Influent Flow Report Page 1 of 1

LEWES WASTEWATER TREATMENT PLANT

Influent Flow Report

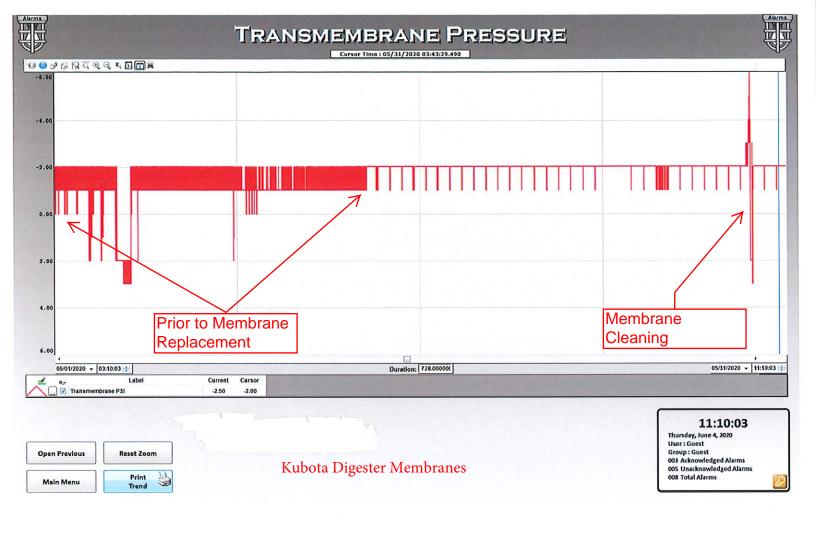
Influent Flow

Time	Flow
5/1/2020	666000
5/2/2020	647000
5/3/2020	644700
5/4/2020	865400
5/5/2020	167700
5/6/2020	596600
5/7/2020	309500
5/8/2020	589200
5/9/2020	567500
5/10/2020	516400
5/11/2020	524600
5/12/2020	500400
5/13/2020	682700
5/14/2020	856900
5/15/2020	886400
5/16/2020	893700
5/17/2020	871800
5/18/2020	845000
5/19/2020	840000
5/20/2020	844900
5/21/2020	859500
5/22/2020	898800
5/23/2020	982500
5/24/2020	912900
5/25/2020	913000
5/26/2020	879000
5/27/2020	861600
5/28/2020	859200
5/29/2020	900200
5/30/2020	917600
5/31/2020	904900
Total Flow :	23205600

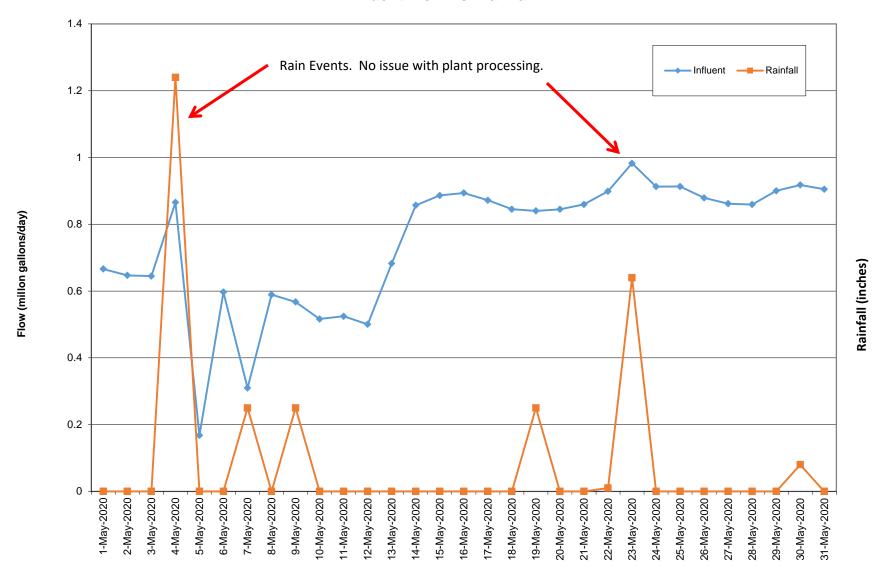
LEWES WASTEWATER TREATMENT PLANT Effluent Flow Report

