

PUMP STATION 196

Nov-21		PS 196	
		METER READING	24 HOUR FLOW
MON	1	83105530	0.122970 L
TUE	2	83228500	0.120900 L
WED	3	83349400	0.117400 L
THU	4	83466800	0.117980 L
FRI	5	83584780	0.117730
SAT	6	83702510	0.120270
SUN	7	83822780	0.123090
MON	8	83945870	0.116720
TUE	9	84062590	0.115040
WED	10	84177630	0.115270
THU	11	84292900	0.112080
FRI	12	84404980	0.118010
SAT	13	84522990	0.122000
SUN	14	84644990	0.122330
MON	15	84767320	0.122420
TUE	16	84889740	0.119780
WED	17	85009520	0.118230
THU	18	85127750	0.108320
FRI	19	85236070	0.115630
SAT	20	85351700	0.120450
SUN	21	85472150	0.119080
MON	22	85591230	0.123750
TUE	23	85714980	0.125360
WED	24	85840340	0.138040
THU	25	85978380	0.158440
FRI	26	86136820	0.144130
SAT	27	86280950	0.147900
SUN	28	86428850	0.138510
MON	29	86567360	0.122800
TUE	30	86690160	0.124780
		86814940	
TOTAL COUNT		3.709410	total flow to lewes
AVERAGE	30	0.123647	in yellow 479,250 gallons
MINIMUM		0.108320	total flow back to
MAXIMUM		0.158440	Wolfe Neck 3,230,160 gallons

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 2021 11 01 TO 2021 11 30

REPORT DESIGNATOR: A
 DATA ENTRY COMPLETE: 12/27/2021
 REPORT SUBMITTED BY: richardplack
 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	0.593	0.828	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			--	6.32		9.39	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			--	7		7.6	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	<11	<15	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			--		207	207	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	<2	<3	lbs/Day		<0.5	0.6	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

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)

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				AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
2/1	TSS	SAMPLE MEASUREMENT				--		242	242	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		14.8	14.8	lbs/Day		2.44	2.44	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		0.12	0.12	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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Monthly Operations Report: November 2021

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	Mon.	0.723															
2	Tue.	0.725	<2.4	<15	<0.5	<3		0.1	0.73	2.4	14.75	0.2	1	1.7	11	0.7	4
3	Wed.	0.627					<1.0										
4	Thu.	0.600															
5	Fri.	0.597															
6	Sat.	0.638															
7	Sun.	0.605															
8	Mon.	0.608															
9	Tue.	0.445	<2.4	<9	<0.5	<2											
10	Wed.	0.828					<1.0										
11	Thu.	0.601															
12	Fri.	0.641															
13	Sat.	0.654															
14	Sun.	0.505															
15	Mon.	0.585															
16	Tue.	0.584															
17	Wed.	0.598	<2.4	<12	0.5	3											
18	Thu.	0.583					<1.0										
19	Fri.	0.584															
20	Sat.	0.564															
21	Sun.	0.558															
22	Mon.	0.553															
23	Tue.	0.541	<2.4	<11	<0.5	<2											
24	Wed.	0.510					<1.0										
25	Thu.	0.562															
26	Fri.	0.591															
27	Sat.	0.553															
28	Sun.	0.553															
29	Mon.	0.532															
30	Tue.	0.548	<2.4	<11	0.6	3											
TOTAL		17.7960															
AVERAGE		0.5932	<2.40	<11.44	<0.52	<2.48	1.0	0.12	0.73	2.44	14.75	0.19	1.15	1.74	10.52	0.70	4.23
MAXIMUM		0.8280	<2.40	<14.50	0.60	<3.00	<1.00	0.12	0.73	2.44	14.75	0.19	1.15	1.74	10.52	0.70	4.23
MINIMUM		0.4450	<2.40	<8.90	<0.50	<1.90	<1.00	0.12	0.73	2.44	14.75	0.19	1.15	1.74	10.52	0.70	4.23
Removal (%)			98.8		99.8												

INFLUENT						
DATE	DAY	Flow	BOD		TSS	
		MGD	mg/L	lbs	mg/L	lbs
1	Mon.	0.657				
2	Tue.	0.664	207.0	1146	242.0	1340
3	Wed.	0.650				
4	Thu.	0.288				
5	Fri.	0.514				
6	Sat.	0.553				
7	Sun.	0.562				
8	Mon.	0.512				
9	Tue.	0.380				
10	Wed.	0.319				
11	Thu.	0.535				
12	Fri.	0.553				
13	Sat.	0.531				
14	Sun.	0.504				
15	Mon.	0.493				
16	Tue.	0.482				
17	Wed.	0.483				
18	Thu.	0.489				
19	Fri.	0.503				
20	Sat.	0.492				
21	Sun.	0.481				
22	Mon.	0.492				
23	Tue.	0.347				
24	Wed.	0.423				
25	Thu.	0.506				
26	Fri.	0.561				
27	Sat.	0.524				
28	Sun.	0.471				
29	Mon.	0.457				
30	Tue.	0.459				
TOTAL		14.8850				
AVERAGE		0.50	207	1,146	242	1,340
MAXIMUM		0.66	207	1,146	242	1,340
MINIMUM		0.29	207	1,146	242	1,340
Removal (%)						

LEWES WWTF

NUTRIENT OFFSET REPORT 2021

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											773.51
January	31	0.7158	5.95	1,101.12	9.30	0.21	38.86	5.41	9.30	-	764.21
February	28	1.0566	7.70	1,899.88	16.05	0.35	86.36	12.31	16.05	-	748.16
March	31	1.0056	6.06	1,575.53	13.31	0.32	83.20	11.86	13.31	-	734.85
April	30	0.8386	4.09	858.15	7.25	0.27	56.65	8.07	8.07	-	726.78
May	31	0.8335	6.23	1,342.52	11.34	1.97	424.52	60.50	60.50	-	666.28
June	30	0.9106	3.52	801.97	6.78	1.52	346.30	49.35	49.35	-	616.93
July	31	0.8902	5.60	1,288.85	10.89	0.30	69.05	9.84	10.89	-	606.04
August	31	0.7576	7.69	1,506.24	12.73	1.66	325.14	46.34	46.34	-	559.70
September	30	0.6797	3.87	658.14	5.56	0.05	8.50	1.21	5.56	-	554.14
October	31	0.7129	3.16	582.43	4.92	<0.05	9.22	1.31	4.92	-	549.22
November	30	0.5932	2.44	362.14	3.06	0.12	17.81	2.54	3.06	-	546.16
December	31		-		-	-		-		-	
Year Balance											546.16

Comments:

Authorized Signatory

Date

LEWES BPW WWTP Biweekly InSight Report

Date: 12/2/2021

From: Erin Horocholyn - Suez Water Technologies & Solutions
 To: Austin Calaman BPW, Inframark
 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 trains UF3 and UF4

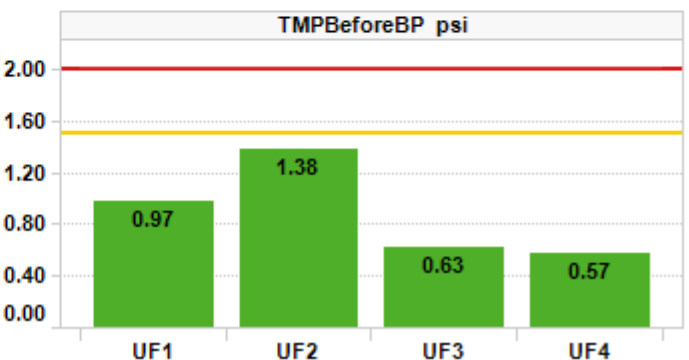
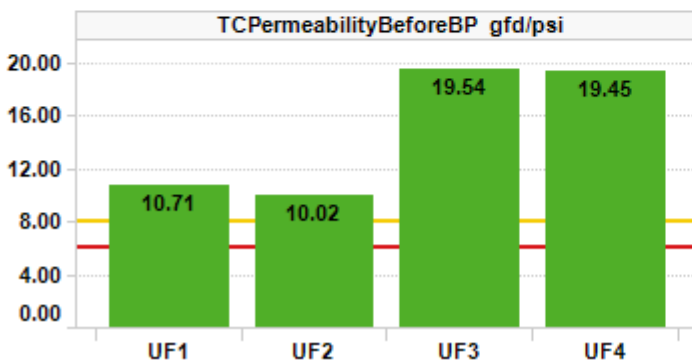
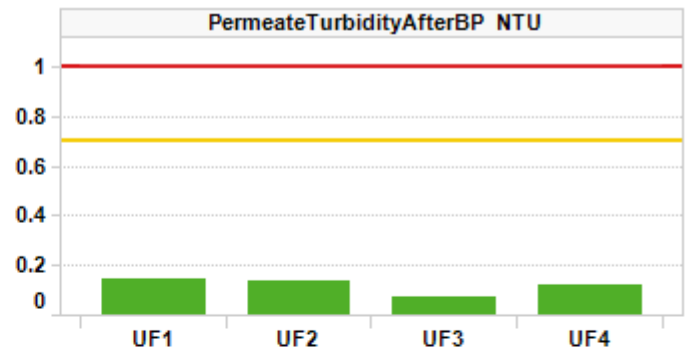
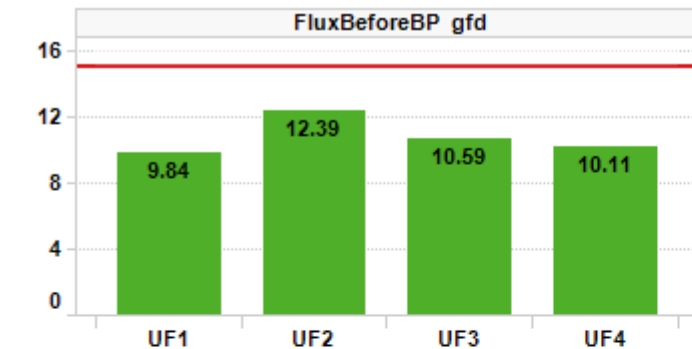
Cleaning Strategy

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 reporting period

■ Action Required
■ Caution
■ No Limits
■ Normal



Plant Summary

All trains had good KPI levels for permeability, TMP, and turbidity. All online trains except UF2 are ≤ 1.0 psi for TMP and >8.0 gfd/psi for permeability which is excellent.

