

WHITE MARSH
ENVIRONMENTAL SYSTEMS, INC.
A Middlesex Water Company Affiliate

Mr. Darrin Gordon
General Manager
Lewes Board of Public Works
107 Franklin Avenue
Lewes, DE 19958

Subject: Monthly Report, June, 2019

Attached is a summary of the Operations and Maintenance activities at the Board's lift stations and wastewater treatment plant for the month of June, 2019. Please direct any questions to my attention. Thank you.

Sincerely,



Mike Evans
District Manager
Tidewater Utilities, Inc.

I. Effluent Quality and Compliance

JUNE 2019 Effluent Testing

Sample Data	Total Nitrogen	Total Phosphorus	BOD	TSS	Enterococcus
Average:	3.15 mg/L	0.73 mg/L	2.40 mg/L	0.63 mg/L	<1.0
Maximum:	N/A	N/A	2.40 mg/L	1.0 mg/L	Col.
Permit Limit:	8 mg /L average	2 mg /L average	15 mg/L average	15 mg/L average	10 Col. average
			23 mg/L MAX	23 mg/l MAX	

Maximum daily flow .8538 MGD

Monthly average flow .7242 MGD

II. Activities

STATION MAINTENANCE PERFORMED

- Pump Station #11 Pump #2 removed for repair.
- Thorough evaluation of pump stations #1, #11, #12, #19, #4 and #8 completed. Scheduled to have #12 and #19 cleaned and pumped out.
- Ongoing pump station checks/valuations with follow up e-mails to Tidewater Maintenance Dept. and Lewes BPW.
- Pump Station #4 pump had a temporary VFD (Variable Frequency Drive), installed on 6/7/2019. The VFD will remain until a replacement VFD can be installed. Once the odor control project is complete the replacement VFD will be installed.
- Pump Station #4, 1" line to wet well had to be repaired.

MAINTENANCE PERFORMED

- Continued cleaning train #4 membranes.
- Replaced rollers on entry gate.
- All scheduled preventive maintenance performed
- Turbidity analyzer drain lines replaced.
- 2 mm screen and grit conveyer needed extensive preventive maintenance performed.

SAFETY INFORMATION

No work place injuries.

PPE inspected.

Eyewash and fire extinguisher inspections conducted.

****Caustic lines in chemical building, process building and in the retaining area of process building have deteriorated.**

Crystallization is occurring causing a safety hazard. Leaking Caustic is seeping through the retaining wall in the process building as well.

ADDITIONAL INFORMATION

Hills Electric has picked up multiple for evaluation

The VFD to flow equalization pump #2 creating multiple alarms that need to be addressed. This is presently being investigated.



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

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

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

DE0021512
PERMIT NUMBER

001
DISCHARGE NUMBER

REPORT DESIGNATOR
DATA ENTRY COMPLETE
REPORT SUBMITTED BY
STATUS OF SUBMISSION

A
7/11/2019
daveweed69
Submitted for Signature

MONITORING PERIOD

FROM 2019 06 01 TO 2019 06 30

#	PARAMETER	NDI	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
			AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
1/1	Flow		0.7242	0.8538	Mil Gal/Day				0	99/99	RCOTOT
	Gross Effluent (00050)	-	No Limit Monitoring Req'd	No Limit Monitoring Req'd	Mil Gal/Day	No Monitoring Required	No Monitoring Required	No Monitoring Required	-	99/99	RCOTOT
1/2	Dissolved oxygen (DO)				-	4		6.5	0	99/99	Imersion
	Gross Effluent (00300)	-	No Monitoring Required	No Monitoring Required	-	No Limit Monitoring Req'd	No Monitoring Required	No Limit Monitoring Req'd	-	99/99	Imersion
1/3	pH				-	7.3		7.7	0	01/01	Grab
	Gross Effluent (00400)	-	No Monitoring Required	No Monitoring Required	-	No Monitoring Required	No Monitoring Required	9	-	01/01	Grab
1/4	Enterococcus				-	6			-	01/07	Grab
	Gross Effluent (31639)	-	No Monitoring Required	No Monitoring Required	-	No Monitoring Required	<1	<1	0	01/07	Grab
1/5	BOD5				-			104	-	01/07	Grab
	Gross Effluent (00310)	-	No Monitoring Required	No Monitoring Required	lbs/Day	No Monitoring Required	<2.4	<2.4	0	01/07	Composite 24
	BOD5				-			23	-	01/07	Composite 24
	Raw Sewage (00310)	-	No Monitoring Required	No Monitoring Required	-	No Monitoring Required	188	235	0	01/07	Composite 24
1/7	TSS				-			<1	-	01/30	Composite 24
	Gross Effluent (00530)	-	No Monitoring Required	No Monitoring Required	lbs/Day	No Monitoring Required	<0.63	<1	0	01/07	Composite 24
					-			23	-	01/07	Composite 24

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

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

TYPED OR PRINTED

(CERTIFY UNDER PENALTY OF LAW THAT THE DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO PREPARED THE INFORMATION, I AM AWARE THAT THERE ARE NO SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.)

