

February 14, 2019

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

**Subject: Monthly Report, January 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 January. Please direct any questions to my attention. Thank you.

Sincerely,



Mike Evans  
District Manager  
Tidewater Utilities, Inc.

I. Effluent Quality and Compliance

January 2019 Effluent Testing

Sample Data	Total Nitrogen	Total Phosphorus	BOD	TSS	Enterococcus
Average:	7.05 mg/L	0.17 mg/L	<2.40 mg/L	<0.60 mg/L	<6.185Col.
Maximum:	N/A	N/A	<2.40 mg/L	<1.00 mg/L	40.8 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 1.1385 MGD  
 Monthly average flow 0.8809 MGD

II. Activities

STATION MAINTENANCE PERFORMED

- Pump station #4 pump #2 clogged. Maintenance cleared the pump and placed it into service.
- Lift station #19, Pilottown Village, and station#12, Market Street- Devon Inn cleaned out with help from the BPW.

MAINTENANCE PERFORMED

- High level alarm at the digester anoxic tank. The tank was pumped down and cleaned out. All transfer lines were professionally cleaned out by Harry Caswell Inc.
- HIE in to conduct the required annual flow meter calibrations.
- Train #1 shutdown on MLK day due to defective level sensor control. Maintenance called in to install new sensor. Train back on line.
- Work on Train #4 membranes continues.
- Maintenance in to check the rotation on process blower.
- A water line in the sludge press building broke. On site operators repaired the line.
- A total of 54,000 gallons of liquid sludge hauled off premises for the month of January.

**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**

Whitemarsh is evaluating hydrogen sulfide in the German Rupp E.Q. pump cabinets.

Whitemarsh is evaluating the bioreactor air diffuser replacement project.

Schneider Electric and E.D. Supply met with Maintenance and operations to discuss Headworks VFD MCC replacement.

Whitemarsh is evaluating the caustic line replacement project.

Whitemarsh is also evaluating the odor complaints at station #4 to assist the BPW with developing a solution.

**High influent daily max flows and the monthly average flow significantly increased to station #4 contributed by the County pump station.**

**The Delaware River Basin Commission (DRBC) Annual Effluent Monitoring Report submitted for 2019.**

**Annual sludge testing scheduled for February.**

**April 12<sup>th</sup> to date set for the 3<sup>rd</sup> graders of Love Creek Elementary School**



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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

NAME: Howard Seymour Water Treatment Plant  
 ADDRESS: 116 American Legion Road, Nashville, TN 37203  
 FACILITY: Howard Seymour Water Treatment Plant

REPORT DESIGNATOR: A  
 DATA ENTRY COMPLETE: 2/14/2019  
 REPORT SUBMITTED BY: gloria.lefchick@stservic.es.com  
 STATUS OF SUBMISSION: Submitted for Signature

DE021512 PERMIT NUMBER  
 001 DISCHARGE NUMBER  
 MONITORING PERIOD: FROM 2019 01 01 TO 2019 01 31

#	PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE			
1/1	Flow	1.1385	Mil Gal/Day	No Limit   Monitoring Req'd	No Limit   Monitoring Req'd	No Limit   Monitoring Req'd	0	99/99	RCOTOT
1/2	Dissolved oxygen (DO)	6.69	mg/l	1.48	6.69	6.69	0	99/99	Imersion
1/3	pH	7.31	Std pH Units	No Limit   Monitoring Req'd	No Limit   Monitoring Req'd	No Limit   Monitoring Req'd	0	01/01	Grab
1/4	Enterococcus	40.8	CFU/100 ML	6	40.8	40.8	0	01/01	Grab
1/5	BOD5	10	CFU/100 ML	No Limit   Monitoring Req'd	10	104	0	01/07	Composite 24
1/6	BOD5	23	mg/l	No Limit   Monitoring Req'd	23	23	0	01/07	Composite 24
1/7	TSS	195.6	mg/l	No Limit   Monitoring Req'd	195.6	195.6	0	01/07	Composite 24
	Gross Effluent (00530)	288	lbs/Day	No Limit   Monitoring Req'd	288	288	0	01/07	Composite 24

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

additional TN was tested on effluent composite samples to reduce the average for compliance.

