Hooksett Sewer Commission
Meeting Minutes
May 5, 2020

This meeting was called to order at 12:00pm. Present were Chairman Sidney Baines, Commissioner Frank Kotowski, Commissioner Richard Bairam, Superintendent Bruce Kudrick, Superintendent Ken Conaty, Assistant Superintendent John Clark and (by remote access) Guy Beloin.

Approve and Sign Manifest

Read Correspondence

Approve Minutes: Commissioner Richard Bairam made motion to approve the workshop and regular meeting minutes from March 17, 2020. Commissioner Frank Kotowski second. All in favor, the motion was carried unanimously.

Financial Report: From remote access Guy gave a brief overview of the Sewer Commission accounts.

- Commissioner Frank Kotowski made motion to transfer $3,768.00 from the Hooksett Sewer Commission Plant and Composting account to the Hooksett Sewer Commission checking account (unreimbursed balance as of March 31, 2020 for Route 3A Sewer line extension.)Commissioner Richard Bairam seconded. All in favor, the motion was carried unanimously.

- Commissioner Richard Bairam made motion to transfer $1,494,920.00 from the Hooksett Sewer Commission Plant and Composting account to the Hooksett Sewer Commission checking account (renewable energy system installation project). Commissioner Frank Kotowski seconded. All in favor, the motion was carried unanimously.

- Commissioner Frank Kotowski made motion to transfer $3000.00 from the Hooksett Sewer Commission checking account to the Hooksett sewer commission property enhancements account (Old Castle rent collected from January to March 2020).Commissioner Richard Bairam seconded. All in favor, the motion was carried unanimously.

- Commissioner Richard Bairam made motion to transfer $450.00 from the Hooksett Sewer Commission Property Enhancements account to the Hooksett Sewer Commission checking account (reimbursed balance as of March 31, 2020 for S&H Land clearing). Commissioner Frank Kotowski seconded. All in favor, the motion was carried unanimously.

Scheduled Appointments: 12:15 Shaun Vando from TF Moran **RE: Starbucks Project**

Starbucks: Went over the sight plans for the new Starbucks. The issue at hand is finding out how much sewer capacity the Starbucks is going to need. If information from an identical Starbucks could be submitted to the Sewer Commission, they would go off of those numbers. If that information cannot be provided than the Sewer Commission uses an estimate of two years from the prior business to determine the sewer capacity needed. Shaun said that they will try to get that information and submit it to the sewer commission. Discussion was had regarding an old agreement that was written for trade of an easement for that property and what affect that has on the property currently. The parties involved agreed to meet again to discuss the developments and or progress made with this situation.

Superintendent's Report:

Land Prep: All of the metal from the property behind the sewer commission office has been cleared out and Advanced paving came in and removed all of the tree stumps.

Richardson Electric: Richardson electric did a thorough evaluation of the electrical at the plant and pump stations. A few switches and a breaker need to be replaced.

Loader: Bruce had the loader maintenance

Cleaning and TV of sewer lines: The yearly cleaning and inspection of the sewer lines was done. A leak was found on Riverside road by the village fire station. Bruce had advanced paving raise a sewer man hole that was 2ft under the pavement and also had them replace near route 3 that had been hit. Bruce had Duke's Root Control clean out roots that were found while inspecting the sewer lines on Sherwood drive.

Brox: Brox has been using about .350 gallons per day. They had a problem with the flow meter on a float switch and are down to about .074 gallons per day.

Plant: More disks had to be added into the IFAS Tank down at the plant. It is up to 35% from 30%. A flow test was performed and the paperwork regarding the test is attached to the minutes.

Kmart Pump Station: The Kmart pump station had a check valve break and pump #2 lost a barring. Bruce ordered a new pump back in October. The pump check valve is over 46 years old. The new pumps will be put in this week.

State Stimulus money: Superintendent Conaty applied for a state program for stimulus money toward future projects. All the necessary paperwork was filled out and sent to the NHDES. $250,000 for the Main street pump station, $4.5 million for Phase 3A, $1.5 million for the solar project and $100,000 for the chlorination system.

Waste Pump: There was an issue with the waste pump down at the plant loosing prime. This was resulting in staff being called to come in and re-prime the pump. Foam in the clarifier was the reason the

pump was losing prime. A water sprayer had to be put out to knock down the foam this is going to result in the plants water bill being higher than normal. As the mass gets lowered in the system the foam should go away.