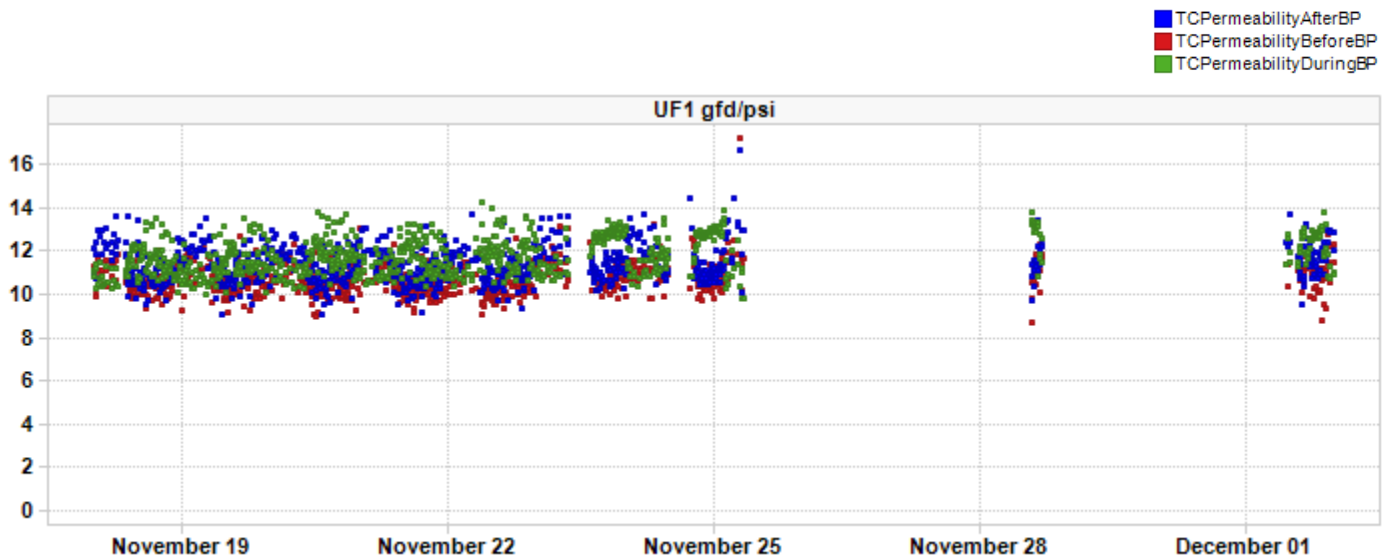
- Daily permeate production averaged 0.54 MGD. Permeate temperature averaged 63°F (-4°F). All online trains are in Backpulse with constant LEAP Hi aeration
- TMP BBP was excellent, averaging <1.0 psi on trains UF1, UF3, and UF4. UF2's TMP averaged 1.4
- TC permeability BBP averages were excellent and >8 gfd/psi. UF1, UF2, UF3, and UF4 averaged 11, 10, 20, and 19 gfd/psi respectively
- Permeate turbidity ABP averages ranged from 0.07 – 0.15 NTU on all online trains. There was a spike on UF1's permeate turbidity on Nov 28, peaking at 4.5 NTU

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

Train	UF1	UF2	UF3	UF4
# of Hypochlorite MCs	1	2	1	1
# of Citric Acid MCs	1	2	1	1

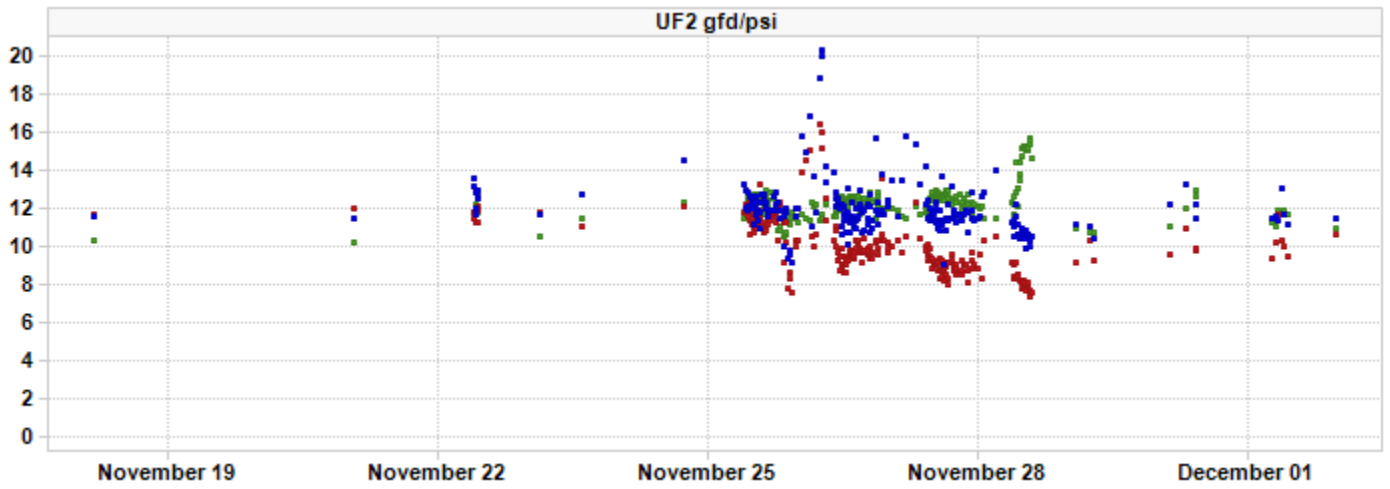
- Aerobic tank 1 dissolved oxygen averaged 1.27 ppm, tank 2 averaged 2.48 ppm. The pre-anoxic zone's DO averages were 0.81 ppm in tank 1, and 1.15 ppm in tank 2

TC Permeability Trends By Train

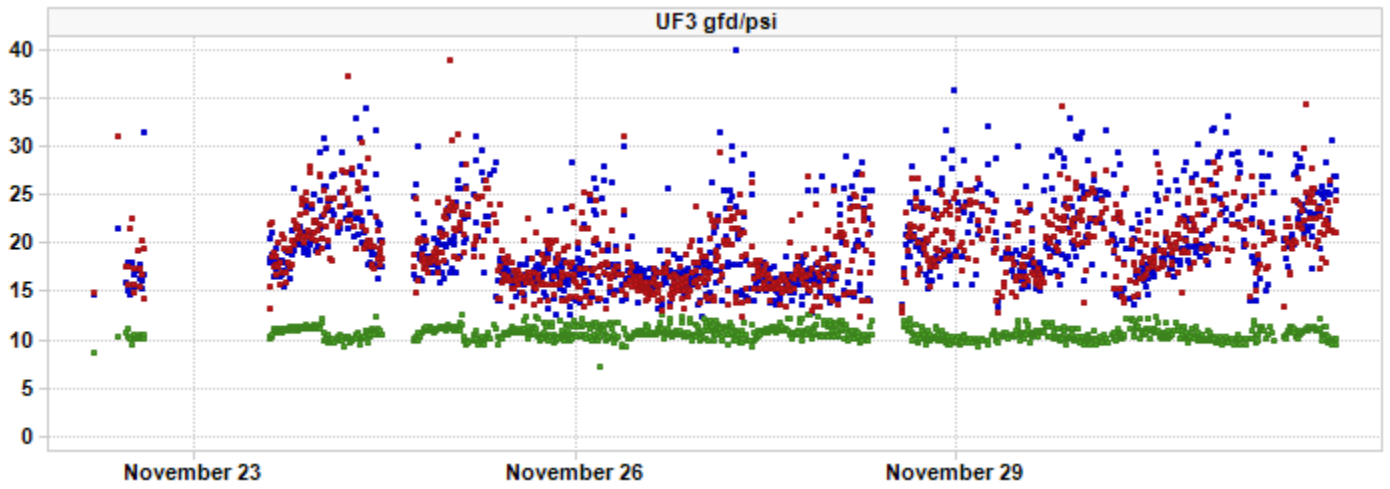




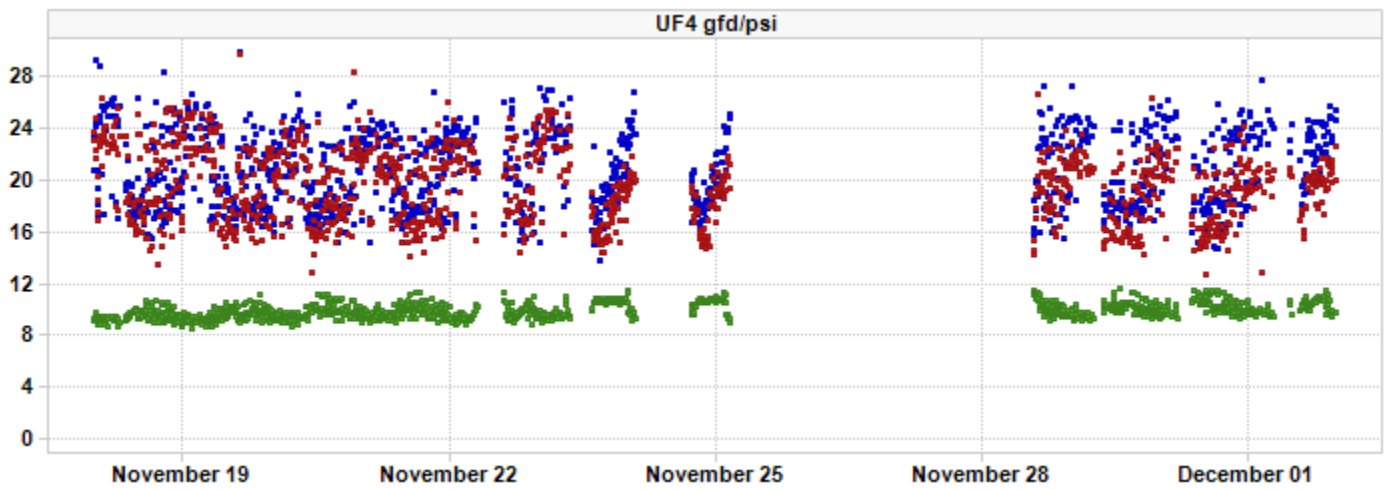
■ TCPermeabilityAfterBP
■ TCPermeabilityBeforeBP
■ TCPermeabilityDuringBP



