

PUMP STATION 196

Jul-21		PS 196	
		METER READING	24 HOUR FLOW
THUR	1	66078490	0.242780
FRI	2	66321270	0.277490
SAT	3	66598760	0.280160
SUN	4	66878920	0.253750
MON	5	67132670	0.236420
TUE	6	67369090	0.166520
WED	7	67535610	0.150910
THU	8	67686520	0.173340
FRI	9	67859860	0.151940
SAT	10	68011800	0.150770
SUN	11	68162570	0.148010
MON	12	68310580	0.136320
TUE	13	68446900	0.131010
WED	14	68577910	0.128850
THU	15	68706760	0.132220
FRI	16	68838980	0.148130
SAT	17	68987110	0.155030
SUN	18	69142140	0.144400
MON	19	69286540	0.134030
TUE	20	69420570	0.132180
WED	21	69552750	0.127600
THU	22	69680350	0.134260
FRI	23	69814610	0.145820
SAT	24	69960430	0.142400
SUN	25	70102830	0.146370
MON	26	70249200	0.142920
TUE	27	70392120	0.127320
WED	28	70519440	0.132890
THU	29	70652330	0.133130
FRI	30	70785460	0.114600
SAT	31	70900060	0.172720
		71072780	
TOTAL			4.994290
COUNT			31
AVERAGE			0.161106
MINIMUM			0.114600
MAXIMUM			0.280160



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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 06 01 TO 2021 06 30

REPORT DESIGNATOR A
 DATA ENTRY COMPLETE 7/28/2021
 REPORT SUBMITTED BY richardblack
 STATUS OF SUBMISSION Submitted for Signature

#	PARAMETER	NDI	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
			AVERAGE	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM					
1/1	Flow	SAMPLE MEASUREMENT	0.911	1.215					0	99/99	RCOTOT	
	Gross Effluent (50050)	PERMIT REQUIREMENT	No Limit Monitoring Req'd	No Limit Monitoring Req'd	No Monitoring Required	No Monitoring Required	No Monitoring Required			99/99	RCOTOT	
1/2	Dissolved oxygen (DO)	SAMPLE MEASUREMENT			2.46				0	99/99	Inersion	
	Gross Effluent (00300)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required	No Limit Monitoring Req'd	No Monitoring Required	No Limit Monitoring Req'd			99/99	Inersion	
1/3	pH	SAMPLE MEASUREMENT			6.9				0	01/01	Grab	
	Gross Effluent (00400)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required	6	No Monitoring Required	No Monitoring Required			01/01	Grab	
1/4	Enterococcus	SAMPLE MEASUREMENT							0	01/07	Grab	
	Gross Effluent (31639)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required	No Monitoring Required	10	104			01/07	Grab	
1/5	BOD5	SAMPLE MEASUREMENT	<17	<20					0	01/07	Composite 24	
	Gross Effluent (00310)	PERMIT REQUIREMENT	188	288	No Monitoring Required	<2.4	2.4			01/07	Composite 24	
1/6	BOD5	SAMPLE MEASUREMENT							0	01/30	Composite 24	
	Raw Sewage (00310)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required	No Monitoring Required	<315	<315			01/30	Composite 24	
1/7	TSS	SAMPLE MEASUREMENT	<5	<7					0	01/07	Composite 24	
	Gross Effluent (00530)	PERMIT REQUIREMENT	188	288	No Monitoring Required	No Limit Monitoring Req'd	No Limit Monitoring Req'd			01/07	Composite 24	

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

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER _____ TELEPHONE _____ DATE _____

ATTACH DIGITAL SIGNATURE RECEIPT FROM _____

IDENTIFY 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 DIRECTED AND SUPERVISED THE COLLECTION, ANALYSIS, AND REPORTING OF DATA AND THAT THE 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 TO THE BEST OF MY KNOWLEDGE AND BELIEF. I AM NOT PROVIDING THE SIGNATURE OF ANY OTHER PERSONS WHOSE NAMES ARE LISTED IN THIS REPORT, NOR AM I PROVIDING THE SIGNATURE OF ANY OTHER PERSONS WHOSE NAMES ARE LISTED IN THIS REPORT.

PERMITTEE: _____

DATE: _____



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

DISCHARGE MONITORING REPORT (DMR)

DE0021512 PERMIT NUMBER
 001 DISCHARGE NUMBER

REPORT DESIGNATOR: A
 DATA ENTRY COMPLETE: 7/28/2021
 REPORT SUBMITTED BY: richardplack
 STATUS OF SUBMISSION: Submitted for Signature

MONITORING PERIOD FROM 2021 06 01 TO 2021 06 30

#	PARAMETER	NDI	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			UNITS	NO. EX. OF ANALYSIS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
			AVERAGE	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM				
2/1	TSS											
	Raw Sewage (00530)		No Monitoring Required	No Monitoring Required	No Monitoring Required	No Limit Monitoring Req'd	No Limit Monitoring Req'd	No Limit Monitoring Req'd	mg/l	0	01/30	Composite 24
	Gross Effluent (00600)		19.05	19.05	No Limit Monitoring Req'd	3.52	3.52	No Limit Monitoring Req'd	mg/l	0	01/30	Composite 24
2/2	Total Nitrogen		100	No Limit Monitoring Req'd	No Monitoring Required	8	No Limit Monitoring Req'd	mg/l	--	0	01/30	Composite 24
	Gross Effluent (00665)		8.23	8.23	No Monitoring Required	1.5	1.5	No Limit Monitoring Req'd	mg/l	0	01/30	Composite 24
2/3	Phosphorus, Total		25	No Limit Monitoring Req'd	No Monitoring Required	2	No Limit Monitoring Req'd	mg/l	--	0	01/30	Composite 24

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

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER: _____

ATTACH DIGITAL SIGNATURE RECEIPT FROM: _____

TELEPHONE: _____ DATE: _____

YEAR: _____ MO: _____ DAY: _____

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT: _____

Monthly Operations Report: June 2021

Site: LEWES WWTP

FINAL EFFLUENT OUTFALL 001																					
DATE	DAY	Flow MGD	BOD			TSS			Enteroc. col/100ml	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	
1	Tue.	0.649	<2.4	<13		0.5	3		<1.0	1.5	8.23	3.5	19.05	0.1	1	2.7	15	0.8			
2	Wed.	0.624																			
3	Thu.	0.554																			
4	Fri.	0.984																			
5	Sat.	1.034																			
6	Sun.	0.792																			
7	Mon.	0.615																			
8	Tue.	0.643	<2.4	<13		0.5	3														
9	Wed.	0.589																			
10	Thu.	0.721																			
11	Fri.	0.950																			
12	Sat.	0.949																			
13	Sun.	0.932																			
14	Mon.	0.997																			
15	Tue.	1.025																			
16	Wed.	0.966	<2.4	<19		0.7	6														
17	Thu.	0.984																			
18	Fri.	0.984																			
19	Sat.	1.061																			
20	Sun.	1.043																			
21	Mon.	1.052																			
22	Tue.	1.000	<2.4	<20		<0.5	4														
23	Wed.	0.946																			
24	Thu.	1.043																			
25	Fri.	1.055																			
26	Sat.	1.215																			
27	Sun.	1.009																			
28	Mon.	1.072																			
29	Tue.	0.873	<2.4	<18		<1.0	<7														
30	Wed.	0.958																			
TOTAL		27.3190																			
AVERAGE		0.9106	<2.40	<16.54		<0.64	<4.50		2.0	1.52	8.23	3.52	19.05	0.11	0.60	2.68	14.51	0.84		4.55	
MAXIMUM		1.2150	<2.40	<20.00		<1.00	<7.30		35.80	1.52	8.23	3.52	19.05	0.11	0.60	2.68	14.51	0.84		4.55	
MINIMUM		0.5540	<2.40	<12.90		<0.50	2.70		<1.00	1.52	8.23	3.52	19.05	0.11	0.60	2.68	14.51	0.84		4.55	
Removal (%)			99.2			99.9															

INFLUENT						
DATE	DAY	Flow MGD	BOD		TSS	
			mg/L	lbs	mg/L	lbs
1	Tue.	0.611	315.0	1605	477.0	2431
2	Wed.	0.587				
3	Thu.	0.585				
4	Fri.	0.937				
5	Sat.	1.036				
6	Sun.	0.759				
7	Mon.	0.580				
8	Tue.	0.603				
9	Wed.	0.595				
10	Thu.	0.806				
11	Fri.	0.813				
12	Sat.	1.021				
13	Sun.	0.991				
14	Mon.	0.953				
15	Tue.	0.982				
16	Wed.	0.941				
17	Thu.	0.953				
18	Fri.	0.978				
19	Sat.	0.997				
20	Sun.	1.002				
21	Mon.	0.977				
22	Tue.	0.965				
23	Wed.	0.938				
24	Thu.	0.952				
25	Fri.	1.007				
26	Sat.	1.140				
27	Sun.	1.058				
28	Mon.	0.943				
29	Tue.	0.848				
30	Wed.	0.845				
TOTAL		26.2030				
AVERAGE		0.87	315	1,605	477	2,431
MAXIMUM		1.14	315	1,605	477	2,431
MINIMUM		0.58	315	1,605	477	2,431
Removal (%)						

LEWES BPW WWTP Biweekly InSight Report

Date: 7/14/2021

From: Erin Horocholyn - Suez Water Technologies & Solutions
 To: Darrin Gordon, Austin Calaman, 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