FEMMA: Superintendent Conaty gathered all the receipts that the plant and office had for cleaning supplies bought due to COVID-19. There is an opportunity for these expenses to be reimbursed.

Easements: Letters regarding easements were sent out to Village Water and the American Legion. Superintendent Conaty spoke with Village Water and they said they will rewrite the easement to make it a utility easement for both the water and sewer.

Time Sheets: Superintendent Conaty showed and explained the new time sheets that will be implemented at the plant.

Tablets: Superintendent Conaty showed the sewer commission the new set up for inspections that can be found on the tablets using the asset management program. Superintendent Conaty would like to purchase another tablet and chrome book for use at the plant.

Manchester Sand and Gravel: Superintendent Kudrick and a member of Manchester Sand and Gravel walked the property and found three out of the four boundary markers of the land leased to Old Castle. Discussion was had about clearing about a half acre more of the land for potential use.

Selling Equipment: Superintendent Conaty has been researching Government sights that are available to sell some of the unused sewer equipment being stored at the plant and within the sewer commission office basement.

COVID-19: Superintendent Conaty asked the board for clarification for COVID childcare prior to April 1, 2020. The board stated they would honor their discussion of coverage, at 100% for two weeks only, prior to knowing about the FFRCA.

Cell Phones: Superintendent Kudrick has a work issued cell phone. With his pending retirement discussion was had about him keeping the phone number associated with the phone. The Sewer Commission was ok with him having the number transferred over to his own personal account, if possible. He will turn in the work issued cell phone on his last day of employment. Superintendent Conaty would prefer to us his personal cell phone as his work phone and the possibility of a stipend for his cell phone was discussed.

Old Business: None

New Business: The next Sewer Commission meeting will be on May 19, 2020.

Non-Public Session: The Sewer Commission did not go into non-public session

Public Input: None

Adjournment: Commissioner Frank Kotowski made motion to adjourn at 3:00pm. Commissioner Richard Bairam seconded. All in favor, the motion was carried unanimously.

