

### LEMOYNE MUNICIPAL AUTHORITY WASTEWATER REPORT

## **APRIL 4, 2024**

#### Dear Council / Authority Members:

• Reporting Month: **FEBRUARY 2024** 

• Effluent violations: **NO** 

• Monthly EDMR submittal date: MARCH 21, 2024

• Quarterly EDMR submittal date: **FEBRUARY 14, 2024** 

• Annual EDMR submittal date: **NOVEMBER 6, 2023** 

#### FEBRUARY 2024 DATA SUMMARY

PARAMETER	MAX	MIN	AVERAGE	PERMIT LIMIT
FLOW (Gal.)	.463	.318	.375	N/A
CBOD5 (mg/l)	2.3	<2.0	<2.0	25 AVG / 50 MAX
TSS (mg/l)	4.4	<4.0	<4.0	30 AVG / 60 MAX
PHOSPHORUS (mg/l)	0.57	0.22	0.34	2.0 AVG / 4.0 INSTANT
AMMONIA (mg/l)	9.47	< 0.1	<1.15	REPORT
FECAL COLIFORM (cfu)	20	2	5	200 GEO MEAN / 1,000 MAX
UV INTENSITY (uw/cm2)	774.3	68.2	426.0	REPORT
<b>PH</b> (S.U.)	7.89	7.12	N/A	6.0 TO 9.0
<b>DISSOLVED OXYGEN</b> (mg/l)	11.09	7.94	10.55	>5.0

#### **BIOSOLIDS**

# OF LOADS	WET TONS	DRY TONS	% SOLIDS RANGE
3	42.03	8.53	20.0-20.7

#### PA 1 CALLS

ROUTINE PA 1 CALLS	EMERGENCY PA 1 CALLS
28	4

#### **ROUTINE MAINTENANCE / EVENTS**

- Daily operations ongoing including inspections, cleaning, testing and chemical replenishment.
- Continue to implement NPDES (National Pollution Discharge Elimination System) permit.
- Sampling and Lab Analysis. Process control adjustments as required.
- Ongoing preventative maintenance.

#### NON-ROUTINE MAINTENANCE / EVENTS

- Semi-Annual calibrations completed by Control Systems 21- OCTOBER 25, 2023
- Annual Backflow testing at Northside Station-SEPTEMBER 21, 2023
- Lowther Station Pump install- Completed FEBRUARY 26, 2024

#### **COLLECTION SYSTEM**

- Ongoing preventative maintenance of trouble spots. (solids, grit, grease, problem areas).
- Farhat Excavating starting Sanitary Sewer Repairs MARCH 25, 2024
- Soliciting pricing for Sanitary Sewer Lining for 2024.

#### WWTP PERSONNEL INFO, CLASSES, ACCOMPLISHMENTS

- 2 of 3 plant personnel are Licensed Operators.
- PA 1 Call recognized WWTP personnel for 100% response rate.
- Bob Oakes attended PELRAS training.
- Kyle Janny to attend Pump Repair class in April.

#### PENDING ISSUES

- Grit system is not functioning properly due to being oversized. Not enough flow or velocity to work correctly.
- Second stage oxic tanks are not getting the amount of mixing needed since lowering the amount of air to the tanks to meet our nutrient requirements.
- Would like to look into upgrading the Utility Water pumps and Screen.

If you have any questions, require more information, or wish to comment on the above information, please feel free to contact me.

Respectfully, Robert Oakes Wastewater Superintendent



## SUPPLEMENTAL REPORT DAILY EFFLUENT MONITORING

3800-FM-BCW0435 3/2012

Facility Name: Municipality: Watershed: Laboratories:

Borough of Lemoyne Lemoyne Borough 7-C County: Cumberland

Suburban Labs-Lemoyne Borough

 Month:
 2 (select number)
 Year:
 202

 Permit No.:
 PA0026441
 Outfall:
 001

 Renewal application due 180 days
 prior to expiration.