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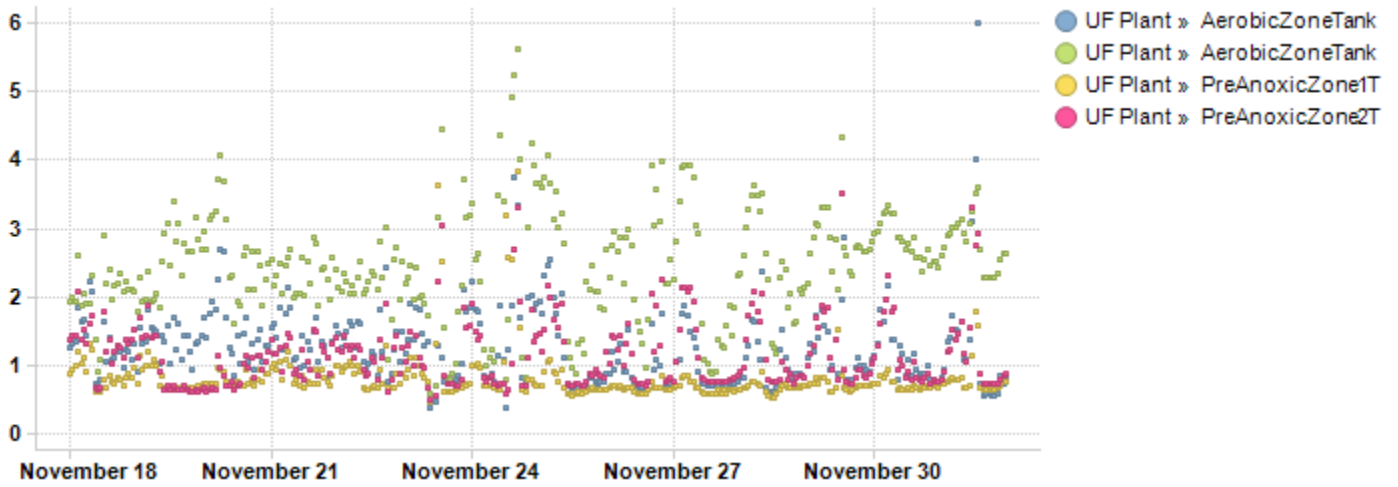


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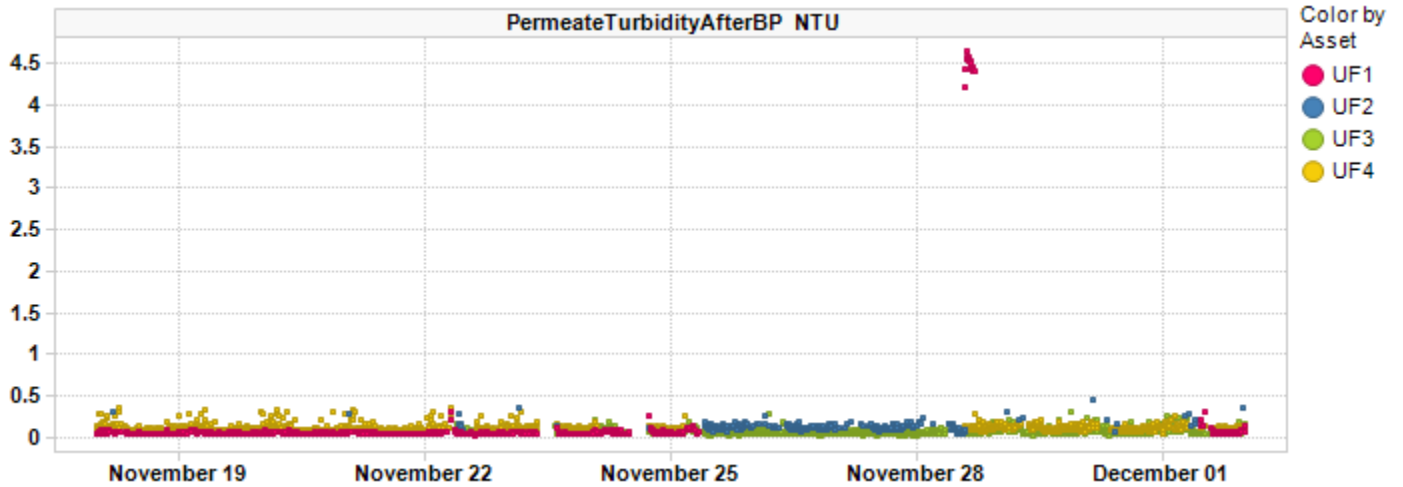




