

City of Stevens Point
Board of Water and Sewerage Commissioners
August 10, 2020 - 12:00 PM

Meeting will be held via a Zoom Meeting URL to connect:
<https://us02web.zoom.us/j/82026885705> Dial in number: (301) 715-8592 - Meeting
ID: 820 2688 5705

AGENDA

Discussion and Possible Action on:

1. Approval of July 13, 2020 minutes
2. Approval of Department Claims
3. Water Supply and Distribution Reports - *Eric Southworth*
4. Report on Well 11.
5. Sewage Treatment Operations Report - *Chris Lefebvre*
6. Collection System Maintenance Report - Craig Czaikowski
7. Stormwater Operations - Craig Czaikowski
8. Community Area Network Report - Joel Lemke
9. Directors Report - Joel Lemke
10. Adjournment

The next Water and Sewerage Commission meeting will be Monday, September 14, 2020 at noon.

Any person who has special needs while attending this meeting or needing agenda materials for this meeting should contact the Director as soon as possible to ensure a reasonable accommodation can be made. The Director can be reached by telephone at (715) 345-5260, or by mail at 300 Bliss Avenue, P.O. Box 243 Stevens Point, WI.

Copies of resolutions, reports and minutes of the Board of Water & Sewerage Commission Meetings are on file at the Admin Office of the Water & Sewage Departments for inspection during normal business hours from 7:30 A.M. to 4:00 P.M.

City of Stevens Point
Board of Water and Sewerage Commissioners
July 13, 2020 - 12:00 PM

Meeting will be held via a Zoom Meeting URL to connect:
<https://us02web.zoom.us/j/82026885705> Dial in number: (301) 715-8592 - Meeting
ID: 820 2688 5705

MINUTES

Discussion and Possible Action on:

1. Approval of June 8, 2020 minutes

Motion made by Carl Rassmussen, seconded by Ray Schmidt to approve the minutes of the June 8, meeting of the Board of Water & Sewerage Commission.

Ayes all. Nays none. Motion carried.

2. Approval of Department Claims

Motion made by Anna Haines, seconded by Mae Nachman to approve the department claims for the month of June 2020 as audited and read.

Ayes all. Nays none. Motion carried.

3. Water Supply and Distribution Reports - *Eric Southworth*

Eric stated pumpage was almost identical to June of 2019.

Eric also stated he met with a different roofing contractor that was recommended by a separate engineering firm last week at Well 11. The contractor is putting together what he found and what he recommends.

The Fremont Street project is in full swing, they are pouring curb and gutter on Fremont St. Utilities are complete on Fremont and Fourth Avenue to the north. They are installing water main on Illinois. They are ahead of schedule and should be complete with the utilities by early to mid-August.

4. Sewage Treatment Operations Report - *Chris Lefebvre*

Chris stated the WWTP met all permit requirements for the month of June. The projects are all coming to a close. We have to get the roof onto the existing digester complex and that should be completed by July 24th.

Paul asked if the biogas generator is running. The biogas generator is at 50% right now. The Commission would like to know when the generator is running at 100%.

They do have the lab data in regards to odor control. The data has been given to a couple different vendors that specialize in odor control to see what we might need.

5. Collection System Maintenance Report - *Craig Czaikowski*

Craig stated everything is going fine. They are working on repairs to manholes.

6. Stormwater Operations - *Craig Czaikowski*

Craig stated they had to wait for the Echo Dells lift station to be completed in order to work on stormwater projects they need to get done there. There is also another project on the West side. The crew is currently staying very busy repairing sanitary manholes.

7. Community Area Network Report - *Joel Lemke*

Joel stated the conduit was installed for the school district project and now they are working on installing fiber through the conduit. They will have to do work inside the buildings as well.

8. Approval of an estimate for pipe work at the Industrial Park Lift Station- *Chris Lefebvre/Joel Lemke*

Chris stated that Lift Station 1 was rebuilt in 2010 but they only did the pumps and controls and did not change out piping and valves. The pumps need to be pulled and rebuilt. The valves need to hold in order to do that. The valves are not holding. The six replacement valves can be purchased for less than \$10,000 and the lowest quote we have received for the removal and installation of the valves and associated piping is \$6,750. Chris is requesting the Commission approve the replacement of the valves and associated piping at our Industrial Park Drive Liftstation #1 at a price not to exceed \$16,750.

Motion made by Ray Schmidt, seconded by Carl Rasmussen to approve the replacement of valves and associated piping at the Industrial Park Lift Station in an amount not to exceed \$16,750.00.

Ayes all. Nays none. Motion carried.

9. Approval of a proposal for the cost to upgrade server equipment -Joel Lemke

Joel explained this was brought to the Commission and approved awhile ago but nothing was done at that time. The City IT person received a quote from another company that ended up being \$8,000 cheaper than the other quotes.

We need to upgrade the servers to the current operating system and the newer versions would also keep us more secure as well.

Motion made by Mae Nachman, seconded by Ray Schmidt to approve the proposal from Heartland Business Systems to upgrade server equipment in an amount not to exceed \$11,053.76.

Ayes all. Nays none. Motion carried.

10. The reclassification of a Superintendent position and permission to promote from within the Department -Joel Lemke

Joel explained the request to reclassify the position of Collection System Superintendent to the modified position of Construction and Maintenance Superintendent. The new position description was given to the HR manager whom then submitted to the pay plan consultant. The previous position was a grade O. The consultant determined the appropriate rating of the new position to be grade S. The difference between these positions at step 1 of the plan is \$16,266 and at mid-range or step 6 it is \$18,616. This would be the budgetary impact, not including benefits.