2024 001

This	permit will expire on:	June 30.	2027

		Parameter	Flow	For	al Coliform	Diese	alizad Owner		-11		00005	Γ	700	Ι				T		1		T		Г		Г		Т			
		uranicier.	Flow	rec	ai Comorni	Disso	olved Oxygen		рH		CBOD5		TSS	J 00	Intensity		Total Zinc		NH3-N	Tota	l Phosphorus		E. Coli								
		Stage	1	L.,	1	L.,	1		1		1		1		1		1		1		1		1								
Week	Day	Date 2/1/24	MGD	Q	CFU/100 ml	Q	mg/L	Q	THE RESERVE THE PARTY OF THE PA	Q	mg/L	Q	mg/L	Q	μW/cm²	Q	mg/L	Q	mg/L	Q	mg/L	Q	CFU/100 ml	Q		Q		Q		Q	
l	Thu Fri	2/1/24	0.443 0.421	-	2.0	+	10.71	$\vdash$	7.71	<	2.0		4.4	-	529.5			<	0.1		0.22										
	Sat	2/3/24	0.421	1		+	10.52 10.63	$\vdash$	7.37	-				-	528.2			$\perp$		$\perp$		-									
1	Sun	2/4/24	0.415	-		+	10.63	-	7.5 7.57	$\vdash$		$\vdash$		$\vdash$	709.7			-		$\perp$		-									
	Mon	2/5/24	0.381	1		+	10.6	$\vdash$		-				$\vdash$	735.7	-		-		-		-									
	Tue	2/6/24	0.357	1	4.0	+	10.6		7.61 7.53	<	0.0		4.0	+	774.3			1		-		-							L		
	Wed	2/7/24	0.363	1 1	4.0	+	10.76		7.53	`	2.0	<	4.0	-	716.7	-		<	0.1	+	0.36	-							ļ		
	Thu	2/8/24	0.356	1	2.0	+	10.72		7.53	<	2.0	<	4.0	-	674.9 640.7	-	0.400	2		+		-								$\vdash$	
	Fri	2/9/24	0.361	1 1	2.0	+	10.72		7.54	`	2.0	`	4.0	+	606.3		0.129	*	0.1	-	0.57	-				$\vdash$				$\vdash$	
	Sat	2/10/24	0.36		-	+	10.73	$\vdash$	7.54	-		$\vdash$		+		-	-			+		-								$\vdash$	
2	Sun	2/11/24	0.344			+	10.35	$\vdash$	7.89			$\vdash$		1	611.2 434.4	-		+		+		-		-		$\vdash$				$\vdash$	
	Mon	2/12/24	0.357			1 1	10.44		7.47					+	223.3	-		+				-							'	$\vdash$	
	Tue	2/13/24	0.463		20.0	1 1	10.26		7.6	-	2.0	<	4.0	-	68.2	-		<	0.1	+	0.37	-		-		$\vdash$				$\vdash$	
	Wed	2/14/24	0.379		20.0	+	10.61		7.46		2.0	`	4.0	-	70.9			+`+	0.1	+	0.37	-				-				$\vdash$	
	Thu	2/15/24	0.422		3.0		10.74		7.62	-	2.0	<	4.0	-	299.5			<	0.1	+	0.3					$\vdash$				$\vdash$	
	Fri	2/16/24	0.361				10,69		7.53	- 1	20	- 1	4.0	-	201.8			+`+	0.1	+-+	0.3	-				$\vdash$				$\vdash$	
	Sat	2/17/24	0.398				10.62		7.49					+	401.1			1-1		+-+		-				$\vdash$		-		$\vdash$	
3	Sun	2/18/24	0.369				10.92		7.6					+	325.2			1 1		++		-								$\vdash$	
	Mon	2/19/24	0.372				10.9		7.61						281.1			+		+		-				-		$\vdash$		-	
	Tue	2/20/24	0.386		5.0		11.09		7.88		2.3	<	4.0		182.1			<	0.1	+	0.32	-				$\vdash$	-	-		$\leftarrow$	
	Wed	2/21/24	0.378				10.92		7.51				1.0		337.6			1	0.1	1-1	0.02					$\vdash$				$\leftarrow$	
	Thu	2/22/24	0.367		5.0		10.73		7.55	<	2.0	<	4.0		349.9			<	0.1	+	0.29					$\vdash$		$\vdash$		-	
	Fri	2/23/24	0.365				10.46		7.57						341.4					+	0.20	-							· · · · · · · · · · · · · · · · · · ·	-+	
	Sat	2/24/24	0.365				10.48		7.49						329.1			1 1							-			-		$\leftarrow$	
4	Sun	2/25/24	0.329				10.88		7.52						307.0			1 1		1-1		1								-+	
	Mon	2/26/24	0.327				10.64		7.56						385.1			t		+								$\vdash$		-	
	Tue	2/27/24	0.318		8.0		10.38		7.73	<	2.0	<	4.0		404.7				9.47	1 1	0.37									-	
	Wed	2/28/24	0.373				10.17		7.36						425.2					1 1										$\leftarrow$	
	Thu	2/29/24	0.344		5.0		7.94		7.12	<	2.0	<	4.0		460.3				0.16		0.25									-1	
	Fri	3/1/24																												-	
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	Daily Minimu			$\vdash$	2		7.94		7.12	<	2	<	4		68.2		0.129	<	0.1		0.22										
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				$\vdash$		$\vdash$	10.79	-		<	2.2	<	4.0		680		0.129		4.82		0.5										
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	Max Avg We		0.389	$\vdash$	5	$\vdash$	34			<	-									1		###									
		thly (Load):	0.375	$\vdash$		$\vdash$	33	-			7	<	15	$\vdash$			0.4		13	$\perp$	1										
		ithly (Load):	10.874	-		-	957	-		<	7	<	13				0.4	<	3	1	1										
	Daily Minim		0.318	$\vdash$		$\vdash$	23			<	189 5	<	376				11	<	90	1	31										
	Daily Maxim		0.463	$\vdash$		$\vdash$	40			<	8	`	11	$\vdash$			0.4	<	0.3	1 1	0.7										
	Daily WaXIIT	um (Load):	0.403				40			<	8		16				0.4	1 1	25		2			T							

