FY 2021

Annual Operations Report



Overview

During the fiscal year of July 1, 2020 - June 30, 2021, Suez performed Operations and Maintenance of the Rockland Wastewater Treatment Facility and its 13 lift stations.

On June 30, 2021, Suez completed their 2nd year of a 15-year partnership with the Rockland Sewer Commission. The current term of this contract is for five years expiring on 6/30/24 where both parties may enter into an additional two five-year extensions based on mutually acceptable terms and conditions.

Staffing 1.0

SUEZ remains fully staffed at the project level for its O&M contract. The SUEZ technical support and operational staff for the Rockland project this year includes:

• Area Manager: Johnathon Mongie

Project Manager: Rick Kotouch

Assistant Project Manager: Edwin McAuliffe

Maintenance Foreman: Chuck Amaral

Laboratory Technician: Steven Butts

O & M II Technicians:

Megan Kelly Lynch

Garry Murrill

Shaun Chaponis (part-time)

Dan Sullivan-Xenos

- O & M Operator-In-Training Technician:
 - **Kevin Fennell**

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In FY 2020-2021, a new employee was hired (Kevin Fennell) as an Operator-In-Training. Longtime employee Shaun Chaponis retired as a full time operator and now works as a part-time employee covering weekends at the facility.

	Current	Employ	ee Licenses	s as o	of 8/0)1/20	021			
		Но	oisting	W	astewa	iter	NEWE	A Colle	ections	NEWEA Laboratory
Employee	Title	1C Forklift	1B Boom Truck & Forklift	4M	5C	7C	ı	Ш	IV	I
Rick Kotouch	Project Manager					х			х	
Edwin McAuliffe	Asst. Project Manager		x			х		х		х
Steven Butts	Lab Technician					х				x
Chuck Amaral	Maintenance Foreman		х		х			х		
Megan Kelly Lynch	Operator	х				х				
Shaun Chaponis (Part Time Weekends)	Operator				х		х			
Garry Murrill	Operator				х			х		
Dan Sullivan-Xenos	Operator				х					
Kevin Fennell	Operator In Training									

1.1 Employee Training and Continuing Education

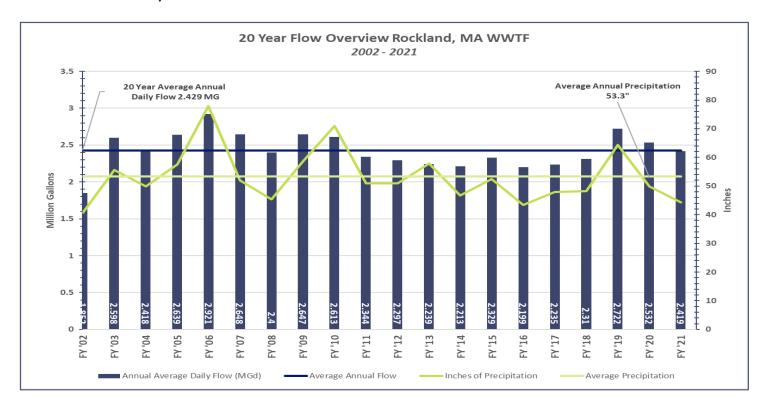
Having highly trained and certified operators is very important to delivering a high level of operational performance. Beyond having competent operators, SUEZ also encourages all staff to take relevant training to attain their current certifications and to advance their knowledge in their fields.

To celebrate and encourage employee educational accomplishment, the SUEZ Tuition and Education Assistance program reimburses employees attending an accredited college/university. Ed McAuliffe took advantage of this program and received his Associate Degree in Business Management at Bristol Community College during the spring of 2021.

Suez continues to participate in the Continuous Energy Improvement Program funded by National Grid and directed by Cascade Energy. This year completed the second full year of the three-year program based on reducing energy usage at the facility with savings based incentives. The facility is on track to meet the goal of 5% reduction of energy over the 3 years.

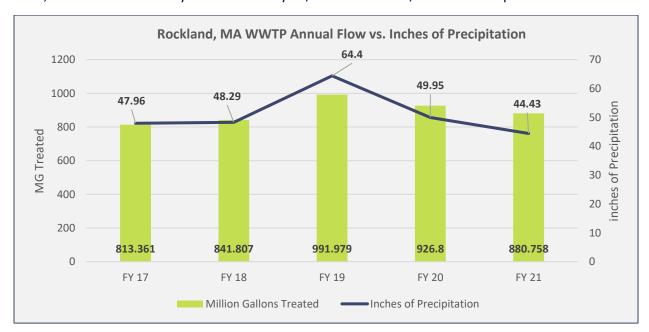


2.0 Facility Overview



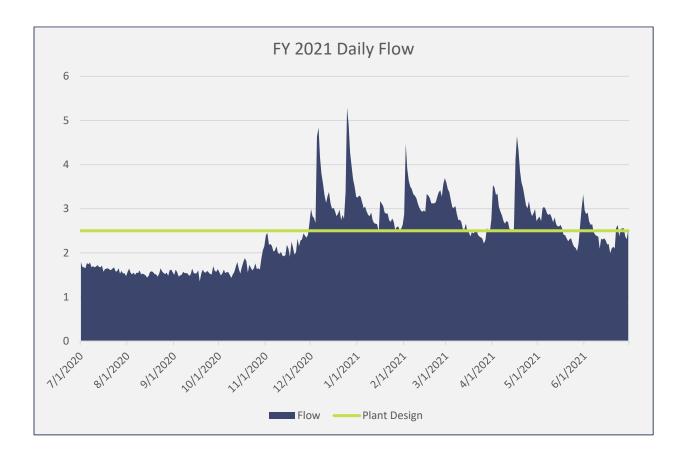
2.1 Weather

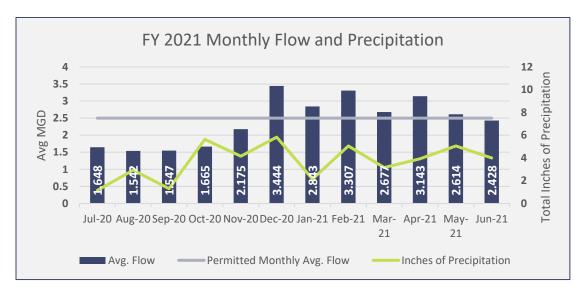
The facility received a total of 44" of precipitation during FY 2020-2021. This amount was 6.8" less than the previous five-year average of 50.8". The highest single day total of precipitation occurred on February 1, 2021 with a total of 2.15". The coldest temperature of the year of 0°F occurred on March 3, 2021, while the warmest day occurred on July 19, 2020 and June 7, 2021 with temperatures of 95°F.



2.2 Flows

The facility treated a total of 880,758,000 gallons throughout the year with a daily average flow of 2.419 MGD. The highest total daily flow recorded was on Christmas Day, 2020 at 5.290 MGD while the lowest total daily flow recorded was on September 18, 2020 at 1.350 MGD.





3.0 Operational Overview

3.1 Process Control

The SUEZ staff has continued to deliver exceptional high-quality effluent throughout 2020-2021. This is achieved through the combined effort, experience and expertise of the highly qualified staff. Process control continues to be a true passion of the staff who take pride in operating the facility for the Town of Rockland.

The SUEZ- Rockland management team continues to work with the SUEZ Technical Services group to evaluate opportunities for process optimization and energy savings at the facility as part of the Rockland RIPE (Research, Investigate, Process, Evaluation) program. Key points that have been identified during this program were ways to improve plant capacity during wet weather events, energy consumption, solids handling and reducing chemical usage. The Rockland team will continue to work with the Technical Services group through 2021-2022 to look for other key areas of opportunity.

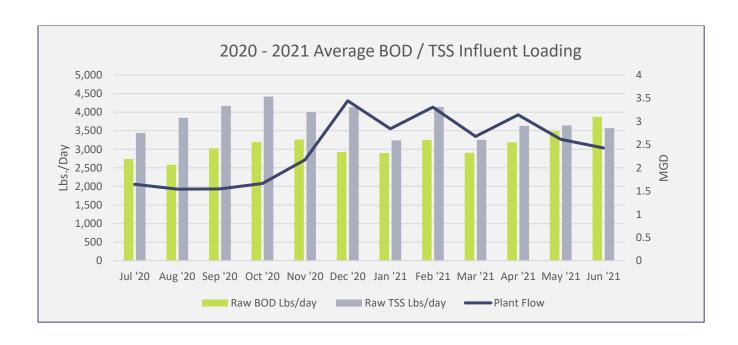
Back in July of 2018, the Rockland SUEZ staff joined a National Grid funded Continuous Energy Improvement (CEI) program. This program consists of eight other organizations where everyone meets for quarterly meetings over a 3-year period. During this time, Cascade Energy and J.K. Muir Engineering will work with the participants to teach, identify, and implement operational energy savings. National Grid offers a \$0.03 credit for KWH reduction at the end of the program, as well as a \$0.30 credit for Natural Gas Reduction. The local Rockland Suez staff continues to work through the program along with SUEZ upper management and technical support to reach a goal of 5% KWH reduction by the end of the three-year program.