There has been a lot of changes that the department has been through starting in 2008 when we took over the Collections System and in 2013 when the Stormwater Utility was created and now the fiber optic component (CAN) to it as well.

This realigns responsibilities among superintendents and this would put the new position on an even grade with the Water and Sewer superintendents.

It is the City's policy to promote from within whenever possible and Joel stated he has interested and qualified personnel on staff for this position.

Motion made by Ray Schmidt, seconded by Anna Haines to approve the reclassification of a Superintendent position and permission to promote from within the Department.

Ayes all. Nays none. Motion carried.

**11. Approval of the annual CMAR (Compliance Maintenance Annual Report) -
Chris Lefebvre**

The WWTP received a G.P.A. of 4.00 on the 2019 CMAR.

There was one response required due to the pressure system breaking in the Eagle Point Subdivision. The damaged sewer main was repaired. Maintenance and observations will continue to prevent future overflows.

Motion made by Carl Rasmussen, seconded by Mae Nachman to approve the 2019 Compliance Maintenance Annual Report.

Ayes all. Nays none. Motion carried.

12. The replacement of a hot water heater at the water treatment station on wellfield road - Eric Southworth

Eric stated the hot water heater at our water treatment station on Wellfield Road needs to be replaced. This is needed due to the requirement for eyewash stations and tepid water for an irrigation period of 15 minutes. Two quotes were received. Eric is requesting replacement of the hot water heater not to exceed \$7,951.00.

Motion made by Ray Schmidt, seconded by Carl Rasmussen to approve the replacement of the hot water heater at the water treatment station on wellfield road in an amount not exceed \$7,951.00.

Ayes all. Nays none. Motion carried.

13. Directors Report - Joel Lemke

Joel stated the office continues to run fine being closed to the public. Customers are getting used to it. They are continuing to use the night drop and make payments by phone or mail. Everyone has adapted really well. Staff whom have to use common meeting places have made the effort to maintain the proper social distancing. We will continue to operate this way until there would be solid evidence that something to the contrary would be appropriate.

14. Adjournment

Motion made by Ray Schmidt to adjourn the meeting.

Ayes all. Nays none. Motion carried.

Meeting Adjourned: 12:40PM

REPORT TO THE AUGUST, 2020
MEETING OF THE BOARD OF WATER AND SEWERAGE COMMISSIONERS

WATER DEPARTMENT

FINANCES:

Bank balance as of July 1, 2020

\$ 3,695,038.09

Bank deposits recorded in July 2020

\$ 1,367,147.45

\$ 5,062,185.54

CHECKS ISSUED JULY 2020:

54370	Community Foundation of Central WI	Employee Contribution	10.00
54371	United Way Of Portage County	United Way	7.00
54372	Water Department Payroll	Payroll	25,110.91
54373	AnSer	After hours answering service	96.00
54374	Aramark	Rug Service	21.22
54375	AT&T	Phone charges	375.79
54376	AT&T	Long distance phone charges	36.14
54377	Brinkman Fiberglass Pools	Refund pre-paid fill station balance	26.13
54378	Complete Office of WI	Cleaning products, office supplies	47.38
54379	Dolce Digital Imaging	CCR Mailing	662.18
54380	Excel Plumbing, Inc.	Repairs to internal plumbing - due to main damage 2509 Stanley	139.40
54381	Fastenal Company	Supplies	78.42
54382	Ferguson Waterworks #1476	Inventory	24,330.00
54383	First Supply LLC -Plover	Inventory	5,393.76
54384	Franks Hardware Co Inc	Supplies	305.98
54385	Hawkins Inc	Chemicals	2,615.93
54386	Northern Lake Services Inc	Samples	436.50
54387	Mastercard	Breakroom supplies	81.57
54388	Rasmussen Plumbing & Heating	Repairs to 717 Frederick St. manganese issue	516.40
54389	Sewage Department	Work completed for Water Dept	103.02
54390	Springbrook Holding Company LLC	Database merge fees	316.67
54391	Storm Water Dept	Work completed for Water Dept	1,092.95
54392	USA Blue Book	Lab supplies	258.54
54393	Verizon Wireless	IPad & Cell Phone Charges	453.98
54394	Water & Environmental Analysis Lab	Water Analysis	2,415.00
54395	WI Public Service	Partial Electric & Gas Utility Charges	780.72
54396	WI Shoring Rentals Inc	Submersible pump	507.31
54397	Wi State Laboratory of Hygiene	Fluoride sampling	52.00
54460	Sewage Department	A/R Sewage Charges	185,113.20
54461	Storm Water Dept	A/R Storm Water Chgs	59,019.10
54462	Perry Groshek	Refund overpayment to owner Perry Groshek	193.28
54463	Sewage Department	A/R Sewage Charges	213,318.04
54464	Storm Water Dept	A/R Storm Water Chgs	88,726.21
54465	Community Foundation of Central WI	Employee Contribution	10.00
54466	United Way Of Portage County	United Way	7.00
54467	Water Department Payroll	Payroll	24,831.91
54468	Advanced Disposal	Dumpster Service	275.16
54469	Airtite Environmental Services	Asbestos Inspection - Well 5	260.00
54470	Aramark	Rug service	24.79
54471	AT&T	Local phone charges	551.20
54472	City Of Stevens Point	Retirement, fuel & employee deductions	23,821.53
54473	Complete Office of WI	Disinfecting wipes	9.16
54474	Diggers Hotline Inc	Diggers Locate Charges	709.34
54475	Donna's Cleaning Service	Cleaning service - Utility garage & Water office	340.00
54476	Elexco	Fiber Optic -School District Pass Thru billing	392,379.07
54477	Fastenal Company	Supplies	170.08
54478	INFOSEND INC	Monthly statements - printing & postage	2,164.24
54479	Heather Kado	Refund overpayment - 1816 Halstad Drive	47.70
54480	L.W. Allen, LLC	Troubleshoot Well 11 Filter Alarm	1,564.86
54481	Multimedia Communications & Engineering Inc.	Fiber Pass Thru Billing	21,214.05
54482	Portage County Gazette	2 Year Subscription Renewal	99.00
54483	RMM Solutions Inc.	Managed services	45.13
54484	Rogan's Shoes	Boot allowance - Bob	110.00

