PENNSLYVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT

2024 ANNUAL REPORT
EPA-NPDES PERMIT # PA0027421

PREPARED FOR:

NORRISTOWN MUNICIPAL WASTE AUTHORITY
MONTGOMERY COUNTY, PA

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NORRISTOWN MUNICIPAL WASTE AUTHORITY

2024 ANNUAL REPORT

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1 INTRODUCTION

This report is submitted as the 2024 Municipal Waste Load Management Annual Report (Chapter 94 Report) for the sanitary sewage collection and treatment facilities owned and operated by the Norristown Municipal Waste Authority (NMWA), as well as the associated tributary municipalities. The sewer service area for these facilities includes all of the Municipality of Norristown, most of West Norriton Township (WNT), and a small portion (10 EDUs) of Plymouth Township along Fairfield Road. The NMWA owns and maintains the sanitary sewer collection piping within the Municipality of Norristown and operates the Norristown Sewage Treatment Plant (STP) located at 368 East Washington Street. WNT owns and maintains the sewage collection piping within West Norriton Township, as well as an 18-inch diameter force main connecting its Rittenhouse Pump Station with the Norristown STP.

NMWA's collection and conveyance system consists of either brick or concrete manhole structures and approximately 65 miles of concrete, vitrified clay and PVC pipe ranging in size from eight (8) to 10 (10) inches in diameter. Some portions of the collection system are in excess of 100 years old with certain section dating back to the early 1900's.

The Norristown STP was originally constructed in 1932 and over the years has been expanded and updated many times as demand and the need for improved treatment increased. The original plant provided basic separation as treatment. In 1950 the plant saw a major upgrade and overhaul, as the original 1932 plant was converted to pre-aeration tanks and primary clarifiers. The addition of four aeration tanks and clarifiers, chlorine contact tanks with disinfection equipment and anaerobic digesters now provided the means of treatment. In 1968 three aeration tanks, two clarifiers, and one chlorine contact tank were added to provide additional capacity to the plant. In 1985 a circular primary clarifier was added to the process providing additional primary treatment, and in 2013 two post aeration tanks were added to better control the dissolved oxygen levels in the effluent prior to discharge to the Schuylkill River. In its current configuration the STP provides conventional activated sludge treatment with both primary and secondary treatment of sanitary sewage. The existing sludge processing system at the treatment facility consists of an anaerobic digestion system and a belt filter press for dewatering. Dewatered biosolids from the belt filter press are ultimately disposed of at a landfill. The Authority operates under NPDES permit No. PA0027421 which was issued effective 6/1/2024 and expires 5/31/2029.

2 HYDRAULIC AND ORGANIC LOADINGS

The STP has a permitted average organic loading of 34,540 pounds per day (lbs/day) of five-day biochemical oxygen demand (BOD_5), and a permitted hydraulic capacity of 9.75 million gallons

per day (MGD) of flow. In accordance with a 1985 Intermunicipal Agreement between the Municipality of Norristown and the WNT Municipal Authority, WNT provides funds to cover 36% of the operating expenses of the STP to offset the costs of treatment of their flow for NMWA.

2.1 Hydraulic Loading

Total influent flows to the Norristown Sewage Treatment Plant consist of gravity flows from Norristown and WNT, as well as discharges from the force main from WNT's Rittenhouse Pump Station. In the past, the NMWA has reported effluent flow meter data for its annual Chapter 94 reporting because direct metering of total influent flows was not possible due to their combination with recycle streams from within the treatment plant. The recycle streams captured in the influent flow metering include skimmings from the primary and secondary clarifiers, filtrate from the sludge filter press, decant from the sludge digesters, and returned flows of wastewater temporarily stored within the plant for flow equalization purposes during high flow events.

In November 2011, the NMWA issued an addendum to its 2010 Chapter 94 Report that analyzed the potential impact of these recycled flows on the metered influent flow. The results of the analysis showed that for the period evaluated, the estimated monthly average recycle flows varied between 0.268 MGD and 0.512 MGD, or between 2.91% and 7.74% of the metered influent flows. In the addendum, the NMWA proposed that for future reports, it would report adjusted monthly average influent flows, calculated by subtracting the estimated recycle flows from the metered influent flows. This approach was used previously for the 2011 through 2023 reports and has been used again for reporting the 2024 flows. In 2024, the monthly estimated recycle flows varied between 0.08 MGD and 0.23 MGD, with an average of 0.12 MGD. Details of these monthly estimated recycle flows for 2024 are included as Appendix A of this report.

Table 1 shows the historical hydraulic loading data, along with monthly precipitation data for 2024. The annual average adjusted influent flow to the Norristown STP in 2024 was 6.47 MGD, which is about 66% of the plant's design capacity flow of 9.75 MGD. The highest monthly average flow was 9.69 MGD in January 2024 and the three-month maximum average flow in 2024 was 9.31 MGD for January, March, and April. Total rainfall for 2024 was 39.75 inches. The average flow is about equal to the 5-year average flow of 3.31 MGD. The average hydraulic ratio (3-Month Max: Annual Average) for the past five years is 1.18. The monthly average flows from WNT, through both the Jackson Street Interceptor and the force main from the Rittenhouse Pump Station, are provided in Table 2. In 2024, 45.8% of the total influent flows to the plant were from WNT.

Table 1 illustrates the historic monthly average flows for the years 2020 through 2024. In 2024, all recorded monthly average flows were below the plant's permitted capacity of 9.75 MGD. Although these measures indicate that there is no hydraulic overload at the Norristown STP, it is known that the instantaneous peak flow to the STP during wet weather events often exceeds the plant's hydraulic capacity due to infiltration and inflow in the collection and conveyance system. Instantaneous influent flows in excess of 20 MGD are known to occur on occasions. During such events, the NMWA implements its High Flow Maintenance Plan (HFMP). The HFMP includes

various measures to reduce the impacts of wet weather flows, including temporary storage of excess flows within unused tanks at the STP.

Table 1

Norristown STP
Hydraulic Loading Historical Data (MGD)
2020-2024

HYDRAULIC LOADING (MGD)						
						Rainfall (in.)
Month	2020	2021	2022	2023	2024	2024
January	5.72	6.38	3.71	6.74	9.69	7.41
February	6.14	7.27	5.20	6.09	6.48	0.31
March	5.90	8.54	4.84	4.70	9.07	7.12
April	6.67	5.72	7.51	5.05	9.16	5.11
May	5.99	5.33	6.54	5.44	6.16	3.39
June	5.13	5.54	4.64	4.88	5.60	2.79
July	5.59	5.36	4.54	5.90	5.35	2.71
August	6.49	5.51	4.33	4.99	5.80	3.98
September	4.70	5.65	5.02	5.10	5.04	1.19
October	4.83	5.51	5.61	5.02	5.27	0.00
November	5.34	4.95	4.87	5.32	4.63	2.36
December	7.77	4.26	5.49	8.36	5.41	3.38
Annual Average (AA)	5.86	5.83	5.19	5.63	6.47	3.31
3 Month Max. Average	6.24	7.18	6.30	6.23	9.31	
Ratio (3 Month Max. to AA Ratio)	1.07	1.23	1.21	1.11	1.44	
5 - Year Average Hydraulic Ratio =	1.18					

Total Rainfall (inches) = 39.75

Note: Shaded cells reflect the periods used to calculate the yearly 3-Month Max Average.
Note: Flows reported for Table 1 are adjusted influent flows. These adjusted influent flows were calculated by subtracting monthly estimated recycle flows from the metered monthly average influent flows.
Note: Due to Hurricane Ida, the flowmeters at the Norristown STP were inoperable. Annual Flow was substituted for September 2021 Monthly Average.

Table 2

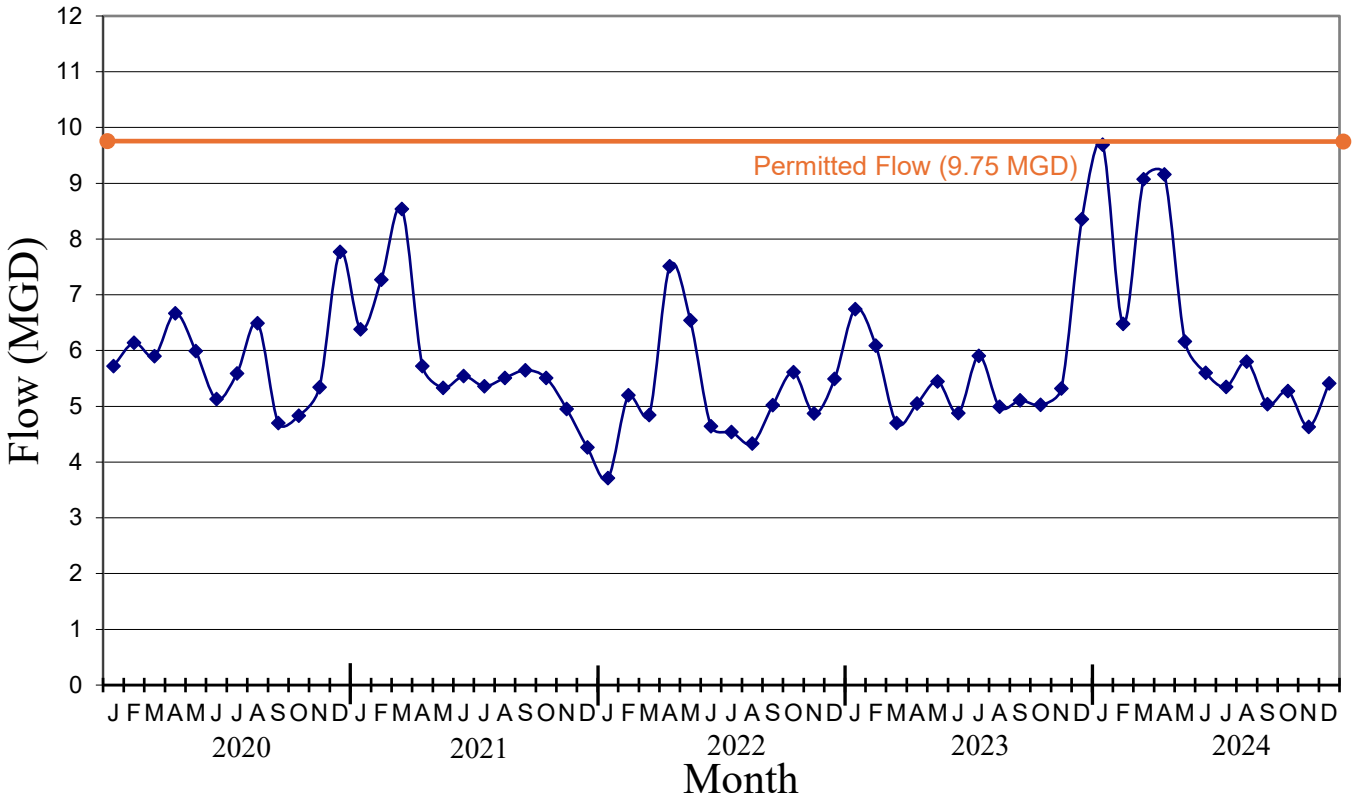
WNT 2024 Flow to Norristown STP

Month	Rittenhouse Pump Station (GPD)	Jackson Street (GPD)	Total Flow To Norristown (GPD)
January	3,760,878	160,710	3,921,588
February	2,718,790	394,828	3,113,618
March	3,404,195	218,129	3,622,324
April	3,305,018	147,333	3,452,351
May	2,281,918	143,516	2,425,434
June	1,813,460	188,733	2,002,193
July	1,754,267	206,516	1,960,783
August	1,909,697	210,484	2,120,181
September	1,639,127	183,233	1,822,360
October	1,536,539	211,806	1,748,345
November	1,139,650	347,267	1,486,917
December	1,849,081	149,744	1,998,855
Average Total Flow (GPD)	27,112,620	2,562,329	29,674,949
Average Daily Flow (GPD)	2,259,385	213,527	2,472,912

*Information Provided by WNT Engineer of Record

Figure 1

Historical Monthly Average Flows



The CSO-3 was located on East Washington Street immediately west of the treatment plant property line. This outfall discharged directly to Saw Mill Run, which is tributary to the Schuylkill River. The CSO was eliminated in December of 2022 as per the NPDES requirements.

2.2 Organic Loadings

Sampling of influent BOD_5 to the Norristown STP is conducted weekly. The Norristown STP does not accept hauled-in septage. Time proportioned 24-hour composite samples are collected with an automated sampler from the headworks screening chamber at the plant, prior to any treatment processes. These samples are representative of the sewage generated within Norristown and the tributary flows from WNT entering through the Jackson Street Interceptor, but do not include the flows discharged to the plant through the force main from WNT's Rittenhouse Pump Station. The only location at the STP where a single representative organic sample of all influent flow can be collected is in the same location as the "influent" flow meter near the grit removal unit.

In July 2011, the NMWA began taking BOD_5 samples from within the grit removal unit to evaluate whether this location could be used as a more representative sampling location; however, the results indicated that the BOD_5 results of these samples were consistently lower than those collected in the headworks screening chamber. Consequently, in the addendum to the 2010 Chapter 94 Report the NMWA proposed to continue using the samples collected from the screening chamber as the basis for calculating the organic loadings to the treatment plant. This approach was used again in 2024.

The 2024 organic sampling and loading calculations are shown in Table 3. The average BOD_5 concentration of the samples was 273 mg/L. The average organic loading in 2024 was 14,113 lbs/day and the highest monthly average loading was 17,864 lbs/day in January 2024. All the monthly average organic loadings were well below the plant's permitting loading.

Table 4 contains historical organic loading data for 2020 through 2024. These same data are illustrated in Figure 2. During this five-year period, the monthly average organic loadings have never exceeded the plant's design organic loading capacity. The monthly averages have ranged from a minimum of 2,883 lbs/day in September 2021 to a maximum of 21,125 lbs/day in February 2021. Based on the annual average and maximum monthly loadings at the STP over the last five years, an average organic loading ratio, or "peaking factor," was calculated as 1.45
.

Table 3

2024 Organic Loading Summary

Date of Sample	BOD5 (MG/L) A	INFLUENT FLOW (MGD) B	DAILY BOD LOAD (LBS/DAY) A x B x 8.34	Monthly Average (lbs/day)
5-Jan	371	7.82	24,196	17,864
12-Jan	104	12.79	11,094	
19-Jan	311	8.44	21,891	
26-Jan	175	9.78	14,274	
2-Feb	205	8.31	14,208	16,368
9-Feb	315	7.37	19,362	
16-Feb	256	7.94	16,952	
23-Feb	264	6.79	14,950	
1-Mar	296	6.42	15,849	15,479
8-Mar	210	8.82	15,447	
15-Mar	274	8.43	19,264	
22-Mar	283	4.76	11,235	
31-Mar	242	7.73	15,601	
5-Apr	112	18.25	17,047	15,479
11-Apr	303	8.63	21,808	
19-Apr	213	7.90	14,034	
26-Apr	240	6.26	12,530	
3-May	310	5.79	14,969	17,269
10-May	332	6.38	17,665	
17-May	330	6.37	17,532	
24-May	282	8.04	18,909	
7-Jun	168	5.10	7,146	11,088
12-Jun	277	5.80	13,399	
20-Jun	265	5.71	12,620	
28-Jun	227	5.91	11,189	
3-Jul	245	5.20	10,625	11,391
12-Jul	252	5.37	11,286	
19-Jul	201	5.80	9,723	
26-Jul	288	5.80	13,931	
2-Aug	239	5.28	10,524	12,878
9-Aug	201	8.17	13,696	
15-Aug	320	6.30	16,813	
23-Aug	281	5.30	12,421	
6-Sep	260	5.80	12,577	11,959
13-Sep	306	4.56	11,637	
20-Sep	235	5.01	9,819	
27-Sep	302	5.48	13,802	
4-Oct	305	5.79	14,728	13,299
10-Oct	290	5.10	12,335	

18-Oct	311	5.14	13,332	
25-Oct	301	5.10	12,803	
1-Nov	277	4.26	9,841	11,494
8-Nov	321	4.29	11,485	
15-Nov	313	3.99	10,416	
22-Nov	334	5.11	14,234	
6-Dec	387	4.08	13,169	14,789
13-Dec	375	5.83	18,233	
20-Dec	262	5.56	12,149	
27-Dec	413	4.53	15,603	
AVE.	**273**		**AVE.**	**14,113**

Note: Influent flow is based on metered data.

Table 4

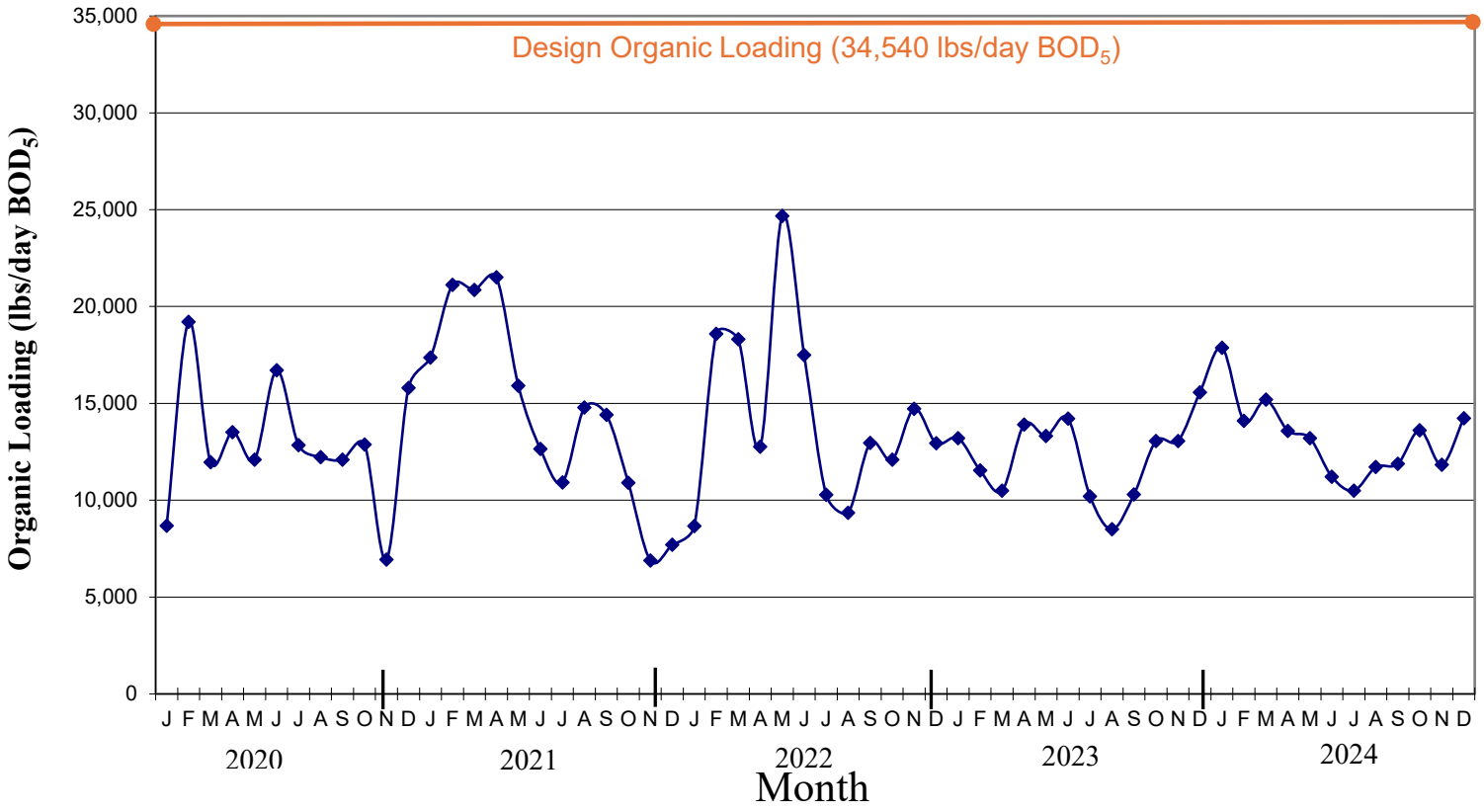
Organic Loading Historical Data 2020-2024

2020-2024 ORGANIC LOADING DATA (LBS/DAY)					
Month	**2020**	**2021**	**2022**	**2023**	**2024**
January	8,689	17,366	8,672	13,208	17,876
February	19,212	21,125	18,593	11,543	14,108
March	11,962	20,853	18,308	10,493	15,187
April	13,518	21,503	12,761	13,901	13,583
May	12,099	15,904	24,682	13,313	13,208
June	16,712	12,643	17,487	14,215	11,209
July	12,846	10,921	10,279	10,202	10,498
August	12,230	14,778	9,357	8,500	11,711
September	12,091	14,414	12,950	10,293	11,877
October	12,883	10,899	12,094	13,059	13,616
November	6,941	6,893	14,722	13,061	11,832
December	15,801	7,702	12,947	15,568	14,224
Annual Avg. (AA)	12,915	14,583	14,404	12,280	13,244
Monthly Max.	19,212	21,503	24,682	15,568	17,876
Ratio (Max. to AA)	1.49	1.47	1.71	1.38	1.35
Average 5-yr Ratio	1.45				

Note: Shaded values are the maximum monthly average for the corresponding year.

Figure 2

Historical Monthly Average Organic Loading



3 FIVE-YEAR HYDRAULIC AND ORGANIC LOADING PROJECTIONS

3.1 Hydraulic Loading Projections

The five-year hydraulic loading projections have been calculated using an adjusted annual average flow. This approach adjusts the annual average flows for the previous five years to account for the EDUs of new connections added in each year. Table 5 summarizes the additional EDUs and resulting flow added in years 2020 through 2024, which then becomes the basis for the adjusted annual flow calculations shown in Table 6. Based on these calculations, the adjusted annual average flow for Norristown STP is 5.701 MGD.

The five-year adjusted annual flow of 5.701 MGD becomes the starting point for projecting the future hydraulic loadings for the years 2025 through 2029. In Table 7, the estimated number of new EDUs to be added in each of the next five years has been used to calculate the annual increased flow and ultimately the total projected flow for each year. The five-year average hydraulic ratio of 1.18 was then multiplied by the projected annual average to calculate the projected three-month maximum flows. Based on the projected hydraulic loadings in Table 7, there are no hydraulic overloads projected for the Norristown STP. Figure 3 illustrates the historical and projected annual average flows and three-month maximum flows through 2029.

3.2 Organic Loading Projections

Based on the BOD_5 sample results presented in Table 3, the average influent BOD_5 concentration in 2024 was 273 mg/L. If this average organic concentration will remain relatively steady over the next five years, the projected organic loadings for years 2025 through 2029 have been calculated by multiplying this average influent BOD_5 concentration by the projected increased flows (based on new EDUs) for each year. Maximum monthly organic loading projections are then calculated by multiplying the annual average loading projections by the five-year organic ratio of 1.45 as calculated in Table 4. Based on the results, there is no projected organic overload at Norristown STP during the next five years.

Table 5

Basis for Five-Year Adjusted Annual Flow

Year	# of EDUs Connected	gpd/EDU	Additional Flow (MGD)
2020	69	275	0.019
2021	92	275	0.025
2022	0	275	0
2023	124	275	0
2024	90	275	0.025

*For sewer planning purposes NMWA uses 275 GPD/EDU

Table 6

Adjusted Annual Average Flow Calculation

Year	Avg. Annual Flow (MGD)	Additional Flow Based on Completed Connections (MGD)					Adjusted Avg Annual Flow (MGD)
		2020	2021	2022	2023	2024	
2020	5.86		0.025	0	0.034	0.025	5.944
2021	5.83			0	0.034	0.025	5.889
2022	5.19				0.034	0.025	5.249
2023	5.63					0.025	5.655
2024	5.77						5.770
Total	**28.28**					**Total**	**28.51**
5-Yr. Avg.	**5.628**				**5-Yr. Adjusted Avg.**		**5.701**

Table 7

5-Year Adjusted Hydraulic Loading Projections				
Year	**Previous Year's Annual Avg. Flow (MGD)**	**Increased Flow (MGD)**	**Projected Annual Avg. Flow (MGD)**	**Projected Max. Month Flow (MGD)**
2025	5.775	0.058	5.833	6.825
2026	5.833	0.055	5.888	6.889
2027	5.888	0.004	5.892	6.894
2028	5.892	0.006	5.898	6.901
2029	5.898	0.006	5.904	6.908

Figure 3

Historical and Projected Hydraulic Loading at the Sewage Treatment Plant

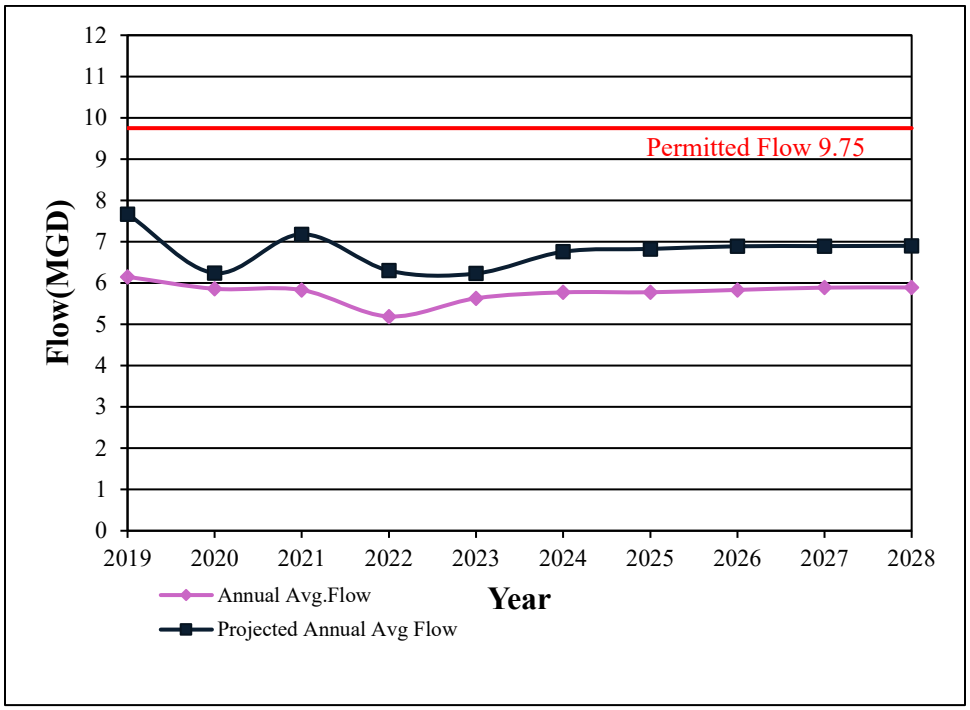
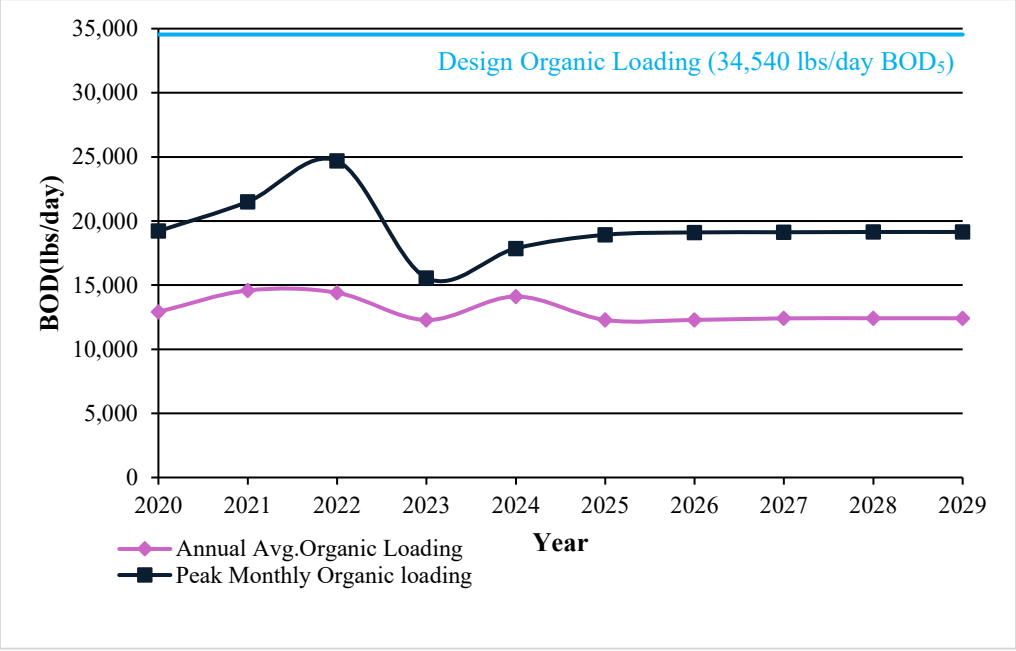


Table 8

5-Year Organic Loading Projections					
Year	**Previous Year's Annual Avg. Organic Load (lbs/day)**	**Increased Flow (MGD)**	**Increased Organic Load (lbs/day)**	**Projected Annual Avg. BOD_5 Loading (lbs/day)**	**Projected Max. Monthly BOD_5 Loading (lbs/day)**
2025	12,284	0.002	4	12,288	18,924
2026	12,288	0.055	121	12,409	19,110
2027	12,409	0.004	9	12,418	19,124
2028	12,418	0.006	13	12,431	19,144
2029	12,418	0.006	13	12,431	19,144

Figure 4
Historical and Projected Hydraulic Organic Loading at the Sewage Treatment Plant



4 SEWER EXTENSIONS

Within the NMWA sewer service area, the collection and conveyance piping are essentially "built-out." Consequently, extensions of the existing system are typically not required, except in rare occasions to accommodate land development projects. Normally, "extensions" are limited to new private lateral connection to existing mains; there were no extensions in 2024. There were 92 new sewer connections in 2024, 90 in Norristown for the Kennedy Kendrick Apartment Complex and two (2) in WNT: 81 W. Indian Lane with one (1) EDU of flow and 69 W. Indian Lane with one (1) EDU of flow.

NMWA continues to monitor proposed land development projects in the Municipality and in the tributary portions of WNT that could potentially increase the sewage flows in the next five years. The estimated EDUs and flow which for all of these proposed projects are listed in Table 9, along with the projected year(s) during which they are expected to begin contributing sewage flows. These are the same flows that were used in Section 3 of this report to generate the five-year hydraulic and organic loading projections. The projects within the Municipality, along with the planning approvals/exemptions and connections made in 2024, are identified on the NMWA Sewer Service Area Map provided as Appendix B to this report. Projects within WNT are identified within the WNT 2024 Chapter 94 Report, provided as Appendix F to this report.

Table 9

Five-Year Projected Connections

Development	No. of EDUs	Total Flow (GPD)	5-Year Projected Connections: Connected in 2024 (GPD)	2025 Flow (GPD)	2026 Flow (GPD)	2027 Flow (GPD)	2028 Flow (GPD)	2029 Flow (GPD)
A. NORRISTOWN MUNICIPALITY								
26-36 West Wood	5	1,375	0	1,375	0	0	0	0
820 Thomas Street	8	2,200	0	2,200	0	0	0	0
257 E Main Street	26	7,150	0	5,775	0	0	0	0
1421 Green Valley Road	26	7,150	0	7,150	0	0	0	0
1011 New Hope Street	36	9,900	0	0	9,900	0	0	0
1800 Chain St.	3	825	0	0	0	825	0	0
220 W. Main St.	1	275	0	0	0	275	0	0
100-104 E. Jacoby Street	9	2,475	0	0	2,475	0	0	0
1651 Markley Street	18	4,950	0	0	4,950	0	0	0
250 E Johnson (Kennedy Kendrick)	235	64,625	24,750	0	39,875	0	0	0
600 E Fornance	25	6,875	0	0	6,875	0	0	0
Sub-Totals	**392**	**107,800**	**24,750**	**16,500**	**64,075**	**1,100**	**0**	**0**
B. WEST NORRITON TOWNSHIP								
Norristown School District	10	2,850	0	0	0	0	2,850	0
Apartments at Schuylkill & Main Street	22	6,270	0	0	2,850	3,420	0	0
81 W. Indian Lane	1	285	285	0	0	0	0	0
2580 Industry Lane	1	285	0	285	0	0	0	0
69 Indian Lane	1	285	285	0	0	0	0	0
2505 Blvd of Generals	15	4,275	0	15	4,275	0	0	0
Office Building at 239 Egypt Road	11	3,135	0	0	0	0	3,135	0
TLC Headquarters/Carwash	24	6,840	0	0	0	6,270	0	570
1400 Buchannan Avenue	1	285	0	285	0	0	0	0
730 Forrest Avenue	4	1,140	0	1,140	0	0	0	0
Fill in Lots and OLDs	5	1,425	0	285	285	285	285	285
Sub-Totals	**93**	**26,505**	**570**	**6,270**	**3,135**	**9,975**	**6,270**	**855**
TOTALS	**485**	**134,305**	**25,320**	**22,770**	**67,210**	**11,075**	**6,270**	**855**

Note: Information regarding WNT projected connections was provided by WNT Engineer.