Respectfully submitted,

Frank Kotowski

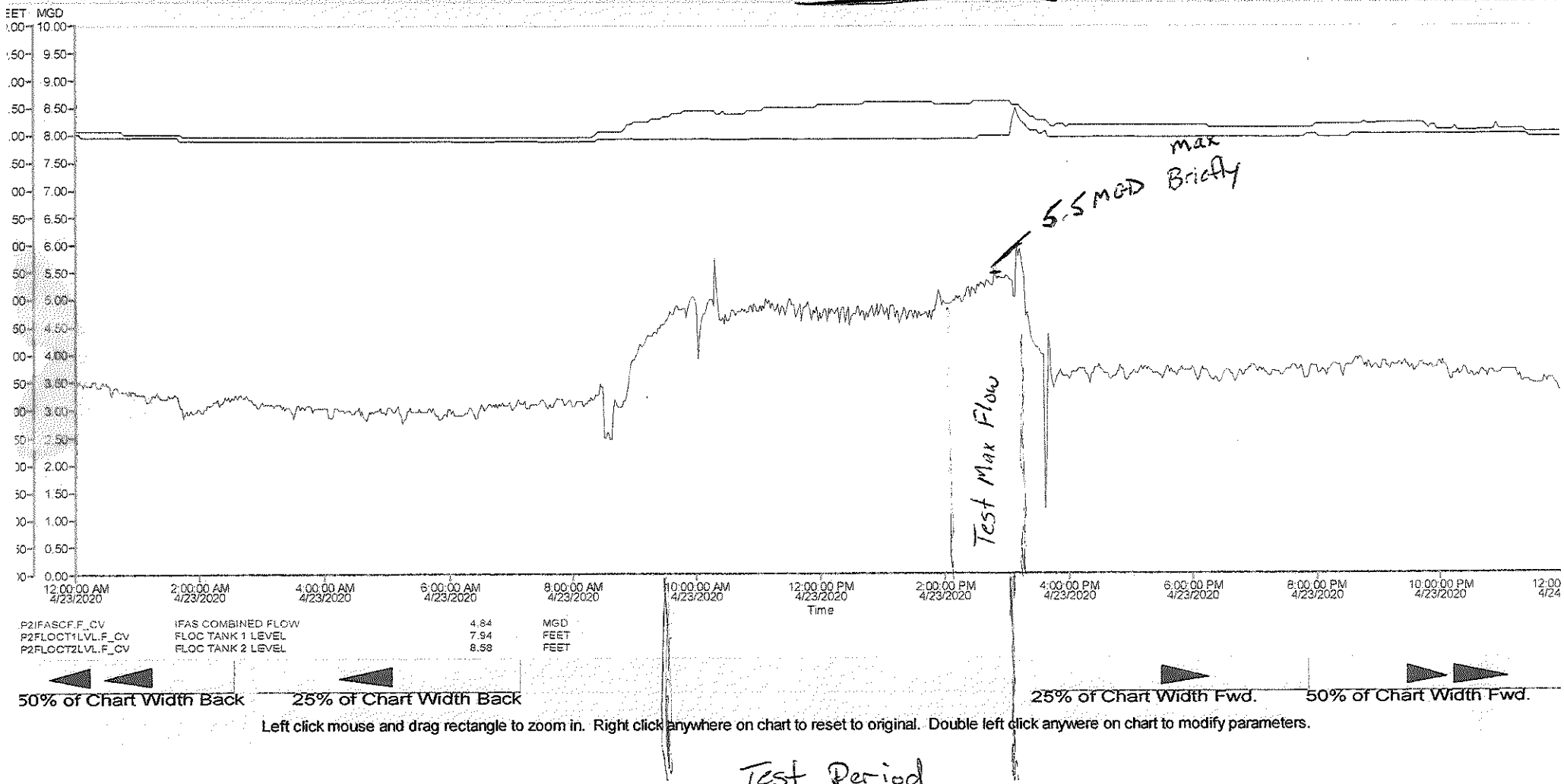
Frank Kotowski
Clerk

Close

FLOC TANK LEVEL AND IFAS FLOW 24-Hr

Alarms

3:09:08 PM
5/4/2020



P2IFASCF.F_CV	IFAS COMBINED FLOW	4.84	MGD
P2FLOCT1LVL.F_CV	FLOC TANK 1 LEVEL	7.94	FEET
P2FLOCT2LVL.F_CV	FLOC TANK 2 LEVEL	8.58	FEET

50% of Chart Width Back | 25% of Chart Width Back | 25% of Chart Width Fwd. | 50% of Chart Width Fwd.

Left click mouse and drag rectangle to zoom in. Right click anywhere on chart to reset to original. Double left click anywere on chart to modify parameters.

