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Permit

Permit #:
Major:

IN0037176
Yes

Permittee:
Permittee Address:

COMMUNITY UTILITIES OF INDIANA INC WWTP
9201 E 123RD ST
LAKE OF THE FOUR SEASONS
CROWN POINT, IN 46307

Facility:
Facility Location:

COMMUNITY UTILITIES OF INDIANA INC
9201 E 123RD ST
(LAKE OF THE FOUR SEASONS)
CROWN POINT, IN 46307

Permitted Feature:

001
External Outfall

Discharge:

001-A
CLASS III, 1.1 MGD OUTFALL TO EAST BRANCH OF STONY RUN

Report Dates & Status

Monitoring Period:

From 08/01/24 to 08/31/24

DMR Due Date:

09/28/24

Status:

NetDMR Validated

Considerations for Form Completion

FLOW METER(S) SHALL BE CALIBRATED AT LEAST ONCE ANNUALLY. SEMI PUBLIC MAJOR LAKE COUNTY

Principal Executive Officer

First Name:
Last Name:

Steven
McAfee

Title:

Lead Operator

Telephone:

219-221-3385

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	1	--	Sample						=	7.8				19 - mg/L	0	05/WK - Five Per Week	4G - 4GR24H	
					Permit Req.						>=	6.0 DLYAVMIN				19 - mg/L		05/WK - Five Per Week	4G - 4GR24H	
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample						=	7.8			=	8.2	12 - SU	0	05/WK - Five Per Week	GR - GRAB
					Permit Req.						>=	6.0 DAILYMN			<=	9.0 DAILYMX	12 - SU		05/WK - Five Per Week	GR - GRAB
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	29.8	=	33.1	26 - lb/d			=	5.4	=	5.8	19 - mg/L	0	05/WK - Five Per Week	24 - COMP24
					Permit Req.	<=	184.0 MO AVG	<=	275.0 MX WK AV	26 - lb/d			<=	20.0 MO AVG	<=	30.0 MX WK AV	19 - mg/L		05/WK - Five Per Week	24 - COMP24
					Value NODI															
00800	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample	=	127.14			26 - lb/d			=	26.0			19 - mg/L	0	01/30 - Monthly	24 - COMP24
					Permit Req.		Req Mon MO AVG			26 - lb/d				Req Mon MO AVG			19 - mg/L		01/30 - Monthly	24 - COMP24
					Value NODI															
00810	Nitrogen, ammonia total [as N]	1 - Effluent Gross	1	--	Sample	=	0.6	=	0.6	26 - lb/d			=	0.1	=	0.1	19 - mg/L	0	05/WK - Five Per Week	24 - COMP24
					Permit Req.	<=	11.9 MO AVG	<=	18.4 MX WK AV	26 - lb/d			<=	1.3 MO AVG	<=	2.0 MX WK AV	19 - mg/L		05/WK - Five Per Week	24 - COMP24
					Value NODI															
00865	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample	=	3.8			26 - lb/d			=	0.7			19 - mg/L	0	05/WK - Five Per Week	24 - COMP24
					Permit Req.		Req Mon MO AVG			26 - lb/d			<=	1.0 MO AVG			19 - mg/L		05/WK - Five Per Week	24 - COMP24
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	0.67335			03 - MGD								0	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	0	--	Sample								=	0.02	=	0.02	19 - mg/L	0	05/WK - Five Per Week	GR - GRAB
					Permit Req.								<	0.06 MO AVG	<	0.06 DAILYMX	19 - mg/L		05/WK - Five Per Week	GR - GRAB
					Value NODI															
51041	E. coli, colony forming units [CFU]	1 - Effluent Gross	0	--	Sample								=	31.0	=	72.0	3Z - CFU/100mL	0	05/WK - Five Per Week	GR - GRAB
					Permit Req.								<=	125.0 MO GEO	<=	235.0 DAILYMX	3Z - CFU/100mL		05/WK - Five Per Week	GR - GRAB
					Value NODI															
					Sample	=	36.3	=	46.1	26 - lb/d			=	6.5	=	7.8	19 - mg/L		05/WK - Five Per Week	24 - COMP24

80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	1	--	Permit Req.	<=	156.0 MO AVG	<=	239.0 MX WK AV	26 - lb/d				<=	17.0 MO AVG	<=	28.0 MX WK AV	19 - mg/L	0	05/WK - Five Per Week	24 - COMP24	
					Value NODI																	
82220	Flow, total	1 - Effluent Gross	0	--	Sample	=	20.874		80 - Mgal/mo											0	01/30 - Monthly	RT - RCOTOT
					Permit Req.		Req Mon MO TOTAL	80 - Mgal/mo										01/30 - Monthly	RT - RCOTOT			
					Value NODI																	

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent 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

No errors.