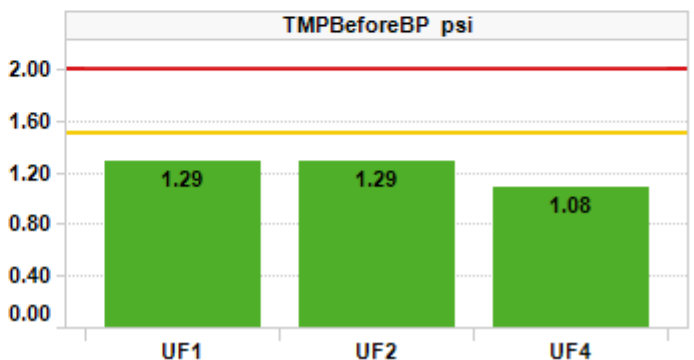
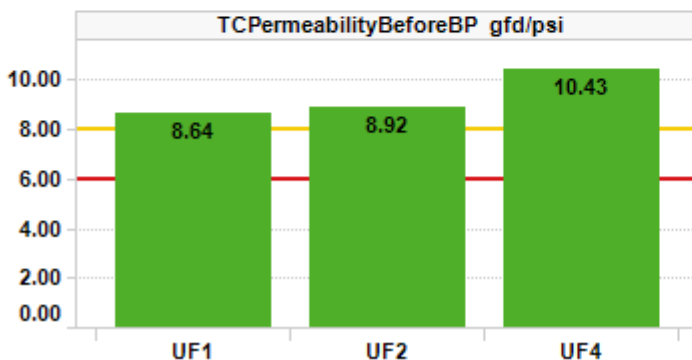
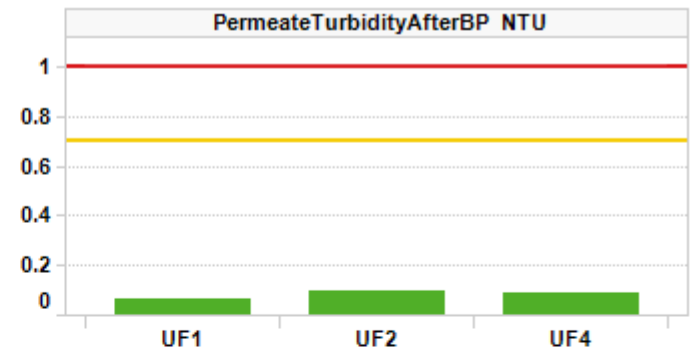
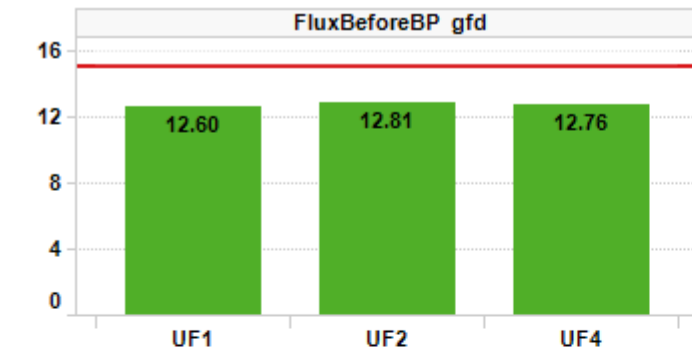
Cleaning Strategy

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

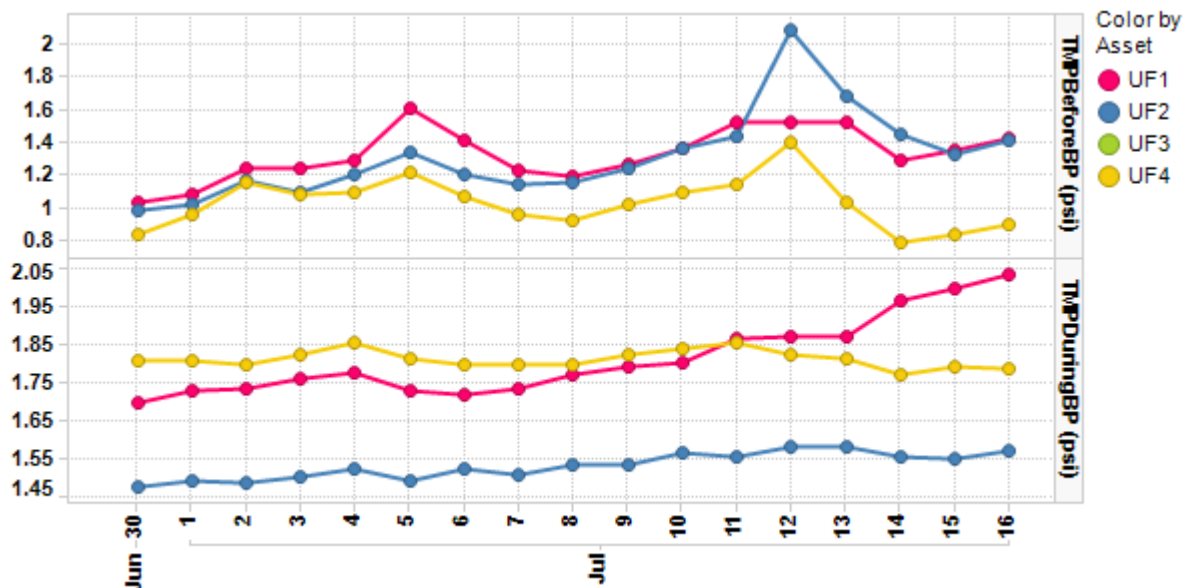
■ Action Required
■ Caution
■ No Limits
■ Normal



Plant Summary

All trains had good KPI levels for permeability, TMP, and turbidity. Trains did see a slight increase in TMPs even with stable and lower flux compared to the last report.

- UF3 has been OFF since June 3. UF1 was OFF from June 12 – 13. Daily permeate production averaged 0.99 MGD. Permeate temperature averaged 80°F (+3°F). All online trains are in Backpulse with constant LEAP Hi aeration
- Flux BBP averaged 12.6 – 12.8 gfd on UF1, UF2, and UF4, seeing a 6 – 10% decrease from last report
- TMP BBP averaged >1.0 psi on all trains. Averages ranged from 1.10 – 1.29 psi on UF1, UF2, and UF4. UF1 and UF2’s TMPs rose 0.1 - 0.2 psi compared to last report. Daily median averages are shown in the plot below for both TMP before backpulse and during backpulse. There is a rise in TMP DBP for UF1 and UF2 which may signal a small accumulation of pore fouling. UF2 had no hypo MCs in this reporting period, and both UF1 and UF2 may benefit from having 1 or 2 hypo MCs scheduled in the upcoming two weeks. Both primary and secondary RAS flows have fallen around the same time as the slightly rising TMPs, while dissolved oxygen has been somewhat low, so it could have a biological cause as well



- TC permeability BBP averages ranged 8.6 – 10.4 gfd/psi across trains, all >8 gfd/psi even during periods of high flux, which is good. TCP dropped in this report due to higher TMPs and lower flux
- Permeate turbidity ABP averages ranged from 0.07 – 0.10 NTU on all trains with mostly stable trends

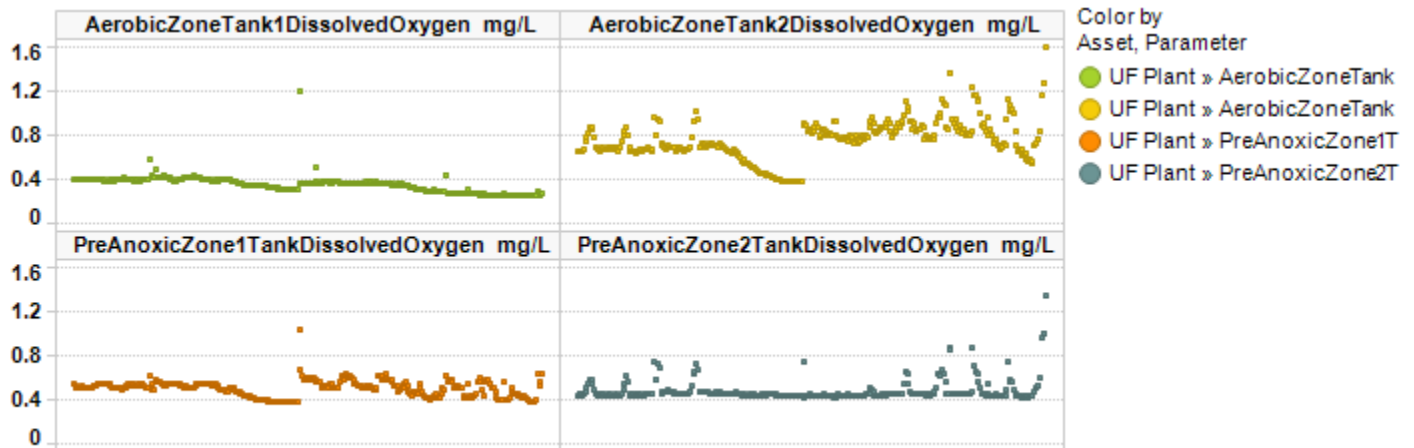
Table 1. Record of maintenance cleans (MCs) run in this two-week reporting period.

Train	UF1	UF2	UF3	UF4
# of Hypochlorite MCs	1	0	0	2
# of Citric Acid MCs	1	2	0	2

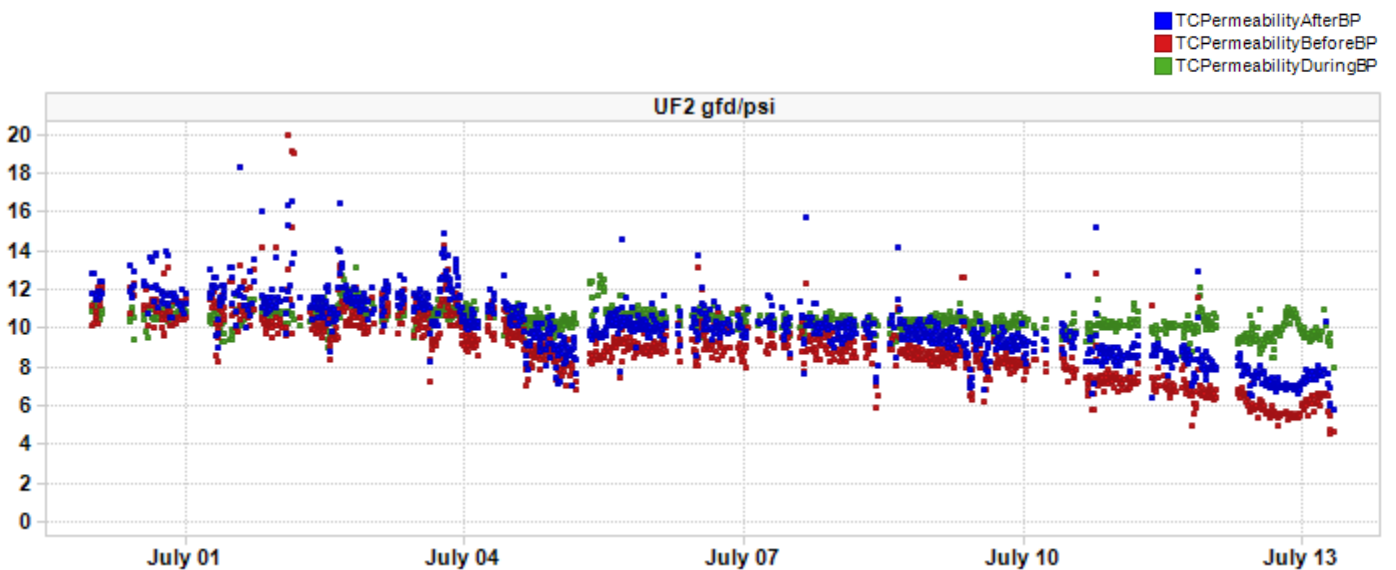
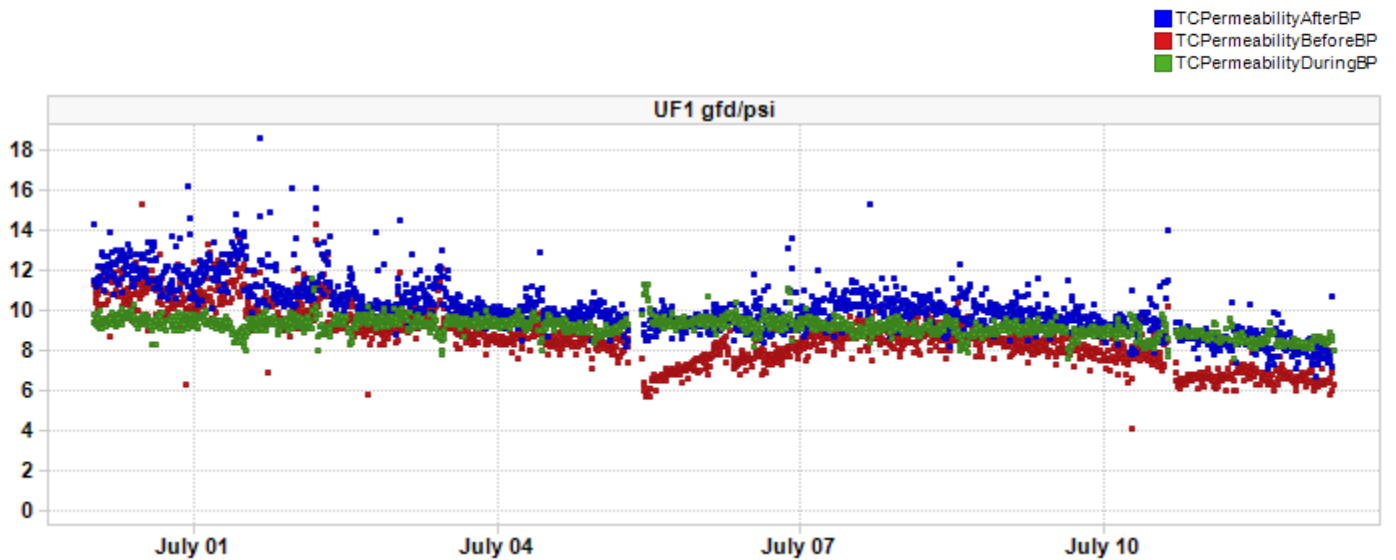
- Aerobic zone 1 dissolved oxygen averaged 0.34 ppm, while tank 2 averaged 0.76. Both averages are on the low side for ideal MLSS health, which should be between 1 – 2 ppm. Between July 13 – 16, Aerobic Tank 2’s DO did rise to 1.04 mg/L on average, though the pre-anoxic zone’s DOs have also risen from ~0.5 mg/L from June 30 – July 12, to 0.57 and 0.73 mg/L which is on the high side for feeding anoxic zones (ideally at or under 0.5 mg/L for denitrification)



