

Superintendents Report for November 2021

12/14/2021

Plant continues to meet all parameters of the SPDES permit. We are coming into a busy season, preparing for all annual reports.

The Duperon Compactor assembly for the Bar screen arrived and our Plant mechanics installed it in one day. It has been operating well.

Electrical department continues to remove abandoned conduit where practical.

Annual required Workplace Violence, Hazard Communication and Blood-Borne Pathogen training has been taking place.

Annual inspection of Frito-Lay pre-treatment took place on 12/9/2021. Present were Adam Scicchitano from GHD, Ron Warwick Jr and myself.

Annual inspections of the Broome community college pre-treatment will take place 12/10/2021 and I3 pre-treatment will take place on 12/16/2021.

We have asked the personnel committee to send the CMMS clerk and the Electricians helper job description and new position duty statements to civil service, to be accepted. Mr. Crumb has sent them on.

After speaking with Sharon Sorokin at Civil service,

We would ask to get on the agendas at City council and village Board meetings to move funds from One Operator 3 position to One Operator1/Trainee position and Two Operator 2 positions to Two Operator 1/Trainee positions.

We plan on requesting the Electricians helper position be funded with the second Electricians funding, if and when the Civil service department approves this position.

We will also ask to fund a Mechanics assistant position with a mechanics funding.

RSP was on-site Wednesday 12/8/2021 to look at Micro-Turbines. As of Wednesday the Gas production has been better. In Dec we are averaging 3483 KWH/day vs. 2501 KWH/day in Nov. The Water plant will be draining one Basin on 12/9/2021 and only have one more basin remaining.

Larry has made a modification to the Plant web-site. The link will be called the Open Meeting Law Documents. The links are to provide documents at least 24 hours ahead of our board meetings. I would ask everyone to understand, we operate 24/7 and on occasion things will come up last minute. We will do our best to get documents posted as soon as they become available. Last minute documents provided to the board will be available hard copy at the board meetings. Those documents will also be placed on the web-site in the appropriate month link.

The link to the web-site is: <http://www.bjcwwtp.org/>

Superintendents Report for November 2021

	FLOW	CBOD5		REM	Tot Susp Solids		REM	Settleable Solids		REM	Total Nitrogen		REM	Phosphorous		REM	Rain
	MGD	In	out	%	In	out	%	In	out	%	In	out	%	In	out	%	Inches
	AVG		limit			limit			limit			limit			limit		
		18 mg/L			20 mg/L			0.3 mL/L			6.0 mg/L			1.0 mg/L			
Jan	18.46	194	11	94%	156	8.7	94%	6.60	0.05	99%	16.0	2.6	84%	3.03	0.46	85%	2.34
Feb	15.55	216	11	95%	212	6.7	97%	8.80	0.03	100%	25.8	2.3	91%	4.20	0.46	89%	1.87
Mar	20.55	154	12	92%	163	7.0	96%	7.50	0.08	99%	20.0	2.5	88%	3.34	0.42	87%	1.80
Apr	17.55	175	12	93%	195	8.7	96%	10.70	0.01	100%	22.7	2.1	91%	3.80	0.47	88%	3.22
May	21.35	159	8	95%	186	9.0	95%	9.80	0.01	100%	22.4	3.0	87%	3.83	0.50	87%	4.33
Jun	15.24	213	7	97%	270	9.0	97%	12.20	0.01	100%	26.0	2.9	89%	4.59	0.45	90%	2.96
Jul	24.92	134	5	96%	220	7.8	96%	9.40	0.14	99%	18.60	3.3	82%	2.57	0.41	84%	9.43
Aug	15.71	194	9	95%	218	10.1	95%	13.60	0.12	99%	24.60	3.5	86%	3.95	0.50	87%	3.65
Sep	15.05	173	9	95%	189	7.2	96%	11.30	0.02	100%	20.47	2.60	87%	4.1	0.41	90%	4.09
Oct	19.04	167	11	93%	209	7.4	96%	16.30	0.02	100%	16.8	2.80	83%	3.19	0.35	89%	5.82
Nov	19.03	161	9	94%	179	6.2	97%	10.30	0.08	99%	15.73	3.40	78%	9.5	0.32	97%	2.41
Dec																	
Avg	18.40	176	9	95%	200	8.0	96%	10.6	0.05	99%	20.83	2.82	86%	4.19	0.43	88%	TOT
																	41.92
Outfall 001																	
Outfall 01A																	
Outfall 01B																	
Duration = 8.72 Hrs Total flow = 25.87																	
The Permit for TN = 6mg/L from Outfall O1A. REM = Removal %																	
The Permit for TN = Monitor month avg. from Outfall 001 Not to exceed 639,261 lbs. 12 month rolling avg.																	
Outfall OO1 includes flow through O1A and O1B bypass																	