54485	Sewage Department	Work completed for Water Dept.	229.47		
54486	Spectra Print	Disconnection Notice - Printing & Postage	282.00		
54487	Staples Credit Plan	Office supplies	136.08		
54488	Storm Water Dept	Work for Water Dept.	1,492.77		
54489	Strand Associates Inc	Professional Services - Well 4 Replacement	452.26		
54490	Teamsters Union Local 662	Union dues	784.00		
54491	Mastercard	Adobe software, vehicle mounting device for laptop	345.49		
54492	USA Blue Book	Filters	181.72		
54493	Water & Environmental Analysis Lab	Water samples	3,780.00		
54494	City Of Stevens Point	Workers Comp Premium	1,898.07		
54495	Complete Office of WI	100 - Face masks	65.00		
54496	Ferguson Waterworks #1476	Meter gaskets	325.00		
54497	Mada Embroidery	Uniforms - Jeff, Dan, Lance, Tony, Bob, Roger	207.94		
54498	Kristian Prideaux	Refund overpayment -717 Illinois	59.68		
54499	Storm Water Dept	School District Fiber Project	146,209.73		
54500	Sewage Department	A/R Sewage Charges	72,795.66		
54501	Storm Water Dept	A/R Storm Water Chgs	29,054.44		
	Payroll	7/23/2020	24,831.91		
	HRA	Administrative/Bank Maintenance Fees	70.00		
	IRS	Payroll Taxes	17,810.56		
	WI Dept of Revenue		3,675.49	\$	1,385,962.22
	TOTAL EXPENSES LISTED		\$ 1,385,962.22	\$	3,676,223.32
	BALANCE ON HAND JULY 31, 2020				
		Balance on Hand		\$	3,676,223.32
		Plus uncleared checks		\$	150,881.11
		Less checks previously written clearing this month		\$	(115,373.22)
		Ending Cash Balance matching Bank Statements		\$	3,711,731.21
		Less Restricted Funds		\$	(321,034.41)

REPORT TO THE AUGUST, 2020
MEETING OF THE BOARD OF WATER AND SEWERAGE COMMISSIONERS
SEWAGE DEPARTMENT

FINANCES:

Bank Balance as of July 1, 2020
Bank Deposits recorded in July 2020

\$	5,656,571.76
\$	543,158.89
\$	6,199,730.65

CHECKS ISSUED IN JULY 2020:

34609	Employee Wages	Salaries	647.47
34610	Aramark	Rug Service	148.19
34611	Cooper Oil Co., Inc.	Fuel, lubricants	579.53
34612	Diggers Hotline Inc	Diggers Locate Charges	177.33
34613	Donohue & Assoc Inc	Design & Bidding Services - Lift Station Project	9,499.98
34614	Franks Hardware Co Inc	Supplies	151.50
34615	Hach Company	Lab supplies	1,477.49
34616	Hawkins Inc	Chemicals - Azone	525.30
34617	Kraft Power	Bio Gas Generator Supplies	2,619.10
34618	LaBlanc's Southside Motors	Air filters	9.80
34619	Lou's Gloves, Inc.	Nitrile gloves	588.00
34620	Miron Construction Co., Inc.	Pay App 23 - Treatment Plant Upgrade	11,324.35
34621	Mulcahy Shaw Water Inc	HSW feed pump, UV lamp parts, Casing protection plant, radial casing line, sealing	10,906.04
34622	NCL of Wisconsin Inc	Lab supplies	2,720.86
34623	Northern Lake Services Inc	2nd Qtr Ammonia Samples	43.00
34624	Pace Analytical Services Inc	2nd Qtr Mercury Sampling	555.00
34625	Mastercard	Televising ink	24.99
34626	Pomp's Tire Service, Inc.	Replacement tire for lawn mower	48.99
34627	Springbrook Holding Company LLC	Database merge fees	316.67
34628	Storm Water Dept	Work completed for Collections Dept	1,333.77
34629	Transit Department	Lawn maintenance	183.20
34630	Unison Solutions Inc	Removal media	1,355.00
34631	USA Blue Book	Stirrer analog	156.66
34632	Verizon Wireless	IPad & Cell phone charges	301.99
34633	Water Dept	Work completed for Collections Dept	1,436.44
34634	Webster Environmental Associates Inc.	Odor Testing	8,958.00
34635	WI Public Service	Monthly Electric & Gas Utility Charges	19,388.09
34636	AFLAC	Insurance Premiums	26.50
34637	Airgas USA, LLC	Nitrogen	1,025.96
34638	Aramark	Rug service	169.83
34639	AT&T	Local phone charges	416.44
34640	Chet's Plumbing	Partial payment for replacement garage heater	11,488.00
34641	City Of Stevens Point	Retirement, fuel & employee deductions	12,018.11
34642	Donohue & Assoc Inc	Engineering Services- Digestion, Dewatering & Drying	10,239.68
34643	Environmental Consulting and Testing,	Sample testing	650.00
34644	Grainger	Air filters	104.64
34645	Harter's Fox Valley Disposal	Dumpster service	341.50
34646	Hydroblasters Inc	Clear pipes at treatment plan	850.00
34647	Kraft Power	Air filters & ignitions	739.85
34648	LaBlanc's Southside Motors	Repairs to trimmer	108.93
34649	Service Motor Company	Mower repairs	1,930.66
34650	Solenis LLC	Praestol	13,923.20
34651	Spee Dee Delivery Service Inc.	Shipping fees for samples	8.57
34652	Storm Water Dept	Work done for Collections	1,277.26
34653	Teamsters Union Local 662	Union Dues	465.00
34654	Transit Department	Work done for Utilities	183.20
34655	Mastercard	Supplies	114.09
34656	Water Dept	HRA Admin Fees	20.00
34657	Werner Electric Supply	Delay fuse	78.08
34658	City Of Stevens Point	Workers Comp Premium	1,168.21
34659	Donohue & Assoc Inc	Engineering Services - Lift Station Replacements	7,883.48