Comments

Attachments

Name	Type	Size
IN0037176_001A_MRO_2024_08.pdf	pdf	364310.0

Report Last Saved By

COMMUNITY UTILITIES OF INDIANA INC WWTP

User: STEVEN.MCAFFEE@UIWATER.COM

Name: Steven McAfee

E-Mail: steven.mcafee@uiwater.com

Date/Time: 2024-09-12 17:20 (Time Zone: -04:00)

Report Last Signed By

User: STEVEN.MCAFFEE@UIWATER.COM

Name: Steven McAfee

E-Mail: steven.mcafee@uiwater.com

Date/Time: 2024-09-12 17:21 (Time Zone: -04:00)



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

State Form 10-829 (R9 / 2-23)

Name of Facility			Permit Number	
CUH - Twin Lakes			IN0037176	
Month	Year	Plant Design Flow	Telephone Number	
August	2024	1.1 mgd	219-221-3385	
E-mail address: Steven.McAfee@nexuswg.com			001	A
Certified Operator: Name		Class	Certificate Number	Expiration Date
Steven McAfee		III	WW021214	6/30/2027

Day of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Total= 3.85 Precipitation - Inches	Bypass At Plant Site ("X" If Occurred)	Sanitary Sewer Overflow ("X" If Occurred)	CHEMICALS USED			RAW SEWAGE								
							Chlorine - Lbs/day	Sodium Thio - Gal./Day	Alum - Gal./Day	Influent Flow/Rate (if metered) MGD	pH	CBOD5 - mg/l	CBOD5 - lbs/day	Susp. Solids - mg/l	Susp. Solids - lbs/day	Phosphorus - mg/l	Ammonia - mg/l	
1	Thu		75	0			58	59	64	0.618	8.1	180	927.74	204	1051.4	3.7	33	
2	Fri		72	0			55	56	60	0.542	7.8	180	813.65	358	1618.3	2.15	28	
3	Sat		71	0			58	59	61	0.55								
4	Sun		69	0.1			58	52	66	0.668								
5	Mon		75	0.1			58	51	62	0.624	7.8	180	936.75	212	1103.3	4.8	31	
6	Tue		75	0			43	41	46	0.618	8.1	150	773.12	182	938.05	1.55	29	
7	Wed		65	0			59	71	64	0.57	7.9	150	713.07	189	898.47	4.1	29	
8	Thu		67	0			50	56	64	0.556	8.1	170	788.3	166	769.75	3.95	31	
9	Fri		65	0			67	51	65	0.568	8.0	160	757.94	194	919	4.15	29	
10	Sat		56	0			58	55	62	0.544								
11	Sun		54	0			56	53	66	0.642								
12	Mon		63	0			58	52	69	0.59	8.0	170	836.5	244	1200.6	4.45	31	
13	Tue		70	0			52	52	68	0.594	7.7	160	792.63	226	1119.6	5.15	29	
14	Wed		68	0.2			56	51	62	0.576	7.7	170	816.65	178	855.08	3.9	30	
15	Thu		68	0.4			34	35	10	0.688	8.2	220	1262.3	248	1423	4.95	32	
16	Fri		70	0.4			58	51	70	0.746	7.9	190	1182.1	194	1207	3.6	30	
17	Sat		71	1.1			56	53	73	0.95								
18	Sun		70	0.3			57	55	77	0.99								
19	Mon		69	0			50	49	68	0.642	8.3	110	588.97	369	1975.7	3.6	22	
20	Tue		66	0			42	49	65	0.58	7.7	120	580.46	108	522.42	3.3	25	
21	Wed		61	0			34	46	72	0.574	8.1	140	670.2	174	832.97	3.7	32	
22	Thu		64	0			52	58	70	0.582	7.7	190	922.24	126	611.59	4.6	31	
23	Fri		63	0			36	34	42	0.57	7.9	150	713.07	178	846.18	3.85	32	
24	Sat		67	0			40	49	73	0.6								
25	Sun		75	0			45	48	68	0.656								
26	Mon		78	0			43	48	71	0.632	7.6	110	579.8	178	938.22	3.5	33	
27	Tue		77	1.25			49	51	67	0.964	8.0	110	884.37	173	1390.9	2.6	31	
28	Wed		74	0			51	48	70	0.774	7.6	110	710.07	132	852.08	2.25	25	
29	Thu		77	0			18	15	22	0.65	7.7	74	401.15	103	558.36	2.35	21	
30	Fri		78	0			44	34	48	0.698	8.1	110	640.35	112	651.99	2.9	24	
31	Sat		75	0			52	50	64	0.616								
Average							49.903	49.419	61.581	0.6507		150.18	785.98	193.09	1012.9	3.6	29	
Maximum							67	71	77	0.99	8.3	220	1262.3	369	1975.7	5.15	33	
Minimum							18	15	10	0.542	7.6	74	401.15	103	522.42	1.55	21	
# of Data							31	0	0	31	31	31	31	22	22	22	22	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)			
										Steven McAfee					9/12/2024			
										Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement)					Date (month, day, year)			
										Mike Miller					9/12/2024			

MONTHLY REPORT OF OPERATION
ACTIVATED SLUDGE TYPE
WASTEWATER TREATMENT PLANT

State Form 10829 (R9 / 2-23)

Name of Facility	Permit Number	For Month Of	Year
CULL - Twin Lakes	IN 0037176	August	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	Oil & Grease (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			23	3151	73	5.6	73						0.02	2.41	30.1	7.8		8.1	
2			22	2912	76	5.7	73						0.02	7.08	32.3	8.0		8.2	
3													0.02	6.6					
4						6.9	73						0.02	6.25					
5			22.7	3220	70	5.2	73						0.02	3.93	29.2	7.9		8.1	
6			22	3052	72	5.4	74						0.02	3.14	45	7.9		7.9	
7			21.3	2947	72	5.9	72						0.02	6.75	27.5	7.9		8.3	
8			21	2884	73	6.0	72						0.02	6.28	72.3	7.9		8.3	
9			20.3	2912	70	6.0	72						0.02	7.08	21.8	7.9		8.2	
10													0.02	11.2					
11						7.6	70						0.02	10.3					
12			21.3	3072	69	5.8	70						0.02	8.23	35.5	7.9		8.5	
13			21.3	3096	69	6.2	70						0.02	9.1	49.5	7.9		8.3	
14			19.7	2976	66	6.1	71						0.02	3.9	27.9	7.8		8.3	
15			19.3	2761	70	6.0	71						0.02	5.95	50.4	8.0		8.3	
16			19	2729	70	5.9	71						0.02	5.5	44.8	7.9		8.2	
17													0.02	5.23					
18						5.5	72						0.02	2.67					
19			20	3161	63	6.1	71						0.02	5.05	42.8	8.1		8.3	
20			21.3	3160	67	6.2	70						0.02	3.63	26.2	7.9		8.5	
21			19	2960	64	6.1	70						0.02	2.98	30.7	8.0		8.6	
22			20	3095	65	6.4	69						0.02	5.11	22.8	7.9		8.4	
23			19.3	3003	64	6.2	70						0.02	3.42	37.9	7.9		8.4	
24													0.02	2.22					
25						5.7	73						0.02	4.65					
26			20.7	3287	63	5.4	73						0.02	2.75	62.4	8.0		7.8	
27			19.7	2391	82	5.6	73						0.02	3.65	38.4	7.9		7.8	
28			18.7	2601	72	6.1	73						0.02	2.3	45	7.8		8.0	
29			19	2443	78	5.9	73						0.02	7.39	40.2	7.9		8.0	
30			18.7	2629	71	5.9	74						0.02	8.5	1	8.2		8.4	
31													0.02	2.6					
Avg.			20.423	2929.2	69.987	5.98	71.8						0.02	5.35	31			8.22	
Max.			23	3287	82.392	7.6	74						0.02	11.2	72.3	8.2		8.6	
Min.			18.7	2391	62.975	5.2	69						0.02	2.22	1	7.8		7.8	
Daily Max																72			
# of Days above 235																0			
Data	0	0	22	22	22	26	26	0	0	0	0		31	31	22	22	22	22	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

State Form 10829 (R9 / 2-23)

Name of Facility	Permit Number	For Month Of	Year
CUII - Twin Lakes	IN0037176	August	2024

Day Of Month	Day of Week	FINAL EFFLUENT															
		Flow		BOD				Total Suspended Solids				Ammonia				Phosphorus	
		Effluent Flow Rate (MGD)	Effluent Flow Weekly Average	CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - lbs/day	CBOD5 - lbs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - lbs/day	Susp. Solids - lbs/day Weekly Average	Ammonia - mg/l	Ammonia - mg/l Weekly Average	Ammonia - lbs/day	Ammonia - lbs/day Weekly Average	Phosphorus - mg/l	Phosphorus - lbs/day
1	Thu	0.586		6.7		32.764		6		29.341		0.1		0.489		0.75	3.67
2	Fri	0.562		8.2		38.457		6.3		29.546		0.15		0.7035		0.9	4.22
3	Sat	0.589															
4	Sun	0.641															
5	Mon	0.603		6.2		31.199		6.6		33.211		0.16		0.8051		0.7	3.52
6	Tue	0.696		8.4		48.788		5.4		31.364		0.1		0.5808		0.35	2.03
7	Wed	0.698		7.4		43.104		5.2		30.289		0.1		0.5825		1	5.82
8	Thu	0.722		6.3		37.958		5.9		35.548		0.11		0.6628		0.95	5.72
9	Fri	0.701		8.6		50.309		6		35.099		0.1		0.585		1	5.85
10	Sat	0.695	0.6794		7.38		42.271		5.82		33.102		0.114		0.6432		
11	Sun	0.766															
12	Mon	0.705		7.9		46.477		6.2		36.476		0.15		0.8825		1	5.88
13	Tue	0.771		7.9		50.829		4.4		28.31		0.1		0.6434		0.75	4.83
14	Wed	0.672		11		61.686		5.6		31.404		0.1		0.5608		0.8	4.49
15	Thu	0.624		6		31.244		5.6		29.161		0.1		0.5207		0.65	3.38
16	Fri	0.757		6.4		40.43		5.5		34.744		0.1		0.6317		0.85	5.37
17	Sat	0.825	0.7314		7.84		46.133		5.46		32.019		0.11		0.6478		
18	Sun	0.797															
19	Mon	0.83		7.2		49.87		6.2		42.943		0.1		0.6926		0.45	3.12
20	Tue	0.726		7.5		45.439		4.2		25.446		0.1		0.6058		0.65	3.94
21	Wed	0.637		7.4		39.337		4		21.263		0.11		0.5847		0.2	1.06
22	Thu	0.558		4.5		20.954		4.4		20.489		0.1		0.4657		0.7	3.26
23	Fri	0.532		7.1		31.521		4.8		21.31		0.1		0.444		0.85	3.77
24	Sat	0.606	0.6694		6.74		37.424		4.72		26.29		0.102		0.5586		
25	Sun	0.709															
26	Mon	0.513		4.7		20.121		4.7		20.121		0.19		0.8134		0.5	2.14
27	Tue	0.729		4		24.334		4.4		26.767		0.1		0.6084		0.65	3.95
28	Wed	0.633		3.7		19.545		5.4		28.525		0.1		0.5282		0.55	2.91
29	Thu	0.65		3.1		16.815		5		27.121		0.1		0.5424		0.5	2.71
30	Fri	0.667		3.1		17.255		6.6		36.736		0.1		0.5566		0.4	2.23
31	Sat	0.674	0.6536		3.72		19.614		5.22		27.854		0.118		0.6098		
Avg		0.6734		6.5		36.292		5.4		29.782		0.1123		0.6132		0.6886	3.81
Max		0.83	0.7314	11	7.84	61.686	46.133	6.6	5.82	42.943	33.102	0.19	0.118	0.8825	0.6478	1	5.88
Min		0.513	0.6536	3.1	3.72	16.815	19.614	4	4.72	20.121	26.29	0.1	0.102	0.444	0.5586	0.2	1.06
Data		31	4	22	4	22	4	22	4	22	4	22	4	22	4	22	22

MONTHLY REMOVAL SUMMARY					Total Monthly Flow (million gallons)
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	20.874
Primary Treatment	NA	NA			Percent Capacity (actual flow/design) 61%
Secondary Treatment	NA	NA			
Tertiary Treatment	NA	NA			
Overall Treatment	95.7	97.2	99.6	80.8	
Phosphorus limit would be 75 % removal. (compliance achieved)					

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

State Form 10829 (R9 / 2-23)

Name of Facility	Permit Number	For Month Of	Year
CUII - Twin Lakes	IN0037176	August	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	0	
			pH	Gas Production Cubic Ft. x 1000	Temperature - F									
1		10.4												
2		10.4												
3														
4														
5		10.4												
6		10.4												
7		10.5												
8		10.4												
9		5.2												
10														
11														
12		10.5												
13		10.4												
14		12.6												
15		10.5												
16		5.2												
17														
18														
19		5.2												
20		11.3												
21		5												
22		10400												
23		10400												
24														
25														
26														
27														
28		52000												
29														
30														
31														
Avg.		4052.1												
Max.		52000												
Min.		5												
Data	0	18	0	0	0	0	0	0	0	0	0	0	0	0

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

MONTHLY REPORT OF OPERATION
 ACTIVATED SLUDGE TYPE
 WASTEWATER TREATMENT PLANT

State Form 10829 (R9 / 2-23)

Name of Facility	Permit Number	For Month Of:	Year
CUII - Twin Lakes	IN0037176	August	2024

Substitute for State Form 30530

Day Of Month	Final Effluent																
	Chloride		Total Nitrogen														
	Chloride - mg/l	Chloride - lbs/day	Total Nitrogen- mg/l	Total Nitrogen- lbs/day													
1			26	127.14													
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
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22																	
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	
31																	
Avg			26	127.14													
Max			26	127.14													
Min			26	127.14													
Data	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0

State Form 10829 (R9 / 2-23)

[illegible]