5 PROGRAM FOR SANITARY SEWER MONITORING, MAINTENANCE, AND REPAIR

NMWA treatment plant and collection system operators are responsible for preventative maintenance at the STP and in the collection system. Collection system operators routinely inspect the collection system for any signs of damage or blockages and any identified problem areas within the system receive immediate corrective attention. In an effort to assess the overall condition of the collection system, the NMWA continues to monitor and evaluate problematic areas via closed circuit television (CCTV) inspections.

In 2016, Digester No. 1 was cleaned in order to enable the replacement of the mixing system as well as various repairs in the digester; the mixing system replacement and digester repairs were completed in 2018.

A treatment plant upgrade project was constructed in 2023. The project included:

- Selective demolition of the existing influent pump station, maintenance building, chlorine disinfection building, aeration equipment, dewatering equipment, and building,
- Replacement of existing influent pumps, piping, and controls,
- Replacement of existing aeration equipment and blowers,
- Construction of a new blower building,
- Construction of a new chlorine disinfection and electrical building,
- Installation of Owner supplied dewatering equipment,
- General improvements to the Dewatering and Administration buildings,
- and the addition of a Supervisory Control and Data Acquisition System (SCADA).

Repairs to the collection system over the past several years have included complete excavation and replacement of sewer mains and associated manholes, sport excavation and replacement of specific section of sewer mains, installation of cure-in-place pipe (CIPP) liners, and lining of manholes to reduce inflow and infiltration into the collection system. All of this work has been the result of collection system monitoring, including flow monitoring and CCTV inspections.

Routine maintenance by the NMWA includes periodic inspection of sanitary collection lines throughout the Municipality. During these inspections, any required maintenance is performed; this includes line flushing, sewer jetting, and debris removal. In 2024, NMWA collection system staff flushed and cleaned 434,720 linear feet of sanitary sewer mains, an average of 36,227 linear feet per month. Table 10 summarizes the routine maintenance performed by month in 2024.

In addition to the routine maintenance described above, the NMWA responds to all emergency calls associated with sewage backups. The NMWA collection system staff received an average of 7.4 sewer blockage reports per month in 2024, or 89 for the entire year. Most of these reported blockages turned out to be problems with privately-owned sewer service laterals. In 2024, nineteen and one tenth (19.10), or roughly 19%, of the reported blockages were actually in sewer mains owned by the NMWA. These blockages were primarily the result of debris, grease, and roots. The 2024 blockage information by month is also provided in Table 10.

Table 10

2024 NMWA Collection System Maintenance Summary					
Month	**Pipe Cleaned (linear feet**	**Root Cutting (linear feet)**	**Total Reported Blockages**	**NMWA Blockages Cleared**	**NMWA Blockages (%)**
January	23,150	0	15	3	20.00%
February	28,550	0	8	0	0.00%
March	34,725	0	9	1	11.11%
April	38,825	0	12	3	25.00%
May	50,375	0	8	2	25.00%
June	39,375	0	3	1	33.33%
July	39,720	0	1	0	0.00%
August	23,350	0	2	1	50.00%
September	45,425	0	4	1	25.00%
October	49,575	0	9	0	0.00%
November	36,750	0	3	1	33.33%
December	24,900	0	15	4	26.67%
Total	434,720	0	89	17	19.10%
Average	36,227	0	7.4	1.4	

6 CONDITION OF THE SEWER SYSTEM

NMWA's collection system contains approximately 65 miles of sewer pipe that is primarily concrete or vitrified clay, with replacements occurring with PVC pipe. Some areas of the collection system may be in excess of 100-year-old with specific sections dating back to the early 1900's. The NMWA sanitary collection system is in fair to poor condition depending on location within the Municipality. Previous metering within the collection system and flow data analyses indicate that the collection system experiences significant Infiltration and Inflow (I/I) during wet weather events. The I/I seems to be a considerable problem within Norristown and in the tributary portions of WNT.

The most vulnerable portion of the collection system has been the Jackson Street Interceptor in the vicinity of Crawford Park. Sanitary Sewer Overflows (SSOs) have occurred in Crawford Park during excessive rain events on numerous occasions in the past. The Jackson Street Interceptor is a 15-inch diameter pipe that conveys sanitary sewage collected in the southwest section of Norristown and all gravity flow from WNT. In order to alleviate potential overflow problems, the Department issued a moratorium on new connections within the Jackson Street "sewershed" in March of 2007. This effectively prohibits any connections to public sewers in the Municipality of Norristown and West Norriton Township that are tributary to the Crawford Park/Jackson Street Interceptor. In November 2010, NMWA submitted a Corrective Action Plan and Connection Management Plan (CAP/CMP) to the Department to address the hydraulic overload in Crawford Park. This CAP/CMP is discussed further in Section 8 of this report. As a result of the CAP/CMP, SSOs that have occurred in the past in Crawford Park during excessive rains have virtually been eliminated.

In an effort to minimize the amount of Inflow and Infiltration entering the collection system, the NMWA executed a Consent Order and Agreement (CO&A) with the Department in March of 2003. This CO&A established milestones designed to reduce or eliminate the amount of I/I that enters the collections and conveyance system by implementing various action items, such as metering, monitoring, and analysis of the collection system, to determine how the system is impacted by the effects of Inflow and Infiltration during rain events. In August of 2008, the NMWA executed an amendment to the CO&A which impacted operations of the NMWA through February of 2019. The NMWA has satisfied all of the requirements of the CO&A, which was lifted in 2019.

7 INDUSTRIAL WASTES

Industrial Waste in Norristown in addressed in Article I – *Industrial Harmful and Prohibited Wastes* in the Norristown Municipal Waste Authority's Rates, Rules & Regulations (August 1, 2012. A copy of this section is attached as Appendix C of this report. The NMWA implements a municipal Industrial Pretreatment Program (IPP) to manage the industrial wastes generated within the sewer service area and discharged to the Norristown STP. During 2024, there were three (3) Industrial Users (IU) permitted to discharge sanitary wastewater to the NMWA collection system:

1. Pennsylvania American Water Company (Significant Non-Categorical Industrial User)
   300 West Washington Street
   Norristown, PA 19401

2. Von C Brewing Company (Significant Non-Categorical Industrial User)
   1210 Stanbridge St. Suite 300
   Norristown, PA 19401

3. Busch Vacuum Solutions (Significant Non-Categorical Industrial User)
   2450 Boulevard OF the Generals
   Norristown, PA 19403

The above IUs were inspected during 2024 and effluent samples were collected for laboratory analyses. Based on the analysis of the samples collected, one (1) notice-of-violation (NOV) was issued to both Von C Brewing Company (Von C) and Busch Vacuum Solutions (Busch LLC). A NOV was issued to Von C on March 15th, 2024, due to the Quarter 1 sampling result for BOD_5 exceeding the permitted discharge concentration.

A NOV was issued to Busch LLC on June 11th, 2024. This notice was for failure to submit the Quarter 1 monitoring report and its associated sampling data. Due to unresponsiveness, the Authority conducted an onsite inspection on August 20th, 2024. Modifications to the facility indicated that sewer waste is no longer discharged to the Authority's sewer system, indicating an IWD Permit with the Authority is not necessary. The Authority is still in the process of properly terminating the IWD Permit with Bush LLC.

A pervious Significant Non-Categorical Industrial User, Anderson Prints, closed operations on February 28, 2020 and ceased discharges to the Norristown STP. This facility was not inspected and samples were not collected since the IU was no longer generating industrial wastes.

8 CORRECTIVE ACTION PLAN/CONNECTIONS MANAGEMENT PLAN

In November of 2020, NMWA submitted a Corrective Action Plan and Connection Management Plan to the Department that addressed the details of the overload condition in Crawford Park and identified action items to further reduce the risk of SSOs in this portion of the collection system. This CAP/CMP also included NMWA's prohibition on new sanitary sewer collections in the Rittenhouse Pumping Station sewer shed due to flow metering data that demonstrated that this pumping station frequently operates in excess of its permitted capacity. A copy of this CAP/CMP was included as an Appendix to NMWA's 2010 Chapter 94 Report. On April 18, 2011, the Department issued a letter to the NMWA with its comments as an appendix to NM'A's 2011 Chapter 94 Report.

The CAP/CMP formalized a Standard Operating Procedure (SOP) to be implemented by WNT for diverting excessive wet weather flows from the Jackson Street Interceptor to the Rittenhouse Pumping Station. In 2012, WNT lowered the division gate to a fixed position that was deemed adequate by WNT's Engineer to prevent excessive flows to Norristown through the Jackson Street Interceptor. This repositioning of the diversion gate appears to have been effective in limiting the WNT flows in the interceptor. In 2012, WNT reported an average daily flow to Norristown through the Jackson Street Interceptor of 373,749 GPD, which was a 60% reduction from the 939,339 GPD average flow reported for 2011. In 2024, WNT's average discharges were 213,527 GPD, which was about a 18% increase from the 181,628 GPD average flow reported for 2023.

Based on the demonstrated long term reduction in the flow through the Jackson Street Interceptor resulting from the WNT's implementation of the SOP for flow diversion, along with the support expressed by the Department of Environmental Protection (DEP) at a meeting held on June 25, 2013, the NMWA issued a letter to WNT on July 3, 2013 approving the connection of 120 EDUs over the next four (4) years contingent on the following:

- WNT will continue to complete the planned projects to further reduce I/I in its collection system and provide NMWA with periodic updates of its Corrective Action Plan with a summary of the work completed.
- WNT will continue to provide NMWA with copies of its collection system and pumping station flow metering results.
- WNT will maintain the current level of the gate valve at the Jackson Street Diversion Chamber and will not reduce the amount of flow diverted to the Rittenhouse Pumping Station without first consulting with the NMWA.
- WNT will inform the NMWA in advance of any approved EDU being connected to its sanitary sewer system.

Although the approval period ended in 2017, WNT still has approved connection remaining and will continue to utilize them going forward.

9 CALIBRATION REPORTS

The NMWA contracts annually with W.G. Malden to have all its permanent flow meters calibrated quarterly. The meters calibrated include the STP influent flowmeter, the meter measuring flow from the Rittenhouse Pump Station, and meters measuring flow at each of the outfalls. Copies of the quarterly calibration reports are attached as Appendix E to this report.

10 TRIBUTARY MUNICIPALITY REPORTS

The only tributary municipality required to submit a Chapter 94 report to NMWA is West Norriton Township. WNT's 2024 Report is included as Appendix F to this report.

APPENDIX A

2024 ESTIMATED RECYCLE FLOWS

Month: January
Year: 2024

	Tank Location	Volume Drained	Belt Filter Press Filtrate	Digester Decant Inches	Digester Decant Gallons	Final Clarifier skimming Hrs	Final Clarifier skimming Gallons	Primary Clarifier skimming Hrs	Primary Clarifier skimming Gallons	Total Recycle Flow Gallons
1		0	11,400	24	66,648	1.35	9,749	2.03	15,449	103,247
2		0	18,500	8	22,216	1.53	10,999	2.81	21,356	73,071
3		0	26,300	7	19,439	2.35	16,906	2.61	19,832	82,477
4		0	20,200	0	0	2.96	21,334	3.75	28,515	70,050
5		0	0	18	49,986	3.63	26,125	1.71	13,018	89,129
6		0	0	43	119,411	2.11	15,168	1.61	12,257	146,836
7		0	0	36	99,972	1.79	12,879	1.95	14,808	127,660
8		0	0	2	5,554	3.45	24,872	3.32	25,252	55,679
9	Aeration TK	335,000	0	1	2,777	3.10	22,287	3.26	24,765	384,829
10	Primary CF-5	345,000	0	0	0	3.19	22,934	2.14	16,258	384,191
11		0	0	18	49,986	2.15	15,508	3.03	23,058	88,552
12		0	0	23	63,871	2.96	21,279	1.87	14,249	99,400
13	Aeration TK	670,000	0	41	113,857	2.02	14,556	2.15	16,337	814,750
14	Aeration TK	670,000	0	16	44,432	2.40	17,258	1.98	15,053	746,743
15	Aeration TK	670,000	26,100	2	5,554	1.64	11,783	2.60	19,796	733,233
16	Final CF	158,000	19,800	11	30,547	2.17	15,657	3.17	24,120	248,124
17	Final CF	158,000	19,600	18	49,986	1.99	14,329	3.51	26,697	268,612
18	CCT #3	62,000	20,900	17	47,209	2.25	16,188	1.43	10,894	157,192
19	Primary CF-5	345,000	0	17	47,209	3.48	25,084	2.21	16,818	434,111
20		0	0	7	19,439	2.43	17,499	2.75	20,935	57,872
21		0	0	0	0	2.32	16,695	2.70	20,506	37,201
22		0	17,400	0	0	1.66	11,961	2.92	22,208	51,569
23		0	24,200	2	5,554	3.09	22,240	2.22	16,863	68,857
24		0	23,700	28	77,756	3.61	25,987	3.74	28,440	155,884
25		0	0	4	11,108	1.73	12,451	3.20	24,291	47,850
26		0	0	12	33,324	3.66	26,334	2.53	19,250	78,908

27		0	22,100	4	11,108	2.98	21,479	2.59	19,647	74,334
28		0		2	5,554	1.81	13,041	2.70	20,532	39,127
29	Aeration TK	670,000	24,300	2	5,554	1.78	12,835	3.40	25,878	738,567
30	Final CF	158,000	25,000	50	138,850	3.87	27,885	2.88	21,860	371,595
31		0	29,800	28	77,756	1.78	12,812	2.52	19,151	139,519
Total										6,969,167

Month: February
Year: 2024

	Tank Location	Volume Drained	Belt Filter Press Filtrate	Digester Decant Inches	Digester Decant Gallons	Final Clarifier skimming Hrs	Final Clarifier skimming Gallons	Primary Clarifier skimming Hrs	Primary Clarifier skimming Gallons	Total Recycle Flow Gallons
1		0	26,100	2	5,554	1.41	10,132	3.29	24,997	66,784
2		0	0	0	0	2.94	21,174	3.84	29,201	50,376
3		0	0	0	0	3.03	21,803	1.30	9,878	31,681
4		0	22,700	0	0	2.69	19,363	1.81	13,739	55,801
5		62,000	0	9	24,993	1.50	10,806	3.76	28,587	126,387
6		0	30,100	41	113,857	3.82	27,504	3.40	25,839	197,301
7		0	27,400	24	66,648	3.39	24,380	2.87	21,837	140,265
8		158,000	26,300	0	0	2.71	19,537	3.68	27,994	231,831
9		0	0	24	66,648	3.84	27,634	3.46	26,312	120,593
10		0	0	16	44,432	2.62	18,871	1.87	14,185	77,488
11		158,000	25,800	0	0	1.61	11,627	2.22	16,884	212,310
12		0	27,500	0	0	3.36	24,225	1.99	15,154	66,880
13		0	0	8	22,216	3.67	26,411	1.84	14,015	62,643
14		0	22,300	24	66,648	1.75	12,633	1.89	14,361	115,942
15		0	26,800	6	16,662	3.18	22,894	3.01	22,852	89,209
16		0	26,900	0	0	2.53	18,192	2.38	18,085	63,177
17		0	0	8	22,216	3.43	24,708	2.68	20,351	67,275
18		0	28,100	8	22,216	3.63	26,114	2.25	17,108	93,538
19		0	29,500	12	33,324	2.75	19,821	1.61	12,232	94,877
20		0	27,700	23	63,871	1.43	10,300	3.88	29,475	131,346
21		0	28,500	0	0	2.42	17,426	3.89	29,602	75,528
22		0	24,300	12	33,324	3.04	21,870	2.52	19,186	98,679
23		0	26,500	23	63,871	3.72	26,750	1.97	14,964	132,085
24		0	0	28	77,756	1.68	12,084	1.67	12,721	102,561
25		0	23,400	17	47,209	1.46	10,491	3.02	22,989	104,089
26		0		8	22,216	1.41	10,154	1.50	11,384	43,754

27		0	26,500	0	0	2.04	14,709	2.81	21,394	62,603
28		0	23,400	14	38,878	1.74	12,558	2.33	17,672	92,508
29		0	25,000	7	19,439	1.84	13,248	2.41	18,316	76,003
Total										2,883,513

Month: March
Year: 2024

	Tank Location	Volume Drained	Belt Filter Press Filtrate	Digester Decant Inches	Digester Decant Gallons	Final Clarifier skimming Hrs	Final Clarifier skimming Gallons	Primary Clarifier skimming Hrs	Primary Clarifier skimming Gallons	Total Recycle Flow Gallons
1		0	29,200	37	102,749	3.28	23,637	3.87	29,427	185,013
2		0	0	17	47,209	3.27	23,517	2.78	21,090	91,817
3		0	25,700	0	0	1.27	9,166	3.45	26,222	61,088
4		0	27,900	8	22,216	3.71	26,720	2.16	16,398	93,234
5		0	0	25	69,425	3.89	28,006	2.70	20,492	117,922
6		0	24,100	34	94,418	1.93	13,905	2.51	19,091	151,515
7		0	27,700	5	13,885	3.13	22,516	2.76	20,954	85,055
8	Aeration TK	670,000	25,600	13	36,101	2.55	18,339	2.44	18,535	98,575
9	Aeration TK	670,000	0	22	61,094	3.13	22,555	2.78	21,158	104,807
10	Final CF	158,000	0	0	0	2.95	21,210	1.73	13,127	34,337
11	Final CF	158,000	21,100	0	0	3.25	23,392	2.75	20,902	65,394
12		0	23,900	14	38,878	1.80	12,952	2.54	19,274	95,004
13		0	29,000	19	52,763	2.94	21,139	3.16	24,005	126,907
14		0	29,900	26	72,202	2.53	18,218	3.31	25,178	145,498
15	Aeration TK	502,500	28,500	22	61,094	1.48	10,668	1.24	9,398	109,660
16		0	0	17	47,209	2.12	15,268	2.91	22,095	84,572
17		0	0	0	0	2.99	21,517	2.43	18,452	39,968
18		0	0	22	61,094	2.21	15,876	3.04	23,071	100,041
19		0	30,200	35	97,195	2.58	18,609	2.11	16,068	162,073
20		0	47,300	18	49,986	1.40	10,057	3.23	24,531	131,875
21		0	27,100	9	24,993	3.80	27,386	2.30	17,514	96,993
22		0	29,900	7	19,439	1.23	8,855	3.75	28,500	86,693
23		0	0	0	0	2.30	16,593	3.13	23,815	40,408
24		0	13,300	7	19,439	1.40	10,111	2.42	18,362	61,212
25	Aeration TK	670,000	0	15	41,655	3.25	23,377	3.82	28,998	94,029
26	Aeration TK	670,000	27,500	34	94,418	1.99	14,309	3.00	22,774	159,001

27	Aeration TK	670,000	27,500	1	2,777	2.13	15,354	1.22	9,278	54,909
28	Final CF	158,000	27,500	3	8,331	3.26	23,476	1.72	13,073	72,380
29	Final CF	158,000	21,200	3	8,331	2.12	15,229	1.79	13,585	58,346
30	Primary CF-5	345,000	0	6	16,662	1.68	12,090	2.90	22,004	50,756
31		0	0	4	11,108	2.01	14,442	2.48	18,851	44,401
Total										2,903,485

Month: April
Year: 2024

	Tank Location	Volume Drained	Belt Filter Press Filtrate	Digester Decant Inches	Digester Decant Gallons	Final Clarifier skimming Hrs	Final Clarifier skimming Gallons	Primary Clarifier skimming Hrs	Primary Clarifier skimming Gallons	Total Recycle Flow Gallons
1		0	0	15	41,655	1.72	12,370	3.85	29,281	83,306
2		0	0	32	88,864	3.02	21,713	2.22	16,869	127,446
3		0	0	7	19,439	3.14	22,575	1.24	9,448	51,462
4		0	30,400	2	5,554	2.40	17,314	3.51	26,655	79,923
5		0	25,200	0	0	3.80	27,380	2.34	17,748	70,328
6		0	0	31	86,087	3.43	24,699	3.09	23,514	134,300
7	Aeration TK	670,000	27,900	18	49,986	3.84	27,666	2.56	19,423	794,975
8	Aeration TK	670,000	27,100	0	0	2.78	20,031	3.76	28,566	745,697
9	Final CF	158,000	29,600	11	30,547	2.86	20,619	3.76	28,578	267,344
10	Final CF	158,000	29,000	22	61,094	3.84	27,654	1.37	10,426	286,174
11	Primary CF-5	345,000	23,800	16	44,432	1.65	11,864	2.45	18,633	443,729
12		0	0	11	30,547	1.21	8,721	1.61	12,265	51,534
13		0	0	5	13,885	1.97	14,174	2.94	22,365	50,424
14		0	0	6	16,662	2.52	18,147	1.54	11,729	46,538
15		0	29,000	5	13,885	1.69	12,202	1.33	10,111	65,198
16	Aeration TK	335,000	27,500	6	16,662	3.19	22,986	2.20	16,740	418,888
17		0	19,000	0	0	2.74	19,703	1.49	11,289	49,992
18		0	29,200	14	38,878	2.58	18,590	2.87	21,802	108,471
19		0	17,900	21	58,317	2.25	16,184	2.10	15,935	108,335
20		0	0	42	116,634	3.56	25,659	3.20	24,327	166,620
21		0	0	19	52,763	3.13	22,552	3.35	25,444	100,759
22		0	22,600	22	61,094	3.34	24,015	3.90	29,632	137,341
23		0	24,200	14	38,878	3.24	23,333	2.54	19,276	105,688
24		0	0	0	0	2.34	16,874	3.47	26,407	43,282
25		0	0	0	0	3.43	24,722	2.53	19,221	43,942
26		0	0	13	36,101	1.47	10,610	1.48	11,220	57,931

27		0	0	14	38,878	1.91	13,763	2.10	15,938	68,579
28		0	30,300	3	8,331	2.03	14,596	2.93	22,255	75,482
29		0	25,100	30	83,310	1.65	11,881	2.01	15,264	135,554
30		0	29,100	21	58,317	3.31	23,852	3.33	25,285	136,553
Total										5,055,793

Month: May
Year: 2024

	Tank Location	Volume Drained	Belt Filter Press Filtrate	Digester Decant Inches	Digester Decant Gallons	Final Clarifier skimming Hrs	Final Clarifier skimming Gallons	Primary Clarifier skimming Hrs	Primary Clarifier skimming Gallons	Total Recycle Flow Gallons
1		0	30,400	7	19,439	2.60	18,692	3.75	28,462	96,993
2		0	32,600	0	0	1.78	12,828	2.78	21,099	66,527
3		0	0	0	0	1.51	10,876	2.17	16,459	27,334
4		0	0	21	58,317	3.79	27,304	2.03	15,402	101,023
5		0	0	11	30,547	2.06	14,797	2.42	18,391	63,736
6		0	30,800	34	94,418	1.74	12,517	3.36	25,549	163,283
7		0	32,500	22	61,094	3.00	21,586	2.78	21,119	136,299
8		0	28,200	16	44,432	1.35	9,708	2.09	15,861	98,201
9		0	32,300	0	0	2.04	14,654	1.64	12,473	59,427
10		0	0	0	0	1.68	12,095	3.21	24,384	36,479
11		0	0	0	0	2.52	18,169	3.80	28,849	47,017
12		0	0	19	52,763	1.47	10,593	1.21	9,177	72,533
13	Aeration TK	335,000	28,200	13	36,101	2.56	18,410	2.58	19,607	437,318
14		0	31,500	30	83,310	3.07	22,085	1.48	11,272	148,167
15		0	27,200	3	8,331	3.68	26,462	2.69	20,412	82,405
16		0	29,300	1	2,777	3.64	26,213	3.23	24,562	82,852
17		0	27,900	8	22,216	2.61	18,791	2.55	19,413	88,320
18		0	0	6	16,662	3.56	25,662	1.25	9,470	51,793
19		0	0	35	97,195	2.82	20,305	2.22	16,865	134,365
20		0	28,400	39	108,303	2.64	19,007	3.12	23,690	179,400
21		0	30,700	19	52,763	3.35	24,146	3.60	27,334	134,943
22		0	11,600	3	8,331	2.31	16,662	2.87	21,787	58,380
23		0	31,300	22	61,094	3.22	23,154	3.32	25,238	140,785
24		0	27,200	19	52,763	2.49	17,905	1.78	13,538	111,406
25		0	0	13	36,101	2.59	18,659	2.46	18,672	73,433
26		0	0	22	61,094	2.89	20,787	2.10	15,955	97,836

27		0	26,500	2	5,554	3.40	24,502	2.93	22,304	78,860
28		0	30,500	6	16,662	3.46	24,880	2.87	21,829	93,871
29		0	0	1	2,777	2.52	18,154	1.28	9,744	30,674
30		0	30,900	5	13,885	2.67	19,190	3.15	23,909	87,884
31	Aeration TK	670,000	19,300	0	0	3.10	22,302	2.66	20,238	731,840
Total										3,813,384

Month: June
Year: 2024

	Tank Location	Volume Drained	Belt Filter Press Filtrate	Digester Decant Inches	Digester Decant Gallons	Final Clarifier skimming Hrs	Final Clarifier skimming Gallons	Primary Clarifier skimming Hrs	Primary Clarifier skimming Gallons	Total Recycle Flow Gallons
1		0	5,600	12	33,324	1.73	12,459	3.73	28,332	79,715
2		0	26,300	18	49,986	3.66	26,336	3.71	28,233	130,855
3		0	26,100	22	61,094	1.43	10,263	2.96	22,515	119,972
4		0	24,400	43	119,411	1.49	10,712	3.86	29,327	183,850
5		0	30,300	7	19,439	3.70	26,662	2.75	20,933	97,334
6		0	29,600	6	16,662	3.75	26,976	2.62	19,892	93,130
7		0	29,100	9	24,993	1.53	11,026	1.65	12,508	77,627
8	Aeration TK	335,000	0	0	0	3.43	24,693	2.51	19,052	378,744
9		0	0	13	36,101	1.83	13,186	3.62	27,488	76,775
10		0	28,000	20	55,540	3.04	21,923	3.80	28,905	134,367
11		0	30,500	26	72,202	1.25	9,029	2.75	20,938	132,669
12		0	19,000	22	61,094	3.36	24,159	2.59	19,667	123,921
13		0	31,100	0	0	1.88	13,524	1.55	11,799	56,422
14		0	20,600	0	0	3.43	24,688	3.44	26,157	71,445
15		0	10,300	0	0	1.21	8,720	1.43	10,865	29,885
16		0	0	20	55,540	3.86	27,803	2.32	17,636	100,979
17	Aeration TK	335,000	26,600	18	49,986	1.67	12,002	1.43	10,832	434,420
18		0	30,200	12	33,324	2.58	18,603	3.82	29,025	111,152
19		0	20,000	16	44,432	1.76	12,642	2.90	22,074	99,148
20		0	31,400	21	58,317	1.89	13,583	3.86	29,353	132,653
21		0	0	6	16,662	2.23	16,089	3.04	23,085	55,835
22		0	0	7	19,439	2.62	18,884	2.86	21,710	60,033
23		0	0	0	0	1.77	12,740	3.29	24,986	37,726
24		0	0	0	0	2.64	18,982	1.21	9,223	28,205
25		0	26,000	11	30,547	2.26	16,250	2.91	22,080	94,877
26		0	29,800	13	36,101	2.38	17,159	3.24	24,642	107,702

27		0	30,300	22	61,094	2.94	21,200	1.94	14,771	127,364
28		0	14,500	9	24,993	3.70	26,625	2.58	19,611	85,729
29		0	0	12	33,324	3.89	27,982	1.58	11,994	73,300
30	Aeration TK	670,000	0	36	99,972	1.83	13,201	3.81	28,940	812,113
Total										4,147,947

Month: July
Year: 2024

	Tank Location	Volume Drained	Belt Filter Press Filtrate	Digester Decant Inches	Digester Decant Gallons	Final Clarifier skimming Hrs	Final Clarifier skimming Gallons	Primary Clarifier skimming Hrs	Primary Clarifier skimming Gallons	Total Recycle Flow Gallons
1		0	14,700	9	24,993	1.66	11,981	2.15	16,327	68,001
2		0	28,300	0	0	3.14	22,589	2.24	17,006	67,895
3		0	27,500	0	0	3.38	24,322	2.85	21,690	73,512
4		0	0	0	0	2.01	14,498	3.82	29,023	43,521
5		0	23,100	0	0	3.30	23,762	1.66	12,610	59,472
6		0	0	3	8,331	1.40	10,065	2.92	22,228	40,624
7		0	0	39	108,303	3.45	24,861	2.46	18,664	151,827
8		0	0	10	27,770	1.33	9,602	1.52	11,538	48,910
9		0	28,800	36	99,972	2.50	18,009	2.51	19,048	165,829
10		0	30,600	31	86,087	3.42	24,659	3.69	28,047	169,393
11		0	29,600	0	0	3.01	21,694	2.18	16,535	67,829
12		0	0	0	0	3.67	26,429	3.27	24,843	51,272
13		0	0	0	0	1.26	9,089	3.54	26,927	36,017
14		0	0	3	8,331	2.41	17,337	3.87	29,399	55,067
15		0	0	6	16,662	1.63	11,772	1.38	10,464	38,898
16		0	30,600	32	88,864	3.36	24,185	2.13	16,174	159,823
17		0	27,200	16	44,432	3.03	21,785	3.00	22,808	116,224
18		0	28,900	7	19,439	2.66	19,186	2.46	18,728	86,253
19		0	0	0	0	1.77	12,721	3.30	25,100	37,821
20	Aeration TK	670,000	0	0	0	2.14	15,402	3.26	24,808	710,210
21	Aeration TK	335,000	0	13	36,101	3.33	23,977	2.64	20,049	415,128
22		0	0	6	16,662	2.20	15,874	2.51	19,090	51,626
23		0	30,100	0	0	1.86	13,366	2.51	19,111	62,578
24		0	23,300	13	36,101	3.62	26,094	1.89	14,395	99,890
25		0	27,900	4	11,108	3.11	22,386	1.45	11,028	72,422
26		0	0	15	41,655	2.86	20,567	3.37	25,626	87,848

27		0	0	14	38,878	1.81	13,059	1.62	12,284	64,221
28		0	0	13	36,101	2.46	17,717	3.25	24,685	78,503
29		0	0	10	27,770	2.86	20,570	3.07	23,351	71,691
30		0	29,300	12	33,324	3.27	23,578	2.93	22,300	108,502
31		0	25,100	0	0	3.40	24,462	1.27	9,654	59,217
total										3,420,021

Month: August
Year: 2024

	Tank Location	Volume Drained	Belt Filter Press Filtrate	Digester Decant Inches	Digester Decant Gallons	Final Clarifier skimming Hrs	Final Clarifier skimming Gallons	Primary Clarifier skimming Hrs	Primary Clarifier skimming Gallons	Total Recycle Flow Gallons
1		0	23,400	0	0	1.88	13,570	3.10	23,581	60,550
2		0	0	0	0	3.23	23,250	1.92	14,607	37,857
3		0	0	0	0	1.40	10,052	2.98	22,669	32,721
4		0	0	0	0	1.23	8,830	3.37	25,596	34,426
5		0	0	0	0	3.88	27,945	3.34	25,380	53,325
6		0	27,900	6	16,662	3.56	25,660	3.80	28,853	99,075
7		0	26,200	14	38,878	3.37	24,243	1.92	14,609	103,930
8		0	25,400	18	49,986	2.36	16,994	2.88	21,901	114,280
9		0	0		0	3.12	22,473	1.23	9,353	31,826
10		0	0	12	33,324	1.43	10,326	2.51	19,091	62,742
11		0	0	0	0	1.70	12,242	2.72	20,683	32,925
12	Final CF	158,000	0	22	61,094	3.27	23,541	3.04	23,109	265,744
13	Final CF	158,000	22,100	19	52,763	3.63	26,115	1.43	10,845	269,824
14	Aeration TK	670,000	29,300	23	63,871	2.97	21,350	2.15	16,338	800,859
15		0	25,000	13	36,101	1.45	10,433	2.14	16,276	87,811
16		0	0	14	38,878	1.58	11,355	2.42	18,378	68,611
17		0	0	0	0	1.67	12,055	2.64	20,062	32,117
18		0	0	0	0	3.35	24,140	3.61	27,454	51,594
19		0	0	0	0	2.95	21,258	1.62	12,312	33,570
20		0	26,100	6	16,662	2.00	14,426	3.40	25,826	83,014
21		0	26,800	4	11,108	3.39	24,404	1.65	12,535	74,847
22		0	26,400	7	19,439	3.41	24,583	3.08	23,386	93,809
23		0	0	6	16,662	2.47	17,798	3.28	24,960	59,420
24		0	0	6	16,662	2.93	21,130	1.36	10,350	48,142
25		0	0	8	22,216	2.13	15,359	3.14	23,830	61,405
26		0	0	12	33,324	1.87	13,478	1.21	9,234	56,036

27		0	25,300	28	77,756	3.60	25,910	2.90	22,077	151,042
28		0	25,800	41	113,857	1.21	8,702	2.52	19,118	167,477
29		0	26,000	10	27,770	1.74	12,513	1.27	9,637	75,920
30		0	0	3	8,331	3.32	23,912	1.75	13,308	45,551
31		0	0	9	24,993	1.29	9,298	3.15	23,919	58,210
Total										3,248,660

