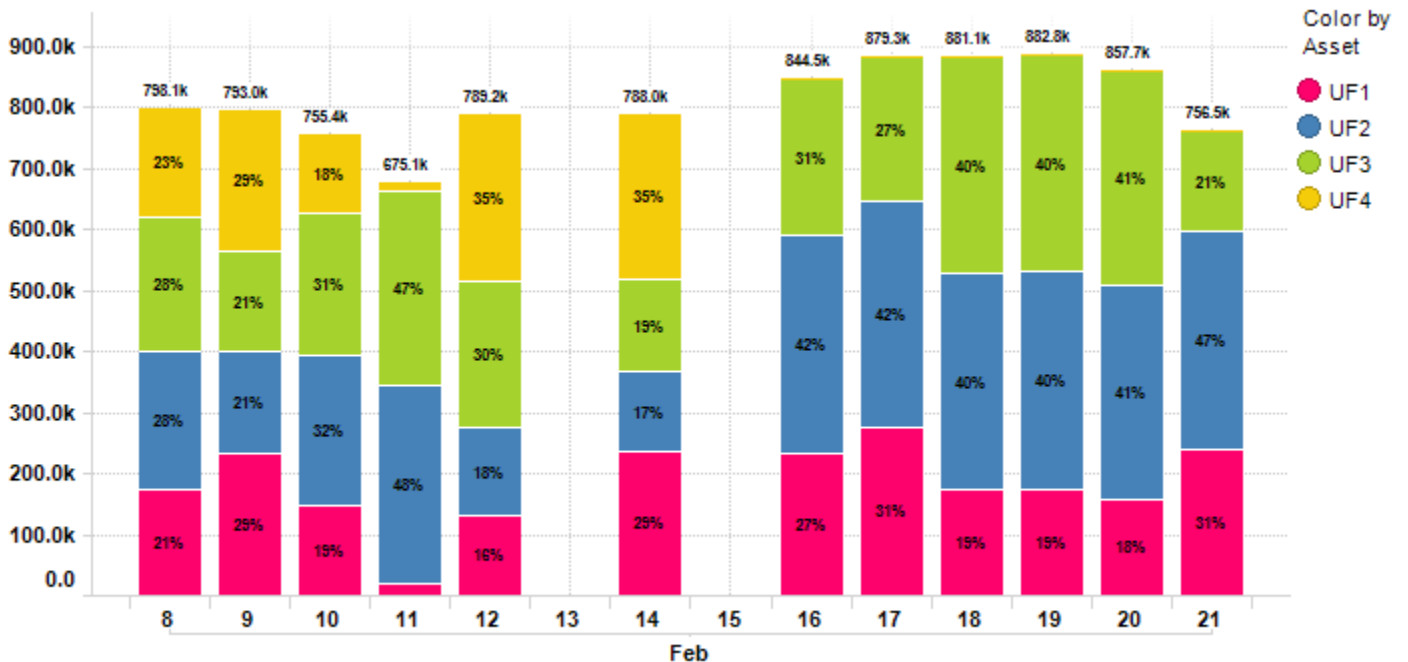
Before BP Flux Trend



Daily Permeate Flow



Average Daily permeate flow from 2/22/2023 to 3/7/2023 is 869.4k gal with a maximum daily flow of 1.1M gal.



Average Daily permeate flow from 2/8/2023 to 2/21/2023 is 808.4k gal with a maximum daily flow of 882.8k gal.

Asset Summary - Feb 22 – Mar 7

KPI Parameters	Value/Ch...	UF1	UF2	UF3	UF4
FluxBeforeBP gfd	Value	11.25	11.28	11.27	11.29
	Change	-0.47%	0.40%	1.17%	-1.53%
FluxDuringBP gfd	Value	18.51	18.49	18.32	18.75
	Change	-0.10%	0.74%	0.00%	0.09%
PermeateTurbidityAfterBP NTU	Value	0.05	0.08	0.07	0.05
	Change	-18.2...	-0.79%	-765...	20.75%
TCPPermeabilityBeforeBP gfd/psi	Value	4.27	10.27	11.44	5.79
	Change	-4.31%	-2.73%	8.56%	4.76%
TMPBeforeBP psi	Value	2.98	1.25	1.13	2.20
	Change	3.63%	2.65%	-12.2...	-8.30%
TotalPermeateFlowDaily gal	Value	235.1...	288.9...	258.0...	87.36k
	Change	23.59%	2.29%	1.67%	-6.15%

