

PUMP STATION		196	
Apr-21		PS 196	
		METER	24 HOUR
		READING	FLOW
THUR	1	42887980	0.130920
FRI	2	43018900	0.130990
SAT	3	43149890	0.135260
SUN	4	43285150	0.126970
MON	5	43412120	0.111420
TUE	6	43523540	0.113250
WED	7	43636790	0.164560
THU	8	43801350	0.239170
FRI	9	44040520	0.243380
SAT	10	44283900	0.219870
SUN	11	44503770	0.225970
MON	12	44729740	0.230260
TUE	13	44960000	0.206510
WED	14	45166510	0.207890
THU	15	45374400	0.210680
FRI	16	45585080	0.216060
SAT	17	45801140	0.213630
SUN	18	46014770	0.238820
MON	19	46253590	0.242610
TUE	20	46496200	0.229270
WED	21	46725470	0.237090
THU	22	46962560	0.245290
FRI	23	47207850	0.235100
SAT	24	47442950	0.245550
SUN	25	47688500	0.228040
MON	26	47916540	0.219180
TUE	27	48135720	0.217220
WED	28	48352940	0.210280
THU	29	48563220	0.221720
FRI	30	48784940	0.250740
		49035680	
TOTAL			6.147700
COUNT			30
AVERAGE			0.204923
MINIMUM			0.111420
MAXIMUM			0.250740



LEWES BPW WWTP Biweekly InSight Report

Date: 4/21/2021

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

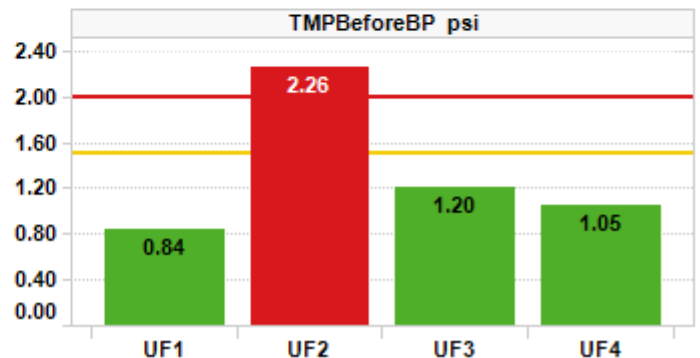
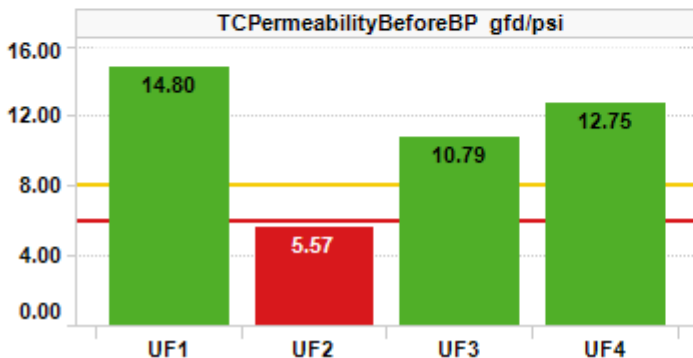
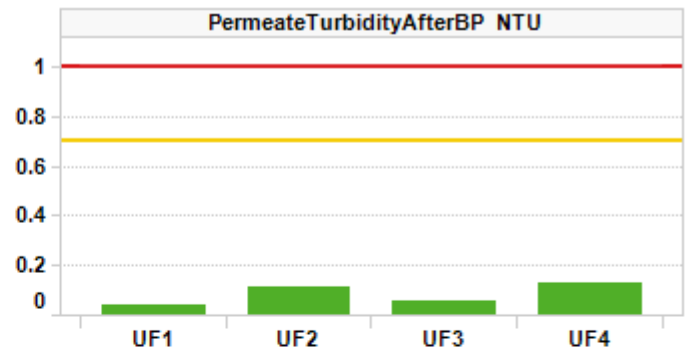
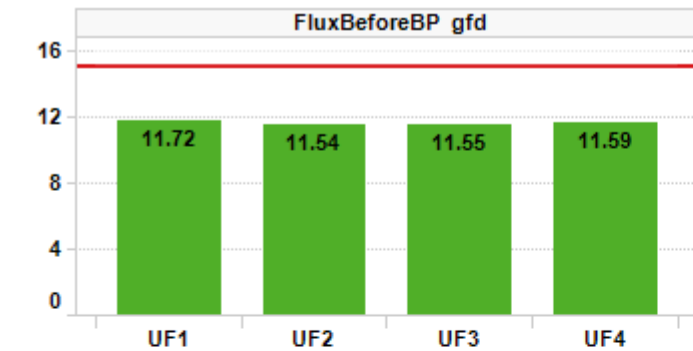
Cleaning Strategy

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

Overall, trains operated well with TMPs ranging from good to excellent, and good permeabilities. UF2 retains higher TMPs and lower permeability with in-cycle fouling. No trains hit TMP control in this report. UF1 came back online April 20th and has excellent KPIs after the thorough cleaning of the modules by the team at site.

Solids accumulating in the membranes that need extensive time spent manually cleaning out the debris is from aeration dead spots not moving solids away from all membrane fibers evenly across modules and cassettes. The aeration channel is getting plugged with solids contributing to the uneven aeration. There is also some soft linty material that comes through in the feed that gets stuck in the screens and membranes. Laying modules down horizontally on top of a 4'x4' frame while cleaning can increase the speed of cleaning, as when vertical the fiber tension interferes with the ability to remove debris.

- Daily permeate production averaged 0.9 MGD. Permeate temperature averaged 64°F, up from 61°F. Flux BBP averaged 11.6 gfd. Train UF1 came back online April 20 and had been offline since March 8 for manual cleaning of debris and solids. All trains are in Backpulse mode
- TMP BBP averaged 0.83, 2.26, 1.20, and 1.05 psi on UF1, UF2, UF3, and UF4. Excellent TMP is close to or less than 1.0 psi like UF1 and UF4
- TC permeability BBP was good on UF1, UF3, and UF4, averaging 14.80, 10.79 and 12.75 gfd/psi. UF2 averaged 5.57 gfd/psi due to higher TMPs
- Permeate turbidity ABP trends decreased slightly, averaging 0.04, 0.12, 0.06, and 0.13 NTU on UF1, UF2, UF3, and UF4
- Cleans in this reporting period:
 - UF1 had 1 acid MC
 - UF2 had 2 hypo and 2 acid MCs
 - UF3 had 4 hypo MCs
 - UF4 had 2 hypo and 2 acid MCs

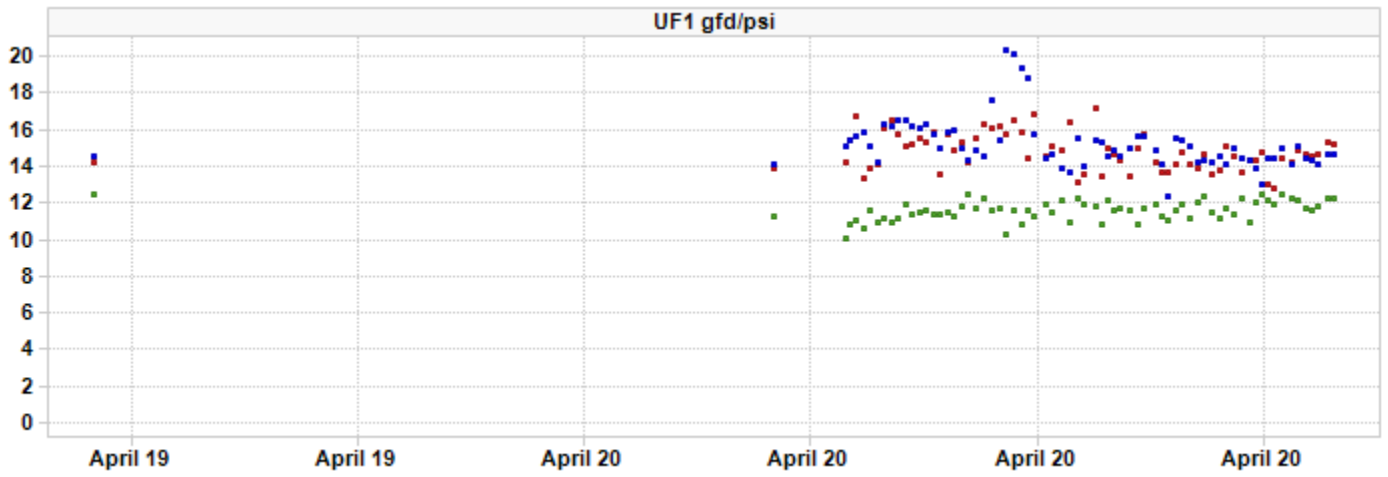
Acronyms:

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

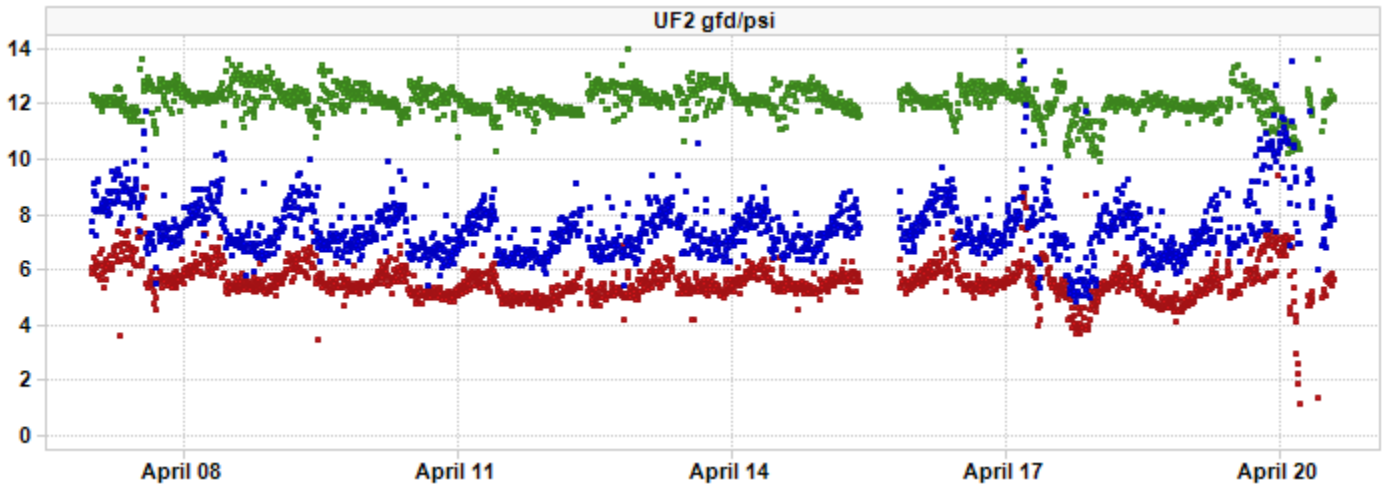


TC Permeability Trends By Train

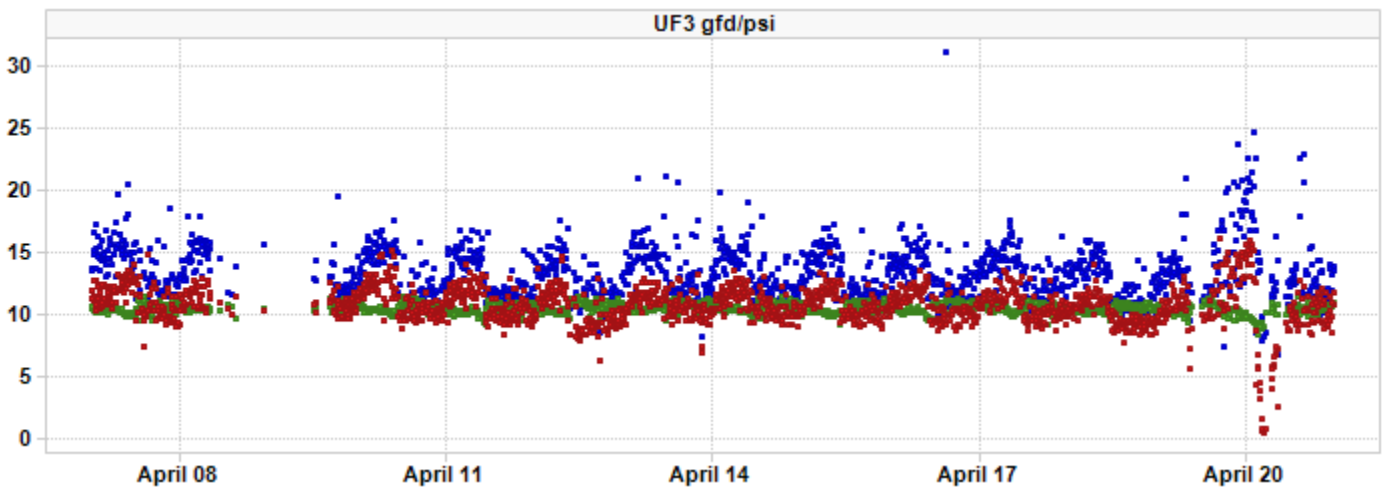
■ TCPermeabilityAfterBP
■ TCPermeabilityBeforeBP
■ TCPermeabilityDuringBP

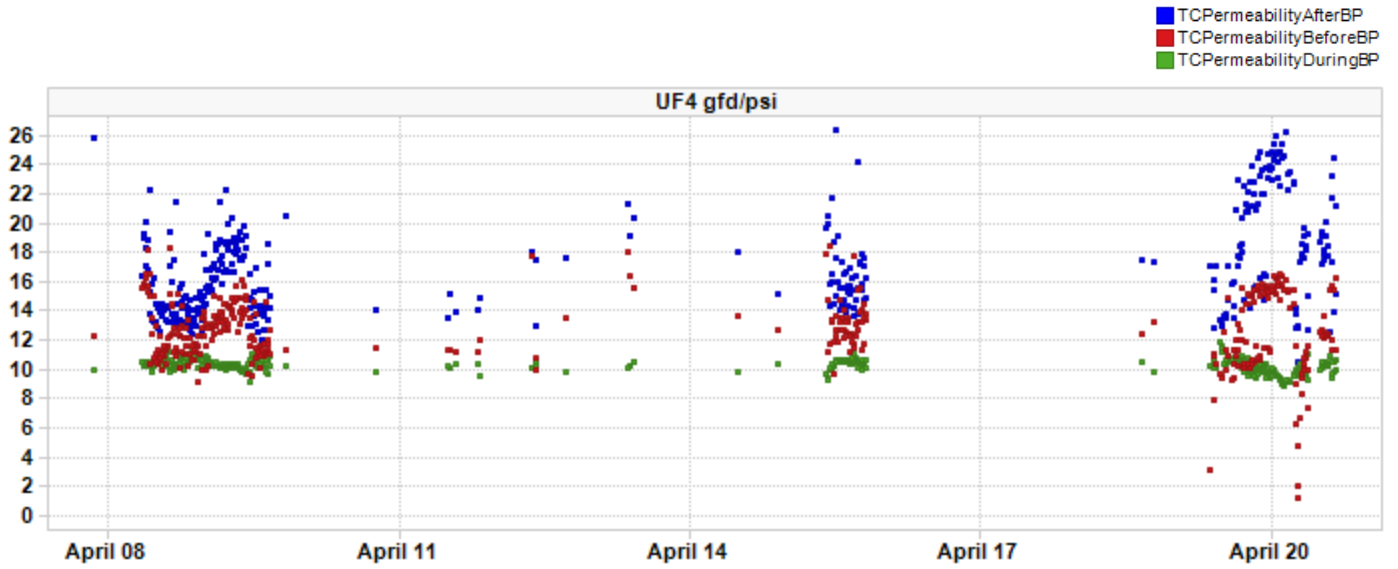


■ TCPermeabilityAfterBP
■ TCPermeabilityBeforeBP
■ TCPermeabilityDuringBP

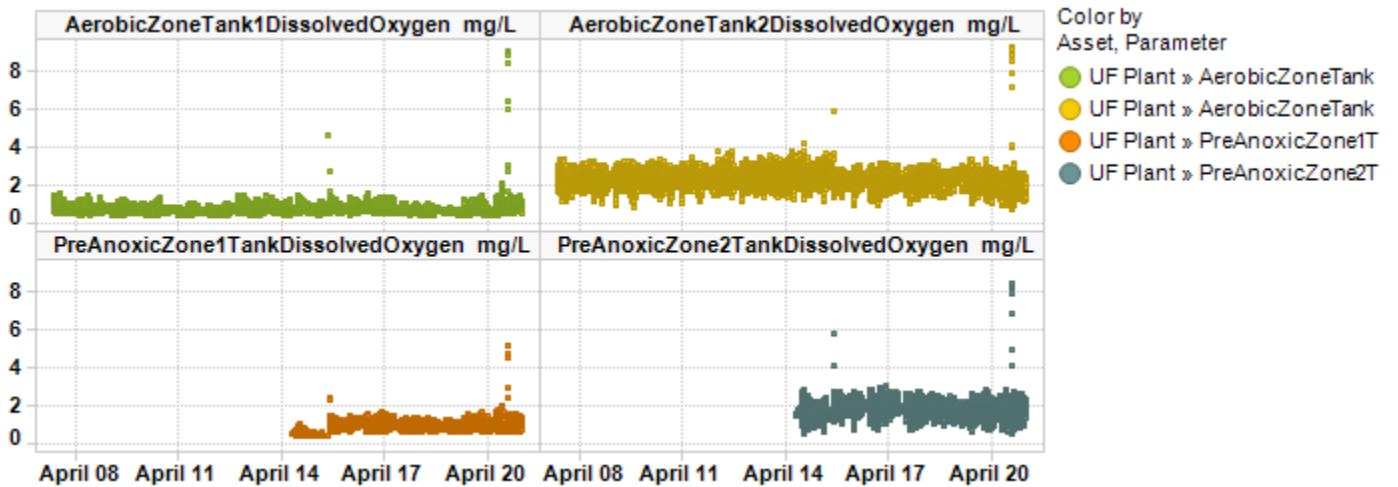


■ TCPermeabilityAfterBP
■ TCPermeabilityBeforeBP
■ TCPermeabilityDuringBP

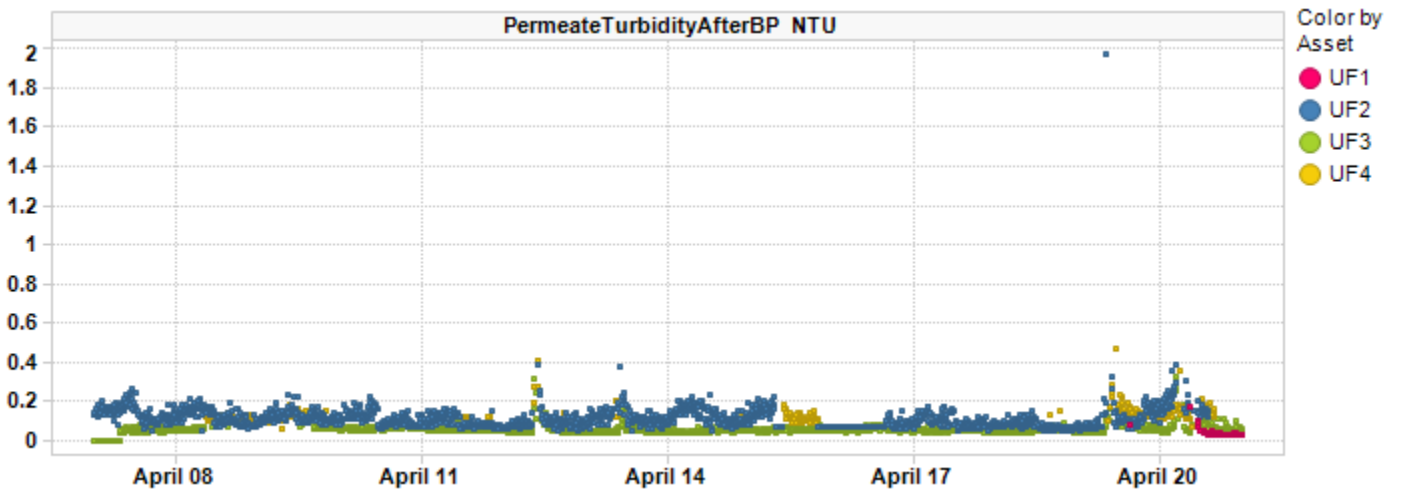




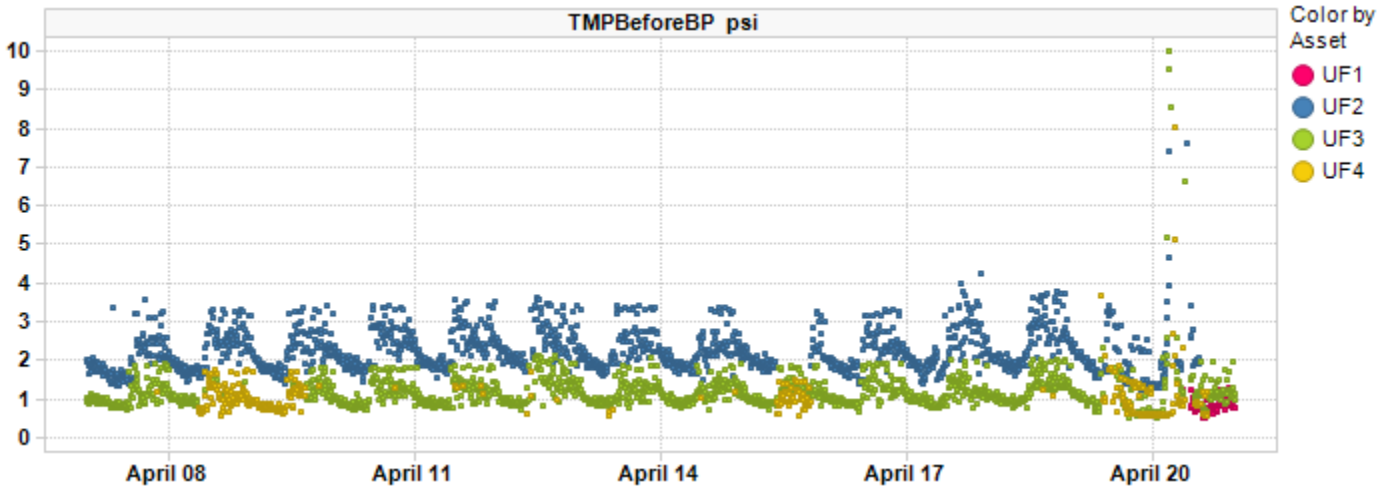
Bioreactor Dissolved Oxygen



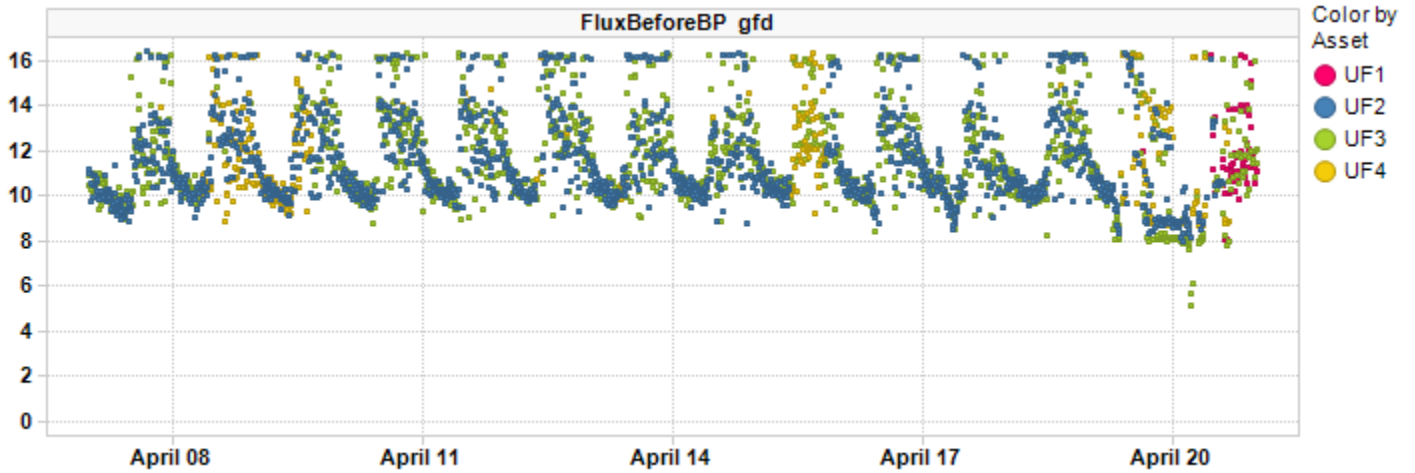
Permeate Turbidity Trend



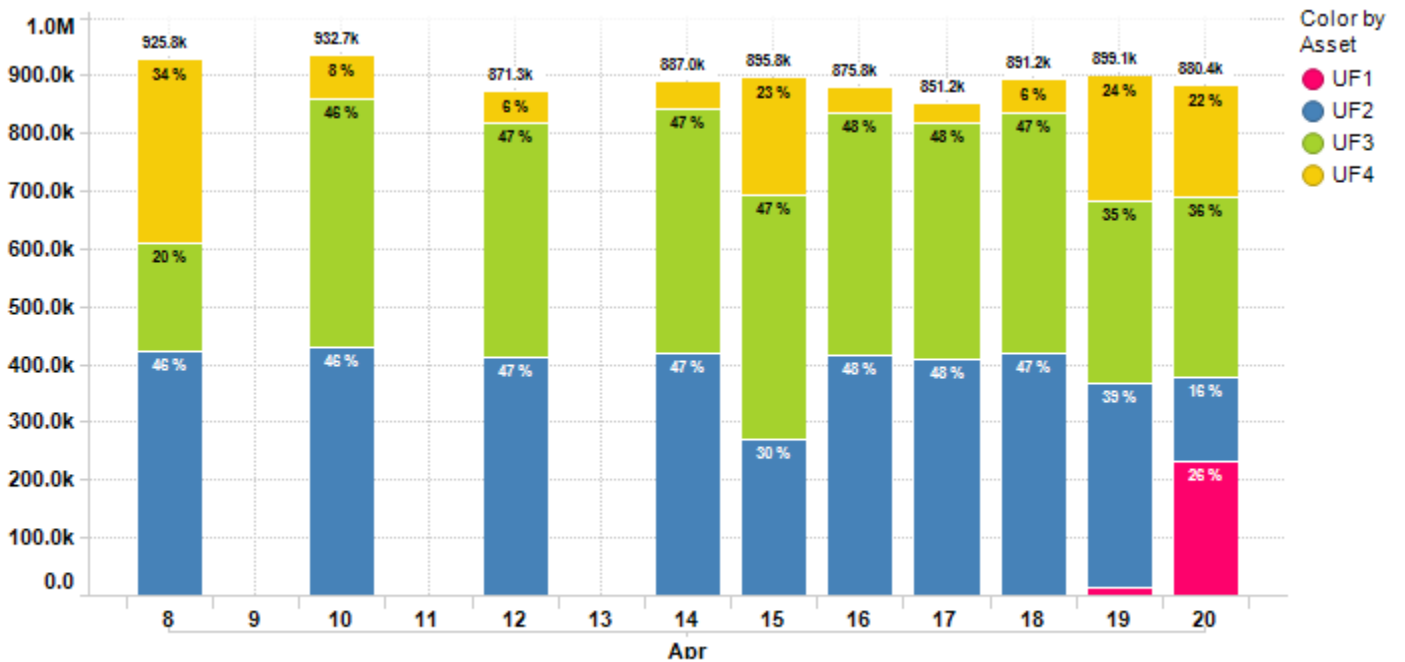
Before BPTMP Trend



Before BP Flux Trend



Daily Permeate Flow



Average Daily permeate flow from 4/7/2021 to 4/20/2021 is 891.0k gal with a maximum daily flow of 932.7k gal.



Asset Summary

KPI Parameters	Value/Change	UF1	UF2	UF3	UF4
FluxBeforeBP gfd	Value	11.72	11.54	11.55	11.59
	Change		-4.44 %	-4.60 %	-8.59 %
FluxDuringBP gfd	Value	18.77	18.47	18.49	18.71
	Change		-0.17 %	-0.02 %	0.07 %
PermeateTurbidityAfterBP NTU	Value	0.04	0.12	0.06	0.13
	Change		-32.85 %	-14.68 %	-9.96 %
TCPermeabilityBeforeBP gfd/psi	Value	14.80	5.57	10.79	12.75
	Change		9.20 %	2.01 %	18.00 %
TMPBeforeBP psi	Value	0.84	2.26	1.20	1.05
	Change		-38.42 %	-14.08 %	-38.07 %
TotalPermeateFlowDaily gal	Value	24.68k	369.93k	374.02k	122.39k
	Change	100.00 %	-7.93 %	-1.72 %	-117.65 %

Plant Summary

KPI Parameters	Value/Change	UF Plant
PermeateTemperature °F	Value	63.80
	Change	100.00 %
TotalPermeateFlowDaily gal	Value	892.31k
	Change	-17.48 %

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.

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LEWES BPW WWTP Biweekly InSight Report

Date: 5/5/2021

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

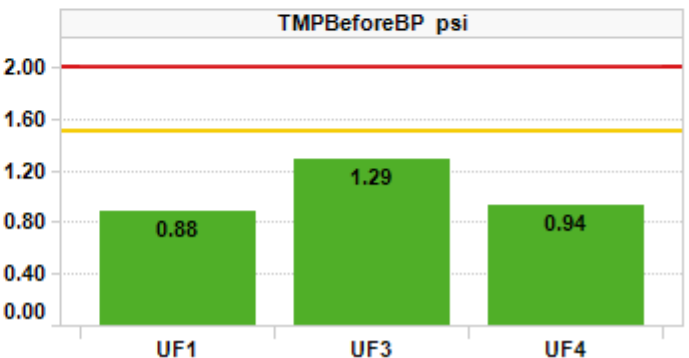
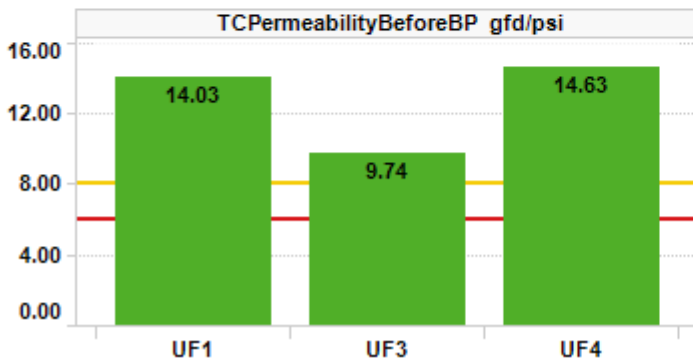
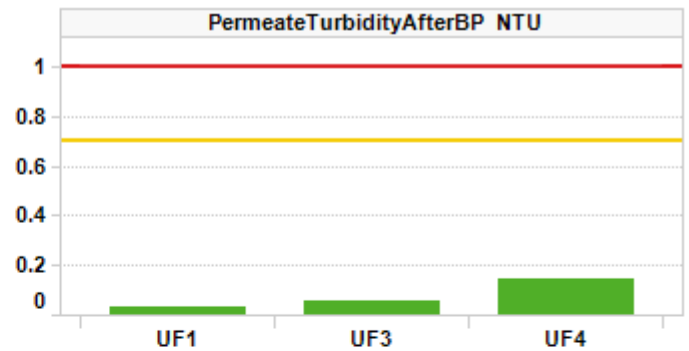
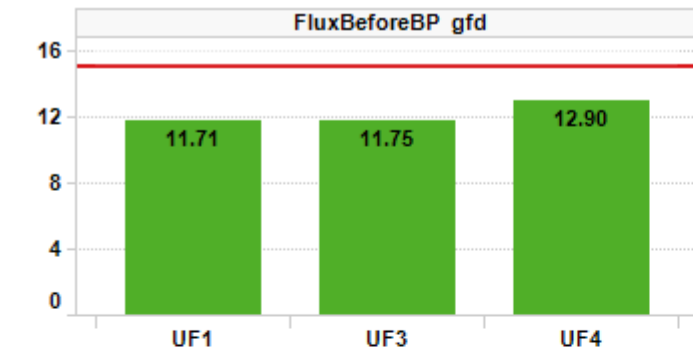
Cleaning Strategy

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

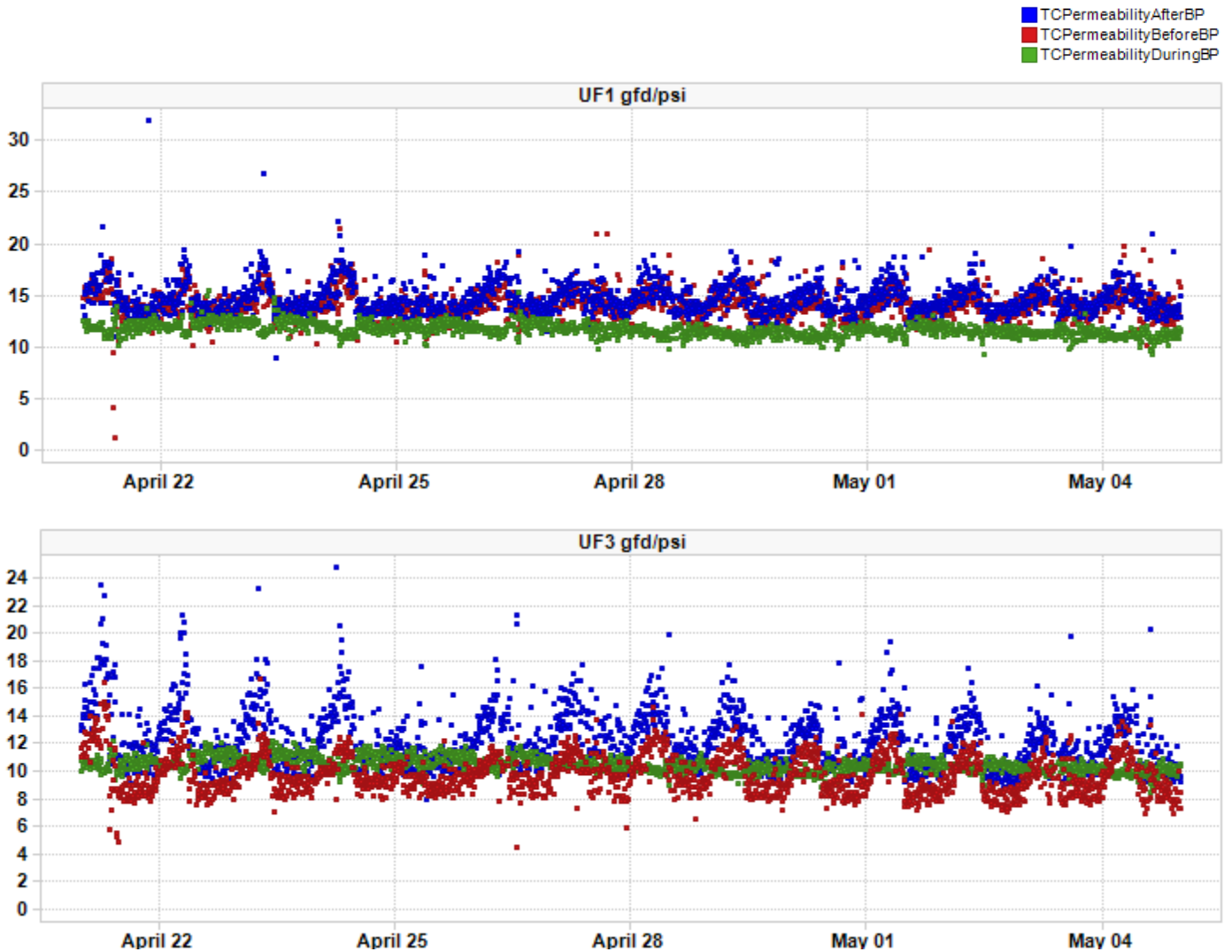
Overall, trains operated well with good TMPs and good. UF2 was taken offline April 20 for cleaning. UF1 is maintaining its performance gains from the recent manual cleaning.

- Daily permeate production averaged 0.9 MGD. Permeate temperature averaged 68°F, up from 64°F. Flux BBP averaged 11.7 gfd on UF1 and UF3, and 12.9 gfd on UF4. Train UF2 is offline since April 20 for manual cleaning of debris and solids. All trains are in Backpulse mode
- TMP BBP was good on all trains in Production, averaging 0.88, 1.29, and 0.94 psi on UF1, UF3, and UF4
- TC permeability BBP was good on UF1, UF3, and UF4, averaging 14.03, 9.74, and 14.63 gfd/psi
- Permeate turbidity ABP averaged 0.03, 0.06, and 0.14 NTU on UF1, UF3, and UF4 with stable trends
- UF1, UF3, and UF4 had 2 hypo and 2 citric maintenance cleans in this report

Acronyms:

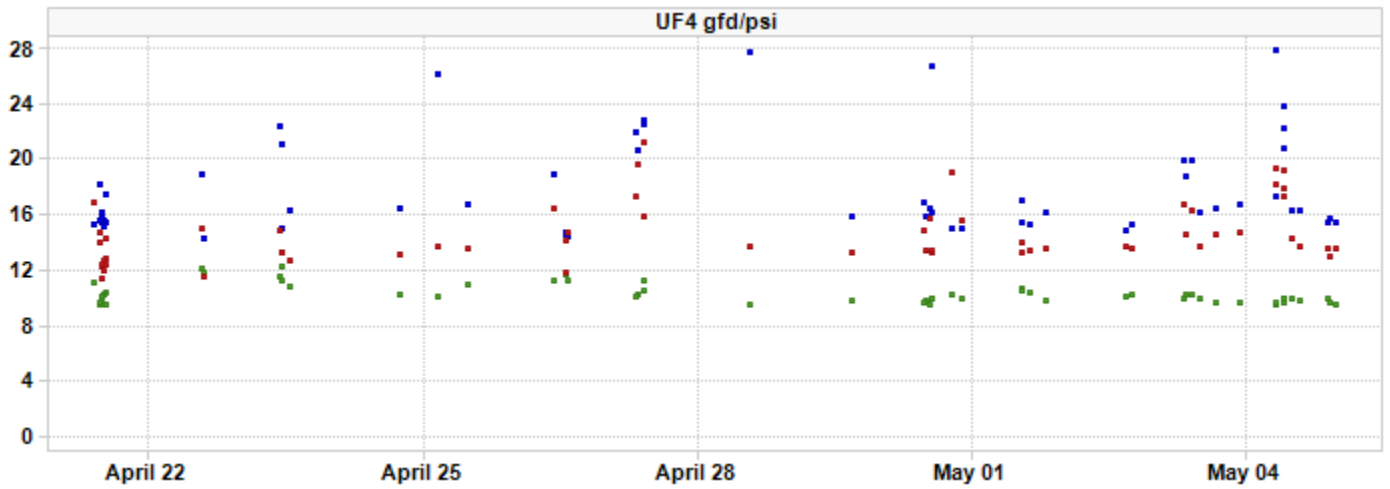
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TC Permeability Trends By Train

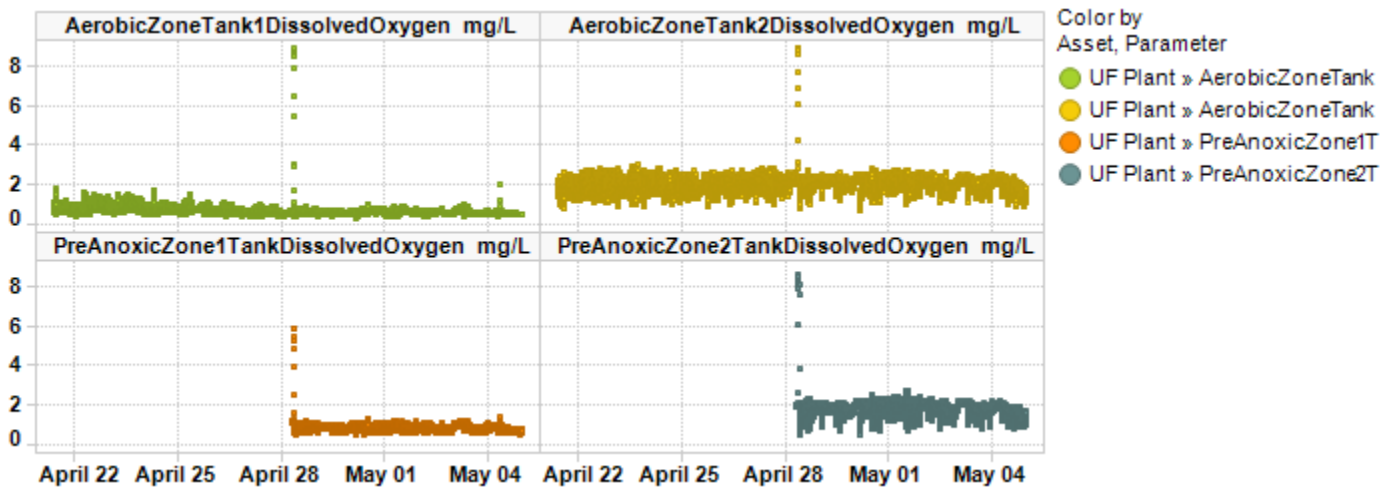




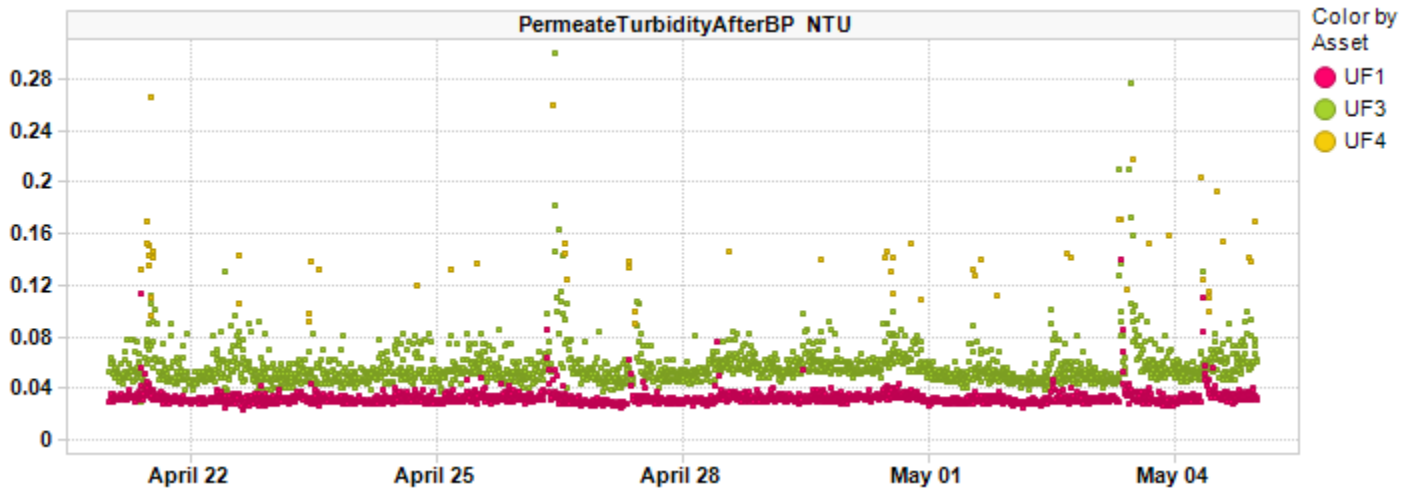
■ TCPermeabilityAfterBP
■ TCPermeabilityBeforeBP
■ TCPermeabilityDuringBP



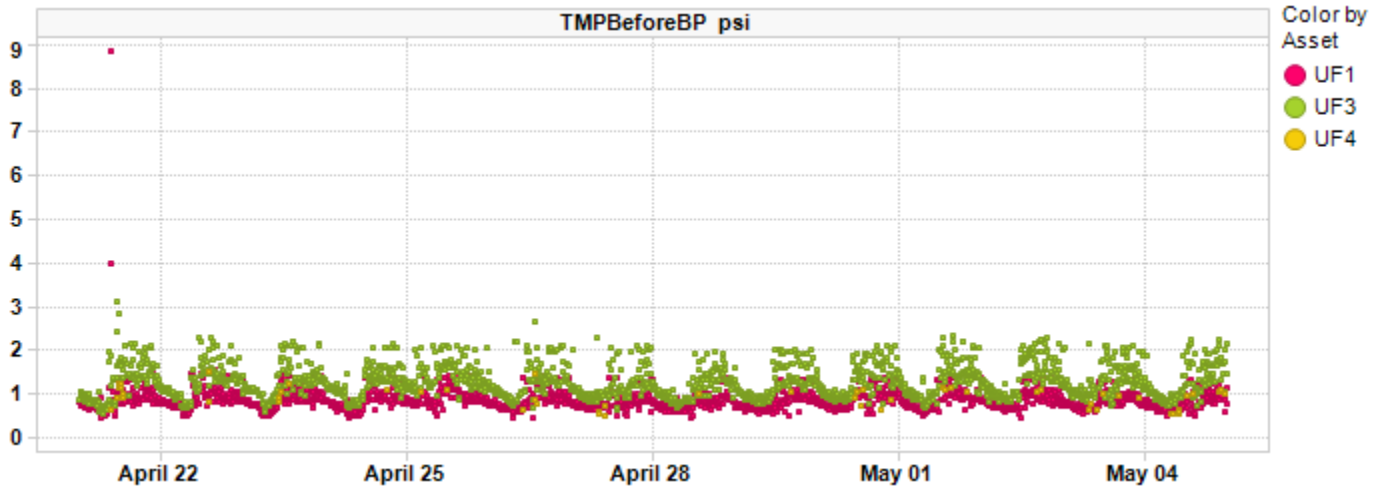
Bioreactor Dissolved Oxygen



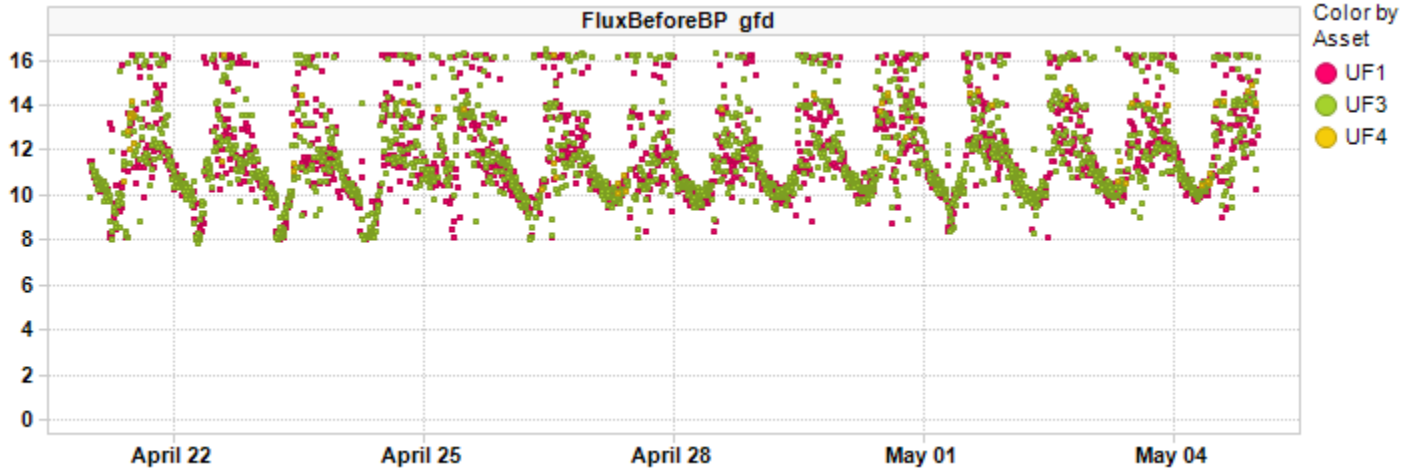
Permeate Turbidity Trend



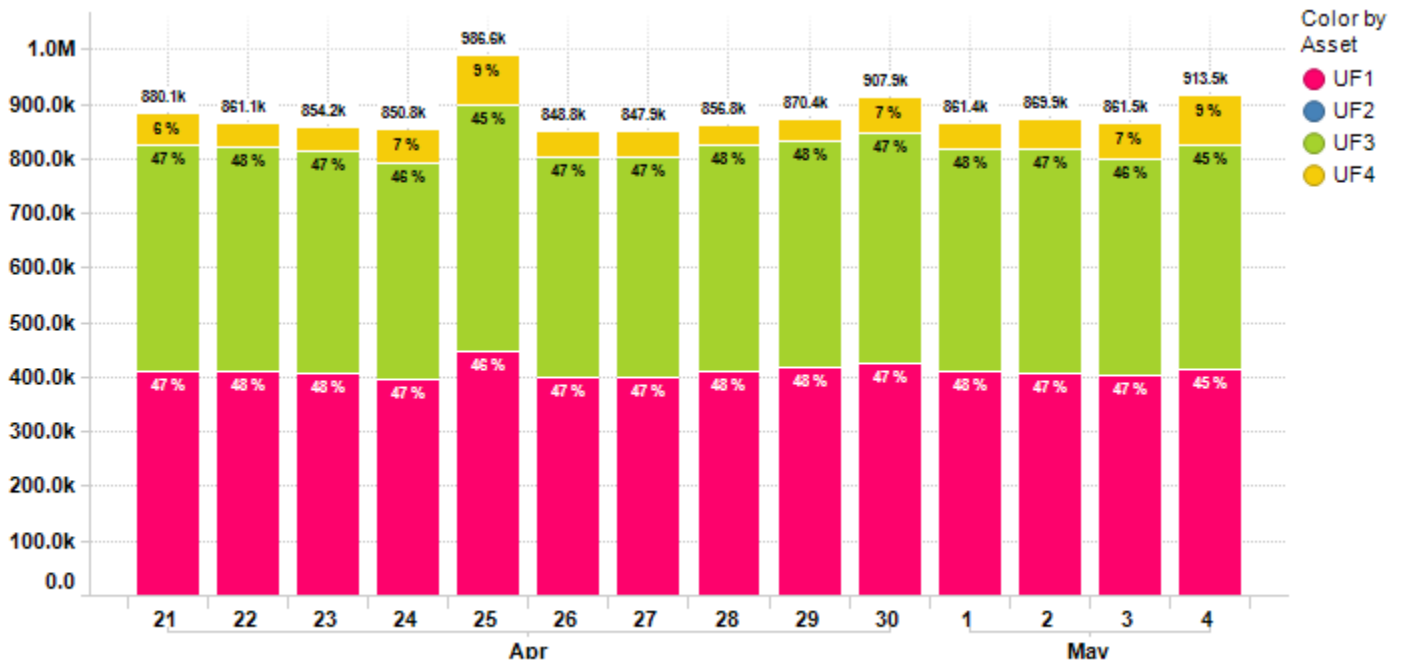
Before BPTMP Trend



Before BP Flux Trend



Daily Permeate Flow



Average Daily permeate flow from 4/21/2021 to 5/4/2021 is 876.5k gal with a maximum daily flow of 986.6k gal.



Asset Summary

KPI Parameters	Value/Change	UF1	UF2	UF3	UF4
FluxBeforeBP gfd	Value	11.71		11.75	12.90
	Change	-0.05 %		1.72 %	10.10 %
FluxDuringBP gfd	Value	18.78		18.47	18.70
	Change	0.04 %		-0.14 %	-0.06 %
PermeateTurbidityAfterBP NTU	Value	0.03		0.06	0.14
	Change	-28.93 %		-1.84 %	7.48 %
TCPermeabilityBeforeBP gfd/psi	Value	14.03		9.74	14.63
	Change	-5.49 %		-10.79 %	12.84 %
TMPBeforeBP psi	Value	0.88		1.29	0.94
	Change	4.86 %		7.05 %	-11.99 %
TotalPermeateFlowDaily gal	Value	412.06k	0.00	411.31k	53.13k
	Change	94.01 %	0.00 %	9.07 %	-130.34 %

Plant Summary

KPI Parameters	Value/Change	UF Plant
PermeateTemperature °F	Value	67.90
	Change	100.00 %
TotalPermeateFlowDaily gal	Value	881.12k
	Change	-1.27 %

Contract Expiry Date : 08/11/2021

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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 03 01 TO 2021 03 31

REPORT DESIGNATOR: A
 DATA ENTRY COMPLETE: 4/27/2021
 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	1.006	1.184	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			--	2.37		8.71	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			--	7.1		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			--		<4	45	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	<19	<21	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			--		206	206	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	<7	<8	lbs/Day		<0.8	<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
		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)

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 03 01 TO 2021 03 31

REPORT DESIGNATOR: A
 DATA ENTRY COMPLETE: 4/27/2021
 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
2/1	TSS	SAMPLE MEASUREMENT			--		278	278	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	44.6		lbs/Day		6.1		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	2.4		lbs/Day		0.3		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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			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	YEAR	MO
TYPED OR PRINTED					

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: March 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	mg/L	lbs
1	Mon.	1.081															
2	Tue.	0.991	<2.4	<20	0.7	6											
3	Wed.	1.062					7.1										
4	Thu.	1.127															
5	Fri.	1.005															
6	Sat.	0.993															
7	Sun.	0.915															
8	Mon.	0.923															
9	Tue.	0.882	<2.4	<18	<1.0	<7		0.3	2.35	6.1	44.58	0.1	1	5.2	38	0.9	7
10	Wed.	0.899					3.0										
11	Thu.	0.964															
12	Fri.	1.109															
13	Sat.	0.946															
14	Sun.	0.946															
15	Mon.	0.931															
16	Tue.	0.916	<2.4	<18	<1.0	<8											
17	Wed.	0.875					44.8										
18	Thu.	1.019															
19	Fri.	0.992					<1.0										
20	Sat.	0.968															
21	Sun.	0.987															
22	Mon.	0.882															
23	Tue.	0.886	<2.4	<18	<1.0	<7											
24	Wed.	1.184					1.0										
25	Thu.	1.107															
26	Fri.	1.101															
27	Sat.	1.134															
28	Sun.	1.103															
29	Mon.	1.066															
30	Tue.	1.025	<2.4	<21	<0.5	<4											
31	Wed.	1.157					4.1										
TOTAL		31.1750															
AVERAGE		1.0056	<2.40	<18.80	<0.84	<6.50	4.0	0.32	2.35	6.06	44.58	0.13	0.96	5.15	37.88	0.91	6.69
MAXIMUM		1.1840	<2.40	<20.50	<1.00	<7.60	44.80	0.32	2.35	6.06	44.58	0.13	0.96	5.15	37.88	0.91	6.69
MINIMUM		0.8750	<2.40	<17.70	<0.50	<4.30	<1.00	0.32	2.35	6.06	44.58	0.13	0.96	5.15	37.88	0.91	6.69
Removal (%)			98.8		99.7												


INFLUENT						
DATE	DAY	Flow MGD	BOD		TSS	
			mg/L	lbs	mg/L	lbs
1	Mon.	1.112				
2	Tue.	0.985	206.0	1692	278.0	2284
3	Wed.	1.020				
4	Thu.	1.088				
5	Fri.	1.018				
6	Sat.	0.992				
7	Sun.	0.933				
8	Mon.	0.916				
9	Tue.	0.886				
10	Wed.	0.875				
11	Thu.	0.977				
12	Fri.	1.001				
13	Sat.	1.002				
14	Sun.	0.960				
15	Mon.	0.937				
16	Tue.	0.908				
17	Wed.	0.876				
18	Thu.	0.946				
19	Fri.	1.033				
20	Sat.	0.965				
21	Sun.	0.939				
22	Mon.	0.904				
23	Tue.	0.886				
24	Wed.	1.025				
25	Thu.	1.177				
26	Fri.	1.078				
27	Sat.	1.058				
28	Sun.	1.106				
29	Mon.	1.075				
30	Tue.	1.011				
31	Wed.	1.062				
TOTAL		30.7510				
AVERAGE		0.99	206	1,692	278	2,284
MAXIMUM		1.18	206	1,692	278	2,284
MINIMUM		0.88	206	1,692	278	2,284
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											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	0.8370	4.09	856.52	-	0.27	56.54	-	-	-	734.85
May	31	-	-	-	-	-	-	-	-	-	-
June	30	-	-	-	-	-	-	-	-	-	-
July	31	-	-	-	-	-	-	-	-	-	-
August	31	-	-	-	-	-	-	-	-	-	-
September	30	-	-	-	-	-	-	-	-	-	-
October	31	-	-	-	-	-	-	-	-	-	-
November	30	-	-	-	-	-	-	-	-	-	-
December	31	-	-	-	-	-	-	-	-	-	-
January	31	-	-	-	-	-	-	-	-	-	-
February	28	-	-	-	-	-	-	-	-	-	-
Year Balance											734.85

Comments:

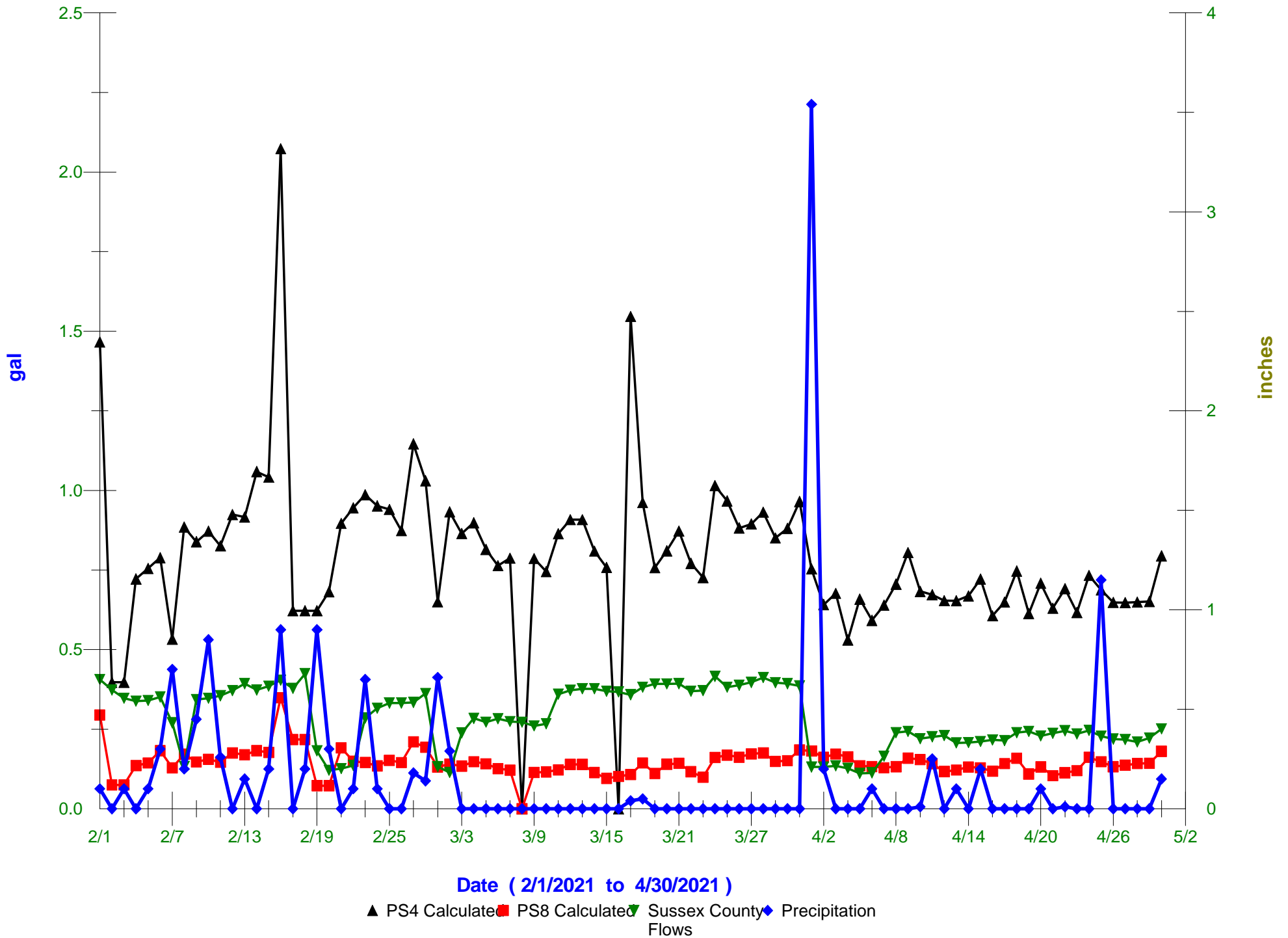


 Authorized Signatory

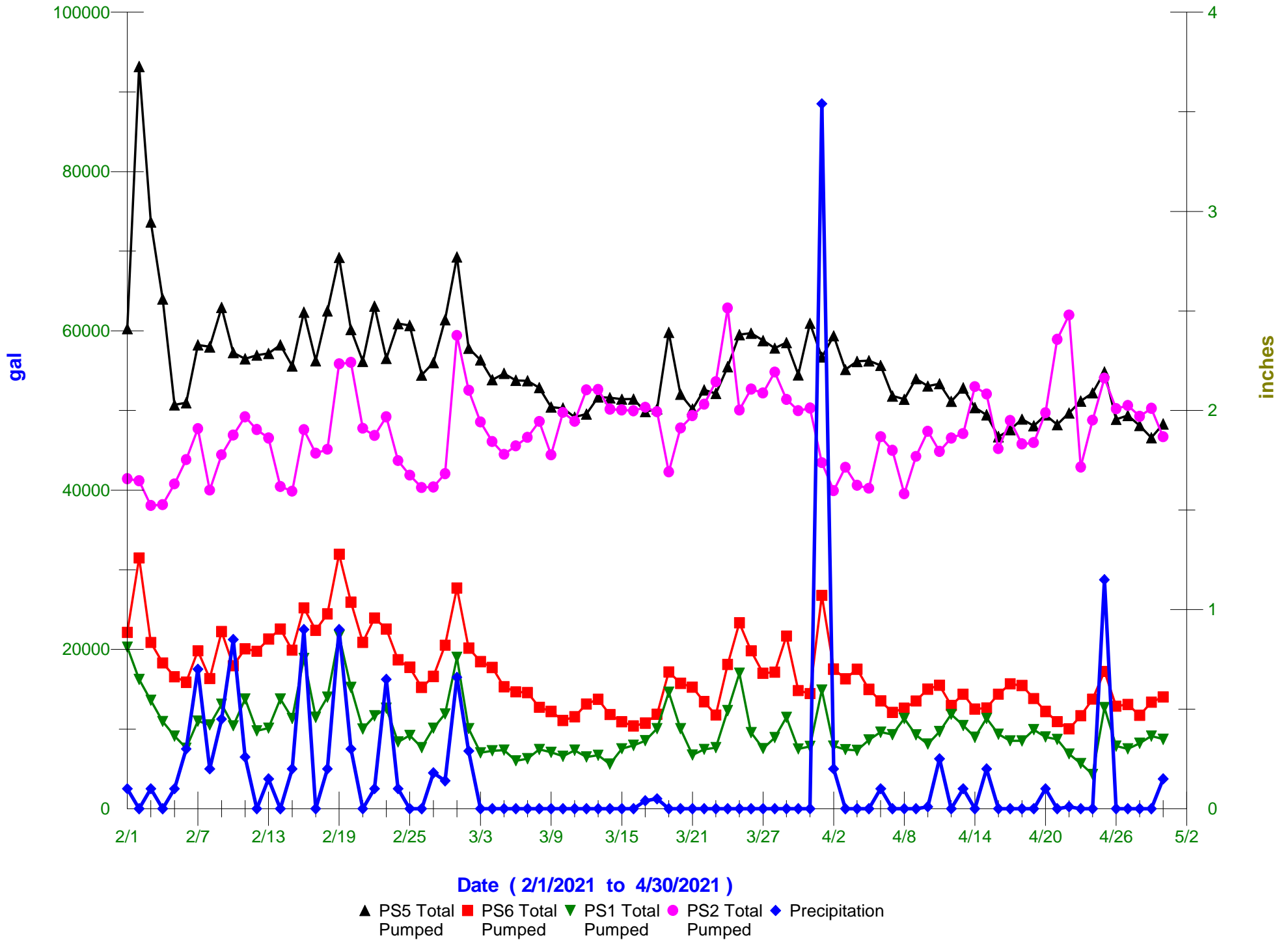


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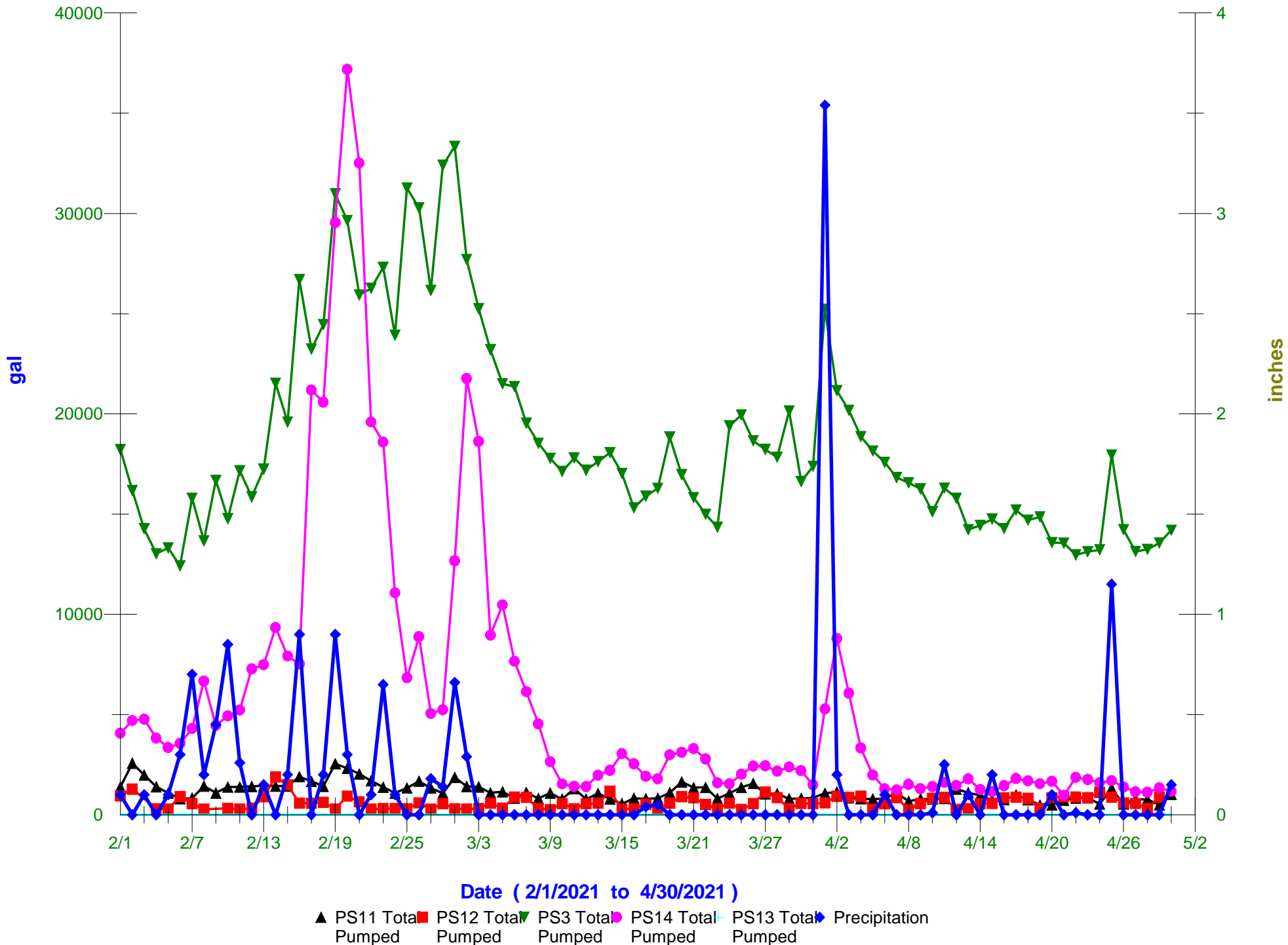
Data Over Time



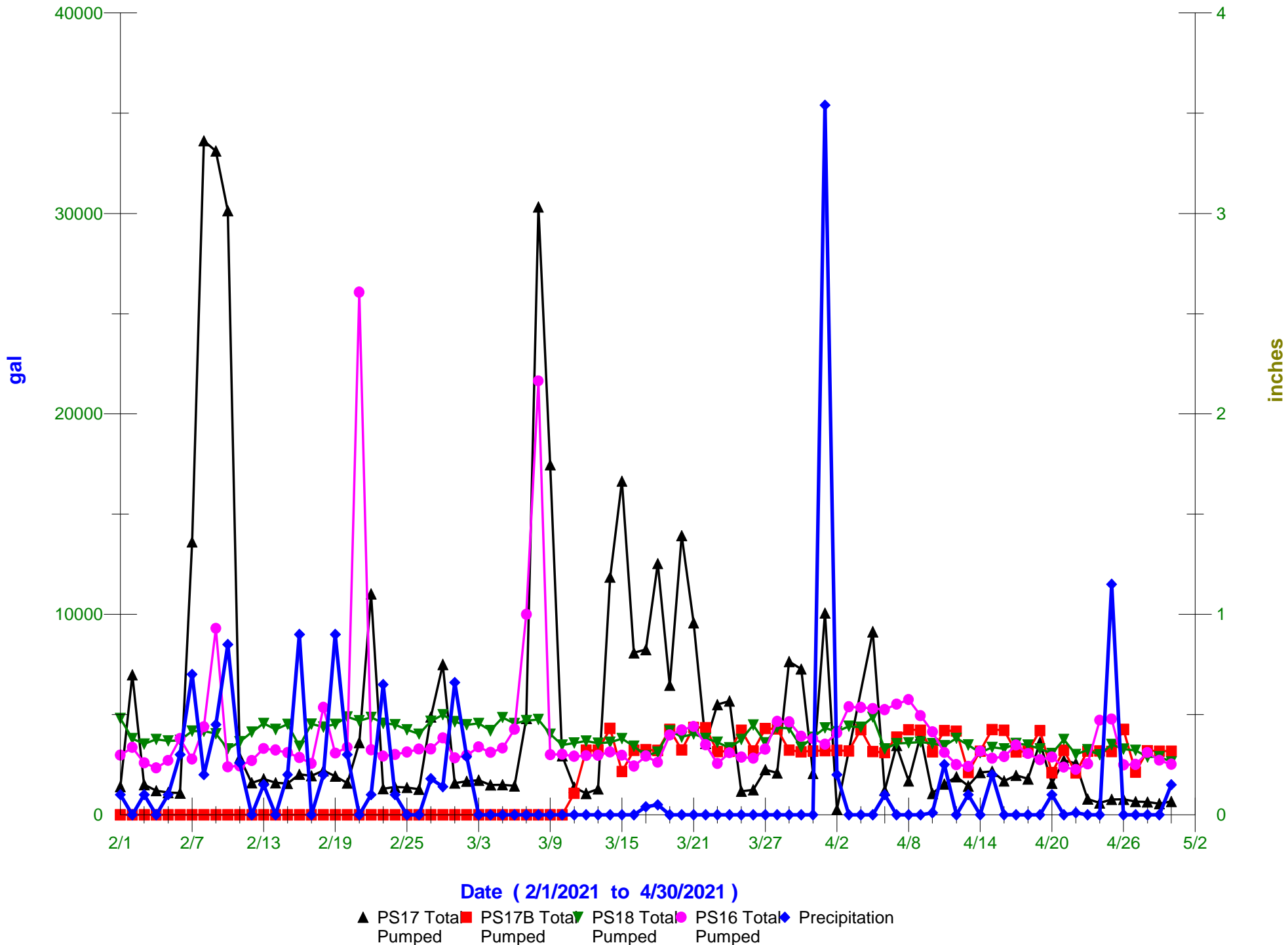
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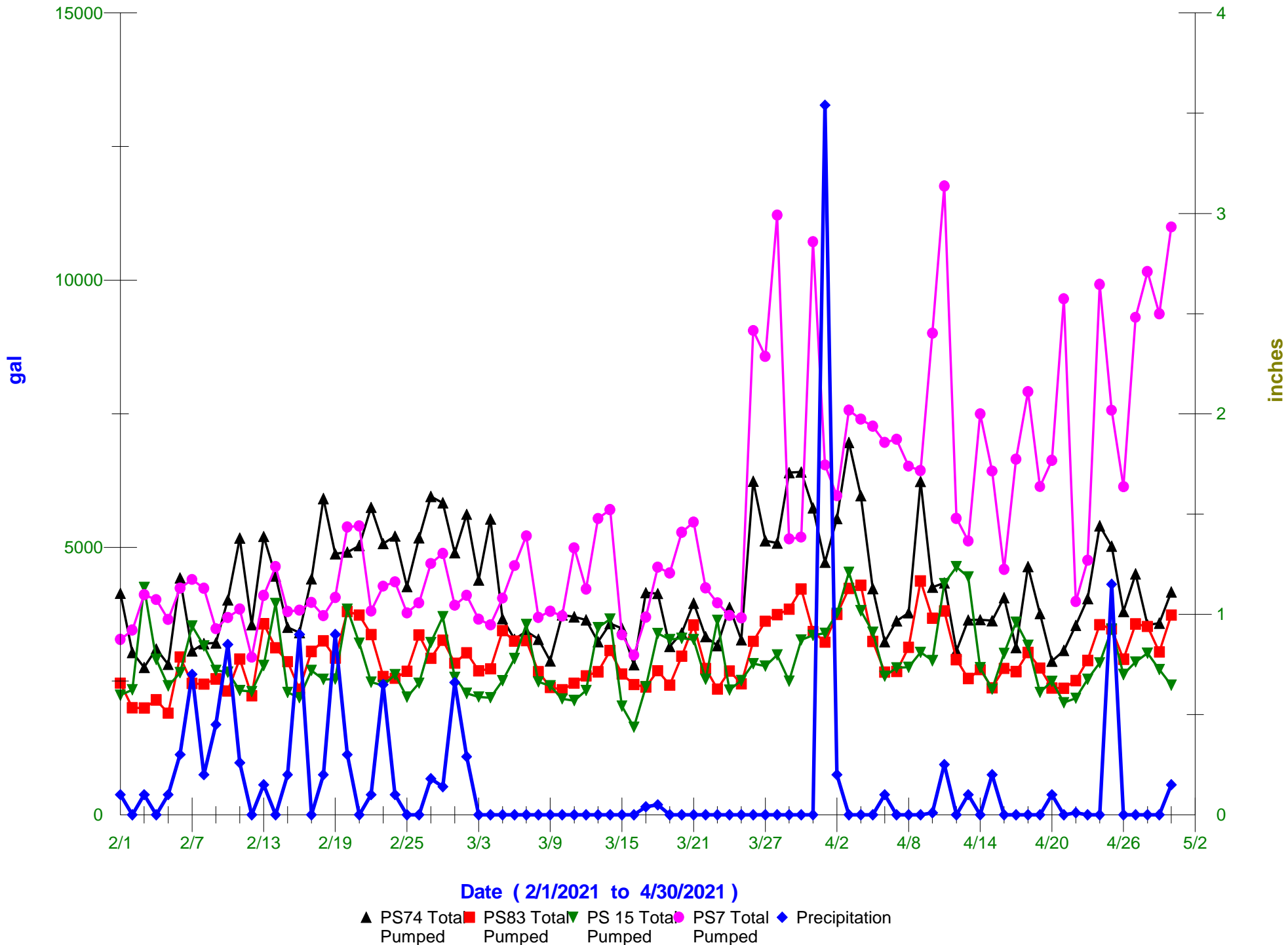
Data Over Time



Data Over Time



Data Over Time



Data Over Time