Month: September
Year: 2024

	Tank Location	Volume Drained	Belt Filter Press Filtrate	Digester Decant Inches	Digester Decant Gallons	Final Clarifier skimming Hrs	Final Clarifier skimming Gallons	Primary Clarifier skimming Hrs	Primary Clarifier skimming Gallons	Total Recycle Flow Gallons
1		0	0	6	16,662	2.96	21,338	2.66	20,213	58,213
2		0	0	8	22,216	1.49	10,741	2.30	17,478	50,435
3		0	24,600	12	33,324	1.48	10,674	1.51	11,480	80,078
4		0	26,900	9	24,993	3.67	26,445	1.58	12,004	90,343
5		0	26,800	6	16,662	2.49	17,894	2.40	18,226	79,582
6		0	0	8	22,216	3.32	23,873	1.59	12,082	58,172
7		0	0	22	61,094	1.42	10,210	1.49	11,328	82,632
8		0	0	26	72,202	2.15	15,498	2.05	15,569	103,269
9		0	0	26	72,202	3.05	21,930	2.13	16,172	110,304
10		0	27,000	26	72,202	1.62	11,631	3.70	28,087	138,920
11		0	27,100	24	66,648	2.02	14,559	1.67	12,696	121,003
12		0	26,900	14	38,878	1.39	10,015	1.87	14,181	89,974
13		0	0	4	11,108	2.99	21,502	1.99	15,138	47,749
14		0	0	0	0	3.41	24,518	3.77	28,690	53,207
15		0	0	2	5,554	1.68	12,083	1.69	12,881	30,518
16		0	0	5	13,885	2.87	20,632	3.04	23,121	57,638
17		0	27,300	23	63,871	2.67	19,227	1.58	11,976	122,374
18		0	27,500	28	77,756	1.84	13,251	3.50	26,624	145,131
19		0	26,600	41	113,857	2.78	19,981	2.30	17,513	177,951
20		0	0	27	74,979	2.48	17,865	1.80	13,697	106,541
21		0	0	16	44,432	1.53	11,005	2.02	15,359	70,797
22		0	0	22	61,094	1.93	13,864	2.72	20,656	95,614
23		0	0	0	0	2.41	17,364	1.42	10,757	28,121
24		0	26,000	0	0	1.87	13,456	1.27	9,615	49,071
25		0	26,100	0	0	2.41	17,360	3.04	23,116	66,575
26		0	24,500	5	13,885	3.63	26,105	3.04	23,085	87,576

27		0	0	3	8,331	1.93	13,888	1.51	11,511	33,730
28		0	0	18	49,986	2.93	21,066	2.12	16,132	87,184
29		0	24,700	19	52,763	1.28	9,244	2.91	22,124	108,830
30		0	0	19	52,763	1.43	10,309	2.89	21,998	85,070
Total										2,516,605

Month: October
Year: 2024

	Tank Location	Volume Drained	Belt Filter Press Filtrate	Digester Decant Inches	Digester Decant Gallons	Final Clarifier skimming Hrs	Final Clarifier skimming Gallons	Primary Clarifier skimming Hrs	Primary Clarifier skimming Gallons	Total Recycle Flow Gallons
1		0	0	21	58,317	2.58	18,610	3.71	28,172	105,099
2		0	27,900	25	69,425	2.72	19,555	1.48	11,236	128,116
3		0	28,600	7	19,439	3.45	24,857	2.47	18,766	91,661
4		0	0	0	0	3.17	22,815	3.25	24,698	47,513
5		0	0	0	0	2.52	18,148	2.50	18,962	37,110
6		0	9,400	5	13,885	3.67	26,420	2.57	19,504	69,209
7		0	17,300	8	22,216	2.39	17,193	1.24	9,436	66,145
8		0	0	7	19,439	1.65	11,911	3.51	26,674	58,024
9		0	0	31	86,087	1.24	8,893	1.30	9,904	104,885
10		0	27,200	19	52,763	3.20	23,029	3.57	27,165	130,157
11		0	20,800	19	52,763	1.66	11,920	2.78	21,151	106,634
12		0	0	20	55,540	1.77	12,733	3.14	23,841	92,114
13		0	0	5	13,885	1.59	11,431	3.41	25,934	51,250
14		158,000	0	0	0	2.04	14,681	2.64	20,101	192,782
15		158,000	26,400	0	0	1.72	12,402	1.20	9,147	205,950
16		62,000	28,500	0	0	3.32	23,886	3.03	23,025	137,411
17		0	25,700	9	24,993	3.11	22,359	3.78	28,744	101,796
18		0	0	9	24,993	3.66	26,372	3.83	29,107	80,471
19		0	0	20	55,540	2.69	19,402	1.22	9,248	84,190
20		0	0	23	63,871	3.03	21,801	2.32	17,612	103,284
21		0	0	24	66,648	1.21	8,691	3.54	26,906	102,246
22		0	21,000	23	63,871	2.67	19,240	2.35	17,871	121,982
23		0	11,100	22	61,094	3.76	27,042	1.57	11,928	111,164
24		0	24,600	3	8,331	1.21	8,677	1.80	13,707	55,315
25		0	0	0	0	3.88	27,907	3.48	26,447	54,354
26		0	0	0	0	1.63	11,711	2.35	17,839	29,551

27		0	0	0	0	2.58	18,563	2.35	17,855	36,418
28		0	0	2	5,554	2.06	14,832	1.85	14,030	34,415
29		0	24,500	11	30,547	1.51	10,858	2.79	21,209	87,114
30		0	19,500	31	86,087	3.15	22,714	1.90	14,442	142,743
31		0	24,000	30	83,310	2.35	16,901	3.38	25,685	149,896
Total										2,918,999

Month: November
Year: 2024

	Tank Location	Volume Drained	Belt Filter Press Filtrate	Digester Decant Inches	Digester Decant Gallons	Final Clarifier skimming Hrs	Final Clarifier skimming Gallons	Primary Clarifier skimming Hrs	Primary Clarifier skimming Gallons	Total Recycle Flow Gallons
1		0	0	28	77,756	2.16	15,530	3.41	25,953	119,239
2		0	0	22	61,094	1.38	9,904	2.93	22,238	93,237
3		0	0	27	74,979	2.78	20,022	2.52	19,146	114,147
4		0	27,500	0	0	1.72	12,384	2.95	22,425	62,309
5		0	20,300	0	0	2.66	19,116	2.50	18,994	58,410
6		0	21,200	0	0	1.60	11,550	1.94	14,767	47,517
7		0	0	3	8,331	3.23	23,263	2.87	21,846	53,440
8		0	0	21	58,317	1.62	11,632	1.70	12,920	82,869
9		0	6,700	20	55,540	3.72	26,763	1.22	9,279	98,282
10		0	10,500	25	69,425	2.27	16,315	3.07	23,333	119,572
11		0	17,600	16	44,432	2.98	21,463	3.46	26,262	109,757
12		0		17	47,209	2.18	15,709	1.23	9,373	72,291
13		0	0	20	55,540	1.26	9,085	2.58	19,588	84,213
14		0	0	0	0	1.30	9,372	2.77	21,049	30,420
15		0	0	6	16,662	3.24	23,341	1.41	10,701	50,705
16		0	0	0	0	3.26	23,488	3.01	22,846	46,334
17		0	0	0	0	2.12	15,247	1.97	14,934	30,181
18		0	0	0	0	1.80	12,940	3.46	26,308	39,248
19		0	6,700	20	55,540	3.74	26,908	1.46	11,077	100,225
20		0	23,200	37	102,749	1.52	10,929	1.61	12,222	149,099
21		0	21,700	32	88,864	2.92	21,040	2.06	15,645	147,248
22		0	24,200	24	66,648	3.85	27,713	2.69	20,408	138,969
23		0	11,000	20	55,540	2.03	14,597	3.48	26,424	107,562
24		0	12,500	18	49,986	2.50	18,000	2.40	18,249	98,734
25	Final CF	158,000	0	4	11,108	3.06	22,054	1.86	14,102	205,264
26	Final CF	158,000	21,300	0	0	1.58	11,352	3.61	27,435	218,087

27		0	26,100	0	0	3.02	21,758	2.51	19,056	66,914
28		0	0	0	0	3.47	24,964	3.28	24,909	49,873
29		0	0	1	2,777	2.91	20,964	2.68	20,330	44,071
30		0	0	20	55,540	2.77	19,946	2.94	22,318	97,804
Total										2,736,024

Month: December
Year: 2024

	Tank Location	Volume Drained	Belt Filter Press Filtrate	Digester Decant Inches	Digester Decant Gallons	Final Clarifier skimming Hrs	Final Clarifier skimming Gallons	Primary Clarifier skimming Hrs	Primary Clarifier skimming Gallons	Total Recycle Flow Gallons
1		0	0	23	63,871	1.79	12,864	2.45	18,587	95,322
2		0	0	30	83,310	2.31	16,639	2.84	21,557	121,505
3		0	25,400	25	69,425	3.72	26,759	3.86	29,332	150,915
4		0	27,200	11	30,547	3.07	22,094	1.48	11,265	91,106
5		0	0	1	2,777	2.29	16,497	1.78	13,499	32,773
6		0	24,600	0	0	2.29	16,484	2.88	21,905	62,989
7		0	0	0	0	2.65	19,072	2.52	19,173	38,244
8		0	0	39	108,303	3.41	24,573	3.28	24,925	157,801
9		0	24,100	37	102,749	3.35	24,096	3.53	26,837	177,782
10		0	0	28	77,756	2.93	21,067	3.65	27,721	126,544
11		0	0	21	58,317	3.73	26,874	1.55	11,816	97,007
12		0	0	17	47,209	2.71	19,497	1.97	14,970	81,676
13		0	28,600	4	11,108	1.49	10,758	3.86	29,353	79,819
14	Aeration TK	502,500	0	0	0	1.59	11,450	2.04	15,486	529,436
15	Final CF	158,000	0	0	0	3.34	24,035	1.30	9,859	191,895
16	Primary CF-5	345,000	0	0	0	3.30	23,725	1.50	11,397	380,123
17		0	0	16	44,432	3.76	27,037	3.27	24,819	96,288
18		0	24,600	21	58,317	2.34	16,818	2.47	18,738	118,474
19		0	25,900	26	72,202	3.67	26,401	2.95	22,392	146,895
20		0	22,900	26	72,202	1.32	9,503	3.37	25,625	130,230
21		0	24,500	20	55,540	1.22	8,804	2.35	17,851	106,695
22		0	0	4	11,108	2.24	16,104	2.77	21,035	48,246
23		0	0	5	13,885	3.26	23,472	2.93	22,280	59,637
24		0	0	8	22,216	1.42	10,227	3.37	25,610	58,053
25		0	0	6	16,662	1.55	11,143	2.87	21,838	49,643
26		0		24	66,648	2.79	20,073	2.06	15,663	102,384

27		0	0	28	77,756	1.74	12,499	2.57	19,515	109,770
28		0	11,100	24	66,648	1.53	11,021	1.21	9,175	97,945
29		0		18	49,986	3.46	24,902	2.33	17,725	92,613
30	Aeration TK	335,000	0	0	0	1.74	12,533	3.42	25,964	373,497
31	Final CF	158,000		0	0	2.75	19,776	2.39	18,134	195,910
Total										4,201,218

APPENDIX B

NMWA SEWER SERVICE AREA MAP

Chapter 94

NORRISTOWN MUNICIPAL WASTE AUTHORITY SEWER SERVICE AREA

NORRISTOWN BOROUGH MONTGOMERY COUNTY, PA

1800 Chain St

Norristown Centre (Logan Square)

200 E Logan St

1529 DeKalb St

Elon at Montgomery Park

1210 Stanbridge Street (votoC Brewing)

2 E Airy St (Montgomery County Justice Center)

221 W Main St

230 W Main St

WWTP

Legend

- 2020 Connection
- Connection Approved/Exempted (but not yet constructed)
- Projected Connection
- Manhole
- Stream
- Abandoned Sewer Main
- Sewer Main
- Parcels
- WWTP

Sewer Quads

- Quad 1: Sub-basins A, B, C1 and
- Quad 2: Sub-basins M and N
- Quad 3: Sub-basins D/F, E, G and J
- Quad 4: Sub-basins H, K and L

N

0 250 500 1,000 1,500 Feet

Date Sources:
Sewer Data, SSM
Stream, PASDA
Roads, PennDOT
Parcels, Montgomery County

REMINGTON & VERNICK ENGINEERS

Date: 3/17/2021	Prepared By:	ECC
	Checked By:	RJP

Document Path: L:\Elizabeth Colletti\GIS\Norristown\2020 NMWA Sewer Service.mxd

APPENDIX C

INDUSTRIAL HARMFUL AND PROHIBITED WASTES

ARTICLE I – INDUSTRIAL HARMFUL AND PROHIBITED WASTES

SECTION 1 – GENERAL PROVISIONS

1.1 Purpose and Policy

1. The objectives of this Article I of the Rates, Rules and Regulations ("Rules") are:

A. To prevent the introduction of pollutants into the wastewater collection and treatment system owned and operated by the Norristown Municipal Waste Authority ("Authority") which will interfere with its operation, contaminate the biosolids generated at STP, or otherwise be incompatible with the system;

B. To prevent the introduction of pollutants into the wastewater collection and treatment system of the Authority that will be inadequately treated and thus will pass-through the STP into the receiving waters or the atmosphere;

C. To protect the environment, the general public and Authority personnel against the hazards associated with discharges of toxic or otherwise incompatible pollutants into the Sewer System;

D. To improve the opportunity to recycle and reclaim the wastewater and biosolids from the STP;

E. To provide for the equitable distribution of costs associated with the development and implementation of the Authority's industrial pretreatment program, and other improvements to the wastewater collection and treatment system; and

F. To help assure compliance with the National Pollution Discharge Elimination System ("NPDES") permit, biosolids use and disposal requirements, the Clean Water Act, the General Pretreatment Regulations, and any other federal or state laws which with the applicable municipalities and Authority must comply.

The Rules will be implemented by the Authority through issuance of permits to those industrial users deemed a significant industrial user or industrial user, through monitoring, reporting and enforcement of the Rules with the permitted users, and through enforcement of general requirements for all other users. The Rules also assume that the capacity of the sewer system allocated to existing users shall not be

preempted, and provides for the setting of fees for the equitable distribution of costs resulting from the program established herein.

The Rules shall apply to all persons who are users or significant industrial users of the collection systems serviced by the Authority. Except as otherwise provided herein, the provisions of the Rules shall be administered and implemented by the Authority.

Nothing contained in the Rules shall be construed as preventing any special agreement or arrangement between the Authority and any significant industrial users allowing a waste of unusual strength or character to be accepted by the Authority through special agreements in writing, executed prior to such acceptance, containing safeguards, limitations, and conditions acceptable to the Authority. Any such agreement or arrangement shall not allow a discharge that exceeds Categorical Standards.

1.2 Abbreviations

The following abbreviations, when used in the Rules, shall have the designated meanings:

BOD – Biochemical Oxygen Demand
BMP – Best Management Practices
BMR – Baseline Monitoring Report
CFR – Code of Federal Regulations
CIU – Categorical Industrial User
COD – Chemical Oxygen Demand
EPA – U.S. Environmental Protection Agency
gpd – gallons per day
IU – Industrial User
mg/l – milligrams per liter
NPDES – National Pollutant Discharge Elimination System
NSCIU – Non-Significant Categorical Industrial User
POTW – Publicly Owned Treatment Works
RCRA – Resource Conservation and Recovery Act
SIU – Significant Industrial User
SNC – Significant Noncompliance
STP – Norristown Sewage Treatment Plan
TSS – Total Suspended Solids
U.S.C. – United States Code

1.3 Definitions

Unless the context specifically indicates otherwise, the following terms and phrases, as used in this Article I only, shall have the meanings hereinafter designated. Words in the present tense include the future.

The singular numbers includes the plural number. The plural number includes the singular number. The word "shall" is mandatory, while the word "may" is permissive.

1. Act: The Federal Water Pollution Control Act, also known as the Clean Water Act, as amended, 33 U.S.C. section 1251 et seq.

2. Administrative Order: A document prepared by the Authority which directs an industrial user to undertake or to cease specific activities and which carries specific assessments to be enforced when addressing continued noncompliance. The Administrative Order may contain a Compliance Schedule specifying the time frame by which the industrial user must perform certain activities which will ultimately result in compliance with all requirements contained in the Order.

3. Approval Authority: The Administrator or the Regional Administrator of EPA.

4. Authorized or Duly Authorized Representative of the User:

    a. If the user is a corporation:

        i. The president, secretary, treasurer, or a vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or

        ii. The manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiate and direct other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; can ensure that the necessary systems are established or actions taken to gather complete and accurate information to meet Industrial Waste Discharge Permit requirements; and where Authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

b. If the user is a partnership, limited liability or sole proprietorship: a general partner, manager or proprietor, respectively.

c. If the user is a Federal, State or local governmental facility: a director or highest official appointed or designated to oversee the operation and performance of the activities of the government facility, or their designee.

d. The individuals described in paragraphs 1 through 3, above, may designate a Duly Authorized Representative if the authorization is in writing, the authorization specifies the individual or position responsible for the overall operation of the facility from which the discharge originates or having overall responsibility for environmental matters for the company and the written authorization is submitted to the Authority.

5. Average Daily Flow: The wastewater discharge volume from the most recent calendar quarter divided by the number of calendar days in that quarter.

6. Biochemical Oxygen Demand: The quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedures for five (5) days at 20 degrees centigrade, usually expressed as a concentration (e.g., mg/l).

7. Best Management Practices: means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to implement the prohibitions listed in §403.5(a)(1) and (b) of the Act. BMPs include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage.

8. Bypass: The intentional diversion of waste streams from any portion of an industrial user's facility for pretreatment.

9. Categorical Industrial User: Any industry subject to Pretreatment Standards as specified in 40 CFR, Chapter 1, Subchapter N, as may hereafter be amended or modified, establishing quantities or concentrations of pollutants or pollutant properties which may be discharged or introduced to a treatment plan by existing or new industrial users in specific industrial subcategories.

10. Categories: The five (5) separate group of violations:

- Sampling, Monitoring and Reporting Violations
- Effluent Limits Violations
- Compliance Schedule Violations
- Unauthorized Discharges
- Noncompliance Violations Detected Through Field Inspections

11. Chemical Oxygen Demand: The quantity of oxygen, expressed in mg/L, required to chemically oxidize the organic and inorganic matter in a water or wastewater sample under the standard laboratory procedure. The standard laboratory procedure shall be that in the latest edition of "Standard Methods for the Examination of Water and Sewage" published by the American Public Health Association.

12. Compatible Pollutant: Shall mean BOD, COD, Total Suspended Solids, Total Kjeldahl Nitrogen, phosphate, and fecal coliform bacteria.

13. Daily Maximum: The arithmetic average of all effluent samples for a pollutant collected during a calendar day.

14. Daily Maximum Limit: The maximum allowable discharge limit of a pollutant during a calendar day. Where daily maximum limits are expressed in units of mass, the daily discharge is the total mass discharged over the course of the day. Where daily maximum limits are expressed in terms of a concentration, the daily discharge is the arithmetic average measurement of the pollutant concentration derived from all measurements taken that day.

15. Discharge Permit: A permit issued by Authority authorizing the discharge of tank truck or hauled waste at the STP.

16. Enforcement Response Plan ("ERP"): A plan developed by the Authority that details the response that will be taken for various violations of the Rules, a Categorical Pretreatment Standard, or any other applicable law. The ERP is a supplement to and made a part of the Rules.

17. Engineer: The Authority's consulting engineer.

18. EPA: The United States Environmental Protection Agency, including, where appropriate, the Administrator or other duly authorized official of said agency.

19. Equivalent Dwelling Unit: Any source of wastewater into the Authority sewer system that has the following Monthly Average wastewater characteristics.

Flow	275 gallons per day
Ammonia-Nitrogen	25 mg/L
BOD	250 mg/L
Phosphate	10 mg/L as P
Total Suspended Solids	250 mg/L
Total Kjeldahl Nitrogen	40 mg/L as N

20. Event: Any violation of the Rules which occurs within any one (1) of the categories.

21. Existing Source: Any course of discharge that is not a "New Source".

22. Garbage: Solid wastes from the domestic and commercial preparation, cooking and dispensing of foods, and from the commercial handling, storage and sale of produce.

23. Grab sample: A sample that is taken from a waste stream on a one-time basis is over a period of time not to exceed fifteen minutes, with no regard to the flow in the waste stream.

24. Holding Tank Waste: Any waste from holding tanks, such as vessels, chemical toilets, campers, trailers, septic tanks, and vacuum-pump tank trucks.

25. Indirect Discharge: The discharge or introduction of pollutants into the sewer system, including holding tank waste discharged into the system as outlined in 40 CFR Part 403.3(i) and Sections 307(b), (c) and (d) of the Act.

26. Industrial User: Any person discharging Industrial wastewater to the sewer system.

27. Industrial wastewater: Any water which, during a manufacturing, or processing operation, including those regulated under Sections 307(b), (c) or (d) of the Act, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, by-product, or waste product, or any other water contaminated by an industrial process, and distinct from Sanitary Sewage.

28. Industrial Waste Discharge Permit: A permit authorizing a person to deposit or discharge Industrial wastewater into the sewer system.

29. Instantaneous Limit: The maximum concentration of a pollutant allowed to be discharged at any time, determined from the analysis of any discrete or composited sample collected, independent of the industrial flow rate and the duration of the sampling event.

30. Interference: A discharge that, alone or in conjunction with a discharge or discharges from other sources, inhibits or disrupts, the STP processes or operations which contributes to a violation of any requirement of the Authority's NPDES Permit of a decrease in treatment efficiency. The term includes inhibition or disruption of sewage sludge use or disposal from the STP in accordance with Section 405 of the Act or any criteria, guidelines, or regulations developed pursuant to the Solid Waste Disposal Act ("SWDA"), the Clean Air Act, the Toxic Substances Control Act, or more stringent State criteria (including those contained in any State sludge management plan prepared pursuant to Title IV of SWDA) applicable to the method of disposal or use employed by the STP.

31. Isolated Violation: A violation which would otherwise give rise to civil penalty assessment hereunder for an Event which has not occurred for a term of three (3) years or greater.

32. Legal Action: Depending on the circumstances of the violation may refer to any civil penalty assessment of any other appropriate lawful remedy provided or permitted by the Rules.

33. Local Discharge Limits or Local Limits: Numerical limitations on the concentration, mass or other characteristics of wastes or pollutants, discharged to the sewer system by industrial users, and which are developed by the Authority to implement the general and specific discharge prohibitions listed in 40 CFR 403.5(a)(1) and (b), as set forth on Exhibit "A" and incorporated in the Rules.

34. Manager: The person designated by the Authority to supervise the operation of the STP and collection system and who is charged with certain duties and responsibilities by the Rules, or his duly authorized representative.

35. Medical Waste: Isolation wastes, infectious agents, human blood and blood products, pathological wastes, sharps, body parts, contaminated bedding, surgical wastes, potentially contaminated laboratory wastes, and dialysis wastes.

36. Monthly Average: The sum of all daily discharges measures during a calendar month divided by the number of daily discharges measured during that month.

37. Monthly Average Limit: The highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during that month.

38. National Pollutant Discharge Elimination System Permit: A permit issued pursuant to Section 402 of the Act.

39. National Pretreatment Standards, Pretreatment Standards or Standards: Any regulation or requirement containing specific or general pollutant discharge limitations established in accordance with Sections 307 (b) and (c) of the Act which applies to all industrial users in the sewer system.

40. National Prohibited Discharge Standard or Prohibited Discharge: Any regulation developed under the Authority of 40 CFR, Section 403.5.

41. New Source:

a. Any building, structure, facility, or installation from which there is (or may be) a discharge of pollutants, the construction of which commenced after the publication of proposed Pretreatment Standards under section 307(c) of the Act that will be applicable to such source if such Standards are thereafter promulgated in accordance with that section, provided that:

i. The building, structure, facility, or installation is constructed at a site at which no other source is located; of

ii. The building, structure, facility, or installation totally replaces the process of production equipment that causes the discharge of pollutants at an Existing Source; or

iii. The production or wastewater generating process of the building, structure, facility or installation are substantially independent of an Existing Source at the same site. In determining whether these are substantially independent, factors such as the extent to

which the new facility is engaged in the same general type of activity as the Existing Source, should be considered.

b. Construction on a site at which an Existing Source is located results in a modification rather than a New Source if the construction does not create a new building, structure, facility, or installation meeting the criteria above but otherwise alters, replaces, or adds to existing process or production equipment.

c. Construction of a New Source as defined under this Paragraph has commenced if the owner of operator has:

i. Begun, or caused to begin, as part of a continuous onsite construction program any placement, assembly, or installation of facilities or equipment; of

ii. Begun, or caused to begin any significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation or new source facilities or equipment; or

iii. Entered into a binding contractual obligation for the purchase of facilities or equipment which is intended to e used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under this paragraph.

42. Non-contact Cooling Water: Water used for cooling that does not come into direct contact with any raw material, intermediate product, waste product or finished product.

43. Notice of Violation (NOV): An official communication from the Authority to the industrial user documenting that a pretreatment violation has occurred.

44. Qualified Professional: Registered professional engineer skilled in the field of wastewater treatment.

45. Pass Through: Discharge through the STP that exists in quantities or concentrations, alone or with discharges from other sources, will cause a violation of any condition of the Authority's NPDES Permit, including an increase in the magnitude or duration of a violation.

46. Pennsylvania Department of Environmental Protection ("PaDEP"): The Department of Environmental Protection of the Commonwealth of Pennsylvania, or any department or agency of the Commonwealth succeeding to the existing jurisdictions or responsibility of the Department of Environmental Protection.

47. pH: The logarithm of the reciprocal of the hydrogen ion concentration expressed as moles per liter.

48. Pollutant: Dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, Medical Wastes, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rocks, sand, cellar dirt, municipal, agricultural and industrial wastes, and certain characteristics or wastewater (e.g., pH, temperature, TSS, turbidity, color, BOD, COD, toxicity, or odor).

49. Pretreatment: The reduction in the amount of Pollutants, the elimination of Pollutants, or the alteration of the nature of Pollutant properties in wastewater to a less harmful state prior to in lieu of discharging or otherwise introducing such Pollutants into the sewer system. The reduction or altercation may be obtained by physical, chemical or biological processes, process changes or by other means, except as prohibited by 40 CFR 403.6(d).

50. Pretreatment Requirement: Any substantive or procedural requirement related to Pretreatment, other than a National Categorical Pretreatment Standard, imposed on an industrial user.

51. Pretreatment Standard: Any regulation containing Pollutant discharge limits promulgated by the EPA in accordance with Sections 307 (b) and (c) of the Act, which applies to industrial users. This term includes National Categorical Pretreatment Standards, Prohibited Discharges, and Local Discharge Limits.

52. Prohibited Discharge Standards or Prohibited Discharges: Absolute prohibitions against the discharge of certain substances; these prohibitions appearing Section 2.1 of this Article.

53. Septic Tank Waste: Any sewage from holding tanks such as vessels, chemical toilets, campers, trailers and septic tanks.

54. Sewage Treatment Plant or STP: The Authority owned treatment works, as defined by section 212 of the Act (33 U.S.C section 1292). This definition includes any devices or systems used in the storage, treatment, recycling, and reclamation of sewage or industrial waste of a liquid nature.

55. Show-Cause Hearing: An official meeting between the authorized representative of the Authority and the industrial user to seek the resolution of conditions and violations. The Show-Cause Hearing may also result in the Authority issuing an Administrative Order to the industrial user.

56. Significant Industrial User: Any industrial user that (1) is subject to the National Categorical Pretreatment Standards; or (2) discharges twenty-five thousand (25,000) or more per day or Industrial wastewater, or (3) contributes a waste stream which makes up five percent or more of the dry weather compatible pollutant capacity of the STP; or (4) has a reasonable potential, as determined by the Authority, or EPA, to adversely affect the STP by Interference, Pass Through Pollutants, sludge contaminations, to endanger collection system and STP personnel, or to violate any applicable Pretreatment Standard.

57. Significant Noncompliance ("SNC"): An industrial user is in significant noncompliance if its violations meet one or more of the following criteria.

a. Chronic violations of wastewater discharge limits, defined as those in which 66 percent or more of all the measurements taken during a six-month period exceed (by any magnitude) a numeric Pretreatment Standard or Requirement, including instantaneous limits;

b. Technical Review Criteria ("TRC") violations, defined as those violations in which 33 percent or more of all of the measurements for each parameter measured taken during a six-month period equal or exceed the product of a numeric Pretreatment Standard or Requirement, including instantaneous limits times the applicable TRC multiplier (TRC multiplier equals 1.4 for BOD, TSS, fats, oil and grease and 1.2 for all other pollutants with numerical limits, except pH);

c. Any other violation of a Pretreatment Standard or Requirement (daily maximum, longer-term average or instantaneous) that the Authority determines has caused, alone or in a combination with other discharges, an Interference or Pass-Through at the STP (including endangering the health of a POTW personnel or the general public);

d. Any discharge of a pollutant that has caused imminent endangerment to the health of STP personnel, the environment or the general public; or has resulted in the Authority exercising any emergency Authority to halt or prevent such a discharge;

e. Failure to meet, within ninety (90) days after the scheduled date, a compliance schedule date, or a compliance schedule milestone contained in the user's Industrial Waste Discharge Permit or enforcement action for starting construction, completing construction, or attaining final compliance;

f. Failure to provide, within forty-five (45) day after the due date, required reports such as baseline monitoring reports, 90-day compliance reports, periodic self-monitoring reports, and reports on compliance with a compliance schedules;

g. Failure to accurately report incidents of noncompliance; or

h. Any other violation or group of violations, which may include a violation of Best Management Practices, that the Authority determines will adversely affect the overall implementation of its Industrial Pretreatment Program.

58. Significant Violation: Any incident that results in a violation of the Authority's NPDES Permit or biosolids disposal requirements, or has a toxic effect on the receiving waters.

59. Slug Load: Any discharge at a flow rate of concentration, which could cause a violation of the prohibited discharge standards in Section 2.1 of this Article. A Slug Discharge is any Discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch Discharge, which has a reasonable potential to cause Interference or Pass Through, or in any other way violate the Authority's regulations, Local Limits or Permit conditions.

60. Slug Control Plan: A report prepared by an industrial user and provided to the Authority in accordance with the Rules which details the existing and proposed facility plans and operating procedures to be followed by that user in the event of a Slug Load.

61. Standard Industrial Classification ("SIC": A classification pursuant to the latest Standard Industrial Classification Manual issued by the Executive Office of the President, Office of Management and Budget.

62. Standard Methods: The latest edition of "Standard Methods for the Examination of Water and Wastewater", a manual published by the American Public Health Association specifying analytical procedures for testing and analysis of wastewater.

63. State: Commonwealth of Pennsylvania.

64. Stormwater: Any flow occurring during or following any form of natural precipitation, and resulting from such precipitation, including snowmelt.

65. Surcharge: An additional charge for the treatment of extra-strength wastewater in excess of the basic charge for treatment of wastewater.

66. Termination of Services: The issuance of a formal notice of termination by the Authority to an industrial user for continued or severe violations of Significant Noncompliance (SNC).

67. Total Suspension of Solids ("TSS"): The total suspended matter that either floats on the surface of, or is in suspension in, water or wastewater, as measured by laboratory filtration as prescribed in "Standard Methods"..

68. Total Kjeldahl Nitrogen ("TKN"): The sum of the organic nitrogen and ammonia nitrogen present in wastewater, as measured by standard laboratory procedure as described in Standard Methods.

69. Twenty-four Hour Composite Sample: A sample that is collected over time, formed either by continuous sampling or by mixing discrete samples collected at regular intervals, not exceeding one (1) hour, during a twenty-four hour time span. The sample may be collected either as a time composite sample (composed of discrete sample aliquots collected in one container at constant time intervals providing representative samples irrespective of discharge flow) or as a flow proportional composite sample

(collected as either a constant sample volume at time intervals proportional to stream flow, or collected by increasing the volume of each aliquot as the flow increases while maintaining a constant time interval between aliquots).

70. Upset: A condition in which the stability of the biological mass of organism used to treat the wastewater or wastewater solids is disrupted or negatively affected in any way.

71. User or Industrial User: A source of Indirect Discharge or customer.

72. Wastewater: Liquid and water-carried industrial wastes and sewage from structures including residential dwellings, commercial buildings, industrial and manufacturing facilities, and institutions, whether treated or untreated, which are contributed to the sewer system.

SECTION 2 – PROHIBITIONS AND RESTRICTIONS ON ALL USERS

2.1 General Discharge Restrictions

Except as otherwise provided in the Rules, no user shall discharge or cause to be discharged to the sewer system any sewage, industrial wastewater, or other matter or substance.

A. Having a temperature which will inhibit biological activity at the STP resulting in Interference, but in no case with a temperature at the introduction into the sewer system which exceeds d120 degrees F or is less than 40 degrees F, and in no case heat in such quantities that the temperature of the influent to the STP exceeds 104 degrees F.