Bioreactor Dissolved Oxygen

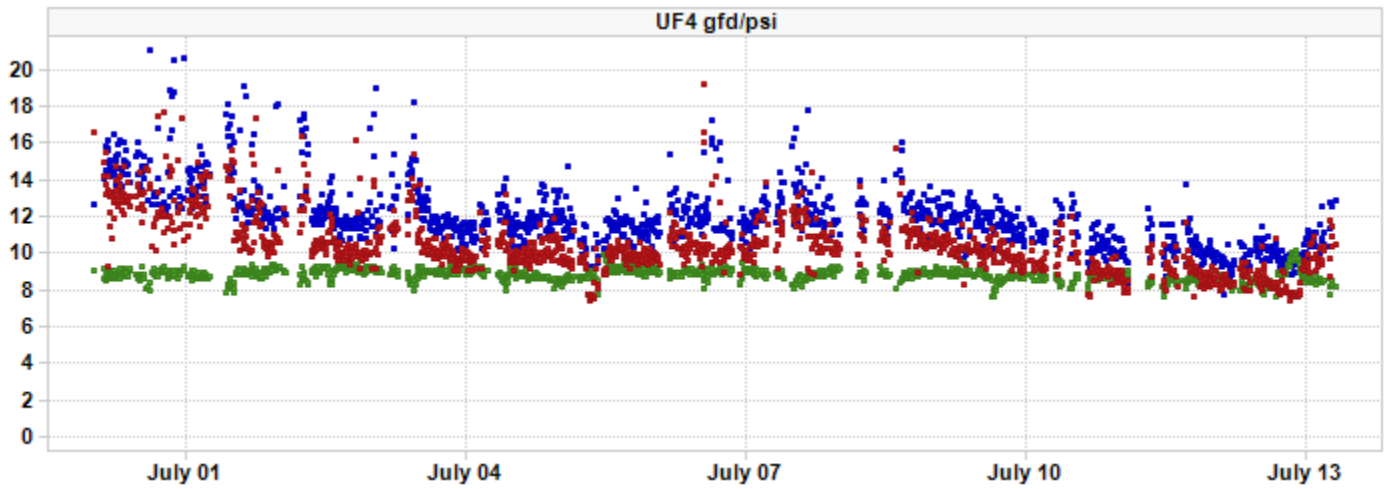


TC Permeability Trends By Train

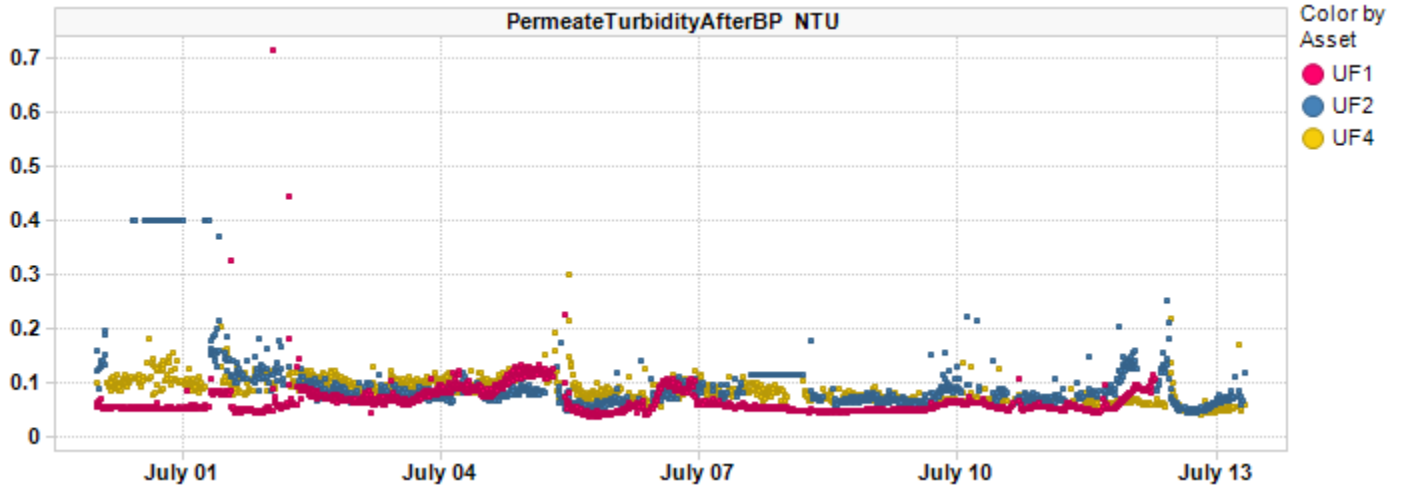




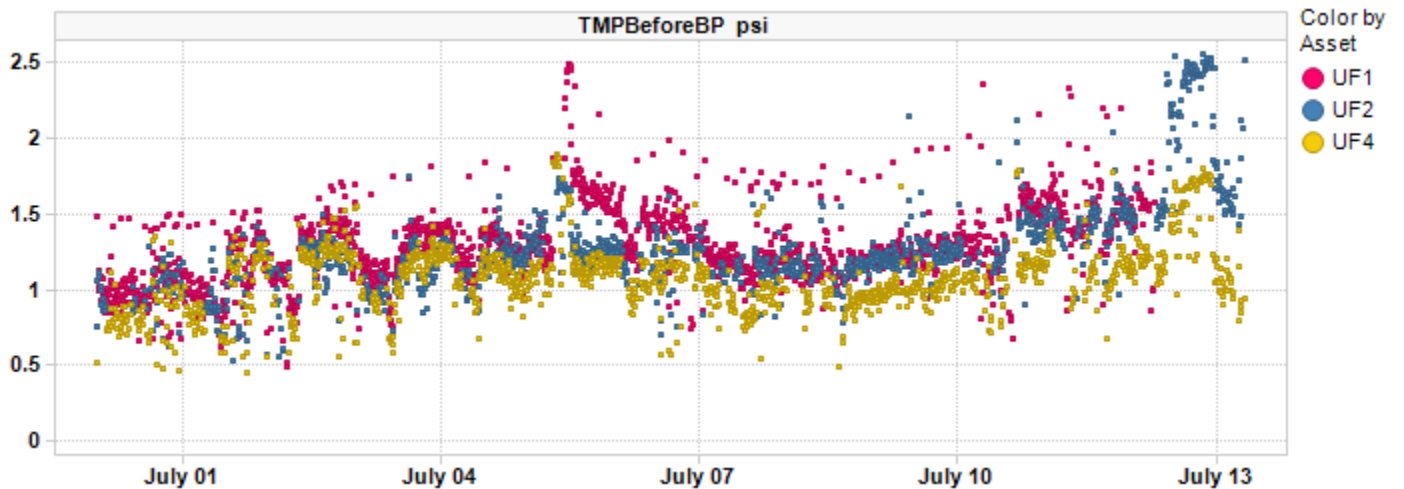
■ TCPermeabilityAfterBP
■ TCPermeabilityBeforeBP
■ TCPermeabilityDuringBP