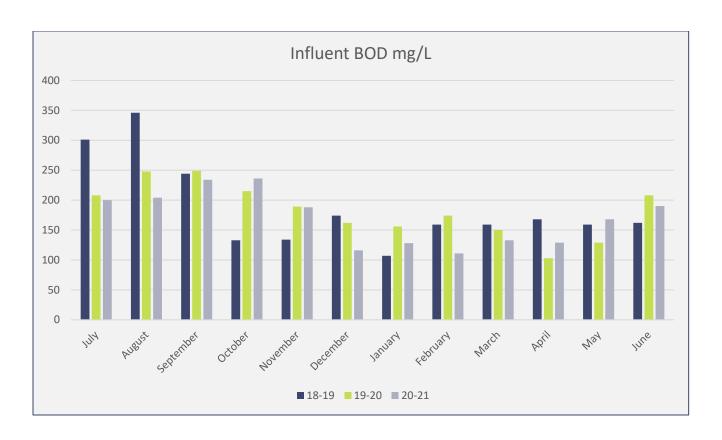


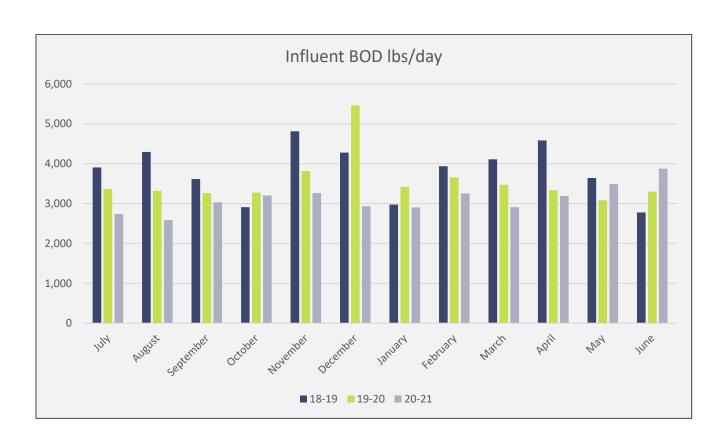
3.2 Influent Loadings

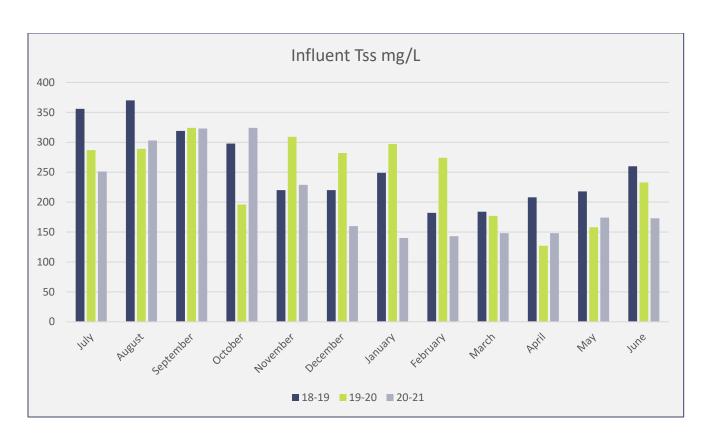
The influent BOD lbs. /day average decreased by 13% from FY '20 to FY '21 with an average of 3562 lbs. /day in FY '20 to 3112 lbs. /day FY '21. The influent TSS lbs. /day average decreased by 24% with an average of 4969 lbs. /day in FY '20 to a total of 3790 lbs./day in FY '21.

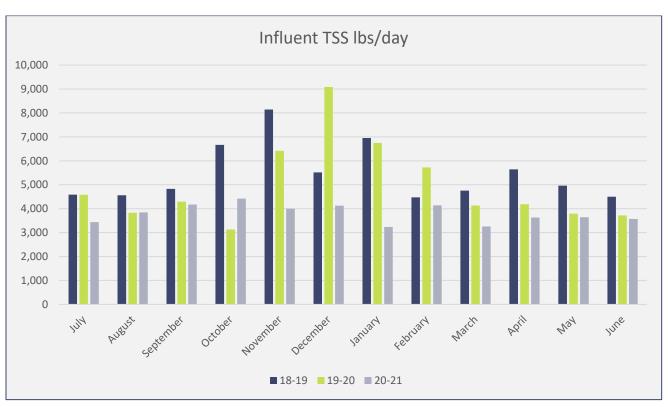
	2020 - 2021 Influent Flow and Loadings														
Month	Plant Flow	Raw BOD	Raw BOD	Raw TSS	Raw TSS	Raw NH3	Raw Total P								
Wienten	1 Tarret 10W	Mg/l	Lbs/day	Mg/L	Lbs/day	mg/l	Mg/L								
Jul '20	1.648	200	2,737	251	3,438	30	5.4								
Aug '20	1.542	204	2,583	303	3,845	36	5.5								
Sep '20	1.547	234	3,027	323	4,170	37	6.2								
Oct '20	1.665	236	3,200	324	4,417	34	5.9								
Nov '20	2.175	188	3,263	229	4,000	24	5.3								
Dec '20	3.444	116	2,929	160	4,128	18	3.3								
Jan '21	2.843	128	2,900	140	3,237	18	3								
Feb '21	3.307	111	3,253	143	4,139	11	1.9								
Mar '21	2.677	133	2,907	148	3,256	14	2.4								
Apr '21	3.143	129	3,189	148	3,630	20	3.6								
May '21	2.614	168	3,485	174	3,644	16	2.9								
Jun '21	2.428	190	3,874	173	3,572	19	3.1								
Average	2.419	170	3112	210	3790	23	4.04								



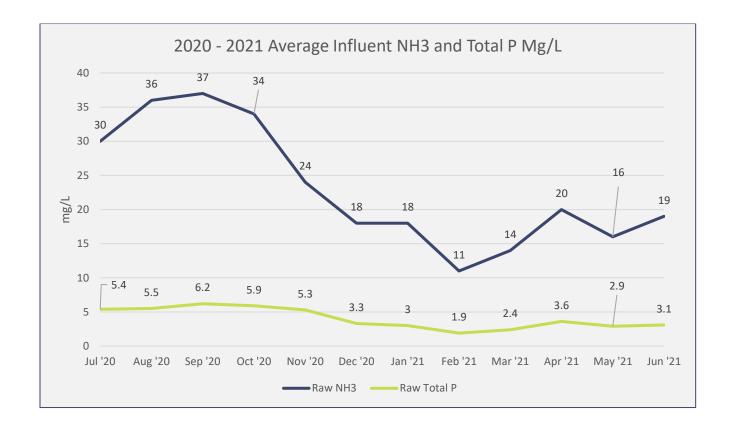








The FY 2021 average influent NH3 was 23 mg/L. The average influent Total P was 4.04 mg/L.

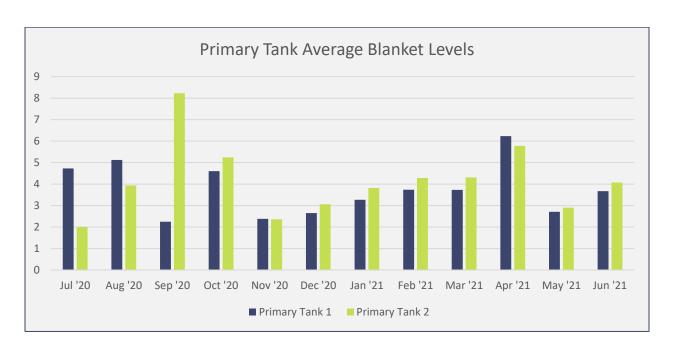




3.3 Primary Treatment

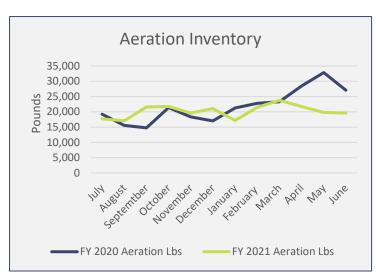
The primary treatment TSS removal decreased slightly form FY '20 to FY '21 with a drop in TSS removal from 67% to 59% and a drop from 58% to 52%. The annual average primary blanket depth remained the same throughout FY '20 to FY '21 with a slight increased from 2.78' to 2.8'.

Date	Primary Tank 1 Blanket	Primary Tank 2 Blanket	Raw Influent BOD	Raw Influent TSS	Raw Influent NH3	Raw Influent Total P	Tank 1 %TS	Tank 1 %VS	Tank 2 %TS	Tank 2 % VS	Primary Eff. TSS	Primary Eff. Bod	Primary Eff. NH3	Primary Eff. Total P	Primary TSS Removal	Primary BOD Removal
	Feet	Feet	mg/L	mg/L	mg/L	mg/L	%	%	%	%	mg/L	mg/L	mg/L	mg/L	%	%
Jul '20	4.73	2.00	200	251	30	5.40	2.81	75.6	2.19	73.47	108	77	36	2.50	57	67
Aug '20	5.12	3.94	204	303	36	5.50	2.68	75.11	3.47	75.68	96	80	42	2.30	67	63
Sep '20	2.25	8.23	234	323	37	6.20	1.51	70.27	2.47	74.26	128	132	40	2.10	58	48
Oct '20	4.6	5.24	236	324	34	5.90	2.22	74.44	2.22	74.33	108	107	43	2.80	66	50
Nov '20	2.38	2.36	188	229	24	5.30	2.32	80.52	2.47	78.12	71	80	29	2.80	68	56
Dec '20	2.65	3.06	116	160	18	3.30	2.49	82.4	2.57	82.77	58	60	23	2.80	60	48
Jan '21	3.27	3.82	128	140	18	3.00	2.60	82.78	2.71	83.08	67	84	26	3.50	39	41
Feb '21	3.74	4.28	111	143	11	1.90	2.79	83.04	2.83	82.79	49	72	15	2.00	62	34
Mar '21	3.73	4.31	133	148	14	2.40	2.40	81.44	2.42	82.02	68	81	17	2.50	55	43
Apr '21	6.23	5.78	129	148	20	3.60	2.57	78.34	2.49	78.69	58	58	26	2.70	58	56
May '21	2.71	2.90	168	174	16	2.90	2.48	75.88	2.86	76.13	68	63	22	1.30	60	62
Jun '21	3.67	4.07	190	173	19	3.10	2.70	78.41	2.76	78.16	78	68	19	1.80	56	57
Average	3.76	4.17	170	210	23	4.04	2.46	78.19	2.62	78.29	80	80	28	2.43	59	52