34660	Mada Custom Apparel	Uniforms - Becky, Colten & Mark	81.93	
	Sewage Department Payroll	Payroll	28,919.63	
	WI Dept of Revenue	Garnishment of wages	7.83	
	IRS	Payroll Taxes	11,061.76	
	WI Dept of Revenue	Payroll Taxes	2,208.78	
	TOTAL OF EXPENSES LISTED		<u>\$ 182,987.86</u>	<u>\$ 182,987.86</u>
	BALANCE ON HAND JULY 31, 2020			<u>\$ 6,016,742.79</u>
		Balance on Hand		<u>\$ 6,016,742.79</u>
		Plus uncleared checks		<u>\$ 806.50</u>
		Less checks previously written clearing this month		<u>\$ (60,200.63)</u>
		Ending Cash Balance matching Bank Statements		<u><u>\$ 5,957,348.66</u></u>
		<u>Less Restricted Balance</u>	\$	(4,156,927.07)
		TOTAL	\$	1,800,421.59

***Additional restricted cash of \$250,000.00 is invested in CDs.

REPORT TO THE AUGUST 2020
MEETING OF THE BOARD OF WATER AND SEWERAGE COMMISSIONERS

STORM WATER DEPARTMENT

FINANCES:

Bank balance as of July 1, 2020

\$ 891,811.22

Bank deposits recorded in July 2020

\$ 159,619.02

\$ 1,051,430.24

CHECKS ISSUED July 2020:

2820	Badgerland	Stormwater Concrete Repairs	307.00	
2821	Diggers Hotline	Diggers locate charges	177.33	
2822	Fastenal Co	Supplies	96.72	
2823	Frank's Hardware Co, Inc.	Supplies	202.58	
2824	Sewage Dept	Work completed for Storm Water Dept	1,194.18	
2825	Spectrum Insurance Group	Auto Insurance	473.00	
2826	Springbrook Holding Company LLC	Database merge fees	316.66	
2827	Stuczynski Trucking & Excavation	Materials for new stormwater main	1,296.00	
2828	Verizon Wireless	IPad & Cell phone charges	256.78	
2829	Water Dept	Inventory used	6,611.82	
2830	Wisconsin Public Service	Monthly Gas Utility Charges	18.20	
2831	Wisconsin Shoring & Supply Co Inc.	Storm main repair parts	2,700.00	
2832	City of Stevens Point	Retirement, fuel & employee deductions	5,932.55	
2833	County Materials Corp	Speed crete	305.20	
2834	Metal Crafters Inc	Parts for truck	8.03	
2835	Sewage Dept	Work for Storm	1,557.92	
2836	Teamsters Union Local 662	Union dues	263.00	
2837	Water Dept	Work for Storm	140.86	
2838	City of Stevens Point	Workers Comp Premium	919.04	
2839	Mada Embroidery & Screen Printing, LLC	Uniforms - Ryan, Shane & Craig	81.93	
	Payroll	7/9/2020	7,018.90	
	Payroll	7/23/2020	7,657.46	
	IRS	Payroll Taxes	5,100.29	
	WI Dept of Revenue	Payroll Taxes	1,132.55	
	TOTAL OF EXPENSES LISTED		\$ 43,768.00	\$ 43,768.00
	BALANCE ON HAND JULY 31, 2020			\$ 1,007,662.24

Balance on Hand	\$ 1,007,662.24
Plus checks written after the end of this month	
Plus uncleared checks	\$ 736.00
Less checks previously written clearing this month	\$ (28,079.80)
Ending Cash Balance matching Bank Statements	\$ 980,318.44

WATERWORKS REPORT
FOR JULY 2020
CURRENT YEAR VS. PREVIOUS YEAR

	2019	2020	INCREASE	DECREASE	RECORD HIGH	DATE	
Total pumpage, gallons	199,645,000	199,876,000	231,000		323,144,000	Jul-02	
Daily pumping average, in gallons	6,440,000	6,448,000	8,000				
Peak pumpage, gallons, (date)	7,700,000 (25TH)	7,618,000 (5TH)			13,627,000	7/16/2002	
Low pumpage, gallons, (date)	3,802,000 (20th)	5,513,000 (10th)	1,711,000		2,095,000 3,802,000	07/18/71 7/20/2019	◀Record low since 1995 when the utility started providing water to Stora Enso.
Power bill	\$19,053.38	\$18,187.30		\$866.08	\$29,354.19	Jul-12	
K.W.H's used	232,358	219,166		13,192			
Gallons pumped per K.W.H.	859	912	53				

**STEVENS POINT, WISCONSIN
WATERWORKS REPORT**

FOR JUNE 2020

CURRENT YEAR VS. PREVIOUS YEAR

	2019	2020	INCREASE	DECREASE	RECORD HIGH	DATE
Total pumpage, gallons	181,220,000	181,763,000	543,000		304,550,000	Jun-88
Daily pumping average, in gallons	6,040,667	6,059,000	18,333			
Peak pumpage, gallons, (date)	7,163,000 (20TH)	7,628,000 (18TH)	465,000		12,930,000	6/23/1988
Low pumpage, gallons, (date)	5,098,000 (1ST)	4,274,000 (23RD)		824,000	2,570,000	06/02/70
Power bill	\$17,326.94	\$16,389.90		\$937.04	\$28,117.77	Jun-12
K.W.H's used	199,743	207,465	7,722		4,002,000	6/23/2017
Gallons pumped per K.W.H.	907	876		31		◀Record low since 1995 when the utility started providing water to Stora Enso.