(ATTACH DIGITAL SIGNATURE RECEIPT FROM CROMENY)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

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; G - No Sample (No Discharge)

DMREC DISCHARGE MONITORING REPORT - DMRI (EPA FORM 3320-1 (Rev. 10-96) USED AS TEMPLATE), 2016.

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FROM 2019 06 01 TO 2019 06 30

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			AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
2/1	TSS				-			236	0	01/07	Composite 24
	Raw Sewage (00530)	-	No Monitoring Required	No Monitoring Required	-	No Monitoring Required	No Limit Monitoring Req'd	No Limit Monitoring Req'd	-	01/30	Composite 24
2/2	Total Nitrogen		19.02	16.66	lbs/Day			3.15	0	01/30	Composite 24
	Gross Effluent (00600)	-	100	No Limit Monitoring Req'd	lbs/Day	No Monitoring Required	No Limit Monitoring Req'd	No Limit Monitoring Req'd	-	01/30	Composite 24
2/3	Phosphorus, Total		4.41	3.36	lbs/Day			0.73	0	01/30	Composite 24
	Gross Effluent (00665)	-	25	No Limit Monitoring Req'd	lbs/Day	No Monitoring Required	No Limit Monitoring Req'd	No Limit Monitoring Req'd	-	01/30	Composite 24

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DNREC DISCHARGE MONITORING REPORT - DM/R1 (EPA FORM 3320-1 (Rev. 10-96) USED AS TEMPLATE), 2016.

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Submission Receipt

Copy of Record: 45708 Confirmation ID: r201971145708

Site: Howard Seymour Water Reclamation
Plant

Site ID: DE0021512

Submission: Discharge Monitoring Report for DE0021512 Howard Seymour
Water Reclamation Plant Outfall: 001, June, 2019

File Name: 20196-1927-60749445

File Type: .pdf

Report: DMR

Status: Signed

Hash of Data Document:

b982b6581d167299e8e62b0052eb97df37d2f72fd9f9069d4beeddb51f6b3814

Data Entry Completed: 7/11/2019
1:51 PM

By: David Weed (davewe69)

E-Mail of Submitter: dweed@tuiwater.com

From: 107.20.242.105

Signed: 7/11/2019 2:01 PM

By: Ronald Griffith
(rgriffith@tuiwater.com)

E-Mail of Signator: rgriffith@tuiwater.com

From: 208.87.234.202

Token Used When Signed: TZW0VI+hACFfKIUpdV1varL8yLm/nzIV/kcVkyVfU0=

LEWES WWTF

NUTRIENT OFFSET REPORT

MONTH	Days	Average Monthly Flow	Monthly Average TN	Monthly Average TP	TN Based 16.9 lbs Manure Offset Required	Poultry Manure Relocated	Poultry Manure Offset Balance	Monthly Average TP	Total Monthly TP Discharged	TP Based 285 lbs Manure Offset Required
Carry Over		MGD	mg/L	mg/L	Lbs.	Tons	Lbs.		Lbs.	Lbs.
January	31	0.8809	7.05	0.42	27135.02	-	2,712,733.35	0.42	95.65	27261.42
February	28	0.9414	2.01	0.17	7467.60	-	2,685,471.93	0.17	37.37	10651.04
March	31	1.0168	6.26	0.39	27811.49	-	2,674,820.89	0.39	102.52	29219.50
April	30	0.8032	3.35	0.54	11377.39	-	2,645,601.39	0.54	108.52	30927.84
May	31	0.7462	5.21	1.46	16986.64	-	2,614,673.55	1.46	281.67	80275.07
June	30	0.7242	3.15	0.73	9645.91	-	2,534,398.47	0.73	132.27	37697.59
July	31				0.00	-	2,496,700.89		0.00	0.00
August	31				0.00	-	2,496,700.89		0.00	0.00
September	30				0.00	-	2,496,700.89		0.00	0.00
October	31				0.00	-	2,496,700.89		0.00	0.00
November	30				0.00	-	2,496,700.89		0.00	0.00
December	31				0.00	-	2,496,700.89		0.00	0.00
Year Balance							2,496,700.89			

Comments:

Donald Lee C. Smith
Authorized Signatory

7/10/19
DATE