B. Containing petroleum oils, non-biodegradable cutting oils, or other products of mineral oil origin, animal fats, oil wax, or grease or other similar substances, (collectively called “oil and grease”) in amounts that will cause Pass Through or Interference.

C. Containing any liquids, solids, or gases at concentrations, which are, or may be sufficient, either alone or by interaction with other substances, to cause fire or explosion or be injurious in any other way to the sewer system or to the operation of the STP. Prohibited materials include, but are not limited to, gasoline, fuel oil, kerosene, naphtha, paint products, sulfides, and any substance having a closed cup flashpoint of less than one hundred and forty (140) degrees Fahrenheit using the test methods specified in 40 CFR 261.21.

D. Containing oxygen-demanding pollutants (BOD, etc .) released in a discharge at a flow rate and/or pollutant concentration which, either singly or by interaction with other pollutants, will cause Interference with the STP.

E. Containing solid or viscous substances at concentrations which will cause obstruction to the flow in a sewer or other Interference such as but not limited to: ashes, cinders, spent lime, stone dust, sand, mud, straw, shavings, metals, glass, rags, grass clippings, feathers, tar, plastics, wood, whole blood, paunch manure, bentonite, lye, building materials, rubber, asphalt residues, hairs, bones, leather, porcelain, china, ceramic wastes, polishing wastes, or glass grindings.

F. Having a pH, stabilized, lower than 5.0 or higher than 10.0 or having any other corrosive or scale performing property capable of causing damage or hazard to structures, equipment, bacterial action, or personnel of the sewer system.

G. Containing pollutants in sufficient quantity, either singly or by interaction with other pollutants, to injure, cause a Pass Through or Interference in the sewer system, constitute a hazard to humans, animals or plans, create a toxic effect in the receiving waters of the STP, or to exceed any limitation set forth in a National Categorical Pretreatment Standard.

H. Containing any noxious or malodorous liquids, gases, or solids which, either singly or by interaction with other wastes are sufficient to create a public nuisance or result in toxic gases, vapors or fumes in the sewer system in a quantity that will cause worker health and safety problems.

I. Containing objectionable color not removed in the treatment process, such as, but not limited to, dye wastes and vegetable tanning solutions.

J. Containing radioactive substances of such half-life or concentration as may exceed limits which are prohibited by applicable State or Federal regulations.

K. Prohibited by any permit, statute, rule, regulation, and ordinance issued or promulgated by any public agency, including the State or Federal regulations.

L. Containing any substance which shall cause the STP to be in non-compliance with sludge use or disposal criteria, guidelines or regulations developed under Section 405 of the Act or be in

noncompliance with any criteria, guidelines, or regulations affecting sludge use or disposal promulgated pursuant to the Solid Waste Control Act, or State Clean Air Act, the Toxic Substances Control Act, or State criteria applicable to the sludge management method being used.

M. Containing Medical Wastes, except as specifically approved by the Authority.

N. Containing non-biodegradable complex carbon compounds.

O. Constituting a Slug Load.

P. Containing Stormwater from pavements, area ways, roofs, foundation drains or other sources.

Q. Containing any Garbage with particles greater than one-half (1/2) inch in size.

R. Containing pesticides, unless upon written request, special permission is obtained from the Authority.

2.2 Compatible Pollutant Limitations

All wastewater entering the sewer system shall comply with the following typical Average Monthly domestic wastewater levels unless otherwise stated in writing by the Authority by way of an Industrial Waste Discharge Permit, and at no time shall exceed the Local Limits (see Exhibit "A"). Wastewater with concentrations greater than the domestic concentrations is considered Extra strength wastewater and may be subject to a surcharge.

Parameter	Domestic Concentration (mg/L)
Ammonia Nitrogen	25
Carbonaceous Biochemical Oxygen Demand	250
Oil and Grease	100
Total Suspended Solids	250

2.3 Trucked or Hauled Wastewater

A. Tank truck or hauled waste discharges to the sewer system are prohibited, except as authorized hereinafter.

B. Tank truck or hauled wastes may only be discharged at the STP upon the issuance of a Discharge Permit by the Authority.

C. Tank truck or hauled wastes authorized for discharge shall be discharged only at the location, time and at a rate fixed by the Discharge Permit.

D. Tank truck or hauled waste discharges shall not include any Industrial wastewater.

E. Prior to discharge, the tank truck or hauled waste shall be subject to inspection and sampling by the Authority.

F. Tank truck or hauled waste discharged shall be subject to rate and charges in accordance with a schedule established by the Authority, as amended from time to time.

SECTION 3 - PROHIBITIONS AND RESTRICTIONS ON INDUSTRIAL USERS

3.1 General

No person shall discharge Industrial wastewater into the sewer system in violation of Section 2 hereof and unless the person discharging the same has submitted a complete and accurate Industrial Waste Discharge Questionnaire to the Authority in the form prescribed by the Manager, and has been issued an Industrial Waste Discharge Permit or has been issued a written determination by the Manager that a Permit is unnecessary for the discharge described in the questionnaire.

Where a proposed discharge is believed by the Authority to have a reasonable potential for adversely impacting the sewer system, the Authority may require treatability studies to be performed by the industrial user on the proposed wastewater in order to demonstrate its compatibility with the sewer system. When such studies are required by the Authority, they shall be preceded by the submittal of a sewer treatability study plan by the industrial user to the Authority for review and approval. All costs associated with preparing the treatability study plan and performing the treatability study shall be borne by the industrial user. The Authority reserves the right to reject any treatability plan it feels is inadequate to show the treatability of a given wastewater.

3.2 Qualitative Limits

A. The Authority shall establish Local Discharge Limits regulating the discharge of specific Pollutants to the sewer system by industrial users. Local Discharge Limits may be established for any substance which is discharged, or likely to be discharged, to the sewer system.

B. Local Discharge Limits may limit concentration, mass, or a combination of the two, where a local limit or conventional pollutant standard is expressed only in terms of concentration of a pollutant in wastewater, the Manager may impose equivalent mass limits, expressed as mass of pollutant discharged per day, based on the applicable concentration limit and permitted effluent flow from the User.

C. The procedure for the calculation of Local Discharge Limits shall be as recommended by the Approval Authority.

D. Local Discharge Limits shall be calculated to prevent Interference; Pass Through; the discharge of toxic materials in toxic amounts; threats to worker health and safety; and physical, chemical, or biological damage to the sewer system.

E. Local Discharge Limits applicable to industrial users shall be adopted by separate resolution of the Authority and included in all Industrial Waste Discharge Permits.

F. Discharging any Pollutant in excess of a Local Discharge Limit established for that Pollutant shall be a violation of the Rules.

3.3 Spills or Slug Loads

A. All industrial users shall provide and maintain at their own expense facilities adequate to prevent an accidental discharger or Slug Load of any substance stored or used at the industrial user's facilities that, if discharged into the sewer system, will violate any of the provisions of Sections 2.1 or 3.2 of this Article. Slug Control Plans shall be submitted, as requested, to the Authority, detailing the facility plans and operating procedures to be utilized by the industrial user for this protection. Slug Control Plans shall contain, at a minimum, the following information:

1. A description of discharge practices, including non-routine discharges; description of stored chemicals;
2. Procedures for immediately notifying the Authority of accidental discharges and Slug Loads into the sewer system;
3. Procedures to prevent adverse impacts from such discharges and procedures to prevent recurrence of all such discharges.

All existing industrial users shall also provide the Authority with a copy of its Slug Control Plan, or demonstrate to the satisfaction of the Authority that such a plan is not needed, within 180 days of the adoption of the Rules. Any industrial user proposing to connect to the sewer system shall submit a copy of its Slug Control Plan to the Authority for approval, or demonstrate to the satisfaction of the Authority they are not needed, before connection to the sewer system. Review of such plans and operating procedures shall not relieve the user from the responsibility to modify the user's facility as necessary to meet the requirements of the Rules.

B. In the case of a Slug Load to the sewer system of any Pollutant, the industrial user shall immediately notify by telephone the Manger of the incident. The notification shall include information regarding the location of the discharge, the kind of pollutants involved, the concentration and volume of the discharge and corrective actions planned or taken.

C. Within five (5) days following a Slug Load, the industrial user shall submit to the Manager a detailed written report describing the cause of the discharge and the measures to be taken by the user to prevent similar future occurrences. Such notification shall not relieve the users of any liability on account thereof.

D. A notice shall be permanently posted by each industrial user on a bulletin board or other prominent place advising employees whom to call in the event of an accidental discharge or Slug Load. Employers shall inform all employees, who may cause or allow a Slug Load to occur, of the emergency notification procedure.

3.4 National Categorical Pretreatment Standards

Users must comply with the categorical Pretreatment Standards found at 40 CFR Chapter 1, Subchapter N, Parts 405-471. If the National Categorical Pretreatment Standards for any industrial user are more stringent than limitations imposed under the Rules for industrial users in that subcategory, then the Pretreatment Standards shall apply and are hereby incorporated in the Rules. The Authority shall notify all affected industrial users of the applicable reporting requirements under 40 CFR, Section 403.12. If an industrial user, subject to a National Categorical Pretreatment Standard, has not previously submitted an

Application for an Industrial Waste Discharge Permit, the user shall apply for a Permit within 90 days of promulgation of the National Categorical Pretreatment Standard.

3.5 Dilution Prohibition

Except where expressly authorized to do so by an applicable Pretreatment Standard or Pretreatment Requirement, no industrial user shall increase the use of process water, or in any other way attempt to dilute a discharge as partial or complete substitute for adequate treatment to achieve compliance with a Pretreatment Standard or Requirement. The Authority may impose mass limitations (in addition to those imposed under Section 3.3) on users in cases where the imposition of mass limitations is appropriate.

3.6 State Requirements

State requirements and limitations on Industrial wastewater discharges shall apply in any case where they are more stringent than Federal requirements and limitations or those in the Rules.

3.7 Authority's Right of Revision

The Authority reserves the right to establish more stringent limitations or requirements on discharges to the sewer system.

3.8 Industrial Waste Discharge Permits

A. General

1. No significant industrial user shall connect to or discharge wastewater to the sewer system without an Industrial Waste Discharge Permit. Non-significant industrial users may also be required to have an Industrial Waste Discharge Permit depending on the nature and quantity of their discharge, subject to the Authority's discretion.
2. Industrial users that are not required by the Authority to have an Industrial Waste Discharge Permit may `discharge Industrial wastewater to the sewer system, but are required to comply with all other provisions of the Rules. If an industrial user makes changes to the processes, flow, wastewater concentration, wastewater characteristics, or other operations reported in the most recent Industrial Waste Discharge Questionnaire filed by the user with the Authority, user shall immediately upon becoming aware such a

change has occurred, or ninety (90) days prior to such a change if it is planned, notify the Authority of the change and a determination will be made by the Authority whether the change(s) necessitate the issuance of an Industrial Waste Discharge Permit to the user.

3. Where an industrial user, subject to a newly promulgated National Categorical Pretreatment Standard, has not previously submitted an application for an Industrial Waste Discharge Permit, the user shall, within 90 days after the promulgation of the application National Categorical Pretreatment Standard:
    a. Obtain an Industrial Waste Discharge Permit; and
    b. Provide the baseline monitoring information required by 40 CFR 403.12 (b). This information shall be incorporated into the application for an Industrial Waste Discharge Permit.

B. Permit Application

1. All industrial users shall file with the Authority a complete and accurate Industrial Waste Discharge Permit application in the form prescribed by the Authority.
2. The application for an Industrial Waste Discharge Permit shall be fully completed and verified in writing by the industrial user, or a duly authorized and knowledgeable officer, agent or representative thereof. The application shall contain in units and terms appropriate for evaluation, such scientific or testing data, or other information, as may be required by the Authority and shall pay an application fee and shall reimburse the Authority for all expenses incurred as a result of the processing of the signed application. The Authority shall have, at its discretion, the right to inspect the premises, equipment and material, and laboratory testing facilities of the applicant.
3. Notwithstanding the above, the applicant shall provide the following minimum information to the Authority.

a. Name and address of the user; name, title, and telephone number of responsible official; name, title, and phone number of person to contact for information about the Industrial Waste discharge;

b. Description of the industry and the manufacturing process or operations that occur there and the types of products that are produced;

c. Applicable Standard Industrial Classification Codes for activities conducted at the facility;

d. Statement on whether the industry is subject to compliance with National Categorical Pretreatment Standards and which ones apply;

e. Indication and description of the sources of or the processes that produce Industrial wastewater;

f. Wastewater constituents and characteristics as required by the Authority and as determined by a reliable analytical laboratory; sampling and analysis shall be performed in accordance with procedures established by the EPA pursuant to Section 304(g) of the Act and contained on 40 CFR, Part 136, as amended. If the discharge is from a proposed new discharge, wastewater characteristics shall be estimated;

g. Volume of Industrial wastewater to be discharged to the sewer system and the methods of measuring same. Flow volume information shall include the time and duration of the discharge and the average daily and thirty (30) minute peak wastewater Flow rates including monthly, and seasonal variations, if any;

h. Description of any wastewater treatment facilities or processes used or proposed to be used to treat the Industrial wastewater flow rates including monthly, and seasonal variations, if any;

i. Schematic flow diagram showing the existing and proposed sources of Industrial wastewater and the on-site treatment processes.

j. The quantity of sludge removed from the system and their method and location of

disposal.

k. Description of any other wastes that are removed from the system, their quantities, and methods and locations of disposal.

l. List of raw materials used or stored on the premises, their material safety date sheets or other appropriate document, their approximate quantity of usage on a monthly basis, and its use by the user.

m. Plans and specifications for a sampling manhole.

n. A list of any additional environmental control permits held by or for the facility, such as air quality permits, RCRA permits, stormwater management permits, etc.

o. Such additional information as the Authority shall request.

4. The Industrial Waste Discharge Permit application shall be reviewed by the Authority Manager who will determine whether a Permit will be required for the discharge.

No Industrial Waste Discharge Permit shall be issued to an industrial user whose discharge of materials to sewers, whether shown upon the application or determined after inspection and testing conducted by the Authority, is not in conformance with Federal, State, or the Authority statutes, or resolutions. If an application is denied, the Manager shall state in writing the reason or reasons for denial, and said written communication shall be delivered to the relevant Municipality and the applicant.

5. If the Manager denies an application for an Industrial Waste Discharge Permit, the Authority Board shall review the denial, provided the industrial user gives written notice requesting the review, with appropriate support information within thirty (30) days after receipt of the denial. The Authority Board shall review the Industrial Waste Discharge Permit application, the written denial, and such other evidence and matters as the applicant shall present at its next regular meeting following receipt of the user's request for the review. The Board's decision shall be provided to the user within ten (10) days of the meeting and shall be final.

6. If, based on the characteristics of the industrial user's waste discharge, additional pretreatment and/or operation and maintenance procedures are required to meet any Authority, municipal, State or Federal Pretreatment Standards, the user shall submit to the Authority, prior to issuance of the Industrial Waste Discharge Permit the shortest reasonable schedule, as determined by the Authority, by which the user will provide such additional pretreatment. The Authority shall in include an acceptable compliance schedule in the user's Industrial Waste Discharge Permit. The completion date in this schedule shall be no later than the compliance date established by EPA for the applicable National Categorical Pretreatment Standards. The following conditions apply to this schedule:
    a. The schedule shall contain increments of progress in the forms of dates for the commencement and completion of major events leading to the construction and operation of additional Pretreatment required for the significant industrial user to meet the applicable Pretreatment Standards (e.g. hiring an engineer, completing preliminary plans, completing final plans, executing contracts for major components, commencing construction, completing construction, etc.).
    b. No increment shall exceed nine months.
    c. Not later than fourteen (14) days following each date in the schedule and the final date for compliance, the industrial user shall submit to the Authority a report including, as a minimum whether or not it complied with the increment of progress to be met on such date and, if not, the date on which it expects to comply with this increment of progress, the reason for delay, and the steps being taken by the user to return the construction to the schedule established. In no event shall more than nine (9) months elapse between such progress reports to the Authority.

C. Permit Modifications

Industrial Waste Discharge Permits may be modified by the Authority at any time when conditions warrant. As soon as possible following the promulgation of a National Categorical Pretreatment Standard, the Industrial Waste Discharge Permit of users subject to such standards shall be revised, if necessary, to require compliance with such standard within the time prescribed by such standard.

D. Permit Conditions

1. Industrial Waste Discharge Permits shall be expressly subject to all provisions of the Rules and all other applicable regulations, resolutions, user charges and fees established by the Authority. Permits shall contain the following:
    a. Effluent Limits, including best management practices, based on applicable general pretreatment standards 40 CFR, Part 403, categorical standards, local limits, and state and local law;
    b. Requirements for submission of technical reports or discharge reports, including the information to be contained and the signatory requirements of these reports;
    c. Requirements for maintaining and retaining plant records relating to wastewater discharge as specified by the Authority, including compliance records with regard to effluent limits and any best management practices, and affording the Authority access thereto.
    d. Requirements for notification of the Authority in advance of any new introduction of wastewater constituents or any substantial change in the volume or character of the wastewater constituents being introduced into the sewer system;
    e. Requirements for notification of slug discharges;
    f. List of prohibited charges;
    g. Statement of duration of the permit;
    h. Notification of the Rules regarding transferability;
    i. Notification of penalties provided for noncompliance;

j. Specifications for monitoring programs which may include sampling locations, frequency of sampling, number, types and standards for tests and reporting schedule;

k. Right of entry requirements for authorized representatives of the Authority; and

l. Indemnification of the Authority on account of the discharge.

Permits may also contain other requirements, including but not limited to:

a. Limits on the average and maximum rate and time of discharge or requirements for flow regulation and equalization;

b. Requirements for installation and maintenance of inspection and sampling facilities and pretreatment facilities;

c. Compliance schedules; and

d. Other conditions as deemed appropriate by the Authority to ensure compliance with the Rules, municipal ordinances or other requirements.

2. Issuance of an Industrial Waste Discharge Permit in no way relieves the industrial user from any liability on account of its discharge into the sewer system, whether discharge is permitted thereby or not.

E. Permit Duration

Industrial Waste Discharge Permits shall be issued for a three-year period. If the Authority elects not to cancel the permit on before its anniversary, the permit will automatically renew itself for another period of one (1) year upon payment by the user of the applicable permit renewal fee, however in no case shall the permit duration exceed five years before it is reissued . The terms and conditions of the permit shall be subject to modifications by the Authority during the term of the permit. The user shall be informed of any proposed changes in its permit at least thirty (30) days prior to the effective date of change. The Authority shall use its best efforts to inform the user at least sixty (60) days prior to the effective date. In the event that such changes require major changes in Pretreatment by the user, and the user's failure to comply with the major changes in Pretreatment by the user, and the user's failure to comply with the amended discharge requirements does not itself or with other failures to comply put the Authority in

substantial danger of violating any agreement, permit, regulation or law, then the user shall be allowed a reasonable period of time, as determined by the Authority, to comply with the changes provided the user requests a time extension and submits to the Authority an implementation schedule acceptable to the Authority within the sixty (60) days period.

F. Permit Transfer

Industrial Waste Discharge Permits are issued to a specific industrial user for a specific operation. An Industrial Waste Discharge Permit shall not be reassigned or transferred or sold to a new owner, new user, different premises, or a new or changed operation within the approval of the Authority. The succeeding owner of user shall also comply with the terms and conditions of the existing Industrial Waste Discharge Permit.

G. Waste Characteristic Change:

Any industrial user who plans or becomes aware of a change in the method of operation or in he Pretreatment facilities which will increase the concentration of Pollutants which are regulated by the Rules or the volume of wastewater discharged to the sewer system, shall notify the Authority of the change at least ninety (90) days prior to such change. If required by the Authority, the industrial user shall apply for an Industrial Waste Discharge Permit that reflects the proposed changes. The new Industrial Waste Discharge Permit will be subject to a fee to reimburse the Authority for all expenses incurred as a result of the processing of the permit. Approval or denial of a new Industrial Waste Discharge Permit shall be regulated by the procedures established hereunder for the issuance of an original permit.

H. Files

The Authority shall maintain files in which copies of all Industrial Waste Discharge Permits, revisions thereto, and supporting data will be filed for reference. Files shall be maintained for a period of at least five (5) years. This period of retention shall be extended during the course of any unresolved litigation regarding the user or the STP or when requested by the Authority, the Director of EPA or the Regional Administrator of EPA.

3.9 Reporting Requirements for Industrial Users

A. Baseline Monitoring Report

1. Where a significant industrial user, subject to the National Categorical Pretreatment Standard, has not previously submitted the baseline monitoring information required by 40 CFR 403.12 (b), the user shall, within 180 days after the promulgation of the applicable National Categorical Pretreatment Standard, provide this information to the Authority. The report shall include all items required by 40 CFR 403.12 (b).
2. A New Source, or a user proposing to discharge wastes into the sewer system that is subject to a National Categorical Pretreatment Standard, shall submit to the Authority the baseline monitoring report required by 40 CFR 403.12 (b) at least 90 days prior to commencement of discharge from the regulated process or facility.

B. Compliance Date Report

Within ninety (90) days following the date for final compliance with applicable National Categorical Pretreatment Standards or, in the case of a New Source, following commencement of the introduction of wastewater into the sewer system, any industrial user subject to National Categorical Pretreatment Standards shall submit to the Authority a report indicating the nature and concentration of all Pollutants in the discharge from the regulated process which are limited by Categorical Standards, and the average and maximum daily flow from these process units in the user's facility which are limited by such Categorical Standards. The report shall state whether the applicable Categorical Standards are being met on a consistent basis and, if not, which additional operations and maintenance and/or Pretreatment are scheduled to bring the user into compliance with the applicable Categorical Standards. This statement shall be signed by an Authorized Representative of the user and certified by a Qualified Professional.

C. Periodic Compliance Reports

1. Each permitted industrial user shall submit to the Authority, during the months of April, July, October and January, or as specified in the user's Industrial Waste Discharge Permit or by the Authority, a complete and accurate report indicating the nature and

concentration of Pollutants in the discharge during the reporting period which are regulated by the Industrial Waste Discharge Permit. All monitoring data obtained for purposes of determining compliance with the Industrial Waste Discharge Permit by certified analytical techniques must be reported by the user. In addition, this report, where applicable, shall include a record of all daily flows which during the reporting period, exceed the maximum daily flow listed in the Industrial Waste Discharge Permit. At the discretion of the Authority and in consideration of such factors as high or low flow rates, holidays, budget cycles, etc., the Authority upon written request from the user, may agree to alter the months during which the above reports are to be submitted. The report shall also contain the following certification statement signed by the Authorized Representative of the user:

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 person or 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.

2. The Industrial wastewater discharged into the sewer system shall be sampled and analyzed by and at the expense of the industrial user, and copies of the original laboratory reports listing the results of the analyses and the analytical methods used shall be submitted to the Authority, with the user's periodic compliance report required in Section 3.10.B.1 of this Article. In cases where the Standard requires compliance with a Best Management Practice or pollution prevention alternative, the user shall submit documentation as required by the Control Authority or the applicable Standards to

determine compliance with the Standard. Frequency of sampling and analyses shall be quarterly, or as specified by the Industrial Waste Discharge Permit or the Authority.

Unless otherwise stated in the Industrial Waste Discharge permit, all samples are to be time composite samples for the period of discharge or for twenty-four (24) hours, whichever is less, with sampling intervals of not more than one (1) hour. The samples shall be analyzed for the substances and characteristics required by the user's Industrial Waste Discharge Permit and shall be representative of the conditions occurring during the reporting period. The user shall follow the proper sample preservation and analysis techniques detailed in 40 CFR 136 or other approved techniques approved by the Authority.

3. All records and information resulting from the monitoring activities required by the Industrial Waste Discharge Permit, including documentation associated with Best Management Practices shall be retained by the industrial user for at least five years. This period of retention shall be extended during the course of any unresolved litigation regarding the user or the STP or when requested by the Authority or the Director of EPA or the Regional Administrator of EPA.

D. Non-complying Discharge Report

If sampling performed by an industrial user indicates a violation of the Rules, an applicable Pretreatment Standard, or the user's Industrial Waste Discharge Permit, the user shall notify the Authority within 24 hours of becoming aware of the violation. The user shall also repeat the sampling and analysis and submit the results of the repeat analysis to the Authority within 30 days after becoming aware of the violation.

3.10 Monitoring Facilities

A. If required by the Authority, Permitted industrial users shall provide, operate and maintain, at their own expense, any facilities necessary for monitoring, compliance, inspection, sampling and flow measurement of its Industrial Waste discharge. The monitoring facility should normally be situated on the

user's premises, but when such a location would be impractical or cause undue hardship on the user, the Authority may allow the facility to be constructed in the public street or sidewalk area and located so that it will not be obstructed by landscaping or parked vehicles, subject to applicable municipal laws of the Municipality.

B. The monitoring facility shall be constructed in accordance with plans and specifications approved by the Authority. There shall be ample room in or near such facility to allow accurate sampling and preparation samples for analysis. The facility, sampling and measuring equipment shall be maintained at all times in a safe and proper operating condition at the expense of the user. The facility shall be located as to be accessible at all times to persons authorized by the Authority. By obtaining an Industrial Waste Discharge Permit, the user consents to the entry upon its land, and agrees to facilitate such entry, by representatives of the Authority, and consents to the use of the monitoring facility for observation, sampling and measuring of the wastewater discharge at all times.

3.11 Inspection and Sampling

The Authority may inspect the facilities of the user. Persons or occupants of premises where wastewater is created or discharged shall allow the Authority or its representative ready access at all reasonable times to all parts of the premises for the purpose of inspection, sampling, records examination and copying or in the performance of any of their duties. The Authority, the relevant Municipality, and EPA shall have the right to set up on the industrial user's property such devices as are necessary to conduct sampling inspection, compliance monitoring and/or metering operations. Where a user has security measures in force which would require proper identification and clearance before entry into their premises, the user shall make necessary arrangements with its security guards so that upon presentation of suitable identification, personnel from the Authority or EPA will be permitted to enter, without delay.

3.12 Pretreatment

A. Users shall provide wastewater treatment and flow-equalizing facilities as necessary to comply with the Rules and shall achieve compliance with all categorical Pretreatment Standards, Local Limits, and the prohibitions set out in Section 2.1 or the Rules within the time limitations specified by EPA, the State or

Manager, whichever is more stringent. Any facilities required to pre-treat or flow-equalize wastewater to a level in compliance with the provisions of the Rules shall be provided, operated, and maintained at the user's sole expense. Detailed plans showing the Pretreatment facilities and operating procedures shall be submitted to the Authority for review before construction of the facility. The review of such plans and operating procedures will in no way relieve the user from the responsibility of modifying the facility as necessary to produce an effluent in compliance with the provisions of the Rules. Any subsequent changes in the Pretreatment facilities, flow-equalizing facilities, or method of operation shall be reported to and approved by the Authority prior to the user's initiation of the changes.

B. An industrial user may allow a bypass which does not cause Pretreatment Standards to be violated, but only for essential maintenance to assure efficient operation. If the user knows in advance of the need for a bypass, it shall submit prior notice to the Authority if possible, at least ten (10) days before the date of the bypass. A user shall give oral notice of an unanticipated bypass that exceeds applicable Pretreatment Standards to the Authority within twenty-four (24) hours from the time the user becomes aware of the bypass.

A written report shall also be provided within five (5) days of the time the user becomes aware of the bypass. The written report shall contain a description of the bypass and its cause; the duration of the bypass, including exact dates and times, and if the bypass has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass.

C. All records relating to compliance with Pretreatment Standards and Pretreatment Requirements shall be made available to officials of the EPA upon request.

D. The Authority shall have access to all such Pretreatments facilities and flow-equalizing facilities are required by the Rules at all reasonable times for purposes of inspection and testing.

E. Either Municipality or other governmental entity to whose sewer system an industrial user is connected shall reimburse the Authority for all of its expenses incurred as a result of review, monitoring,

application processing, sampling, or any other activities conducted by the Authority and directly related to ensuring the industrial user's compliance with the provisions of the Rules.

3.13 Hazardous Waste Discharge Notification

A. An industrial user discharging any quantity of waste to the sewer system, which, if otherwise disposed of, would be an acute hazardous waste under 40 CFR 261, shall provide a one-time notification to the Authority, the EPA Region III Waste Management Division Director, and the State hazardous waste authorities.

B. The notification required by Section 3.14.A of this Article shall include the name of the hazardous waste as set forth in 40 CRF 261, the EPA hazardous waste number, the type of discharge (continuous, batch or other), and a certification that the industrial user has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree it has determined to be economically practical. If the user discharges more than 100 kilograms of such waste in a month to the sewer system, the notification shall also include an identification of the hazardous constituents contained in the waste, an estimation of the mass and concentration of such constituents discharged during the month, and an estimation of the mass of constituents expended to be discharged by the user to the sewer system during the following 12 month period.

C. If an industrial user discharges a non-acute hazardous waste under 40 CFR 261 to the sewer system, the user shall provide the one-time notification described in Section 3.14.B of this Article, if the total mass of hazardous waste discharged to the sewer system during any month exceeds fifteen kilograms.

3.14 Confidential Information

A. Information and data on an industrial user obtained from reports, questionnaires, permit applications, permits, notifications, and monitoring programs and from inspections shall be available to the public or other governmental agency without restriction unless the user specifically requests in writing and is able to demonstrate to the Authority's satisfaction that the release of such information would divulge information, processes or methods of production entitled to protection as trade secrets of the user.

B. When requested by the person furnishing a report, those portions of a report that have been accepted by the Authority as confidential, shall not be made available for inspection by the public but shall be made available upon written request to governmental agencies for uses related to the Rules, the NPDES Permit, State Disposal System permit and/or the State or Federal Pretreatment Programs; provided, however, that such portions of any report shall be available for use by the State or any state agency in judicial review or enforcement proceedings involving the person furnishing the report. Wastewater constituents and characteristics will not be recognized as confidential information.

C. When information accepted by the Authority as confidential is transmitted to any governmental agency by the Authority, a notification to the industrial user shall be provided by the Authority listing the confidential information transmitted, and the governmental entity requesting the information.

3.15 Measuring Volumes of Wastewater

A. The flow volume used to determine wastewater flows and Surcharges shall be specified in the Industrial Waste Discharge Permit and be based on:

1. Direct wastewater metering, or
2. Metered water use, or
3. Such other method acceptable to the Authority.

B. If required by an Industrial Waste Discharge Permit, industrial users shall install and use any meter or measuring device specified therein at the user's own expense. Unless specified otherwise, the Authority shall be responsible for the reading of all meters or measuring devices. The Authority may read the meters from time to time at its discretion. The meters and devices shall be made available for meter reading at any reasonable time. Required meters shall be calibrated annually by a factory certified meter representative.

3.16 Charges and Fees

The Authority may adopt Charges and other fees for implementing and enforcing the pretreatment program. These charges and fees relate solely to the matters covered by the Rules and are separate from any and all other Charges and other fees chargeable by the Authority to which the user is connected.
Such Charges and fees shall include the following:

A. Fees for reimbursement of the costs of setting up and implementing the Industrial Pretreatment Program.

B. Fees for monitoring, inspections, and sampling associated with the Industrial Pretreatment Program;

C. Fees for reviewing accidental discharge procedures and construction plans;

D. Fees for review of permit applications;

E. Fees associated with the review of permit appeals;

F. Fees for consistent removal by the Authority of pollutants otherwise subject to federal pretreatment regulations;

G. Other fees the Authority may deem necessary to carry out the requirements contained herein.

SECTION 4 - ENFORCEMENT

Included in the Rules are the steps and procedures to be taken by the Authority for violation of the Rules, also known as the Authority's Enforcement Response Plan ("ERP"). The ERP is set forth in this Section 4 and the provisions set forth on Exhibit "B" which is incorporated in the Rules.

4.1 Notification of Violation

Wherever the Authority or a Municipality wherein a user is located finds that the user has violated or is violating the Rules, an Industrial Waste Discharge Permit, or any prohibition, limitation or requirements contained herein, or has failed to provide the Manager with the information needed to accurately determine compliance with any Pretreatment Standard or Requirement, or the Authority may, and the Municipality at the direction of the Authority shall, serve upon such a person a written notice of violation. The notice may require a response in the form of a plan, explanation , compliance schedule, or

other appropriate response within a specified time period. Compliance with any such requirement is mandatory.

4.2 Significant Non-compliance

The Authority will publish on an annual basis in a newspaper of general circulation that provides meaningful public notice within the jurisdiction served by the STP a list of those industrial users which, at any time during the previous twelve (12) months, were in Significant Noncompliance as defined in this Article.

4.3 Immediate Suspension by Municipality of Discharge Presenting Imminent Danger by Any User

The Municipality may order the suspension of discharge of wastewater by any user when so directed by the Authority. The Authority may direct such a suspension when such suspension is necessary, in the opinion of the Authority, in order to stop an actual or threatened discharge which presents an imminent danger or harm to people or to the environment or of Interference ("Dangerous Discharge").

Any user notified of an order to suspend shall comply therewith immediately. In the event of a failure of the users to comply voluntarily with the suspension order, the Authority shall taken such steps as it deems necessary, including immediate severance of the sewer connection, to affect the suspension of discharge of the user's wastewater into the sewer system. The Authority shall permit reinstatement of the discharge upon proof satisfactory to itself of the elimination of the imminent and substantial danger referred to above. The user shall submit a detailed written statement to the Authority describing the causes of the actual or threatened discharge and the measures taken to prevent any future occurrence within 15 days of the date of the first such discharge or threat of discharge.