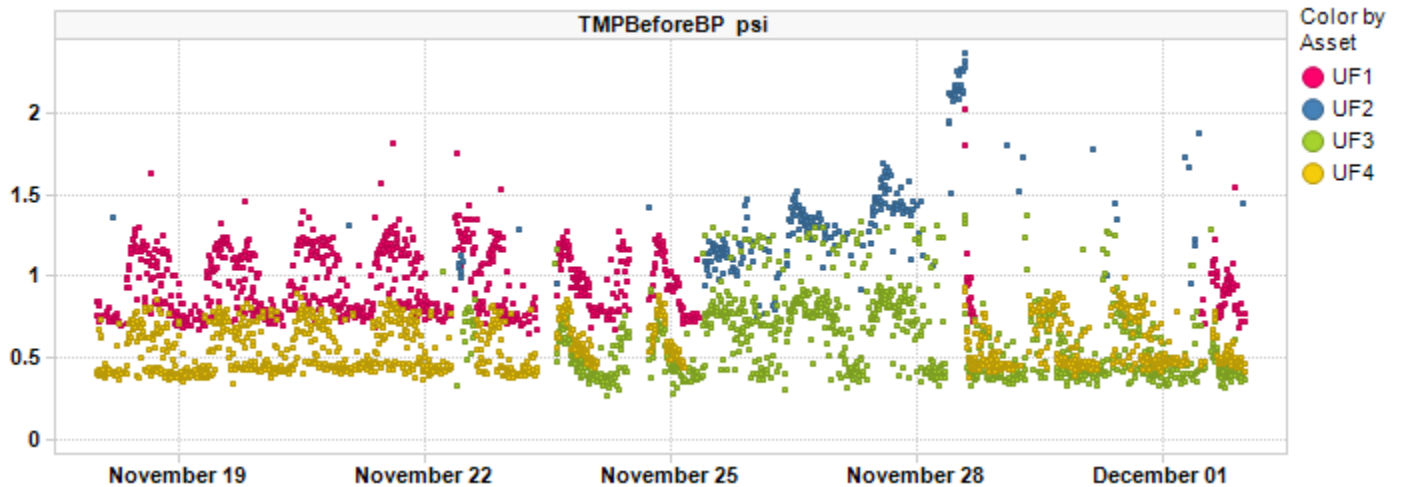
Bioreactor Dissolved Oxygen



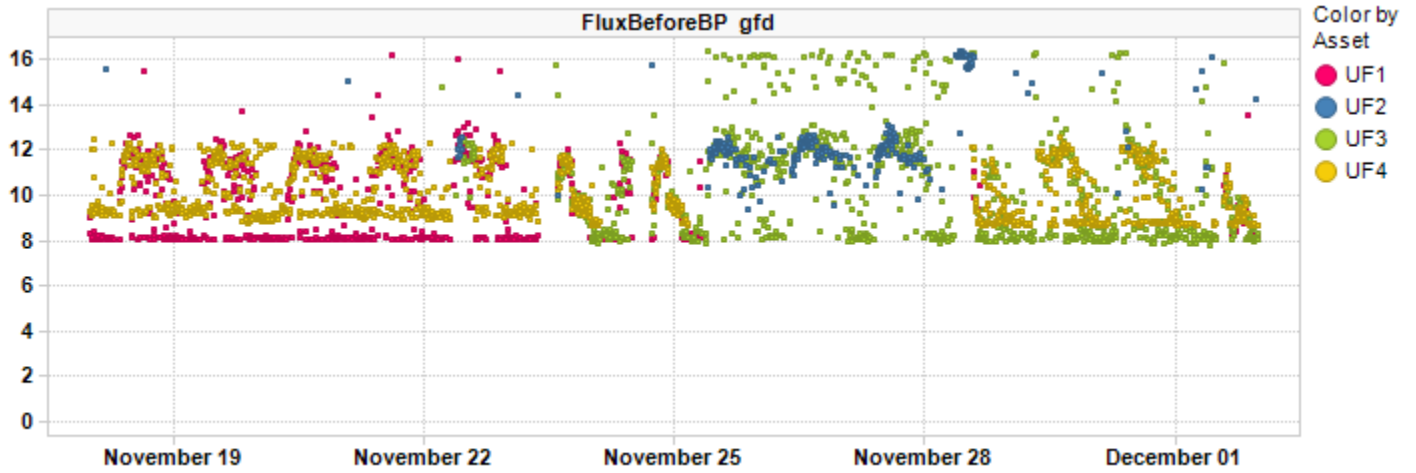
Permeate Turbidity Trend



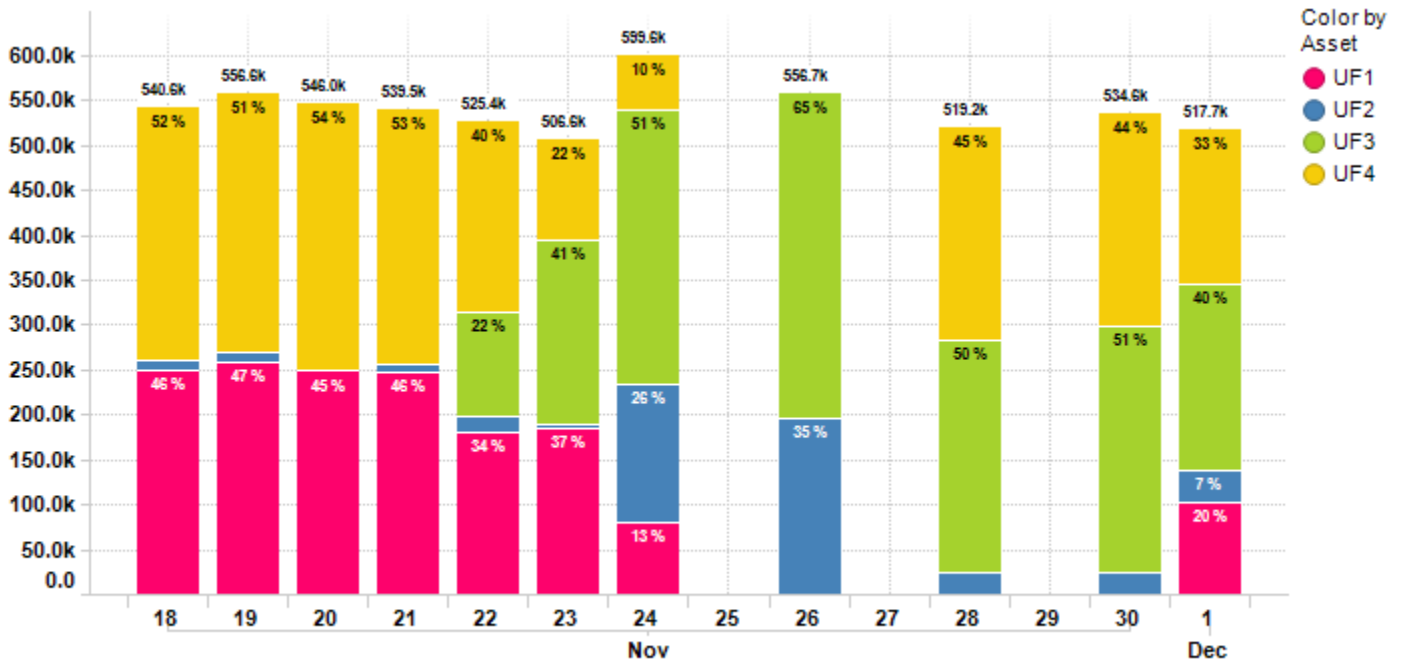
Before BPTMP Trend



Before BP Flux Trend



Daily Permeate Flow



Average Daily permeate flow from 11/18/2021 to 12/1/2021 is 540.2k gal with a maximum daily flow of 599.6k gal.



Asset Summary

KPI Parameters	Value/Change	UF1	UF2	UF3	UF4
FluxBeforeBP gfd	Value	9.84	12.39	10.59	10.11
	Change	-4.07 %	16.80 %	6.48 %	-4.66 %
FluxDuringBP gfd	Value	18.80	18.40	18.58	18.75
	Change	-0.08 %	-0.21 %	-0.22 %	0.11 %
PermeateTurbidityAfterBP NTU	Value	0.15	0.14	0.07	0.12
	Change	40.51 %	27.95 %	10.30 %	2.65 %
TCPermeabilityBeforeBP gfd/psi	Value	10.71	10.02	19.54	19.45
	Change	4.68 %	-9.95 %	4.61 %	0.14 %
TMPBeforeBP psi	Value	0.97	1.38	0.63	0.57
	Change	-5.08 %	30.06 %	10.01 %	-0.25 %
TotalPermeateFlowDaily gal	Value	155.53k	48.09k	173.37k	197.50k
	Change	-57.71 %	-15.80 %	30.26 %	-4.23 %

Plant Summary

KPI Parameters	Value/Change	UF Plant
PermeateTemperature °F	Value	63.33
	Change	-6.17 %
TotalPermeateFlowDaily gal	Value	614.29k
	Change	-11.30 %

Contract Expiry Date : 08/11/2021

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



LEWES BPW WWTP Biweekly InSight Report

Date: 12/15/2021

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

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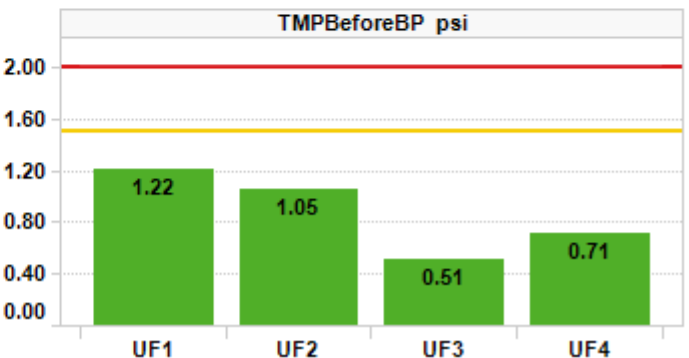
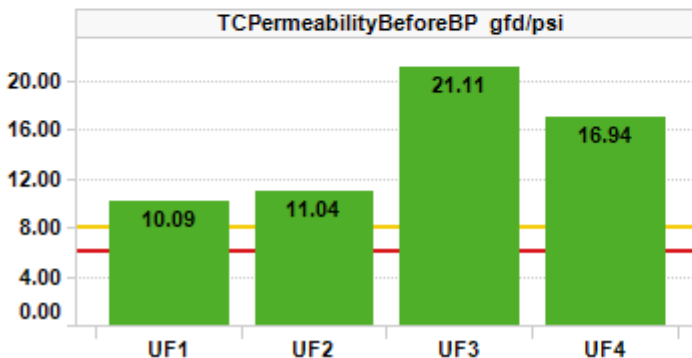
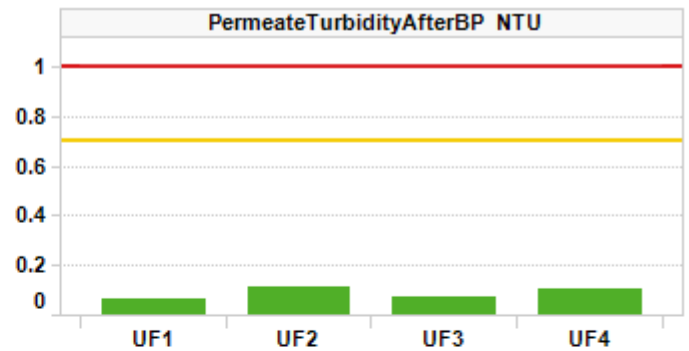
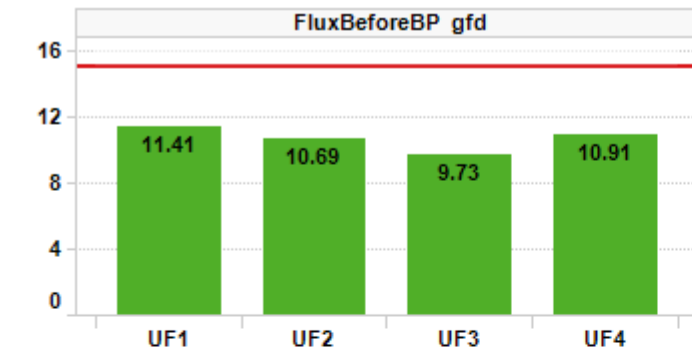
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■ Action Required
■ Caution
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Plant Summary

All trains are operating well overall. Permeability was >8.0 gfd/psi on all trains which is excellent. TMPs were close to or less than 1 psi on all trains. Turbidity was stable and low. Aerobic tank 1’s average DO fell to 0.6 mg/L in this report.

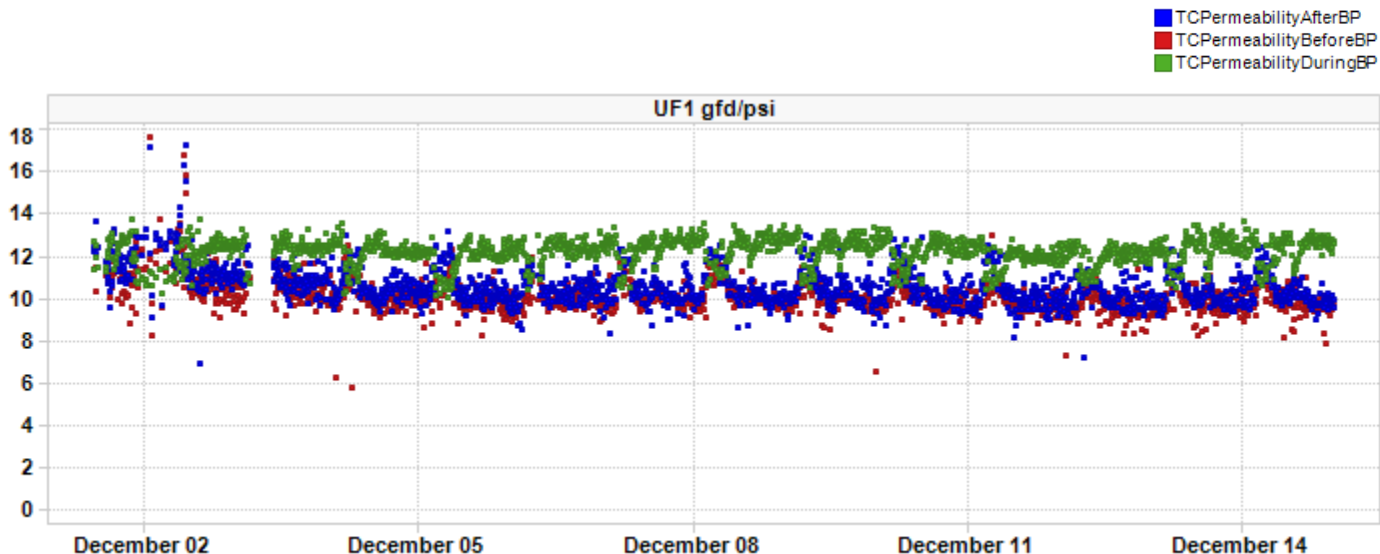
- Daily permeate production averaged 0.74 MGD. UF1 and UF4 produced the majority of permeate and UF2 and UF3 producing <10% of daily permeate from Dec 3 onwards. Permeate temperature averaged 63°F (-0°F). All online trains are in Backpulse with constant LEAP Hi aeration
- TMP BBP was good, averaging <1.0 psi on trains UF3 and UF4. UF1 and UF2’s TMP averaged 1.2 and 1.1 psi. UF1 and UF4’s TMPs rose slightly in this report, correlated to the higher flows through those trains
- TC permeability BBP averages were excellent and >8 gfd/psi. UF1, UF2, UF3, and UF4 averaged 10, 11, 21, and 17 gfd/psi respectively
- Permeate turbidity ABP averages ranged from 0.06 – 0.11 NTU with stable trends on all online trains

