

Poon, Peter

From: Michele Gerke <Michele.Gerke@cityoffortwayne.org>
Sent: Friday, December 6, 2024 10:01 AM
To: DWBMGR; IDEM DWBMRO; Poon, Peter
Cc: Jason Anspach; Brian Robinson; Miranda Sparkman; Andrew Schipper
Subject: IN5202020_01_202411 Reports
Attachments: IN5202020_01_202411 Reports.pdf

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Attached are the November 2024 reports for the City of Fort Wayne, Three Rivers Filtration Plant (PWSID: IN5202020).

If you have any questions or concerns, please feel free to contact either Jason Anspach or Andrew Schipper.

Thank You,

Michele Gerke

Water Quality Supervisor
Three Rivers Filtration Plant
Fort Wayne City Utilities – Drinking Water Plant
1100 Griswold Drive
Ft. Wayne, IN 46805



Indiana Department of Environmental Management
Office of Water Quality
Drinking Water Branch - Compliance Section

Filter Backwash Recycling Rule Record keeping Form

PWSID # IN5202020

November-24

Three Rivers Filtration Plant

POE: Spent Filter Backwash is returned to the Head of the Plant

Type of Recycle Stream	Frequency at which flow is returned (or N/A)
Spent Filter Backwash	After each Backwash
Thickened Supernatant	N/A
Liquids from Dewatering Process	N/A
Other (specify)	N/A

Filter Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Avg Duration of Backwash (minutes)	13.33	13.33	13.33	12.5	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33
Max Duration of Backwash (minutes)	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33
Average Backwash Flow (gpm)														
Maximum Backwash Flow (gpm)	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000
Run Length Time of Filter (hrs)	700.5	716.5	702.5	720.5	609.5	705	703.5	700.5	703.5	703.5	607.5	703	696	707
Criteria for Terminating Run														
Number of times for "Run Time"	7	7	7	7	6	7	7	7	7	7	6	7	7	7
Number of times for "Turbidity"	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of times for "Head Loss"	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Filter Number	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Avg Duration of Backwash (minutes)	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33
Max Duration of Backwash (minutes)	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33
Average Backwash Flow (gpm)														
Maximum Backwash Flow (gpm)	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000
Run Length Time of Filter (hrs)	690.5	708.5	696	688.5	703.5	714	687.5	695	786.5	698.5	691	673.5	690.5	682.5
Criteria for Terminating Run														
Number of times for "Run Time"	7	7	7	6	7	7	7	7	8	7	7	7	7	7
Number of times for "Turbidity"	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Number of times for "Head Loss"	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Was treatment or water equalization provided to the recycle flows?

Yes

Type of Treatment Provided Before Recycling		equalization
Typical Hydraulic Loading Rate (gpm/ft ²)	NA	
Maximum Hydraulic Loading Rate (gpm/ft ²)	NA	
Specify Type of Chemical used	NA	
Average Dose of Chemical (mg/L)	NA	
Frequency of Chemical Addition	NA	
Frequency at Which Solids are Removed	NA	
Monthly Amount of Solids Removed	NA	
Disposal or Treatment Method Used to Treat the Solids	NA	

Three Rivers Filtration Plant
PWSID: 5202020



Date	Recycled MG/day	Plant Production MG/day	Recycled gal/min	Plant Production gal/min	% recycled
01-Nov-24	1.60	35.55	1111.04	24685.92	4.50
02-Nov-24	1.20	32.92	833.28	22860.34	3.65
03-Nov-24	1.40	35.62	972.16	24733.83	3.93
04-Nov-24	1.00	35.21	694.40	24447.74	2.84
05-Nov-24	1.40	38.66	972.16	26846.89	3.62
06-Nov-24	1.20	35.28	833.28	24494.96	3.40
07-Nov-24	1.40	34.77	972.16	24143.59	4.03
08-Nov-24	1.30	33.77	902.72	23448.50	3.85
09-Nov-24	1.60	33.09	1111.04	22977.00	4.84
10-Nov-24	1.40	33.32	972.16	23140.19	4.20
11-Nov-24	1.40	34.61	972.16	24030.41	4.05
12-Nov-24	1.40	34.22	972.16	23760.28	4.09
13-Nov-24	0.80	33.70	555.52	23399.20	2.37
14-Nov-24	0.60	35.58	416.64	24709.53	1.69
15-Nov-24	1.40	34.86	972.16	24208.17	4.02
16-Nov-24	1.20	33.73	833.28	23424.89	3.56
17-Nov-24	1.40	33.73	972.16	23424.20	4.15
18-Nov-24	1.40	34.34	972.16	23842.22	4.08
19-Nov-24	1.40	35.11	972.16	24382.47	3.99
20-Nov-24	1.20	33.49	833.28	23255.46	3.58
21-Nov-24	1.20	33.41	833.28	23197.13	3.59
22-Nov-24	1.20	33.78	833.28	23456.14	3.55
23-Nov-24	1.80	33.02	1249.92	22926.31	5.45
24-Nov-24	1.40	33.82	972.16	23482.52	4.14
25-Nov-24	1.40	35.12	972.16	24385.94	3.99
26-Nov-24	1.20	34.38	833.28	23872.78	3.49
27-Nov-24	1.60	36.74	1111.04	25513.64	4.35
28-Nov-24	1.20	32.54	833.28	22593.00	3.69
29-Nov-24	1.20	33.12	833.28	22999.92	3.62
30-Nov-24	1.20	33.35	833.28	23157.55	3.60
Average	1.30	34.36	905.03	23860.02	3.80