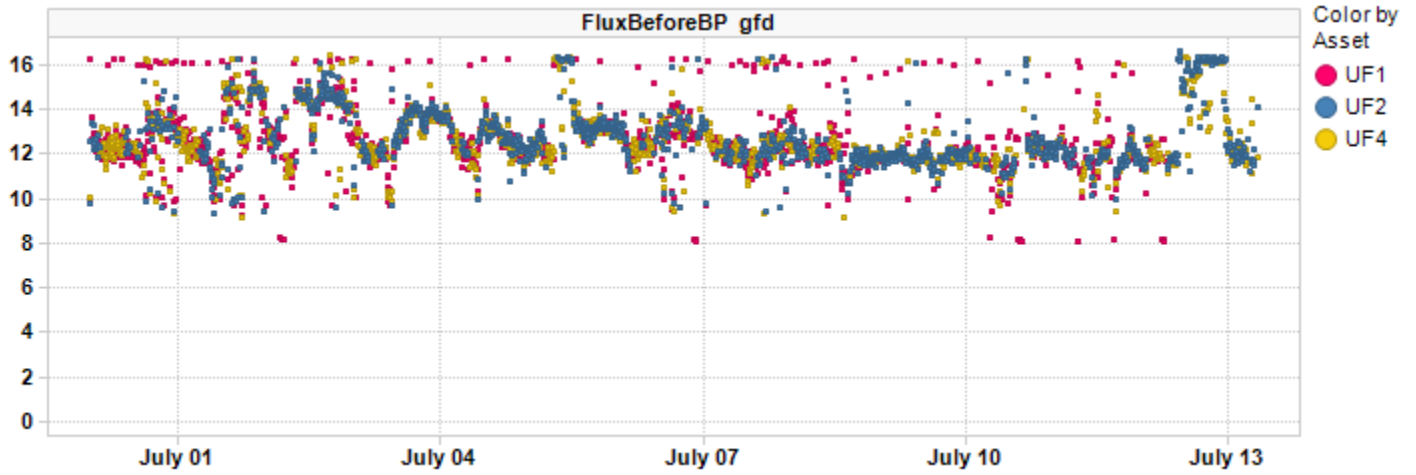
Permeate Turbidity Trend



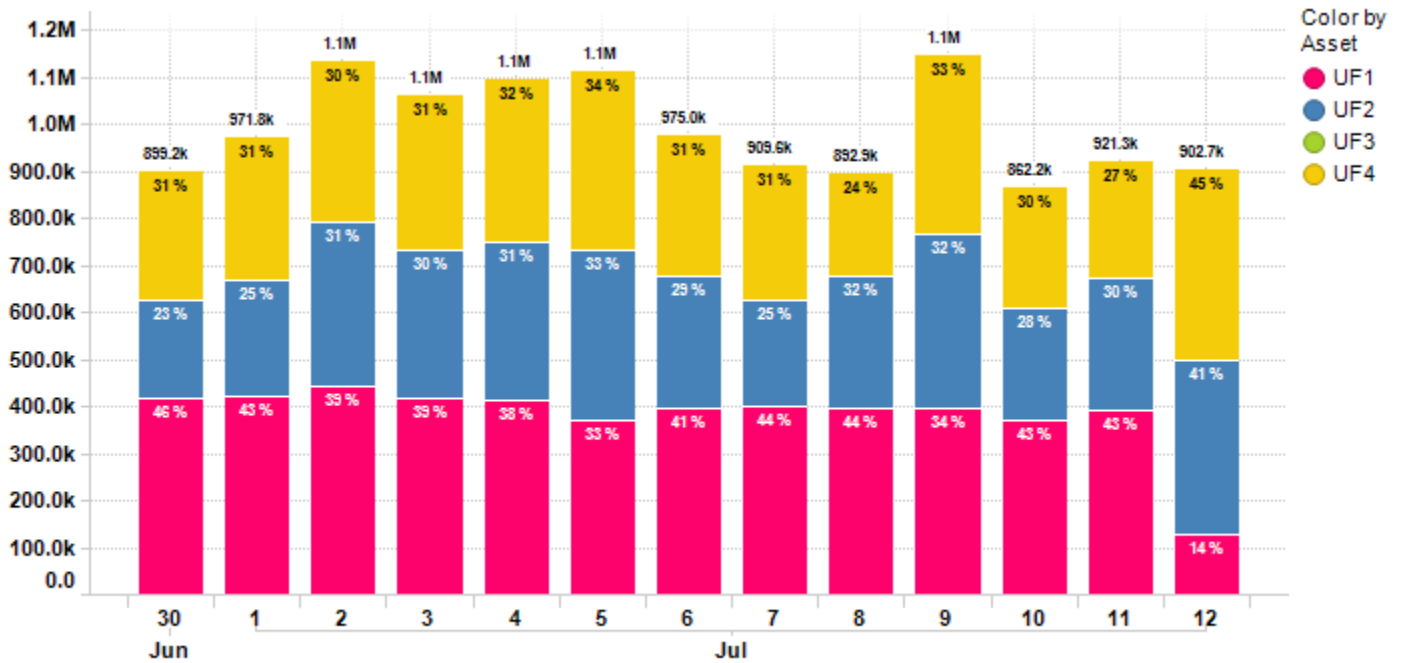
Before BPTMP Trend



Before BP Flux Trend



Daily Permeate Flow



Average Daily permeate flow from 6/30/2021 to 7/13/2021 is 990.6k gal with a maximum daily flow of 1.1M gal.



Asset Summary

KPI Parameters	Value/Change	UF1	UF2	UF3	UF4
FluxBeforeBP gfd	Value	12.60	12.81		12.76
	Change	-5.83 %	-11.38 %		-9.86 %
FluxDuringBP gfd	Value	18.75	18.44		18.66
	Change	-0.06 %	-0.41 %		-0.08 %
PermeateTurbidityAfterBP NTU	Value	0.07	0.10		0.09
	Change	30.32 %	-151.59 %		-65.69 %
TCPermeabilityBeforeBP gfd/psi	Value	8.64	8.92		10.43
	Change	-27.22 %	-25.12 %		-15.49 %
TMPBeforeBP psi	Value	1.29	1.29		1.08
	Change	14.37 %	9.48 %		-1.55 %
TotalPermeateFlowDaily gal	Value	381.46k	297.46k	0.00	311.68k
	Change	12.44 %	-18.93 %	0.00 %	-13.42 %

Plant Summary

KPI Parameters	Value/Change	UF Plant
PermeateTemperature °F	Value	79.81
	Change	3.76 %
TotalPermeateFlowDaily gal	Value	1.05M
	Change	-5.60 %

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: 7/28/2021

From: Erin Horocholyn - Suez Water Technologies & Solutions
 To: Darrin Gordon, Austin Calaman, 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

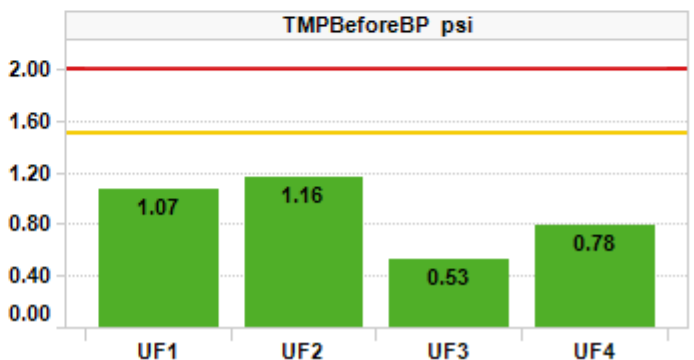
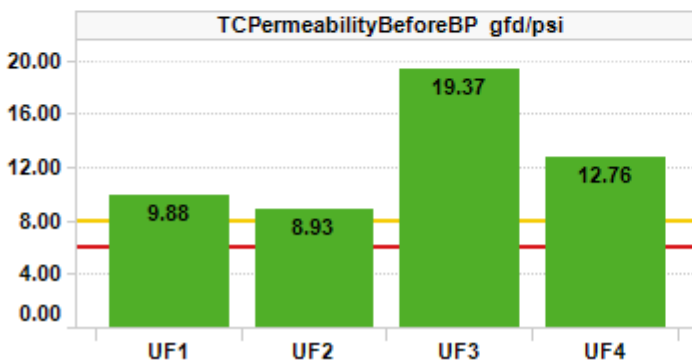
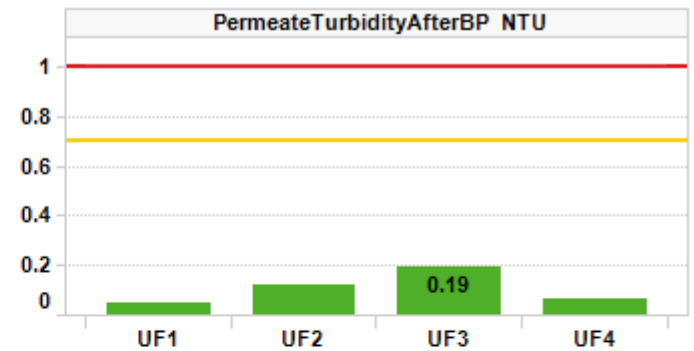
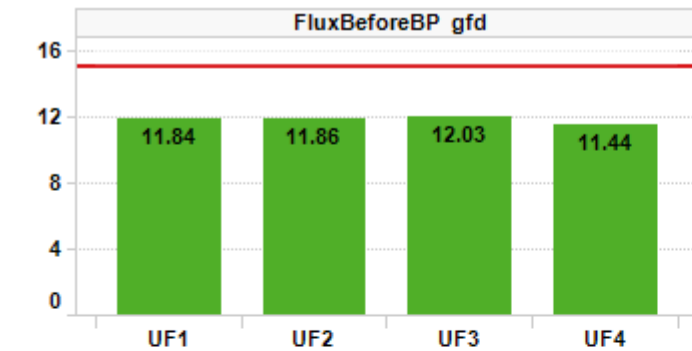
Cleaning Strategy

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. Trains saw a decrease in TMPs in this report. UF3 is now back online and its RC restored 6.5 gfd/psi of permeability, leaving it with excellent permeability averaging 19 gfd/psi.

- Daily permeate production averaged 0.85 MGD. Permeate temperature averaged 82°F (+2°F). All online trains are in Backpulse with constant LEAP Hi aeration
- Flux BBP averaged 11.4 – 12.0 gfd on UF1, UF2, and UF4, seeing a 6 – 12% decrease from last report
- TMP BBP averaged >1.0 psi on UF1 and UF2, and <1.0 psi on UF3 and UF4. Averages for UF1 and UF2 ranged 1.1 – 1.2 psi, and 0.53 – 0.78 psi on UF3 and UF4. All trains saw an improvement in TMPs
- TC permeability BBP averages ranged 8.9 – 12.8 gfd/psi on trains UF1,2,4, and 19.4 gfd/psi on UF3. All trains are >8 gfd/psi which is excellent
- Permeate turbidity ABP averages ranged from 0.05 – 0.19 NTU on all trains with higher values seen on UF2 near the second half of this reporting period

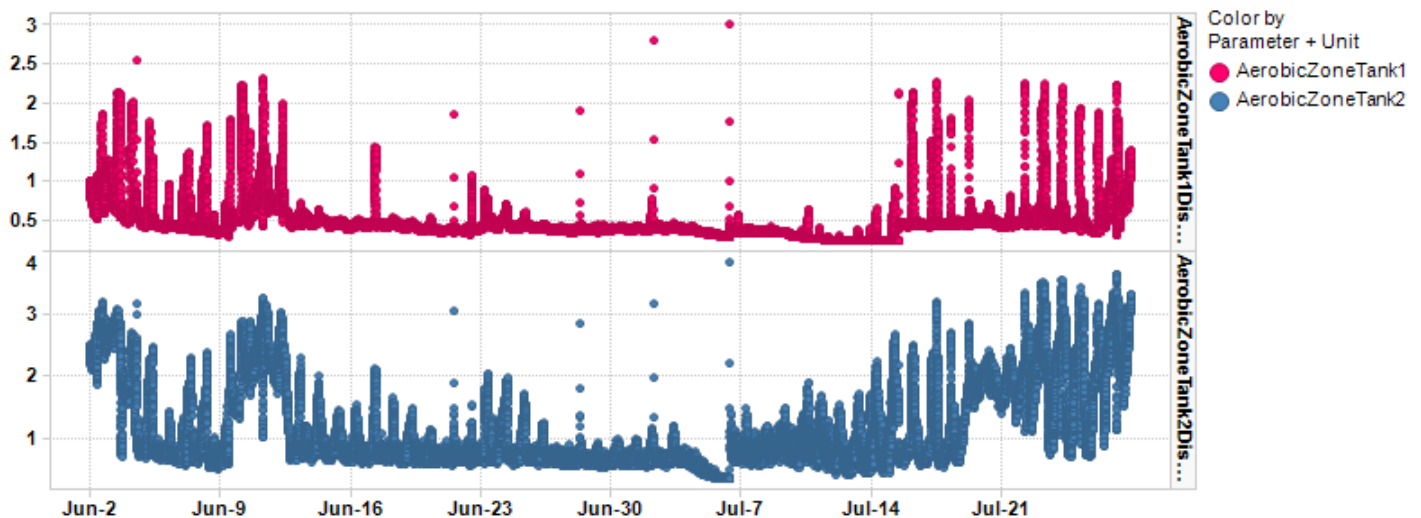
Table 1. Record of maintenance cleans (MCs) run in this two-week reporting period.