**STEVENS POINT WATER DEPARTMENT
CONSUMPTION HISTORY**

(Pumpage x 1,000)

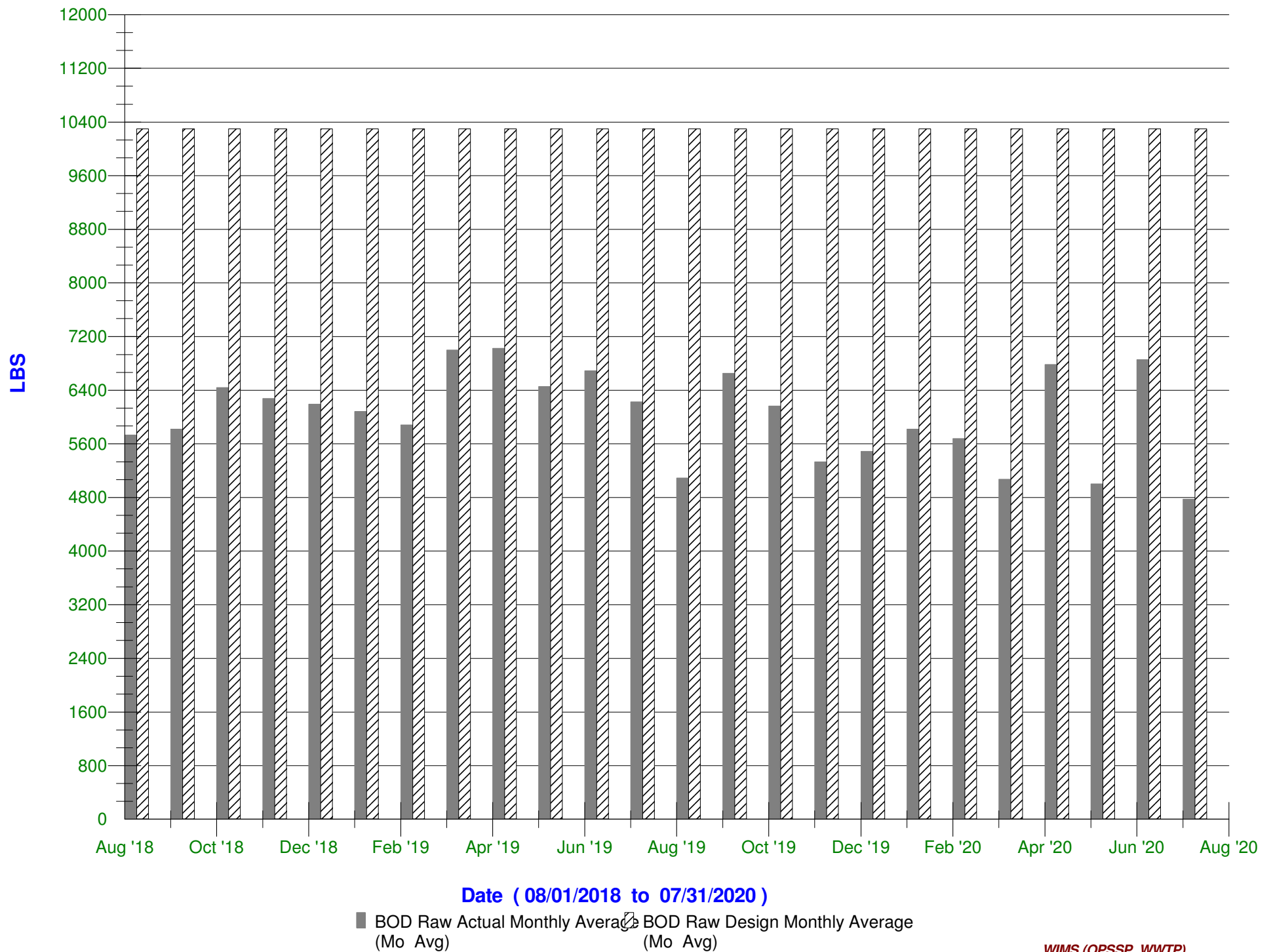
MONTH	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
JANUARY	150,622	142,263	147,206	140,438	131,056	135,295	140,095	130,487	145,393	150,360
FEBRUARY	131,127	135,573	132,869	123,311	124,330	132,142	134,021	131,003	146,311	139,446
MARCH	138,327	154,358	148,770	139,881	131,189	146,717	147,561	141,337	149,346	152,765
APRIL	127,470	135,713	133,238	142,367	135,484	145,731	154,752	145,137	152,172	148,872
MAY	149,292	154,346	168,410	141,687	175,174	173,606	151,986	167,083	194,439	167,541
JUNE	181,763	181,220	187,095	175,722	187,693	167,417	182,687	172,509	225,295	214,054
JULY	199,876	199,645	240,487	202,817	185,672	187,544	215,463	220,813	276,846	231,575