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

Train	UF1	UF2	UF3	UF4
# of Hypochlorite MCs	2	1	2	2
# of Citric Acid MCs	2	2	2	2

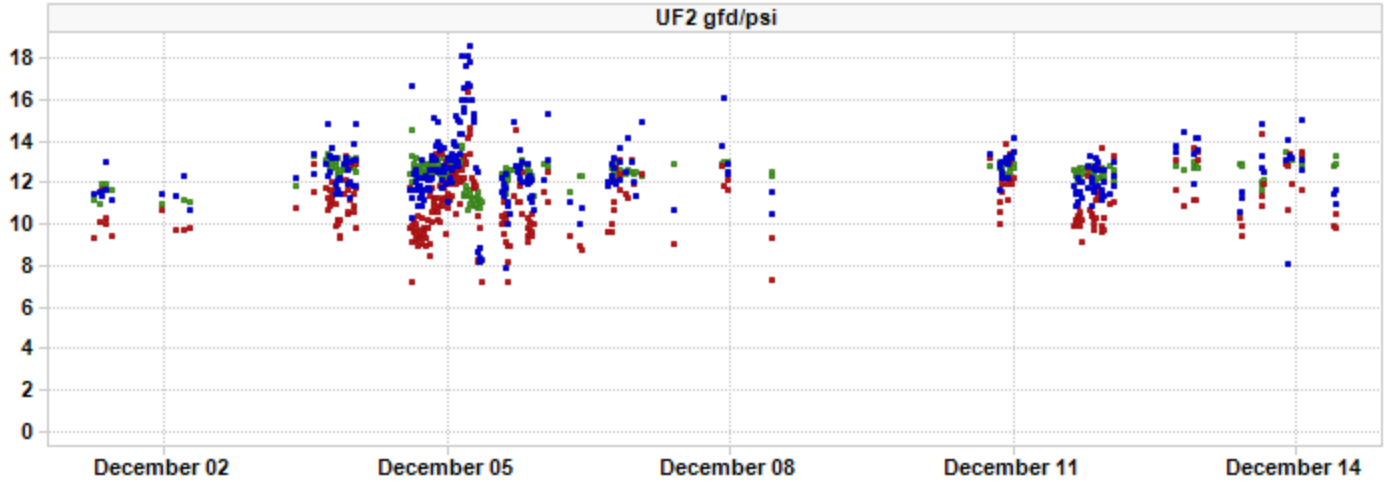
- Aerobic tank 1 dissolved oxygen averaged 0.60 ppm (down from 1.27 ppm) which may be low for aerobic biology. Tank 2 averaged 2.14 ppm. The pre-anoxic zone’s DO averages were 0.68 ppm in tank 1, and 1.16 ppm in tank 2

TC Permeability Trends By Train

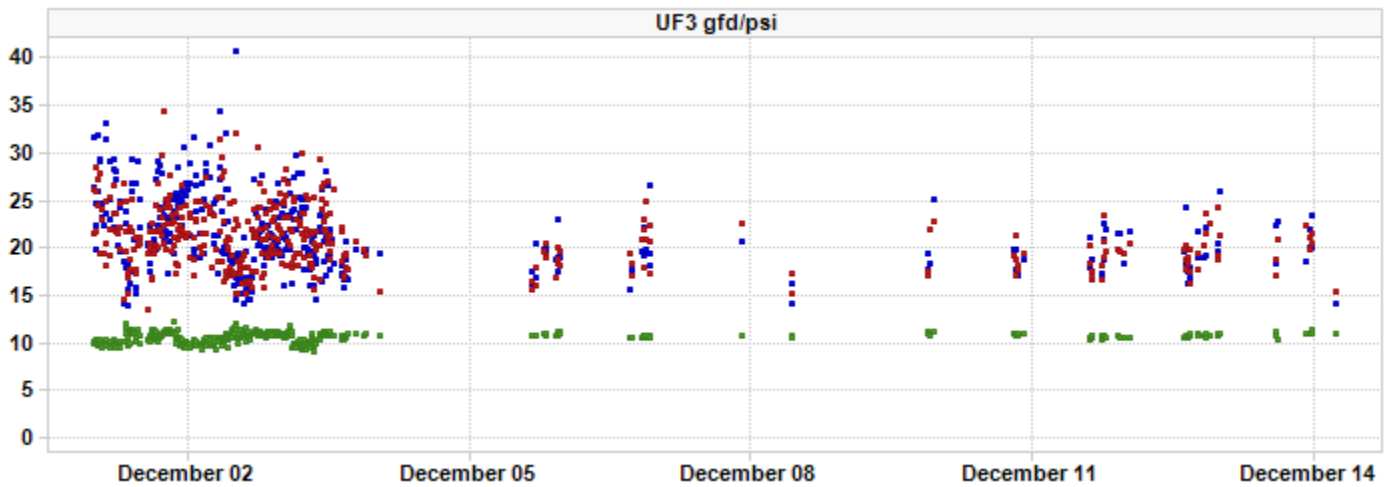




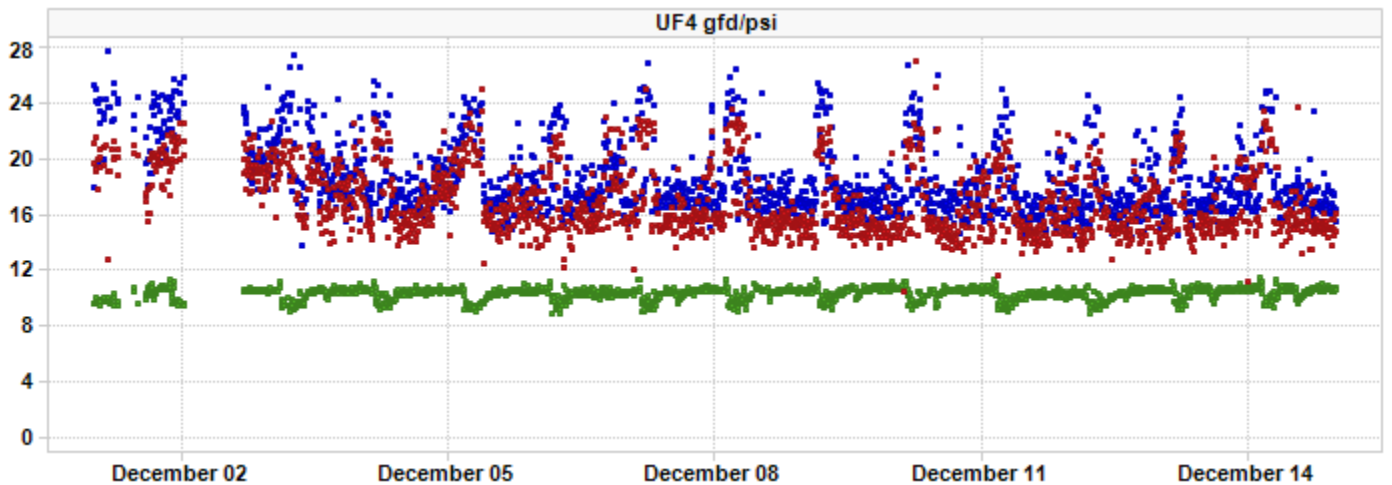
■ TCPermeabilityAfterBP
■ TCPermeabilityBeforeBP
■ TCPermeabilityDuringBP