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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 information, the information submitted is, to the best of my knowledge and belief, 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. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By:	Robert Oakes	License No.:	S17992
Title:	Wastewater Superintendent	Date:	3/21/2024



7-C

# CHESAPEAKE BAY SUPPLEMENTAL REPORT NUTRIENT MONITORING

Facility Name:
Municipality:

Watershed:

**Borough of Lemoyne WWTP** 

Lemoyne Borough

County: Cumberland

Month: \_\_2\_ (Se

2 (Select number)

Year: Outfall: 2024 001

Renewal application due 180 days prior to expiration.

This permit will expire on: June 30, 2027

NPDES Permit No.: PA0026441

	FLOW	Mai	То	tal P		I KSS	370 SIE	NH <sub>3</sub> -N		Pin 1	300 July 2007	KN	50 50 50	1000	NO <sub>2</sub> +I	NO <sub>2</sub> +NO <sub>3</sub> as N			_ To	otal N	M EN SAK
DAY	MGD	Q	mg/l	Q	lbs/day	Q	mg/l	Q	lbs/day	Q	mg/l	Q	lbs/day	Q	mg/l	Q	lbs/day	Q	mg/l	Q	lbs/day
1	0.443		0.22		8.0	<	0.1	<	0.4	T	1.1		4.1	П	8.36		30.9	TT	9.46	TT	35.0
2	0.421																				
3	0.415																	1		1 1	
4	0.4																				
5	0.381															1 1					
6	0.357		0.36		1.1	<	0.1	<	0.3		0.76		2.3		6.95		20.7		7.71		23.0
7	0.363																				
8	0.356		0.57		1.7	<	0.1	<	0.3		1.28		3.8		8.39		24.9		9.67		28.7
9	0.361																				
10	0.36															1 1					
11	0.344																	1 1			
12	0.357															1		1 1	-		
13	0.463		0.37		1.4	<	0.1	<	0.4		1.12		4.3	H	6.99		27.0	1 1	8.11		31.3
14	0.379																	1	• • • • • • • • • • • • • • • • • • • •		01.0
15	0.422		0.3		1.1	<	0.1	<	0.4		0.96		3.4		6.3		22.2	1	7.26	1	25.6
16	0.361																		7.20		20.0
17	0.398																			1 1	
18	0.369																			1 1	
19	0.372											1 1								1 1	
20	0.386		0.32		1.0	<	0.1	<	0.3		0.85		2.7		5.28	1	17.0		6.13	1 1	19.7
21	0.378			1			-								0.20	1 1		I	0.10	+	10.7
22	0.367		0.29		0.9	<	0.1	<	0.3		0.79		2.4		6.77		20.7		7.56	+ +	23.1
23	0.365														•	1 1		1	7.00	1 1	20.1
24	0.365																			1	
25	0.329																				
26	0.327																			1 1	
27	0.318		0.37		1.0		9.47		25.1		11.3		30.0		1.76	1 1	4.7	1	13.06	+ +	34.6
28	0.373														1.70		1.,		10.00		07.0
29	0.344		0.25		0.7		0.16		0.5		0.91		2.6		5.65		16.2		6.56		18.8
Avg	0.375		0.34		1	<	1.15	<	3		2.12		6		6.27		20		8.39	+	27
	Monthly	Total L	oads (lbs):		31			<	90				179				594			1	773

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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 information, the information submitted is, to the best of my knowledge and belief, 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. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By:

Robert Oakes

Title: Wastewater Superintendent

License No.:

S17992

Date:

3/21/2024





#### **SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL**

Facility Name:	<b>Borough of Lemoyne WWTP</b>		Month: February	Year:	2024
Municipality:	Lemoyne Borough	County: Cumberland	NPDES Permit No.: P	A0026441	

Watershed: 7-C Renewal application due 180 days prior to expiration.

This permit will expire on: June 30, 2027

						Danier Order								
II -		r	Influent	r				Process Control						
	Flow	BOD <sub>5</sub>	BOD <sub>5</sub>	TSS	TSS	Aeration MLSS	<b>Aeration DO</b>	Sludge Wasted						
Day	(MGD)	(mg/l)	(lbs)	(mg/l)	(lbs)	(mg/l)	(mg/l)	(gallons)						
1	0.439	132.0	483	71.4	261			2,117.0						
2	0.436							2,119.0						
3	0.441							2,129.0						
4	0.424							2,103.0						
5	0.399							1,504.0						
6	0.375	313.0	979	206.0	644	5,400.0	3.53	3,991.0						
7	0.385							4,391.0						
8	0.372	303.0	940	168.0	521			3,985.0						
9	0.379							4,108.0						
10	0.367							4,406.0						
11	0.351							4,395.0						
12	0.361							2,975.0						
13	0.461	221.0	850	118.0	454	6,100.0	1.57	2,929.0						
14	0.411							2,990.0						
15	0.397	184.0	609	56.0	185			2,961.0						
16	0.383							2,993.0						
17	0.398							2,946.0						
18	0.371							2,861.0						
19	0.367							2,935.0						
20	0.383	294.0	939	196.0	626	4,600.0	4.55	2,948.0						
21	0.391							2,941.0						
22	0.379	302.0	955	202.0	638			2,931.0						
23	0.393							2,951.0						
24	0.398							2,292.0						
25	0.378							2,969.0						
26	0.373							2,934.0						
27	0.347	186.0	538	69.0	200	4,900.0	4.22	2,964.0						
28	0.382							2,919.0						
29	0.359	156.0	467	68.0	204			2,945.0						
30														
31														
Avg	0.39	232	751	128	415	5,250	3	3,022						
Max	0.461	313	979	206	644	6,100	5	4,406						

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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 information, the information submitted is, to the best of my knowledge and belief, 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. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By:	Robert Oakes	License No.:	S17992
Title:	Wastewater Superintendent	Date:	3/21/2024



# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

# SUPPLEMENTAL REPORT SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

Facility Na Municipalit Watershed	y: <u>Lemo</u>	ugh of Lemo Dyne Boroug	oyne W\ ıh		SLUDGE / BIOSC  County: Cumberlan		Month: <u>Febr</u> NPDES Per Renewal ap		Year: 202	24			
☐ Check ł	nere if ther	SEWAGE re were no c	SLUDO	GE/BIOSOLIDS emoval events o	PRODUCTION INFORM	MATION (Identify	each off-site	e removal event and incinera	ation event)				
Date		d Sewage S Hauled	ludge/E	Biosolids	Dewatered Se	ewage Sludge/Bio	solids	Sewage Dewatered a	Sewage Sludge/Biosolids Dewatered and Incinerated On-site				
	Gallons	s % S	olids	Dry Tons	Tons Dewatered	% Solids	Dry Tons			Dry Tons			
2/1 2/15					14.17 13.86	20.2	2.86 2.87						
2/29				,	14.00	20.0	2.8						
		TO	OTAL:			TOTAL:	8.53		TOTAL:				
		SI	EWAGE		SOLIDS AND INCINERA			ENEFICIAL USE INFORMAT	ION				
5	Site Name			Blue Ridge Lar		erland County Lan		oscu or land applied/					
M	unicipalit	у		Greene Towns		n Newton Townshi							
DE	County			Franklin		Cumberland							
	Permit Notes of Mater			100934 Sewage Slud	~~	265792							
Dry Tons				8.53	ye s	Sewage Sludge							
Type o	f Disposa	I/Use*		Landfill		Landfill							
The second secon	uler Nam	A STATE OF THE PARTY OF THE PAR		Penn Waste	)	Penn Waste							
certify ur personnel responsible there are	nder pena gather a le for gatl significar	nd evaluat hering the	e the ir informa s for su	nformation sub ation, the infor bmitting false	omitted. Based on my mation submitted is, to	inquiry of the post of the best of my	erson or pe knowledge	ccordance with a system de ersons who manage the sy and belief, true, accurate a imprisonment for knowing	stem or those personand complete. I am	ons directly aware that			
Prep	ared by:	Robert Oak	es			_	Signature:						
Title:	Title: Wastewater Superintendent						Date:	3/21/2024					

### Lemoyne Borough WWTP PA1Calls Monthly Log

February	# Regular PA1Calls	# Emergency PA1Calls	Daily Total
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	1	0	1
6	0	0	0
7	0	0	0
8	1	1	2
9	3	0	3
10	0	0	0
11	0	0	0
12	1	0	1
13	1	0	1
14	5	1	6
15	0	1	1
16	2	0	2
17	0	0	0
18	0	0	0
19	1	0	1
20	1	1	2
21	2	0	2
22	1	0	1
23	0	0	0
24	1	0	1
25	0	0	0
26	3	0	3
27	1	0	1
28	4	0	4
29	0	0	0
30			0
31			0
Totals:	28	4	32