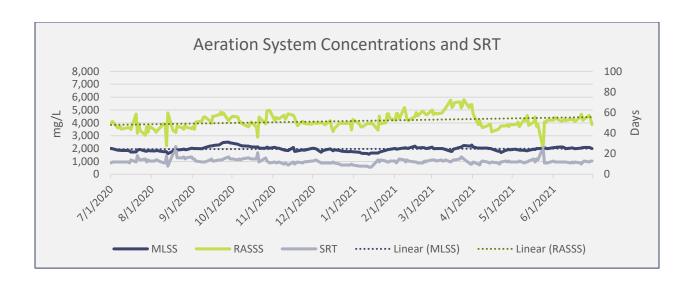


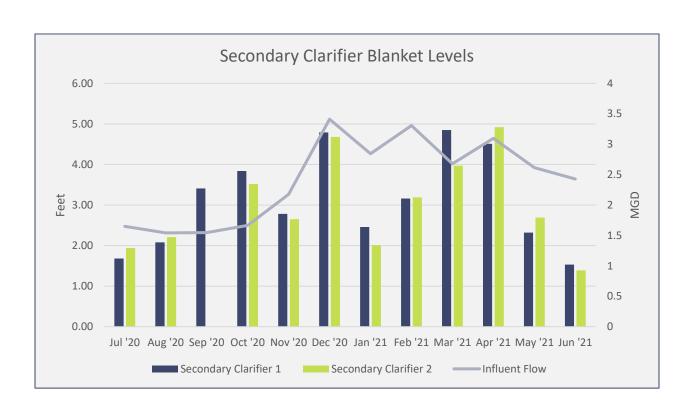
3.4 Secondary Treatment

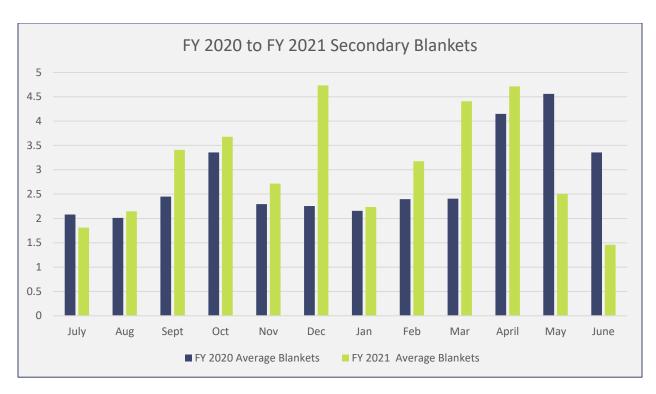
Throughout FY 2020 - 2021, the Rockland staff continued to implement procedures implemented from the 2018 RIPE program adjustments. Increased plant solids removal volume continues to help reduce excess loadings to the aeration system coming from the primary treatment system due to digester overflow. In fact, this fiscal year, the digester overflow back into primary treatment was eliminated with a differential of nearly 480k gallons to gallons pressed vs pumped to digestion. The annual average total aeration inventory decreased slightly from 21,832 lbs. in FY '20 to 20,188 lbs. in FY '21. The average clarifier loading throughout the year was 12 lbs./day/ft2.



Date	RAS Flow	Clarifier Loading	Tank 1 Blanket	Tank 2 Blanket	Avg. Aeration	Avg. MLSS Mg/l	Average RASSS Mg/L	Avg. MLVSS	RASVSS Mg/I	Lbs. in Aeration Lbs.	Total Inventory Lbs.	WAS Avg. GPD Gal.	Aeration SRT Days	Total Inventory SRT	F/M Ratio	Avg. Clarifier
Jul '20	1.552	8.82	1.68	1.94	6.87	1,863	3,663	1,371	2,695	16,162	17,699	46,361	9	13	0.09	127
Aug '20	1.481	8.17	2.08	2.21	6.93	1,849	3,551	1,287	2,773	16,041	17,070	38,365	11	16	0.09	105
Sep '20	1.322	9.53	3.41		7.05	2,235	4,309	1,604	3,242	19,381	21,582	43,210	9	14	0.12	151
Oct '20	1.387	9.62	3.84	3.52	7.05	2,177	4,137	1,623	3,239	18,884	21,755	43,319	10	15	0.1	176
Nov '20	1.686	10.99	2.78	2.65	7	1,937	4,276	1,485	3,371	16,799	19,565	48,820	7	11	0.11	204
Dec '20	2.714	16.17	4.79	4.68	6.96	1,850	3,888	1,553	3,274	16,047	21,057	60,981	6	11	0.12	200
Jan '21	2.172	12.44	2.46	2.01	7.04	1,732	4,060	1,482	3,395	15,021	17,186	54,284	7	10	0.15	143
Feb '21	2.683	18.45	3.16	3.19	6.75	2,042	4,618	1,698	3,747	17,707	21,475	44,000	8	13	0.14	144
Mar '21	1.939	14.25	4.85	3.97	6.95	2,046	5,195	1,678	4,290	17,745	23,771	41,300	8	13	0.12	218
Apr '21	2.518	15.32	4.51	4.92	6.83	1,955	3,822	1,522	3,051	16,956	21,726	59,617	7	12	0.11	184
May '21	1.977	12.82	2.32	2.69	6.96	1,946	3,927	1,487	3,001	16,877	19,801	47,035	9	13	0.1	145
Jun '21	1.832	13.08	1.53	1.39	7.07	2,062	4,279	1,552	3,210	17,884	19,573	45,990	8	12	0.1	139
Annual Avg	1.94	12.47	3.12	3.02	6.96	1,975	4,144	1,529	3,274	17,125	20,188	47,774	8	13	0.11	161



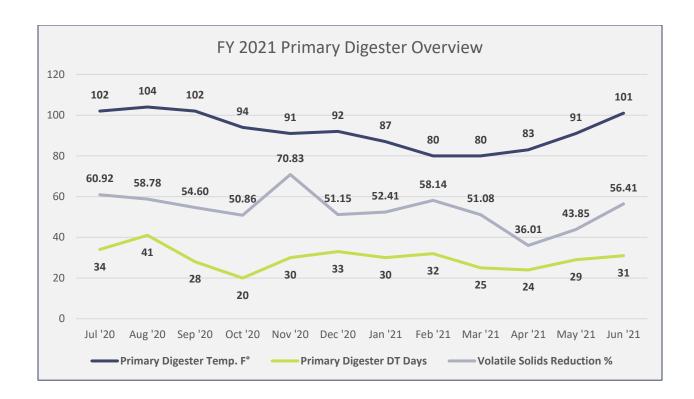




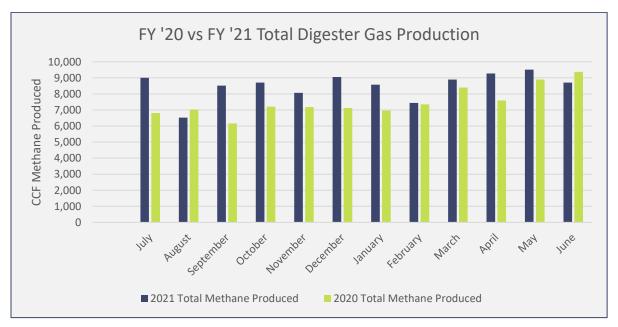
3.5 Digester Performance

The annual average Primary Digester temperature in FY 2021 was 92°F. The annual average detention time was 30 days. The average Volatile Solids Reduction was 54%.

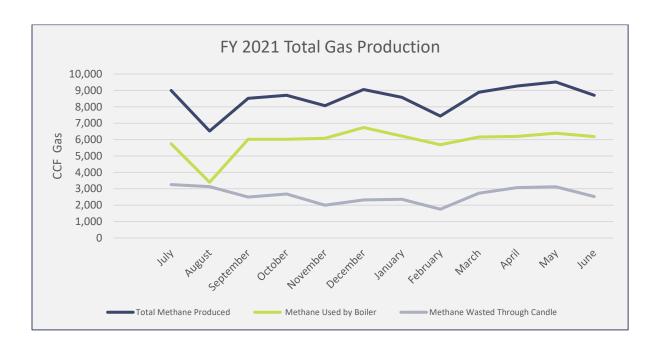
Date	Primary Digester Temp.	Primary Digester Ph	Primary Digester DT	Digester Feed	Avg. Primary Sludge TS	Avg. Primary Sludge VS	Secondary Digester VS	Primary Digester Vol. Acids	Primary Digester Alkalinity	Primary Digester VA/ALK	Gas Production	Volatile Solids Reduction
	F°	Ph	Days	GPD	%	%	%	mg/L	mg/L	mg/L	CCF/Day	%
Jul '20	102	7.11	34	13,746	2.81	75.55	54.23	230	2,650	0.0868	290	60.92
Aug '20	104	6.61	41	11,999	3.27	75.65	55.12	1,530	2,830	0.5406	210	58.78
Sep '20	102	6.93	28	17,992	2.45	74.25	52.04	627	2,897	0.2118	284	54.6
Oct '20	94	6.99	20	23,497	2.22	74.39	57.68	100	1,970	0.0508	281	50.86
Nov '20	91	6.97	30	15,610	2.4	79.77	52.4	100	2,120	0.0472	269	70.83
Dec '20	92	6.83	33	13,957	2.53	82.59	67.92	85	2,250	0.0378	292	51.15
Jan '21	87		30	15,124	2.65	82.93	63.39	130	2,480	0.0524	286	52.41
Feb '21	80		32	14,406	2.81	82.92	66.25	175	2,210	0.0792	266	58.14
Mar '21	80	6.82	25	18,071	2.41	81.73	67.91	115	1,950	0.059	287	51.08
Apr '21	83	6.92	24	19,513	2.53	78.52	67.04	70	2,080	0.0337	309	36.01
May '21	91	6.9	29	16,280	2.67	76.01	63.37	100	2,430	0.0412	307	43.85
Jun '21	101	6.92	31	14,911	2.73	78.29	60.08	125	2,360	0.0530	290	56.41
Average	92	6.90	30	16,259	2.62	78.55	60.62	282	2352	0.1078	281	53.75



During FY 2021, the digester process produced a total of 10,226,000 Cubic Feet of Methane Gas. Of this amount, 7,082,500 Cubic Feet used by the boiler system to maintain digester temperature, the remaining 3,143,500 Cubic Feet of gas was burnt off through the candle ignition system.



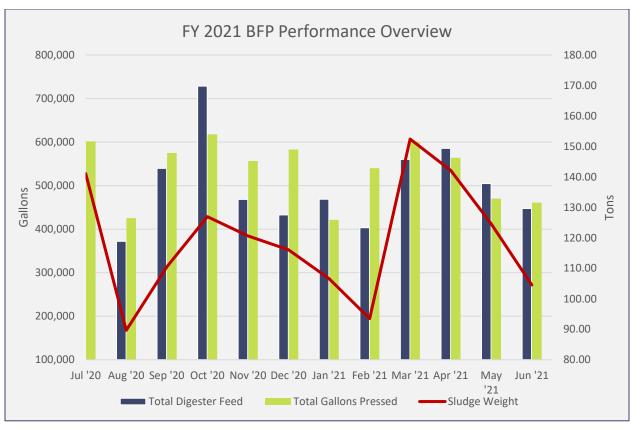
The total gas production increased by 13.5% in FY '21 with a total production of 102,260 CCF compared to **90,073** CCF in FY '20.