■ TCPermeabilityAfterBP
■ TCPermeabilityBeforeBP
■ TCPermeabilityDuringBP

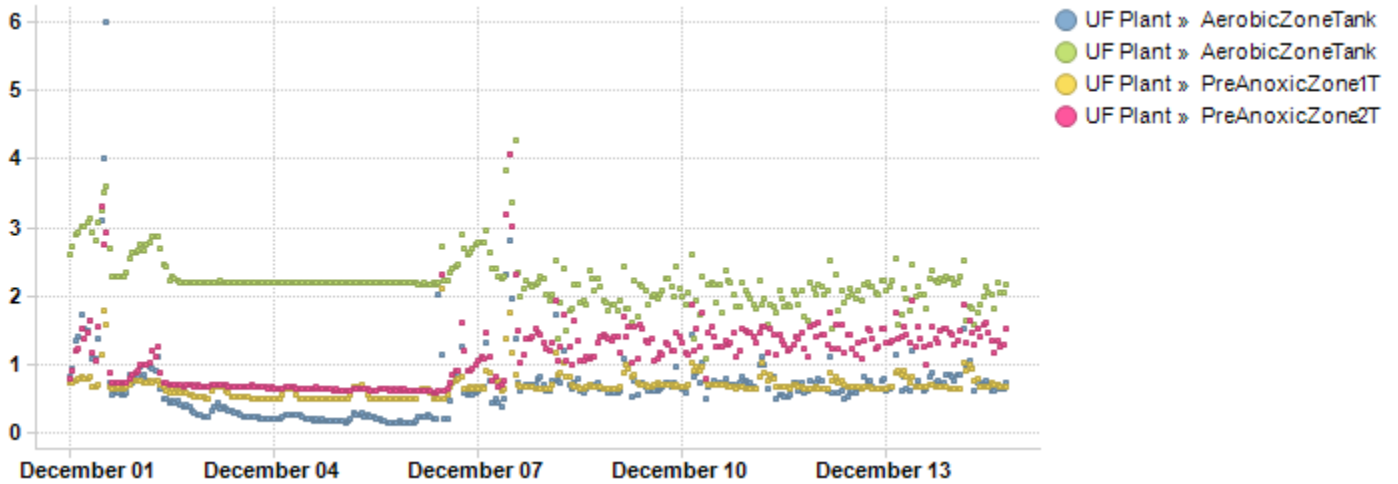


■ TCPermeabilityAfterBP
■ TCPermeabilityBeforeBP
■ TCPermeabilityDuringBP

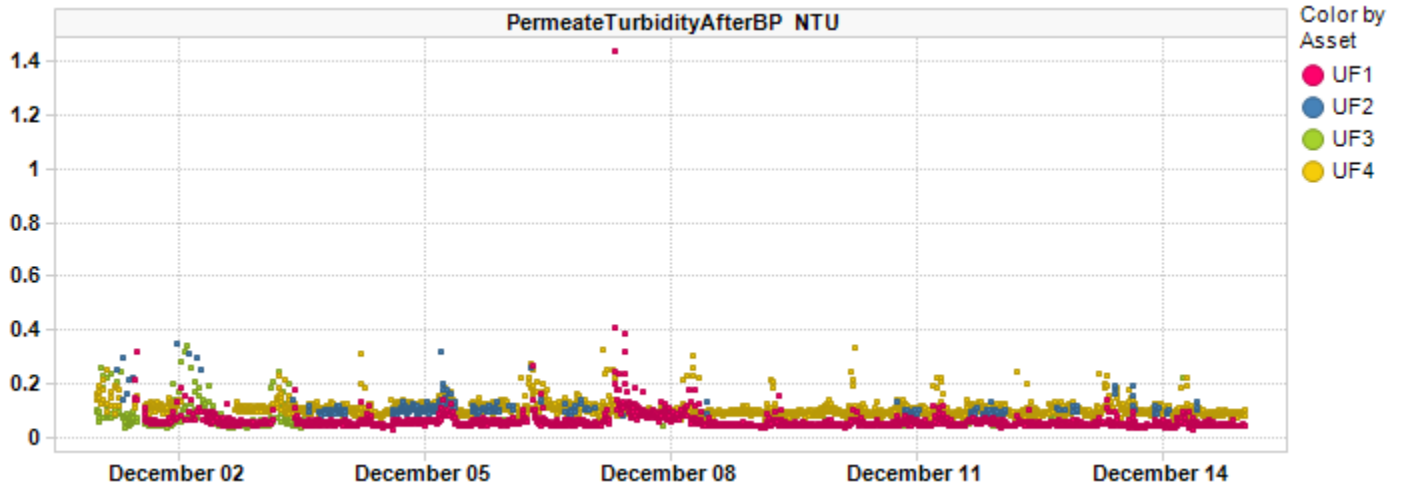




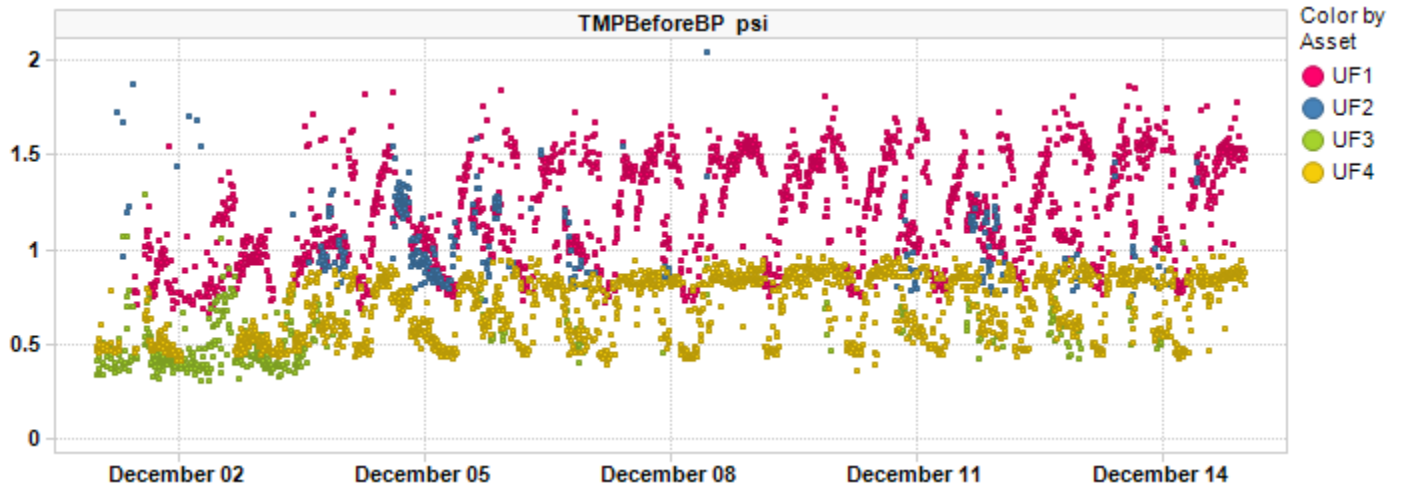
Bioreactor Dissolved Oxygen



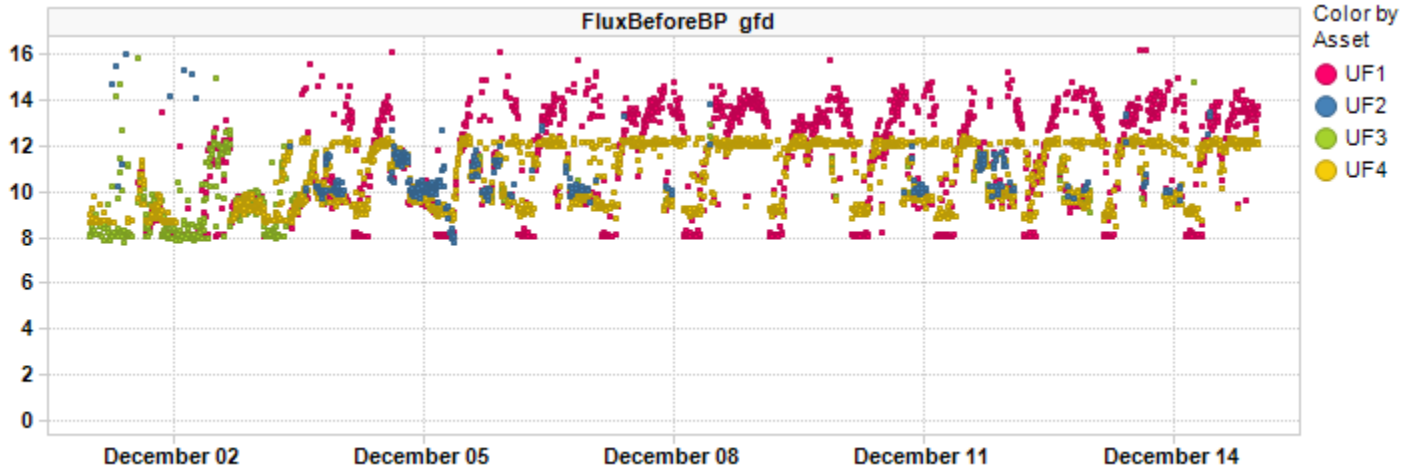
Permeate Turbidity Trend



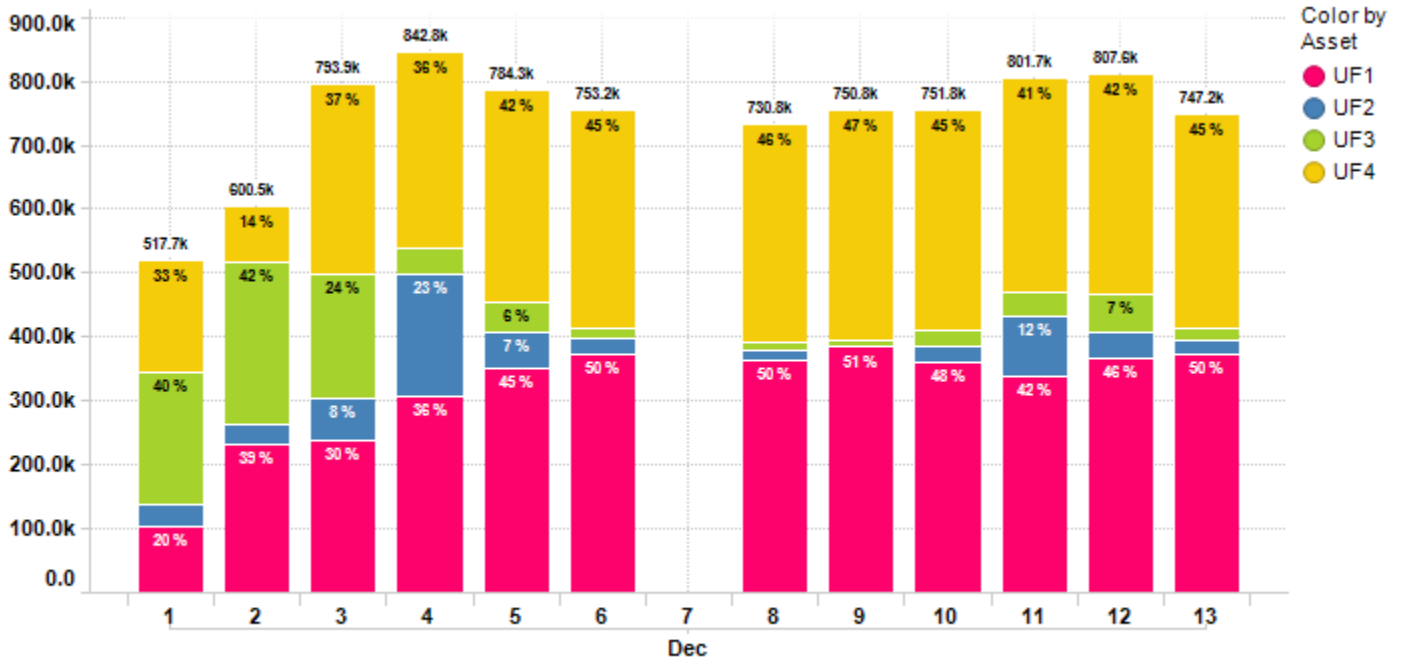
Before BPTMP Trend



Before BP Flux Trend



Daily Permeate Flow



Average Daily permeate flow from 12/1/2021 to 12/14/2021 is 740.2k gal with a maximum daily flow of 842.8k gal.



