

April 15th, 2019
Mr. Darrin Gordon
General Manager
Lewes Board of Public Works
107 Franklin Avenue
Lewes, DE 19958

Subject: Monthly Report,

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

Sincerely,



Mike Evans
District Manager
Tidewater Utilities, Inc.

I. Effluent Quality and Compliance

April 2019 Effluent Testing

Sample Data	Total Nitrogen	Total Phosphorus	BOD	TSS	Enterococcus
Average:	3.35 mg/L	0.54 mg/L	<2.40 mg/L	<0.71 mg/L	<1.0 Col.
Maximum:	N/A	N/A	<2.40 mg/L	<2.00 mg/L	<1.0 Col.
Permit Limit:	8 mg /L average	2 mg /L average	15 mg/L average 23 mg/L MAX	15 mg/L average 23 mg/l MAX	10 Col. average

Maximum daily flow 1.0117

Monthly average flow 0.8032

II. Activities

STATION MAINTENANCE PERFORMED

- Maintenance installed the new control cabinet including alarm system at the drying bed filtrate pump station.
- April 2nd, during construction a sewer force main was crushed resulting in E-1 pump stations 20, 21, 22, to flood. BPW repaired the main.
- April 17th Pump station #19 called out for a high level. Maintenance found pump #1 leaking and pump #2 was clogged.
- April 18th, Lewes BPW crew serviced and cleaned station #19.
- April 24th, Whitmarsh maintenance removed, cleaned, and reinstalled the Muffin Monster at pump station #19.
- All pump stations were checked.
- *Contacted Service Energy to fill generator fuel tank at Station #4. Delivery upcoming.

MAINTENANCE PERFORMED

- April 3rd, George and Sons trucking hauled dried bio solids from storage.
- Operators bypassed the 5mm screen due to a high-level alarm and to conduct routine cleaning of the screen.
- Operators cleaned and inspected cassettes in #4 train.
- April 17th, the digester blower #1 offline for maintenance.

MAINTENANCE PERFORMED

- Whitmarsh maintenance installed rebuilt Flyght mixer #4 in train #2.
- Cleaned and poured drying beds 1-7.
- Train #1 cyclic valve sticking. Operator removed valve and cleaned and reinstalled.
- April 23rd, electric manhole #3 alarmed high level. Operators determine the sump pump had failed. Maintenance scheduled, and replacement pump has been purchased.
- Operators and outside contractor (Keystone Engineering) continued troubleshooting the sludge vacuum press. Considerations need to be made going forward and a meeting with BPW and WMES to review is forthcoming.

SAFETY INFORMATION

No workplace 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

- April 4th, floor drains in process building became clogged, BPW snaked out the line. Thank you BPW.
- CD continues to haul sludge.
- *Several water hydrants on site are inoperative. BPW and WMES staffs are planning to inspect the hydrants and determine repair needs when time available.
- Annual DMRQA 39 conducted and submitted to DNREC.
- April 15th, the annual CSI inspection was held with Several DNREC officials and operators. Everything went well.
- Woodridge Elementary, and Love Creek Elementary school tours of the Lewes WWTP. Faculty and children were very impressed with the diligence that Lewes takes with keeping the environment clean.



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

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

NAME: Howard Seymour Water Reclamation Plant
ADDRESS: 116 American Legion Road, West Coxsack, NY 12198 US
FACILITY: Howard Seymour Water Reclamation Plant

PERMIT NUMBER: DE0021512

DISCHARGE NUMBER: 001
REPORT DESIGNATOR: A
DATA ENTRY COMPLETE: 5/15/2019
REPORT SUBMITTED BY: gloria.lefchick@stservic.es.com
STATUS OF SUBMISSION: Submitted for Signature

LOCATION: 116 American Legion Road, West Coxsack, NY 12198 US

MONITORING PERIOD: FROM 2019 04 01 TO 2019 04 30

#	PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
1/1	Flow	1.0117	1.0117	Mil Gal/Day				0	99/99	RCOTOT
	Gross Effluent (50050)	No Monitoring Required	No Limit Monitoring Req'd	Mil Gal/Day	No Monitoring Required	No Monitoring Required		-	99/99	RCOTOT
1/2	Dissolved oxygen (DO)				1.8	7.8	mg/l	0	99/99	Imersion
	Gross Effluent (00300)	No Monitoring Required	No Monitoring Required		No Limit Monitoring Req'd	No Limit Monitoring Req'd		-	99/99	Imersion
1/3	pH				7.3	7.6	Std pH Units	0	01/01	Grab
	Gross Effluent (00400)	No Monitoring Required	No Monitoring Required		6	9	Std pH Units	-	01/01	Grab
1/4	Enterococcus					<1	CFU/100 ML	0	01/07	Grab
	Gross Effluent (31639)	No Monitoring Required	No Monitoring Required		No Monitoring Required	104	CFU/100 ML	-	01/07	Grab
1/5	BOD5	<15.99	<18.3	lbs./Day		<2.4	mg/l	0	01/07	Composite 24
	Gross Effluent (00370)	188	288	lbs./Day	No Monitoring Required	23	mg/l	-	01/07	Composite 24
1/6	BOD5					182	mg/l	0	01/07	Composite 24
	Raw Sewage (00370)	No Monitoring Required	No Monitoring Required		No Monitoring Required	No Limit Monitoring Req'd	mg/l	-	01/30	Composite 24
1/7	TSS	<4.59	<12.95	lbs./Day		<2	mg/l	0	01/07	Composite 24
	Gross Effluent (00530)	188	288	lbs./Day	No Monitoring Required	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 OPERATE AND MAINTAIN THE SYSTEM, AND THAT I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