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 PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS RESPONSIBLE FOR THE INFORMATION SUBMITTED, I BELIEVE THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE



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

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

NAME: Howard Seymour Water Treatment Plant  
ADDRESS: 116 American Legion Road, Lodi, NJ 08958 US  
FACILITY: Howard Seymour Water Treatment Plant

PERMIT NUMBER: DE0021512

DISCHARGE NUMBER: 001

REPORT DESIGNATOR: A  
DATA ENTRY COMPLETE: 2/14/2019  
REPORT SUBMITTED BY: gloria.lefchick@stservic.es.com  
STATUS OF SUBMISSION: Submitted for Signature

LOCATION: 116 American Legion Road, Lodi, NJ 08958 US

MONITORING PERIOD: FROM 2019 01 01 TO 2019 01 31

#	PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
2/1	TSS	1.7	No Monitoring Required	--	No Monitoring Required	195.6	211	0	01/07	Composite 24
2/2	Total Nitrogen	1.25	No Monitoring Required	lbs/Day	No Monitoring Required	7.05	13.8	0	01/30	Composite 24
2/3	Gross Effluent (00600)	100	No Monitoring Required	lbs/Day	No Monitoring Required	8	No Limit   Monitoring Req'd	--	01/30	Composite 24
	Phosphorus, Total	1.25	No Monitoring Required	lbs/Day	No Monitoring Required	0.17	0.017	0	01/30	Composite 24
	Gross Effluent (00665)	25	No Monitoring Required	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)

additional TN was tested on effluent composite samples to reduce the average for compliance.

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I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY PERSONAL SUPERVISION AND CONTROL AND THAT I AM A PERSON WHO MANAGES THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION SUBMITTED, AND BELIEVE THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

TYPED OR PRINTED

[ATTACH DIGITAL SIGNATURE (RECEIVED FROM CROMERR)]

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

DATE

YEAR MONTH 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)

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

PRINTED:

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PAGE 2 OF 2

**LEWES WWTF  
NUTRIENT OFFSET REPORT**

MONTH	Days	Average Monthly Flow	Monthly Average TN mg/l	Total Monthly TN Discharged Lbs.	TN Based 11.8 lbs Manure Offset Required		Poultry Manure Relocated		Poultry Manure Offset Balance Lbs.	Monthly Average TP mg/L	Total Monthly TP Discharged Lbs.	TP Based 11.8 lbs Manure Offset Required Lbs.
					Lbs.	Lbs.	Tons	Lbs.				
Carry Over												
January	31	0.8809	7.05	17,056.2	18946.35	-	-	2,712,733.35		0.42	95.65	1128.72
February	28			0.00	0.00	-	-	2,693,787.00			0.00	0.00
March	31			0.00	0.00	-	-	2,693,787.00			0.00	0.00
April	30			0.00	0.00	-	-	2,693,787.00			0.00	0.00
May	31			0.00	0.00	-	-	2,693,787.00			0.00	0.00
June	30			0.00	0.00	-	-	2,693,787.00			0.00	0.00
July	31			0.00	0.00	-	-	2,693,787.00			0.00	0.00
August	31			0.00	0.00	-	-	2,693,787.00			0.00	0.00
September	30			0.00	0.00	-	-	2,693,787.00			0.00	0.00
October	31			0.00	0.00	-	-	2,693,787.00			0.00	0.00
November	30			0.00	0.00	-	-	2,693,787.00			0.00	0.00
December	31			0.00	0.00	-	-	2,693,787.00			0.00	0.00
<b>Year Balance</b>								<b>2,693,787.00</b>				

Comments:

*Paul Lee*  
Authorized Signatory

2/19/19  
DATE

Preliminary Board Document

# Submission Receipt

**Copy of Record: 42160 Confirmation ID: r201921442160**

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Site: Howard Seymour Water Reclamation Plant      Site ID: DE0021512

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

File Name: 20191-1735-60749445      File Type: .pdf

Report: DMR      Status: Signed

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Hash of Data Document:  
e6d4ee373269e369877fdc797c001d7ba779db80e71e6fa896ab74d47f0f030f

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Data Entry Completed: 2/14/2019 3:17 PM      By: Gloria Lefchick  
(gloria.lefchick@stservices.com)  
E-Mail of Submitter: Glefchick@middlesexwater.com      From: 107.20.249.236

Signed: 2/14/2019 3:44 PM      By: Ronald Griffith  
(rgriffith@tuiwater.com)  
E-Mail of Signator: rgriffith@tuiwater.com      From: 208.88.236.201

Token Used When Signed: GFIBiTib0VErUU6fp9...W2...xE5M...XnYaA1pr8DE=

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