Landfill Solids 2021

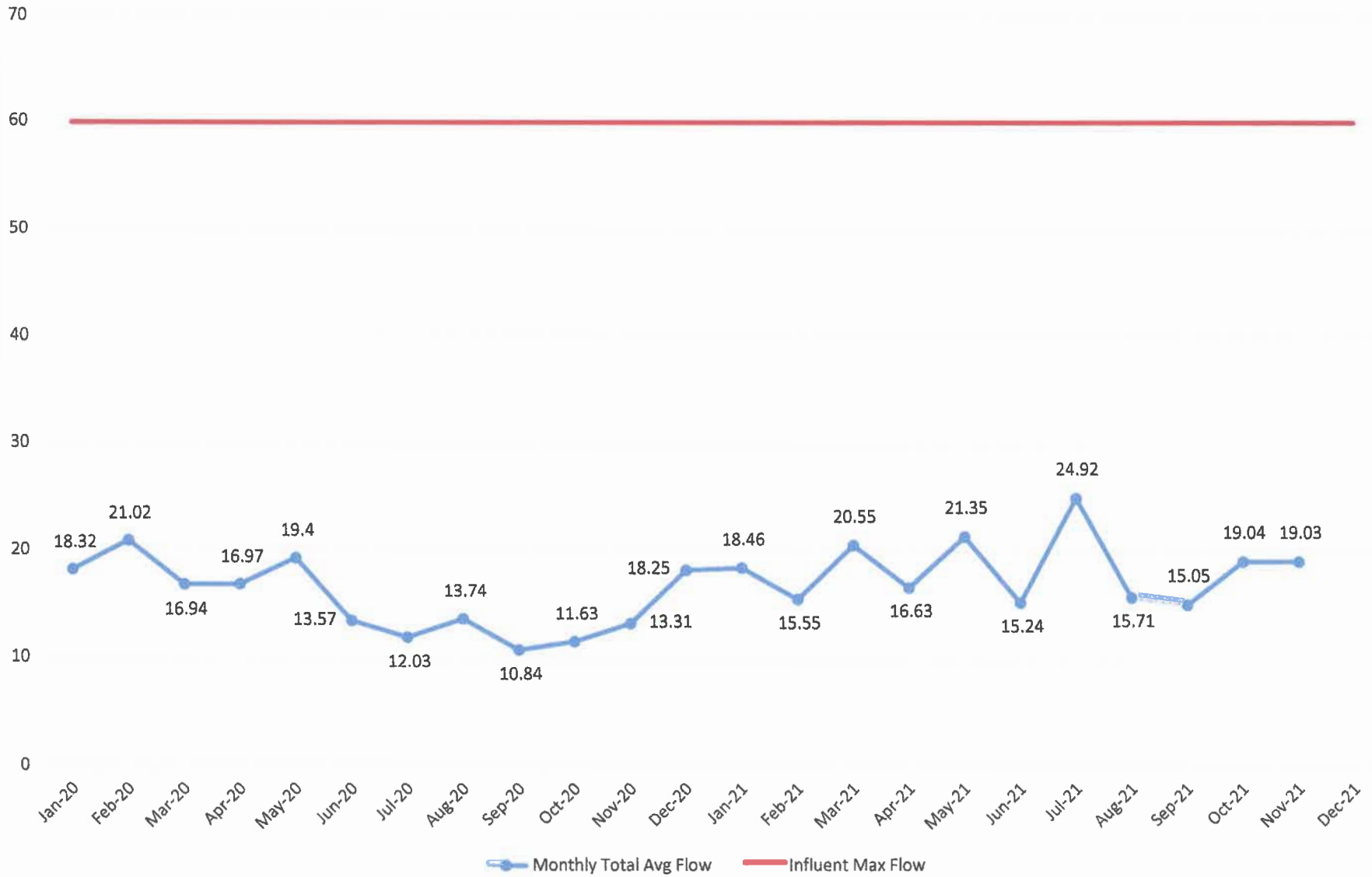
	Date	Digested	Lime Stabilized	Solids Total	Bar screen	Grit and Screen	Grease	
		Tons	Tons	Tons	Tons	Tons	Tons	
	January	647.19		647.19		7.29		
	February	549.86		549.86		12.08		
	March	673.60		673.60		19.16		
	April	666.94	63.88	730.82		12.63	2.30	
	May	708.98		708.98		18.14		
	June	714.87	31.34	746.21		19.99		
	July	742.01		742.01		24.57		
	August	726.83		726.83		31.29	4.32	
	September	712.94	119.93	832.87		22.22		
	October	687.03	109.93	796.96		32.91		
	November	732.21		732.21		38.9		
	December							
	Average Tons	687.50	81.27	717.05	#DIV/0!	21.74	3.31	
	Total Tons	7,562.46	325.08	7,887.54	0	239.18	6.62	