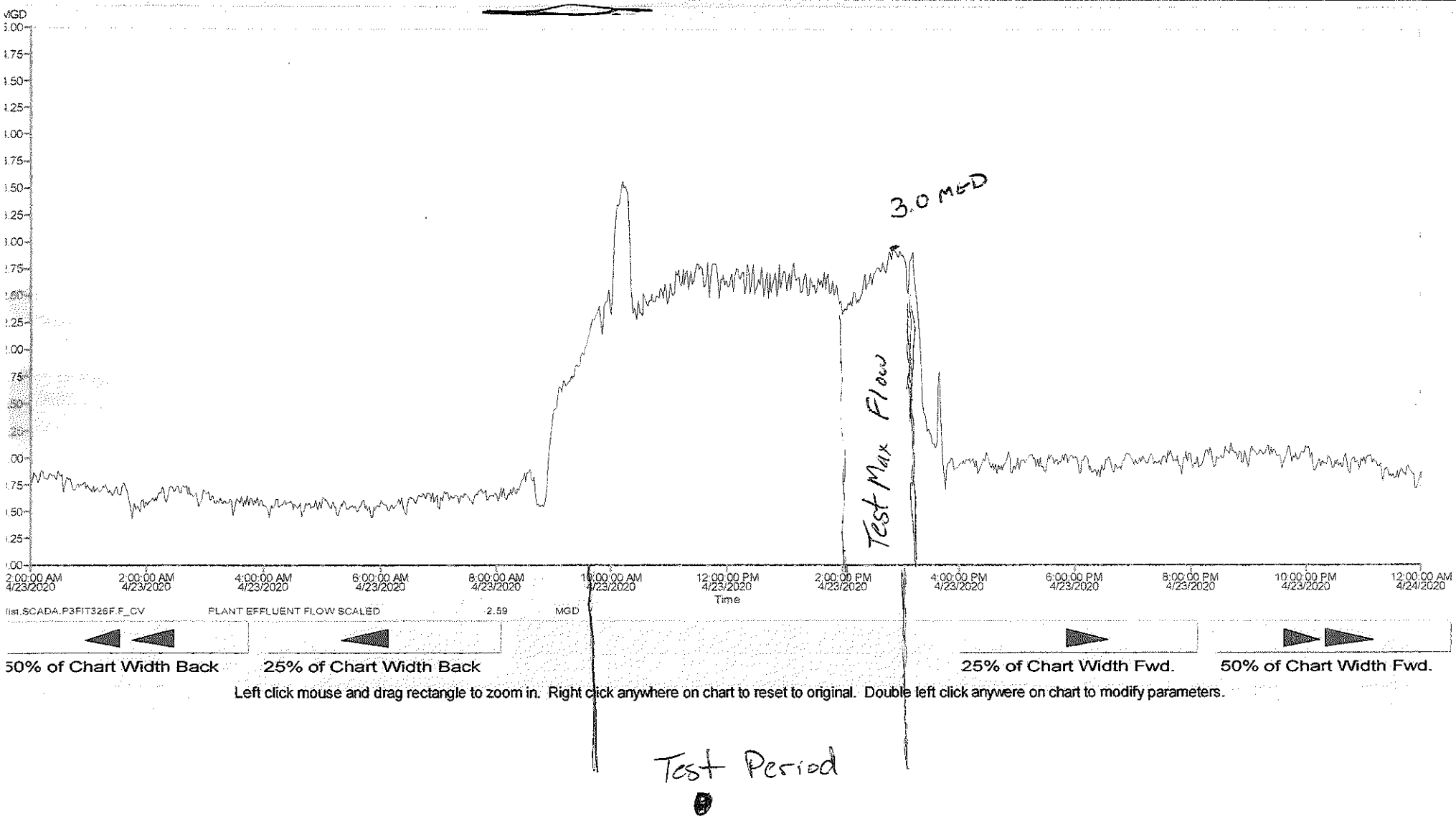
Test Period

Close

Effluent Flow 24-Hr

Alarms

3:06:34 PM
5/4/2020



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Left click mouse and drag rectangle to zoom in. Right click anywhere on chart to reset to original. Double left click anywere on chart to modify parameters.

Test Period

Sample taken during IFAS Flow Test

B.O.D. 5 Bench Sheet NPDES Analysis 2020

INFLUENT (sample point G)

Sample Date: 4.23.20
Time: 830 am/pm
Sampler: LL

Setup Date: 4.24.20
Time: 8:40 am/pm
Analyst: ST

EFFLUENT (sample point H)

Sample Date: 4.23.20
Time: 835 am/pm
Sampler: LL

Setup Date: 4.24.20
Time: 8:40 am/pm
Analyst: ST

Incubator Temp. (in Celsius to the tenth)

Start: 20.0
Finish: 20.0

Time In: 9:35 am/pm
Time Out: 8:00 am/pm
Date Read: 4.29.20
Analyst: ST

pH of Dilution Water: 7.07
Influent pH: 7.20
Effluent pH: 7.22

BOD mg/l :

$$\frac{\text{Initial D.O.} - \text{Final D.O.} \times 300}{\text{Sample Size}}$$

BOD Removal % :

$$\frac{\text{BOD Inf} - \text{BOD Eff} \times 100}{\text{BOD Inf}}$$

Calculations

3.9/100 = .039 x 10 = .39 (.4)

Typically read on **Wednesdays**

SAMPLE	BOTTLE #	SAMPLE SIZE	INITIAL D.O.	FINAL D.O.		DEPLETION	BOD mg/l
Blank	10	300 mls	9.1	8.9		.2	H L (OK)
Blank	11	300 mls	9.1	8.9		.2	H L (OK)
Effluent	12	75 mls.	9.2	6.8		2.4	10
Effluent	13	100 mls.	9.3	5.4	*	3.9	12
Effluent	14	125 mls.	9.3	5.4		3.9	9
		mls.					
		mls.					
Effluent Dup.	15	100 mls.	9.3	5.3		4.0	12
Influent	16	3 mls.	9.3	6.2		3.1	310
Influent	17	5 mls.	9.3	4.6		4.7	282
Influent	18	7 mls.	9.3	2.3		7.0	300
*Standard/Seed	19	10 mls. Eff. 6 mls. Standard	9.4	4.1		5.3/4.9	** 245
							139 - 257
							Valid (yes/no)
					Seed Corection:	.4	