Nothing herein shall be construed to prohibit the Authority from seeking injunctive relief hereunder or at common law or taking other enforcement action in connection with a Dangerous Discharge.

4.4 Termination of Service of Any User

Any user who violates any condition of the Rules, applicable State and Federal regulations or an Industrial Waste Discharge Permit if applicable, is subject, in addition to any civil or criminal penalties which may be imposed, to having its service terminated and/or Industrial Waste Discharge Permit revoked.

4.5 Legal Action by Municipalities

If any user violates the provisions of the Rules, Federal or State, Pretreatment Requirements, or any order related to sewer service of the Municipality wherein the industrial user is located, the Municipality may and, at the direction of the Authority shall, commence an action for appropriate legal and/or equitable relief in the Court of Common Pleas, Montgomery County.

4.6 Civil Penalty Assessment Policy for Industrial Users

The Authority has adopted within its ERP a formal, written civil penalty assessment policy as indicated within Exhibit "B" hereof and which my be modified from time to time and make the same available to the public. Industrial users participating in the pretreatment program established herein shall be given notice of the policy.

4.7 Uses of Civil Penalties Collected by the Authority

Civil penalties collected pursuant hereto shall be placed in a restricted account and shall only be used for the repair of damage and any additional maintenance needed or any additional costs imposed as a result of a violation for which the penalty was imposed, to pay any penalties imposed upon Authority by the federal or state government for violation of Pretreatment Standards, for the costs incurred by the Authority to investigate and take enforcement action that resulted in a penalty being imposed, for the monitoring of discharges in a Pretreatment Program. Funds remaining in the restricted account after the foregoing uses have been met may be used for capital improvements to the STP.

4.8 Procedure for Assessment of Civil Penalties Against Industrial Users

The Authority has adopted civil penalties assessments against any industrial user who violates a provision of the Rules or its Industrial Waste Discharge Permit, that is in Significant Non-compliance, or which fails to respond adequately to any Notice of Violation issued by the Manager, in accordance with the Authority penalty assessment. In assessing such penalties, the Authority shall provide the non-complying user with the opportunity to show cause why a civil penalty pursuant to relevant provisions within Exhibit "B" hereto should not be assessed. Notice shall be served upon the industrial user specifying the time and place of a hearing to be held by the Authority for that purpose.

If the hearing is held, the Authority Board or its designated "hearing officer" (which may be a Board member, its solicitor, consulting engineer or an Authority employee other than the Manager) will conduct the hearing and take evidence thereat, and shall proceed to:

1. Issue in the name of the Authority notices of hearings requesting the attendance and testimony of witnesses and the production of evidence relevant to any matter involved in such hearings;
2. Take the evidence; and
3. Transmit a report of the evidence and hearing including transcripts and other evidence, together with recommendations to the Authority for action thereon.

Testimony at the hearing shall be under oath and recorded. A transcript shall be made available to anyone upon payment of the charges therefore.

After the hearing, if the hearing was before the Board of Authority or, after receipt of the report of evidence and hearing together with the recommendation of the hearing officer, the Authority may assess a civil penalty as set forth in the ERP.

Notice of such assessment shall be sent to the industrial user against whom the assessment has been made together with a description of the applicable appeals process, including the name, address and telephone number of the person responsible for accepting an appeal.

4.9 Injunctions Against Violations of Pretreatment Standards

The Authority may seek injunctive relief against the violation of any Pretreatment Standard in any of the following circumstances:

1. A discharge from an industrial user presents an imminent danger of substantial harm to the STP or the public;
2. A discharge from an industrial user presents an imminent or substantial endangerment to the environment.
3. A discharge from an industrial user causes the Authority to violate any condition of its NPDES permit.

4. An industrial user has shown a lack of ability or intention to comply with a Pretreatment Standard.

The Authority may also seek injunctive relief against any violation of Section 3 hereof or otherwise to the extent permitted by law.

4.10 Right to Appeal

The industrial user may pay either the amount of any assessment, fine, penalty or injunctive relief as provided in the ERP as set forth in the Rules, including Exhibit "B" hereof.

SECTION 5 -VALIDITY

All provisions of the EPA and all other resolutions, rules, and all procedures of the Authority which are inconsistent with this Article of the Rules are hereby invalid to the extent of the inconsistency or conflict.

EXHIBIT B

NORRISTOWN MUNICIPAL WASTE AUTHORITY
PRETREATMENT RULES AND REGULATIONS
ENFORCEMENT RESPONSE PLAN
CIVIL PENALTY ASSESSMENT POLICY

Violation	Circumstance	Penalty Assessment (per day per violation)
Sampling, Monitoring, And Reporting Violations		
Failure to sample, monitor or report information	Continued violation or failure to respond to previous NOV	Up to $1,000;
Failure to notify Authority of Slug Discharge	Isolated or continued violation with no known effects on the public Sewer System	Up to $1000;
Failure to notify Authority of Slug Discharge	Significant violation with known upset or damages to the public Sewer System and/or the environment	Up to $25,000;
Deficiencies in reporting, sampling, or monitoring	Continued violation or failure to respond to previous NOV	Up to $1,000;
Falsification of information in sampling, monitoring or reporting submittals	Evidence of intent or negligence	Up to $25,000;
Inadequate record keeping, files missing or incomplete	Continued violation; or delayed or inadequate response to previous NOV	Up to $1,000;
Effluent Limits Violations		
Violation of local or categorical pretreatment limits, or violation of best management practices requirement	Inadequate response to previous NOV, or continued violation not considered a Significant Violation and/or does not result in the user being considered in Significant Noncompliance ("SNC")	Up to $1,000;
Violation of local or categorical pretreatment limits, or violation of best management practices requirement	Violation(s) classified as Significant Violation or which results in the user being considered in SNC;	Up to $25,000;
Compliance Schedule Violations		
Missed interim or major milestone date;	Reporting violation, or delayed or inadequate response to previous NOV, or delays which will cause lateness in other interim dates;	Up to $1,000;

Violation	Circumstance	Penalty Assessment (per day per violation)
Unauthorized Discharge		
Discharge without a permit or Authority approval	Continued violations with no known upset or damages to the Authority's wastewater treatment facilities and/or environment or inadequate response to previous NOV	Up to $25,000;
Discharge without a permit or Authority approval	Isolated or continued discharge resulting in a Significant Violation	Up to $25,000;
Failure to Submit a sewer discharge permit application	Reporting violation; industrial user has failed to submit a sewer discharge permit application within the allotted thirty (30) calendar days. There is no known interference or damage to the Authority's wastewater treatment facilities and/or the environment	Up to $1,000;
Noncompliance Violations Detected Through Field Inspections		
Entry denial, coping or records denied	Any instance	Up to $1,000;
Unintentional violation of sampling procedures, including failure to follow proper sampling location, type or collection techniques	Any instance	Up to $1,000;
Proven intentional violation of procedures, including failure to follow proper sampling location, type or collection techniques	Any instance	Up to $25,000;

EXHIBIT B

NORRISTOWN MUNICIPAL WASTE AUTHORITY
PRETREATMENT RULES AND REGULATIONS
ENFORCMENT RESPONSE PLAN
ENFORCEMENT ACTION

1.0 SAMPLING, MONITORING AND REPORTING VIOLATIONS

1.1 **Noncompliance** – Failure to sample, monitor, or report required information during specified time frames;

Circumstances – Isolated violation; or delayed response which is received after notification of the industrial user by the Authority;

Response – A Notice of Violation ("NOV") is mailed via certified mail by the Authority's Industrial Pretreatment Program Coordinator to the industrial user requiring a written explanation for the violation along with the missing report within thirty (30) calendar days of the certified receipt of the NOV.

1.2 **Noncompliance** – Failure to sample, monitor, or report required information during specified time frames;

Circumstances – Continued violation; and/or failure to respond to a previous NOV that may also result in user being in SNC;

Response – A NOV is mailed via certified mail by the Authority's Industrial Pretreatment Program Coordinator to the industrial user requiring attendance at a Show-Cause Hearing.

If no response is received within fifteen (15) calendar days of the certified receipt of the NOV, an Administrative Order is issued to the industrial user by the Authority's Solicitor ordering an immediate halt to such violation(s) along with the requirement that the user provide a written explanation for the violation and how it will be corrected within fifteen (15) calendar days of the certified receipt of the Order.

Depending on the circumstances of the violation, proceedings to initiate a civil or criminal legal action, including penalties up to $1,000 per day per violation, may also be commenced.

For users in SNC at any time during the year the following will also apply: The Authority will publish on an annual basis in a newspaper(s) of general circulation that provides meaningful public notice within the jurisdiction(s) served by the WWTP a list of those industrial users which, at any time during the previous 12 months, were in SNC.

1.3 **Noncompliance** – Failure to notify the Authority of a slug discharge or significant change in operating and/or discharge conditions;

Circumstances – Isolated violation with no known effects on the Authority's wastewater treatment facilities;

Response – A NOV is mailed via certified mail by the Authority's Industrial Pretreatment Program Coordinator to the industrial user requiring a written explanation for the violation within five (5) calendar days of the certified receipt of the NOV.

Depending on the circumstances of the violation, proceedings to initiate a civil or criminal legal action, including penalties up to $1,000 per day per violation, may also be commenced.

1.4 **Noncompliance –** Failure to notify the Authority of a slug discharge or significant change in operating and/or discharge conditions;

Circumstances – Continued violation with no known effects on the Authority's wastewater treatment facilities; and/or delayed or inadequate response to previous NOV that may also result in user being in SNC;

Response – A NOV is mailed via certified mail by the Authority's Industrial Pretreatment Program Coordinator to the industrial user requiring attendance at a Show-Cause Hearing.

If no response is received within fifteen (15) calendar days of the certified receipt of the NOV, an Administrative Order is issued to the industrial user by the Authority's Solicitor ordering an immediate halt to such violation(s) along with the requirement that the user provide a written explanation for the violation and how it will be corrected within fifteen (15) calendar days of the certified receipt of the Order.

Depending on the circumstances of the violation, proceedings to initiate a civil or criminal legal action, including penalties up to $1,000 per day per violation, may also be commenced.

For user in SNC at any time during the year the following will also apply: The Authority will publish on an annual basis in a newspaper(s) of general circulation that provides meaningful public notice within the jurisdiction(s) served by the WWTP a list of those industrial users which, at any time during the previous 12 months, were in SNC.

1.5 **Noncompliance –** Failure to notify the Authority of a slug discharge or significant change in operating and/or discharge conditions;

Circumstances – Significant Violation with known upset or damages to the Authority's wastewater treatment facilities and/or the environment;

Response – An Administrative Order is mailed via certified mail by the Authority's Solicitor to the industrial user ordering an immediate halt to such violation(s) along with the requirement that the user provide a written explanation for the violation and how it will be corrected, within five (5) calendar days of the certified receipt of the Order.

Depending on the circumstances of the violation, proceedings to initiate a civil legal action, including penalties of up to $25,000 per day per violation, or monetary costs equal to those needed for repairing any damage incurred to the Authority's wastewater treatment facilities as a result of the violation will also be commenced by the Solicitor.

1.6 **Noncompliance –** Deficiencies in reporting, sampling, or monitoring such as missing information, incomplete reports, uncertified data, etc.;

Circumstances – Isolated violations;

Response – A NOV is mailed via certified mail by the Authority's Industrial Pretreatment Program Coordinator to the industrial user requiring a written explanation for the delinquency along with corrective actions to be taken within thirty (30) calendar days of the certified receipt of the NOV.

1.7 **Noncompliance –** Deficiencies in reporting, sampling, or monitoring, such as missing information, incomplete reports, uncertified data, etc.;

Circumstances – Continued violation; or delayed or inadequate response to previous NOV that may also result in user being in SNC;

Response – A NOV is mailed via certified mail by the Authority's Industrial Pretreatment Program Coordinator to the industrial user requiring attendance at a Show-Cause Hearing.

If no response is received within thirty (30) calendar days of the certified receipt of the NOV, an Administrative Order is mailed via certified mail by the Authority's Solicitor ordering an immediate halt to such violation(s) along with the requirement that the user provide a written explanation for the violation and how it will be corrected within fifteen (15) calendar days of the certified receipt of the Order.

Depending on the circumstances of the violation, proceedings to initiate a civil or criminal legal action, including penalties up to $1,000 per day per violation, may also be commenced.

For users in SNC at any time during the year the following will also apply: The Authority will publish on an annual basis in a newspaper(s) of general circulation that provides meaningful public notice within the jurisdiction(s) served by the WWTP a list of those industrial users which, at any time during the previous 12 months, were in SNC.

1.8 **Noncompliance –** Falsification of information in sampling, monitoring, or reporting submittals;

Circumstances – Evidence of intent or negligence;

Response – An Administrative Order is mailed via certified mail by the Authority's Solicitor to the industrial user ordering an immediate halt to such violation(s) along with the requirement that the user provide a written explanation for the violation and how it will be corrected, within five (5) calendar days of the certified receipt of the Order.

If no response is received within five (5) calendar days of the certified receipt of the Order proceedings to initiate a civil or criminal legal action, including penalties up to $25,000 per day per violation, or calculated using EPA's Guidance for Calculating Economic Benefit of Noncompliance, and possible suspension/termination of services will be commenced by the Authority's Solicitor.

1.9 **Noncompliance –** Inadequate record keeping, files missing or incomplete;

Circumstances – Isolated violation;

Response – An NOV is mailed via certified mail by the Authority's Industrial Pretreatment Program Coordinator to the industrial user requiring an immediate written explanation for the violation(s) and how it will be corrected within thirty (30) calendar days of the certified receipt of the NOV.

1.10 **Noncompliance –** Inadequate record keeping, files missing or incomplete;

Circumstances – Continued violation; or delayed or inadequate response to previous NOV;

Response – A NOV is mailed via certified mail by the Authority's Industrial Pretreatment Program Coordinator to the industrial user requiring attendance at a Show-Cause Hearing.

If no response is received within fifteen (15) calendar days of the certified receipt of the NOV, an Administrative Order is mailed via certified mail by the Authority's Solicitor to the industrial user ordering an immediate halt to such violation(s) along with the requirement that the user provide a written explanation for the violation and how it will be corrected within fifteen (15) days calendar days of the certified receipt of the Order. Proceedings to initiate a civil or criminal legal action, including penalties up to $1,000 per day per violation, may also be commenced.

2.0 EFFLUENT LIMITS VIOLATIONS

2.1 **Noncompliance –** Violation of local or categorical pretreatment limits, or violation of best management practices requirement;

Circumstances – Isolated violation;

Response – A NOV is mailed via certified mail by the Authority's Industrial Pretreatment Program Coordinator to the industrial user requiring an immediate written explanation for the violation. The user is also required to re-sample the discharge and submit these results within thirty (30) days of becoming aware of the violation.

2.1 **Noncompliance –** Violation of local or categorical pretreatment limits, or violation of best management practices requirements;

Circumstances – Inadequate response to previous NOV, or continued violation not considered a Significant Violation and/or does not result in the user being considered in Significant Noncompliance ("SNC");

Response – A NOV is mailed via certified mail by the Authority's Industrial Pretreatment Program Coordinator to the industrial user requiring attendance at a Show-Cause Hearing.

If no response is received within thirty (30) calendar days of the certified receipt of the NOV, proceedings to initiate a civil legal action, including penalties of up to $1,000 per day per violation, and possible termination of services will be commenced by the Authority's Solicitor.

2.2 **Noncompliance –** Violation of local or categorical limits, or violation of best management practices requirement;

Circumstances – Violation(s) classified as Significant Violation or which results in the user being considered in SNC;

Response – An Administrative Order is mailed via certified mail by the Authority's Solicitor to the industrial user requiring the user to provide a written explanation for the violation(s) and how it will be corrected within fifteen (15) calendar days of the certified receipt of the NOV. The order may contain a time schedule by which the user must achieve compliance.

If no response is received within fifteen (15) calendar days of the certified receipt of the Order proceedings to initiate a civil or criminal legal action, including penalties up to $25,000 per day per violation, or calculated using EPA's Guidance for Calculating the Economic Benefit of Noncompliance, and possible suspension/termination of services will be commenced by the Authority's Solicitor.

For users in SNC at any time during the year the following will also apply: The Authority will publish on an annual basis in a newspaper(s) of general circulation that provides meaningful public notice within the jurisdiction(s) served by the WWTP a list of those industrial users which, at any time during the previous 12 months, were in SNC.

3.0 COMPLIANCE SCHEDULE VIOLATIONS

3.1 **Noncompliance –** Missed interim or major milestone date;

Circumstance – Reporting violation which will not cause lateness in other interim dates;

Response – A NOV is mailed via certified mail by the Authority's Industrial Pretreatment Program Coordinator to the industrial user requiring an immediate written explanation for the delinquency along with the items required.

If no response is received within thirty (30) calendar days of the certified receipt of the NOV, an Administrative Order is mailed via certified mail by the Authority's Solicitor to the industrial user ordering an immediate halt to such violation(s) along with the requirement that the user provide a written explanation for the violation and how it will be corrected within fifteen (15) calendar days of the certified receipt of the Order.

3.2 **Noncompliance –** Missed interim or major milestone date;

Circumstances – Reporting violation, or delayed or inadequate response to previous NOV, or delays which will cause lateness in other interim dates;

Response – A NOV is mailed via certified mail by the Authority's Industrial Pretreatment Program Coordinator to the industrial user requiring an immediate written explanation for the delinquency along with the required items within fifteen (15) calendar days of the certified receipt of the NOV. In this response, the user must also provide a specific date when the elapsed date will be met and the probability of meeting the next scheduled requirement.

If no response is received within fifteen (15) calendar days of the certified receipt of the NOV proceedings to initiate a civil or criminal legal action, including penalties up to $1,000 per day per violation, or calculated using EPA's Guidance for Calculating the Economic Benefit of Noncompliance, and possible suspension/termination of services will be commenced by the Authority's Solicitor.

4.0 UNAUTHORIZED DISCHARGE

4.1 **Noncompliance –** Discharge without a permit or Authority approval;

Circumstances – Isolated violation with no known upset or damages to the Authority wastewater treatment facilities or the environment;

Response – A sewer discharge permit application is issued to the industrial user by the Authority's Industrial Pretreatment Program Coordinator that is to be completed and submitted to the Authority for approval within thirty (30) calendar days of discovery of the unauthorized discharge.

4.2 **Noncompliance –** Discharge without a permit or Authority approval;

Circumstances – Continued violations with no known upset or damages to the Authority's wastewater treatment facilities and/or environment; or inadequate response to previous NOV;

Response – A NOV along with a sewer discharge permit application is mailed via certified mail to the industrial user by the Authority's Industrial Pretreatment Program Coordinator that is to be completed and submitted to the Authority for approval within fifteen (15) calendar days of the certified receipt of the NOV. Proceedings to initiate a civil or criminal legal action, including penalties up to $25,000 per day per violation, may also be commenced.

4.3 **Noncompliance –** Discharge without a permit or Authority approval;

Circumstances – Isolated or continued discharge resulting in a Significant Violation;

Response – An Administrative order is mailed via certified mail by the Authority's Solicitor to the industrial user within five (5) calendar days of the incident requiring an immediate halt to the discharge and a written explanation for the unauthorized discharge.

Depending on the circumstances of the violation, proceedings to initiate a civil or criminal legal action, including penalties of $25,000 per day per violation or monetary costs equal to the damages incurred at the Authority's wastewater treatment facilities, will also be commenced by the Authority's Solicitor. Sewer discharge privileges in the form of a sewer discharge permit are also delayed until proper application forms are submitted and approved by the Authority and all fines are paid in full by the violator. The Authority's Solicitor will also discuss the violation with the Attorney's Office to determine if criminal charges are warranted.

4.4 **Noncompliance –** Failure to submit a sewer discharge permit application;

Circumstances – Reporting violation; industrial user has failed to submit a sewer discharge permit application within the allotted thirty (30) calendar days. There is no known interference or damage to the Authority's wastewater treatment facilities and/or the environment;

Response – An Administrative Order is mailed via certified mail by the Authority's Solicitor to the industrial user. If no application is received within fifteen (15) calendar days of the certified receipt of the Order, proceedings to initiate a civil or criminal legal action, including penalties up to $1,000 per day per violation, will commence.

5.0 NONCOMPLIANCE VIOLATIONS DETECTED THROUGH FIELD INSPECTIONS

5.1 **Noncompliance –** Entry denial, coping of records, denied;

Circumstances – Any instance;

Response – Proceedings to initiate immediate judicial action in the form of a warrant will be taken against the industrial user by the Authority's Solicitor and Attorney's Office;

Depending on the circumstances of the violation, proceedings to initiate a civil or criminal legal action, including penalties up to $1,000 per day per violation, may also be commenced.

5.2 **Noncompliance –** Unintentional violation of sampling procedures, including failure to follow proper sampling location, type or collection techniques;

Circumstances – Any instance;

Response – A NOV is mailed via certified mail by the Authority's Industrial Pretreatment Program Coordinator to the industrial user requiring an immediate written explanation for the violation and a plan of action to amend the violation within thirty (30) calendar days of the certified receipt of the NOV.

Depending on the circumstances of the violation, proceedings to initiate a civil or criminal legal action, including penalties up to $1,000 per day per violation, may also be commenced.

5.3 **Noncompliance –** Proven intentional violation of procedures, including failure to follow proper sampling locations, type or collection techniques;

Circumstance – Any instance;

Response – An Administrative Order is mailed via certified mail by the Authority's Solicitor to the industrial user ordering an immediate halt to such violation(s) along with the requirement that the user provide a written explanation for the violation and how it will be corrected within fifteen (15) calendar days of the certified receipt of the Order. If conditions are not adhered to, proceedings to initiate civil or criminal legal action, including penalties of $25,000 per day per violation or equal to the cost of repairing any damages to the treatment facilities as a result of the violation(s), will be commenced.

APPENDIX D

INDUSTRIAL PRETREATMENT PROGRAM ANNUAL REPORT

NPDES FORM 6100-049	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 Pretreatment Annual Report	FORM Approved OMB No. 2040-0004 Expires on 07/31/2026

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with EPA NPDES regulations (40 CFR 503.18, 503.28, and 503.48). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The estimated time per POTW to prepare and submit this annual report is 40 hours. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Annual Report Information —

Reporting Period Year: 2024

First Day of Reporting Period: 01/01/2024 **Last Day of Reporting Period:** 12/31/2024

Annual Report Due Date: 03/31/2025

Permit Information —

Approved Pretreatment Program

Permittee Name:	NPDES ID:	Permit Effective Date:	Permit Expiration Date:	Permit Status:	Pretreatment Program Indicator:
Norristown Muni Waste Auth Montgomery Cnty	PA0027421	11/01/2018	10/31/2023	Expired	Approved

Permittee Street Address:
235 E Airy St

Permittee City: Norristown

Permittee State: Pennsylvania

Permittee ZIP/Postal Code: 19401

POTW Facility Information

Facility Site Name: Norristown Muni Stp

Facility Site Street Address: 368 E Washington St

Facility Site City: Norristown

Facility Site State: Pennsylvania

Facility Site ZIP/Postal Code: 19401

Facility Site County or Similar Division:

Contact Information —

Pretreatment Annual Report Point of Contact

First Name: Shane **Middle Initial:** **Last Name:** Van Buskirk
Title: Operations Manager (Licensed Operator)
Phone: 610-272-7418 **Ext.:** **Contact Fax:**
Email: shane@norristownsewer.org

Mailing address for POC is different from permittee address: No

Pretreatment Annual Report Certifier

Will the pretreatment annual report be certified by a duly authorized employee as described in 40 CFR §403.12(m) <https://www.ecfr.gov/current/title-40/section-403.12#p-403.12(m)>**?** Yes

→ **Has the duly authorized employee submitted the written authorization to the Approval Authority as required?** Yes

Additional Pretreatment Contact(s)

Are there any additional pretreatment contacts? Yes

→ **List additional Pretreatment personnel. You must list at least one contact.**

First Name: Barry
Last Name: Thompson
Title: Executive Director
Phone: 610-270-3190
Email: barry@norristownsewer.org
Other Information:

First Name: Cory
Last Name: Salmon
Title: Authority IPP Manager
Phone: 484-460-7050
Email: csalmon@hrg-inc.com
Other Information:

First Name: Michael
Last Name: Vital
Title: Staff Engineer
Phone: 484-460-7050
Email: mvital@hrg-inc.com
Other Information:

First Name: Ella
Last Name: Quinn
Title: Staff Engineer
Phone: 484-460-7050
Email: equinn@hrg-inc.com
Other Information:

Pretreatment Program Resources Information —

Program Resources

Number of Pretreatment Full-time Equivalents (FTEs): 8

Were there significant changes (+/- 20%) to the pretreatment program budget or staffing? No

Source of Budget: Municipal

Total Pretreatment Program Budget: $20000

Jurisdictions Covered By Pretreatment Program:

Jurisdiction:	Norristown Municipality
Jurisdiction:	West Norriton Township
Jurisdiction:	Plymouth Township

Adequate delegation in each jurisdiction by inter-jurisdictional agreement or similar legal mechanism? Yes

Did you receive any additional support that was not part of FTE during the reporting period? No

Were there any miscellaneous developments and special initiatives? No

NPDES ID: PA0027421 **Facility Site Name:** Norristown Muni Stp

POTW Information

NPDES Effluent Violations

Were there any NPDES effluent violations? No

Wastewater Treatment Processes

Preliminary Treatment:
Flow measurement
Headworks – bar screening
Grit removal
Other
→ **Enter description of other:** Pre-aeration

Tertiary Treatment:
Other
→ **Enter description of other:** Final Clarifiers

Solids Thickening/Dewatering:
Belt Press

Primary Treatment:
Clarification

Nutrient Removal:
Chemical phosphorus removal

Solids Stabilization:
Anaerobic digestion

Secondary Treatment:
Activated sludge

Disinfection:
Chlorination/dechlorination

Sludge Disposal/Management:
Landfill

POTW Flow and Capacity

POTW Design Flow (mgd): 9.75

POTW Organic (BOD/CBOD) Design Capacity (lbs/day): 34540

POTW TSS Design Capacity (lbs/day): N/A

POTW Ammonia (NH3) Design Capacity (lbs/day): N/A

POTW Actual Flow (mgd): 5.03

Total SIU Flow (mgd): 0.0078

% Industrial Flow (between 0 - 100): 0.16

Actual or Estimated Total Flow for Commercial (Non-SIU) Dischargers (mgd): 0

Wastewater Surcharges

Did the POTW surcharge for any parameters during the reporting period? No

Industrial User Information

Permitted SIUs/CIUs

NPDES ID: PAPIU005V **SIU/CIU Name:** Pennsylvania American Water Company (PAWC) **IU Type:** NSCIU

Control Mechanism No.:	NMWA-02		
Permit Type:	Individual	**Average Daily Process Wastewater Flow Rate (gpd):**	6357
Permit Effective Date:	08/01/2022	**Average Daily Facility Wastewater Flow Rate (gpd):**	500
Permit Expiration Date:	07/31/2025	**Zero Discharge?**	No
Permit Termination Date:		**Was There a Substantial Change to IU's Discharge?**	No
Permit Issuing Organization:	Local	**Submitted Notification of Changed Discharge?**	N/A

Jurisdiction:	Norristown Municipality	**CIU Categorical Pretreatment Standard Citation:**	non categorical
Permit Status as of End of Reporting Period:	Effective	**Subject to Local Limits?**	Yes
Months Left Until Permit Expiration Date:	7	**Are the Local Limits More Stringent Than Categorical Standards?**	No
		MTCIU Subject to Reduced Reporting?	N/A
SIU/CIU Mailing Address:	171 Johnson Highway	**NSCIU Consistently Complied w/All Applicable Categorical Pretreatment Standards?**	Yes
SIU/CIU City:	Norristown	**NSCIU Annual Compliance Certification Submitted?**	Yes
SIU/CIU State:	Pennsylvania	**NSCIU Never Discharged Untreated Concentrated Wastewater?**	Yes
SIU/CIU ZIP/Postal Code:	19401		
		Subjected to Enforceable Compliance Schedule(s)?	No
		Unknown Compliance Status?	No
Facility Site Name:	Pennsylvania American Water Company	**Number of IU Inspections Conducted by Control Authority:**	1
Facility Site Address:	300 W Washington St	**Number of IU Sampling Events by Control Authority:**	1
Facility Site City:	Norristown	**Number of Required IU Self-Monitoring Sampling Events:**	2
Facility Site State:	Pennsylvania	**Complied w/Required Self-Monitoring Requirements & Reporting?**	Yes
Facility Site ZIP/Postal Code:	19401	**In SNC?**	No
Facility Type Ownership:	Corporation	**Number of NOVs:**	0
		Formal Enforcement Actions Issued?	No
		Informal Enforcement Actions Issued?	No
SIU/CIU Industry Description:	Water treatment plant - discharges domestic wastewater and wastewater (process) flow discharged from centrifuges onsite to the NMWA WWTP	**Number of Civil Suits Filed Against SIU/CIU:**	0
Primary SIC Code:	4941	**Number of Criminal Suits Filed Against SIU/CIU:**	0
Primary NAICS Code:	221310	**Total Amount of Penalties Assessed ($):**	0
Additional SIC Code(s):		**Total Amount of Penalties Collected ($):**	0
Additional NAICS Code(s):			

NPDES ID: PAPIU005W **SIU/CIU Name:** von C Brewing Company (von C) **IU Type:** NSCIU

Control Mechanism No.:	NMWA-03		
Permit Type:	Individual	**Average Daily Process Wastewater Flow Rate (gpd):**	97
Permit Effective Date:	10/01/2022	**Average Daily Facility Wastewater Flow Rate (gpd):**	846
Permit Expiration Date:	09/30/2025	**Zero Discharge?**	No
Permit Termination Date:		**Was There a Substantial Change to IU's Discharge?**	No
Permit Issuing Organization:	Local	**Submitted Notification of Changed Discharge?**	N/A
Jurisdiction:	Norristown Municipality	**CIU Categorical Pretreatment Standard Citation:**	Non-Categorical
Permit Status as of End of Reporting Period:	Effective	**Subject to Local Limits?**	Yes

Months Left Until Permit Expiration Date:	9	**Are the Local Limits More Stringent Than Categorical Standards?**	No
		MTCIU Subject to Reduced Reporting?	N/A
SIU/CIU Mailing Address:	1210 Stanbridge St, Suite 300	**NSCIU Consistently Complied w/All Applicable Categorical Pretreatment Standards?**	No
SIU/CIU City:	Norristown	**NSCIU Annual Compliance Certification Submitted?**	Yes
SIU/CIU State:	Pennsylvania	**NSCIU Never Discharged Untreated Concentrated Wastewater?**	Yes
SIU/CIU ZIP/Postal Code:	19401		
		Subjected to Enforceable Compliance Schedule(s)?	No
		Unknown Compliance Status?	No
Facility Site Name:	von C Brewing Company	**Number of IU Inspections Conducted by Control Authority:**	1
Facility Site Address:	1210 Stanbridge St, Suite 300	**Number of IU Sampling Events by Control Authority:**	1
Facility Site City:	Norristown	**Number of Required IU Self-Monitoring Sampling Events:**	3
Facility Site State:	Pennsylvania	**Complied w/Required Self-Monitoring Requirements & Reporting?**	Yes
Facility Site ZIP/Postal Code:	19401	**In SNC?**	No
Facility Type Ownership:	Privately Owned Facility	**Number of NOVs:**	1
		Formal Enforcement Actions Issued?	No
		Informal Enforcement Actions Issued?	Yes
SIU/CIU Industry Description:	Brewery - Discharges domestic wastewater and wastewater (process) produced from brewing process to NMWA WWTP.	**Number of Civil Suits Filed Against SIU/CIU:**	0
Primary SIC Code:	5181	**Number of Criminal Suits Filed Against SIU/CIU:**	0
Primary NAICS Code:	312120	**Total Amount of Penalties Assessed ($):**	0
Additional SIC Code(s):		**Total Amount of Penalties Collected ($):**	0
Additional NAICS Code(s):			

NPDES ID: PAPIU005X **SIU/CIU Name:** Busch Vacuum Solutions (Busch LLC) **IU Type:** NSCIU

Control Mechanism No.:	NMWA-08		
Permit Type:	Individual	**Average Daily Process Wastewater Flow Rate (gpd):**	0
Permit Effective Date:	03/01/2024	**Average Daily Facility Wastewater Flow Rate (gpd):**	275
Permit Expiration Date:	02/28/2027	**Zero Discharge?**	Yes
Permit Termination Date:		**Was There a Substantial Change to IU's Discharge?**	Yes
Permit Issuing Organization:	Local	**Submitted Notification of Changed Discharge?**	No
Jurisdiction:	West Norriton Township	**CIU Categorical Pretreatment Standard Citation:**	non categorical
Permit Status as of End of Reporting Period:	Effective	**Subject to Local Limits?**	Yes
Months Left Until Permit Expiration Date:	26	**Are the Local Limits More Stringent Than Categorical Standards?**	No
		MTCIU Subject to Reduced Reporting?	N/A

SIU/CIU Mailing Address:	2450 Boulevard of the Generals	**NSCIU Consistently Complied w/All Applicable Categorical Pretreatment Standards?**	No
SIU/CIU City:	Norristown	**NSCIU Annual Compliance Certification Submitted?**	No
SIU/CIU State:	Pennsylvania	**NSCIU Never Discharged Untreated Concentrated Wastewater?**	No
SIU/CIU ZIP/Postal Code:	19403		
		Subjected to Enforceable Compliance Schedule(s)?	Yes
		Unknown Compliance Status?	No
Facility Site Name:	Busch LLC	**Number of IU Inspections Conducted by Control Authority:**	2
Facility Site Address:	2450 Boulevard of the Generals	**Number of IU Sampling Events by Control Authority:**	2
Facility Site City:	Norristown	**Number of Required IU Self-Monitoring Sampling Events:**	1
Facility Site State:	Pennsylvania	**Complied w/Required Self-Monitoring Requirements & Reporting?**	No
Facility Site ZIP/Postal Code:	19403	**In SNC?**	No
Facility Type Ownership:	Corporation	**Number of NOVs:**	1
		Formal Enforcement Actions Issued?	No
		Informal Enforcement Actions Issued?	Yes
SIU/CIU Industry Description:	Repair Service - Discharges domestic wastewater to NMWA WWTP. Previously used to discharge wastewater (process) produced from remanufacturing of industrial vacuum pump equipment to NMWA WWTP.	**Number of Civil Suits Filed Against SIU/CIU:**	0
Primary SIC Code:	7699	**Number of Criminal Suits Filed Against SIU/CIU:**	0
Primary NAICS Code:	811310	**Total Amount of Penalties Assessed ($):**	0
Additional SIC Code(s):		**Total Amount of Penalties Collected ($):**	0
Additional NAICS Code(s):			

SIU/CIU Permits Nearing Permit Expiration Date

SIU/CIU Name: Pennsylvania American Water Company (PAWC)	**IU Type:** NSCIU	**NPDES ID:** PAPIU005V
Permit Status as of End of Reporting Period:	Effective	**Months Left Until Permit Expiration Date:** 7
Explanation and Time Frame for Permit Renewal:	Pennsylvania American Water Company has submitted their permit renewal application on 1/31/2025 and the NMWA are in the process of reviewing the permit application.	
SIU/CIU Name: von C Brewing Company (von C)	**IU Type:** NSCIU	**NPDES ID:** PAPIU005W
Permit Status as of End of Reporting Period:	Effective	**Months Left Until Permit Expiration Date:** 9
Explanation and Time Frame for Permit Renewal:	The von C Brewing Company is required to submit their permit renewal application on 4/3/2025. When received, the NMWA will review the permit application and act accordingly.	

