

July 12, 2018

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

Subject: Monthly Report, June 2018

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

Sincerely,

Mike Evans

District Manager

Tidewater ! tilitie. Inc.

I. Effluent Quality and Compliance

Discharge Monitoring Report submitted to DNREC with 100% compliance for the month.

June 2018 Effluent Testing

Sample Data	Total Nitrogen	Total Phosphorus	BOD	TSS	Enterococcus
Average:	1.80 mg/L	0.36 mg/L	<2.40 mg/L	<0.63 mg/L	<1.0 Col.
Maximum	N/A	NA	<2.40 mg/L	<1.00 mg/L	<1.0 Col
Permit Limit:	8 mg /L average	2 mg /L average	15 mg/L average	15 mg/L average	10 Col. av eray
	•		23 mg/L MAX	23 mg/l MAX	

Maximum daily flow 0.8566 MGD Monthly average flow 0.7215 MGD

II. Activities

STATION MAINTENANCE PERFORMED

- Station #17 failed pump removed, rebuilt, and reinstalled. Replaced a faile low level noat. A replacement spare pump was ordered.
- Hornkill Rd. station #11 overflow. Station was pumped down by hand, "me was spread on a puddle in front yard. Replaced three level control floats and found the station control cabinet; as it properly grounded. Tidewater Maintenance grounded the cabinet for safety and added protection for equipment. Tidewater electricians notified BPW Electric Department that meter pan is rotted out and requested to at it is preplaced.
- Harry Caswell crew along with several BPW worker, purpled down station #8 to replace an underground valve that would not fully close. Preparation for the magnetic flow in oter? istallation project by Tidewater is underway.
- Lift stations 1,2,3,10,11,14,19 inspected by lidewater electricians.

MAINTENANCE PERFORMED

- Installed new gaskets into frain #2 permeate pump.
- Continued permrate low flow train shut downs.
- Sludge haule .c. 6/6- ./12 and 6/20-6/21 totaling 130.99 tons removed for June.
- Grit auger in Jeadworks deteriorating. Maintenance informed.
- Mainte and removed the digester membrane's blower and motor and sent them out to be refurbished. Maintenance installed a rebuilt motor and blower. Blower unit in service.
- Nembra e plower C went out of service due failed motor.
- Secondary RAS (return activated sludge) pump faulted due to a bad VFD. The pump was temporarily rewired to train 4's Primary RAS pump VFD. Maintenance is searching for a replacement VFD.
- Installed a reconditioned motor on train #2.
- Headworks E.Q. pump VFD #2 went down leaving pumps #1 and #3 to move the town's wastewater through the plant.
 Maintenance and HIE worked together on diagnosing the VFD fault. The VFD is back on line.
- Maintenance in to install a new mixer in bioreactor 1A.
- Repairs made to the screening/dewatering system.

SAFETY INFORMATION

No work place injuries.

PPE inspected.

Eyewash and fire extinguisher inspections conducted.

Annual Fire Extinguisher certification scheduled for July 20th 2018

**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

Tidewater in to evaluate hydrogen sulfide in the Gorman Rum E. Lummp cabinets. Tidewater in to evaluate the bioreactors for the air in the evaluate th

The Lewes WWTP produces near drinking wate. nursity e fluent.

LEWES WWTF NUTRIENT OFFSET PEFSPT

MONTH Days Monthly Total Monthly Tot	ſ										
Days Average Flow Monthy or TN Total Monthly Total Monthly TN TN Based TN Poultry Manure Relocated Manure Poultry Manure Relocated Offset Balance Offset Balance Regulired Poultry Manure Relocated Manure Relocated Offset Balance Offset Balance Regulired 31 0.5796 7.81 1 0.33 19778.52 130,493.68 130,			3,092,767.43	}							Balance
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Average Mont ly Total Monthly 16.9 lbs	Average		Manure		Poultry Manur	Manure	₹	J. Je	Monthly	Days	HTNOM
TN Based	Monthly		Poultry			16.9 lbs	Total Monthly	Mont ly	Average		
		_				TN Based					

Effective July 1,2018 we will be using the new required Manure offset ibs. of 16.9 lbs. for TN and 285 l's for TP as set by DNREC. This sheet has been recalculated to reflect these calculations back to January 1, 2018.

dzed Signatory

/13/18

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMITTEE NAME/ADDRESS (c. 1e | cility Name/Location if different): DE0021512 DISCHARGE MONITORING REPORT (DMR) 8 REPORT DESIGNATOR

