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Permit

Permit #:
Major:

IN0022896
No

Permittee:
Permittee Address:

FORT BRANCH WWTP
COAL MINE RD, 130 ft E of RED BANK RD
800 S & 65 W
FORT BRANCH, IN 47648

Facility:
Facility Location:

TOWN OF FORT BRANCH WWTP
COAL MINE RD
800 S & 65 W
FORT BRANCH, IN 47648

Permitted Feature:

001
External Outfall

Discharge:

001-A
0.7 MGD MAIN OUTFALL TO W FK PIGEON CREEK

Report Dates & Status

Monitoring Period:

From 04/01/24 to 04/30/24

DMR Due Date:

05/28/24

Status:

NetDMR Validated

Considerations for Form Completion

THE FLOW METER(S) SHALL BE CALIBRATED AT LEAST ONCE ANNUALLY. MUNICIPAL MINOR GIBSON COUNTY

Principal Executive Officer

First Name:
Last Name:

Sandy
Birch

Title:

Town Council President

Telephone:

812-753-3827

No Data Indicator (NODI)

FormNODI: --

Code	Parameter	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type	
	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	2	--	Sample						=	8.17					19 - mg/L	0	05/WK - Five Per Week	G3 - GRAB-3
					Permit Req.						>=	5.0 DLYAVMIN					19 - mg/L		05/WK - Five Per Week	G3 - GRAB-3
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample						=	8.2			=	8.8	12 - SU	0	05/WK - Five Per Week	GR - GRAB
					Permit Req.						>=	6.0 DAILY MN			<=	9.0 DAILY MX	12 - SU		05/WK - Five Per Week	GR - GRAB
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	2	--	Sample	=	19.29	=	34.91	26 - lb/d			=	2.7	=	4.133	19 - mg/L	0	03/07 - Three Per Week	24 - COMP24
					Permit Req.	<=	175.2 MO AVG	<=	282.9 MX WK AV	26 - lb/d			<=	30.0 MO AVG	<=	45.0 MX WK AV	19 - mg/L		03/07 - Three Per Week	24 - COMP24
					Value NODI															
00810	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample	=	5.888	=	9.448	26 - lb/d			=	0.657	=	0.935	19 - mg/L	0	03/07 - Three Per Week	24 - COMP24
					Permit Req.	<=	9.3 MO AVG	<=	14.0 MX WK AV	26 - lb/d			<=	1.8 MO AVG	<=	2.4 MX WK AV	19 - mg/L		03/07 - Three Per Week	24 - COMP24
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	0.8097			03 - MGD									05/WK - Five Per Week	TM - TOTALZ
					Permit Req.		Req Mon MO AVG			03 - MGD									05/WK - Five Per Week	TM - TOTALZ
					Value NODI															
50060	Chlorine, total residual	1 - Effluent Gross	1	--	Sample								=	0.018	=	0.02	19 - mg/L	0	05/WK - Five Per Week	GR - GRAB
					Permit Req.								<	0.06 MO AVG	<	0.06 DAILY MX	19 - mg/L		05/WK - Five Per Week	GR - GRAB
					Value NODI															
X 50080	Chlorine, total residual	X - End of Chlorine Contact Chamber	1	--	Sample						=	0.42			=	0.97	19 - mg/L	2	05/WK - Five Per Week	GR - GRAB
					Permit Req.						>=	0.5 DAILY MN				Req Mon DAILY MX	19 - mg/L		05/WK - Five Per Week	GR - GRAB
					Value NODI															
51041	E. coli, colony forming units [CFU]	1 - Effluent Gross	0	--	Sample								=	47.0	=	78.8	3Z - CFU/100mL	0	03/07 - Three Per Week	GR - GRAB
					Permit Req.								<=	125.0 MO GEO	<=	235.0 DAILY MX	3Z - CFU/100mL		03/07 - Three Per Week	GR - GRAB
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	2	--	Sample	=	21.31	=	31.99	26 - lb/d			=	2.7	=	4.133	19 - mg/L	0	03/07 - Three Per Week	24 - COMP24
					Permit Req.	<=	146.0 MO AVG	<=	233.7 MX WK AV	26 - lb/d			<=	25.0 MO AVG	<=	40.0 MX WK AV	19 - mg/L		03/07 - Three Per Week	24 - COMP24
					Value NODI															
					Sample			=	24.29	80 - Mgal/mo									01/30 - Monthly	RT - ROOTOT

82220	Flow, total	1 - Effluent Gross	0	--	Permit Req. Value NODI				Req Mon MO TOTAL80 - Mgal/mo									01/30 - Monthly	RT - RCOTOT
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Submission Note

If a parameter row does not contain any values for the Sample nor E ffluent Trading, then none of the following fields will be submitted for that row. Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
50060	Chlorine, total residual	X - End of Chlorine Contact Chamber	Quality or Concentration Sample Value 1	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes

Comments

Was adjusting chlorine to try and get it within range. The next day it both times it was back within range with the adjustments made.