Final Effluent Discharge Data

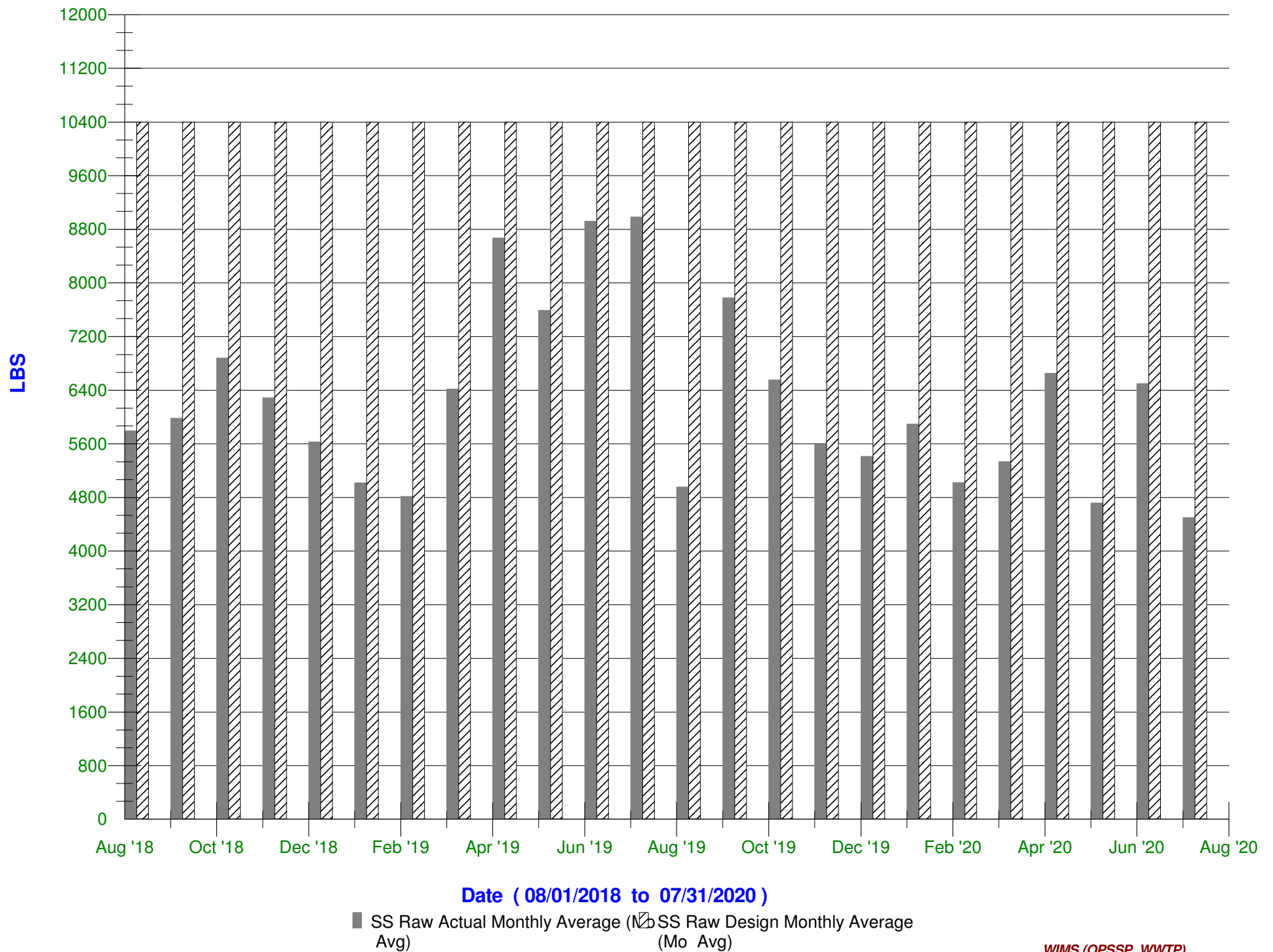
July 2020

		Sewage Flow		BOD					S.S.					Phosphorus				Fecal	Effluent
		Raw	Final	Raw	Final	%	Raw	Final	Raw	Final	%	Raw	Final	Raw	Final	Raw	Final	Coliform	Ammonia
Date	Precip INCHES	MGD	MGD	MG/L	CBOD MG/L	Reduct.	Pounds BOD/Day	Pounds CBOD/Day	(ppm)	(ppm)	Reduct.	Pounds SS/Day	Pounds SS/Day	(ppm)	(ppm)	P/Day	P/Day	Final #/100 ml	mg/L
07/01/2020	0.00	2.713	3.215	227	2.78	99	5,136	75	200	3.40	98	4,525.28	91	4.180	0.290	95	8	123	9
07/02/2020	0.00	2.657	3.073	266	3.28	99	5,894	84	220	3.90	98	4,875.06	100						
07/03/2020	0.00	2.473	2.886	215	2.94	99	4,434	71	228	3.50	98	4,702.46	84	4.600	0.320	95	8		10
07/04/2020	0.00	2.284	2.668	174	2.26	99	3,314	50	200	3.30	98	3,809.71	73	3.960	0.240	75	5		11
07/05/2020	0.00	2.358	2.751	261	2.49	99	5,133	57	272	3.30	99	5,349.08	76						
07/06/2020	0.00	2.598	3.034	206	2.63	99	4,463	67	232	5.00	98	5,026.82	127						
07/07/2020	0.34	2.565	3.035	211	2.93	99	4,514	74	248	4.24	98	5,305.24	107						
07/08/2020	0.11	2.498	3.148	290	3.08	99	6,042	81	348	9.60	97	7,250.00	252	4.050	0.210	84	6	38	19
07/09/2020	0.00	2.532	3.118	251	3.29	99	5,300	86	200	5.70	97	4,223.38	148	3.820	0.168	81	4		
07/10/2020	0.57	2.490	2.960	258	2.99	99	5,358	74	188	4.50	98	3,904.12	111	3.090	0.168	64	4		11
07/11/2020	0.00	2.334	2.783	191	2.61	99	3,718	61	208	3.13	98	4,048.84	73						9
07/12/2020	0.00	2.269	2.714	154	1.99	99	2,914	45	132	3.10	98	2,497.90	70						
07/13/2020	0.00	2.404	2.877	252	2.69	99	5,052	65	196	2.75	99	3,929.67	66						
07/14/2020	0.00	2.425	2.948	280	2.46	99	5,663	60	244	3.80	98	4,934.78	93						
07/15/2020	0.71	2.559	2.953	326	2.78	99	6,958	68	264	4.40	98	5,634.30	108					16	