PERMIT NUMBER

DISCHARGE NUMBER

DATA ENTRY COMPLETE

MONITORING PERIOD

STATUS OF SUBMISSION REPORT SUBMITTED BY

Submitted for Signature gloria.iefchick@stservic 7/11/2018 ➣

FACILITY LOCATION

ADDRESS

8		1/7		1/6		1/5		1/4		1/3		1/2		3	*		5
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)	Gross Effluent (00600)	Total Nitrogen	Gross Effluent (00530)	TSS	Grass Effluent (00310)	BOD5	Gross Effluent (31639)	Enteroccus	Gross Effluent (00400)	Hd.	Gross Effluent (00300) PERMIT REQUIR	Dissolved oxygen (DO)	Gross Effluent (50050)	Flow		PARAMETER	LOCATION 116 American L
ANY VIOLATION	PERMIT REQUIREMENT	SAMPLE MEASUREMENT	REQUIREMENT	SAMPLE MEASUREMENT	REQUIREMENT	SAMPLE MEASUREMENT	PERMIT REQUIREMENT	SAMPLE MEASUREMENT	REQUIREMENT	SAMPLE MEASUREMENT	REQUIREMENT	SAMPLE MEASUREMENT	PERMIT REQUIREMENT	MEASUREMENT			116 American Legion Roac, Lev
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ents here)	No Limit Monitoring Read	12.26	288	<5.38	288	<16,34	No Monitoring Required		No Monitog Required		No Monitoring Require		l No Limit ⊪. ¬itoring Reqd	0.8566	MILLIMIXAM	QUANTITY OR LOADING	FROM
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	No Limit _on~oring Regd	1.8	23	4	23	<2.4	No Monitoring Required		9	7.7	No Limit Monitoring Reqd	6	No Monitoring Required		MAXIMUM	OR CONCENTRATION	STATUS OF SUBMISSION
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100	CFU/100 ML	Std pH	Std pH Units	mg/l	mg/I	I	ı	UNITS		
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	01/30	01/30	01/07	01/07	01/07	01/07	01/07	01/07	01/01	01/01	99/99	99/99	99/99	99/99		FREQUENCY OF ANALYSIS	Submitted for Signature
	Comp 8	Comp 8	Comp 8	Comp 8	Comp 8	Comp 8	Gab	Grab	Grab	Grab	Measured	Measured	Recorder	Recorder		SAMPLE TYPE	

TYPED OR PRINTED	NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
PERSONS WHO MANAGETHE SYTTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR CATHERING THE INFORMATION. THE METONATION SHEW BUSINETED IS, TO THE REST OF MY ROWNLEDGE AND SELECT THUE, ACCURATE, MAND COMPUTED FOR SUBMITTION OF MADE INFORMATION. OFFICE INCLUDING THE POSSIBLET OF FIVE AND IMPRISONMENT FOR KNOWNING VIOLATIONS. OFFICE	I CERTIFA UNDER PELANTITO DE LAWITHAT THES DOCUMENTA MAD ALL ATTACHMENTS THE PREPARE DE LAW LACHOLOGICA DE LA TORONO DE LAWITHAT THE DECOMPTION AND ALL AND THE PREPARE DE LAW LACHOLOGICA DE LAWITHAT THE DECOMPTION AND ALL AND THE PREPARE DE LAWITHAT THE DECOMPTION AND ALL AND THE PREPARE DE LAWITHAT THE PREPARE DE LA
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	Tr _cp
(3	ONE
EAR MO DAY	DATE

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

DNREC DISCHARGE MONITORING REPORT - DMR1 [EPA FORM 3320-1 (Rev. 10-95) USED AS TEMPLATE], 2016.

7/11/2018 2:26 -M

PRINTED:

7/11/2018 2:26 . M

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT [ATTACH DIGITAL SIGNATURE RECEIPT FROM CROMERR]

TE' , PHONE

DATE

DISCHARGE MONITORING REPORT (DMR)

REPORT DESIGNATOR

DATA ENTRY COMPLETE

7/11/2018

gloria.lefchick@stservic es,com ➣

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

FACILITY PERMITTEE NAME/ADDRESS (i at the Finity Name/Location if different):

NAME

City of Lewes - Boart of Link orks LBPW

ADDRESS

116 American Legion Road Lewes & 19958 US

Howard Seymour W. eciam on Plant

LOCATION

116 American Legion Road, Lew , DE 1958 US

QUANTITY OR LOADING

FROM

2018 06 01

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QUALITY OR CONCENTRATION

Phosphorus, Total

SAMPLE MEASUREMENT

AVER

2.45

UNITS

MUMUM

AVERAGE 0.36 N

MAXIMUM

UNITS

贝奇

FREQUENCY OF ANALYSIS

SAMPLE TYPE

0.36

0

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all at .chments 1, "e)

Gross Effluent (00665) PERMIT REQUIREMENT

'n

No Limit | nitoring Reqd

lbs/Day lbs/Day

No Monitoring Required

No Limit | Monitoring Reqd

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01/30 01/30

Comp 8 Comp 8

PERMIT NUMBER DE0021512

MONITORING PERIOD

DISCHARGE NUMBER

2018 06 30 STATUS OF SUBMISSION REPORT SUBMITTED BY

Submitted for Signature

NCI (No Cuts Indicator) Ressors: 8 - No Sample (Cither); 9 - No Sample (Monitoring Not Required this Monitoring Period); B - Not Detected; C - No Sample (No Discharge)

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

TYPED OR PRINTED

YEAR

õ

DAY

Submission Receipt

Copy of Record: 37764 Confirmation ID: r201871337764

Site: Howard Seymour Water Reclamation

Site ID: DE0021512

Plant

Submission: Discharge Monitoring Report for DE0021512 Howard Seymour

Water Reclamation Plant Outfall: 001, June, 2018

File Name: 20186-1428-60660265

File Type: .pdf

Report: DMR Status: Signed

Hash of Data Document:

054036c4a164fc354e06145e9a3b3fd4eb38b0ab91734e5b0519aef889b365be

Data Entry Completed: 7/11/2018

2:26 PM

EMail of Submittor:

Gloria.Lefchick@STServices.com

By: Gloria Lefchick

(gloria.lefchick@stservices.com)

From: 64,235.154 12

Signed: 7/13/2018 3:33 PM

By: Ronald Griffith (rgriffith@tuiwater.cr

EMail of Signator: rgriffith@tuiwater.com

Fron 2°3.c 234.202

Token Used When Signed: KQdNrPabpFEJIJF2ta+O7K4W_cSV8y_JyoRp+9+Dsk=