Notes:

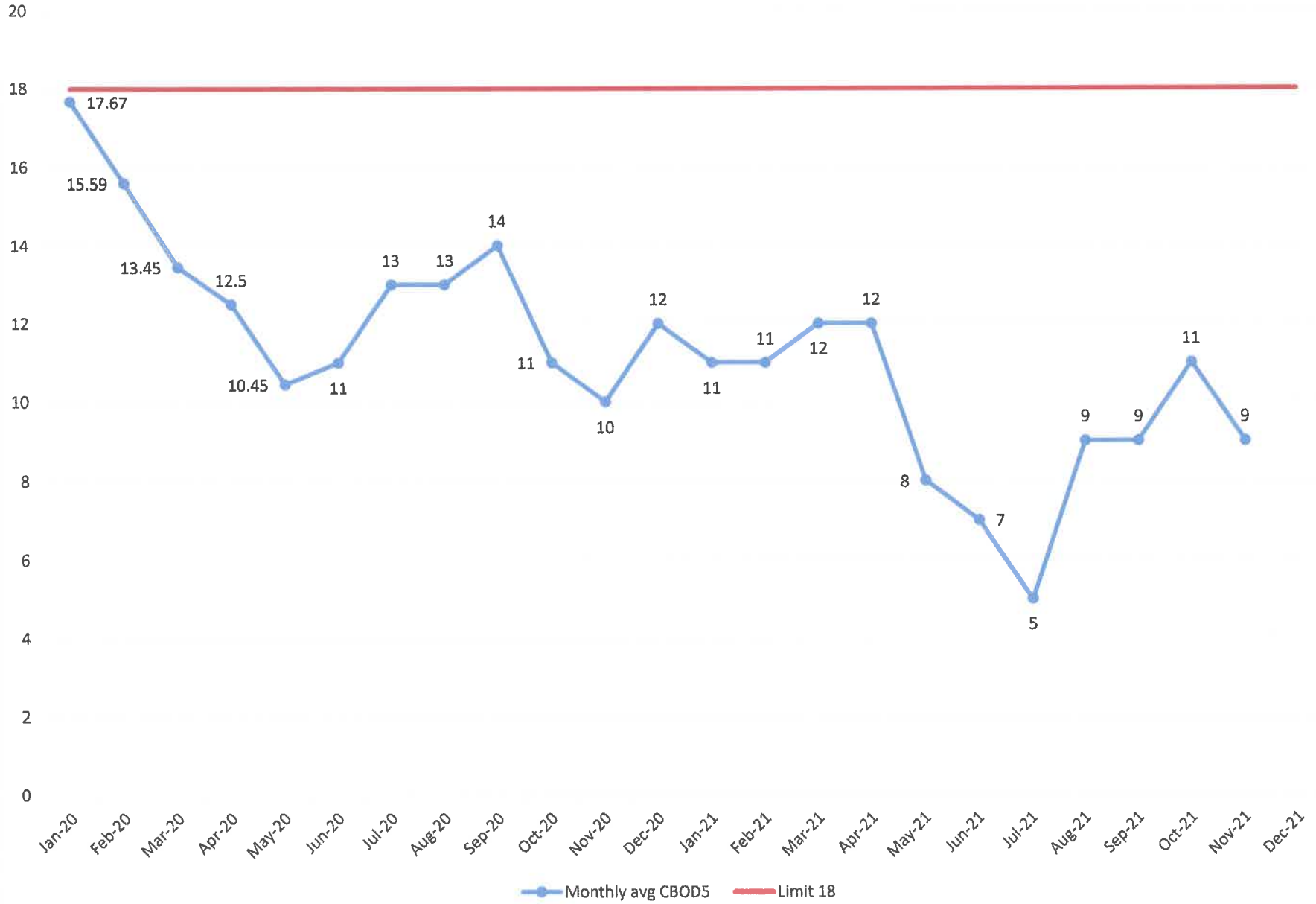
If cell is blank, that item did not go to the landfill (Or the Bill has not Posted)