07/16/2020	0.18	2.552	2.870	281	3.02	99	5,981	72	208	4.40	98	4,427.01	105	3.480	0.250	74	6		10
07/17/2020	0.00	2.531	2.850	200	3.20	98	4,222	76	200	4.00	98	4,221.71	95	3.180	0.210	67	5		9
07/18/2020	0.03	2.323	2.652	245	3.18	99	4,747	70	208	3.50	98	4,029.75	77	3.220	0.230	62	5		9
07/19/2020	0.02	2.282	2.586	181	2.75	98	3,445	59	128	4.40	97	2,436.08	95						
07/20/2020	0.00	2.339	2.644	249	2.69	99	4,857	59	264	3.56	99	5,149.92	79						
07/21/2020	0.00	2.357	2.901	272	3.39	99	5,347	82	204	3.04	99	4,010.11	74						
07/22/2020	0.13	2.353	2.967	231	3.43	99	4,533	85	172	7.00	96	3,375.33	173	3.890	0.300	76	7	136	38
07/23/2020	0.00	2.345	2.993	190	3.63	98	3,716	91	192	3.25	98	3,755.00	81	3.120	0.330	61	8		48
07/24/2020	0.00	2.307	2.800	197	2.80	99	3,790	65	268	6.00	98	5,156.42	140						0
07/25/2020	0.00	2.211	2.526	200	2.82	99	3,688	59	392	6.34	98	7,228.38	134	3.300	0.280	61	6		21
07/26/2020	0.03	2.223	2.565	266	3.02	99	4,932	65	200	3.90	98	3,707.96	83						
07/27/2020	0.17	2.332	2.891	240	3.20	99	4,668	77	200	5.40	97	3,889.78	130						
07/28/2020	0.00	2.453	3.112	243	3.70	98	4,971	96	224	7.10	97	4,582.60	184						
07/29/2020	0.62	2.358	3.067	285	3.51	99	5,605	90	228	5.60	98	4,483.78	143						
07/30/2020	0.00	2.258	2.903								100								
07/31/2020	0.00	2.239	2.668								100								
Total	2.91	74.622	89.158	6,842	86	2,863	138,395	2,064	6,468	131.11	3,040	130,470.46	3,174	43.890	2.996	895.879	72.470	313.000	204.000
Average	0.09	2.407	2.876	236	3	99	4,772	71	223	4.52	98	4,498.98	109	3.658	0.250	74.583	6.000	78.250	15.692
Maximum	0.71	2.71	3.22	326.00	3.70	99.15	6,957.51	96.03	392.00	9.60	100.00	7,250.00	252.04	4.60	0.33	94.87	8.24	136.00	48.00
Minimum	0.00	2.21	2.53	154.00	1.99	98.09	2,914.21	45.04	128.00	2.75	95.93	2,436.08	65.98	3.09	0.17	60.85	4.15	16.00	0.00