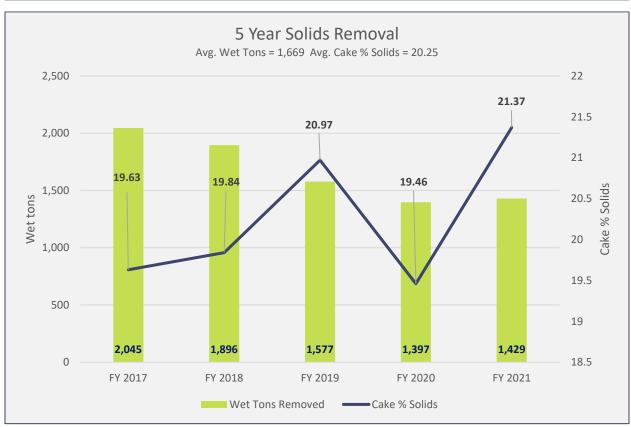


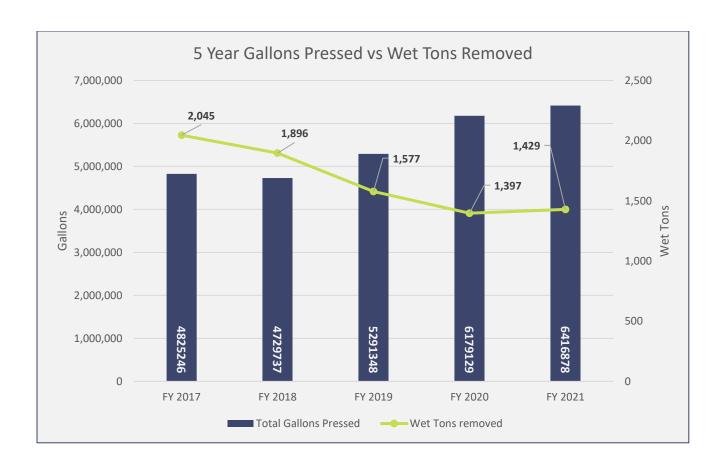
3.6 Solids Removal

SUEZ staff operated the Belt Filter Press for a total of 1,937 hours during FY '21, up 10% from the FY '20 total of 1,754 hours. The average percent solids fed to the BFP from the digestion system was 2.47%, and the BFP produced cake with average percent solids of 21.37%. A total of 6,416,878 gallons pumped to the BFP throughout the year. Solids removed was up 2% from FY '20 with 1,429 wet tons of sludge hauled to the Synagro Thermal Conversion Facility in Woonsocket, RI via South Shore Disposal Corp. 78 sludge dumpsters were hauled from the facility throughout the year.

Date	BFP Run Hours	Total Digester Feed	Total BFP Feed	Digester Overflow	Sludge Weight	Press Feed Solids	Cake Solids	Sludge Pick-ups	Grit Removed
	Hrs	Gals	Gals	Gals	Wet Tons	Avg. %	Avg. %	Dumpsters	Tons
Jul '20	174	426,114	601,924	-175,810	141.09	2.99	22.25	8	
Aug '20	143.8	371,974	425,400	-53,426	89.67	2.92	23.2	5	
Sep '20	183.3	539,761	575,031	-35,270	110.5	2.96	23.51	5	
Oct '20	161.8	728,414	617,960	110,454	126.97	2.21	22.84	8	9.5
Nov '20	149.8	468,303	556,363	-88,060	120.63	3.24	21.62	6	
Dec '20	177	432,663	582,869	-150,206	116.06	1.52	20	7	
Jan '21	129	468,846	421,221	47,625	106.63	2.44	19.27	5	
Feb '21	146	403,368	540,139	-136,771	93.53	2	19.19	6	
Mar '21	190.3	560,191	600,688	-40,497	152.42	2.08	19.16	7	
Apr '21	172.5	585,402	564,039	21,363	142.11	2.48	20.23	8	
May '21	161.5	504,683	470,321	34,362	124.58	2.62	21.62	7	
Jun '21	148.3	447,325	460,923	-13,598	104.53	2.16	23.59	6	
Annual Total	1,937	5,937,044	6,416,878	-479,834	1,429	****	****	78	9
Avg.	161	494,754	534,740	-39,986	119	2.47	21.37	7	****







3.7 Grit and Screenings Removal

Grit removal performed once during the year in October 2020. Suez staff isolated and pumped down the grit chamber, and Wastewater Solutions Inc. was contracted for vactor and removal services. 4,000 gallons were disposed of as liquid septic waste and 9.5 tons of solids were disposed of.

SUEZ staff removed 224 screening bags from the influent headwork's equaling an estimated 672 ft³ of screenings removed. The screenings were disposed of in the South Shore Disposal Corp. on-site dumpster and disposed of at the Covanta SEMASS site in Wareham, MA.



3.8 Compliance Overview

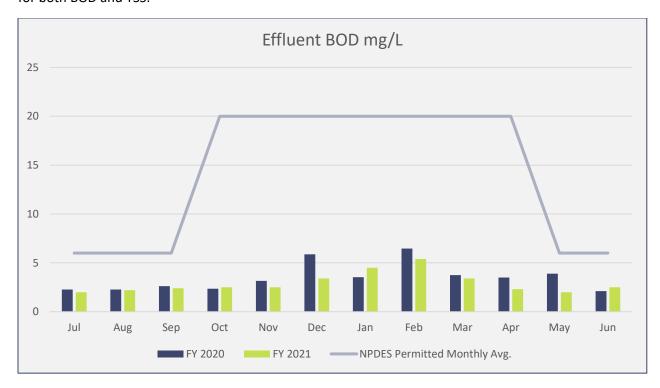
Part of SUEZ Management's 2020 facility goals were to have zero unavoidable compliance issues through the reporting period. We are proud to declare that we achieved this goal throughout the 2021 Fiscal Year. The facility reported 6 NPDES Permit violations throughout FY 2020-2021, all of which were facility monthly average flow exceedances that are beyond the control of the facility staff. High I & I is an ongoing issue at the facility and is responsible for these violations throughout the year. SUEZ looks forward to continue working with the Town of Rockland Board of Sewer Commissioners to help mitigate the I & I issues throughout the collection system.

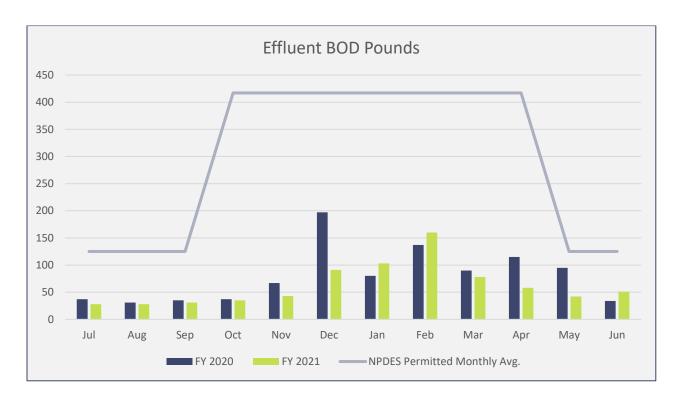
FY 2021 Rockland WWTF Cumulative NPDES Violation Report

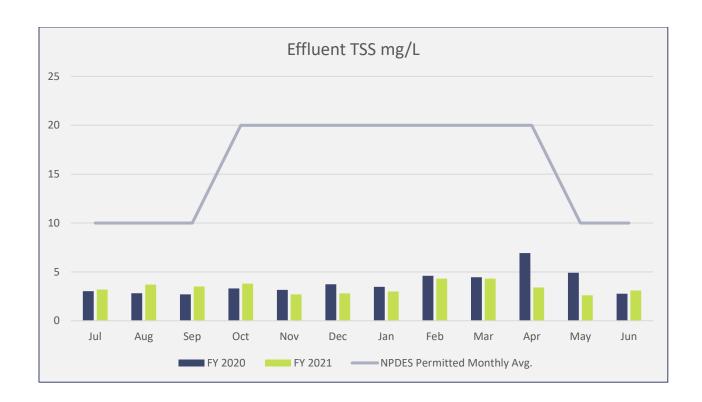
	FLOW	BOD	BOD	BOD	BOD	BOD	BOD	BOD	TSS	TSS	TSS	TSS	TSS	TSS	TSS	SS	SS
MONTH	MGD	% REM.	# / DAY	# / DAY	# / DAY	MG/L	MG/L	MG/L	% REM.	# / DAY	# / DAY	# / DAY	MG/L	MG/L	MG/L	ML/L	ML/L
	MO. AVG.	MO. AVG.	MO. AVG.	WK. AVG.	DAY MAX.	MO. AVG.	WK. AVG.	DAY MAX	MO. AVG.	MO. AVG.	WK. AVG.	DAY MAX.	MO. AVG.	WK. AVG.	DAY MAX	WK. AVG	DAY MAX
			-,	-,	Wint/Sum			-,		-,		Wint/Sum		-,	-,		
PERMIT	2.5	85 %			626 / 209		20/6	30 / 10	85			626 / 313		20 / 10	30 / 15 MG/L	Report	Report
LIMITS	MGD	- , -		#/DAY		MG/L	MG/L	MG/L	%	#/DAY	#/DAY		MG/L	MG/L		ML/L	ML/L
Jul-20	1.6	99	28	28	30	2	2	2	99	43	46	70	3	4	5	0.1	0.1
Aug-20	1.5	99	28	27	38	2	2	3	99	47	45	76	4	5	6	0.1	0.1
Sep-20	1.5	99	31	32	63	2	4	5	99	45	44	53	3	4	4	0.1	0.1
Oct-20	1.7	99	35	48	70	3	3	5	99	52	68	85	4	5	6	0.1	0.1
Nov-20	2.2	99	42	48	61	2	3	4	99	47	54	72	3	3	4	0.1	0.1
Dec-20	3.4	97	91	97	134	3	4	5	98	76	79	183	3	3	6	0.1	0.1
Jan-21	2.8	97	103	131	130	4	5	6	98	70	122	118	3	4	5	0.1	0.1
Feb-21	3.3	95	160	239	287	5	7	8	97	121	148	183	4	5	7	0.1	0.1
Mar-21	2.7	97	78	133	149	3	5	5	97	102	218	250	4	8	9	0.1	0.1
Apr-21	3.1	98	58	71	73	2	3	3	98	85	145	244	3	6	10	0.1	0.1
May-21	2.6	99	42	45	50	2	2	2	98	56	62	80	3	4	4	0.1	0.1
Jun-21	2.4	99	51	52	125	2	4	6	98	64	65	107	3	4	5	0.1	0.1
Total	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