Budgeted \$290,000.00

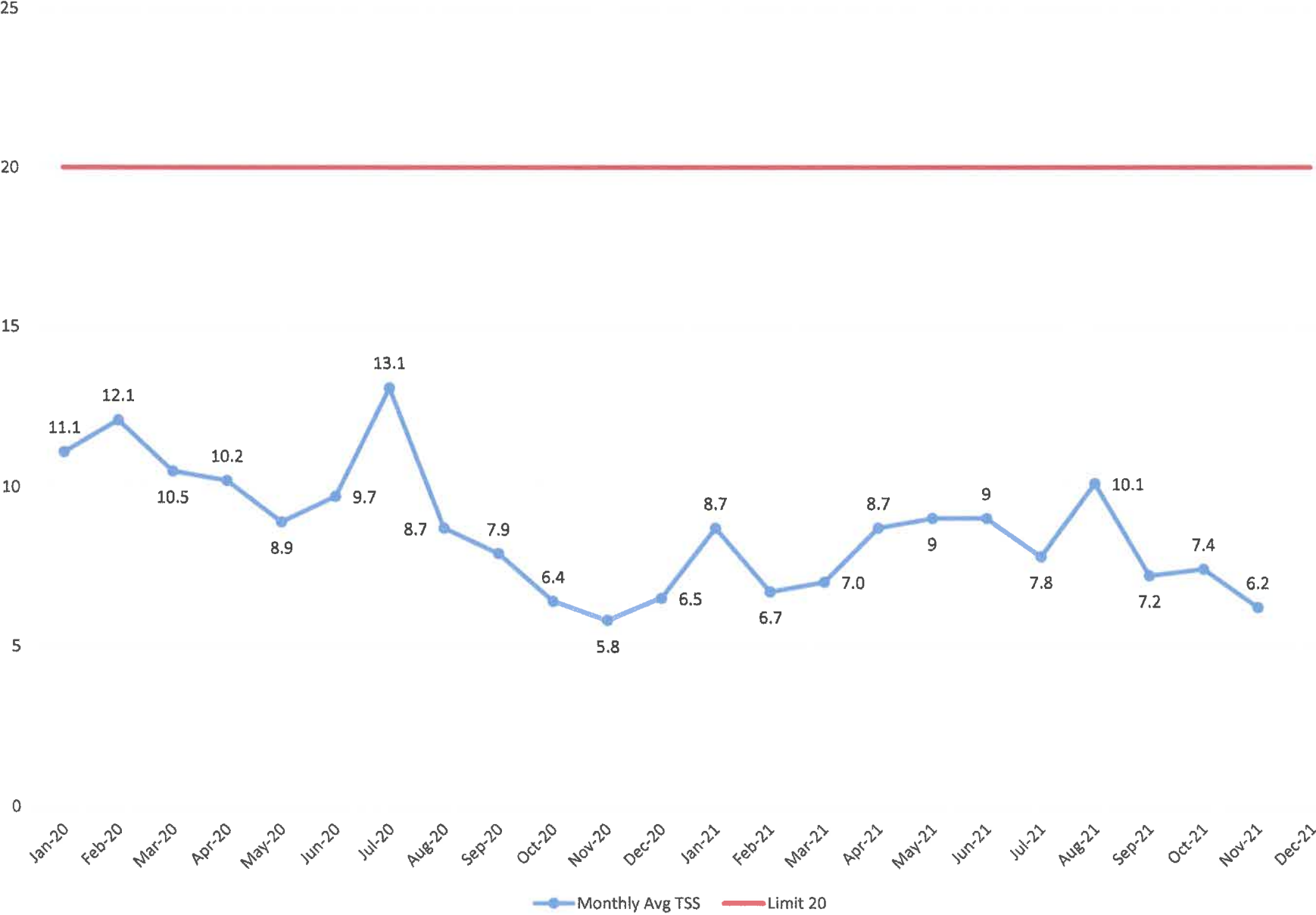
2020-2021 Influent
60 MGD Max
72 Max with Recycle flow