RESULTS

Influent BOD :	297
Effluent BOD :	10
Removal % :	97%

Effluent Daily Max : 50

D.O. depletion needs to be at least **2.0** from the initial D.O. and/or have at least **1.0** remaining. If not, that dilution can not be used in calculation.

Standard/Seed:** Find depletion of Eff that depleted 40%-70%(Depletion/Initial D.O.) /sample size x 10 mls. of Eff. in standard = ***Seed Corection

****Standard Calculation** : [(Depletion of standard-seed correction)] x 300 / 6mls. of Universal Wastewater Standard

***** Influent and Effluent samples are taken from 24hr. composite samplers

Method 5210B - 2011

Updated July 2018

DEPARTMENT OF ENVIRONMENTAL SERVICES
WATER DIVISION
WASTEWATER ENGINEERING BUREAU
PERMITS & COMPLIANCE SECTION
P.O. BOX 95
CONCORD, NEW HAMPSHIRE 03301

HOOKSETT TREATMENT FACILITY
Permit # NH0100129
CHIEF OPERATOR: BRUCE KUDRICK
MONTH- *April* YEAR- 2019

DATE	Day of Week	Rain/ Snow Inches	Wastewater Flow MGD Influent	Effluent	Min	Max	D.O. mg/l EFF	pH SU INF	pH SU EFF	Cl AM mg/l	Cl gals.	PAC gals.	Cu DIS ug/l	Brox Flow MGD	Total Flow To River MGD	Nutrients mg/l T.P.	AL	AS	lb/Day NH3
	S														0.000				
1	M	0		0.819	0.351	1.737	3.9	7.88	7.03	0.6	18	17.0			0.819				
2	TU	0.1		0.726	0.308	1.816	3.8	8.07	7	0.5	15	22.0			0.726				
3	W	0		0.759	0.314	1.459	3.4	8.1	7.01	0.53	16	15.0			0.759				
4	T	0		0.694	0.287	1.175	3.6	8.29	7.09	0.8	17	19.0			0.694				
5	F	0		0.720	0.269	1.496	3.9	8.23	7.07	0.81	18	18.0			0.720				
6	S	0		0.700	0.293	1.334	3.4	7.32	7.06	0.29	16	10.0			0.700				
7	S	0.2		0.715	0.259	1.270	3.5	7.32	7.20	0.25	16	22.0			0.715				
8	M	0.1		0.770	0.284	1.658	3.6	7.94	7.04	0.62	17	20.0		0.278	0.492				
9	T	0.2		0.704	0.305	1.288	3.4	7.97	7.01	0.48	18	14.0		0.296	0.408				
10	W	0		0.753	0.253	1.621	3.3	7.89	7.09	0.50	5	22.0		0.290	0.463				
11	T	0		0.993	0.290	3.437	3.1	7.95	7.02	0.55	22	17.0		0.284	0.709				
12	F	0.1		0.720	0.256	1.529	4.1	7.78	7.08	0.73	14	17.0		0.271	0.449				
13	S	0.1		0.721	0.281	1.349	3.7	7.51	7.17	0.33	16	16.0		0.279	0.442				
14	S	0.5		0.707	0.259	1.267	3.6	7.62	7.11	0.27	16	12.0		0.279	0.428				
15	M	0.1		0.839	0.290	1.679	2.9	7.77	7.01	0.55	18	21.0		0.292	0.547				
16	T	0		0.778	0.299	1.770	3.2	8.03	7.03	0.52	18	19.0		0.283	0.495				
17	W	0		0.751	0.195	1.914	2.4	8.20	7.17	0.61	17	21.0		0.283	0.468				
18	T	0		0.793	0.195	2.002	3.2	7.80	6.98	0.75	19	15.0		0.000	0.793				
19	F	0.1		0.721	0.241	1.499	3.0	7.88	7.09	0.47	18	14.0		0.283	0.438				
20	S	0.6		0.756	0.269	1.444	3.3	7.24	7.11	0.68	18	16.0		0.000	0.756				
21	S	0		0.730	0.223	1.819	3.3	7.12	7.01	0.85	19	15.0		0.002	0.728				
22	M	0.7		0.835	0.183	2.179	4.0	7.56	7.03	0.95	17	22.0		0.085	0.750				
23	T	0.1		0.833	0.293	1.801	3.4	7.77	7.05	0.80	13	20.0		0.003	0.830				
24	W	0		0.819	0.253	1.862	2.2	7.92	7.03	0.63	13	22.0		0.081	0.738				
25	T	0		0.848	0.229	2.128	3.6	7.69	7.08	0.78	17	17.0		0.077	0.771				
26	F	2.1		0.875	0.198	2.051	2.2	7.84	7.05	0.73	15	26.0		0.003	0.872				
27	S	0.1		1.283	0.614	2.231	2.3	7.20	6.99	0.52	21	29.0		0.000	1.283				
28	S	0		1.086	0.446	2.024	2.7	7.33	6.95	0.69	22	26.0		0.000	1.086				
29	M	0.1		1.026	0.385	2.137	3.8	7.68	6.94	0.69	16	30.0		0.000	1.026				
30	T	0		0.913	0.357	2.088	3.8	7.82	6.94	0.62	11	14.0		0.000	0.913				
	W														0.000				
	T														0.000				
	F														0.000				
	S														0.000				
	S														0.000				
															0.000				
															0.000				
															0.000				
	Total	5.2	0.000	24.387								496	568		3.369	21.018			
	Avg.	0.2	#DIV/0!	0.813		Avg.	3.32			0.55		16.5	18.9		0.146	0.701	#####	#####	#####	#####
	Min		0.000	0.694		Min	2.20	7.12	6.94								0.0	0.0	0.00	0.0
	Max		0.000	1.283		Max	4.10	8.29	7.20	0.95		22.0	30.0	0.0	0.296	1.283	0.0	0.0	0.00	0.0