Permitted Non-SIUs

No permitted Non-SIUs during the reporting period.

Hauled Waste Information

Hauled Waste Discharges

Did the POTW receive any hauled waste discharges during the reporting period? No

Hauled Waste Received

Did the POTW believe illegal dumping may be occurring in its jurisdiction? No

Dental Office Compliance Information

EPA Dental Amalgam Rule

Number of dental facilities in service area that discharge wastewater to the POTW:	9
Number of dental facilities not subject to the EPA Dental Amalgam Rule:	1
Number of dental facilities subject to the EPA Dental Amalgam Rule:	8
Number of dental facilities subject to the EPA Dental Amalgam Rule that do not place or remove amalgam except in limited emergency or unplanned, unanticipated circumstances:	0
Number of dental facilities that place or remove amalgam and are subject to the EPA Dental Amalgam Rule that are in compliance:	8
Number of dental facilities required to submit a one-time compliance report as required by the EPA Dental Amalgam Rule:	8
Number of required one-time compliance reports received:	8
Number of enforcement actions (i.e. informal, formal, NOVs) issued:	0

Pass Through/Interference Information

Pass Through and Interference

Were there any instances of pass through at the POTW?	No
Were there any instances of interference at the POTW?	No
Did the POTW receive notification of the discharge of any hazardous waste?	No

Sludge Disposal

Did the POTW dispose of sewage sludge? Yes
Did the POTW have any disruptions in managing biosolids? No

Enforcement Actions and Significant Noncompliance

Does the Enforcement Response Plan (ERP) include escalating enforcement actions for Significant Noncompliance (SNC)? Yes

IU Name: von C Brewing Company (von C) **NPDES ID:** PAPIU005W **IU Type:** NSCIU

Total Notice of Violations (NOVs) during reporting period:	1
Formal Enforcement Actions issued during the reporting year?	No
Informal Enforcement Actions issued during the reporting year?	Yes
Was IU in SNC at any time during the reporting year?	No
Was subject to one or more enforceable compliance schedules during the reporting period?	No

Enforcement Actions

Notice of Violation

Date of Noncompliance: 03/15/2024 **Date of NOV:** 06/11/2024 **Return to Compliance Date:** 06/30/2025
Type of Enforcement Action: Notice of Violation
Violation that Triggered NOV: von C's Quarter 1 sampling result for BOD5 parameter was reported at 436 mg/L which exceeded the permitted discharge concentration of 250 mg/L.
Is IU back in Compliance? No
Explain How IU was/will be Returned to Compliance: Refer to the Additional Supporting Information - von C Brewing document.

Formal Enforcement Actions

The data entered into the *Industrial User Information section* indicates this IU did not have any formal enforcement actions issued during the reporting period.

Informal Enforcement Actions

Date of Noncompliance: 03/15/2024 **Date of Informal Enforcement Action:** 06/11/2024 **Return to Compliance Date:** 06/30/2025
Type of Informal Enforcement Action: Letter **Description of Other Informal Enforcement Action:** N/A
Violation that Triggered Informal Enforcement Action: von C's Quarter 1 sampling result for BOD5 parameter was reported at 436 mg/L which exceeded the permitted discharge concentration of 250 mg/L.
Is IU back in Compliance? No
Explain How IU was/will be Returned to Compliance: Refer to the Additional Supporting Information - von C Brewing document.

Significant Noncompliance

This Industrial User was not in SNC during the reporting period. No additional SNC information is required.

Public Notification

This Industrial User was not in SNC during the reporting period. No public notification in a newspaper is required for this IU.

IU Name: Busch Vacuum Solutions (Busch LLC) **NPDES ID:** PAPIU005X **IU Type:** NSCIU

Total Notice of Violations (NOVs) during reporting period:	1
Formal Enforcement Actions issued during the reporting year?	No
Informal Enforcement Actions issued during the reporting year?	Yes
Was IU in SNC at any time during the reporting year?	No
Was subject to one or more enforceable compliance schedules during the reporting period?	Yes

Enforcement Actions

Notice of Violation

Date of Noncompliance: 04/30/2024 **Date of NOV:** 06/11/2024 **Return to Compliance Date:** 05/31/2025
Type of Enforcement Action: Notice of Violation
Violation that Triggered NOV: Refer to the Additional Supporting Information - Busch LLC document.
Is IU back in Compliance? No
Explain How IU was/will be Returned to Compliance: Note that the facility has not returned to compliance, but there is no option to leave the return to compliance option as blank. Refer to the Additional Supporting Information - Busch LLC document.

Formal Enforcement Actions

The data entered into the *Industrial User Information section* indicates this IU did not have any formal enforcement actions issued during the reporting period.

Informal Enforcement Actions

Date of Noncompliance: 04/30/2024 **Date of Informal Enforcement Action:** 08/20/2024 **Return to Compliance Date:** 05/31/2025
Type of Informal Enforcement Action: Inspection, Phone Call, Email **Description of Other Informal Enforcement Action:** N/A
Violation that Triggered Informal Enforcement Action: Refer to the Additional Supporting Information - Busch LLC document.
Is IU back in Compliance? No
Explain How IU was/will be Returned to Compliance: Note that the facility has not returned to compliance, but there is no option to leave the return to compliance option as blank. Refer to the Additional Supporting Information - Busch LLC document.

Significant Noncompliance

This Industrial User was not in SNC during the reporting period. No additional SNC information is required.

Public Notification

This Industrial User was not in SNC during the reporting period. No public notification in a newspaper is required for this IU.

Compliance Monitoring Information —

Self-Monitoring

	SIU	CIU	MTCIU	NSCIU	Non-SIU	Total
Number of IUs with self-monitoring requirements during the reporting period	0	0	0	3	N/A	3
Number of IUs who complied with self-monitoring requirements during the reporting period	0	0	0	2	N/A	2
Number of IUs without self-monitoring requirements during the reporting period	0	0	0	0	N/A	0

→ **Provide more information about IUs who did not comply with self-monitoring requirements:** see report attached

Inspections

	SIU	CIU	MTCIU	NSCIU	Non-SIU	Total
Number of IU inspections by POTW during the reporting period	0	0	0	4	0	4
Number of IUs inspected by POTW during the reporting period	0	0	0	3	0	3
Number of IUs not inspected by POTW during the reporting period	0	0	0	0	N/A	0

	SIU	CIU	MTCIU	NSCIU	Non-SIU	Total
Number of IUs in SNC with self-monitoring requirements that were not inspected by POTW during the reporting period	0	0	0	0	N/A	0

Sampling

	SIU	CIU	MTCIU	NSCIU	Non-SIU	Total
Number of IU sampling events conducted by POTW during the reporting period	0	0	0	4	0	4
Number of IUs sampled by POTW during the reporting period	0	0	0	3	0	3
Number of IUs with self-monitoring requirements that were sampled by POTW during the reporting period	0	0	0	3	N/A	3
Number of IUs with self-monitoring requirements that were not sampled by POTW during the reporting period	0	0	0	0	N/A	0
Number of IUs in SNC with self-monitoring requirements that were not sampled by POTW during the reporting period	0	0	0	0	N/A	0

Local Limits Information —

	SIU	CIU	MTCIU	NSCIU	Non-SIU	Total
Number IUs subject to local limits during the reporting period	0	0	0	3	0	3
Number IUs subject to more stringent local limits during the reporting period	N/A	0	0	0	N/A	0

Local Limits

When were your local limits last adopted by your POTW? 04/13/2022
When were your local limits last technically evaluated? 02/08/2022

Not POC	Pollutants	Local Limit Value	Local Limit Unit	Limit Comment
☐	Arsenic, total [as As]	0.01	mg/l	
☐	Cadmium, total [as Cd]	0.02	mg/l	
☑	Chromium, hexavalent [as Cr]			
☐	Chromium, total [as Cr]	0.04	mg/l	
☑	Chromium, trivalent [as Cr]			
☐	Copper, total [as Cu]	0.25	mg/l	
☑	Cyanide, free [amenable to chlorination]			
☐	Cyanide, total [as CN]	0.15	mg/l	

Not POC	Pollutants	Local Limit Value	Local Limit Unit	Limit Comment
☐	Lead, total [as Pb]	0.15	mg/l	
☐	Mercury, total [as Hg]	0.01	mg/l	
☐	Molybdenum, total [as Mo]	0	mg/l	Local Limit is N/A not 0.
☐	Nickel, total [as Ni]	0.43	mg/l	
☐	Selenium, total [as Se]	0.05	mg/l	
☐	Silver, total [as Ag]	0.26	mg/l	
☐	Zinc, total [as Zn]	0.8	mg/l	
☑	BOD, 5-day [20 deg. C]			
☑	Nitrogen, ammonia, total [as NH3]			
☑	Suspended Solids, Total			

Not POC	POTW-Specified Pollutants	Local Limit Value	Local Limit Unit	Limit Comment
☐	Oil and grease	248.92	mg/l	
☐	PCB, total, scan effluent	0	mg/l	
☐	Aluminum, total [as Al]	11.2	mg/l	
☐	Sulfate [as S]	0	mg/l	Local Limit is N/A not 0.
☐	Thallium, total [as Tl]	0	mg/l	Local Limit is N/A not 0.

Monitoring Results Information −

POTW Monitoring Results

Monitoring Results File Type: Priority Pollutant Scan
File Name: Priority Pollutant Scan - Barscreen.pdf <https://epa.gov/net-ppr/action/secured/attachment/1637>
Upload Date: 02/05/2025
Description: Barscreen

Monitoring Results File Type: Priority Pollutant Scan
File Name: Priority Pollutant Scan - Biosolids.pdf <https://epa.gov/net-ppr/action/secured/attachment/1638>
Upload Date: 02/05/2025
Description: Biosoilds

Monitoring Results File Type: Priority Pollutant Scan
File Name: Priority Pollutant Scan - Influent.pdf <https://epa.gov/net-ppr/action/secured/attachment/1639>

Upload Date: 02/05/2025
Description: Influent

Monitoring Results File Type: Monitoring Results Workbook
File Name: NMWA - Influent_Effluent_Sludge.xlsb <https://epa.gov/net-ppr/action/secured/attachment/2851>
Upload Date: 03/13/2025
Description: Influent, Effluent, and Sludge Quarterly Monitoring Results

PFAS Monitoring Results

Does the NPDES permit issued to this POTW contain pretreatment requirements regarding PFAS? No

Modification History —

Modification History

Expected Modifications

Additional Supporting Information —

Is there any supporting information to be added? Yes

Enter Supporting Information: Attached for reference are the following additional supporting information: 1. Additional Support Information for Busch LLC 2. Additional Support Information for von C Brewing 3. Additional Support Information for PCB Sampling Requirements 4. Additional Support Information for Dental Discharge Facilities

Attach Supporting Information

File Description: Additional Information for Busch LLC Facility
File Name: Additional Support Info - Busch LLC.pdf <https://epa.gov/net-ppr/action/secured/reportattachment/2852> **Upload Date:** 03/13/2025

File Description: Additional Information for von C Brewing Facility
File Name: Additional Support Info - von C Brewing.pdf <https://epa.gov/net-ppr/action/secured/reportattachment/2853> **Upload Date:** 03/13/2025

File Description: Additional Information for PCB Sampling Requirements
File Name: Additional Support Info - PCB Sampling Req.pdf <https://epa.gov/net-ppr/action/secured/reportattachment/2854> **Upload Date:** 03/13/2025

File Description: Additional Information for Dental Discharge Facilities
File Name: Additional Support Info - Dental Facilities.pdf <https://epa.gov/net-ppr/action/secured/reportattachment/2856> **Upload Date:** 03/13/2025

Certification Information

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 gathered and evaluated the information submitted. Based on my inquiry of the person or 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 have no personal knowledge that the information submitted is other than 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. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

Certified By:
Certifier Title:
Certifier Email:
Certified On:

ADDITIONAL SUPPORTING INFORMATION
VON C BREWING COMPANY (VON C)

HRG

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EXECUTIVE SUMMARY

This report provides an overview of von C Brewing Company's (von C Brewing) compliance status with its Industrial Waste Discharge (IWD) Permit, enforcement actions taken by the Norristown Municipal Waste Authority (Authority), and the required corrective action items moving forward for the facility.

Due to some discharge limit exceedances seen in their 2024 Quarter 4 Sampling, the von C Brewing facility is currently non-compliant with their IWD Permit NMWA-03. The Authority is currently developing a plan to issue/establish penalties for von C Brewing if permitted discharge limits are not achieved.

1.0 PERMIT IMPLEMENTATION

von C Brewing is a micro-brewery located on 1210 Stanbridge St Suite 300, Norristown, PA. The facility brews beer daily and is open to the public for food and drink from Wednesday to Sunday.

The brewery currently has one (1) form of pretreatment via a "side stream process". This process separates the grain, yeast, and hops into storage totes from the processed beer batch. The storage tote, containing spent grain, yeast, and hops, are delivered to a local farm (local farmer Bill Brant) for stock feed. The process sewer flow from the facility comes from the water used in the cleaning and sanitizing equipment cycle process discharged into sewer system.

The von C Brewing IWD Permit NMWA-03 was issued by the Authority on August 16, 2022, which became effective on October 1, 2022, due to sampling in their IPP Baseline Application that indicated local limit parameters with concentrations of concern.

2.0 ENFORCEMENT ACTION

On June 11, 2024, von C was sent a non-significant Notice of Violation (NOV) for the 2024 Quarter 1 sampled parameter BOD5 (reported at 436 mg/L) which exceeded the permitted discharge concentration of 250 mg/L.

As a result of NOV, the Authority amended von C's permit to sample once a quarter effective from July 1, 2024, to the remaining permit period (September 30, 2025) and provide an additional sampling analysis for the Authority's review. Note that the von C's IWD permit previously required them to sample every first and third quarter.

Attached at the end of this report is the von C Brewing NOV letter for reference.

3.0 RESPONSE TO NOV

The von C Brewing facility quarterly monitoring report for the 2024 Quarter 3 and associated sampling results were compliant with their IWD permit and satisfied the NOV dated 7/11/2024. In addition, the

random sampling conducted by the Authority and collected on October 18, 2024, was compliant with the permitted discharge concentrations.

However, von C's 2024 Quarter 4 sampling results, collected on October 25, 2024, showed three (3) sample parameters exceedances of the permitted discharge concentrations as seen in Table 1 below.

TABLE 2: VON C QUARTER 4 SAMPLE EXCEEDANCES

Parameter	Sample Results (mg/L)	Discharge Limit (mg/L)
pH	11.3	5 to 10
Biochemical Oxygen Demand	890	250
Phosphorous	10.7	10

4.0 ENFORCEMENT REPONSE PLAN

As a result of the second violation in exceeding the permitted discharge concentrations (seen in the 2024 Quarter 4 sampling results), the Authority is developing a plan to establish and issue penalties for von C Brewing if permitted discharge limits are not achieved. The Authority is considering applying a surcharge to von C Brewing's sewer rate based on the exceedances in discharge limits.

The Authority is currently working to draft a NOV letter with potential surcharge fees that are compliant with the Norristown Borough ordinances. The NOV is anticipated to be sent out sometime in the 2025 2nd Quarter.

APPENDIX A
NOV FOR VON C BREWING (DATED 6/11/2024)

Herbert, Rowland & Grubic, Inc.
501 Allendale Road, Suite 203
King of Prussia, PA 19406
484.460.7050
www.hrg-inc.com

VIA ELECTRONIC MAIL AND CERTIFIED MAIL

June 11, 2024

Mr. Jay von Czoernig
von C Brewing Company
1210 Stanbridge Street, Suite 300
Norristown, PA 19401

Re: Norristown Municipal Waste Authority (NMWA)
Municipal Industrial Pretreatment Program
von C Brewing Company (von C) - IWD Permit NMWA-03
Notification of Violation (NOV)

Dear Mr. von Czoernig:

On behalf of Norristown Municipal Waste Authority (Authority), HRG, Inc. has reviewed von C's 2024 Quarterly Monitoring Report for Quarter 1 and associated sampling results (collection date March 15, 2023) submitted per the IWD Permit NMWA-03 requirements. After review, it appears that the sampled parameter BOD5 (reported at 436 mg/L) exceeded the permitted discharge concentration BOD5 = 250 mg/L. As stated in the permit under Part B – Specific Conditions – 6 & Part C – Sampling and Reporting Conditions – 3.d:

Part B - 6) The Permittee shall not discharge or cause discharge to the Sewerage System any Sewage, Industrial Wastewater, or other matter or substance: Containing pollutants in sufficient quantity, either singly or by interaction with other pollutants, to injure, cause a Pass Through or Interference in the Sewerage System, constitute a hazard to humans, animals or plants, create a toxic effect in the receiving waters of the WWTP, or to exceed any limitation set forth in a National Categorical Pretreatment Standard.

Part C – 3.d) In the event the results of any samples taken by the Permittee exceed an average monthly discharge limitation, the Permittee is required to notify the Authority Manager immediately after becoming aware of the violation(s). The Permittee is then required to resample its effluent (at its own expense) with respect to the parameter in violation and submit the results of this sampling to the Authority within thirty days of becoming aware of the initial violation. The resample results shall be sent to the Authority along with the information specified in Section A.4 of this Permit.

This letter serves as a notification that your facility located on 1210 Stanbridge Street, Suite 300 appears to be in violation of your Industrial Wastewater Discharge Permit (No. NMWA-03) and the Pretreatment Borough Ordinances.

The Authority has requested the following as a result of the sampling results seen from the 2024 1st Quarter:

1. Von C Brewing to sample once a quarter effective from July 1, 2024, to the remaining permit period (September 30, 2025) and provide the sampling analysis for the Authority's review.

a. Please note that the resample shall be 24-hour composite and be completed during typical brewing operations.

b. The sampling results should be emailed to my attention at csalmon@hrg-inc.com with the following personnel CCed (mvital@hrg-inc.com and shane@norristownsewer.org).

Modifications have been made to your Industrial Wastewater Discharge Permit (No. NMWA-03) to reflect the quarterly reporting. Please note that failure to meet local limits may result in surcharge fee(s) being further developed and invoiced to your facility in the future for exceedance permit limits.

Should this event occur again, the Authority has the right to enforce action on the von C Brewing Company in accordance with the §258 – Article IV of the Borough Ordinances which include, but are not limited to, requiring additional sampling and monitoring at the facility (i.e. daily or weekly), reporting NOVs to the Pennsylvania Department of Environmental Protection (PA DEP), and enforcing Fines and/or Civil Penalties.

If you have any questions, please feel free to contact me by phone (484.460.7050) or by email (csalmon@hrg-inc.com).

Sincerely,

Herbert, Rowland & Grubic, Inc.

Cory J. Salmon, PE, PMP
IPP Manager

ERQ/MAV
R007991.0428
P:\0079\007991_0428\Admin\Permits\IPP\Active Facilities\Von C Brewing\(6) NOVs\2024\Q1 Sampling\2024.06.11 - von C Brewing - Notification for Q1 Sampling.docx

Enclosures

c: Shane Vanbuskirk (NMWA)
Barry Thompson (NMWA)

ADDITIONAL SUPPORTING INFORMATION
BUSCH VACUUM SOLUTIONS (BUSCH LLC)

HRG

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EXECUTIVE SUMMARY

This report provides an overview of Busch Vacuum Solutions' (Busch LLC) 2024 compliance status with its Industrial Waste Discharge (IWD) Permit, enforcement actions taken by the Norristown Municipal Waste Authority (Authority), and the required corrective actions items moving forward for the facility.

Since April 2024, the Busch LLC facility modified its process sewer disposal method via hauling (completed by Safety-Kleen Systems, Inc.). The Authority does not believe that the Busch LLC facility classifies as an industrial user due to the modifications since zero process flow (from their hot wash processes) is discharged into the Authority's collection sewer system.

However, due to the multiple IWD permit violations outstanding, the Busch LLC facility is currently non-compliant with their permit. The Authority is working to receive documentation to formally remove the violations to properly terminate the IWD Permit NMWA-08 as shown in *Section 5.0 Enforcement Response Plan*.

1.0 PERMIT IMPLEMENTATION

The Busch LLC facility, located on 2450 Boulevard of the Generals, Norristown, PA, performs repair services of mechanical equipment (mainly pumping equipment) used in meat packaging processes, plastics production, and degassing. The facility receives and stores equipment requiring repairs (that have been cleaned prior receiving) and subsequently disassembles, performs additional cleaning, rehabilitation, and reassembles the equipment for return service.

Prior to April 2024, the facility discharged its domestic sewer and process sewer flow to the Authority's sewer collection system. The process sewer flow consisted of waste discharge from their two (2) hot wash units used for cleaning of equipment. Prior to the Authority's collection system, the process waste would flow through an oil/water separator for partial treatment. The oil/water separator is cleaned on an as needed basis.

Busch LLC's IWD Permit NMWA-08 was issued by the Authority and became effective on March 1, 2024, due to sampling in their IPP Baseline Application that indicated local limit parameters with concentrations of concern.

2.0 ENFORCEMENT ACTION

On June 11, 2024, Busch LLC was sent a non-significant Notice of Violation (NOV) for failure to submitting their quarterly monitoring report for the 2024 1st Quarter and its associated sampling as required by the IWD Permit NMWA-08.

The NOV requested that Busch LLC submit the following within 30 days of the date of the notification letter:

1. Provide any confirmation/results or evidence that a sampling company completed taking samples for testing during the 2024 1st Quarter (January 1, 2024, to March 31, 2024).

2. Provide a completed quarterly monitoring report for the 2024 1st Quarter.

3. Complete an additional round of sampling in accordance with the NMWA-08 Permit and provide sampling results for the Authority's review.

Attached at the end of this report is the Busch LLC NOV for reference.

3.0 RESPONSE TO NOV

The Authority attempted to coordinate with Busch LLC to receive the required items seen in the June 11, 2024, NOV letter. However, the Busch LLC facility failed to provide the items requested in the NOV Letter within the allotted timeframe. In addition to this, the facility also failed to submit the Quarterly Monitoring Report for the 2nd Quarter of 2024 as required by their IWD permit.

Due to the unresponsiveness of Busch LLC, the Authority conducted an onsite inspection on August 20, 2024, to discuss the facility's current operations and requirements of their IWD Permit.

- During the meeting, the facility's service manager stated that in April 2024, the facility had modified its process sewer discharge method and no longer discharged their process sewer waste into the Authority's sewer system.
- The Busch LLC facility currently hauls out the process waste directly from their hot wash units. This is performed by Safety-Kleen Systems, Inc.

As a result of this change, the Authority determined that the Busch LLC facility no longer discharges process sewer into the sewer system and therefore no longer requires an IWD Permit with the Authority for the IPP.

4.0 CLOSEOUT PLAN

Since Busch LLC indicated that the facility no longer discharged industrial/process waste into Authority's sewer system, the Authority began its efforts to receive final documentation required to close-out/terminate the IWD Permit NMWA-08.

A meeting with the Authority, Authority Engineer, and Busch LLC was held on September 5, 2024, to discuss a plan for closing out their IWD permit. As a result of this meeting, the Authority requested the following information to be submitted by the end of September 2024 in order to terminate Busch LLC's IWD Permit:

1. Provide an IWD Permit Closeout Plan.

2. Provide all hauling receipts that correspond to the change in operations.

3. Provide Sampling Results.

4. Provide Q3 Monitoring Report.

The closeout plan was received on October 17, 2024, and after review, there appeared to be nine (9) sample parameters exceeded the permitted discharge concentrations as seen in Table 1 below.

TABLE 1: QUARTER 3 SAMPLE EXCEEDANCES		
Parameter	**Sample Results (mg/L)**	**Discharge Limit (mg/L)**
Aluminum	19.6	11.22
Arsenic	0.011	0.01
Chromium	3.48	0.02
Copper	1.65	0.25
Nickel	8.33	0.43
Silver	0.548	0.26
Zinc	7.03	0.8
Total Kjeldahl Nitrogen (TKN)	86.3	40
Phosphorous	30.4	10

The samples shown on Table 1 were taken from the oil/water separator inside the Busch facility. To obtain a more representative sample of the facility's wastewater discharges, the Authority conducted random sampling at the manhole directly downstream from the facility's lateral. However, the random sample collected by the Authority on November 14, 2024, could not be analyzed due to sampler clogging.

An annual site inspection was conducted on November 20, 2024. During the visit, the oil/water separator was inspected as shown in Figure 1 below. Based on its condition, the separator required cleaning and appeared to be the primary cause for the sample exceedances shown in Table 1. It was discussed at the meeting that the facility would be required to properly clean the oil/water separator as part of the closeout plan. Additionally, the floor drains must be capped and sealed to prevent process sewer flow from being discharged into the Authority's sewer system.

Figure 1: Busch LLC's Oil/Water Separator

After the November 20, 2024, annual inspection, the Authority have tried multiple times to contact and obtain the required documents from the Busch LLC facility to terminate the IWD Permit NMWA-08. The Busch LLC facility has been non-communicative and unresponsive to these requests by the Authority. The Authority also completed another random sample on December 17, 2024, to review if the discharge from the facility were compliant with the permit/local limits. However, the sample was unable to be analyzed due to the absence of flow at the sampling locations.

5.0 ENFORCEMENT REPONSE PLAN

It is acknowledged that the Busch LLC facility no longer directly discharges the process sewer to the Authority's sewer system. However, the Busch facility is still currently in violation of their IWD Permit NMWA-08 and non-significant notice of violation (dated June 11, 2024) as a result of the following.

1. No submission of the facility's Quarterly Monitoring Report for the 2024 1st, 2nd, and 3rd Quarter. [Violation of IWD Permit NMWA-08]

2. No submission of any confirmation or evidence that a sampling company completed taking samples for testing during the 2024 1st Quarter. [Violation of non-significant NOV dated June 11, 2024, and IWD Permit NMWA-08]

3. Non-Compliant Sampling Results from the 2024 3rd Quarter Reporting (collection date 9/25/2024) [Violation of IWD Permit NMWA-08]

To terminate the IWD Permit NMWA-08 issued to Busch LLC, the Authority has requested Busch LLC to provide proper documentation that verifies and confirms that the facility no longer discharges and does not have the ability to discharge process sewer to the Authority's sewer system.

Since September 5, 2025, there have been multiple efforts from the Authority via phone calls, emails, and site visits to try and obtain proper close-out documentation from the Busch LLC facility. However, Busch LLC has been unresponsive and non-communicative in providing the items needed.

As a result, the Authority is planning to submit a significant NOV requesting the Busch LLC facility to submit the following items within 90 days from the date of NOV letter:

1. Provide photo documentation that confirms all floor drains that can collect process water discharge from the facility's hot wash equipment are properly capped and sealed to inhibit process water discharge.

2. Provide documentation that confirms the existing oil/water separator has been cleaned.

3. Provide sampling documentation with compliant sampling results within the local discharge limits per IPP Permit No. NMWA-08.

If Items 1-3 requested above are not received within 90 days from the date of NOV letter, a civil penalty of $500 per day of violation is proposed to be enforced per Section 258-51 A.2 of the Norristown Ordinance. Note that the Busch facility is within West Norriton Township (Township), therefore the Township would have to be the conduit for enforcing fines to the facility.

The Authority has drafted this significant NOV and has submitted it to the Authority and West Norriton Solicitors for final review and approval for issuance. Once approved, the Authority will mail this significant NOV via certified mail to the Busch LLC facility. The NOV is anticipated to be sent out sometime in the 2025 2nd Quarter.

6.0 SUMMARY

The Authority does not believe that the Busch LLC facility classifies as an industrial user due to the modifications of their process sewer disposal method via hauling (completed by Safety-Kleen Systems, Inc.). As a result, there is zero process flow from their hot wash processes that is discharged into the sewer system.

However, due to the multiple IWD permit violations outstanding, the Busch LLC facility is currently non-compliant with their permit. The Authority is working to receive documentation to formally remove the violations to properly terminate the IWD Permit NMWA-08.

APPENDIX A
NOV FOR BUSCH LLC (DATED 6/11/2024)

Herbert, Rowland & Grubic, Inc.
501 Allendale Road, Suite 203
King of Prussia, PA 19406
484.460.7050
www.hrg-inc.com

VIA ELECTRONIC MAIL AND CERTIFIED MAIL

June 11, 2024

Mr. Jason A. White
Busch Vacuum Solutions
2450 Boulevard of the Generals
Norristown, PA 19403

Re: Norristown Municipal Waste Authority (NMWA)
Municipal Industrial Pretreatment Program
Busch Vacuum Solutions (Busch LLC) - IWD Permit NMWA-08
Notification of Violation (NOV)

Dear Mr. White:

The Norristown Municipal Waste Authority (Authority) has not received Busch LLC's Quarterly Monitoring Report for the 2024 1st Quarter and associated sampling results per the IWD Permit NMWA-08 Appendix A – Reporting Requirements within 30 calendar days of the end of the first calendar quarter.

Report Due	Requirements	Submittal Dates
Quarterly-Annual Self-Monitoring Report	Analysis of all Table 1, list 1 and 2 parameters, BMP compliance information*	Sampling to be conducted during first and third quarters of each year (ending March 31st and September 30th, respectively) Reports due within 30 calendar days of the end of the calendar quarter taken provided no violation is detected (see Part C.2.d.)

This letter serves as a notification that your facility, located on 2450 Boulevard of the Generals, appears to be in violation of your Industrial Wastewater Discharge Permit (Permit No. NMWA-08) and the Pretreatment Borough Ordinances.

As a result of this violation, the Authority has requested the Busch LLC facility to submit the following items within 30 days from the date of this notification letter:

1. Provide any confirmation or evidence that a sampling company completed taking samples for testing during the 2024 1st Quarter (January 1, 2024, to March 31, 2024).
    a. Results from this sampling shall be submitted if sampling was completed for the 2024 1st Quarter.
2. Provide a completed quarterly monitoring report (attached) for the 2024 1st Quarter.
3. Complete an additional set of sampling in accordance with Appendix A Table 1 of the NMWA-08 Permit and provide sampling results for the Authority's review.

a. Note that this sample is an additional sample to the 1st and 3rd Quarter NMWA-08 Permit requirements.

All requested items should be emailed to my attention at csalmon@hrg-inc.com with the following personnel CCed (mvital@hrg-inc.com and shane@norristownsewer.org).

Should this event occur again, the Authority has the right to enforce action on the Busch LLC facility in accordance with the §258 – Article IV of the Borough Ordinances which include, but are not limited to, requiring additional sampling and monitoring at the facility (i.e. daily or weekly), reporting NOVs to the Pennsylvania Department of Environmental Protection (PA DEP), and enforcing Fines and/or Civil Penalties. If you have any questions, please feel free to contact me by phone (484.460.7050) or by email (csalmon@hrg-inc.com).