Attachments

Name	Type	Size
IN002896_001A_MRO_2024_04.pdf	pdf	267254.0

Report Last Saved By

FORT BRANCH WWTP

User: FBWWPLANT@FORTBRANCH.ORG

Name: Brett Lemmons

E-Mail: fbsewer@fortbranch.org

Date/Time: 2024-05-22 15:06 (Time Zone: -04:00)

Report Last Signed By

User: FBWWPLANT@FORTBRANCH.ORG

Name: Brett Lemmons

E-Mail: fbsewer@fortbranch.org

Date/Time: 2024-05-22 15:06 (Time Zone: -04:00)



**MONTHLY REPORT OF OPERATION
ACTIVATED SLUDGE TYPE WASTEWATER
TREATMENT PLANT - STANDARD**

State Form 53483 (R7 / 2-23)

Name of Facility			Permit Number	
Fort Branch WWTP			IN0022896	
Month	Year	Plant Design Flow	Telephone Number	
April	2024	0.7 mgd	(812) 753-3824	
E-mail address: fbsewer@fortbranch.org			001	A
Certified Operator: Name		Class	Certificate Number	Expiration Date
Bryon S. Will		III	WWO11883	6/30/2025

Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Total=	Bypass At Plant Site ("X" If Occurred)	Collection System Overflow ("X" If Occurred)	CHEMICALS USED			RAW SEWAGE								
				Precipitation - Inches			Chlorine - Lbs	Lbs/Day or Gal./Day	Lbs/Day or Gal./Day	Influent Flow/Rate (if metered) MGD	pH	CBOD5 - mg/l	CBOD5 - lbs	Susp. Solids - mg/l	Susp. Solids - lbs	Phosphorus - mg/l	Ammonia - mg/l	
1	Mon	16						8.4		0.4264	8.4							
2	Tue	16		0.8				13		1.4952	8.2			35	436.45		13.2	
3	Wed	16		1.75				9.3		0.9586	8.3	27	215.9	48	383.75		10.8	
4	Thu	16						6.8		0.7137	8.4	34	202.4	64	380.94		10.1	
5	Fri	16						9.5		0.5999	8.4	35	175.1					
6	Sat	2						9.1		0.5685								
7	Sun	2						9.7		0.5774								
8	Mon	8						9		0.5396	8.4							
9	Tue	8						7.9		0.4949	8.4			38	156.84		10.2	
10	Wed	8						6.5		1.2818	8.3	31	331.4	32	342.09		9.25	
11	Thu	8		1.5				10.1		1.4608	8.1	15	182.7	50	609.15		2.17	
12	Fri	8		0.2				6.1		1.3329	8.2	15.7	174.5					
13	Sat	2						7.2		0.9176								
14	Sun	2						8.1		0.7999								
15	Mon	16						12		0.6431	8.3							
16	Tue	16						11.5		0.7439	8.4			29	179.92		15.7	
17	Wed	16		0.2				11.7		0.702	8.3	29	169.8	43	251.75		15.8	
18	Thu	16						11.8		0.9534	8.4	28	222.6	17	135.17		24.9	
19	Fri	16		1.3				9.7		1.1512	8.2	34	326.4					
20	Sat	2						9.7		0.9002								
21	Sun	2						10.3		0.6886								
22	Mon	8						8.9		0.715	8.2							
23	Tue	8						9.2		0.739	8.4			20	123.27		8.02	
24	Wed	8		0.3				9.4		0.624	8.3	26	135.3	32	166.53		11	
25	Thu	8						9.5		0.5694	8.4	30	142.5	26	123.47		12.4	
26	Fri	8						11.1		0.5886	8.4	40	196.4					
27	Sat	2						9.6		0.4833								
28	Sun	2						7.7		0.42								
29	Mon	8						9.8		0.7827	8.3							
30	Tue	16		0.5				9.3		0.6533	8.4			46	250.63		7.47	
Average								9.397		0.7842		29	206.2	37	272.31		11.6	
Maximum				1.75				13		1.4952	8.4	40	331.4	64	609.15		24.9	
Minimum								6.1		0.42	8.1	15	135.3	17	123.27		2.17	
No. of Data				8	0	0	0	30	0	30	22	12	12	13	13	0	13	0

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 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.