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

Table 2. Results of recovery cleans (RCs). TCP = temperature corrected (TC) permeability before backpulse (gfd/psi).

Train	Date	Pre-clean TCP	Post-Clean TCP	Restored TCP
UF3	July 21	12.83 (June 3)	19.37	+ 6.54

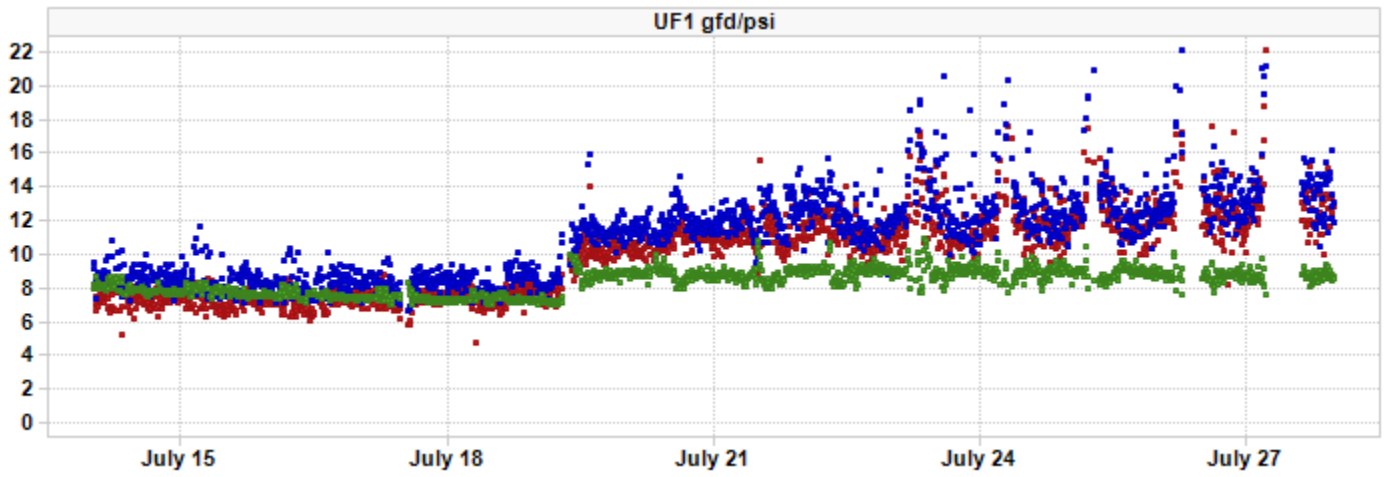
- Aerobic zone 1 dissolved oxygen averaged 0.49 ppm, while tank 2 averaged 1.20 overall. From July 14 – 26, tank 1 averaged 0.55 mg/L and tank 2 averaged 1.72 mg/L. Tank 1 averages are on the low side for ideal MLSS health, which should be between 1 – 2 ppm. The pre-anoxic zone’s DO averages were 0.65 mg/L in tank 1, and 0.94 mg/L in tank 2 which is on the high side for feeding anoxic zones (ideally at or under 0.5 mg/L for denitrification)



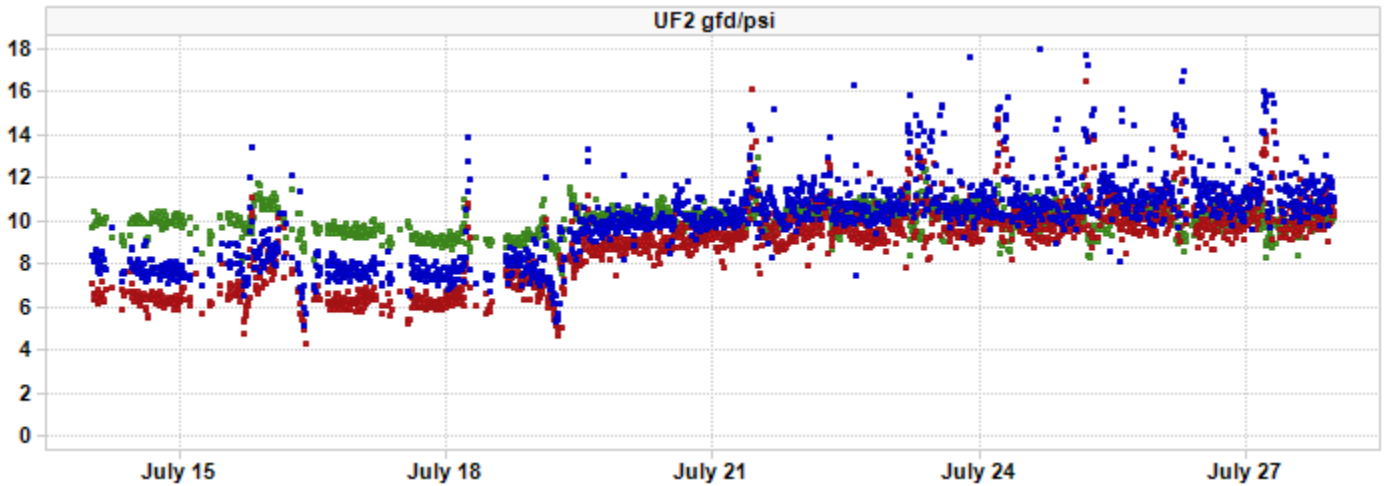


TC Permeability Trends By Train

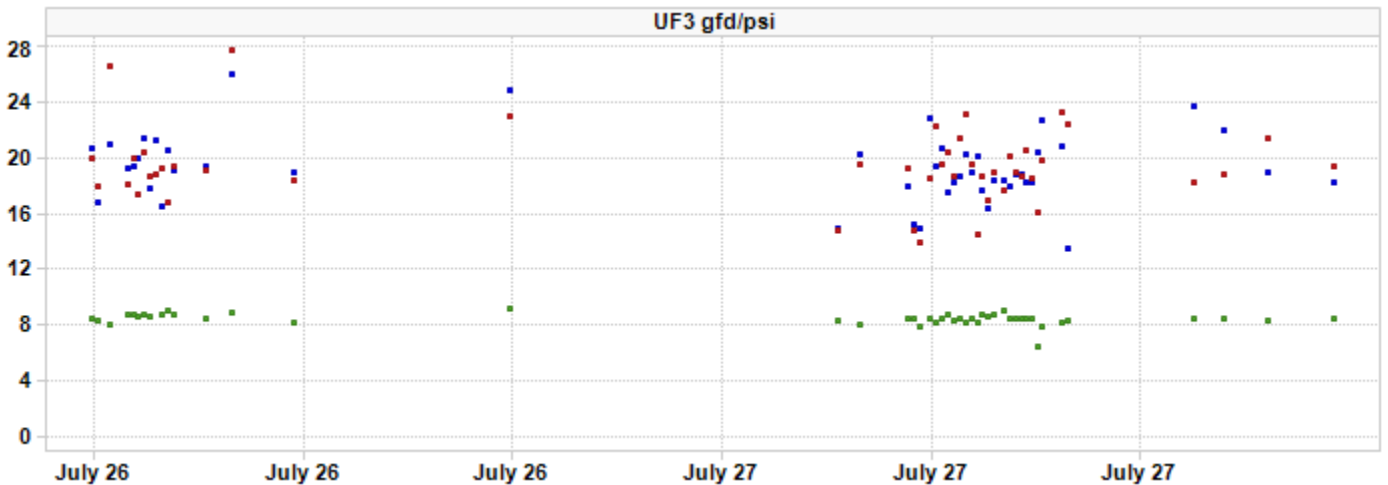
- TCPermeabilityAfterBP
- TCPermeabilityBeforeBP
- TCPermeabilityDuringBP