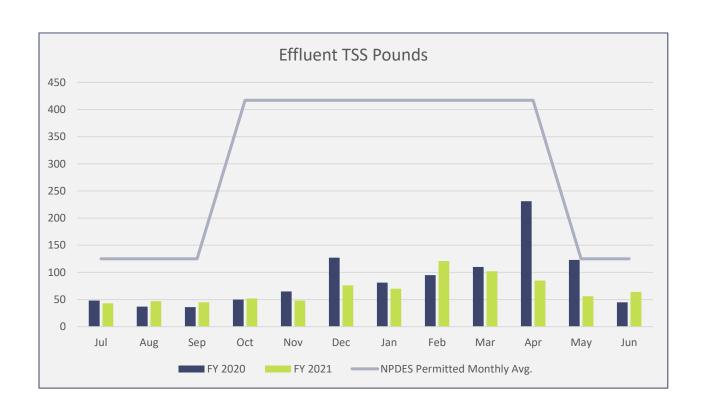
MONTH	pH SU DAY MIN	pH SU DAY MAX	CL2 Res MG/L MO. AVG.	-	FECAL CI/100ml MO. GEO		NH 3 MG/L MO. AVG.	NH 3 MG/L WK.AVG	NH 3 MG/L DAY MAX	PHOS MG/L MO. AVG.	PHOS MG/L DAY MAX	AI UG/L MO. AVG	CU UG/L MO. AVG.	CU UG/L DAY MAX	WET LC50 % Daphnid	WET NOEC % Daphnid
PERMIT	6.5	8.3	0.011	0.019	200	400	3.3/2.5/1	3.3/2.5/1	5.7/5.7/1.5	0.2/1.0	Report	88	12	19	>= 100	>= 99
LIMITS	SU	SU	MG/L	MG/L	#/100	#/100	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	UG/L	UG/L	%	%
Jul-20	6.8	7.4	0.000	0.000	68	204	0.2	0.2	0.2	0.21	0.30	6	7	7	>100	100
Aug-20	6.6	7.6	0.000	0.000	52	92	0.4	0.8	1.4	0.18	0.21	7	6	6		
Sep-20	7.0	7.9	0.000	0.000	91	324	0.3	0.5	8.0	0.12	0.15	10	5	5		
Oct-20	7.0	7.8	0.000	0.000	70	152	0.3	0.5	8.0	0.16	0.21	8	5	5	>100	100
Nov-20	7.3	7.7	0.000	0.000	28	152	0.4	0.5	1.0	0.30	0.50	8	6	6		
Dec-20	7.3	7.6	0.000	0.000	27	92	0.6	0.7	0.9	0.49	0.55	11	7	7		
Jan-21	7.2	7.7	0.000	0.000	25	374	1.7	2.1	2.8	0.76	0.83	11	5	5	>100	100
Feb-21	6.9	7.5	0.000	0.000	32	380	0.8	1.2	2.2	0.74	0.89	16	5	5		
Mar-21	7.1	7.5	0.000	0.000	8	27	0.5	0.8	0.9	0.52	0.82	28	7	7		
Apr-21	7.2	7.5	0.000	0.000	25	202	0.3	0.6	0.6	0.14	0.19	14	6	6	>100	100
May-21	7.2	7.6	0.000	0.000	28	123	0.2	0.4	0.2	0.06	0.11	19	6	6		
Jun-21	7.3	7.6	0.000	0.000	36	284	0.2	0.3	0.3	0.13	0.17	10	5	5		
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

The annual average plant efficiency was 98% removal for Biochemical Oxygen Demand (BOD) and 98% removal for Total Suspended Solids (TSS). The NPDES permit requirement is a minimum of 85% removal for both BOD and TSS.



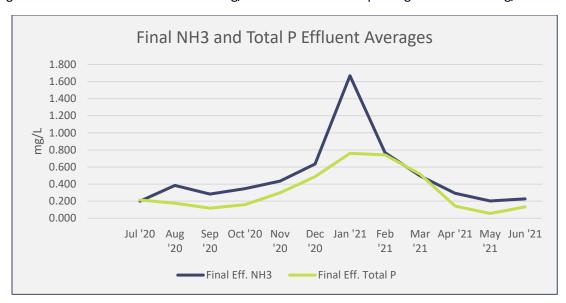






The plant delivered a monthly average of **0.143** mg/L of Final Effluent Total Phosphorous during the summer permit months when the NPDES limit is 0.20 mg/L and a monthly average of **0.561** mg/L during the winter permit months when the NPDES limit is 1.0 mg/L.

The Final Effluent Ammonia during the winter reporting period was **0.725** mg/L while the NPDES permit limit was 3.3 mg/L. During the Spring reporting period with a NPDES limit of 2.5 mg/L, the plant had an average Final Effluent Ammonia of **0.248** mg/L and during the summer months, the plant had an average Final Effluent Ammonia of **0.274** mg/L while the NPDES reporting limit was 1.0 mg/L.





3.9 Wet Weather Management

The Rockland sewer system continues to experience significant infiltration and inflow during rain events. The Rockland High Flow Management Plan was developed many years ago to alleviate peak flows from creating any adverse impacts at the treatment facility. The plan includes setting up the facility's portable diesel powered Godwin pumps during high flows in order to remove flow from the influent line if necessary to protect the treatment process downstream. Staff will utilize these pumps to shave off any excessive flow during wet weather events and fill all offline tanks before implementing the MA DEP approved blending of treated wet weather flow with facility effluent. SUEZ staff implemented the facility High Flow Management Plan on 0 occasions throughout FY 2021, but was required to shave influent flow on 2 occasions. A total amount of 2.438 million gallons was shaved from the facility. The entirety of the 2.438 million gallons pumped back through the facility once the events had ended. Effluent blending was avoided throughout the reporting period via the extensive knowledge and operational procedures performed by SUEZ staff including enhanced solids monitoring at the facility.

All High Flows are reported to the MADEP and EPA via the Sanitary Sewer Overflow (SSO)/Bypass notification form as well as reported internally through the SUEZ Intelex event reporting system.

Date Fiscal Year	Total HFMP Reported	Total MGD (Includes HFMP)	Average Daily Flow MGD	Godwin Flow Shaved MGD (Influent)	Godwin Flow Blended MGD (Effluent)	Total Precipitation Inches
Jul '20		51.09	1.648			1.15
Aug '20		47.79	1.542			2.93
Sep '20		46.42	1.547			1.3
Oct '20		51.60	1.665			5.63
Nov '20		65.24	2.175			4.15
Dec '20		106.77	3.444	1.021		5.83
Jan '21		88.12	2.843			2.14
Feb '21		92.59	3.307			5.06
Mar '21		83.00	2.677			3.15
Apr '21		94.29	3.143	1.417		3.93
May '21		81.02	2.614			5.06
Jun '21		72.83	2.428			4
TOTAL		880.758	2.419	2.438		44.33

Date Fiscal year	Total HFMP Reported	Total MGD (Includes HFMP)	Average Daily Flow MGD	Godwin Flow Shaved MGD (Influent)	Godwin Flow Blended MGD (Effluent)	Total Precipitation Inches
2017	3	813.361	2.235	16.26	13.521	47.96
2018	5	841.807	2.31	53.21	37.063	48.29
2019	2	991.979	2.722	12.73	7.052	64.4
2020	1	926.8	2.532	2.74	0.333	49.95

4.0 ENVIRONMENT, HEALTH, SECURITY AND SAFETY

Suez continues to manage the COVID-19 (Coronavirus) pandemic in an attempt to serve the Town of Rockland with reliable operations and protect the Rockland staff and its visitors. SUEZ has implemented numerous procedures to ensure continuity of the operations. As the COVID-19 continue continues to evolve, SUEZ at the Rockland facility have officially entered the Threat Level 2 guidelines as follows:

- All staff back to normal operating schedules
- Social distancing is being maintained throughout all operations, when not feasible, proper PPE is being worn to protect staff
- All visitors and contractors onsite are required to answer the COVID-19 questionnaire as well as have their temperature checked before entering the facility
- All employees are required to take their temperature daily before reporting to work and are informed to not come to work if they are feeling ill or have a fever
- Floor markings have been placed in all common areas to remind employees to maintain proper 6' social distancing
- Break / Lunches have been staggered to allow social distancing
- All employees have received COVID-19 awareness training

The Rockland Management continues to maintain weekly meetings with upper SUEZ management to manage the pandemic.

4.1 Safety Training

SUEZ is committed to providing its employees with a comprehensive, jobspecific environment, health, security and safety (EHSS) training program. This training program based on individual training needs of each employee with input from the EHSS Manager. Applicable training courses assigned to the individual employees based on job responsibilities. Additionally, based on latest industrial research, SUEZ continues to offer other critical high value training programs. For example, research has indicated that there is no direct correlation in improving recordable injury rates and preventing fatal accidents, and specific and targeted interventions are required for preventing fatal industrial accidents. While SUEZ in North America has never experienced a fatal accident by any employees, the 10 Life Saving Rules implemented at all projects in 2013 continue to be a core element of the safety culture in Rockland.



- Proficiency training completed at the facility for LOTO procedures ensuring that all staff are capable of properly de-energizing equipment safely.
- Safe Work Plan: All routine work procedures performed by the operational staff have a Safe Work Plan. The plan identifies the Hazards and Controls to safely perform the work.
- Unsafe Conditions/Near Miss Program: All Unsafe Conditions or Near Miss incidents are recorded and corrected. A corrective action plan is created for each incident and completed by a set completion date.

4.2 Safety Achievements

The SUEZ staff has completed seven years without an OSHA reportable incident.

4.3 Environmental Compliance

SUEZ has an excellent environmental compliance record that reflects a high level of compliance at all projects including Rockland, MA. One of the highest priorities is complete transparency in all environmental matters at all projects. To accomplish this, the state-of-the-art Water Information Management System (Hach WIMS™) is used to monitor and track all compliance data. This data is reviewed daily, weekly and monthly, any issues are immediately reported, investigated for root-causes, and appropriate corrective and preventive measures are implemented. This data is automatically transferred into a monthly report format for the State, thus eliminating the potential for any data transcription/calculation errors. Due to these and other compliance initiatives, the Rockland Project did not experience any missed samples or reporting deadlines during the period ending June 30, 2021. SUEZ also participates in its parent company's (Paris based SUEZ) annual reporting campaign. Pertinent data from all projects is reported to Paris and is benchmarked against water and wastewater treatment facilities across the world. Any deviations are noted and shared with the management team and are used to optimize plant operations for the clients we serve. This is a high-value service, which SUEZ provides to all its clients at no cost to them.