Asset Summary

KPI Parameters	Value/Change	UF1	UF2	UF3	UF4
FluxBeforeBP gfd	Value	11.41	10.69	9.73	10.91
	Change	12.41 %	-15.59 %	-10.67 %	6.08 %
FluxDuringBP gfd	Value	18.80	18.45	18.57	18.75
	Change	0.02 %	0.26 %	-0.06 %	0.02 %
PermeateTurbidityAfterBP NTU	Value	0.06	0.11	0.07	0.11
	Change	-130.22 %	-17.84 %	5.44 %	-7.25 %
TCPermeabilityBeforeBP gfd/psi	Value	10.09	11.04	21.11	16.94
	Change	-5.76 %	9.26 %	8.77 %	-14.92 %
TMPBeforeBP psi	Value	1.22	1.05	0.51	0.71
	Change	18.72 %	-31.35 %	-26.33 %	18.34 %
TotalPermeateFlowDaily gal	Value	315.95k	50.29k	76.45k	297.50k
	Change	45.38 %	10.66 %	-102.11 %	30.11 %

Plant Summary

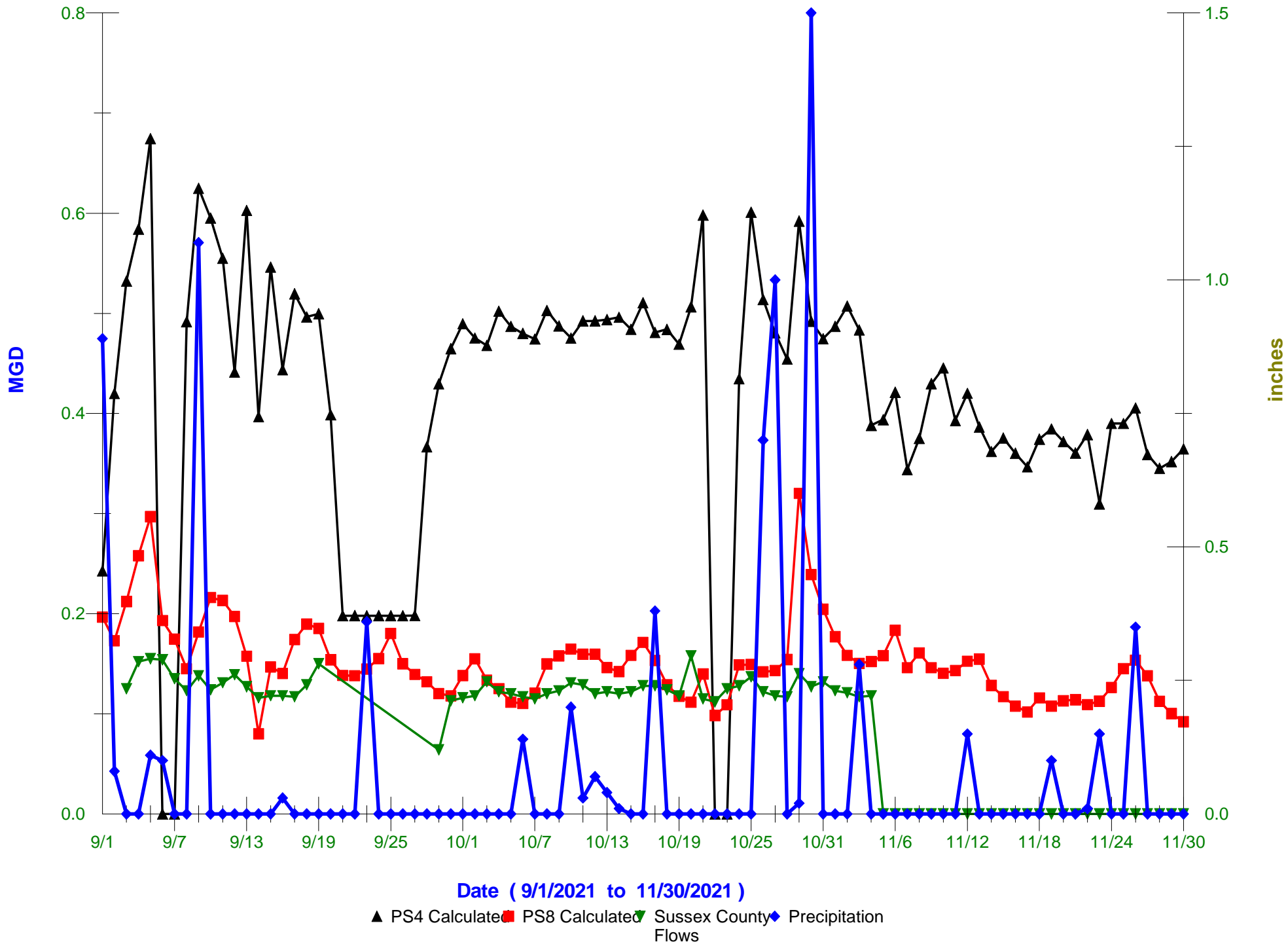
KPI Parameters	Value/Change	UF Plant
PermeateTemperature °F	Value	63.44
	Change	-0.22 %
TotalPermeateFlowDaily gal	Value	821.67k
	Change	24.75 %

Contract Expiry Date : 08/11/2021

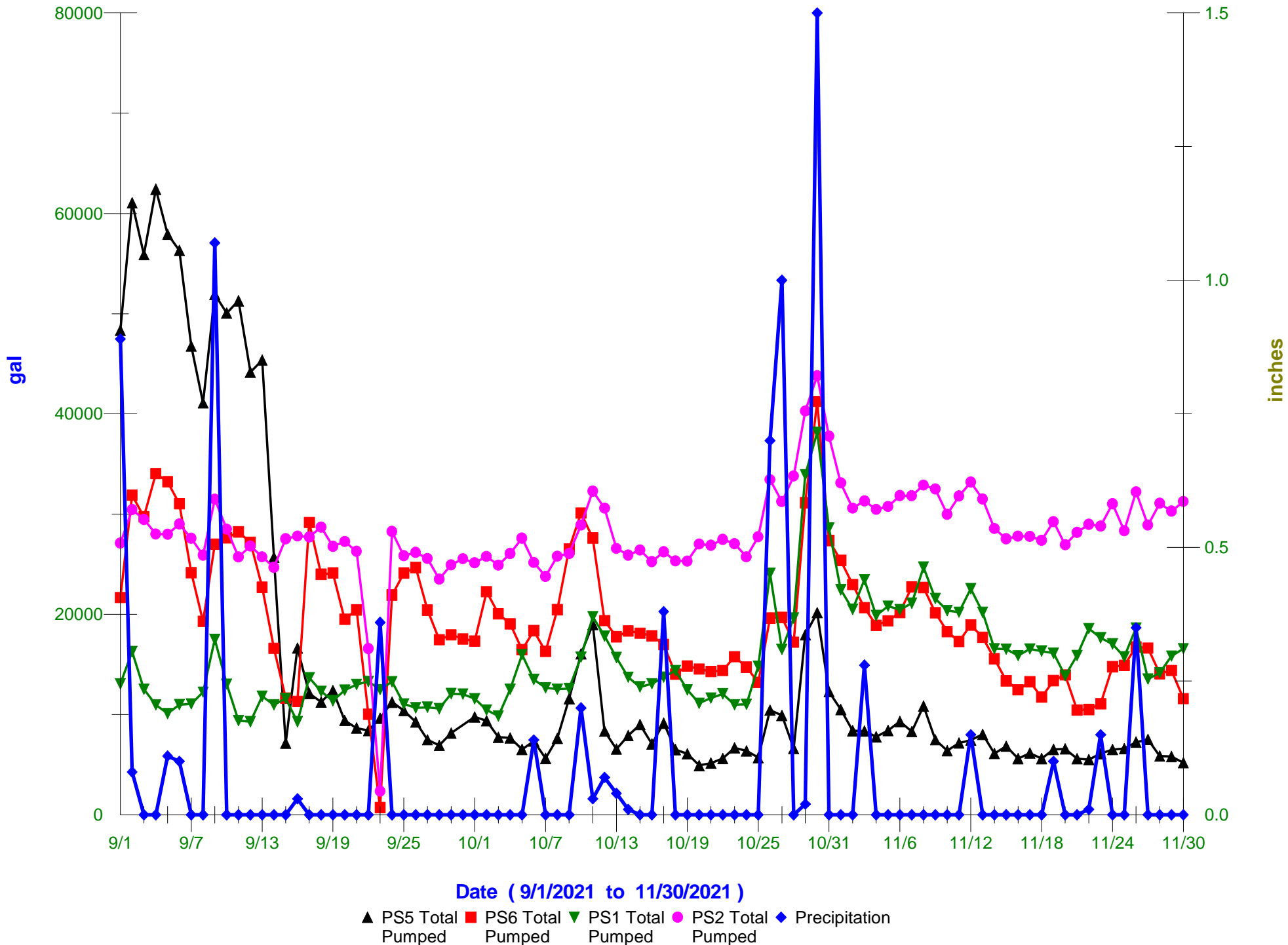
For InSight technical assistance please email insight.src@suez.com or please call technical support at 1 866 271 5425 or 905 469 7723 and follow the prompts, if you require after hours assistance please contact the 24/7 Emergency number provided in your plant documentation. This email is a summary of 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