- TCPermeabilityAfterBP
- TCPermeabilityBeforeBP
- TCPermeabilityDuringBP

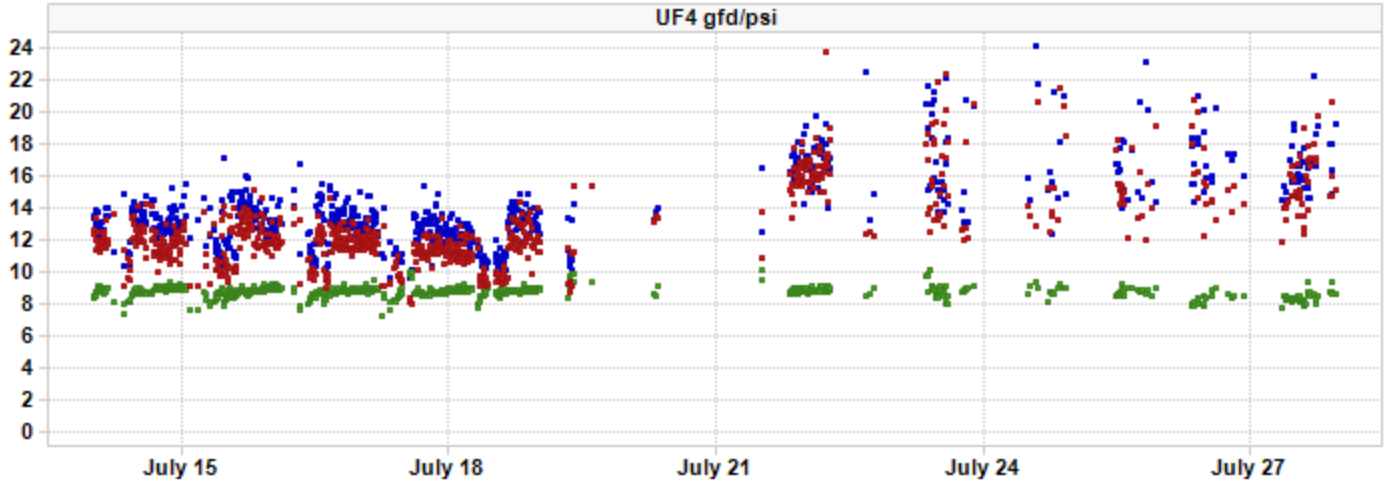


- TCPermeabilityAfterBP
- TCPermeabilityBeforeBP
- TCPermeabilityDuringBP

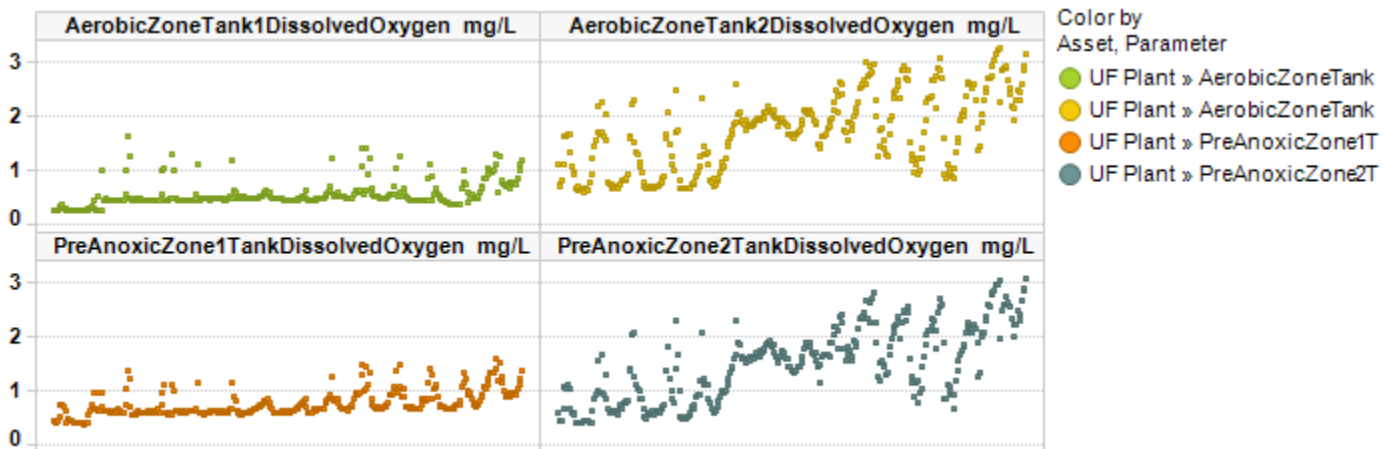




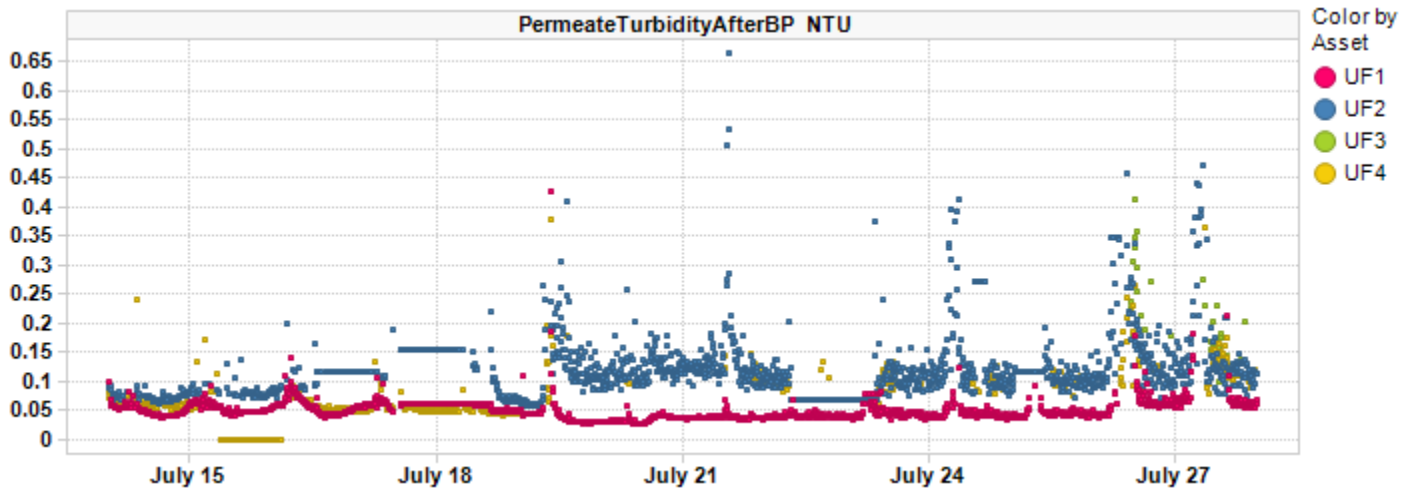
■ TCPermeabilityAfterBP
■ TCPermeabilityBeforeBP
■ TCPermeabilityDuringBP



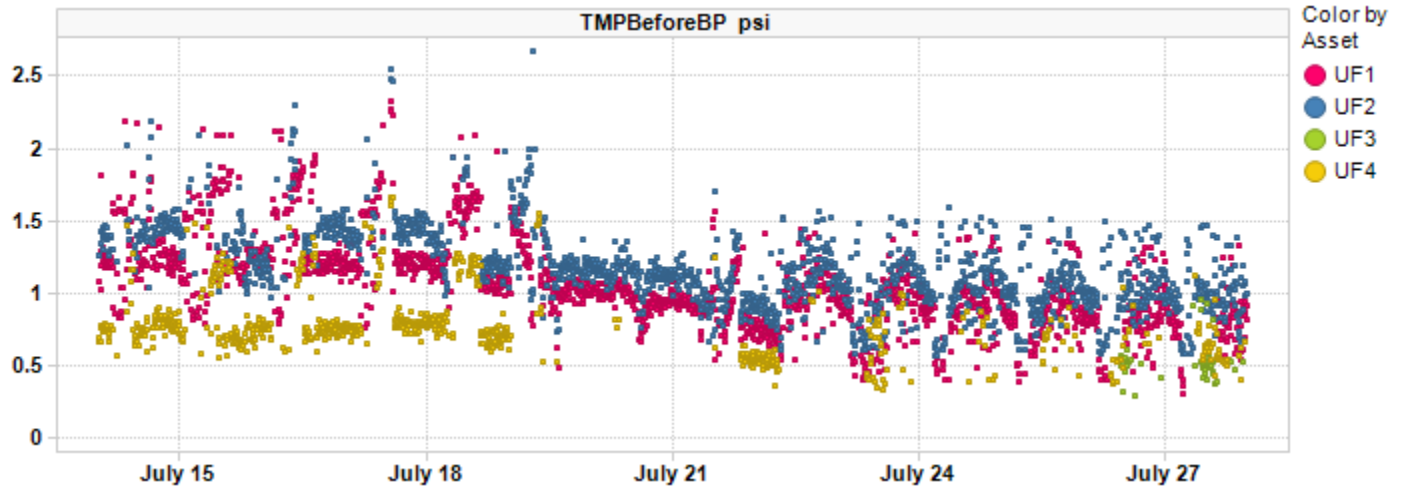
Bioreactor Dissolved Oxygen



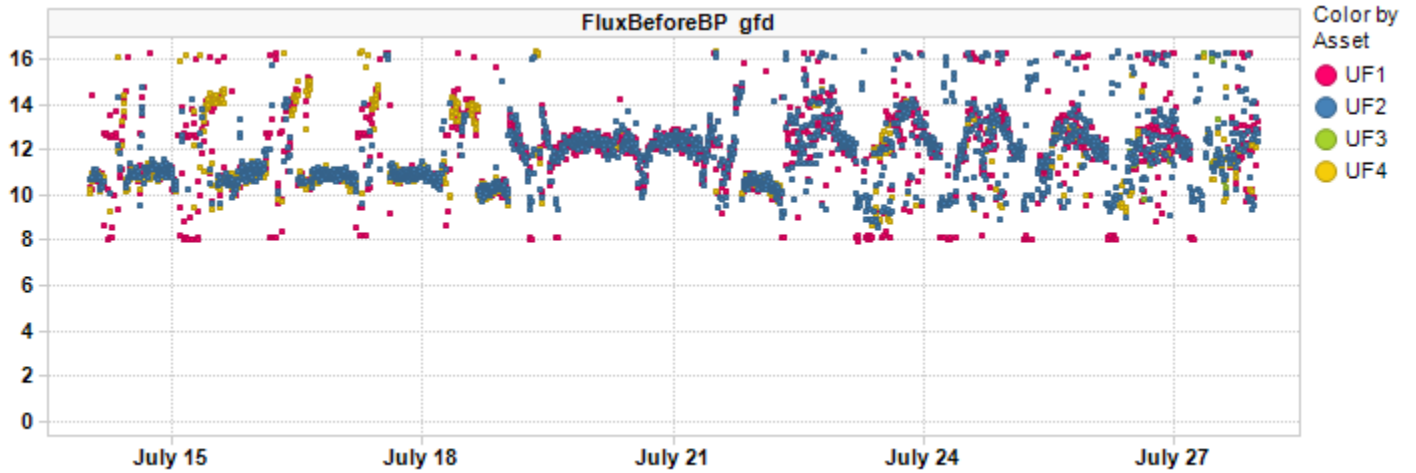
Permeate Turbidity Trend



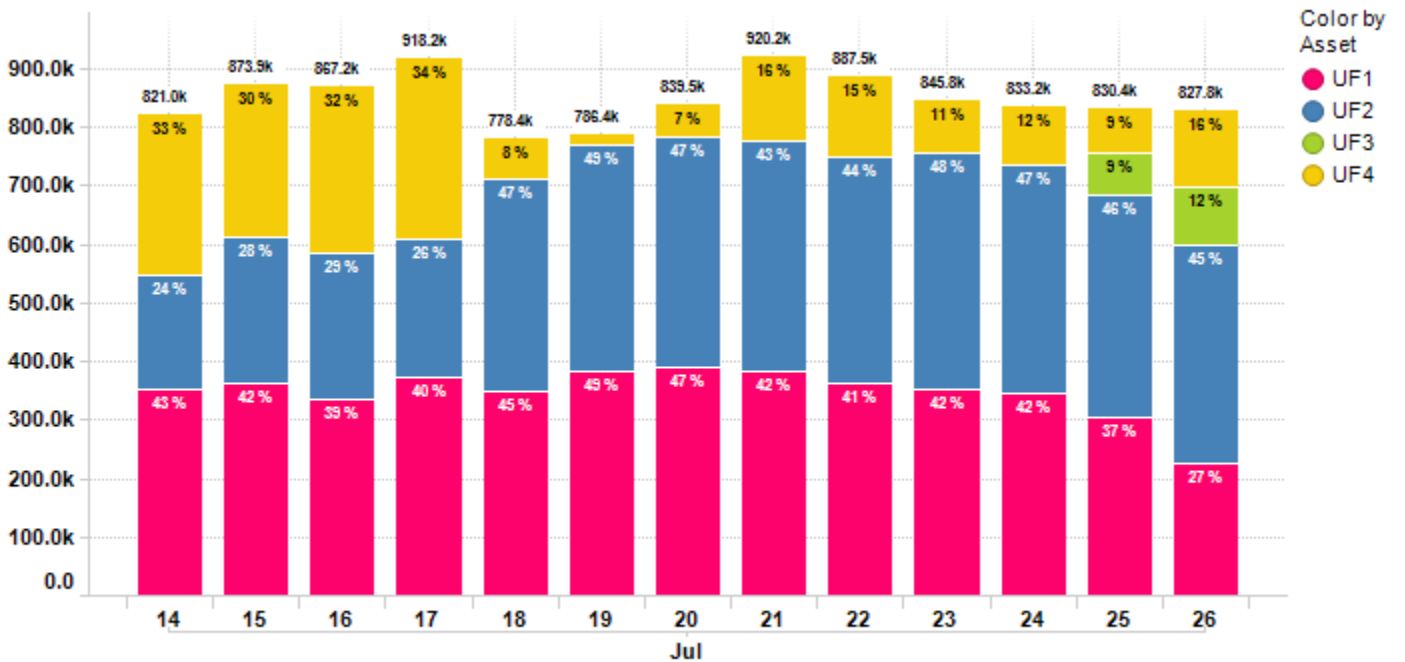
Before BPTMP Trend



Before BP Flux Trend



Daily Permeate Flow



Average Daily permeate flow from 7/14/2021 to 7/27/2021 is 848.4k gal with a maximum daily flow of 920.2k gal.