DEPARTMENT OF ENVIRONMENTAL SERVICES
WATER DIVISION
WASTEWATER ENGINEERING BUREAU
PERMITS & COMPLIANCE SECTION
P.O. BOX 95
CONCORD, NEW HAMPSHIRE 03301

HOOKSETT TREATMENT FACILITY
Permit # NH0100129
CHIEF OPERATOR: BRUCE KUDRICK
Month- April *Year-* 2019

DATE	Day of Week	E-coli #/100 Eff	TSS mg/l Inf	TSS mg/l Eff	TSS Wkly Avg Eff	TSS Lbs/Day Inf	TSS Lbs/Day Eff	TSS Wkly Avg Eff	BOD mg/l Inf	BOD mg/l Eff	BOD Wkly Avg Eff	BOD Lbs/Day Inf	BOD Lbs/Day Eff	BOD Wkly Avg Eff
	S													
1	M	1										1422.9	187.7	
2	TU	149.7	190	27		1150.4	163.5		235	31				
3	W	31.5										1470.1	121.5	
4	T		198	16		1146.0	92.6		254	21				
5	F										26.0			154.6
6	S				21.5			128.0						
7	S													
8	M	3.1										826.9	95.3	
9	T	4.1	223	30		758.8	102.1		243	28				
10	W											1673.4	159.7	
11	T	19.7	265	32		1567.0	189.2		283	27				
12	F										27.5			127.5
13	S				31.0			145.6						
14	S													
15	M	39.3										862.8	115.6	
16	T	7.3	158	27		652.3	111.5		209	28				
17	W	1.0										1732.8	205.0	
18	T		218	28		1441.8	185.2		262	31				
19	F										29.5			160.3
20	S				27.5			148.3						
21	S													
22	M	1.0										1052.2	200.7	
23	T	1.0	100	16		692.2	110.8		152	29				
24	W	1.0										964.5	192.9	
25	T		116	19		745.9	122.2		150	30				
26	F										29.5			196.8
27	S				17.5			116.5						
28	S													
29	M	1.0										1241.2	312.2	
30	T	1.0	134	26		1020.3	198.0		163	41				
	W													
	T													
	F										41.0			312.2
	S				26.0			198.0						
	S													
Total			1602.0	221.0		9175	1275		Total	1951.0	266.0		11247	1590.6	
Avg.			178.0	24.6		1019	141.7		Avg.	216.8	29.6		1249.6	176.7	
Min	1.0					652.3	92.6				Min 21.0		826.9	95.3	
Max	149.7			32.0	31.0	1567.0	198.0	148.3			Max 41.0	29.5	1732.8	312.2	196.8
Geo-mean	4.1					% Removal	86						% Removal	86	