Sincerely,

Herbert, Rowland & Grubic, Inc.

Cory J. Salmon, PE, PMP
IPP Manager

ERQ/MAV
R007991.0428
P:\0079\007991_0428\Admin\Permits\IPP\Active Facilities\Busch LLC\(6) NOVs\2024\Q1 Sampling\2024.06.10 - Buch LLC - Notification for Q1 Sampling.docx

Enclosures

c: Shane Vanbuskirk (NMWA)
Barry Thompson (NMWA)

ADDITIONAL SUPPORTING INFORMATION DENTAL DISCHARGERS

HRG

DENTAL FACILITIES

DENTAL OFFICE REGULATIONS

The Authority currently has eight (8) dental dischargers subject to the rule and all facilities are compliant with the EPA's Amalgam Rule (Rule). In 2024, the Authority had no new dental facilities added to the system.

Table 1 below presents the dental discharger's compliance status at the end of the 2024 calendar year.

TABLE 1: NMWA DENTAL DISCHARGER COMPLIANCE STATUS FOR EPA AMALGAM RULE

Dental Discharger	Address	City	State	Amalgam Separator	One Time Compliance Form	Compliance Reviewed	Reviewed By
IN COMPLIANCE							
Anne M. Facchiano, DMD	1639 Pine St	Norristown	PA	X	X	2/12/2020	CJS
Carp Dental Association	1325 W Airy St	Norristown	PA	X	X	4/7/2021	MAV
Chou Tzichung, DDS	1340 Dekalb St	Norristown	PA	X	X	4/6/2021	MAV
DVCH Norristown	1401 Dekalb St	Norristown	PA	X	X	4/13/2021	MAV
Levito Dental	1733 Markley Street	Norristown	PA	X	X	3/5/2021	MAV
Joy Dental	610 W Marshall St	Norristown	PA	X	X	10/10/2020	MAV
Joseph G. Baker, DDS	1024 W Marshall St	Norristown	PA	X	X	7/28/2020	MAV
Prafull M. Doshi, DDS	601 W Main St	Norristown	PA	X	X	7/18/2019	CJS
EXEMPTION							
Prime Time Dental	1548 Dekalb St	Norristown	PA	-	X	5/10/2022	CJS

Although the EPA's Amalgam Rule does not state any monitoring requirements for compliant dental facilities; in the 1st Quarter of 2025, the Authority representatives requested the Operation and Maintenance Plan for the Amalgam Separator and Amalgam Separator Log(s) for the 2024 calendar year to monitor compliance with the rule. One of the eight dental facilities has responded to the request for the 2024 calendar year.

The Authority and Authority representatives plan to monitor any updates and related requirements released by EPA for the Amalgam Rule.

ADDITIONAL SUPPORTING INFORMATION
PCB SAMPLING REQUIREMENTS

HRG

PCB SAMPLING REQUIREMENTS

Norristown Municipal Waste Authority's (Authority) NPDES permit (PA027421) was renewed and became effective on June 1, 2024. The Authority was not aware of any additional PCBs sampling requirements for the permit beyond the annual dry and wet weather PCB analyses already conducted.

As required by the permit, the permittee shall conduct quarterly influent, effluent, and sludge analysis monitoring all pollutants for which local limits have been established at its treatment plant. All parameters except for PCBs samples at the were collected on a quarterly basis in 2024. The Authority acknowledges that PCBs are included in the local limits (added on April 13, 2022). The Authority have begun sampling PCBs in 2025 on a quarterly basis. The PCB sample results from Quarter 1 of 2025 are attached for reference.

PCB ANALYSIS (2025 QUARTER 1)

HRG

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Laboratory No.: 2507341
Report: 03/07/25
Lab Contact: Richard A Wheeler

Attention: Rich Rancy
Reported To: Norristown WWTP
368 East Washington St.
Norristown, PA 19401

Project Info: Influent & Effluent - Total PCBs

Lab ID: 2507341-01 **Collected By:** Client **Sampled:** 02/27/25 07:23 **Received:** 02/28/25 13:51
Sample Desc: Influent - 01A **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Organics							
PCB-1016	<0.095	ug/L	0.095	EPA 608.3	03/06/25		TWH
PCB-1221	<0.095	ug/L	0.095	EPA 608.3	03/06/25		TWH
PCB-1232	<0.095	ug/L	0.095	EPA 608.3	03/06/25		TWH
PCB-1242	<0.095	ug/L	0.095	EPA 608.3	03/06/25		TWH
PCB-1248	<0.095	ug/L	0.095	EPA 608.3	03/06/25		TWH
PCB-1254	<0.095	ug/L	0.095	EPA 608.3	03/06/25		TWH
PCB-1260	<0.095	ug/L	0.095	EPA 608.3	03/06/25		TWH
Surrogates							
2,4,5,6-Tetrachloro-m-xylene	*9.50%*		*1-131*	*EPA 608.3*	03/06/25		TWH
Decachlorobiphenyl	*13.2%*		*1-109*	*EPA 608.3*	03/06/25		TWH

Lab ID: 2507341-02 **Collected By:** Client **Sampled:** 02/27/25 07:30 **Received:** 02/28/25 13:51
Sample Desc: Effluent **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Organics							
PCB-1016	<0.095	ug/L	0.095	EPA 608.3	03/06/25		TWH
PCB-1221	<0.095	ug/L	0.095	EPA 608.3	03/06/25		TWH
PCB-1232	<0.095	ug/L	0.095	EPA 608.3	03/06/25		TWH
PCB-1242	<0.095	ug/L	0.095	EPA 608.3	03/06/25		TWH
PCB-1248	<0.095	ug/L	0.095	EPA 608.3	03/06/25		TWH
PCB-1254	<0.095	ug/L	0.095	EPA 608.3	03/06/25		TWH
PCB-1260	<0.095	ug/L	0.095	EPA 608.3	03/06/25		TWH
Surrogates							
2,4,5,6-Tetrachloro-m-xylene	*30.6%*		*1-131*	*EPA 608.3*	03/06/25		TWH
Decachlorobiphenyl	*26.2%*		*1-109*	*EPA 608.3*	03/06/25		TWH

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Notes	Prepared By
2507341-01					
Organics					
EPA 608.3	EPA 3510 C	B5C0243	03/05/2025		HSK
2507341-02					
Organics					
EPA 608.3	EPA 3510 C	B5C0243	03/05/2025		HSK

M.J. Reider Associates, Inc.
107 Angelica St, Reading PA, 19611
610-374-5129 www.mjreider.com

WORK ORDER
Chain of Custody

2507341

Client Code: 4241
Client: Norristown WWTP
Project Manager: Richard A Wheeler
Project: Influent & Effluent - Total PCBs
Report To: Norristown WWTP - Rich Rancy - 368 East Washington St., Norristown, PA 19401
Invoice To: Norristown WWTP - Rich Rancy - 368 East Washington St., Norristown, PA 19401

Collected By: (Full Name) RICH RANCY

Comments:

2507341-01 Influent - 01A
PCBs EPA 608.3

Matrix: Non-Potable Water **Type:** Composite (Simple) Date/Time: 2-27-25 / 7:23 AM

A - AG Liter NM NP
B - AG Liter NM NP
C - AG Liter NM NP

2507341-02 Effluent
PCBs EPA 608.3

Matrix: Non-Potable Water **Type:** Composite (Simple) Date/Time: 2-27-25 / 7:30 AM

A - AG Liter NM NP
B - AG Liter NM NP
C - AG Liter NM NP

JW 10:12

RICH RANCY	2-27-25		2/28/25 10:12
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
			2/28/25 13:57
Relinquished By	Date/Time	Received at Laboratory By	Date/Time

Sample Kit Prepared By:	Date

Unless otherwise noted, the samples arrived in good condition, and, where required, were properly preserved and on ice with the temperature of the cooler between 0-6C where required (0-10C for micro; room temperature when permitted).

Checked By: JW Entered By:

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

MJRA Terms & Conditions

All samples submitted must be accompanied by signed documentation representing a Chain of Custody (COC). The COC Record acts as a contract between the client and MJRA. Signing the COC form gives approval for MJRA to perform the requested analyses and is an agreement to pay for the cost of such analyses**.** COC Records must be completed in black or blue indelible ink (must not run when wet). COC documentation begins at the time of sample collection. Client is required to document all sample details prior to releasing samples to MJRA. All samples must be placed on ice immediately after sampling and shipped or delivered to the laboratory in a manner that will maintain the sample temperature above freezing and below 6C (loose ice is preferred)**.**

Sample Submission, Sample Acceptance & Sampling Containers

Included on the COC must be the sample description, date and time of collection (including start and stop for composites), container size and type, preservative information, sample matrix, indication of whether the sample is a grab or composite, number of containers & a list of the tests to be performed. Poor sample collection technique, inappropriate sampling containers and/or improper sample preservation may lead to sample rejection. Suitable sample containers, labels, and preservatives (as applicable), along with blank COCs are provided at no additional cost.

Turnaround Times (TAT)

Average TAT for test results range from 5 to 15 working days depending on the specific analyses and time of year submitted. Faster turnaround times (*RUSH TAT) may be available depending on the current workload in a particular department and the nature of the analyses requested. We encourage you to verify requests for expedited sample results with one of our Technical Directors prior to sample submittal. Without confirmation from a Technical Director, your results may not be completed by your deadline. *RUSH TAT Surcharges are applied for expedited turnaround times.

Analytical Results, Sample Collection Integrity & Subcontracting

Analytical values are for the sample as submitted and relate only to the item tested. The value indicates a snapshot of the constituent content of the sample at the time of sample collection. Analytical results can be impacted by poor sample collection technique and/or improper preservation. All sample collection completed by MJRA was performed in accordance with applicable regulatory protocols or as specified in customer specific sampling plans. Constituent content will vary over time based on the matrix of the sample and the physical and chemical changes to its environment. All sample results and laboratory reports are strictly confidential. Results will not be available to anyone except the primary client or authorized party representing the client unless MJRA receives additional permissions from the client. When necessary, MJRA will subcontract certain analyses to a third party accredited laboratory. If client prohibits subcontracting, it must be provided in writing and include instruction on how to proceed with client samples that require third party analyses.

Payment Terms

Payment Terms are Net 30 days. Prices are subject to change without notice. A standing monthly charge of 1.5% of the clients over-30-day-unpaid balance may be added to the balance after 30 days and each month thereafter (day 31, 61, 91 etc.). The laboratory accepts all major credit cards, ACH transactions, checks and cash. New clients must pay for all services rendered prior to sample collection and/or in some cases report processing. Clients must contact the MJRA accounting department to pursue a credit-based account. MJRA reserves the right to terminate the client's credit account and to refuse to perform additional services on a credit basis if any balance is outstanding for more than 60 days.

Warranty & Litigation

MJRA does not guarantee any results of its services but has agreed to use its best efforts, in accordance with the standards and practices of the industry, to cause such results to be accurate and complete. We disclaim any other warranties, expressed or implied, including a warranty of fitness for a particular purpose and warranty of merchantability. Clients agree that they shall reimburse MJRA for any and all fees, cost and litigation expenses, including reasonable attorney fees incurred by MJRA in obtaining payment for the services rendered. All costs associated with compliance with any subpoena for documents, testimony, or any other purpose relating to work performed by MJRA, for a client, shall be paid by that client. MJRA's aggregate liability for negligent acts and omissions and of an intentional breach by MJRA will not exceed the fee paid for the services. Client agrees to indemnify and hold MJRA harmless for any and all liabilities in excess of said amount. Neither MJRA nor the client shall be liable to the other for special, incidental consequential or punitive liability or damages included but not limited to those arising from delay, loss of use, loss of profits or revenues. MJRA will not be liable to the client unless the client has notified MJRA of the discovery of the alleged negligent act, error, omissions or breach within 30 days of the day of its discovery and within one year of the date of invoice.

Reviewed and Approved by:

Richard A Wheeler
Director of Field Services

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Laboratory No.: 2507343
Report: 03/07/25
Lab Contact: Richard A Wheeler

Attention: Rich Rancy
Reported To: Norristown WWTP
368 East Washington St.
Norristown, PA 19401

Project Info: Solid - Total PCBs

Lab ID: 2507343-01 **Collected By:** Client **Sampled:** 02/27/25 08:40 **Received:** 02/28/25 13:51
Sample Desc: Solid **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Solids, Total	16.9	%	1.0	SM 2540 G	03/03/25		ALD
Organics							
PCB-1016	<0.118	mg/kg dry	0.118	EPA 8082 A	03/07/25		TWH
PCB-1221	<0.118	mg/kg dry	0.118	EPA 8082 A	03/07/25		TWH
PCB-1232	<0.118	mg/kg dry	0.118	EPA 8082 A	03/07/25		TWH
PCB-1242	<0.118	mg/kg dry	0.118	EPA 8082 A	03/07/25		TWH
PCB-1248	<0.118	mg/kg dry	0.118	EPA 8082 A	03/07/25		TWH
PCB-1254	<0.118	mg/kg dry	0.118	EPA 8082 A	03/07/25		TWH
PCB-1260	<0.118	mg/kg dry	0.118	EPA 8082 A	03/07/25		TWH
Surrogates							
2,4,5,6-Tetrachloro-m-xylene	*123%*		*33.5-187*	*EPA 8082 A*	03/07/25		TWH
Decachlorobiphenyl	*101%*		*23.7-205*	*EPA 8082 A*	03/07/25		TWH

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Notes	Prepared By
2507343-01					
Organics					
EPA 8082 A	EPA 3550 C	B5C0244	03/05/2025		JLS

M.J. Reider Associates, Inc.
107 Angelica St, Reading PA, 19611
610-374-5129 www.mjreider.com

WORK ORDER
Chain of Custody

2507343

Client Code: 4241
Project Manager: Richard A Wheeler
Client: Norristown WWTP
Project: Solid - Total PCBs
Report To: Norristown WWTP - Rich Rancy - 368 East Washington St., Norristown, PA 19401
Invoice To: Norristown WWTP - Rich Rancy - 368 East Washington St., Norristown, PA 19401

Collected By: (Full Name) Anthony Grande

Comments:

2507343-01 Solid
PCBs EPA 8082A, TS-M (Dry Wt) SM 2540G

Matrix: Solid **Type:** Grab Date/Time: 2/27/25 840am

A - Glass Jar 32 oz
B - Glass Jar 32 oz

Relinquished By	Date/Time	Received By	Date/Time
	2/27/25 8:40am	JMW 10:17	2/28/25 10:17
		JMW	2/28/25 13:51

Relinquished By / Date/Time / Received at Laboratory By / Date/Time

Sample Kit Prepared By:	Date

Unless otherwise noted, the samples arrived in good condition, and, where required, were properly preserved and on ice with the temperature of the cooler between 0-6C where required (0-10C for micro; room temperature when permitted).

Checked By: JMW Entered By: AR

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

MJRA Terms & Conditions

All samples submitted must be accompanied by signed documentation representing a Chain of Custody (COC). The COC Record acts as a contract between the client and MJRA. Signing the COC form gives approval for MJRA to perform the requested analyses and is an agreement to pay for the cost of such analyses**.** COC Records must be completed in black or blue indelible ink (must not run when wet). COC documentation begins at the time of sample collection. Client is required to document all sample details prior to releasing samples to MJRA. All samples must be placed on ice immediately after sampling and shipped or delivered to the laboratory in a manner that will maintain the sample temperature above freezing and below 6C (loose ice is preferred)**.**

Sample Submission, Sample Acceptance & Sampling Containers

Included on the COC must be the sample description, date and time of collection (including start and stop for composites), container size and type, preservative information, sample matrix, indication of whether the sample is a grab or composite, number of containers & a list of the tests to be performed. Poor sample collection technique, inappropriate sampling containers and/or improper sample preservation may lead to sample rejection. Suitable sample containers, labels, and preservatives (as applicable), along with blank COCs are provided at no additional cost.

Turnaround Times (TAT)

Average TAT for test results range from 5 to 15 working days depending on the specific analyses and time of year submitted. Faster turnaround times (*RUSH TAT) may be available depending on the current workload in a particular department and the nature of the analyses requested. We encourage you to verify requests for expedited sample results with one of our Technical Directors prior to sample submittal. Without confirmation from a Technical Director, your results may not be completed by your deadline. *RUSH TAT Surcharges are applied for expedited turnaround times.

Analytical Results, Sample Collection Integrity & Subcontracting

Analytical values are for the sample as submitted and relate only to the item tested. The value indicates a snapshot of the constituent content of the sample at the time of sample collection. Analytical results can be impacted by poor sample collection technique and/or improper preservation. All sample collection completed by MJRA was performed in accordance with applicable regulatory protocols or as specified in customer specific sampling plans. Constituent content will vary over time based on the matrix of the sample and the physical and chemical changes to its environment. All sample results and laboratory reports are strictly confidential. Results will not be available to anyone except the primary client or authorized party representing the client unless MJRA receives additional permissions from the client. When necessary, MJRA will subcontract certain analyses to a third party accredited laboratory. If client prohibits subcontracting, it must be provided in writing and include instruction on how to proceed with client samples that require third party analyses.

Payment Terms

Payment Terms are Net 30 days. Prices are subject to change without notice. A standing monthly charge of 1.5% of the clients over-30-day-unpaid balance may be added to the balance after 30 days and each month thereafter (day 31, 61, 91 etc.). The laboratory accepts all major credit cards, ACH transactions, checks and cash. New clients must pay for all services rendered prior to sample collection and/or in some cases report processing. Clients must contact the MJRA accounting department to pursue a credit-based account. MJRA reserves the right to terminate the client's credit account and to refuse to perform additional services on a credit basis if any balance is outstanding for more than 60 days.

Warranty & Litigation

MJRA does not guarantee any results of its services but has agreed to use its best efforts, in accordance with the standards and practices of the industry, to cause such results to be accurate and complete. We disclaim any other warranties, expressed or implied, including a warranty of fitness for a particular purpose and warranty of merchantability. Clients agree that they shall reimburse MJRA for any and all fees, cost and litigation expenses, including reasonable attorney fees incurred by MJRA in obtaining payment for the services rendered. All costs associated with compliance with any subpoena for documents, testimony, or any other purpose relating to work performed by MJRA, for a client, shall be paid by that client. MJRA's aggregate liability for negligent acts and omissions and of an intentional breach by MJRA will not exceed the fee paid for the services. Client agrees to indemnify and hold MJRA harmless for any and all liabilities in excess of said amount. Neither MJRA nor the client shall be liable to the other for special, incidental consequential or punitive liability or damages included but not limited to those arising from delay, loss of use, loss of profits or revenues. MJRA will not be liable to the client unless the client has notified MJRA of the discovery of the alleged negligent act, error, omissions or breach within 30 days of the day of its discovery and within one year of the date of invoice.

Reviewed and Approved by:

Richard A Wheeler
Director of Field Services

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Laboratory No.: 2406255
Report: 03/04/24
Lab Contact: Richard A Wheeler

Attention: Rich Rancy
Reported To: Norristown WWTP
368 East Washington St.
Norristown, PA 19401

Project Info: Annual Priority Pollutant - Bar Screen

Lab ID: 2406255-01 **Collected By:** Client **Sampled:** 02/15/24 12:30 **Received:** 02/15/24 14:46
Sample Desc: Bar Screen **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Organics							
Chlordane (technical)	<54.7	mg/kg dry	54.7	EPA 8081 B	02/23/24		TWH
Toxaphene	<109	mg/kg dry	109	EPA 8081 B	02/23/24		TWH
Surrogates							
2,4,5,6-Tetrachloro-m-xylene	*130%*		*32.4-206*	*EPA 8081 B*	02/23/24		TWH
Decachlorobiphenyl	*134%*		*35.4-207*	*EPA 8081 B*	02/23/24		TWH
General Chemistry							
Cyanide	3.92	mg/kg dry	2.85	Kelada-01 Rev 1.2	02/16/24		NJG
Total Phenolics	4.0	mg/kg dry	0.4	EPA 420.4 Rev 1.0	02/20/24		JMW
Solids, Total	36.5	%	1.0	SM 2540 G	02/16/24		ALD
Organics							
PCB-1016	<0.0365	mg/kg dry	0.0365	EPA 8082 A	02/27/24		TWH
PCB-1221	<0.0365	mg/kg dry	0.0365	EPA 8082 A	02/27/24		TWH
PCB-1232	<0.0365	mg/kg dry	0.0365	EPA 8082 A	02/27/24		TWH
PCB-1242	<0.0365	mg/kg dry	0.0365	EPA 8082 A	02/27/24		TWH
PCB-1248	<0.0365	mg/kg dry	0.0365	EPA 8082 A	02/27/24		TWH
PCB-1254	<0.0365	mg/kg dry	0.0365	EPA 8082 A	02/27/24		TWH
PCB-1260	<0.0365	mg/kg dry	0.0365	EPA 8082 A	02/27/24		TWH
Surrogates							
2,4,5,6-Tetrachloro-m-xylene	*128%*		*32.4-206*	*EPA 8082 A*	02/27/24		TWH
Decachlorobiphenyl	*121%*		*35.4-207*	*EPA 8082 A*	02/27/24		TWH
Organics							
4,4'-DDD	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
4,4'-DDE	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
4,4'-DDT	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Aldrin	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Alpha-BHC	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Alpha-Chlordane	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Beta-BHC	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Delta-BHC	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH

Lab ID: 2406255-01 Continued

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Organics							
Dieldrin	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Endosulfan I	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Endosulfan II	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Endosulfan Sulfate	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Endrin	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Endrin Aldehyde	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Endrin Ketone	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Gamma-Chlordane	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Heptachlor	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Heptachlor Epoxide	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Lindane	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Methoxychlor	<21.9	mg/kg dry	21.9	EPA 8081 B	02/23/24		TWH
Surrogates							
2,4,5,6-Tetrachloro-m-xylene	*130%*		*32.4-206*	*EPA 8081 B*	02/23/24		TWH
Decachlorobiphenyl	*134%*		*35.4-207*	*EPA 8081 B*	02/23/24		TWH
Semivolatiles							
1,2,4-Trichlorobenzene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
1,2-Dichlorobenzene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
1,2-Diphenylhydrazine (as Azobenzene)	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
1,3-Dichlorobenzene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
1,4-Dichlorobenzene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
2,2'-Oxybis(1-Chloropropane)	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
2,4,6-Trichlorophenol	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
2,4-Dichlorophenol	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
2,4-Dimethylphenol	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
2,4-Dinitrophenol	<1370	mg/kg dry	1370	EPA 8270 D	02/26/24		DWL
2,4-Dinitrotoluene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
2,6-Dinitrotoluene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
2-Chloronaphthalene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
2-Chlorophenol	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
2-Methyl-4,6-dinitrophenol	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
2-Nitrophenol	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
3,3-Dichlorobenzidine	<547	mg/kg dry	547	EPA 8270 D	02/26/24		DWL
4-Bromophenyl Phenyl Ether	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
4-Chloro-3-Methylphenol	<547	mg/kg dry	547	EPA 8270 D	02/26/24		DWL
4-Chlorophenyl phenyl ether	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL

Lab ID: 2406255-01 Continued

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Semivolatiles							
4-Nitrophenol	<1370	mg/kg dry	1370	EPA 8270 D	02/26/24		DWL
Acenaphthene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Acenaphthylene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Anthracene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Benzidine	<547	mg/kg dry	547	EPA 8270 D	02/26/24		DWL
Benzo(a)anthracene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Benzo(a)pyrene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Benzo(b)fluoranthene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Benzo(ghi)perylene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Benzo(k)fluoranthene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Bis(2-chloroethoxy)methane	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Bis(2-Chloroethyl)ether	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Bis(2-Ethylhexyl)phthalate	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Butyl Benzyl Phthalate	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Chrysene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Dibenzo(a,h)anthracene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Diethyl Phthalate	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Dimethyl Phthalate	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Di-n-butyl Phthalate	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Di-n-octyl Phthalate	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Fluoranthene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Fluorene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Hexachlorobenzene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Hexachlorobutadiene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Hexachlorocyclopentadiene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Hexachloroethane	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Indeno(1,2,3-cd)pyrene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Isophorone	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Naphthalene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Nitrobenzene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
N-Nitrosodimethylamine	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
N-Nitrosodi-n-propylamine	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
N-Nitrosodiphenylamine	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Pentachlorophenol	<1370	mg/kg dry	1370	EPA 8270 D	02/26/24		DWL
Phenanthrene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Phenol	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Pyrene	<274	mg/kg dry	274	EPA 8270 D	02/26/24		DWL
Surrogates							

Lab ID: 2406255-01 Continued

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Semivolatiles							
Surrogates							
2,4,6-Tribromophenol	*110%*		*1-170*	*EPA 8270 D*	02/26/24		DWL
2-Fluorobiphenyl	*92.0%*		*9.91-168*	*EPA 8270 D*	02/26/24		DWL
2-Fluorophenol	*72.0%*		*16-113*	*EPA 8270 D*	02/26/24		DWL
Nitrobenzene-d5	*93.0%*		*43-110*	*EPA 8270 D*	02/26/24		DWL
Phenol-d5	*95.0%*		*27.6-115*	*EPA 8270 D*	02/26/24		DWL
Terphenyl-d14	*102%*		*34-145*	*EPA 8270 D*	02/26/24		DWL
Semivolatiles							
2,3,7,8-Tetrachlorodibenzo -p-dioxin	ND-02			EPA 8270 SIM	02/28/24		DWL
Total Metals							
Antimony	<11.6	mg/kg dry	11.6	EPA 6010 C	02/21/24		HRG
Arsenic	<11.6	mg/kg dry	11.6	EPA 6010 C	02/21/24		HRG
Beryllium	<1.16	mg/kg dry	1.16	EPA 6010 C	02/21/24		HRG
Cadmium	1.51	mg/kg dry	1.16	EPA 6010 C	02/21/24		HRG
Chromium	12.5	mg/kg dry	2.32	EPA 6010 C	02/21/24		HRG
Copper	435	mg/kg dry	2.32	EPA 6010 C	02/21/24		HRG
Lead	73.5	mg/kg dry	2.3	EPA 6010 C	02/21/24		HRG
Mercury	0.657	mg/kg dry	0.124	EPA 7471 B	02/22/24		ORL
Nickel	13.8	mg/kg dry	2.32	EPA 6010 C	02/21/24		HRG
Selenium	<11.6	mg/kg dry	11.6	EPA 6010 C	02/21/24		HRG
Silver	<1.16	mg/kg dry	1.16	EPA 6010 C	02/23/24		HRG
Thallium	<11.6	mg/kg dry	11.6	EPA 6010 C	02/21/24		HRG
Zinc	463	mg/kg dry	4.64	EPA 6010 C	02/21/24		HRG
Volatiles							
1,1,1-Trichloroethane	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
1,1,2,2-Tetrachloroethane	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
1,1,2-Trichloroethane	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
1,1-Dichloroethane	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
1,1-Dichloroethene	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
1,2-Dichloroethane	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
1,2-Dichloropropane	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
2-Chloroethyl Vinyl Ether	<51.1	ug/kg dry	51.1	EPA 8260 B	02/19/24		GXF
Acrolein	<250	ug/kg dry	250	EPA 8260 B	02/19/24	Q-07, Q-37	GXF
Acrylonitrile	<250	ug/kg dry	250	EPA 8260 B	02/19/24		GXF
Benzene	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Bromodichloromethane	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Bromoform	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF

Lab ID: 2406255-01 Continued

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Volatiles							
Bromomethane (Methyl Bromide)	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Carbon Tetrachloride	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Chlorobenzene	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Chloroethane	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Chloroform	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Chloromethane (Methyl Chloride)	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Cis-1,3-Dichloropropene	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Dibromochloromethane	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Ethylbenzene	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Methylene Chloride (Dichloromethane)	<63.9	ug/kg dry	63.9	EPA 8260 B	02/19/24		GXF
Tetrachloroethene (PCE)	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Toluene	113	ug/kg dry	25.6	EPA 8260 B	02/19/24	Q-18	GXF
Trans-1,2-Dichloroethene	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Trans-1,3-Dichloropropene	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Trichloroethene (TCE)	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Trichlorofluoromethane	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Vinyl Chloride	<25.6	ug/kg dry	25.6	EPA 8260 B	02/19/24		GXF
Surrogates							
4-Bromofluorobenzene	*98.6%*		*58.6-118*	*EPA 8260 B*	02/19/24		GXF
Dibromofluoromethane	*110%*		*42.6-158*	*EPA 8260 B*	02/19/24		GXF
Toluene-d8	*94.3%*		*64.8-121*	*EPA 8260 B*	02/19/24		GXF
Volatiles - Tentatively Identified Compounds (TICs) - All results estimated							
1-Propanol	DET-VS	ug/kg dry	192	EPA 8260 B	02/19/24		GXF
2-Butanol	DET-VS	ug/kg dry	192	EPA 8260 B	02/19/24		GXF
2-Butanone (MEK)	DET-VS	ug/kg dry	192	EPA 8260 B	02/19/24		GXF
Acetic acid, methyl ester	DET-VS	ug/kg dry	192	EPA 8260 B	02/19/24		GXF
Acetone	DET-VS	ug/kg dry	192	EPA 8260 B	02/19/24		GXF
Bicyclo[2.2.1]heptan-2-one, 1,7,7-	DET-VS	ug/kg dry	192	EPA 8260 B	02/19/24		GXF
D-Limonene	DET-VS	ug/kg dry	192	EPA 8260 B	02/19/24		GXF
Ethyl Acetate	DET-VS	ug/kg dry	192	EPA 8260 B	02/19/24		GXF
Eucalyptol	DET-VS	ug/kg dry	192	EPA 8260 B	02/19/24		GXF
unknown	DET-VS	ug/kg dry	192	EPA 8260 B	02/19/24		GXF

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2406255-01				
Organics				
EPA 8081 B	EPA 3550 C	B4B1390	02/21/2024	JLS
EPA 8082 A	EPA 3550 C	B4B1390	02/21/2024	JLS
Semivolatiles				
EPA 8270 D	EPA 3550 C	B4B1081	02/16/2024	WXR
EPA 8270 SIM	EPA 3550 C	B4B1081	02/16/2024	WXR
Total Metals				
EPA 6010 C	EPA 3050 B	B4B1265	02/20/2024	HRG
EPA 7471 B	EPA 7471 B	B4B1486	02/22/2024	ORL
Volatiles				
EPA 8260 B	EPA 5035	B4B1197	02/19/2024	GXF
Volatiles - Tentatively Identified Cor				
EPA 8260 B	EPA 5035	B4B1197	02/19/2024	GXF

Notes and Definitions

DET-VS Volatile results greater than 30ug/kg as compared to concentration of closest internal standard.

ND-02 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.

Q-07 The blank spike was outside acceptable limits of 70-130% recovery at 143%.

Q-18 The duplicate RPD was greater than 20% at 80%.

Q-37 The calibration verification was outside acceptable limits of +/- 30% difference at +30.4%.

TICS A TIC (tentatively identified compound) is a compound that can be detected by the analytical testing method, but its' identity and concentration cannot be confirmed without further analytical investigation. Certain analytical methods can report TICs as compounds that the instrument can detect but are not identified as specific requested target compounds by using the following methodology:
The mass spectra of the non-target compound is compared to the mass spectra of compounds in the NIST/EPA mass spectral library. A most-probable match is detailed on the TIC report generated by the instrument and reviewed by the analyst. A probable match with a Q value >80, and above the concentration of the internal standard, is required for the non-target compound to be reported as a TIC by the laboratory. As many as 10 TICS will be detailed on the analytical report. It's possible that unknown compounds may be present that cannot be further identified.

M.J. Reider Associates, Inc.
107 Angelica St, Reading PA, 19611
610-374-5129 www.mjreider.com

WORK ORDER
Chain of Custody

2406255

Client Code: 4241
Client: Norristown WWTP
Project Manager: Richard A Wheeler
Project: Annual Priority Pollutant - Bar Screen
Report To: Norristown WWTP - Rich Rancy - 368 East Washington St., Norristown, PA 19401
Invoice To: Norristown WWTP - Rich Rancy - 368 East Washington St., Norristown, PA 19401

Collected By : (Full Name) RICH RANCY

Comments:

Matrix: Solid **Type:** Grab Date/Time: 2-15-24 / 12:30 pm

2406255-01 Bar Screen

Ag EPA 6010, As EPA 6010, Be EPA 6010, C/T EPA 8081B, Cd EPA 6010, CN Kelada-01, Cr EPA 6010, Cu EPA 6010, Hg EPA 7471, Ni EPA 6010, Pb EPA 6010, PCBs EPA 8082A, TS-M (Dry Wt) SM 2540G, VOA EPA 8260 PPL, VOA EPA 8260 TICS, Zn EPA 6010, Pesticides EPA 8081B, Phenols EPA 420.4, Sb EPA 6010, Se EPA 6010, Semi-VOA EPA 8270 PPL, Semi-VOA EPA 8270 SIM Dioxin, Tl EPA 6010

A - Glass Jar 32 oz
B - Glass Jar 32 oz
C - Glass Jar 4 oz

NP	2/15/24 13:44	[signature]	2/15/24 13:44
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received at Laboratory By [signature]	2/15/24 14:46 Date/Time

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	1.9
Samples on Ice?	(Yes) No NA
Approved By:	DM
Entered By:	EC

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Printed: 2/7/2024 2:16:25PM

Report Template: w

MJRA Terms & Conditions

All samples submitted must be accompanied by signed documentation representing a Chain of Custody (COC). The COC Record acts as a contract between the client and MJRA. Signing the COC form gives approval for MJRA to perform the requested analyses and is an agreement to pay for the cost of such analyses**.** COC Records must be completed in black or blue indelible ink (must not run when wet). COC documentation begins at the time of sample collection. Client is required to document all sample details prior to releasing samples to MJRA. All samples must be placed on ice immediately after sampling and shipped or delivered to the laboratory in a manner that will maintain the sample temperature above freezing and below 6C (loose ice is preferred)**.**

Sample Submission, Sample Acceptance & Sampling Containers

Included on the COC must be the sample description, date and time of collection (including start and stop for composites), container size and type, preservative information, sample matrix, indication of whether the sample is a grab or composite, number of containers & a list of the tests to be performed. Poor sample collection technique, inappropriate sampling containers and/or improper sample preservation may lead to sample rejection. Suitable sample containers, labels, and preservatives (as applicable), along with blank COCs are provided at no additional cost.