Asset Summary - Feb 8 – 21

KPI Parameters	Value/Ch...	UF1	UF2	UF3	UF4
FluxBeforeBP gfd	Value	11.30	11.24	11.14	11.46
	Change	2.90%	-2.18%	-2.48%	0.91%
FluxDuringBP gfd	Value	18.53	18.36	18.32	18.73
	Change	-0.08%	-0.25%	0.07%	-0.15%
PermeateTurbidityAfterBP NTU	Value	0.06	0.08	0.63	0.04
	Change	-35.9...	-15.2...	49.48%	-13.9...
TCPPermeabilityBeforeBP gfd/psi	Value	4.45	10.55	10.46	5.52
	Change	-7.19%	-8.00%	41.57%	-13.3...
TMPBeforeBP psi	Value	2.87	1.22	1.26	2.38
	Change	6.33%	3.06%	-74.3...	11.68%
TotalPermeateFlowDaily gal	Value	179.6...	282.2...	253.7...	92.73k
	Change	-24.1...	22.08%	25.46%	-152....

Plant Summary - Feb 22 – Mar 7

KPI Parameters	Value/Change	UF Plant
PermeateTemperature °F	Value	59.69
	Change	0.60%
TotalPermeateFlowDaily gal	Value	953.40k
	Change	6.24%

Plant Summary - Feb 8 – 21

KPI Parameters	Value/Change	UF Plant
PermeateTemperature °F	Value	59.33
	Change	2.16%
TotalPermeateFlowDaily gal	Value	893.93k
	Change	-6.93%



Contract Expiry Date: 08/11/2025

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Work Orders Completed in Prior Month

WO No.	Asset Description	Brief Description	Comments	Work Completed Date	WO Type
1951	Generator	Monthly Generator Inspection		02/02/2023	PM
1953	Generator	Monthly Generator Inspection		02/02/2023	PM
1958	Overhead Trolley 1	Hoist Inspection - Annual		02/02/2023	PM
1959	Overhead Trolley 2	Hoist Inspection - Annual		02/02/2023	PM
1960	Hoist	Hoist Inspection - Annual		02/02/2023	PM
1961	Overhead Crane Davit Arm Second Floor	Hoist Inspection - Annual		02/02/2023	PM
1964	Overhead Trolley 1	Hoist Inspection - Monthly		02/02/2023	PM
1965	Overhead Trolley 2	Hoist Inspection - Monthly		02/02/2023	PM
1966	Hoist	Hoist Inspection - Monthly		02/02/2023	PM
1967	Overhead Crane Davit Arm Second Floor	Hoist Inspection - Monthly		02/02/2023	PM
1941	Pressure Washer	Monthly Rolling Stock PM		02/03/2023	PM
1942	Gehl Skid Steer	Monthly Rolling Stock PM		02/03/2023	PM
1947	Snowblower	Monthly Rolling Stock PM		02/03/2023	PM
1948	Edge Loader Brush	Monthly Rolling Stock PM		02/03/2023	PM
1983	Blowers	Weekly Oil Check		02/06/2023	PM
1987	Blowers	Weekly Oil Check		02/06/2023	PM
1989	Lewes DO Probes	Weekly DO meter PM		02/06/2023	PM
1986	Lewes Turbidimeters	Daily Turbidity Meter PM	All probes wiped daily.	02/07/2023	PM
1988	Howard Seymour STP	Weekly Universal Waste Inspection Inspection		02/08/2023	PM
1990	Howard Seymour STP	Monthly General Safety Inspection		02/08/2023	PM
1991	Howard Seymour STP	Monthly Housekeeping Inspection		02/08/2023	PM
1992	Howard Seymour STP	Monthly Fire Prevention and Emerg Action Inspctn		02/08/2023	PM
1999	Howard Seymour STP	Monthly Universal Waste Inspection		02/08/2023	PM
2052	Howard Seymour STP	Weekly Universal Waste Inspection Inspection		02/08/2023	PM
1946	Ford F350 Crane Truck	Monthly Rolling Stock PM		02/09/2023	PM
1901	Howard Seymour STP	Monthly Electrical System Inspection		02/20/2023	PM
1903	Howard Seymour STP	Monthly Machinery and Equipment Inspection		02/20/2023	PM
1904	Howard Seymour STP	Monthly Training and Recordkeeping Inspection		02/20/2023	PM
1905	Howard Seymour STP	Monthly Protective and Emergency Equipment Inspection		02/20/2023	PM
1906	Howard Seymour STP	Monthly Chemical Processing and Storage Inspection		02/20/2023	PM
1907	Howard Seymour STP	Monthly Universal Waste Inspection		02/20/2023	PM
1962	5 Ton Hoist, Process Building	Hoist Inspection - Monthly		02/20/2023	PM
1963	1 Ton Hoist, Process Building	Hoist Inspection - Monthly		02/20/2023	PM
1970	Blowers	Monthly Blower Inspection / PM		02/20/2023	PM

Work Orders Completed in Prior Month

WO No.	Asset Description	Brief Description	Comments	Work Completed Date	WO Type
1973	Lewes Exhaust Fans	Monthly Exhaust Fan Inspection		02/20/2023	PM
2038	Generator, Main Plant	Monthly Generator Inspection	Generator inspected. No issues noted	02/20/2023	PM
2039	Generator	Monthly Generator Inspection	Generator inspected. No issues noted	02/20/2023	PM
2040	Generator	Monthly Generator Inspection	Generator inspected. No issues noted	02/20/2023	PM
2051	Blowers	Weekly Oil Check		02/20/2023	PM
2053	Lewes DO Probes	Weekly DO meter PM		02/20/2023	PM
2012	LS #12 Market Street Devon Inn	Pump Station Monthly Inspection	FOG heavy. PS in front of restaurant. Will have to inquire condition of grease trap at restaurant.	02/21/2023	PM
2013	LS #13 Schley Avenue at the old Power Plant	Pump Station Monthly Inspection	Have been getting calls about high voltage. Have not been able to locate any problems. Pumps running with well empty on arrival. When pumps reset seemed to operate fine. Need to monitor moving forward.	02/21/2023	PM
2014	LS #14 Harborview Road	Pump Station Monthly Inspection	Both pumps in operation. Floats good. Heavy FOG	02/21/2023	PM
2015	LS #15 Cape Henlopen Dr Port Lewes	Pump Station Monthly Inspection	Light FOG. Pipe repaired 2/21/23 with clamp.	02/21/2023	PM
2016	LS #16 Henlopen Gardens	Pump Station Monthly Inspection	Electrical issues need to be addressed. Will be looking into repairing electrical as well as replacing floats.	02/21/2023	PM
2050	Lewes Turbidimeters	Daily Turbidity Meter PM	All probes wiped daily	02/21/2023	PM
2001	LS #1 U of D	Pump Station Monthly Inspection	PS operating normally. No issues to report.	02/22/2023	PM
2002	LS #2 Pilottown Rodney Ave	Pump Station Monthly Inspection	Piping needs replaced. Quotes have already been received and project has been approved.	02/22/2023	PM
2003	LS #3 Pilottown Marina	Pump Station Monthly Inspection	Pump 2 seals no good. Pumps obsolete and cannot be repaired. Both pumps due to be replaced. Project approved awaiting parts.	02/22/2023	PM
2004	LS #4 Gills Neck Savannah	Pump Station Monthly Inspection	Flows recorded daily. New rotating unit put in this month. Bolt found in pump two that caused unit to lock up. Currently no issues.	02/22/2023	PM
2005	LS #5 California Ave	Pump Station Monthly Inspection	Heavy FOG. Pump station floods during high water events. Doors need new seals.	02/22/2023	PM
2006	LS #6 Connecticut Ave	Pump Station Monthly Inspection	Hinges on hatch to wet well broken. Quote received from Breakwater Construction to repair/replace.	02/22/2023	PM
2007	LS #7 Cape Henlopen Dr Pilot Point	Pump Station Monthly Inspection	All operations normal.	02/22/2023	PM
2008	LS #8, American Legion	Pump Station Monthly Inspection	Flows recorded daily. All operating normally.	02/22/2023	PM
2009	LS #9 Sussex Drive	Pump Station Monthly Inspection	Medium FOG. Floats and pumps good.	02/22/2023	PM
2010	LS #10 Reserves	Pump Station Monthly Inspection	Light FOG. Floats may need repaired/replaced in the future.	02/22/2023	PM