The following regulatory reports and plans completed during the 2020-2021 operating period:

- Monthly DMR reports due the 15th of the following month
- Monthly UST inspections completed by Dependable Petroleum of Plymouth, MA
- Annual EPA 503 Sludge Report submitted 1/27/2021
- Annual Tier II Report 2/17/2021
- Annual DMR QA Study data results submitted 9/8/2020 and final report issued 10/16/2020
- Annual Emergency Evacuation Plan 9/16/2020
- Annual IPP Report 9/18/2020
- Laboratory and Sampling Plan reviewed

4.4 LABORATORY

In FY 2021, the SUEZ laboratory maintained its certification to perform in-house Fecal Coliforms (MF), Settable Solids, Low Level Total Residual Chlorine and pH examinations of the wastewater constituents.

The SUEZ Rockland laboratory has a professional staff with 26 years of combined experience. Steve Butts, laboratory technician holds a MA Grade 7 wastewater license with 22 years of laboratory experience.

The laboratory reported more than 950 National Pollutant Discharge Elimination System (NPDES) required tests and had zero missed samples. The lab also performed hundreds of other required process control analyses.



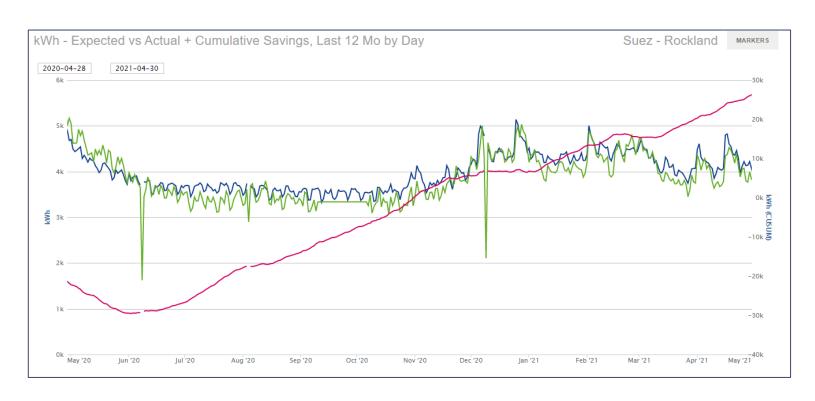
5.0 Electrical and Natural Gas usage

5.1 Electric Overview

The total electrical cost for FY 2020 - 2021 was \$236,213.99. The lift stations accounted for 15% of the total cost at \$35,974.24. The electric cost for the main plant was \$200,213.99. The average cost per million gallons treated was \$239.69. The average KWH consumed per pound of BOD removed was 126 KWH/Lb. BOD.

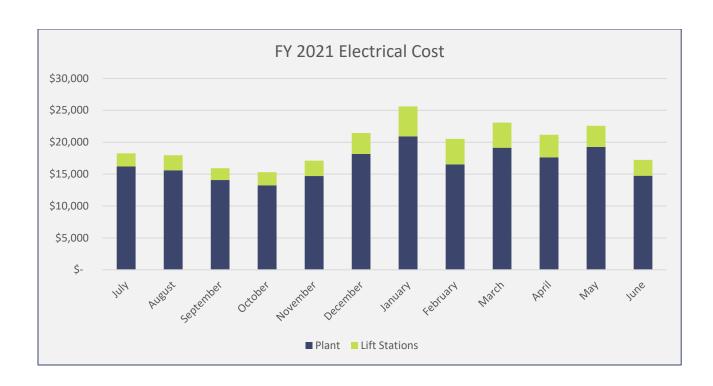
Throughout FY '21, SUEZ staff continued its participation in the 3-year Continuous Energy Improvement Program hosted by National Grid and monitored by Cascade Energy. The program focuses on reducing electrical consumption at participating projects mainly through operation changes and implementations. The second year of this three-year program ended on April 30 2021. At the beginning of the program, SUEZ – Rockland set a goal to reduce the facility's electric consumption by 5% (KWH/MG Treated) on an annual average basis by December 2021 as compared to the 2017-2018 baseline of 1,770 KWH/MG/Month. The target goal was 1,680 KWH/MG/Month. During the FY '21, this goal was achieved with an average of 1,649 KWH/MG/Month.

Beyond the achievement of reducing the average KWH/MG/Month, during the 2nd year of the program, the facility successfully reduced KWH consumption by 3.3%, saving 48,087 KWH as compared to the baseline period. National Grid pays out an incentive of \$.03/ KWH saved as part of the program to the Town of Rockland. SUEZ looks forward to continuing this program not only through the third and final year with Cascade, but continuing beyond the program indefinitely. The Year 2 Performance Energy Savings Report submitted by Cascade energy is attached to this annual report.



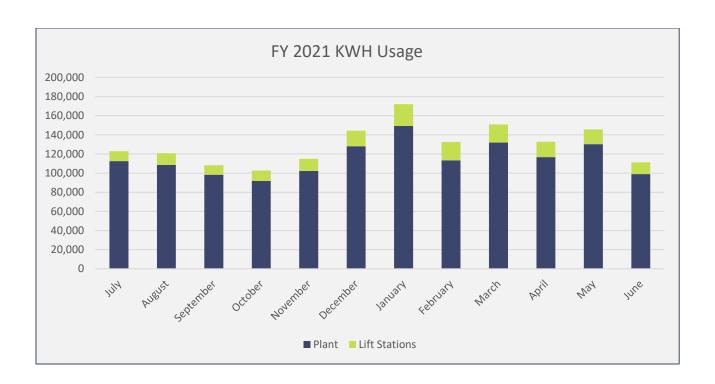
	FY 2021 Electircal Efficiency Overview														
Month	Plant Average Daily Flow MGD	Plant Influent Flow Monthly Total Milion Gal	Plant Flow Variance to Avg.	Plant KWH (Total)	Plant KWH Variance to Avg.	KWH / MG Treated	\$/N	MG Treated	Plant Lbs. BOD Removed	KWH/lb BOD Removed	Off Peak Demand KW	Peak Demand KW	Calculated Rate \$/KWH	Electrical Cost Billed (\$)	
Jul '20	1.65	51.09	-30%	108,600	-6%	2,126	\$	305.51	84,003	1.29	174.00	195.00	0.1437	\$ 15,608.42	
Aug '20	1.54	47.79	-35%	98,400	-15%	2,059	\$	294.21	79,230	1.24	171.00	186.00	0.1429	\$ 14,060.48	
Sep '20	1.55	46.42	-37%	91,800	-20%	1,978	\$	285.05	89,861	1.02	162.00	186.00	0.1441	\$ 13,231.94	
Oct '20	1.66	51.60	-30%	102,300	-11%	1,983	\$	284.81	98,117	1.04	174.00	216.00	0.1437	\$ 14,696.36	
Nov '20	2.17	65.24	-11%	128,100	11%	1,964	\$	278.26	96,589	1.33	231.00	246.00	0.1417	\$ 18,153.52	
Dec'20	3.41	105.75	44%	149,400	30%	1,413	\$	197.81	87,985	1.70	246.00	246.00	0.1400	\$ 20,918.50	
Jan '21	2.84	88.12	20%	113,400	-1%	1,287	\$	187.73	86,723	1.31	222.00	240.00	0.1459	\$ 16,542.75	
Feb '21	3.31	92.59	27%	132,000	15%	1,426	\$	206.69	86,598	1.52	216.00	228.00	0.1450	\$ 19,137.66	
Mar '21	2.68	83.00	13%	116,700	1%	1,406	\$	212.55	87,712	1.33	198.00	216.00	0.1512	\$ 17,641.66	
April '21	3.1	92.87	27%	130,200	13%	1,402	\$	207.56	93,957	1.39	219.00	219.00	0.1481	\$ 19,276.34	
May '21	2.61	81.02	11%	99,000	-14%	1,222	\$	182.10	106,715	0.93	186.00	189.00	0.1490	\$ 14,753.65	
June '21	2.43	72.83	0%	111,600	-3%	1,532	\$	234.04	114,694	0.97	219.00	228.00	0.1527	\$ 17,044.89	
Average:	2.41	73.19	0	115125	0	1649.68		239.69	92682.00	1.26	201.50	216.25	0.15	\$ 16,755.51	

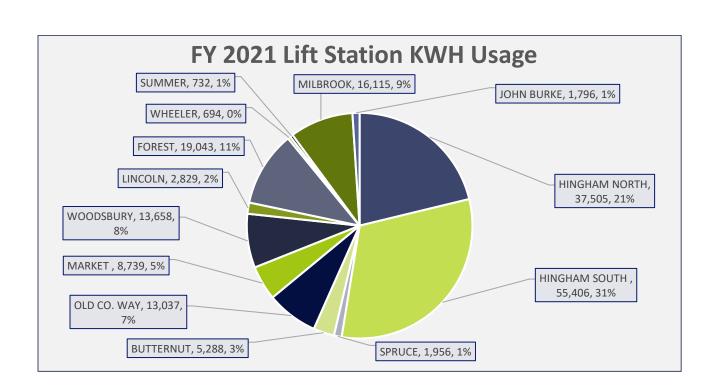
	July	August	September	October	November	December	January	February	March	April	May	June	Total
Plant	16,192.71	15,608.42	14,060.48	13,231.94	14,696.36	18,153.52	20,918.50	16,542.75	19,137.66	17,641.66	19,276.34	14,753.65	\$ 200,213.99
						Statio	ons						
HINGHAM NORTH	421.85	526.11	394.59	420.16	495.35	668.4	959.09	940.9	850.93	611.14	598.64	469.13	\$ 7,356.29
HINGHAM SOUTH	598.37	757.04	544.42	579.7	667.54	899.54	1644.32	1128.72	1133.61	967.65	980.26	741.71	\$ 10,642.88
SPRUCE	34.27	32.42	29.16	30.98	31.76	64.12	57.27	51.39	47.53	51.18	51.14	40.68	\$ 521.90
BUTTERNUT	74.02	90.55	86.94	71.43	62.69	101.02	136.74	121.47	123.39	115.12	105.79	71.14	\$ 1,160.30
OLD CO. WAY	219.07	156.27	157.31	164.56	178.64	230.36	258.32	266.92	336.14	279.68	237.52	207.54	\$ 2,692.33
MARKET	68.28	78.68	65.04	108.13	152.09	196.35	225.04	213.73	206.58	208.11	200.24	137.81	\$ 1,860.08
WOODSBURY	162.05	174.51	147	171.64	193.72	257.5	305.23	282.15	304.55	374.84	281.29	175.02	\$ 2,829.50
LINCOLN	35.93	38.36	36.83	44.85	57.04	69.94	82.84	74.1	74.47	72.6	68.73	47.41	\$ 703.10
FOREST	202.31	232.42	194.01	222.72	249.88	357.96	494.03	458.93	443.56	406.35	370.96	265.98	\$ 3,899.11
WHEELER	19.4	20.02	18.54	19.62	20.35	22.71	22.82	21.43	21.22	23.24	22.83	19.66	\$ 251.84
SUMMER	19.06	20.21	18.77	19.96	20.9	24.54	25.68	22.27	21.22	23.01	23.25	20.62	\$ 259.49
MILBROOK	179.14	194.94	157.31	195.33	239.88	347.5	417.9	335.71	327.29	342.27	321.71	249.95	\$ 3,308.93
JOHN BURKE	28.05	28.94	25.37	29.35	36.78	46.63	60.94	54.68	54.87	47.47	43.54	31.87	\$ 488.49
												Total Plant	\$ 200,213.99
											T	otal Lift Station	\$ 35,974.24
											Total	Electrical Cost:	\$ 236,188.23