Signature: Date:

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WATER DIVISION
WASTEWATER ENGINEERING BUREAU
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PAGE 1 OF 2

HOOKSETT TREATMENT FACILITY
Permit #
CHIEF OPERATOR: BRUCE KUDRICK
MONTH- APRIL *YEAR-* 2020

DATE	Day of Week	Rain/ Snow Inches	Wastewater Flow MGD Influent	Effluent	Min	Max	D.O. mg/l EFF	pH SU INF	EFF	Cl AM mg/l	gals.	PAC gals.	MAG gals.	Brox Flow MGD	Total Flow To River MGD	Nutrients mg/l T.P.	AL	AS	Lb/Day NH3
	S														0.000				
	M														0.000				
31	TU			0.781	0.452	1.874	4.8	7.76	6.49	0.50	15	27	10	0.382	0.399				
1	W	0		0.765	0.412	1.285	5.1	7.82	6.62	0.56	16	32	52	0.370	0.395				
2	T	0.9		0.820	0.449	2.244	5.1	7.55	6.48	0.59	17	24	37	0.382	0.438				
3	F	0.2		0.869	0.452	1.392	4.9	7.63	6.53	0.64	20	28	22	0.374	0.495				
4	S	0		0.879	0.543	1.484	3.4	7.61	6.72	0.37	16	26	35	0.321	0.558				
5	S	0		0.840	0.443	1.496	4.1	7.69	6.74	0.44	18	36	37	0.372	0.468				
6	M	0		0.860	0.467	2.494	4.2	7.53	6.66	0.59	16	28	33	0.384	0.476				
7	T	0		0.773	0.382	1.951	4.1	7.75	6.86	0.54	19	29	32	0.386	0.387				
8	W	0		0.863	0.467	2.250	4.6	7.74	6.71	0.66	18	34	33	0.379	0.484				
9	T	1		0.838	0.427	1.462	5.0	7.84	6.82	0.50	23	33	37	0.382	0.456				
10	F	0.1		0.962	0.522	2.186	4.7	7.63	6.77	0.96	18	25	27	0.401	0.561				
11	S	0		0.865	0.290	1.761	3.4	7.30	6.62	0.47	16	25	21	0.378	0.487				
12	S	0.1		0.813	0.027	1.517	3.1	7.08	6.93	0.48	14	25	51	0.342	0.471				
13	M	1.1		0.990	0.397	1.987	4.7	7.51	6.78	0.66	15	36	33	0.349	0.641				
14	T	0		1.007	0.684	2.118	4.4	7.63	6.78	0.69	18	31	32	0.358	0.649				
15	W	0		0.931	0.589	2.137	4.3	7.62	6.64	0.89	14	35	36	0.348	0.583				
16	T	0		0.959	0.543	2.332	4.5	7.55	6.66	0.50	12	33	36	0.344	0.615				
17	F	0.1		0.825	0.427	2.045	4.2	7.64	6.67	0.77	10	39	23	0.271	0.554				
18	S	0		0.816	0.321	1.676	2.8	7.12	6.73	0.99	12	25	44	0.348	0.468				
19	S	0		0.812	0.360	1.493	3.0	7.10	6.81	0.89	9	32	34	0.380	0.432				
20	M	0		0.849	0.400	2.231	4.3	7.66	6.87	0.64	9	35	45	0.380	0.469				
21	T	0.4		0.766	0.330	1.291	4.9	7.62	6.75	0.63	10	29	33	0.374	0.392				
22	W	0		0.804	0.409	1.770	4.7	7.77	6.75	0.69	10	37	27	0.374	0.430				
23	T	0		1.087	0.372	3.690	4.7	7.71	6.94	0.98	11	30	48	0.214	0.873				
24	F	0		0.775	0.348	1.740	5.0	7.74	6.84	0.59	9	30	12	0.374	0.401				
25	S	0		0.699	0.238	1.273	4.1	7.13	6.88	0.77	10	35	57	0.374	0.325				
26	S	0.3		0.695	0.134	1.279	4.0	7.12	6.81	0.85	9	31	42	0.374	0.321				
27	M	0.4		0.802	0.266	2.134	5.2	7.69	6.94	0.53	9	34	41	0.073	0.729				
28	T	0		0.748	0.385	1.178	4.8	7.76	6.93	0.59	9	32	15	0.071	0.677				
29	W	0		0.790	0.348	1.676	5.1	7.70	6.79	0.59	7	31	38	0.062	0.728				
30	T	0.8		0.729	0.363	1.371	4.7	7.80	6.80	0.56	10	58	38	0.072	0.657				
	F														0.000				
	S														0.000				
	S														0.000				
															0.000				
															0.000				
															0.000				
	Total	5.4	0.000	24.466								402	926		9.241	15.225			
	Avg.	0.2	#DIV/0!	0.844	Avg.	4.34			0.63			13.4	31.9		0.319	0.508	#####	#####	#####	#####
	Min		0.000	0.695	Min	2.80	7.08	6.48									0.0	0.0	0.00	0.0
	Max		0.000	1.087	Max	5.20	7.84	6.94	0.99			23.0	58.0		0.401	0.873	0.0	0.0	0.00	0.0