(ATTACH DIGITAL SIGNATURE RECEIPT .JPG OR PROMERY)

DATE: YEAR MO DAY

TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT



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

DE0021512
 PERMIT NUMBER

001
 DISCHARGE NUMBER

REPORT DESIGNATOR
 DATA ENTRY COMPLETE
 REPORT SUBMITTED BY

A
 5/15/2019
 gloria.lefchick@stservics.com
 Submitted for Signature

LOCATION: 116 American Legion Road, Lewes, DE 19958 US
 FROM: 2019 04 01 TO: 2019 04 30
 MONITORING PERIOD STATUS OF SUBMISSION

#	PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX. OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			UNITS
2/1	TSS	-	No Monitoring Required	-	No Monitoring Required	175	273	0	01/07	Composite 24
2/2	Total Nitrogen	22	24.71	lbs/Day	No Monitoring Required	3.35	3.45	0	02/30	Composite 24
2/3	Gross Effluent (00600)	100	No Limit Monitoring Req'd	lbs/Day	No Monitoring Required	8	No Limit Monitoring Req'd	-	01/30	Composite 24
	Phosphorus, Total	3.58	3.23	lbs/Day	No Monitoring Required	0.54	0.95	0	02/30	Composite 24
	Gross Effluent (00665)	25	No Limit Monitoring Req'd	lbs/Day	No Monitoring Required	2	No Limit Monitoring Req'd	-	01/30	Composite 24

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

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

TYPED OR PRINTED

(ATTACH DIGITAL SIGNATURE RECEIPT FROM CROMERR)
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

YEAR MO DAY

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

DNREC DISCHARGE MONITORING REPORT - DMR1 (EPA FORM 3320-1 (Rev. 10-96) USED AS TEMPLATE), 2016.

PRINTED: 5/15/2019 1:10 AM PAGE 2 OF 2

Submission Receipt

Copy of Record: 44284 Confirmation ID: r201951544284

Site: Howard Seymour Water Reclamation Plant

Site ID: DE0021512

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

File Name: 20194-1852-60749445

File Type: .pdf

Report: DMR

Status: Signed

Hash of Data Document:

b74d97708191e23e3d2943f1f3b72d2c2fa9dce397edf3df044704a5ea4d4972

Data Entry Completed: 5/15/2019 11:10 AM

By: Gloria Lefchick
(gloria.lefchick@stservices.com)

E-Mail of Submitter:
Glefcick@middlesexwater.com

From: 107.20.242.105

Signed: 5/15/2019 11:12 AM

By: Ronald Griffith
(rgriffith@tuiwater.com)

E-Mail of Signator: rgriffith@tuiwater.com

From: 208.111.234.202

Token Used When Signed: WHy4qSJcBj5RBsWGY1+A8X0IVEsia.TjBcVeeJfSXg=

**LEWES WATER
NUTRIENT OFFSET REPORT**

MONTH	Days	Average Monthly Flow	Monthly Average TN	Total Monthly TN Discharged	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
					Lbs.	Lbs.	Tons	Lbs.				
Carry Over		MGD										
January	31	0.8809	7.05	1605.32	27135.02			2,712,733.35				
February	28	0.9414	2.01	44.87	7467.60			2,685,471.93	0.42	95.65	27261.42	
March	31	1.0168	6.26	1655.33	27811.49			2,674,820.89	0.17	37.37	10651.04	
April	30	0.8032	3.35	103.22	1737.39			2,645,601.39	0.39	102.52	29219.50	
May	31			0.00	0.00			2,614,673.55	0.54	108.52	30927.84	
June	30			0.00	0.00			2,614,673.55		0.00	0.00	
July	31			0.00	0.00			2,614,673.55		0.00	0.00	
August	31			0.00	0.00			2,614,673.55		0.00	0.00	
September	30			0.00	0.00			2,614,673.55		0.00	0.00	
October	31			0.00	0.00			2,614,673.55		0.00	0.00	
November	30			0.00	0.00			2,614,673.55		0.00	0.00	
December	31			0.00	0.00			2,614,673.55		0.00	0.00	
Year Balance								2,614,673.55				

Comments:

[Signature]
Authorized Signatory

5/15/19
DATE

Preliminary Board Document