



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

State Form 53463 (R6 / 3-20)

Name of Facility Western Wayne RSD			Permit Number IN0054402		
Month December	Year 2023	Plant Design Flow 1.8 mgd	Telephone Number 765-478-3788		
E-mail address: wrrsd@frontier.com				001	A
Certified Operator: Name Michael Stuckey		Class III	Certificate Number 22152	Expiration Date 6/30/2026	

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 0.5			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	Fri								7.5	0.522	7.8									
2	Sat								7.5	0.576										
3	Sun								7.5	0.71		259	1533.6	104	615.83	8.31	31.4			
4	Mon								7.5	0.636	7.7	196	1039.6	192	1018.4	10.1	31.2			
5	Tue								7.5	0.796	7.5	264	1752.6	500	3319.3	16.2	32.2			
6	Wed								7.5	0.85	7.5	322	2282.7	694	4919.8	18	28.7			
7	Thu								6	0.846	7.5	269	1898	548	3866.5	9.12	31.7			
8	Fri								6	0.84	7.5									
9	Sat								6	0.88										
10	Sun								6	0.791		311	2051.6	173	1141.3	11.6	30.5			
11	Mon								6	0.839	7.6	196	1371.5	134	937.63	6.36	28.7			
12	Tue								6	0.9	7.8	203	1523.7	262	1966.6	7.28	18.6			
13	Wed								6	0.875	7.5	276	2014.1	404	2948.2	12.1	30.9			
14	Thu								6	0.883	7.5	269	1981	204	1502.3	8.28	30.6			
15	Fri								5	0.843	7.4									
16	Sat								5	0.855										
17	Sun								5	0.843		274	1926.4	330	2320.1	14.9	35.6			
18	Mon			0.5					5	0.845	7.7	273	1923.9	140	986.62	8.18	28			
19	Tue								5	0.863	7.7	158	1137.2	79	568.6	10.6	20.4			
20	Wed								5	0.874	7.7	462	3367.6	794	5787.6	9.47	29.1			
21	Thu								5	0.87	7.1	438	3178	1296	9403.5	11.6	29.3			
22	Fri								7	0.816	7.3									
23	Sat								7	0.862										
24	Sun								7	0.613		284	1451.9	802	4100.2	8.06	29.7			
25	Mon								6	0.478	7.5	259	1032.5	205	817.24	7.08	20.5			
26	Tue								5.5	0.824	7.5	259	1779.9	175	1202.6	5.8	20.1			
27	Wed								5.5	0.897	7.8	257	1922.6	250	1870.2	8.5	28.6			
28	Thu								5	0.897	7.5	218	1630.9	358	2678.2	8.57	24.8			
29	Fri								5	0.857	7.6									
30	Sat								4.5	0.857										
31	Sun								4.5	0.667		283	1574.3	373	2074.9	6.89	26.7			
1	Mon	Fill in January's effluent data on page 3 as needed for weekly average calculations.									0.451									
2	Tue										0.808									
3	Wed										0.867									
Average									5.968	0.7969		273	1827.3	382	2573.6	9.86	28			
Maximum				0.5					7.5	0.9	7.8	462	3367.6	1296	9403.5	18	35.6			
Minimum									4.5	0.478	7.1	158	1032.5	79	568.6	5.8	18.6			
No. of Data				1	0	0		0	31	0		31	21	21	21	21	21	21	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): Michael Stuckey					Date (month, day, year) 1/8/2024					
										Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement) Michael Stuckey					Date (month, day, year) 1/8/2024					

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ACTIVATED SLUDGE TYPE WASTEWATER
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Name of Facility Western Wayne RSD	Permit Number IN0054402	For Month Of: December	Year 2023
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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			14	3708	38	2.5	21	0.522	3848						7.6		7.3	
2								0.576										
3								0.596										1.36
4			18	3092	58	4.2	20	0.554	10636					7.9		7.2	1.09	
5			21	3176	66	4.3	19	0.478	9680					7.5		7.3	0.771	
6			20	3536	57	2.2	20	0.484	13384					7.5		7.5	0.648	
7			28	3700	76	1.0	20	0.456	14424					7.5		7.3	0.834	
8			22	3688	60	2.5	21	0.455	11296					7.6		7.0		
9								0.526										
10								0.543										0.843
11			21	2460	85	2.7	21	0.51	13520					7.6		7.6	0.835	
12			19	3452	55	3.1	20	0.54	5488					7.1		7.8	0.88	
13			20	2768	72	3.9	20	0.529	8308					7.6		7.8	0.775	
14			18	2828	64	1.2	21	0.539	11052					7.5		7.4	0.853	
15			16	2540	63	4.3		0.527	8992					7.5		7.6		
16								0.585										
17								0.588										1.32
18			16	2424	66	4.4	20	0.574	8496					7.7		8.0	1.34	
19			17	2568	66	5.1	20	0.54	7468					7.6		8.0	1.16	
20			16	2304	69	5.7	20	0.564	6636					7.7		8.0	1.1	
21			19	2580	74	2.5	20	0.526	10248					7.8		7.7	1.16	
22			20	2988	67	5.1	22	0.575	11900					7.5		7.2		
23								0.554										
24								0.565										0.331
25			20			2.5	22	0.572	11920					7.5		6.7	0.341	
26			24	3788	63	4.2	20	0.503	7204					7.7		6.7	0.198	
27			24	3788	63	3.6	20	0.368	8820					7.6		6.9	0.371	
28			24			4.0	21	0.548	7136					7.6		6.7	0.443	
29			28	3884	72	4.8	21	0.558	8572					7.7		6.7		
30						5.7	22	0.435								7.0		
31						5.8	21	0.995								7.2	0.448	
Avg.			20	3120	65	3.7	21	0.545	9478							7.3	0.8	
Max.			28	3884	85.37	5.8	22	0.995	14424					7.9		8	1.36	
Min.			14	2304	37.76	1	19	0.368	3848					7.1		6.7	0.198	
Daily Max														#NUM!				
# of Days above 235														0				
Data	0	0	21	19	19	23	22	31	21	0	0	0	0	0	21	23	21	