Prepared by or under the direction of (Certified Operator):

Date (month, day, year)

Signature of principal executive officer or authorized agent
(or attested by NetDMR subscriber agreement)

Date (month, day, year)

MONTHLY REPORT OF OPERATION
ACTIVATED SLUDGE TYPE WASTEWATER
TREATMENT PLANT - STANDARD

State Form 53463 (R7 / 2-23)

Name of Facility		Permit Number		For Month Of		Year													
Fort Branch WWTP		IN 0022896		April		2024													
Day Of Month	PRIMARY EFFLUENT		AERATION							SECONDARY EFFLUENT		FINAL EFFLUENT							
	CBOD5 - mg/l	Susp. Solids - mg/l	MIXED LIQUOR				RETURN SLUDGE			CBOD5 - mg/l	Susp. Solids - mg/l		Residual Chlorine - Final	Residual Chlorine - Contact Tank	E. Coli - colony/100 ml	pH - daily low (or single sample)	pH - daily high (if multiple samples)	Dissolved Oxygen - mg/l	Phosphorus - mg/l
			Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	Temperature - F	Volume - MG	Susp. Solids - mg/l										
1						1.3	66						0.02	0.62		8.5		9.9	
2			98.5	6894	143	0.2	65						0.02	0.92	49.5	8.3		8.2	
3			98.5	6016	164	0.2	63						0.01	0.78	54.2	8.3		9.1	
4			98.5	6428	153	0.2	61						0.02	0.8	47.2	8.4		9.6	
5						2.4	62						0.02	0.47		8.5		10.1	
6																			
7																			
8						2.9	61						0.01	0.81		8.5		10.2	
9			96.5	6130	157	1.7	65						0.02	0.66	76.7	8.5		9.8	
10			94.5	10408	91	1.7	65						0.02	0.97	19.9	8.5		9.6	
11			92	8028	115	1.1	65						0.02	0.53	34.5	8.3		8.5	
12						1.5	65						0.02	0.87		8.3		8.5	
13																			
14																			
15						3.4	64						0.02	0.42		8.4		9.6	
16			94.5	6344	149	2.0	67						0.01	0.7	37.7	8.5		9.5	
17			94.5	7674	123	2.7	65						0.02	0.67	57.8	8.5		9.4	
18			94.5	7418	127	2.7	64						0.02	0.89	59.2	8.5		9.7	
19						5.3	61						0.02	0.63		8.3		8.6	
20																			
21																			
22						2.2	62						0.01	0.87		8.2		9.5	
23			84.5	4184	202	2.2	64						0.02	0.63	65.7	8.3		9.8	
24			96.3	7016	137	2.1	63						0.02	0.92	30.9	8.6		9.7	
25			95	5230	182	2.5	64						0.02	0.94	43.7	8.5		10.0	
26						4.5	67						0.02	0.95		8.5		9.7	
27																			
28																			
29						2.6	67						0.02	0.84		8.5		9.6	
30			97.5	6554	149	0.1	65						0.02	0.77	78.8	8.3		8.9	
Avg.			95	6794	146	2.1	64						0.018	0.757	47			9.4	
Max.			98.5	10408	202	5.26	67						0.02	0.97	78.8	8.6		10.2	
Min.			84.5	4184	90.8	0.14	61						0.01	0.42	19.9	8.2		8.17	
Daily Max															79				
# of Days above 235															0				
Data	0	0	13	13	13	22	22	0	0	0	0	0	22	22	13	22	22	0	0
Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.):																			

MONTHLY REPORT OF OPERATION
ACTIVATED SLUDGE TYPE WASTEWATER
TREATMENT PLANT - STANDARD

State Form 53463 (R7 / 2-23)

Name of Facility	Permit Number	For Month Of	Year
Fort Branch WWTP	IN 0022896	April	2024

Day Of Month	Day of Week	FINAL EFFLUENT															
		Flow		BOD				Total Suspended Solids				Ammonia				Other	
		Effluent FlowRate (MGD)	Effluent Flow vWeekly Average	CBOD5 - mg/l	CBOD5 - mg/l vWeekly Average	CBOD5 - lbs	CBOD5 - lbs/day vWeekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l vWeekly Average	Susp. Solids - lbs	Susp. Solids - lbs/day vWeekly Average	Ammonia - mg/l	Ammonia - mg/l vWeekly Average	Ammonia - lbs	Ammonia - lbs/day vWeekly Average	Oil & Grease (mg/l)	
1	Mon	0.4436															
2	Tue	1.5554						2.1		27.26		1.41		18.3			
3	Wed	0.9938		3.7		30.69		4.5		37.32		0.505		4.188			
4	Thu	0.752		4.8		30.12		6.4		40.16		0.889		5.579			
5	Fri	0.5924		3.9		19.28											
6	Sat	0.5546	0.7605		4.133		26.7		4.333		34.91		0.935		9.356		
7	Sun	0.304															
8	Mon	0.8446															
9	Tue	0.518						1.8		7.781		0.038		0.164			
10	Wed	1.3525		2.7		30.47		1		11.29		0.954		10.77			
11	Thu	1.5115		2.4		30.27		1.6		20.18		1.38		17.41			
12	Fri	1.3617		3.1		35.23											
13	Sat	0.8791	0.9673		2.733		31.99		1.467		13.08		0.791		9.446		
14	Sun	0.8009															
15	Mon	0.6106															
16	Tue	0.7699						2.8		17.99		0.087		0.559			
17	Wed	0.6852		1.7		9.721		2.4		13.72		0.053		0.303			
18	Thu	0.9622		1.8		14.45		1.6		12.85		0.058		0.466			
19	Fri	1.5269		2.1		26.76											
20	Sat	0.8996	0.8936		1.867		16.98		2.267		14.85		0.066		0.443		
21	Sun	0.688															
22	Mon	0.6979															
23	Tue	0.7741						3		19.38		1.43		9.238			
24	Wed	0.6252		2		10.43		1.8		9.391		0.024		0.125			
25	Thu	0.5681		1.9		9.008		3.1		14.7		0.044		0.209			
26	Fri	0.619		1.8		9.298											
27	Sat	0.5119	0.6406		1.9		9.58		2.633		14.49		0.499		3.19		
28	Sun	0.4334															
29	Mon	0.7941															
30	Tue	0.6612						3.4		18.76		1.67		9.214			
Avg		0.8097		2.7		21.31		2.7		19.29		0.657		5.886			
Max		1.5554	0.9673	4.8	4.133	35.23	31.99	6.4	4.333	40.16	34.91	1.67	0.935	18.3	9.446		
Min		0.304	0.6406	1.7	1.867	9.008	9.58	1	1.467	7.781	13.08	0.024	0.066	0.125	0.443		
Data		30	4	12	4	12	4	13	4	13	4	13	4	13	4	0	0

MONTHLY REMOVAL SUMMARY					Total Monthly Flow:
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons) 24.29
Primary Treatment	NA	NA			
Secondary Treatment	NA	NA			Percent Capacity
Tertiary Treatment	NA	NA			(actual flow/design) 116%
Overall Treatment	90.7	92.6	94.3	NA	

**MONTHLY REPORT OF OPERATION
ACTIVATED SLUDGE TYPE WASTEWATER
TREATMENT PLANT - STANDARD**

State Form 53463 (R7 / 2-23)

Name of Facility	Plant Number	For Month Of	Year
Fort Branch WWTP	IN 0022896	April	2024

Day Of Month	SLUDGE TO DIGESTER		DIGESTER OPERATION											
	Primary Sludge Gal. x 1000	Waste Act. Sludge Gal. x 1000	Anaerobic Only			Supernatant Withdrawn hrs. or Gal. x 1000	Supernatant BOD5 mg/l or NH3-N mg/l	Total Solids in Incoming Sludge - %	Total Solids in Digested Sludge - %	Volatile Solids in Incoming Sludge - %	Volatile Solids in Digested Sludge - %	Digested Sludge Withdrawn hrs. or Gal. x 1000		
			pH	Gas Production Cubic Ft. x 1000	Temperature - F									
1						39.38								
2														
3														
4														
5		56.89												
6														
7														
8						43.76								
9														
10														
11														
12														
13		43.76												
14														
15						35.01								
16														
17												87.52		
18		61.26												
19														
20														
21														
22						61.26								
23														
24														
25														
26														
27														
28														
29		87.52												
30														
Avg.		62.36				44.85						87.52		
Max.		87.52				61.26						87.52		
Min.		43.76				35.01						87.52		
Data	0	4	0	0	0	4	0	0	0	0	0	1	0	0

Once completed, this form should be converted to a pdf document, named appropriately & attached to the corresponding netDMR for submittal