Asset Summary

KPI Parameters	Value/Change	UF1	UF2	UF3	UF4
FluxBeforeBP gfd	Value	11.84	11.86	12.03	11.44
	Change	-6.38 %	-7.78 %		-11.52 %
FluxDuringBP gfd	Value	18.72	18.45	18.48	18.69
	Change	-0.15 %	0.10 %		0.15 %
PermeateTurbidityAfterBP NTU	Value	0.05	0.12	0.19	0.07
	Change	-31.81 %	17.00 %		-30.68 %
TCPermeabilityBeforeBP gfd/psi	Value	9.88	8.93	19.37	12.76
	Change	13.30 %	1.09 %		18.24 %
TMPBeforeBP psi	Value	1.07	1.16	0.53	0.78
	Change	-21.71 %	-12.00 %		-37.50 %
TotalPermeateFlowDaily gal	Value	347.79k	338.62k	13.09k	148.92k
	Change	-11.16 %	14.18 %	100.00 %	-102.53 %

Plant Summary

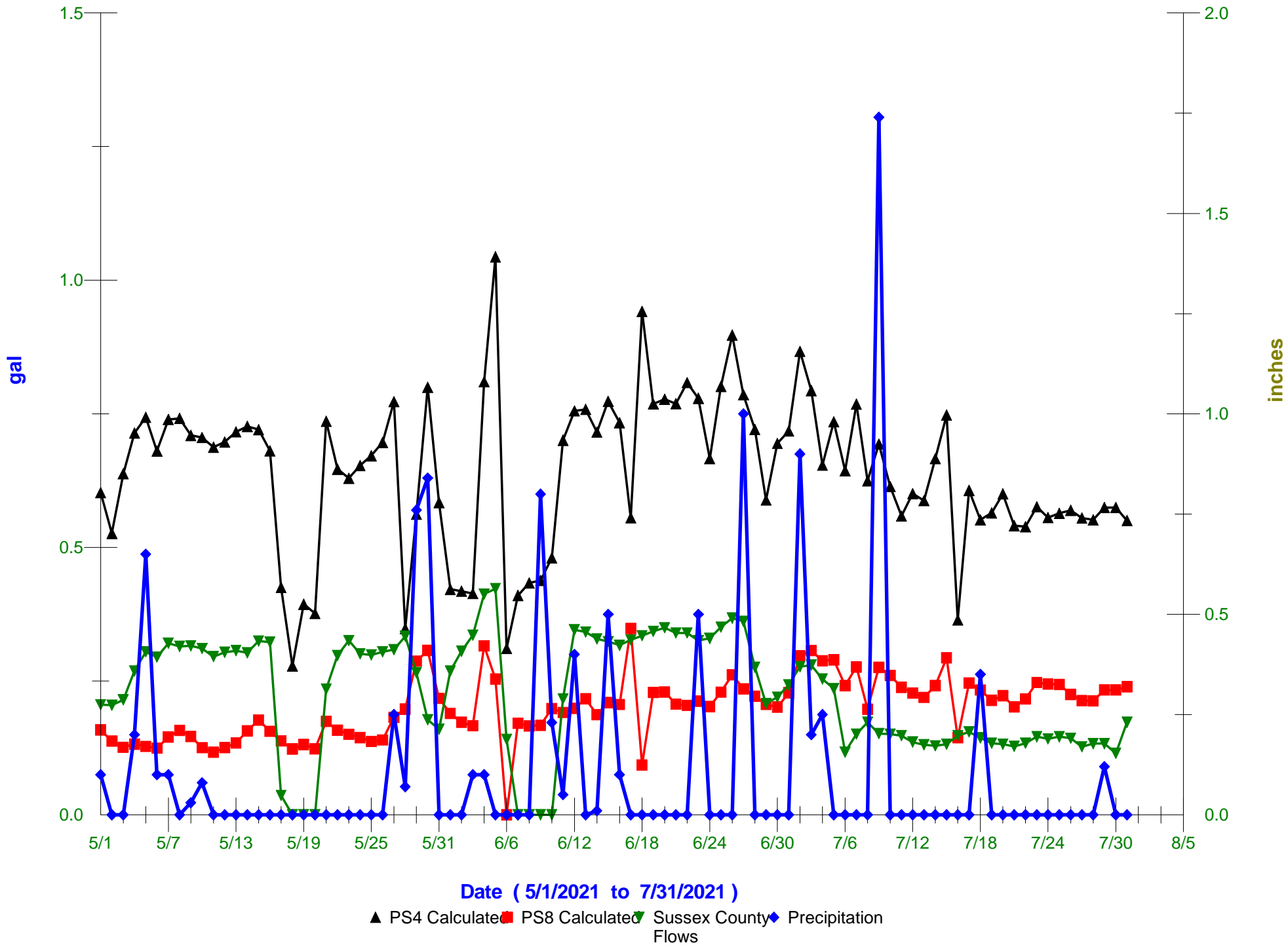
KPI Parameters	Value/Change	UF Plant
PermeateTemperature °F	Value	81.78
	Change	2.27 %
TotalPermeateFlowDaily gal	Value	918.75k
	Change	-13.15 %

Contract Expiry Date : 08/11/2021

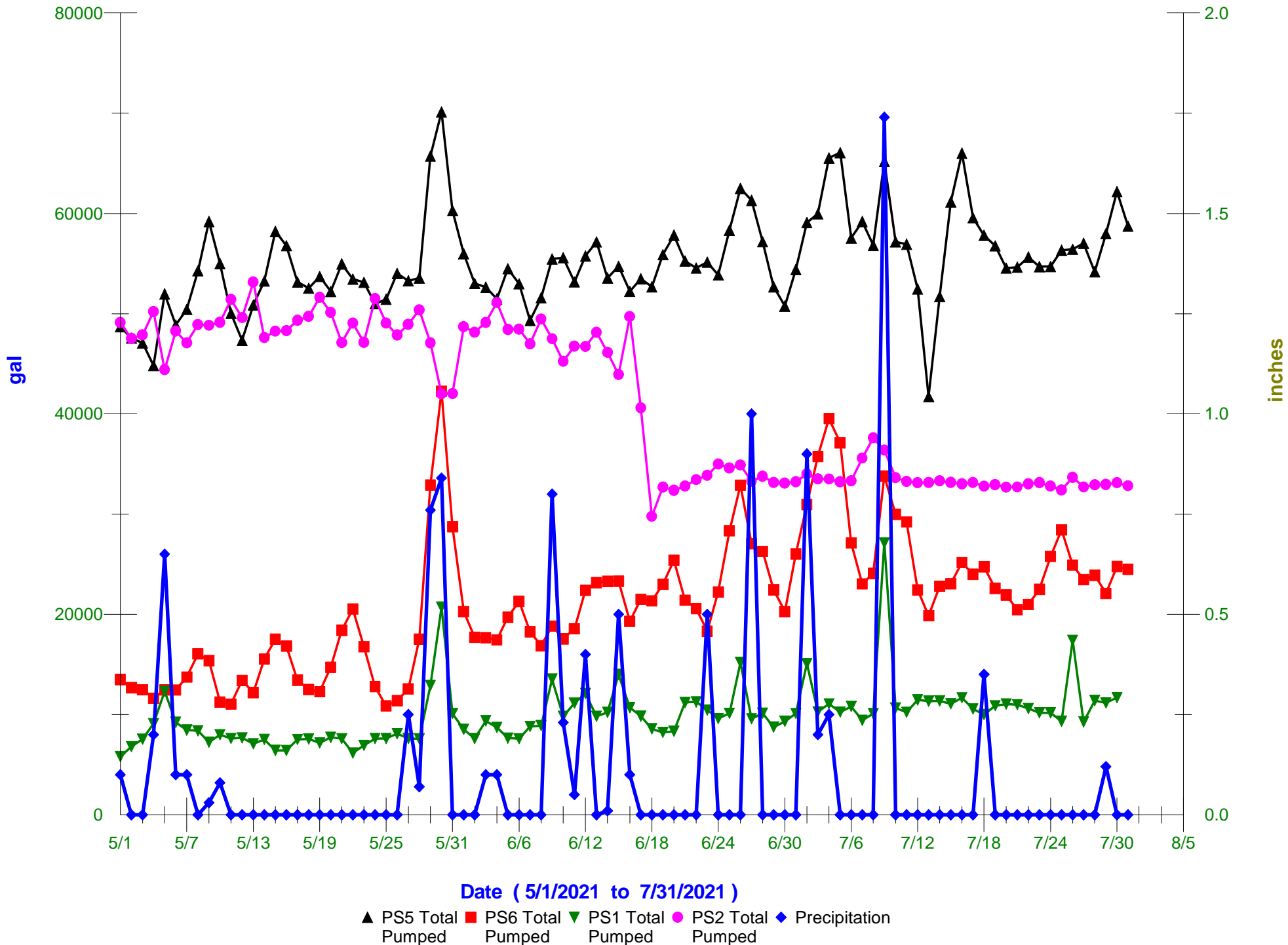
For InSight technical assistance please email insight.src@suez.com or please call technical support at 1 866 271 5425 or 905 469 7723 and follow the prompts, if you require after hours assistance please contact the 24/7 Emergency number provided in your plant documentation. This email is a summary of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