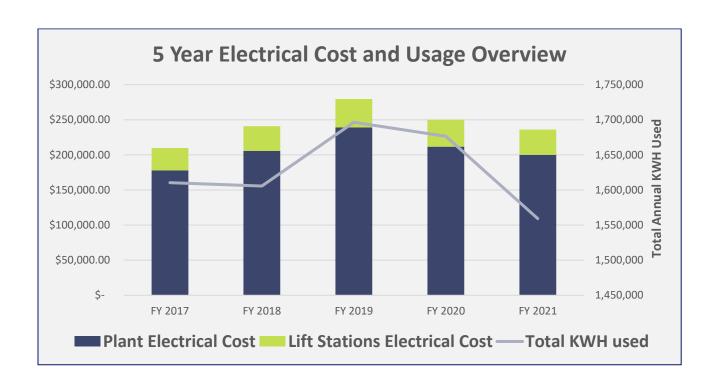


The total KWH usage throughout FY 2020 - 2021 was 1,559,198 KWH. The lift stations accounted for 13% of total KWH using 176,798 KWH. The main plant used 1,382,400 KWH.

FY 2021 KWH Usage													
	July	August	September	October	November	December	January	February	March	April	May	June	Total
Plant	112,500	108,600	98,400	91,800	102,300	128,100	149,400	113,400	132,000	116,700	130,200	99,000	1,382,400
						Stat	ions						
HINGHAM NORTH	2,242	2,835	2,161	3,200	2,673	3,274	4,677	4,504	3,994	2,749	2,812	2,384	37,505
HINGHAM SOUTH	3,200	4,100	3,000	2,306	3,700	5,000	8,300	6,100	6,000	4,900	5,000	3,800	55,406
SPRUCE	119	111	97	106	110	271	235	202	180	190	191	144	1,956
BUTTERNUT	350	444	434	347	292	454	626	541	540	482	459	319	5,288
OLD CO. WAY	1,139	805	829	870	930	1,097	1,225	1,243	1,550	1,234	1,088	1,027	13,037
MARKET	319	379	311	553	784	928	1,061	987	935	907	910	665	8,739
WOODSBURY	829	905	771	910	1,013	1,232	1,456	1,318	1,400	1,669	1,297	858	13,658
LINCOLN	127	140	135	175	236	300	361	312	308	288	272	175	2,829
FOREST	1,048	1,223	1,035	1,197	1,322	1,731	2,386	2,173	2,060	1,813	1,725	1,330	19,043
WHEELER	53	57	50	56	59	65	65	57	55	62	63	52	694
SUMMER	51	58	51	58	62	74	79	61	55	61	65	57	732
MILBROOK	922	1,017	829	1,043	1,272	1,679	2,011	1,577	1,508	1,520	1,490	1,247	16,115
JOHN BURKE	89	94	78	98	135	184	253	218	215	173	156	103	1,796
												Total Plant	1,382,400
												Total Lift Station	176,798
											Т	otal KWH Usage:	1,559,198







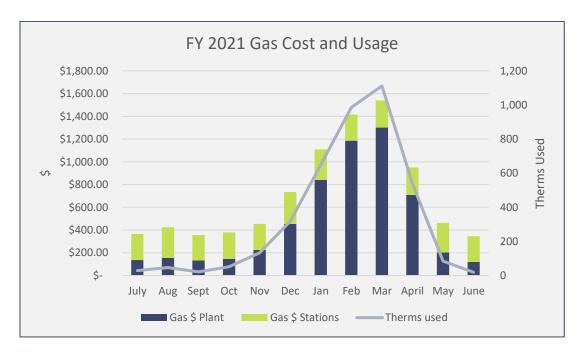
5.2 Natural Gas Overview

The total Natural gas cost for FY 2020-2021 year was \$8,535.73. The lift stations accounted for 34% of the total cost at \$2,928.49. The total cost for gas usage at the main plant was \$5,607.24.

Total therms used in the FY 2020-2021 year was 3,987. The lift stations accounted for 4% of the usage with 168 therms used. The main plant used 3,819 therms throughout the year.

FY 2021 Natural Gas Cost																						
		July		Aug		Sept		Oct		Nov		Dec		Jan	Feb	Mar	April	May		June		Total
Plant	\$	136.71	\$	155.26	\$	131.50	\$	145.56	\$	224.34	\$	454.00	\$	841.54	\$ 1,186.63	\$ 1,301.19	\$ 709.24	\$ 202.44	\$	118.83	\$	5,607.24
Stations																						
Hingham South	\$	125.07	\$	140.14	\$	121.88	\$	122.62	\$	122.00	\$	157.76	\$	143.43	\$ 122.58	\$ 138.03	\$ 129.84	\$ 137.96	\$	120.56	\$	1,581.87
Old Country Way	\$	26.70	\$	30.39	\$	26.24	\$	32.02	\$	27.22	\$	32.44	\$	32.11	\$ 27.49	\$ 26.58	\$ 29.34	\$ 32.52	\$	29.21	\$	352.26
Forest	\$	50.11	\$	57.61	\$	50.35	\$	50.35	\$	54.57	\$	57.87	\$	59.57	\$ 49.96	\$ 49.37	\$ 53.36	\$ 57.06	\$	48.93	\$	639.11
Milbrook	\$	26.70	\$	41.04	\$	26.26	\$	28.59	\$	25.50	\$	32.58	\$	31.40	\$ 28.24	\$ 25.02	\$ 28.80	\$ 32.71	\$	28.41	\$	355.25
Total Stations:	\$	228.58	\$	269.18	\$	224.73	\$	233.58	\$	229.29	\$	280.65	\$	266.51	\$ 228.27	\$ 239.00	\$ 241.34	\$ 260.25	\$	227.11		
																		Total	Lif	t Station	\$	2,928.49
																			To	tal Cost:	\$	8,535.73

FY 2021 Natural Gas Therms Used														
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	Total	
Plant	20	24	15	34	121	291	643	979	1,088	533	68	3	3819	
Stations														
Hingham South	6	4	2	3	2	19	2	2	20	1	5	5	71	
Old Country Way	0	0	0	7	1	2	1	1	1	1	3	4	21	
Forest	1	2	2	2	7	2	2	1	2	1	3	2	27	
Milbrook	2	17	2	5	2	3	2	3	1	2	5	5	49	
Total Stations:	9	23	6	17	12	26	7	7	24	5	16	16		
Total Lift Station												168		
											То	tal Therms:	3,987	

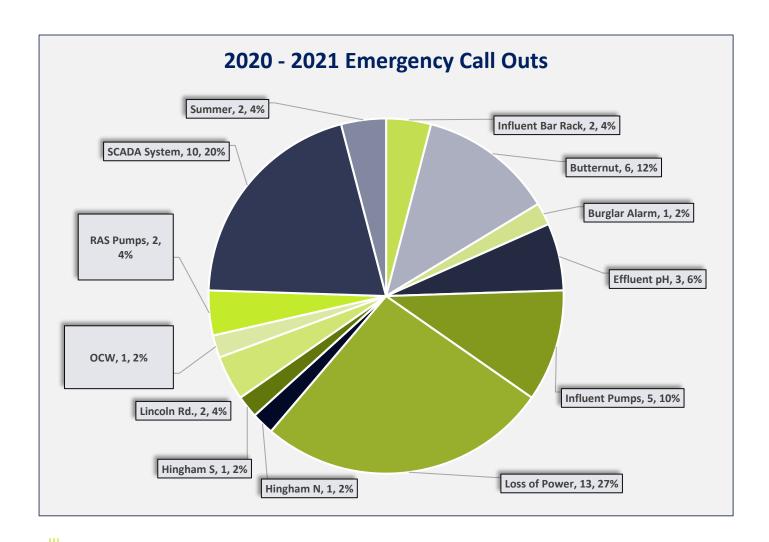




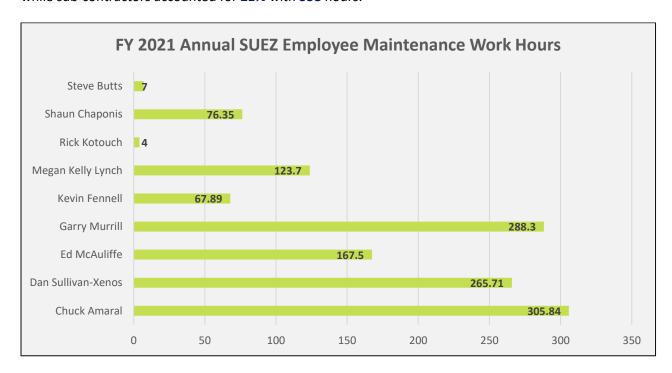
6.0 Maintenance

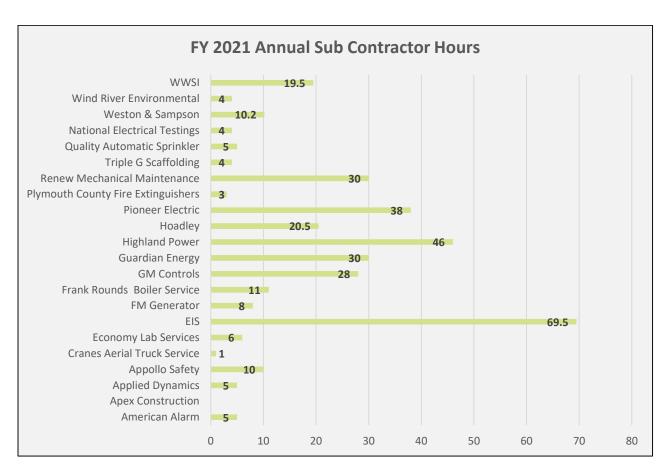
6.1 Work Order Overview SUEZ staff completed 2,239 maintenance work orders this year; of this amount, **164** were corrective maintenance work orders, the remaining amount of **2,063** were preventative maintenance work orders. 12 work orders were skipped during the reporting period. Of the 164 corrective work orders, 50 were due to emergency call outs.