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

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Name of Facility	Permit Number	For Month Of:	Year
Western Wayne RSD	IN0054402	December	2023

		FINAL EFFLUENT															
Day Of Month	Day of Week	Flow		BOD				Total Suspended Solids				Ammonia				Other	
		Effluent Flow Rate (MGD)	Effluent Flow Weekly Average	CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - lbs	CBOD5 - lbs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - lbs	Susp. Solids - lbs/day Weekly Average	Ammonia - mg/l	Ammonia - mg/l Weekly Average	Ammonia - lbs	Ammonia - lbs/day Weekly Average	Oil & Grease (mg/l)	
1	Fri	0.788															
2	Sat	0.754															
3	Sun	0.641		4.4	23.54			13.9	74.35			2.9	15.51				
4	Mon	0.656		2.5	13.69			8.6	47.08			1.08	5.912				
5	Tue	0.745		3.1	19.27			15.5	96.36			0.136	0.846				
6	Wed	0.807		2.7	18.18			7.8	52.53			0.092	0.62				
7	Thu	0.724		3.3	19.94			6.2	37.46			1.43	8.64				
8	Fri	0.746															
9	Sat	0.81	0.7327		3.2		18.92		10.4		61.56		1.128		6.306		
10	Sun	0.718		2.5	14.98			10.9	65.31			0.081	0.485				
11	Mon	0.774		2.3	14.86			9.4	60.71			0.056	0.362				
12	Tue	0.805		3.1	20.82			5.2	34.93			0.063	0.423				
13	Wed	0.798		3.1	20.64			6.3	41.95			0.099	0.659				
14	Thu	0.777		3.7	23.99			10.6	68.73			0.687	4.455				
15	Fri	0.759															
16	Sat	0.783	0.7734		2.94		19.06		8.48		54.33		0.197		1.277		
17	Sun	0.763		3.4	21.65			5.8	36.93			0.053	0.337				
18	Mon	0.756		2.8	17.66			4.2	26.5			0.046	0.29				
19	Tue	0.798		2.3	15.32			5.6	37.29			0.049	0.326				
20	Wed	0.794		3	19.88			5.9	39.09			0.05	0.331				
21	Thu	0.764		2.8	17.85			9.2	58.66			0.074	0.472				
22	Fri	0.742															
23	Sat	0.781	0.7711		2.86		18.47		6.14		39.69		0.054		0.351		
24	Sun	0.551		4	18.39			8.7	40			0.052	0.239				
25	Mon	0.42		4.5	15.77			9.2	32.25			0.02	0.07				
26	Tue	0.732		2.7	16.49			7.1	43.37			0.036	0.22				
27	Wed	0.871		2	14.54			7.4	53.79			0.028	0.204				
28	Thu	0.81		2.3	15.55			9.2	62.19			0.028	0.189				
29	Fri	0.84															
30	Sat	0.781	0.715		3.1		16.15		8.32		46.32		0.033		0.184		
31	Sun	0.588		2.6	12.76			7.4	36.31			0.034	0.167				
1	Mon	0.422		2.3	8.09966			11	38.7375			0.021	0.07395				
2	Tue	0.698		2.3	13.3971			6.6	38.4437			0.036	0.20969				
3	Wed	0.755		2.3	14.4911			7.8	49.1437			0.021	0.13231				
Avg		0.7444		2.9	16.88			8.1	47.73			0.186	1.116				
Max		0.871	0.7734	4.5	3.2	23.99	19.06	15.5	10.4	96.36	61.56	1.43	1.128	8.64	6.306		
Min		0.42	0.715	2	2.86	12.76	16.15	4.2	6.14	26.5	39.69	0.02	0.033	0.07	0.184		
Data		31	4	21	4	21	4	21	4	21	4	21	4	21	4	0	0

MONTHLY REMOVAL SUMMARY					Total Monthly Flow:
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons) 23.08
Primary Treatment	NA	NA			
Secondary Treatment	NA	NA			Percent Capacity
Tertiary Treatment	NA	NA			(actual flow/design) 41%
Overall Treatment	99.0	97.9	99.3	91.7	
Phosphorus limit would be 1 mg/l. (compliance achieved)					