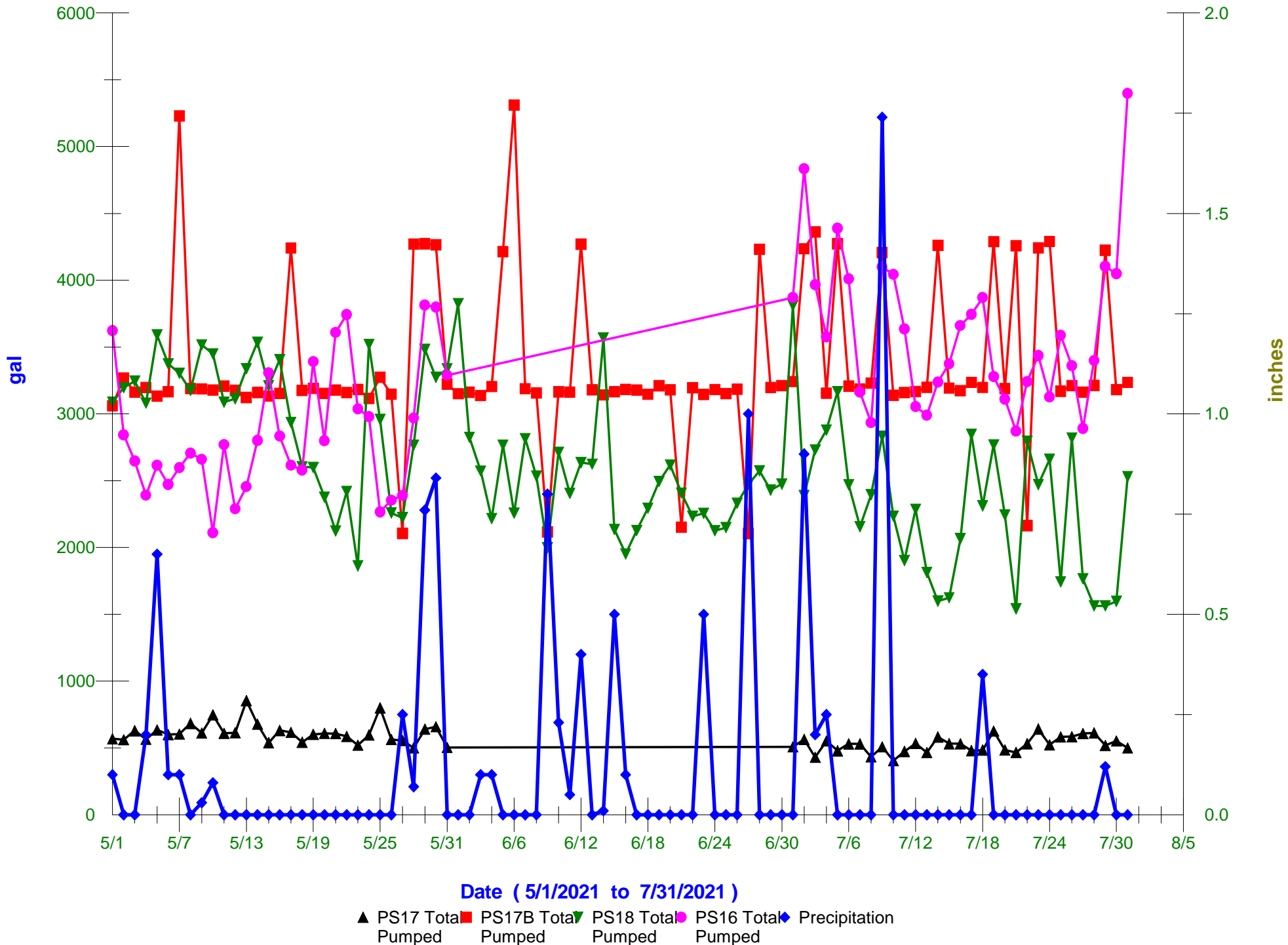
Data Over Time



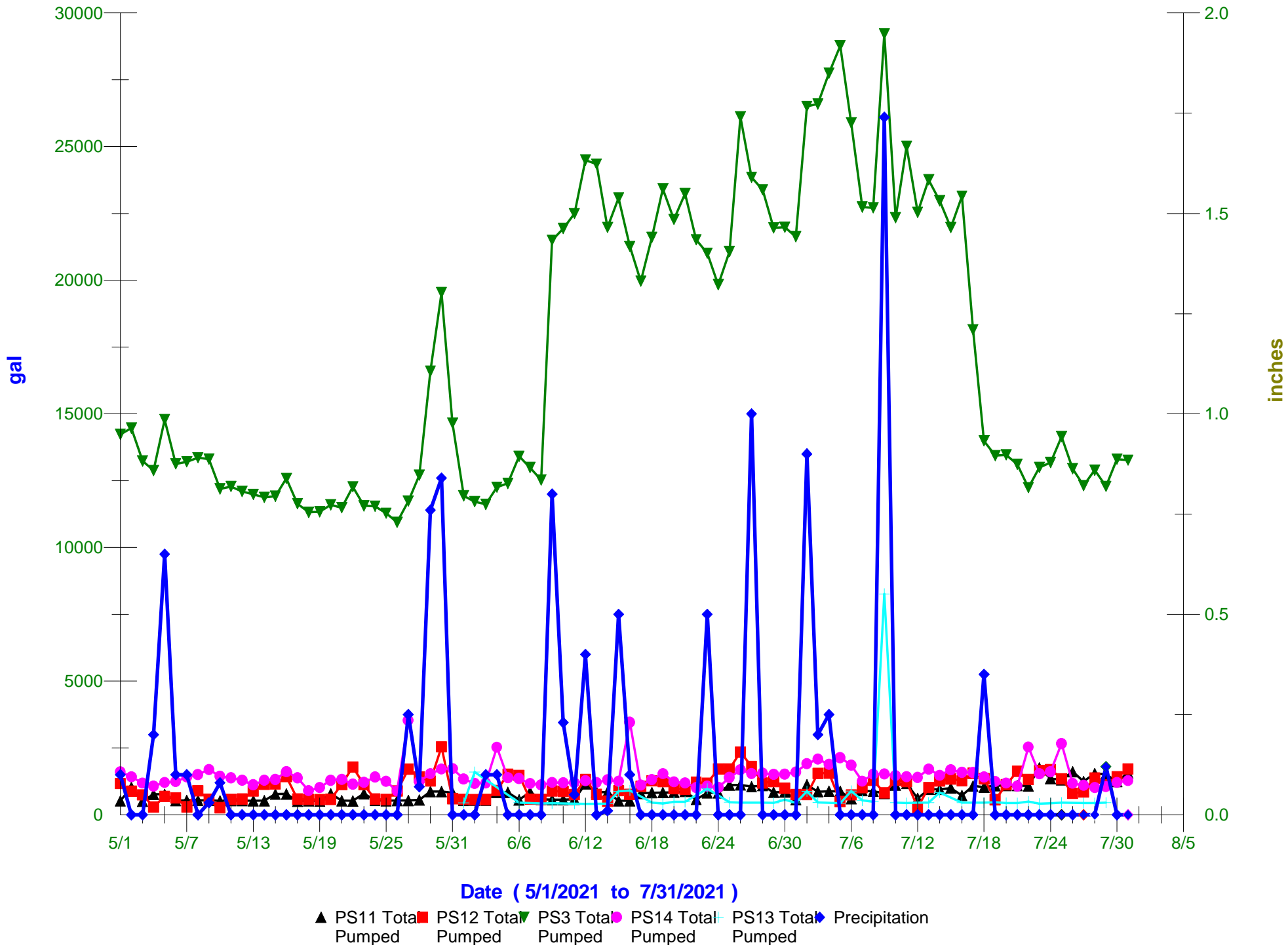
Data Over Time



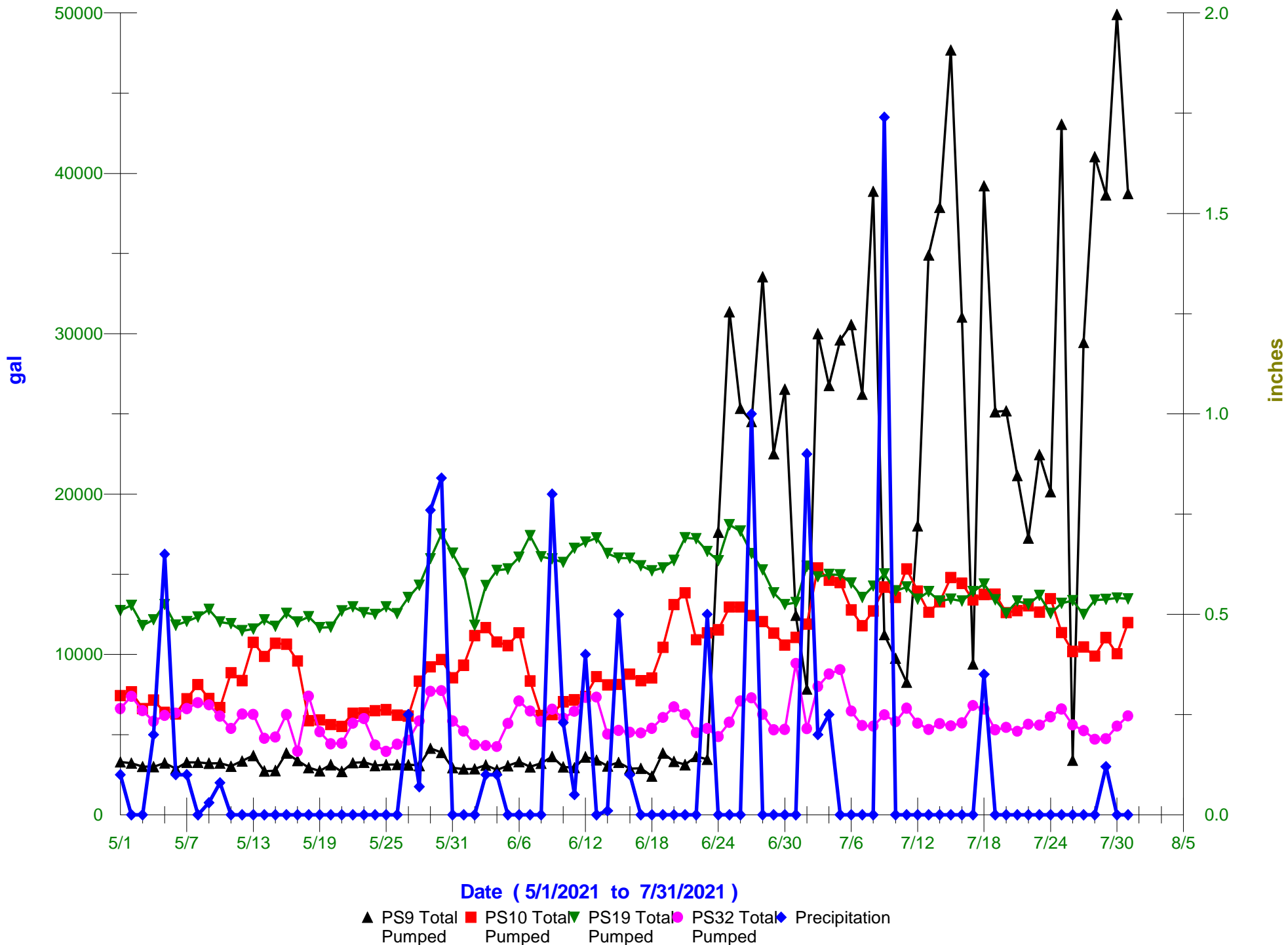
Data Over Time



Data Over Time



Data Over Time



Data Over Time