DEPARTMENT OF ENVIRONMENTAL SERVICES
WATER DIVISION
WASTEWATER ENGINEERING BUREAU
PERMITS & COMPLIANCE SECTION
P.O. BOX 95
CONCORD, NEW HAMPSHIRE 03301

HOOKSETT TREATMENT FACILITY
Permit # NH0100129
CHIEF OPERATOR: BRUCE KUDRICK
Month- APRIL *Year-* 2020

DATE	Day of Week	E-coli #/100 Eff	TSS mg/l Inf	TSS mg/l Eff	TSS Wkly Avg Eff	TSS Lbs/Day Inf	TSS Lbs/Day Eff	TSS Wkly Avg Eff	BOD mg/l Inf	BOD mg/l Eff	BOD Wkly Avg Eff	BOD Lbs/Day Inf	BOD Lbs/Day Eff	BOD Wkly Avg Eff
	S													
	M											768.7	49.9	
31	TU	1.0	166	18		552.4	59.9		231	15				
1	W	1.0										781.7	51.1	
2	T		178	17		650.2	62.1		214	14				
3	F										14.5			50.5
4	S				17.5			61.0						
5	S													
6	M	1.0										713.3	45.2	
7	T	1.0	167	16		539.0	51.6		221	14				
8	W	10.2										741.6	57.0	
9	T		173	20		657.9	76.1		195	15				
10	F										14.5			51.1
11	S				18.0			63.9						
12	S													
13	M	3.1										990.5	43.3	
14	T	1.0	169	8		914.7	43.3		183	8				
15	W	1.0										1272.0	51.3	
16	T		151	14		774.5	71.8		248	10				
17	F										9.0			47.3
18	S				11.0			57.6						
19	S													
20	M	9.2										755.2	29.4	
21	T	7.1	178	11		581.9	36.0		231	9				
22	W	3.0										2162.4	72.8	
23	T		258	12		1878.5	87.4		297	10				
24	F										9.5			51.1
25	S				11.5			61.7						
26	S													
27	M	13.1										1366.4	56.5	
28	T	13.5	187	6		1055.8	33.9		242	10				
29	W	10.9												
30	T		231	14		1265.7	76.7							
	F										10.0			56.5
	S				10.0			55.3						
	S													
Total			1692.0	118.0		8318	538.8		Total 1831.0	90.0		8783	406.7	
Avg.			188.0	13.1		924.3	59.9		Avg. 228.9	11.3		1097.9	50.8	
Min	1.0					539.0	33.9			Min 8.0		713.3	29.4	
Max	13.5			20.0	18.0	1878.5	87.4	63.9		Max 15.0	14.5	2162.4	72.8	51.1
Geo-mean	3.5					% Removal	93					% Removal	95	

Signature: Date: