



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

State Form 10829 (R9 / 12-22)

Name of Facility City of Charlestown			Permit Number IN0020508		
Month March	Year 2023	Plant Design Flow 2.2 mgd	Telephone Number 812-786-6594		
E-mail address: Wastewaterdirector@cityofcharlestown.com				001	A
Certified Operator: Name Timothy Crawford		Class V	Certificate Number WW013156	Expiration Date 6/30/2025	

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Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Total= 7.1 Precipitation - Inches	Bypass At Plant Site ("x" If Occurred)	Sanitary Sewer Overflow ("x" If Occurred)	CHEMICALS USED			RAW SEWAGE							Day Of Month		
							Chlorine - Lbs/day	Lbs/Day or Gal./Day	Lbs/Day or 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	Wed			0.2						0.837	7.6	145	1012.2	106	739.94	4.62	21.8	1	
2	Thu			1.5						1.031	7.6	115	988.83	94	808.26	5.07	5.7	2	
3	Fri			1.5						3.166	7.5	114	3010.1	103	2719.7	4.31	21.7	3	
4	Sat			0						3.061								4	
5	Sun			0						1.814								5	
6	Mon			0						1.371	7.3	53	606.01	23	262.99	1.52	6.56	6	
7	Tue			0						1.012	7.5	63	531.73	49	413.56	2.75	10.9	7	
8	Wed			0						0.928	7.5	69	534.03	66	510.81	2.86	13.7	8	
9	Thu			0						0.945	7.7	101	796.01	86	677.79	3.56	15.5	9	
10	Fri			0.1						0.839	7.0	117	818.68	123	860.66	3.76	15.1	10	
11	Sat			0						0.785								11	
12	Sun			0						0.783								12	
13	Mon			0						0.714	7.3	144	857.49	120	714.57	4.69	19.1	13	
14	Tue			0						0.658	7.3	166	910.96	154	845.11	4.71	24.6	14	
15	Wed			0						0.636	7.5	152	806.24	109	578.16	5.34	22.8	15	
16	Thu			0						0.646	7.3	155	835.08	91	490.28	5.28	26.4	16	
17	Fri			0.1						0.718	7.6	170	1018	117	700.61	5.88	27.3	17	
18	Sat			0						0.618								18	
19	Sun			0						0.586								19	
20	Mon			0						0.556	7.5	176	816.12	194	899.59	5.63	21.6	20	
21	Tue			0						0.551	7.3	183	840.95	174	799.59	5.5	26.3	21	
22	Wed			0.1						0.592	8.0	181	893.65	280	1382.4	5.58	26.2	22	
23	Thu			0						1	7.7	177	1476.2	146	1217.6	5.72	28.3	23	
24	Fri			1.5						2.485	7.2	178	3689	137	2839.3	5.04	19.4	24	
25	Sat			1.9						2.996								25	
26	Sun			0						2.352								26	
27	Mon			0						1.337	7.3	66	735.94	20	223.01	1.43	6.33	27	
28	Tue			0						1.064	7.4	103	914	71	630.04	2.38	8.38	28	
29	Wed			0						0.988	7.5	96	791.03	63	519.11	2.68	2.49	29	
30	Thu			0						0.935	7.6	112	873.36	169	1317.8	3.43	13.9	30	
31	Fri			0.2						1.832	7.6	97	1482.1	214	3269.7	3.4	16.8	31	
Average										1.2205		127.5	1097.3	117.8	1018.3	4.137	17.43	Avg.	
Maximum				1.9						3.166	8.0	183	3689	280	3269.7	5.88	28.3	Max.	
Minimum										0.551	7.0	53	531.73	20	223.01	1.43	2.49	Min.	
# of Data				31	0	0	0	0	0	31	23	23	23	23	23	23	23	0	Daily I # of D. Data

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)	Comm
Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement)	Date (month, day, year)	

**VATED SLUDGE TYPE  
TEWATER TREATMENT PLANT**

rm 10829 (R9 / 12-22)

Facility	Permit Number	For Month Of:	Year
Charlestown	IN0020508	March	2023

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									
		68	4948	137	2.8		2.108	7465						2	7.8		
		71	4925	144	2.1		2.136	7155						2	7.7		
		69	5008	138	2.7		2.405	8177						2	7.6		
							2.009							12.1			
							1.881										
		23	2314	99	5.9		2.107	11372							7.6		
		65	4741	137	3.3		2.182	6077						32.3	7.6		
		68	4985	136	1.9		2.206	5619						1	7.7		
		60	4814	125	4.1		2.261	6213						2	7.7		
		67	4525	148	2.9		2.272	5050						1	7.4		
							2.22							1			
							2.112										
		50	4173	120	4.1		2.243	6007							7.4		
		65	4380	148	4.9		2.228	5511						1	7.5		
		59	4515	131	5.0		2.154	4582						1	7.4		
		60	4581	131	3.8		2.13	4933						2	7.4		
		49	3499	140	1.9		2.316	6035						1	7.2		
							2.229							1			
							2.116										
		75	4460	168	4.7		2.249	4977							7.4		
		70	4492	156	4.4		2.082	5909						2	7.4		
		53	3478	152	2.0		2.524	5918						1	7.4		
		67	4179	160	1.1		1.957	5698						1	7.4		
		65	4688	139	1.6		2.12	6176						1	7.4		
							2.203							210			
							1.979										
		33	2716	122	3.4		2.217	5456							7.5		
		53	3983	133	4.6		2.184	5356						39.9	7.6		
		63	4169	151	3.7		2.22	6018						2	7.6		
		60	4322	139	3.8		2.101	6221						1	7.7		
		55	3810	144	1.9		2.384	6060						5.2	7.6		
		59.48	4248	139.1	3.324		2.179	6173						3			
		75	5008	168.2	5.91		2.524	11372						210	7.8		
		23	2314	99.39	1.05		1.881	4582						1	7.2		
Max																	
ays above 235																	
0	0	23	23	23	23	0	31	23	0	0	0	0	23	23	0	0	

events for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.):

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WASTEWATER TREATMENT PLANT**

State Form 10829 (R9 / 12-22)

Name of Facility City of Charlestown	Permit Number IN0020508	For Month Of: March	Year 2023
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		FINAL EFFLUENT															
Day Of Month	Day of Week	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	Wed	0.814		2		13.59		3		20.38		0.043		0.292		0.869	5.903
2	Thu	0.965		1		8.053		2		16.11		0.317		2.553		0.866	6.974
3	Fri	3.666		2		61.19		2		61.19		0.222		6.792		0.901	27.56
4	Sat	2.281	1.4494		1.5		18.25		2.167		23.11		0.243		2.5535		
5	Sun	1.9															
6	Mon	1.203		2		20.08		7		70.27		0.167		1.677		0.59	5.923
7	Tue	0.951		1		7.936		4		31.74		0.342		2.714		0.523	4.151
8	Wed	0.87		2		14.52		2		14.52		0.093		0.675		0.321	2.331
9	Thu	0.9		1		7.511		2		15.02		0.015		0.113		0.337	2.531
10	Fri	0.8		1		6.676		2		13.35		0.015		0.1		0.415	2.771
11	Sat	0.788	1.0589		1.4		11.34		3.4		28.98		0.126		1.0557		
12	Sun	0.757															
13	Mon	0.712		1		5.942		3		17.82		0.118		0.701		0.626	3.719
14	Tue	0.677		1		5.65		2		11.3		0.096		0.542		0.692	3.909
15	Wed	0.623		1		5.199		2		10.4		0.015		0.078		0.628	3.265
16	Thu	0.62		1		5.174		2		10.35		0.015		0.078		0.694	3.591
17	Fri	0.7		1		5.842		3		17.52		0.112		0.654		0.737	4.305
18	Sat	0.608	0.671		1		5.561		2.4		13.48		0.071		0.4107		
19	Sun	0.583															
20	Mon	0.582		1		4.857		3		14.57		0.123		0.597		0.734	3.565
21	Tue	0.523		2		8.729		2		8.729		0.015		0.065		0.746	3.256
22	Wed	0.59		1		4.924		1		4.924		0.019		0.094		0.718	3.535
23	Thu	0.972		1		8.111		2		16.22		0.095		0.771		0.739	5.994
24	Fri	2.441		1		20.37		1		20.37		0.389		7.924		0.776	15.81
25	Sat	2.928	1.2313		1.2		9.398		1.8		12.96		0.128		1.8902		
26	Sun	2.302															
27	Mon	1.34		1		11.18		6		67.09		0.737		8.241		0.56	6.262
28	Tue	1.013		1		8.453		2		16.91		0.043		0.363		0.391	3.305
29	Wed	0.955		1		7.969		2		15.94		0.015		0.12		0.385	3.068
30	Thu	0.861		3		21.56		13		93.41		0.015		0.108		0.451	3.24
31	Fri	1.762	1.3701	3	1.8	44.11	18.65	7	6	102.9	59.25	0.015	0.165	0.221	1.8105	0.45	6.617
Avg		1.1835		1.4		13.37		3.3		29.18		0.132		1.542		0.615	5.721
Max		3.666	1.4494	3	1.8	61.19	18.65	13	6	102.9	59.25	0.737	0.243	8.241	2.5535	0.901	27.56
Min		0.523	0.671	1	1	4.857	5.561	1	1.8	4.924	12.96	0.015	0.071	0.065	0.4107	0.321	2.331
Data		31	5	23	5	23	5	23	5	23	5	23	5	23	5	23	23

MONTHLY REMOVAL SUMMARY					Total Monthly Flow:	
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons)	
Primary Treatment	NA	NA			36.687	
Secondary Treatment	NA	NA				
Tertiary Treatment	NA	NA				
Overall Treatment	98.9	97.2	99.2	85.1		
					Percent Capacity (actual flow/design)	
					54%	
Phosphorus limit would be 80 % removal. (compliance achieved)						

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WASTEWATER TREATMENT PLANT**

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Name of Facility	Permit Number	For Month Of:	Year
City of Charlestown	IN0020508	March	2023

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		18												
2		24												
3		25												
4		0												
5		0												
6		21												
7		21												
8		17												
9		20												
10		21												
11		0												
12		0												
13		15												
14		17												
15		18												
16		18												
17		16												
18		0												
19		0												
20		16												
21		16												
22		13												
23		0												
24		17												
25		0												
26		0												
27		4												
28		8												
29		22												
30		22												
31		24												
Avg.		12.68												
Max.		25												
Min.		0												
Data	0	31	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 / 12-22)

Name of Facility	Permit Number	For Month Of:	Year
City of Charlestown	IN0020508	March	2023

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																						
2																						
3																						
4																						
5																						
6																						
7			3.94	31.2682																		
8																						
9																						
10																						
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30																						
31																						
Avg			3.94	31.2682																		
Max			3.94	31.2682																		
Min			3.94	31.2682																		
Data	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