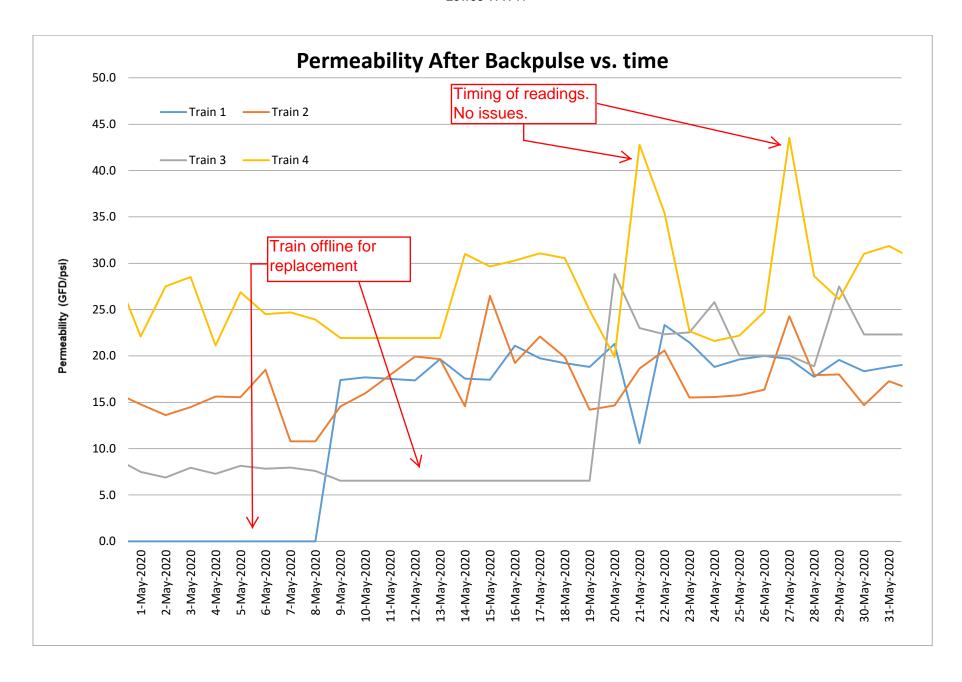
Effluent Flow

Time	Flow
5/1/2020	690600
5/2/2020	668500
5/3/2020	672600
5/4/2020	741900
5/5/2020	247400
5/6/2020	247400
5/7/2020	559700
5/8/2020	561300
5/9/2020	603900
5/10/2020	605200
5/11/2020	566800
5/12/2020	575600
5/13/2020	552900
5/14/2020	818300
5/15/2020	881600
5/16/2020	884000
5/17/2020	862600
5/18/2020	838500
5/19/2020	824800
5/20/2020	834400
5/21/2020	847800
5/22/2020	890300
5/23/2020	937600
5/24/2020	932200
5/25/2020	900900
5/26/2020	951500
5/27/2020	771100
5/28/2020	854500
5/29/2020	907200
5/30/2020	898300
5/31/2020	905800
Total Flow:	23035200



Influent Flow Vs. Rainfall

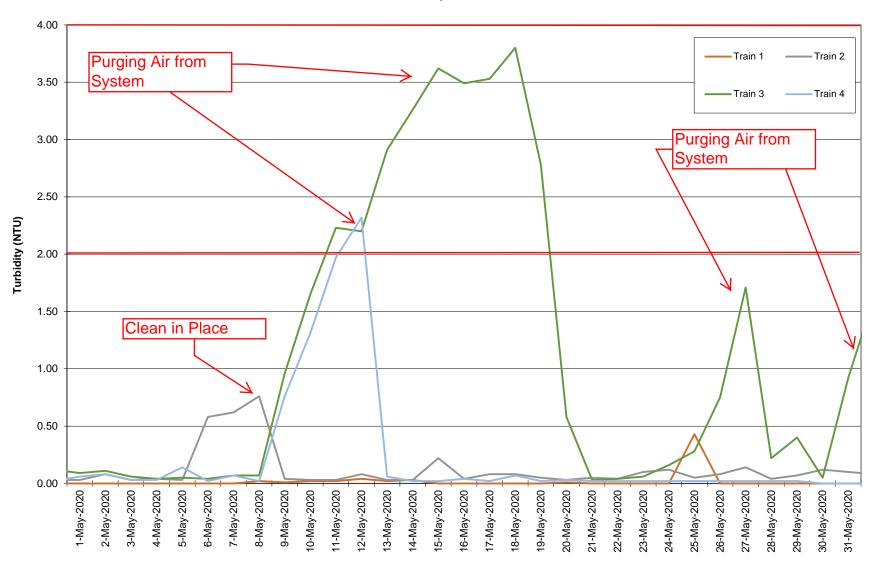




TMP After Back Pulse vs. time



Turbidity Profile



PUMP	· S7	ATION	196	
May-2		PS 196		
,		METER	24 HOUR	
		READING	FLOW	
FRI	1	42762140	0.117170	
SAT	2	42879310	0.119030	
SUN	3	42998340	0.134350	
MON	4	43132690	0.125990	
TUE	5	43258680		Flow to Wolfe Neck
WED	6	43373380		
THUR	7	43502510		
FRI	8	43613360		
SAT	9	43722110		
SUN	10	43845280		
MON	11	43961060		
TUE	12	44073150		
WED	13	44184680	0.286300	Flow to Lewes
THUR	14	44470980	0.353290	
FRI	15	44824270	0.374280	
SAT	16	45198550	0.381660	
SUN	17	45580210	0.372820	
MON	18	45953030	0.361720	
TUE	19	46314750	0.359930	
WED	20	46674680	0.359820	
THUR	21	47034500	0.369410	
FRI	22	47403910	0.380890	
SAT	23	47784800	0.395990	
SUN	24		0.395170	
MON	25	48575960	0.388470	
TUE	26		0.376460	
WED	27	49340890	0.376650	
THUR	28	49717540	0.364680	
FRI	29	50082220	0.388520	
SAT	30	50470740	0.394980	
SUN	31	50865720	0.388870	
			/ /	
TOTA			7.566450	
COUN			23	
AVERA	6E		0.328976	
MINIM	LJAA		0.117170	
MAXIM			0.117170	
WAYTW	IO/VI		0.370790	

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMITTEE NAME/ADDRESS (include Facility Name/Location if different):

DISCHARGE MONITORING REPORT (DMR)

Howard Seymour Water Reclamation Plant NAME **ADDRESS** 116 American Legion Road, Lewes, DE 19958 US **FACILITY** Howard Seymour Water Reclamation Plant

DE0021512 PERMIT NUMBER

001 DISCHARGE NUMBER

REPORT DESIGNATOR DATA ENTRY COMPLETE

A 6/3/2020 daveweed69



LOCATION 116 American Legion Road, Lewes, DF 19958 US

FROM 2020 05 01 TO 2020 05 31

MONITORING PERIOD

REPORT SUBMITTED BY

STATUS OF SUBMISSION Submitted for Signature

LOC	ATION 116 American Lo	egion Road, Lewe	es, DE	19958 US	FROM	2020 05 ()1 10	2020 05 31	STATUS OF SUBMISS	Subi	_	for Signature	
	PARAMETER		NDI	QUAN	TITY OR LOADING		(QUALITY OR CONC	ENTRATION		NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYP
#				AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
1/1	Flow	SAMPLE MEASUREMENT		0.7431	0.9515	Mil Gal/Day					0	99/99	RCOTOT
	Gross Effluent (50050)	PERMIT REQUIREMENT	-	No Limit Monitoring Reqd	No Limit Monitoring Reqd	Mil Gal/Day	No Monitoring Required	No Monitoring Required	No Monitoring Required	-	-	99/99	RCOTOT
1/2	Dissolved oxygen (DO)	SAMPLE MEASUREMENT				-	2.32		6.23	mg/l	0	99/99	Imersion
	Gross Effluent (00300)	PERMIT REQUIREMENT	-	No Monitoring Required	No Monitoring Required	-	No Limit Monitoring Reqd	No Monitoring Required	No Limit Monitoring Reqd	mg/l	-	99/99	Imersion
1/3	рН	SAMPLE MEASUREMENT				-	7.2		7.7	Std pH Units	0	01/01	Grab
	Gross Effluent (00400)	PERMIT REQUIREMENT	-	No Monitoring Required	No Monitoring Required	-	6	No Monitoring Required	9	Std pH Units	-	01/01	Grab
1/4	Enterococcus	SAMPLE MEASUREMENT				-		<1	<1	CFU/100 ML	0	01/07	Grab
	Gross Effluent (31639)	PERMIT REQUIREMENT	-	No Monitoring Required	No Monitoring Required		No Monitoring Required	10	104	CFU/100 ML	-	01/07	Grab
1/5	BOD5	SAMPLE MEASUREMENT		<3.41	<70.16	lbs/Day		<4.35	10.2	mg/l	0	01/07	Composite 24
	Gross Effluent (00310)	PERMIT REQUIREMENT	-	188	288	lbs/Day	No Monitoring Required	15	23	mg/l	-	01/07	Composite 24
1/6	BOD5	SAMPLE MEASUREMENT				-		116	159	mg/l	0	01/07	Composite 24
	Raw Sewage (00310)	PERMIT REQUIREMENT	-	No Monitoring Required	No Monitoring Required	-	No Monitoring Required	No Limit Monitoring Reqd	No Limit Monitoring Reqd	mg/l	-	01/30	Composite 24
1/7	TSS	SAMPLE MEASUREMENT		<0.25	<3.97	lbs/Day		<0.39	<0.5	mg/l	0	01/07	Composite 24
	Gross Effluent (00530)	PERMIT REQUIREMENT	-	188	288	lbs/Day	No Monitoring Required	15	23	mg/l		01/07	Composite 24

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL	[ATTACH DIGITAL SIGNATURE RECEIPT FROM CROMERN]	TELEPHONE	DATE			
	PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE	CROMERRI					
		SIGNATURE OF PRINCIPAL EXECUTIVE					
TYPED OR PRINTED	INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	OFFICER OR AUTHORIZED AGENT		YEAR	МО	DAY	

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMITTEE NAME/ADDRESS (include Facility Name/Location if different):

DISCHARGE MONITORING REPORT (DMR)

Howard Seymour Water Reclamation Plant NAME 116 American Legion Road, Lewes, DE 19958 US ADDRESS

DE0021512 PERMIT NUMBER

001 DATA ENTRY COMPLETE DISCHARGE NUMBER

REPORT DESIGNATOR

6/3/2020

Α

FAC	ILITY Howard Seymou	ır Water Reclama	ition P	lant	7742-04	MONITO	ORING PERIOD	V CONTRACTOR OF THE CONTRACTOR	REPORT SUBMITTED	BY day	eweed	69	
LOC	ATION 116 American L	egion Road, Lewe	es, DE	19958 US	FROM	2020 05 0	STATUS OF SUBMISS	ION Sub	mitted	for Signature			
	PARAMETER		NDI	QUAN	TITY OR LOADING	3		QUALITY OR CON	CENTRATION		NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
#				AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		REEK KIND	
2/1	TSS	SAMPLE MEASUREMENT			3407104	-		130.23	332	mg/l	0	01/07	Composite 24
	Raw Sewage (00530)	PERMIT REQUIREMENT		No Monitoring Required	No Monitoring Required	-	No Monitoring Required	No Limit Monitoring Reqd	No Limit Monitoring Reqd	mg/l	-	01/30	Composite 24
2/2	Total Nitrogen	SAMPLE MEASUREMENT		5.2	5.2	lbs/Day		2.52	2.52	mg/l	0	01/30	Composite 24
	Gross Effluent (00600)	PERMIT REQUIREMENT	-	100	No Limit Monitoring Reqd	lbs/Day	No Monitoring Required	8	No Limit Monitoring Reqd	mg/l	-	01/30	Composite 24
2/3	Phosphorus, Total	SAMPLE MEASUREMENT		4.86	5.06	ibs/Day		1.71	2.45	mg/l	0	02/30	Composite 24
	Gross Effluent (00665)	PERMIT REQUIREMENT	-	25	No Limit Monitoring Regd	lbs/Day	No Monitoring Required	2	No Limit Monitoring Reqd	mg/l	-	01/30	Composite 24

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WITHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEGG AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AVAREE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TYPED OR PRINTED

[ATTACH DIGITAL SIGNATURE RECEIPT FROM CROMERR]

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

PRINTED:

TELEPHONE DATE YEAR MO DAY

NDI (No Data Indicator) Reasons: 8 - No Sample (Other): 9 - No Sample (Monitoring Not Required this Monitoring Period); B - Not Detected; C - No Sample (No Discharge)

Submission Receipt

Copy of Record: 53898 Confirmation ID: d20206453898

Site: Howard Seymour Water Reclamation

Site ID: DE0021512

Plant

Submission: Discharge Monitoring Report for DE0021512 Howard Seymour

Water Reclamation Plant Outfall: 001, May, 2020

File Name: 20205-2385-60749445 File Type: .pdf

Report: DMR Status: Signed

Hash of Data Document:

e0441e15e4a4436d67da14a8edd0a4467815653098e6ee7b3577f9a3332c0d30

Data Entry Completed: 6/3/2020 By: David Weed (daveweed69)

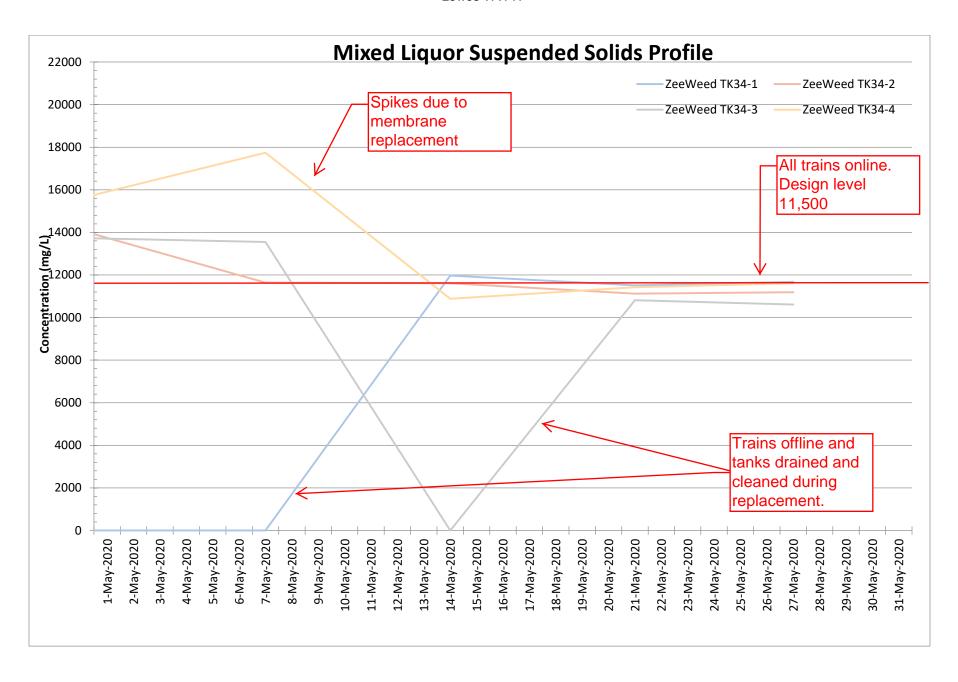
1:49 PM

EMail of Submittor: dweed@tuiwater.com From: 208.87.236.201

Signed: 6/4/2020 2:11 PM By: David Weed (daveweed69)

EMail of Signator: dweed@tuiwater.com From: 208.87.236.201

Token Used When Signed: gU6k+3cT05loxNndxavwCkWwhu2n8jEcEHCmImGBoqc=



MONTHLY OPERATIONS REPORT

SITE: LEWES WWTF

Page 1 of 2

MAY

2020

GENERAL INFORMATION					- ugu - ur	INAL EFFL	HENT OF	ITEALL O	01 Du	n Samples	s 1 per wee	L
	GENE			IION				THE RESIDENCE AND ADDRESS OF THE PARTY OF TH				
DATE	DAY	AIR deg F	Prec in,	WEATHER	EFF FLOW MGD	pH S.U.	p.H DUP	D.O., mg/l	TEMP.	TIME	INITIALS	TEST
1	f	58	t	rain	0.6906	7.55	DOI	6.16	19.3	9:15	DBW	9:17
	S	65	0.00	clear	0.6685	7.48		5.92	19.0	11:05	KB	11:15
3	S	72	0.00	cloudy	0.6726	7.53		6.06	19.6	15:06	KB	15:10
4		66	1.24	p cloudy	0.7419	7.56	7.56	5.90	20.5	8:25	DBW	8:38
5	m t	55	0.00	clear	0.2474	7.57	7.50	6.06	19.5	10:40	JT	10:50
6	W	50	0.00	rain	0.2474	7.66		6.18	18.3	7:45	JT	7:59
7	t	47	0.00	p cloudy	0.5597	7.56		6.11	17.8	7:10	DBW	7:19
8	f	57	0.00	clear	0.5613	7.60		6.23	19.1	8:55	JT	9:02
9	s	42	0.00	clear	0.6039	7.37		2.97	16.5	10:29	GL	10:37
10	S	56	0.00	clear	0.6052	7.39		4.30	16.7	11:50	GL	11:52
11	m	57	t	p cloudy	0.5668	7.52	7.52	5.23	17.5	8:10	DBW	8:14
12	t	47	0.00	clear	0.5756	7.48	7.02	5.16	16.9	8:40	JT	8:48
13	w	54	0.00	clear	0.5730	7.52		5.58	19.3	10:44	DBW	10:47
14	t	50	0.00	clear	0.8183	7.37	1	3.88	19.9	9:28	DBW	9:37
15	f	66	0.00	clear	0.8816	7.44	†	5.05	20.5	8:45	DBW	8:51
16	s	74	0.00	clear	0.8840	7.47		4.27	21.0	9:38	DBW	9:47
17	s	61	0.00	cloudy	0.8626	7.41		4.49	20.3	10:15	DBW	10:25
18	m	51	t	cloudy	0.8385	7.44	7.44	4.33	19.5	8:32	DBW	8:43
19	t	55	0.25	cloudy	0.8248	7.57		4.00	18.9	7:35	JT	7:40
20	w	54	0.00	cloudy	0.8344	7.41		3.96	18.8	9:00	DBW	9:13
21	t	54	0.00	p cloudy	0.8478	7.43		4.47	19.3	8:24	DBW	8:35
22	f	62	0.01	drizzle	0.8903	7.38		4.41	19.5	9:55	DBW	10:04
23	s	71	0.64	clear	0.9376	7.31		3.43	20.6	12:30	GL	12:33
24	s	54	0.00	cloudy	0.9322	7.18		3.16	19.5	11:25	GL	11:30
25	m	58	0.00	cloudy	0.9009	7.23	7.23	2.98	19.8	12:25	GL	12:26
26	t	56	t	fog	0.9515	7.32		2.32	21.3	10:54	DBW	11:02
27	w	58	0.00	cloudy	0.7711	7.55		4.43	19.9	9:08	DBW	9:16
28	t	52	0.00	cloudy	0.8545	7.41		3.93	20.6	9:25	JT	9.34
29	f	74	t	p cloudy	0.9072	7.49		3.51	21.8	8:47	DBW	8.56
30	s	78	0.08	sun/cloud	0.8983	7.34		3.28	21.6	11:00	RC	11:07
31	s	68	0.00	sun/cloud	0.9058	7.40	727	3.99	21.2	11:36	RC	11:41
TOTAL			1453		23.0352							
AVERA	GE	59	0.10		0.7431			4.57	19.5			
MAXIM	UM	78	1.24		0.9515	7.7		6.23	21.8			
MINIML	JM	42	0.00		0.2474	7.2		2.32	16.50			

SITE:	LEW	ES WW	TF					1	Page 2 of	2					M.	AY	2020	SITE:	LEWES	WWTF						
						- Krama				F	INAL EFF	LUENT O	UTFALL (001						INF						
		В	OD5	1	rss	ENTEROC.		то	TAL P	TO	TALN	AMMO	NIA AS N	NITRATE+	NITRITE AS N	7	TKN	DATE	DAY			BOD5			TSS	
DATE	DAY	mg/l	lbs/day	mg/l	lbs/day	Col/100 ml	Logarithm	mg/l	lbs/day	mg/l	lbs/day	mg/l	lbs/da	/ mg/l	lbs/day	mg/l	lbs/day			MGD		mg/l	lbs/day		mg/l	lbs/day
1	f		0.00		0.00				0.00		0.00		0.00		0.00		0.00	1	f	0.6660			0.00			0.00
2	s		0.00		0.00				0.00		0.00		0.00		0.00		0.00	2	s	0.6470			0.00			0.00
3	s		0.00		0.00				0.00		0.00		0.00		0.00		0.00	3	s	0.6447			0.00			0.00
4	m		0.00		0.00				0.00		0.00		0.00		0.00		0.00	4	m	0.8654			0.00			0.00
5	t	< 2.40	< 4.95	< 0.50	< 1.03			2.45	5.06	2.52	5.20	0.06	0.12	2.02	4.17	0.50	1.03	5	t	0.1677	<	100.00	139.86		38.00	53.15
6	w		0.00		0.00	< 1			0.00		0.00		0.00		0.00		0.00	6	w	0.5966			0.00			0.00
7	t		0.00		0.00				0.00		0.00		0.00		0.00		0.00	7	t	0.3095			0.00			0.00
8	f		0.00		0.00				0.00		0.00		0.00		0.00		0.00	8	f	0.5892			0.00			0.00
9	S		0.00		0.00				0.00		0.00		0.00		0.00		0.00	9	S	0.5675			0.00			0.00
10	S		0.00		0.00				0.00		0.00		0.00	le l	0.00		0.00	10	s	0.5164			0.00			0.00
11	m	1	0.00		0.00				0.00		0.00		0.00		0.00		0.00	11	m	0.5246			0.00			0.00
12	t	< 2.40		< 0.50	2.40			0.97	4.66		0.00		0.00		0.00		0.00	12	t	0.5004		84.00	350.56		68.00	283.7
13	w		0.00		0.00	< 1			0.00		0.00		0.00		0.00		0.00	13	w	0.6827			0.00			0.00
14	t		0.00	1	0.00		South Control		0.00		0.00		0.00		0.00		0.00	14	t	0.8569			0.00			0.00
15	f		0.00		0.00				0.00		0.00		0.00		0.00		0.00	15	f	0.8864			0.00			0.00
16	S		0.00		0.00				0.00		0.00		0.00		0.00		0.00	16	s	0.8937		W-W-8102-W-22-M-22-W-22-W-2	0.00			0.00
17	S		0.00		0.00				0.00		0.00		0.00		0.00		0.00	17	s	0.8718			0.00			0.00
18	m		0.00		0.00				0.00		0.00	100000000000000000000000000000000000000	0.00		0.00		0.00	18	m	0.8450			0.00			0.00
19	t	10.20	70.16	< 0.05	0.34	1			0.00		0.00		0.00		0.00		0.00	19	t	0.8400		121.00	847.68		82.90	580.76
20	w		0.00		0.00	< 1			0.00		0.00		0.00		0.00		0.00	20	w	0.8449		AW. J. C. S. S. H. L. S.	0.00			0.00
21	t		0.00		0.00				0.00		0.00		0.00		0.00		0.00	21	t	0.8595			0.00			0.00
22	f	-	0.00	-	0.00				0.00		0.00	1	0.00		0.00		0.00	22	f	0.8988			0.00			0.00
23	s	1	0.00		0.00			1	0.00		0.00		0.00	_	0.00		0.00	23	s	0.9825			0.00			0.00
24	S		0.00		0.00				0.00		0.00	1	0.00		0.00		0.00	24	s	0.9129			0.00			0.00
25	m	1	0.00	+	0.00	+		1	0.00		0.00		0.00		0.00		0.00	25	m	0.9130			0.00			0.00
26	 	< 2.40	19.05	< 0.50	3.97	< 1			0.00		0.00	-	0.00		0.00		0.00	26	t	0.8790		159.00	1165,61		332.00	2433.8
27	w	1	0.00	1	0.00		†		0.00		0.00		0.00		0.00		0.00	27	w	0.8616	1		0.00			0.00
28	t	1	0.00	1	0.00				0.00		0.00		0.00		0.00		0.00	28	t	0.8592	1		0.00			0.00
29	f		0.00		0.00		· · · · · ·		0.00		0.00	1	0.00	-	0.00		0.00	29	f	0.9002			0.00			0.00
30	s	+	0.00	1	0.00	+		-	0.00		0.00	-	0.00		0.00		0.00	30	s	0.9176			0.00			0.00
31	S	1	0.00		0.00			†	0.00	†	0.00	1	0.00	_	0.00		0.00	31	s	0.9049	1		0.00	\Box		0.00
71	3		0.00	1	0.00				0,00		0.00		1 0.50		1		1				1			\Box	-	
TOTAL			0.00		0.00				averous couls								EN MIN	TOTAL		23.2056						
AVERA	1	< 4.35	< 3.41	< 0.39	< 0.25	< 1.0		1.71	4.86	2.52		0.06	0.00	2.02	0.13	0.50	0.03	AVERA				116.00	80.76		130.23	108.11
MAXIM			< 70.16	< 0.50	< 3.97	1.0		2.45	5.06	2.52	5.20	0.06	0.12		4.17	0.50	1.03	MAXIM	IUM			159.00	1165.61		332.00	2433.8
MINIMU			THE RESIDENCE OF THE PARTY OF T	-	< 0.00	< 1.0		0.97	0.00	2.52	0.00	0.06	0.00	M. Daniel St.	Total Control	0.50	0.00	MINIMU				84.00	0.00		38.00	0.00

LEWES WWTF

NUTRIENT OFFSET REPORT

MONTH	Days	Average Monthly Flow	Monthly Average TN	Total Monthly TN Discharged	TN Based 11.8 lbs Manure Offset Required	Poultry Manure Relocated		=		Relocated		Poultry Manure Offset Balance	Monthly Average TP	Total Monthly TP Discharged	TP Based 11.8 lbs Manure Offset Required
		MGD	mg/L	Lbs.	Lbs.	Tons	Lbs.	Lbs.	mg/L	L.bs.	Lbs.				
Carry Over								3,195,312.26							
January	31	0.6789	7.74	1358.55	16030.85		-	3,179,281.41	0.15	26.33	310.68				
February	29	0.8255	1.16	231.60	2732.88		-	3,176,548.53	0.06	11.58	136.64				
March	31	0.8058	1.15	239.58	2827.06		-	3,173,721.47	0.07	14.58	172.08				
April	30	0.6604	0.90	148.71	1754.76		-	3,171,966.70	0.51	84.27	994.37				
May	31	0.7431	2.52	484.15	5712.91		+	3,166,253.79	1.71	328.53	3876.62				
June	30			0.00	0.00		-	3,166,253.79	1	0.00	0.00				
July	31			0.00	0.00		-	3,166,253.79	/	0.00	0.00				
August	31			0.00	0.00		-	3,166,253.79		0.00	0.00				
September	30			0.00	0.00		-	3,166,253.79		0.00	0.00				
October	31			0.00	0.00		-	3,166,253.79		0.00	0.00				
November	30			0.00	0.00		-	3,166,253.79		0.00	0.00				
December	31			0.00	0.00		-	3,166,253.79		0.00	0.00				
968457 mm 2 sep\$23	Biologica Santagoria		umana an tana an an an an an	etrustas ar en en en en en	ali California e e e e e e e e e e e e e e e e e e e					and the same					
Year Balance								3,166,253.79	/						

Comments:		
	Authorized Signatory	6/1/2020 DATE

Alum offline for piping repairs.

WHITE MARSH ENVIRONMENTAL SYSTEMS, INC. MONTHLY OPERTAING REPORT - LEWES WASTEWATER TREATMENT PLANT ROOT CAUSE REPORT - CORRECTIVE ACTIONS SUMMARY - MAY 2020

		A -4*	Status Open/	
Action Item	Due Date	Action Owner	Complete/ Ongoing	Comments/Notes
Replace all four trains of filter membranes	May 2020	BPW	Complete	Installation is complete.
2. Reset Turbidity set-point to Manufacture recommended setting	February 2020	WMES	Complete	Reset as of February 13, 2020.
3. Replace all four Turbidity monitors with new models that have additional functionality, including the ability to alarm on loss of flow.	February 2020	WMES	Complete	New model turbidity monitors installed as of February 13, 2020.
4. Have the BPW consulting engineers and BPW staff perform Quarterly WWTF walk through to evaluate the field condition, maintenance records, compliance records and the operation and maintenance of the WWTF.	February 2020	BPW	Complete	GMB performed their first walkthrough for the BPW on February 18, 2020. Paul Peris of WMES accompanied GMB on the walkthrough. WMES received a copy of the report from the first walkthrough on 4-30-20. Second walkthrough was performed on 5-19-20.
5. Review and update the plant Operation and Maintenance Manual to ensure that the current plant configuration is captured, including other updates such as Suez's recommendation on chemical and mechanical cleaning	5/1/2020	BPW	Complete	Darrin Gordon issued an Updated Suez O and M Manual in electronic format to WMES representative on March 3, 2020. WMES is maintaining the electronic version and a hard copy desk version on-site at the Howard H. Seymour Water Reclamation Facility.
6. Issue Contract with Suez to remotely collect data (Insight-Pro) and provide cloud-based access to the data for BPW and plant operator. Suez will monitor and trend data, provide bi-weekly reporting and cleaning recommendations. Suez will provide an annual summary report.	5/1/2020	BPW	Open	Suez notified the BPW and WMES that the PLC was shipped on April 29, 2020. When the PLC is received by the BPW, it will be installed by the BPW's consultant (Keystone) in consultation with Suez. Programming of new panel scheduled for week of 6-15-20.
7. Perform an engineering analysis of the entire plant to identify ways to improve redundancy and reliability of the plant, including: a. Review current screen design to determine if there is a way to remove more of the "soft and spongy" material to reduce filter	6/30/2020	BPW	Open	
fouling	6/30/2020	BPW	Open	
b. Potential for splitting the four filter trains to have them operate in a redundant parallel configuration	6/30/2020	BPW	Open	
c. Configuration of turbidity meters to provide better protection against use of dirty water during back flush cycle	6/30/2020	BPW	Open	
8. WMES to establish an improvement program for monitoring of plant performance to be evaluated and accepted by BPW. The Corrective Actions contained in the WMES report are not detailed enough to provide assurance to BPW that the plant is being operated to industry Best Practices	5/16/2020	WMES	Complete	Included in April Monthly Report to BPW.

WHITE MARSH ENVIRONMENTAL SYSTEMS, INC. MONTHLY OPERTAING REPORT - LEWES WASTEWATER TREATMENT PLANT ROOT CAUSE REPORT - CORRECTIVE ACTIONS SUMMARY - MAY 2020

Status

			Open/	
		Action	Complete/	
Action Item	Due Date	Owner	Ongoing	Comments/Notes
9. Improve reporting requirements from WMES to BPW for:	5/16/2020	WMES	Complete/Ongoing	Started in April Monthly Report to BPW.
a. Off-normal conditions at the plant	5/16/2020	WMES	Complete/Ongoing	Started in April Monthly Report to BPW.
b. Discharges outside of Permit limits	5/16/2020	WMES	Complete/Ongoing	
c. OHSA accidents	5/16/2020	WMES	Complete/Ongoing	Started in April Monthly Report to BPW.
d. Details included in monthly reports (to include trending of performance data, trending of equipment failures, preventative				
maintenance required, suggested capital improvements and other concerns)	5/16/2020	WMES		Started in April Monthly Report to BPW.
e. WMES to present their report at the monthly BPW meeting	5/16/2020	WMES	Complete/Ongoing	Started in April Monthly Report to BPW.
f. Require, as per the contract, a detailed yearly reporting on the operation of the plant to include the items listed in a. through d.				
above	1/15/2021	WMES	Open	To be included in Annual Report to BPW beginning with the 2020 Annual Report.
10. BPW staff to strengthen its oversight of Operators performance				
a. Through the review of trending data in monthly and annual reports	5/16/2020	BPW	Open	BPW indicates that its staff will commence this as part of the April monthly report process.
b. Schedule routine plant walk through with plant WMES management	5/16/2020	BPW	Open	BPW indicates that its staff will commence this as part of the April monthly report process.
c. Annual review of WMES Policies and Procedures	5/16/2020	BPW	Open	BPW indicates that its staff will commence this as part of the April monthly report process.
d. Reporting to the BPW Board of condition of the plant	5/16/2020	BPW	Open	BPW indicates that its staff will commence this as part of the April monthly report process.
e. Developing of an open Item tracking system	5/16/2020	BPW	Open	BPW indicates that its staff will commence this as part of the April monthly report process.
11. BPW Board of Directors to review its oversight function of the operation of the BPW.a. Continue to use outside subject matter experts such as Sargent and Lundy, Suez, GMB, etc. to provide the Board with guidance on the condition of the BPW systemsb. Perform audit by a sub-group of the Board of the BPW operation and management systems	Annually	BPW	Open	To be completed annually by BPW. Schedule to be determined and added to tracking list that will be developed in Corrective Action 10. e.
12. WMES to develop plans for operating plant in off-normal conditions. BPW provided WMES with a Best Practices template and				WMES portion complete, to be submitted as part of the amended March 2020 Monthly Report to the
copy of the prior operating company plan. This should include, but not be limited to:	4/16/2020	WMES/BPW	Complete/Open	BPW. BPW portion Open; to be done by BPW Engineering Consultant.
a. Loss of filter membrane	4/16/2020	WMES/BPW	Complete/Open	WMES portion complete, to be submitted as part of the amended March 2020 Monthly Report to the BPW. BPW portion Open; to be done by BPW Engineering Consultant. WMES portion complete, to be submitted as part of the amended March 2020 Monthly Report to the
b. Digesters	4/16/2020	WMES/BPW	Complete/Open	BPW. BPW portion Open; to be done by BPW Engineering Consultant. WMES portion complete, to be submitted as part of the amended March 2020 Monthly Report to the
c. Other critical equipment	4/16/2020	WMES/BPW	Complete/Open	BPW. BPW portion Open; to be done by BPW Engineering Consultant. WMES portion complete, to be submitted as part of the amended March 2020 Monthly Report to the
d. Loss of Power	4/16/2020	WMES/BPW	Complete/Open	BPW. BPW portion Open; to be done by BPW Engineering Consultant. WMES portion complete, to be submitted as part of the amended March 2020 Monthly Report to the
e. Storm response	4/16/2020	WMES/BPW	Complete/Open	BPW. BPW portion Open; to be done by BPW Engineering Consultant. WMES portion complete, to be submitted as part of the amended March 2020 Monthly Report to the
f. Security Breach	4/16/2020	WMES/BPW	Complete/Open	BPW. BPW portion Open; to be done by BPW Engineering Consultant. WMES portion complete, to be submitted as part of the amended March 2020 Monthly Report to the
g. Terrorist/cyber terrorist attack	4/16/2020	WMES/BPW	Complete/Open	BPW. BPW portion Open; to be done by BPW Engineering Consultant.

WHITE MARSH ENVIRONMENTAL SYSTEMS, INC. MONTHLY OPERTAING REPORT - LEWES WASTEWATER TREATMENT PLANT ROOT CAUSE REPORT - CORRECTIVE ACTIONS SUMMARY - MAY 2020

Status

Action Item	Due Date	Action Owner	Open/ Complete/ Ongoing	Comments/Notes
Action Item	Buc Bute	O WHEE	Ongoing	Commences
13. BPW to look at other areas of its operation to determine if there are generic implications from the failure at the WWTF a. Evaluate the operation of the Water Department, electrical department and other areas of BPW operation to determine where improvements in Management practices are needed.	Undetermined	BPW	Open	Status: In process – Sargent & Lundy is currently performing a review of the BPW electrical system and will provide input to BPW for future capital projects and areas of improvement. Review quarterly at monthly BPW meeting
14. Require all WMES operational staff to have appropriate training by Suez on the proper operation and maintenance of the filters and plant	5/16/2020	WMES	Open	Information included in April Monthly Report to BPW.
15. WMES to review its safety manual to verify they are complying with the appropriate CDC guidelines and industry best practices for sanitary conditions. Post the appropriate areas of the plant as no-smoking/no-eating	4/16/2020	WMES	Complete	Commitment due as part of the March 2020 Monthly Report to the BPW.
16. WMES to review its safety practices and plant conditions to determine what changes may be required. Note: The Temporary cabling that was installed to protect employees appears to create other safety concerns.	4/16/2020	WMES	Complete	Commitment due as part of the March 2020 Monthly Report to the BPW.
17. BPW to audit WMES safety procedures and practices to included:				
a. Lock-out/Tag-out of equipment	April 2020	BPW	Unknown	To be completed prior to work starting in April 2020 when new filters are installed.
b. Confined entry permit	April 2020	BPW	Unknown	To be completed prior to work starting in April 2020 when new filters are installed.
c. Personal Protective Equipment	April 2020	BPW	Unknown	To be completed prior to work starting in April 2020 when new filters are installed.
d. General Housekeeping	April 2020	BPW	Unknown	To be completed prior to work starting in April 2020 when new filters are installed.
e. Chemical control and handling	April 2020	BPW	Unknown	To be completed prior to work starting in April 2020 when new filters are installed.
18. WMES to provide a monthly update on its Corrective Actions to BPW	4/16/2020	WMES	Ongoing	Started as part of the March 2020 Monthly Report to the BPW.
19. BPW Staff to provide an update on the status of the above Corrective Actions at routine monthly BPW meetings. This will be part of the standing agenda for the meetings	4/16/2020	BPW	Ongoing	Initially due as part of the review process of the March 2020 Monthly Report to the BPW.

RECOMMENDATIONS TRACKING – MIDDLESEX WATER

Rec. #					
MWC-022420-01 Notes:		oratory	only – No recommendation		
STATUS: Correc	ted		Estimated Completion	n Date	
MWC-022420-02 Notes:	supplinstation station	olied he allation o on that r nit can b	- A single eyewash bottle is ere. We recommend the of a permanent eye wash meets ANSI requirements. e attached to the faucet to this. See the link below for		EMERGENCY EVERACE WASH WASHINGTON WASH WASHINGTON WASH WASH WASH WASH WASH WASH WASH WASH
STATUS: Correc	ted		Estimated Completion	n Date	
MWC-022420-03 Notes:	extir lab. dete	nguisher Check	A Halon portable fire has been provided in the with your supplier to this unit is appropriate for ment.		INSTRUCTIONS SILATI AGE FIRE SUPER BILL THE STATE OF THE TABLE OF TH
STATUS: Correc	ted		Estimated Completion	n Date	

Rec. # MWC-022420-04 Garage There is a breaker panel with tape cover one of the closed breaker. The reason for this should be determined. There were not arc flash warnings on the cover of the pane which is a requirement of NFPA 70E. Notes:				
STATUS: Correct	ted	Estimated Completion	n Date	
MWC-022420-05 Notes:		ere is gasoline can with the "written on it. This needs to :		
STATUS: Correct	ted	Estimated Completion	n Date	
MWC-022420-06 Notes:	with the ven stated that t	nere is a clothes dryer here t laying on the floor. It was his dryer is not used. If so, removed from the Garage.		
STATUS: Correct	ted	Estimated Completion	n Date	

Rec. #				
MWC-022420-13 Process Building – A horizontal lifeline system has been installed by contractor who is performing work over the grates. Request engineering documents from the contractor that include details about this system and ensure that it is installed properly. Notes:			DOUE FOR	
STATUS: Correct	ted	Estimated Completion	n Date	
MWC-022420-14 Notes:	system has who is perfo Request en the contract	ilding - A horizontal lifeline been installed by contractor rming work over the grates. gineering documents from or that include details about a and ensure that it is perly.		
STATUS: Correct	ted	Estimated Completion	n Date	
MWC-022420-15 Notes:	Process Buthis building	ilding Housekeeping in is very poor. Trip hazards ant due to poor material etices.		
STATUS: Corrected Estimated Completion Date				

Rec. #	
MWC-022420-19 Notes:	Process Building – Signage is posted in several areas of the plant requiring PPE use. However it is not clear if these procedures are enforced. CAUTION FACE SHIELDS MUST BE WORN WHEN WORKING ON CHEMICAL FEED CHEMICAL FEED OR SAFETY GOGGLES ARE REQUIRED
STATUS: Correc	ted Estimated Completion Date
MWC-022420-20 Notes:	Process Building – Mezzanine – Install toe boards to prevent objects from falling to a lower level.
STATUS: Correct	ted Estimated Completion Date
MWC-022420-21 Notes:	Chemical Room The lights in this room are not working and need to be repaired. Also, the sign outside the building states that goggles are required but it is not clear how/if this is enforced.
STATUS: Correc	ted Estimated Completion Date

	I			
Rec. # MWC-022420-25 Equipment Storage Building Wood products haphazardly stored. Housekeeping and material storage methods in this area need improvement. Notes:				
STATUS: Correct	ted	Estimated Completion	n Date	
MWC-022420-26 Notes: All flammable liquid	Equipment stypes of haphazardly gasoline we by side. So stored on sedecks). This and consider sider replacing	Storage Building – Various chemicals are stored	Li contacto. Vi co	
STATUS: Correct	ted	Estimated Completion	n Date	
MWC-022420-27 Notes:	Digester Bui set up in from 36" of clear around elect	ilding This equipment was nt of an open breaker panel. rance must be maintained trical equipment. what this mechanism is seed for but it should be		
STATUS: Correct	ted	Estimated Completion	n Date	

Rec. #			
MWC-022420-31 Notes:	Digester Building – The grating on the stair landing was not secured with fasteners. These need to be installed.		
STATUS: Correct	ted Estimated Completion	n Date	
MWC-022420-32 Notes:	Storage Building – Several 5 gallon drums of chemicals are stored here. It should be determined if these chemicals are needed and are being stored properly.		Hotel College of the
STATUS: Correct	ted Estimated Completion	n Date	