Work Orders Completed in Prior Month

WO No.	Asset Description	Brief Description	Comments	Work Completed Date	WO Type
2011	LS #11 Hoornkill Avenue	Pump Station Monthly Inspection	Heavy FOG. Door to wet well needs repaired/replaced. Received quote from Breakwater Construction. Will speak to client about moving forward.	02/22/2023	PM
2017	LS #17 Savannah Road Huling Cove	Pump Station Monthly Inspection	Heavy FOG. Both pumps operating.	02/22/2023	PM
2020	LS #19 Pilottown Village Ocean Blvd	Pump Station Monthly Inspection	Pumps and floats operating normally. Motors need to be greased and sump pump exercised.	02/22/2023	PM
2021	LS #20 Monroe Ave	Pump Station Monthly Inspection	Operations normal. No issues to report.	02/22/2023	PM
2022	LS #21 Monroe Ave	Pump Station Monthly Inspection	Operations normal. No issues.	02/22/2023	PM
2023	LS #22 Monroe Ave	Pump Station Monthly Inspection	Operating normally. No issues to report.	02/22/2023	PM
2024	LS #23 Monroe Ave	Pump Station Monthly Inspection	Pumps operating normally. No issues to report.	02/22/2023	PM
2025	LS #25 Monroe Ave	Pump Station Monthly Inspection	Operating normally. No issues noted.	02/22/2023	PM
2028	LS #32 Canary Creek	Pump Station Monthly Inspection	Light FOG. Pumps and transducer operating normally. Pump 1=179gpm. Pump 2=185gpm	02/22/2023	PM
2029	LS #33 DNREC Station	Pump Station Monthly Inspection	Floats and pumps operating normally. No FOG issues.	02/22/2023	PM
2032	Pressure Washer	Monthly Rolling Stock PM		02/22/2023	PM
2034	Portable Water Pump, Gas	Monthly Rolling Stock PM		02/22/2023	PM
2035	Ford F350 Crane Truck	Monthly Rolling Stock PM		02/22/2023	PM
2036	Snowblower	Monthly Rolling Stock PM		02/22/2023	PM
2037	Edge Loader Brush	Monthly Rolling Stock PM		02/22/2023	PM
2055	Blowers	Weekly Oil Check	All oil levels are correct	02/22/2023	PM
2018	LS #17B	Pump Station Monthly Inspection	Unable to access. Lock will need to be cut off.	02/24/2023	PM
2019	LS #18 Drake Knoll	Pump Station Monthly Inspection	Heavy FOG. Pumps and floats operating normally	02/24/2023	PM
2026	LS #29 Washington Street	Pump Station Monthly Inspection	Pump station operating normally.	02/24/2023	PM
2027	LS #30 Washington Street	Pump Station Monthly Inspection	Pump station operating normally.	02/24/2023	PM
2030	LS #74 Cape Shores	Pump Station Monthly Inspection	Moderate FOG. Floats good. Both pumps operating. Pump 2 seal fail light on.	02/24/2023	PM
2031	LS #83	Pump Station Monthly Inspection	Light FOG. Pump one normal. Pump two was tripped on arrival. Floats operating normally.	02/24/2023	PM
2033	Gehl Skid Steer	Monthly Rolling Stock PM	Skid steer out for maintenance at Iron Source	02/24/2023	PM
2048	LS #17B	Pump Station Monthly Inspection	This is the tower hill pump station. Inspected and flows checked twice a week. Clean and operating properly.	02/24/2023	PM
2061	Lewes DO Probes	Weekly DO meter PM	All probes except 2A calibrated. 2A flashing and unable to be calibrated.	02/24/2023	PM
1993	Howard Seymour STP	Monthly Electrical System Inspection	All issues to be addressed noted on physical copy at facility.	02/27/2023	PM

Work Orders Completed in Prior Month

WO No.	Asset Description	Brief Description	Comments	Work Completed Date	WO Type
1996	Howard Seymour STP	Monthly Training and Recordkeeping Inspection		02/27/2023	PM
1998	Howard Seymour STP	Monthly Chemical Processing and Storage Inspection		02/27/2023	PM
2041	5 Ton Hoist, Process Building	Hoist Inspection - Monthly		02/27/2023	PM
2042	1 Ton Hoist, Process Building	Hoist Inspection - Monthly		02/27/2023	PM
2049	Lewes Exhaust Fans	Monthly Exhaust Fan Inspection		02/27/2023	PM
1994	Howard Seymour STP	Monthly Material Handling and Storage Inspection		02/28/2023	PM
1995	Howard Seymour STP	Monthly Machinery and Equipment Inspection		02/28/2023	PM
1997	Howard Seymour STP	Monthly Protective and Emergency Equipment Inspection		02/28/2023	PM
2000	Howard Seymour STP	Monthly SPCC Inspection	Need to add spill supplies	02/28/2023	PM
2043	Overhead Trolley 1	Hoist Inspection - Monthly		02/28/2023	PM
2044	Overhead Trolley 2	Hoist Inspection - Monthly		02/28/2023	PM
2045	Hoist	Hoist Inspection - Monthly		02/28/2023	PM
2046	Overhead Crane Davit Arm Second Floor	Hoist Inspection - Monthly		02/28/2023	PM
2047	Blowers	Monthly Blower Inspection / PM		02/28/2023	PM
2054	Lewes Turbidimeters	Daily Turbidity Meter PM	All probes wiped daily	02/28/2023	PM
2056	Howard Seymour STP	Weekly Universal Waste Inspection		02/28/2023	PM
2057	Lewes DO Probes	Weekly DO meter PM	1B will not calibrate. Looking into repair/replacement options.	02/28/2023	PM
2058	Lewes Turbidimeters	Daily Turbidity Meter PM	Probes wiped daily	02/28/2023	PM
2059	Blowers	Weekly Oil Check		02/28/2023	PM
2060	Howard Seymour STP	Weekly Universal Waste Inspection		02/28/2023	PM
2065	Howard Seymour STP	Weekly Universal Waste Inspection		02/28/2023	PM

Printed 103 items