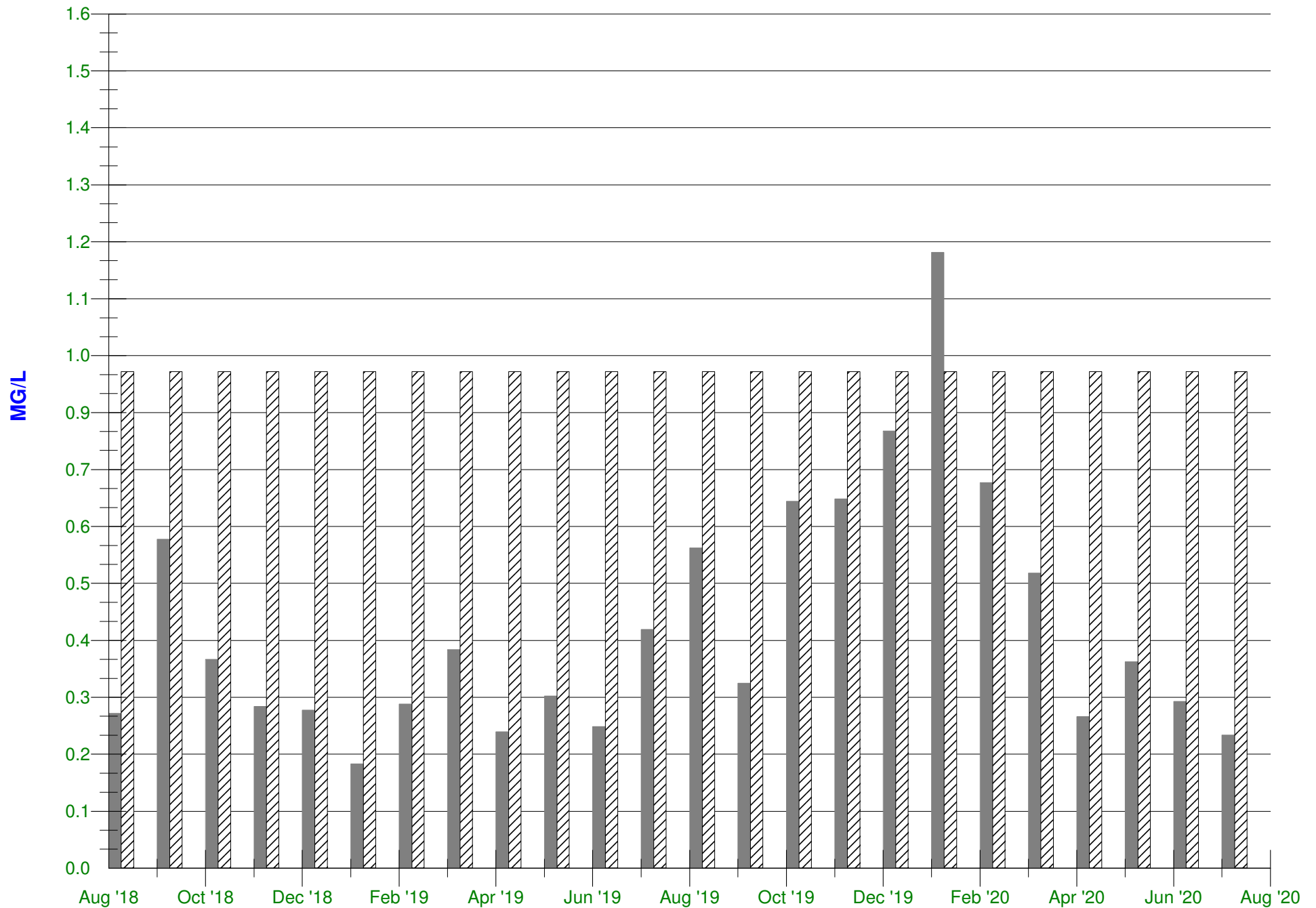
BOD Raw 2 Year History



SS Raw 2 Year History



Phosphorus mg/l 2 Year History



Date (08/01/2018 to 07/31/2020)

■ Effluent Phosphorous Total (Mo Avg) ■ Phosphorus Final Limit (Mo Avg)

Sewage Plant Monthly Average

	Temperature		Precip.	Sewage Flow		Phosphorus				BOD					Suspended Solids						Per Day	Gas
Month	Max	Min	INCHES	Influent	Effluent	Raw Influent		Final Effluent		Raw Influent		Final CBOD Eff.		Reduction	Raw Influent		Final Effluent		Reduction	Power kW	LBS BOD Removed	Production Per Day CUFT
	°F	°F		MGD	MGD	MG/L	LBS	MG/L	LBS	MG/L	LBS	MG/L	LBS	%	MG/L	LBS	MG/L	LBS	%			
Aug 2019	77	56	2.70	2.286	2.434	6.746	134	0.600	12	267	5,085	4.27	86.66	98	260	4,952	4.50	91.37	98		4,998	29,226
Sep 2019	71	54	7.46	2.650	2.672	7.348	161	0.346	8	301	6,649	3.67	81.73	99	352	7,783	4.39	97.82	99		6,568	35,337
Oct 2019	54	38	3.58	2.896	2.901	8.049	194	0.687	16	257	6,203	3.87	93.66	98	272	6,580	4.78	115.70	98		6,109	43,258
Nov 2019	35	23	1.90	2.294	2.557	7.451	145	0.692	15	277	5,300	5.41	115.31	98	292	5,589	6.77	144.29	98	181	5,185	33,133
Dec 2019	40	17	2.91	2.245	2.639	7.327	137	0.819	18	292	5,463	5.87	129.10	98	289	5,416	7.02	154.44	97		5,334	0
Jan 2020	29	15	1.20	2.323	2.858	6.581	127	1.153	28	301	5,836	3.30	78.62	99	306	5,920	5.43	129.44	98	5,342	5,757	
Feb 2020	30	8	1.05	2.132	2.498	6.196	110	0.722	15	320	5,690	4.30	89.62	99	283	5,035	8.81	183.62	97	6,950	5,601	
Mar 2020	43	26	3.88	2.669	2.992	5.166	105	0.553	13	232	5,163	3.69	92.18	98	242	5,388	9.10	227.07	96	6,200	5,071	
Apr 2020	51	31	2.12	3.425	3.801	3.682	76	0.284	7	235	6,720	2.79	88.34	99	238	6,806	6.93	219.66	97	4,667	6,632	
May 2020	65	45	4.78	2.294	2.766	4.608	83	0.387	8	266	5,094	3.75	86.60	99	253	4,832	6.01	138.61	97	5,362	5,007	
Jun 2020	78	57	7.57	3.779	5.617	3.828	161	0.313	27	219	6,894	3.82	178.76	98	200	6,291	4.18	195.73	98	6,347	6,715	
Jul 2020	83	63	2.91	2.407	2.876	3.658	75	0.250	6	236	4,736	2.95	70.75	99	223	4,478	4.52	108.44	98	5,800	4,666	
Minimum	29	8	1.05	2.132	2.434	3.658	75	0.250	6	219	4,736	2.79	70.75	98	200	4,478	4.18	91.37	96	181	4,666	0
Maximum	83	63	7.57	3.779	5.617	8.049	194	1.153	28	320	6,894	5.87	178.76	99	352	7,783	9.10	227.07	99	6,950	6,715	43,258
Total	657	432	42.06	31.401	36.610	70.638	1,509	6.804	173	3,202	68,833	47.68	191.34	1,181	3,210	69,070	72.44	1,806.20	1,171	40,849	67,642	140,954
Average	55	36	3.51	2.617	3.051	5.887	126	0.567	14	267	5,736	3.97	99.28	99	268	5,756	6.04	150.52	98	5,106	5,637	28,191