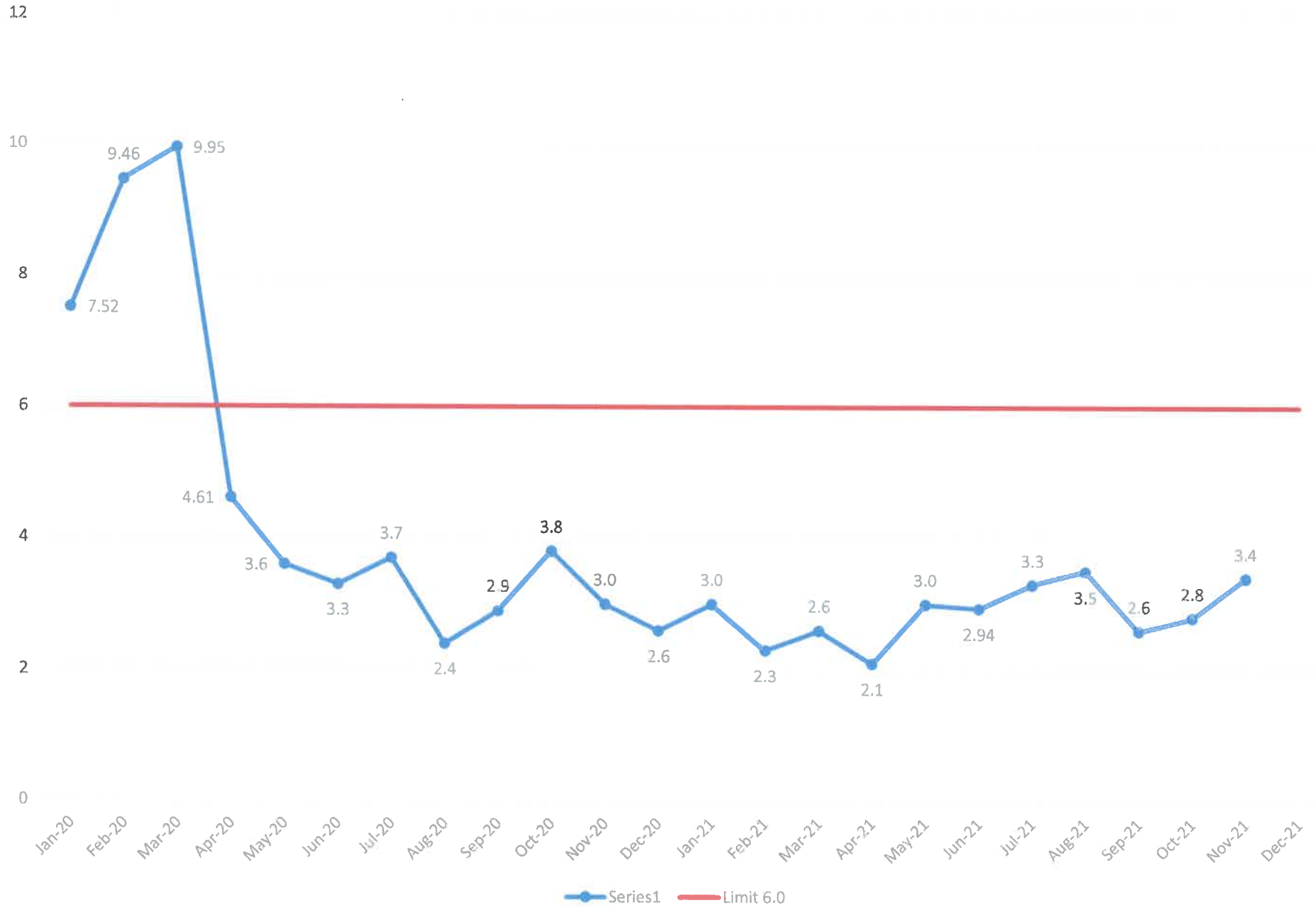
CBOD5 2020-2021



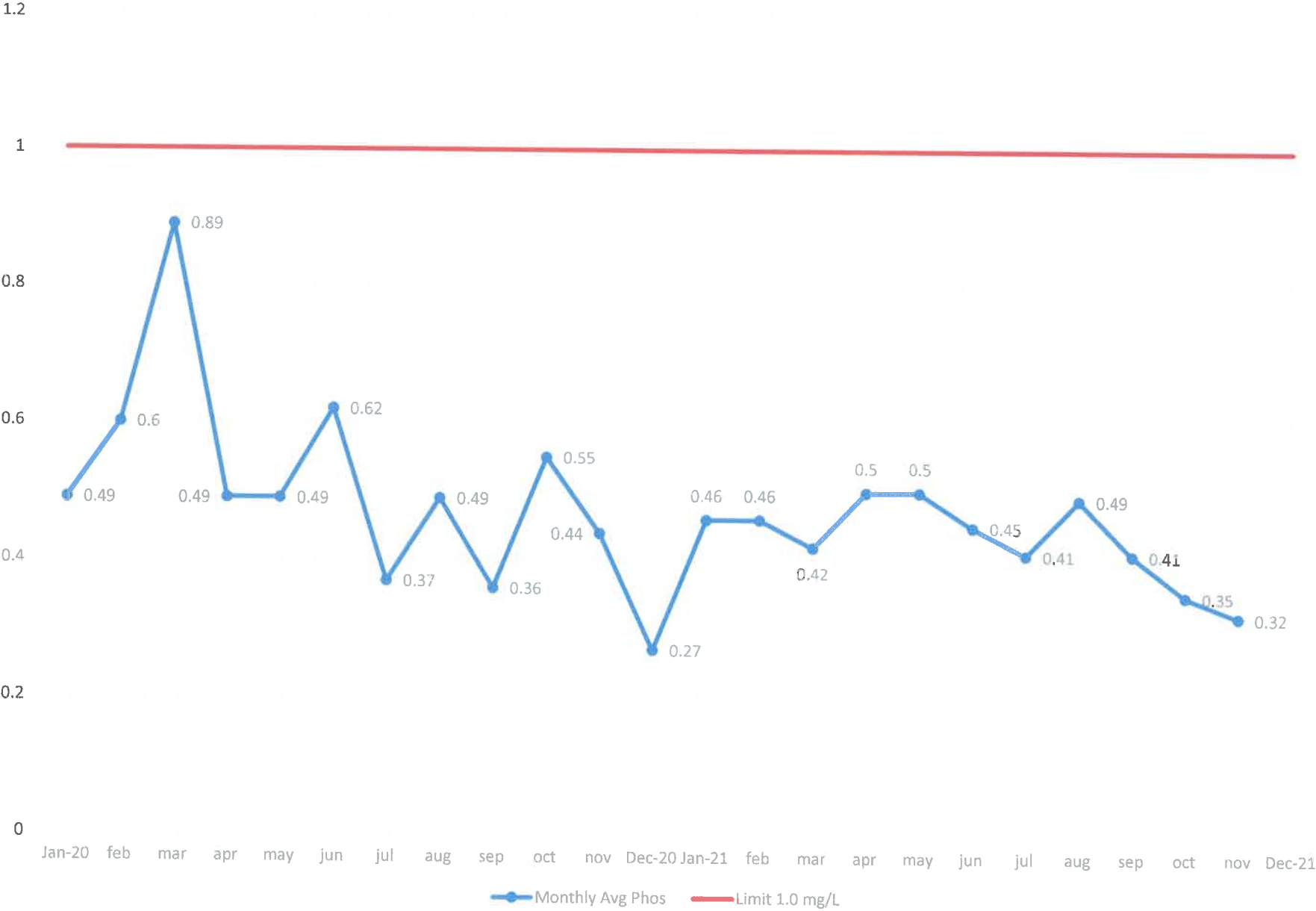
TSS 2020-2021



TN 2020-2021



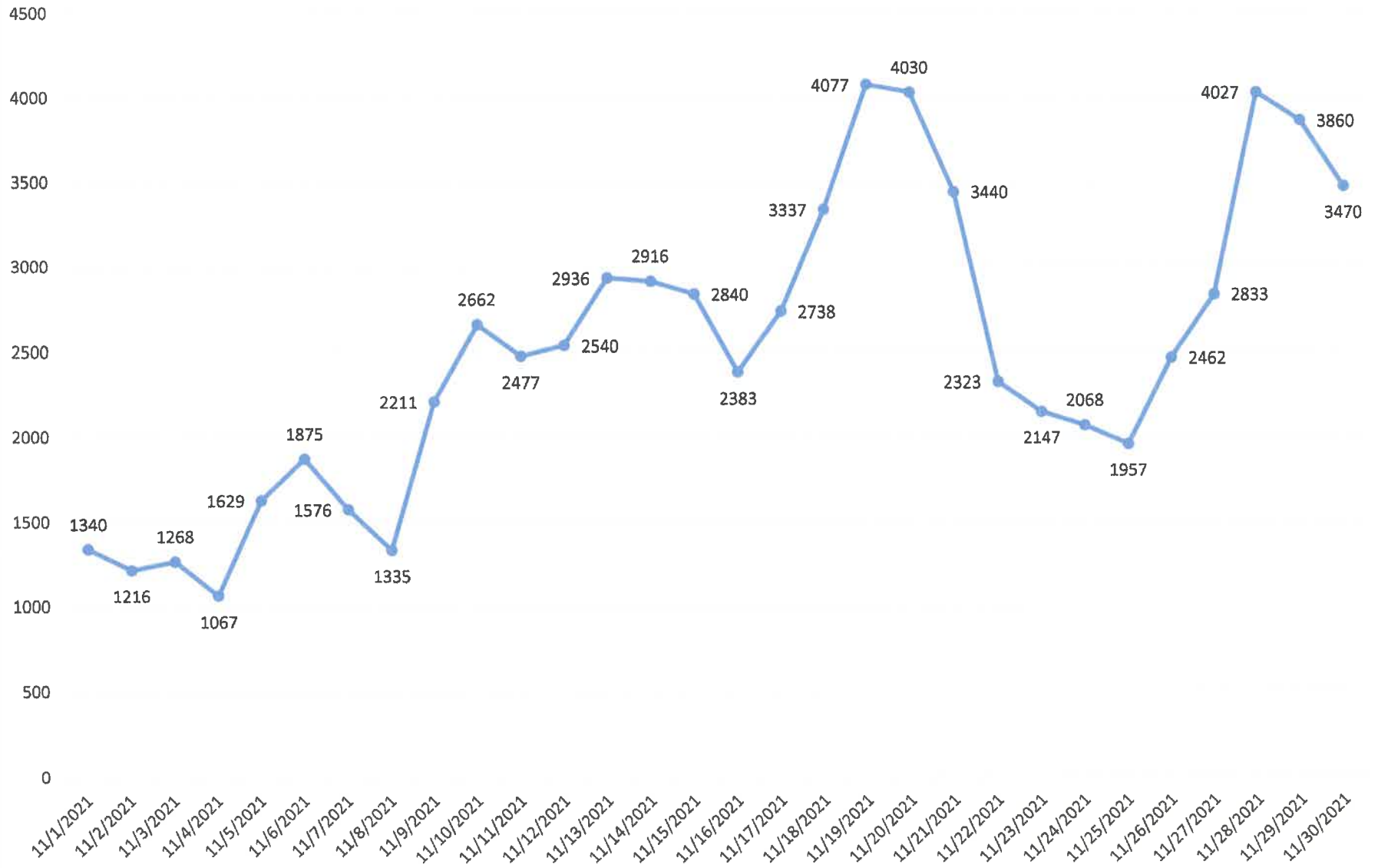
Phosphorous 2020-2021



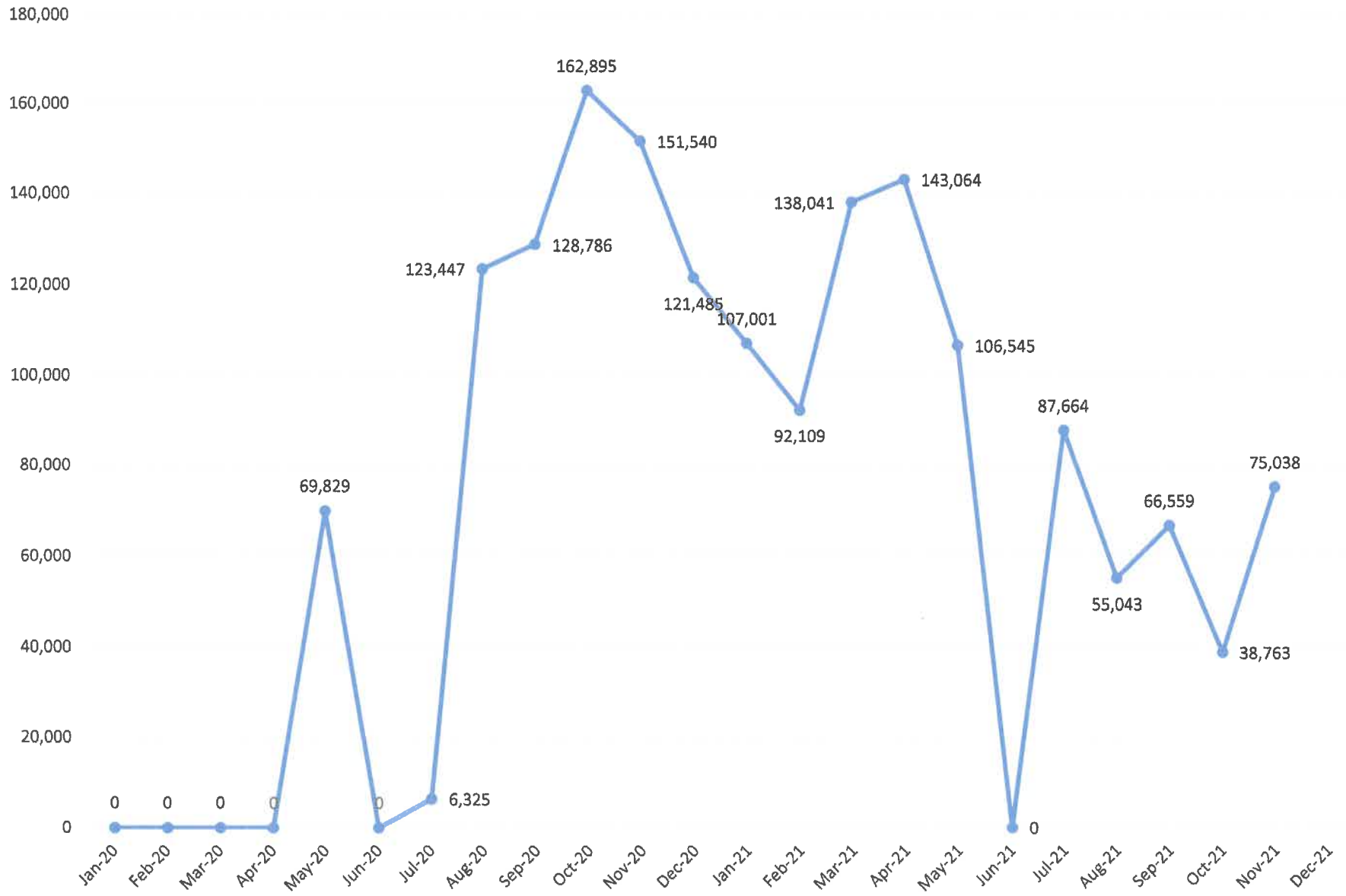
Micro-Turbine November Production

75,037 KWH

909,826 KWH for 2021



2020-2021 Micro-turbine production Total Production = 1,674,132 KWH



2021 Plant Mercury

Date	Result Bing INF Mercury ng/L	Result Bing INF Mercury ng/L Blank	Result JC INF Mercury ng/L	Result JC INF Mercury ng/L Blank	Result Effluent Mercury ng/L	Result Effluent Mercury ng/L Blank	Rep Limit ng/L
January	N.S.	N.S.	N.S.	N.S.	0.785	<0.231	0.500
February	N.S.	N.S.	N.S.	N.S.	0.632	<0.231	0.500
March	11.6	<0.231	7.09	<0.231 / 0.500 RL	0.745	<0.231	0.500
April	179	<0.231	5.4	<0.231 / 0.500 RL	0.500	<0.231	0.500
May	7.21	<0.231	8.02	<0.231 / 0.500 RL	0.500	<0.231	0.500
June	11.9	<0.232	3.18	<0.231 / 0.500 RL	0.500	<0.231	0.500
July							0.500
August	15.4	1.11	10.9	<0.231 / 0.500 RL	0.500	<0.231	0.500
September	99.6	<0.232	31.6	<0.231 / 0.500 RL	0.500	<0.231	0.500
October	23.1	<0.231	29	<0.231 / 0.500 RL	0.500	<0.231	0.500
November	10.8	<0.231	51.9	<0.231 / 0.500 RL	0.500	0.500	0.500
December							0.500
Average in ng/L	44.83	1.11	18.39		0.566	0.500	0.500

Effluent Limit = Daily Max 50ng/L and 12 Month Rolling AVG = 24ng/L

Method: EPA 1631E

Metals testing performed by Microbac Laboratories

N.S.= Did not sample Influent Mercury in January or February 2021

Microbac states all bottles were received with broken tops in July. Letter sent to Valarie Ellis NYSDEC

2021 Digester Filter Cake Mercury Results

Date	mg/kg	Rep Limit	
January	<0.896	0.806	mg/kg
February	<0.806	0.806	mg/kg
March	<0.954	0.954	mg/kg
April	<0.857	0.857	mg/kg
May	<0.906	0.906	mg/kg
June	<0.869	0.869	mg/kg
July	<0.861	0.861	mg/kg
August	<0.861	0.861	mg/kg
September	<0.861	0.861	mg/kg
October	<0.692	0.692	mg/kg
November	<0.847	0.847	mg/kg
December			mg/kg
Average		0.847	mg/kg

EPA Method 7471A Dry
Metals testing performed by: Microbac Laboratories