1,664 maintenance related work hours were recorded this year. SUEZ staff accounted for 1,306 hours, while sub-contractors accounted for 21% with 358 hours.





2020 - 2021 Top Five Equipment Related Work Order Hours							
Equipment	WO Hours						
Influent Pump #4	55						
BFP – Belt Filter Press	54						
Spruce Street Ejector Station	47						
Lime Auger	44						
SCADA System Maintenance	40						

6.2 Significant Repairs, Replacements, and Installations

A VFD was installed on the influent grit blower in July 2020 in order give SUEZ staff more control

of the blower speed and reduce energy costs.

- The existing eyewash units in the chemical batching room were replaced with new units and the Ferric unit was repositioned inside the containment area for easier access in the event of emergency use in July 2020.
- The pump rail brackets for both Hingham South Pumps were repositioned and repaired with new brackets installed by Renew Mechanical Maintenance in July 2020.



- Influent Pump #4 (slot 2) was pulled and inspected by Associated Electro Mechanics who found no issues with pump or internal cooling system. The pump was returned back to the facility and re-installed into slot 3 on 8/19/20 and has run with no issues.
- A new automated lime control system was installed in September 2020. The new system automatically fills and batches the lime slurry and is monitored through the facility SCADA system. The system allows staff to more closely monitor the lime system at the facility.
- A new Emergency Generator was installed at the Old Country Way lift station on 9/21/20

- Emergency Generator run status and transfer switch status alarms were integrated into the facility SCADA system for all lift stations in September 2020.
- A pH probe was installed at the influent parshall flume to continuously record the incoming pH level of the raw wastewater and was tied into the facility SCADA system.
- In January 2021, Blanchard Electric rebuilt Influent Pump #3. The rebuild included new bearings,
 - new seals, motor cleaned, steamed and baked. The pump was re-assembled, tested, and returned to the facility where it is currently held as a spare pump.
- The existing Digester Sludge Transfer Pump #1 was replaced with a new Seepex Progressive Cavity Pump on 2/15/21.
- On 2/24/21, a new pump purchase was completed and installed at Woodsbury Road.
- The Lime Slurry Tank 1 Mixer Motor was replaced on 2/16/21.
- On March 3rd 2021, The BFP was taken offline for multiple maintenance items:
 - Removed and repaired backside top belt scraper and installed new bolts
 - Replaced upper steering piston with new piston
 - Replaced 2 sludge conveyor rollers with new rollers
 - Removed and repaired conveyor scraper mounting bracket
 - Removed and cleaned upper wash box nozzles.
 - Upper BFP belt replaced on 05/24/21
- In March 2021, Guardian Energy replaced all main facility lighting with new LED lights. This project was completed as part of an energy grant through the Massachusetts Green Communities Fund.
- In April 2021, new wireless DO signal units were installed on Aerators 1-2, 1-3, and 1-4. This allows for reliable and continuous monitoring of the tank DO levels through the facility SCADA system.
- The mechanical seal on Digester Sludge Transfer Pump #2 was replaced on 04/15/21
- After much research into a new mixing system for the OCW, lift station Wet Well. SUEZ performed a trial operation of a new Ixom Pneumatic mixing system for 90 days. The unit performed beyond expectations and was purchased at percentage of competing units and permanently installed at the lift station.
- The motor for compressor #2 at the Butternut Ejector Station was replaced on 05/06/21
- The primary scum well mixer was repaired with new mixing blades installed by Renew Mechanical maintenance on 06/21
- A new PLC was installed on the Influent Wash Press control panel after failure of original PLC.



New Gillette Emergency Generator at Old County Way

6.3 Inspections & Calibrations

- Monthly UST inspections completed
- Annual laboratory equipment calibrations completed 02/01/2021
- Annual Process Meter calibrations completed 3/15/2021
- Quarterly gas detector calibrations completed
- Quarterly back flow inspections completed
- Annual flow meters completed 3/15/2021
- Annual OSHA hoist inspections completed in July 2020
- Annual fire extinguisher inspections completed 12/14/2020
- Annual Main Facility fire alarm inspection completed on 10/27/2020
- Annual Generator Preventative Maintenance and inspections completed by M&S Electric in July 2020
- Annual Transfer Switch Preventative Maintenance and inspections were completed by National Electric Testing on 9/16/20
- Oil analysis samples for all aerator gearboxes and secondary clarifier drives completed in August March and May 2021

6.4 Emergency Generators

SUEZ staff tracked generator test and emergency run hours for all generators throughout FY 2021. The staff also continued to monitor and maintain the eight emergency backup generators throughout FY 2021. Daily visual inspections were completed on the units as well as weekly test runs while not under load and monthly load tests. M&S Electric Services completed annual Preventative Maintenance and Inspections.

In September 2020, a new generator was purchased and installed at the Old Country Way Lift station to replace the existing unit that failed. The new unit is a Gillette SP-410-3-4N2, 40 KW. A new transfer switch was also installed with the new unit.



The following significant maintenance items were performed on the generators in 2020 - 2021:

Main Facility Generator:

- 7/5/20 New batteries purchased and installed
- 5/26/21 FM Generator replaced block heater unit and heat pump with new centrifugal pump style block heater. Heat pump was removed form service and new electrical was ran for new unit

Millbrook Generator:

- 7/9/20 Highland Power installed new radiator on generator
- 5/5/21 SUEZ installed new block heater

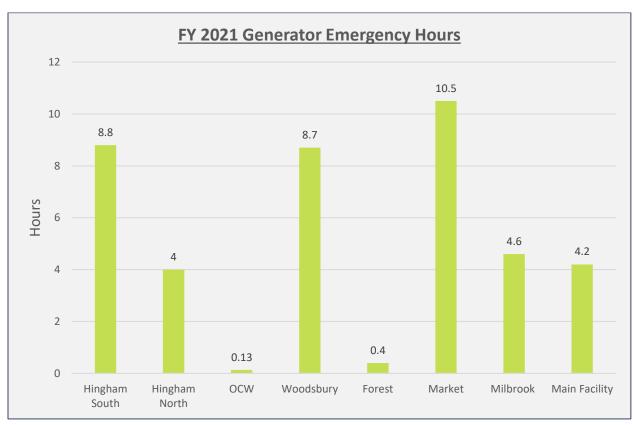
Hingham North Generator:

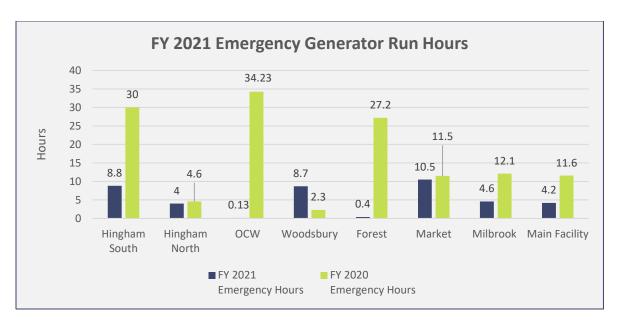
5/27/21 – Highland Power installed new water pump and block heater

M & S Electrical Services completed annual preventative maintenance and inspections on all generators on 7/2/2020.

National Electrical Testing and Service completed annual Transfer switch inspections on 9/16/2020.

The Market St. generator had the most emergency run hours in FY '21 with a total of 10.5 hours while the Old Country Way Generator had the least amount of emergency hours with less than 1 hour.





6.5 Upcoming Projects in 2021-2022

- Replace the existing Primary Effluent Sampler with a new ISCO 5800 automated sampler
- Convert Butternut pump station from a dry pit ejector station to a wet well
- SUEZ staff will work with the Town of Rockland for the upcoming CWMP
- SUEZ completed the technical specifications with Hallam ICS for the digester boiler replacement project. Bid advertisements are scheduled for mid-September 2021 and installation will be completed in the Summer of 2022.
- SUEZ to purchase and install a new Digester Sludge Transfer Pump in the New Digester building replacing the existing Marlow Plunger Pump with a new Seepex Progressive Cavity Pump
- SUEZ staff will continue to participate in the National Grid Continuous Energy Improvement (CEI) Program to continue to identify and implement energy efficient operational changes at the facility.

Financial Review

R&M 2020-2021 Account Overview

ltem	Budget	Spent FY 2019	Remaining
R & M (Project)	\$100,000	\$99,993.03	\$6.97

Significant R&M Purchases

- Replaced Router for SCADA at OCW and purchased another Router for inventory for \$2,800.00
- Pioneer Electrical wired all Pump Station Generators to the plant SCADA system for \$1,995.00
- EIS wired and programmed Generator Transfer Switches for \$1,666.00
- Soares Pumping vactored and disposed material to the Primary Scum Pit (2 trucks) for \$3,760.00

- WWSI vactored Grit Chamber (1 truck) for \$2,330.50
- Apollo Safety annual onsite meter calibration contract for \$2,250.00
- Frank I Rounds onsite to troubleshoot and replace Digester Boiler electrode for \$1,664.85
- Seacoast Supply inspected HSS Pump (unrepairable) for \$2,000.00
- EIS installed two wireless DO Probes at 2-2 aerator and NIT Building for \$2,613.00
- Purchased Commercial Chipper for \$1,949.00
- Annual Flow Meter Calibrations & Ferric Level Transducer for \$2,239.75
- Replaced Digester LEL Sensor for \$1,650.00
- Semi-Annual UST Inspection Contract for \$1,050.00
- Replaced/Repaired OCW and Forest Pump Station Backflows for \$2,148.52
- Purchased Wet Well Mixer at OCW Pump Station for \$3,510.00

Manager's 2021-2022 Goals

- 1. Continue to promote the safe work culture at the facility through leadership, communication, and training to have zero injuries in 2021-2022
- 2. Continue to excel at producing high quality effluent while striving for zero unavoidable NPDES violations
- 3. Continue to work with the Town of Rockland and the selected engineering firm on developing and executing an upgrade of significant processes at the facility through the upcoming CWMP.
- 4. Continue to work on operating the project as efficiently as possible and to maintain or reduce the usage of electricity based on a KWH per Million Gallons treated baseline.