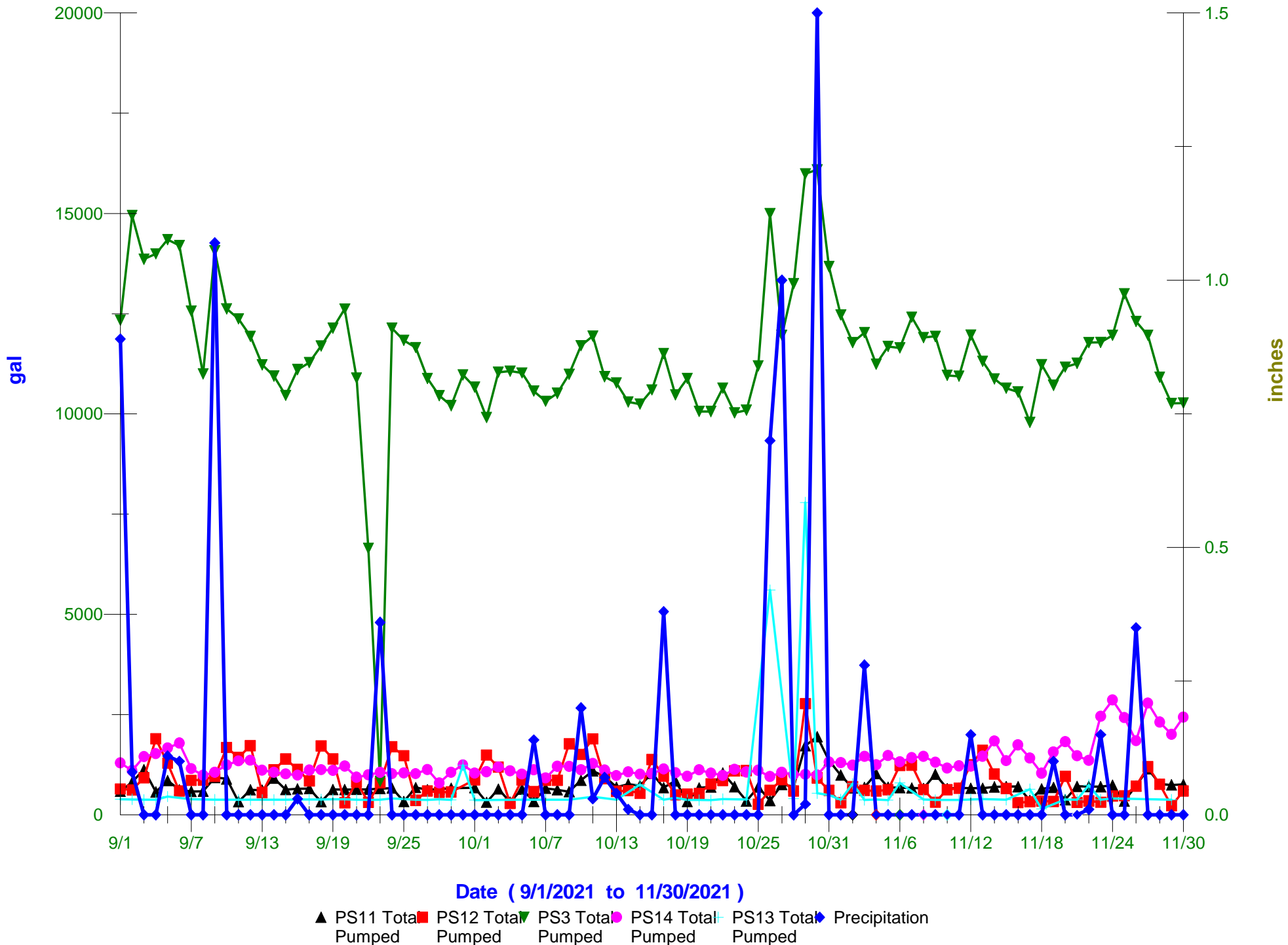
Data Over Time



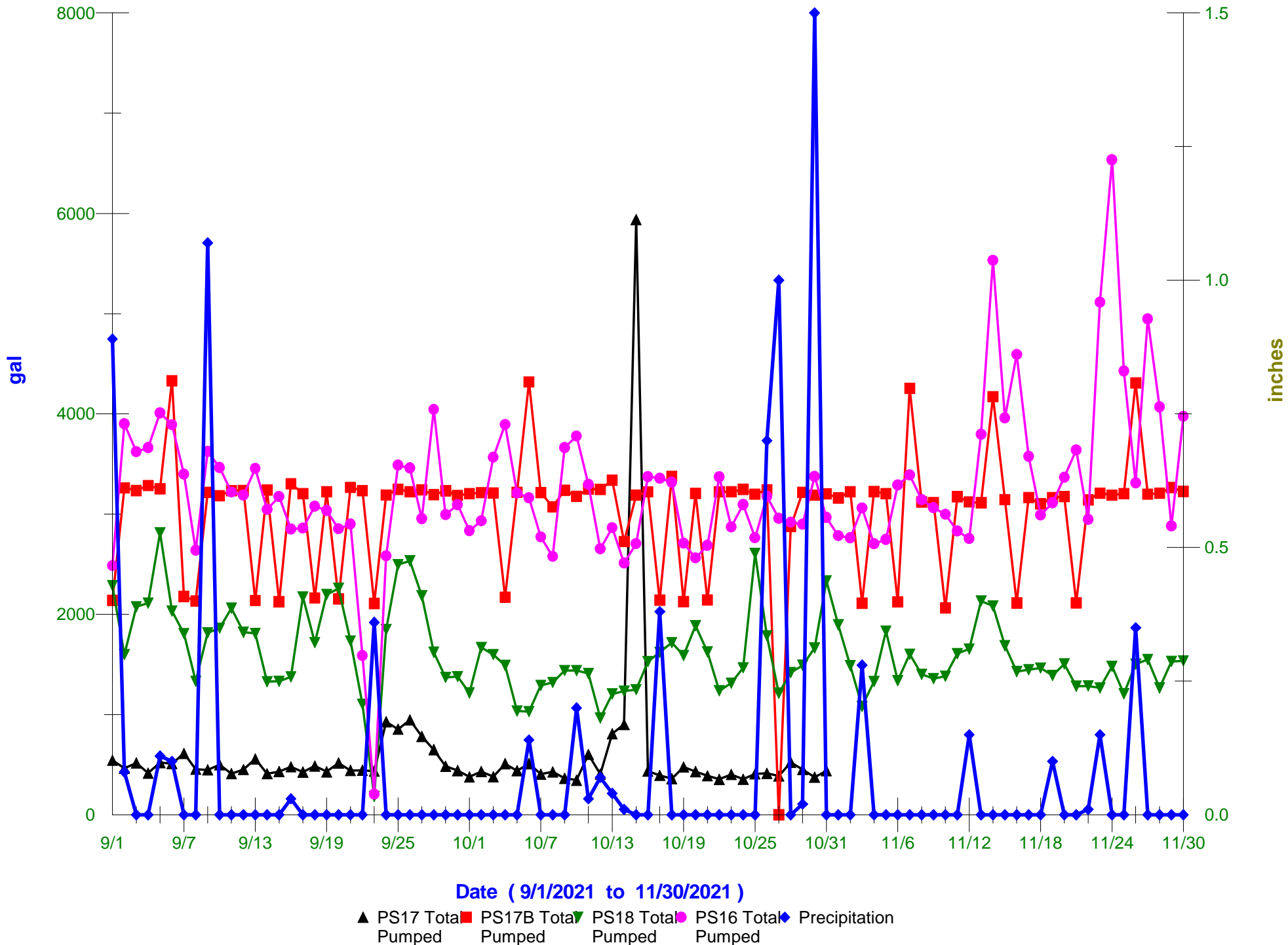
Data Over Time



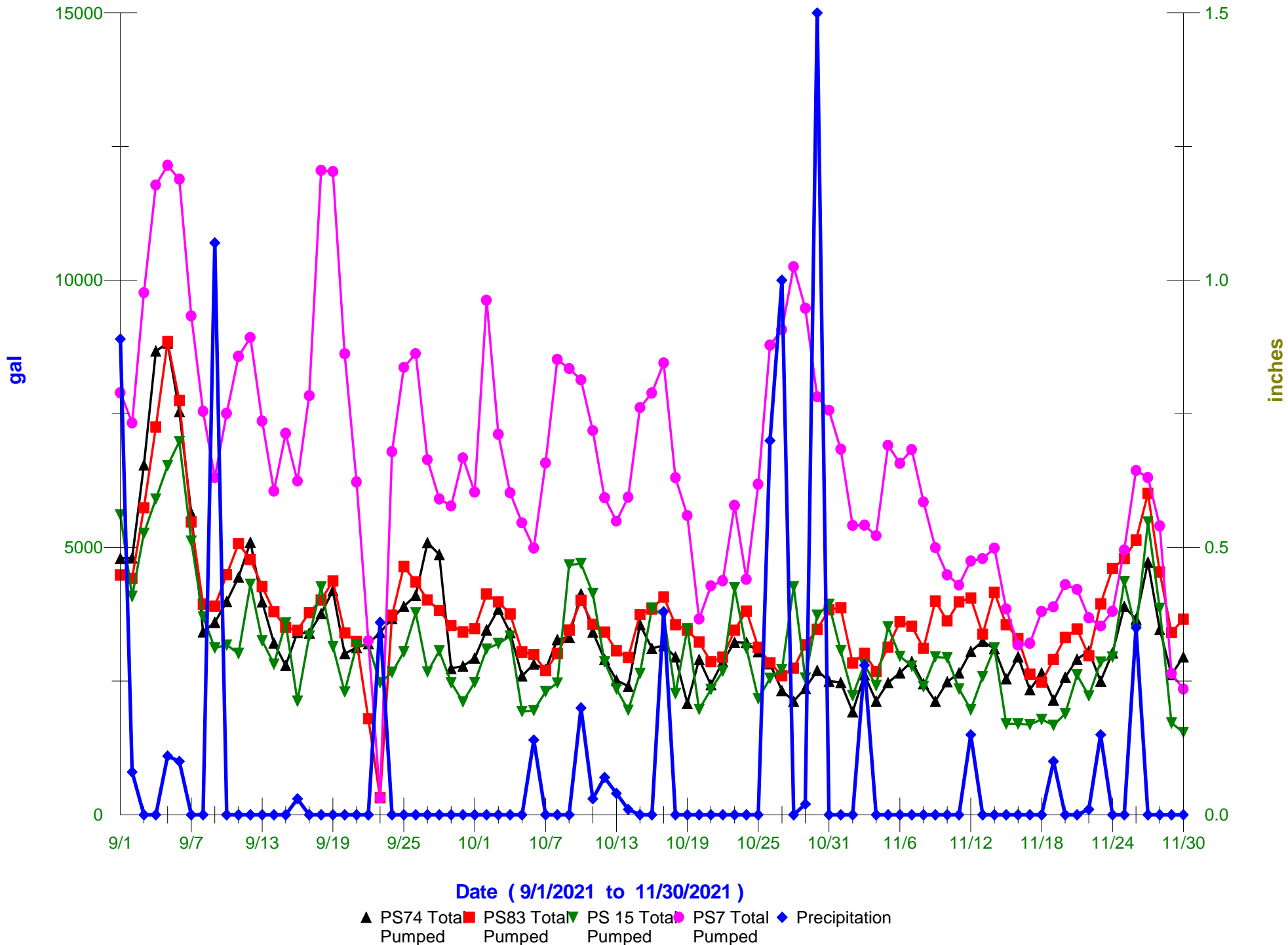
Data Over Time



Data Over Time



Data Over Time



Data Over Time