Turnaround Times (TAT)

Average TAT for test results range from 5 to 15 working days depending on the specific analyses and time of year submitted. Faster turnaround times (*RUSH TAT) may be available depending on the current workload in a particular department and the nature of the analyses requested. We encourage you to verify requests for expedited sample results with one of our Technical Directors prior to sample submittal. Without confirmation from a Technical Director, your results may not be completed by your deadline. *RUSH TAT Surcharges are applied for expedited turnaround times.

Analytical Results, Sample Collection Integrity & Subcontracting

Analytical values are for the sample as submitted and relate only to the item tested. The value indicates a snapshot of the constituent content of the sample at the time of sample collection. Analytical results can be impacted by poor sample collection technique and/or improper preservation. All sample collection completed by MJRA was performed in accordance with applicable regulatory protocols or as specified in customer specific sampling plans. Constituent content will vary over time based on the matrix of the sample and the physical and chemical changes to its environment. All sample results and laboratory reports are strictly confidential. Results will not be available to anyone except the primary client or authorized party representing the client unless MJRA receives additional permissions from the client. When necessary, MJRA will subcontract certain analyses to a third party accredited laboratory. If client prohibits subcontracting, it must be provided in writing and include instruction on how to proceed with client samples that require third party analyses.

Payment Terms

Payment Terms are Net 30 days. Prices are subject to change without notice. A standing monthly charge of 1.5% of the clients over-30-day-unpaid balance may be added to the balance after 30 days and each month thereafter (day 31, 61, 91 etc.). The laboratory accepts all major credit cards, ACH transactions, checks and cash. New clients must pay for all services rendered prior to sample collection and/or in some cases report processing. Clients must contact the MJRA accounting department to pursue a credit-based account. MJRA reserves the right to terminate the client's credit account and to refuse to perform additional services on a credit basis if any balance is outstanding for more than 60 days.

Warranty & Litigation

MJRA does not guarantee any results of its services but has agreed to use its best efforts, in accordance with the standards and practices of the industry, to cause such results to be accurate and complete. We disclaim any other warranties, expressed or implied, including a warranty of fitness for a particular purpose and warranty of merchantability. Clients agree that they shall reimburse MJRA for any and all fees, cost and litigation expenses, including reasonable attorney fees incurred by MJRA in obtaining payment for the services rendered. All costs associated with compliance with any subpoena for documents, testimony, or any other purpose relating to work performed by MJRA, for a client, shall be paid by that client. MJRA's aggregate liability for negligent acts and omissions and of an intentional breach by MJRA will not exceed the fee paid for the services. Client agrees to indemnify and hold MJRA harmless for any and all liabilities in excess of said amount. Neither MJRA nor the client shall be liable to the other for special, incidental consequential or punitive liability or damages included but not limited to those arising from delay, loss of use, loss of profits or revenues. MJRA will not be liable to the client unless the client has notified MJRA of the discovery of the alleged negligent act, error, omissions or breach within 30 days of the day of its discovery and within one year of the date of invoice.

Reviewed and Approved by:

Richard A Wheeler
Director of Field Services

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Laboratory No.: 2437067
Report: 09/09/24
Lab Contact: Richard A Wheeler

Attention: Rich Rancy
Reported To: Norristown WWTP
368 East Washington St.
Norristown, PA 19401

Project Info: Annual Priority Pollutant - Biosolid

Lab ID: 2437067-01 **Collected By:** Client **Sampled:** 08/27/24 13:30 **Received:** 08/28/24 14:20
Sample Desc: Biosolid **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Organics							
Chlordane (technical)	<55.2	mg/kg dry	55.2	EPA 8081 B	09/05/24		TWH
Toxaphene	<110	mg/kg dry	110	EPA 8081 B	09/05/24		TWH
Surrogates							
2,4,5,6-Tetrachloro-m-xylene	*86.0%*		*36.4-181*	*EPA 8081 B*	09/05/24		TWH
Decachlorobiphenyl	*190%*		*37.1-176*	*EPA 8081 B*	09/05/24	Q-32	TWH
General Chemistry							
Cyanide	7.66	mg/kg dry	5.64	Kelada-01 Rev 1.2	09/03/24		NJG
Total Phenolics	2.3	mg/kg dry	0.9	EPA 420.4 Rev 1.0	08/30/24		NJG
Solids, Total	18.1	%	1.0	SM 2540 G	08/29/24		ALD
Organics							
PCB-1016	<0.0369	mg/kg dry	0.0369	EPA 8082 A	09/05/24		TWH
PCB-1221	<0.0369	mg/kg dry	0.0369	EPA 8082 A	09/05/24		TWH
PCB-1232	<0.0369	mg/kg dry	0.0369	EPA 8082 A	09/05/24		TWH
PCB-1242	<0.0369	mg/kg dry	0.0369	EPA 8082 A	09/05/24		TWH
PCB-1248	<0.0369	mg/kg dry	0.0369	EPA 8082 A	09/05/24		TWH
PCB-1254	<0.0369	mg/kg dry	0.0369	EPA 8082 A	09/05/24		TWH
PCB-1260	<0.0369	mg/kg dry	0.0369	EPA 8082 A	09/05/24		TWH
Surrogates							
2,4,5,6-Tetrachloro-m-xylene	*121%*		*36.4-181*	*EPA 8082 A*	09/05/24		TWH
Decachlorobiphenyl	*104%*		*37.1-176*	*EPA 8082 A*	09/05/24		TWH
Organics							
4,4'-DDD	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24	Q-26b	TWH
4,4'-DDE	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24		TWH
4,4'-DDT	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24		TWH
Aldrin	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24		TWH
Alpha-BHC	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24		TWH
Alpha-Chlordane	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24		TWH
Beta-BHC	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24		TWH
Delta-BHC	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24	Q-26c	TWH

Lab ID: 2437067-01 Continued

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Organics							
Dieldrin	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24		TWH
Endosulfan I	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24		TWH
Endosulfan II	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24		TWH
Endosulfan Sulfate	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24	Q-26a	TWH
Endrin	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24		TWH
Endrin Aldehyde	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24		TWH
Endrin Ketone	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24		TWH
Gamma-Chlordane	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24		TWH
Heptachlor	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24	Q-26	TWH
Heptachlor Epoxide	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24		TWH
Lindane	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24		TWH
Methoxychlor	<22.1	mg/kg dry	22.1	EPA 8081 B	09/05/24		TWH
Surrogates							
2,4,5,6-Tetrachloro-m-xylene	*86.0%*		*36.4-181*	*EPA 8081 B*	09/05/24		TWH
Decachlorobiphenyl	*190%*		*37.1-176*	*EPA 8081 B*	09/05/24	Q-32	TWH
Semivolatiles							
1,2,4-Trichlorobenzene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
1,2-Dichlorobenzene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
1,2-Diphenylhydrazine (as Azobenzene)	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
1,3-Dichlorobenzene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
1,4-Dichlorobenzene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
2,2'-Oxybis(1-Chloropropane)	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
2,4,6-Trichlorophenol	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
2,4-Dichlorophenol	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
2,4-Dimethylphenol	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
2,4-Dinitrophenol	<138	mg/kg dry	138	EPA 8270 D	09/03/24		DWL
2,4-Dinitrotoluene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
2,6-Dinitrotoluene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
2-Chloronaphthalene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
2-Chlorophenol	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
2-Methyl-4,6-dinitrophenol	<138	mg/kg dry	138	EPA 8270 D	09/03/24	Q-26a	DWL
2-Nitrophenol	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
3,3-Dichlorobenzidine	<55.2	mg/kg dry	55.2	EPA 8270 D	09/03/24		DWL
4-Bromophenyl Phenyl Ether	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
4-Chloro-3-Methylphenol	<55.2	mg/kg dry	55.2	EPA 8270 D	09/03/24		DWL
4-Chlorophenyl phenyl ether	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL

Lab ID: 2437067-01 Continued

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Semivolatiles							
4-Nitrophenol	<138	mg/kg dry	138	EPA 8270 D	09/03/24		DWL
Acenaphthene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Acenaphthylene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Anthracene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Benzidine	<55.2	mg/kg dry	55.2	EPA 8270 D	09/03/24		DWL
Benzo(a)anthracene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Benzo(a)pyrene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Benzo(b)fluoranthene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Benzo(ghi)perylene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Benzo(k)fluoranthene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Bis(2-chloroethoxy)methane	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Bis(2-Chloroethyl)ether	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Bis(2-Ethylhexyl)phthalate	32.9	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Butyl Benzyl Phthalate	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Chrysene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Dibenzo(a,h)anthracene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Diethyl Phthalate	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Dimethyl Phthalate	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Di-n-butyl Phthalate	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Di-n-octyl Phthalate	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Fluoranthene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Fluorene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Hexachlorobenzene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Hexachlorobutadiene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Hexachlorocyclopentadiene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24	Q-26d	DWL
Hexachloroethane	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Indeno(1,2,3-cd)pyrene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Isophorone	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Naphthalene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24	Q-09	DWL
Nitrobenzene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
N-Nitrosodimethylamine	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
N-Nitrosodi-n-propylamine	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
N-Nitrosodiphenylamine	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Pentachlorophenol	<138	mg/kg dry	138	EPA 8270 D	09/03/24		DWL
Phenanthrene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Phenol	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Pyrene	<27.6	mg/kg dry	27.6	EPA 8270 D	09/03/24		DWL
Surrogates							

Lab ID: 2437067-01 Continued

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Semivolatiles							
Surrogates							
2,4,6-Tribromophenol	*92.7%*		*0.1-170*	*EPA 8270 D*	09/03/24		DWL
2-Fluorobiphenyl	*74.0%*		*50.2-113*	*EPA 8270 D*	09/03/24		DWL
2-Fluorophenol	*62.5%*		*0.1-139*	*EPA 8270 D*	09/03/24		DWL
Nitrobenzene-d5	*70.7%*		*40.2-114*	*EPA 8270 D*	09/03/24		DWL
Phenol-d5	*74.2%*		*27.9-128*	*EPA 8270 D*	09/03/24		DWL
Terphenyl-d14	*97.0%*		*56.4-121*	*EPA 8270 D*	09/03/24		DWL
Semivolatiles							
2,3,7,8-Tetrachlorodibenzo -p-dioxin	ND-02			EPA 8270 SIM	09/04/24		DWL
Total Metals							
Antimony	<26.6	mg/kg dry	26.6	EPA 6010 C	08/30/24		HRG
Arsenic	<26.6	mg/kg dry	26.6	EPA 6010 C	08/30/24		HRG
Beryllium	<2.66	mg/kg dry	2.66	EPA 6010 C	08/30/24		HRG
Cadmium	<2.66	mg/kg dry	2.66	EPA 6010 C	08/30/24		HRG
Chromium	52.1	mg/kg dry	5.31	EPA 6010 C	08/30/24		HRG
Copper	932	mg/kg dry	5.31	EPA 6010 C	08/30/24	Q-13	HRG
Lead	98.3	mg/kg dry	5.3	EPA 6010 C	08/30/24		HRG
Mercury	1.03	mg/kg dry	0.276	EPA 7471 B	08/29/24		ORL
Nickel	30.6	mg/kg dry	5.31	EPA 6010 C	08/30/24		HRG
Selenium	<26.6	mg/kg dry	26.6	EPA 6010 C	08/30/24		HRG
Silver	3.21	mg/kg dry	2.66	EPA 6010 C	08/30/24		HRG
Thallium	<26.6	mg/kg dry	26.6	EPA 6010 C	08/30/24		HRG
Zinc	2790	mg/kg dry	10.6	EPA 6010 C	08/30/24	Q-13a	HRG
Volatiles							
1,1,1-Trichloroethane	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
1,1,2,2-Tetrachloroethane	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
1,1,2-Trichloroethane	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
1,1-Dichloroethane	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
1,1-Dichloroethene	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
1,2-Dichloroethane	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
1,2-Dichloropropane	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
2-Chloroethyl Vinyl Ether	<105	ug/kg dry	105	EPA 8260 B	08/28/24		GXF
Acrolein	<250	ug/kg dry	250	EPA 8260 B	08/28/24		GXF
Acrylonitrile	<250	ug/kg dry	250	EPA 8260 B	08/28/24		GXF
Benzene	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Bromodichloromethane	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Bromoform	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF

Lab ID: 2437067-01 Continued

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Volatiles							
Bromomethane (Methyl Bromide)	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Carbon Tetrachloride	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Chlorobenzene	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Chloroethane	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Chloroform	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Chloromethane (Methyl Chloride)	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Cis-1,3-Dichloropropene	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Dibromochloromethane	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Ethylbenzene	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Methylene Chloride (Dichloromethane)	<132	ug/kg dry	132	EPA 8260 B	08/28/24		GXF
Tetrachloroethene (PCE)	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Toluene	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Trans-1,2-Dichloroethene	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Trans-1,3-Dichloropropene	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Trichloroethene (TCE)	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Trichlorofluoromethane	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Vinyl Chloride	<52.6	ug/kg dry	52.6	EPA 8260 B	08/28/24		GXF
Surrogates							
4-Bromofluorobenzene	*81.2%*		*34.8-142*	*EPA 8260 B*	08/28/24		GXF
Dibromofluoromethane	*115%*		*0.1-187*	*EPA 8260 B*	08/28/24		GXF
Toluene-d8	*76.4%*		*46.5-141*	*EPA 8260 B*	08/28/24		GXF
Volatiles - Tentatively Identified Compounds (TICs) - All results estimated							
.beta.-Pinene	DET-VS	ug/kg dry	789	EPA 8260 B	08/28/24		GXF
3-Eicosene, (E)-	DET-VS	ug/kg dry	789	EPA 8260 B	08/28/24		GXF
Dodecane, 2,7,10-trimethyl-	DET-VS	ug/kg dry	789	EPA 8260 B	08/28/24		GXF
Tetradecane	DET-VS	ug/kg dry	789	EPA 8260 B	08/28/24		GXF
Tridecane	DET-VS	ug/kg dry	789	EPA 8260 B	08/28/24		GXF
Undecane, 2,6-dimethyl-	DET-VS	ug/kg dry	789	EPA 8260 B	08/28/24		GXF
Unknown 1	DET-VS	ug/kg dry	789	EPA 8260 B	08/28/24		GXF
Unknown 2	DET-VS	ug/kg dry	789	EPA 8260 B	08/28/24		GXF
Unknown 3	DET-VS	ug/kg dry	789	EPA 8260 B	08/28/24		GXF
Unknown 4	DET-VS	ug/kg dry	789	EPA 8260 B	08/28/24		GXF

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2437067-01				
Organics				
EPA 8081 B	EPA 3510 C	B4I0031	09/03/2024	BKM
EPA 8082 A	EPA 3510 C	B4I0031	09/03/2024	BKM
Semivolatiles				
EPA 8270 D	EPA 3550 C	B4H2189	08/30/2024	HSK
EPA 8270 SIM	EPA 3550 C	B4H2189	08/30/2024	HSK
Total Metals				
EPA 6010 C	EPA 3050 B	B4H2092	08/29/2024	HRG
EPA 7471 B	EPA 7471 B	B4H2099	08/29/2024	ORL
Volatiles				
EPA 8260 B	EPA 5035	B4H2031	08/28/2024	GXF
Volatiles - Tentatively Identified Cor				
EPA 8260 B	EPA 5035	B4H2031	08/28/2024	GXF

Notes and Definitions

DET-VS Volatile results greater than 30ug/kg as compared to concentration of closest internal standard.

ND-02 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.

Q-09 The blank spike was outside acceptable limits of 55.7-86.6% at 55.1%.

Q-13 The matrix spike(s) were outside acceptable limits of 75-125% recovery at 127%.

Q-13a The matrix spike(s) were outside acceptable limits of 75-125% recovery at 152%.

Q-26 The calibration verification was outside acceptable limits of 80-120% recovery at 120.6%.

Q-26a The calibration verification was outside acceptable limits of 80-120% recovery at 121%.

Q-26b The calibration verification was outside acceptable limits of 80-120% recovery at 122%.

Q-26c The calibration verification was outside acceptable limits of 80-120% recovery at 123%.

Q-26d The calibration verification was outside acceptable limits of 80-120% recovery at 124%.

Q-32 The surrogate was outside acceptable limits of 37.1-176% at 190%.

TICS A TIC (tentatively identified compound) is a compound that can be detected by the analytical testing method, but its' identity and concentration cannot be confirmed without further analytical investigation. Certain analytical methods can report TICs as compounds that the instrument can detect but are not identified as specific requested target compounds by using the following methodology:
The mass spectra of the non-target compound is compared to the mass spectra of compounds in the NIST/EPA mass spectral library. A most-probable match is detailed on the TIC report generated by the instrument and reviewed by the analyst. A probable match with a Q value >80, and above the concentration of the internal standard, is required for the non-target compound to be reported as a TIC by the laboratory. As many as 10 TICS will be detailed on the analytical report. It's possible that unknown compounds may be present that cannot be further identified.

M.J. Reider Associates, Inc.
107 Angelica St, Reading PA, 19611
610-374-5129 www.mjreider.com

WORK ORDER
Chain of Custody

2437067

Client Code: 4241
Project Manager: Richard A Wheeler
Client: Norristown WWTP
Project: Annual Priority Pollutant - Biosolid
Report To: Norristown WWTP - Rich Rancy - 368 East Washington St., Norristown, PA 19401
Invoice To: Norristown WWTP - Rich Rancy - 368 East Washington St., Norristown, PA 19401

Collected By: (Full Name) Anthony Grondo

Comments:

2437067-01 Biosolid

Matrix: Solid **Type:** Grab Date/Time: 8/27/24 1330

Ag EPA 6010, As EPA 6010, Be EPA 6010, C/T EPA 8081B, Cd EPA 6010, CN Kelada-01, Cr EPA 6010, Cu EPA 6010, Hg EPA 7471, Ni EPA 6010, Pb EPA 6010, PCBs EPA 8082A, TS-M (Dry Wt) SM 2540G, VOA EPA 8260 PPL, VOA EPA 8260 TICS, Zn EPA 6010, Pesticides EPA 8081B, Phenols EPA 420.4, Sb EPA 6010, Se EPA 6010, Semi-VOA EPA 8270 PPL, Semi-VOA EPA 8270 SIM Dioxin, Tl EPA 6010

A - Glass Jar 32 oz
B - Glass Jar 32 oz
C - Glass Jar 4 oz

Relinquished By	Date/Time	Received By	Date/Time
	8/27/24 1330		8/28/24 0935
			8/28/24 1420

Relinquished By: Date/Time: 8/28/24 0935

Received at Laboratory By: Date/Time

Sample Kit Prepared By:	Date
JXC	

Unless otherwise noted, the samples arrived in good condition, and, where required, were properly preserved and on ice with the temperature of the cooler between 0-6C where required (0-10C for micro; room temperature when permitted).

Checked By: JXC Entered By:

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

MJRA Terms & Conditions

All samples submitted must be accompanied by signed documentation representing a Chain of Custody (COC). The COC Record acts as a contract between the client and MJRA. Signing the COC form gives approval for MJRA to perform the requested analyses and is an agreement to pay for the cost of such analyses**.** COC Records must be completed in black or blue indelible ink (must not run when wet). COC documentation begins at the time of sample collection. Client is required to document all sample details prior to releasing samples to MJRA. All samples must be placed on ice immediately after sampling and shipped or delivered to the laboratory in a manner that will maintain the sample temperature above freezing and below 6C (loose ice is preferred)**.**

Sample Submission, Sample Acceptance & Sampling Containers

Included on the COC must be the sample description, date and time of collection (including start and stop for composites), container size and type, preservative information, sample matrix, indication of whether the sample is a grab or composite, number of containers & a list of the tests to be performed. Poor sample collection technique, inappropriate sampling containers and/or improper sample preservation may lead to sample rejection. Suitable sample containers, labels, and preservatives (as applicable), along with blank COCs are provided at no additional cost.

Turnaround Times (TAT)

Average TAT for test results range from 5 to 15 working days depending on the specific analyses and time of year submitted. Faster turnaround times (*RUSH TAT) may be available depending on the current workload in a particular department and the nature of the analyses requested. We encourage you to verify requests for expedited sample results with one of our Technical Directors prior to sample submittal. Without confirmation from a Technical Director, your results may not be completed by your deadline. *RUSH TAT Surcharges are applied for expedited turnaround times.

Analytical Results, Sample Collection Integrity & Subcontracting

Analytical values are for the sample as submitted and relate only to the item tested. The value indicates a snapshot of the constituent content of the sample at the time of sample collection. Analytical results can be impacted by poor sample collection technique and/or improper preservation. All sample collection completed by MJRA was performed in accordance with applicable regulatory protocols or as specified in customer specific sampling plans. Constituent content will vary over time based on the matrix of the sample and the physical and chemical changes to its environment. All sample results and laboratory reports are strictly confidential. Results will not be available to anyone except the primary client or authorized party representing the client unless MJRA receives additional permissions from the client. When necessary, MJRA will subcontract certain analyses to a third party accredited laboratory. If client prohibits subcontracting, it must be provided in writing and include instruction on how to proceed with client samples that require third party analyses.

Payment Terms

Payment Terms are Net 30 days. Prices are subject to change without notice. A standing monthly charge of 1.5% of the clients over-30-day-unpaid balance may be added to the balance after 30 days and each month thereafter (day 31, 61, 91 etc.). The laboratory accepts all major credit cards, ACH transactions, checks and cash. New clients must pay for all services rendered prior to sample collection and/or in some cases report processing. Clients must contact the MJRA accounting department to pursue a credit-based account. MJRA reserves the right to terminate the client's credit account and to refuse to perform additional services on a credit basis if any balance is outstanding for more than 60 days.

Warranty & Litigation

MJRA does not guarantee any results of its services but has agreed to use its best efforts, in accordance with the standards and practices of the industry, to cause such results to be accurate and complete. We disclaim any other warranties, expressed or implied, including a warranty of fitness for a particular purpose and warranty of merchantability. Clients agree that they shall reimburse MJRA for any and all fees, cost and litigation expenses, including reasonable attorney fees incurred by MJRA in obtaining payment for the services rendered. All costs associated with compliance with any subpoena for documents, testimony, or any other purpose relating to work performed by MJRA, for a client, shall be paid by that client. MJRA's aggregate liability for negligent acts and omissions and of an intentional breach by MJRA will not exceed the fee paid for the services. Client agrees to indemnify and hold MJRA harmless for any and all liabilities in excess of said amount. Neither MJRA nor the client shall be liable to the other for special, incidental consequential or punitive liability or damages included but not limited to those arising from delay, loss of use, loss of profits or revenues. MJRA will not be liable to the client unless the client has notified MJRA of the discovery of the alleged negligent act, error, omissions or breach within 30 days of the day of its discovery and within one year of the date of invoice.

Reviewed and Approved by:

Richard A Wheeler
Director of Field Services

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Laboratory No.: 2437068
Report: 09/11/24
Lab Contact: Richard A Wheeler

Attention: Rich Rancy
Reported To: Norristown WWTP
368 East Washington St.
Norristown, PA 19401

Project Info: Annual Priority Pollutant - Influent

Lab ID: 2437068-01 **Collected By:** Client **Sampled:** 08/27/24 07:30 **Received:** 08/28/24 14:20
Sample Desc: Influent **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Organics							
Chlordane (technical)	<5.00	ug/L	5.00	EPA 608.3	09/04/24		TWH
Toxaphene	<7.20	ug/L	7.20	EPA 608.3	09/04/24		TWH
Surrogates							
2,4,5,6-Tetrachloro-m-xylene	*17.0%*		*1-131*	*EPA 608.3*	09/04/24		TWH
Decachlorobiphenyl	*24.0%*		*1-109*	*EPA 608.3*	09/04/24		TWH
Organics							
PCB-1016	<0.950	ug/L	0.950	EPA 608.3	09/04/24		TWH
PCB-1221	<0.950	ug/L	0.950	EPA 608.3	09/04/24		TWH
PCB-1232	<0.950	ug/L	0.950	EPA 608.3	09/04/24		TWH
PCB-1242	<0.950	ug/L	0.950	EPA 608.3	09/04/24		TWH
PCB-1248	<0.950	ug/L	0.950	EPA 608.3	09/04/24		TWH
PCB-1254	<0.950	ug/L	0.950	EPA 608.3	09/04/24		TWH
PCB-1260	<0.950	ug/L	0.950	EPA 608.3	09/04/24		TWH
Surrogates							
2,4,5,6-Tetrachloro-m-xylene	*17.0%*		*1-131*	*EPA 608.3*	09/04/24		TWH
Decachlorobiphenyl	*24.0%*		*1-109*	*EPA 608.3*	09/04/24		TWH
Organics							
4,4'-DDD	<0.330	ug/L	0.330	EPA 608.3	09/04/24		TWH
4,4'-DDE	<0.120	ug/L	0.120	EPA 608.3	09/04/24		TWH
4,4'-DDT	<0.360	ug/L	0.360	EPA 608.3	09/04/24		TWH
Aldrin	<0.120	ug/L	0.120	EPA 608.3	09/04/24		TWH
Alpha-BHC	<0.090	ug/L	0.090	EPA 608.3	09/04/24		TWH
Alpha-Chlordane	<0.420	ug/L	0.420	EPA 608.3	09/04/24		TWH
Beta-BHC	<0.180	ug/L	0.180	EPA 608.3	09/04/24		TWH
Delta-BHC	<0.270	ug/L	0.270	EPA 608.3	09/04/24		TWH
Dieldrin	<0.060	ug/L	0.060	EPA 608.3	09/04/24		TWH
Endosulfan I	<0.420	ug/L	0.420	EPA 608.3	09/04/24		TWH
Endosulfan II	<0.120	ug/L	0.120	EPA 608.3	09/04/24		TWH
Endosulfan Sulfate	<1.98	ug/L	1.98	EPA 608.3	09/04/24		TWH

Lab ID: 2437068-01 Continued

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Organics							
Endrin	<0.180	ug/L	0.180	EPA 608.3	09/04/24		TWH
Endrin Aldehyde	<0.700	ug/L	0.700	EPA 608.3	09/04/24		TWH
Endrin Ketone	<0.500	ug/L	0.500	EPA 608.3	09/04/24		TWH
Gamma-Chlordane	<0.420	ug/L	0.420	EPA 608.3	09/04/24		TWH
Heptachlor	<0.090	ug/L	0.090	EPA 608.3	09/04/24		TWH
Heptachlor Epoxide	<2.49	ug/L	2.49	EPA 608.3	09/04/24		TWH
Lindane	<0.120	ug/L	0.120	EPA 608.3	09/04/24		TWH
Methoxychlor	<0.500	ug/L	0.500	EPA 608.3	09/04/24		TWH
Surrogates							
2,4,5,6-Tetrachloro-m-xylene	*17.0%*		*1-131*	*EPA 608.3*	09/04/24		TWH
Decachlorobiphenyl	*24.0%*		*1-109*	*EPA 608.3*	09/04/24		TWH
Semivolatiles							
1,2,4-Trichlorobenzene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
1,2-Dichlorobenzene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
1,2-Diphenylhydrazine (as Azobenzene)	<25	ug/L	25	EPA 625.1	08/30/24		DWL
1,3-Dichlorobenzene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
1,4-Dichlorobenzene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
1,4-Dioxane	<25	ug/L	25	EPA 625.1	08/30/24		DWL
2,2'-Oxybis(1-Chloropropane)	<25	ug/L	25	EPA 625.1	08/30/24		DWL
2,4,6-Trichlorophenol	<25	ug/L	25	EPA 625.1	08/30/24		DWL
2,4-Dichlorophenol	<25	ug/L	25	EPA 625.1	08/30/24		DWL
2,4-Dimethylphenol	<25	ug/L	25	EPA 625.1	08/30/24		DWL
2,4-Dinitrophenol	<125	ug/L	125	EPA 625.1	08/30/24		DWL
2,4-Dinitrotoluene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
2,6-Dinitrotoluene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
2-Chloronaphthalene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
2-Chlorophenol	<25	ug/L	25	EPA 625.1	08/30/24		DWL
2-Methyl-4,6-dinitrophenol	<125	ug/L	125	EPA 625.1	08/30/24		DWL
2-Nitrophenol	<25	ug/L	25	EPA 625.1	08/30/24		DWL
3,3-Dichlorobenzidine	<50	ug/L	50	EPA 625.1	08/30/24		DWL
4-Bromophenyl Phenyl Ether	<25	ug/L	25	EPA 625.1	08/30/24		DWL
4-Chloro-3-Methylphenol	<50	ug/L	50	EPA 625.1	08/30/24		DWL
4-Chlorophenyl phenyl ether	<25	ug/L	25	EPA 625.1	08/30/24		DWL
4-Nitrophenol	<125	ug/L	125	EPA 625.1	08/30/24		DWL
7,12-Dimethylbenz(a)anthracene	<50	ug/L	50	EPA 625.1	08/30/24		DWL
Acenaphthene	<25	ug/L	25	EPA 625.1	08/30/24		DWL

Lab ID: 2437068-01 Continued

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Semivolatiles							
Acenaphthylene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Anthracene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Benzidine	<250	ug/L	250	EPA 625.1	08/30/24		DWL
Benzo(a)anthracene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Benzo(a)pyrene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Benzo(b)fluoranthene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Benzo(ghi)perylene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Benzo(k)fluoranthene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Bis(2-chloroethoxy)methane	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Bis(2-Chloroethyl)ether	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Bis(2-Ethylhexyl)phthalate	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Butyl Benzyl Phthalate	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Chrysene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Dibenzo(a,h)anthracene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Diethyl Phthalate	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Dimethyl Phthalate	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Di-n-butyl Phthalate	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Di-n-octyl Phthalate	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Fluoranthene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Fluorene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Hexachlorobenzene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Hexachlorobutadiene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Hexachlorocyclopentadiene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Hexachloroethane	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Indeno(1,2,3-cd)pyrene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Isophorone	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Naphthalene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Nitrobenzene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
N-Nitrosodimethylamine	<25	ug/L	25	EPA 625.1	08/30/24		DWL
N-Nitrosodi-n-propylamine	<25	ug/L	25	EPA 625.1	08/30/24		DWL
N-Nitrosodiphenylamine	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Pentachlorophenol	<50	ug/L	50	EPA 625.1	08/30/24		DWL
Phenanthrene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Phenol	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Pyrene	<25	ug/L	25	EPA 625.1	08/30/24		DWL
Surrogates							
2,4,6-Tribromophenol	*40.1%*		*0.1-154*	*EPA 625.1*	08/30/24		DWL
2-Fluorobiphenyl	*31.2%*		*11.3-94.5*	*EPA 625.1*	08/30/24		DWL

Lab ID: 2437068-01 Continued

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Semivolatiles							
Surrogates							
2-Fluorophenol	*24.6%*		*0.1-60.8*	*EPA 625.1*	08/30/24		DWL
Nitrobenzene-d5	*63.2%*		*23.7-103*	*EPA 625.1*	08/30/24		DWL
Phenol-d5	*20.3%*		*0.1-59.2*	*EPA 625.1*	08/30/24		DWL
Terphenyl-d14	*20.4%*		*0.1-121*	*EPA 625.1*	08/30/24		DWL
Semivolatiles							
2,3,7,8-Tetrachlorodibenzo -p-dioxin	ND-02	ug/L	5000	EPA 625.1 SIM	08/30/24		DWL
Semivolatiles - Tentatively Identified Compounds (TICs) - All results estimated							
9-Octadecenoic acid, (E)-	DET-SW (+/- 99)	ug/L	200	EPA 625.1	08/30/24		DWL
n-Hexadecanoic acid	DET-SW (+/- 99)	ug/L	200	EPA 625.1	08/30/24		DWL
Octadecanoic acid	DET-SW (+/- 98)	ug/L	200	EPA 625.1	08/30/24		DWL
Total Metals							
Antimony	<0.003	mg/L	0.003	EPA 200.8 Rev 5.4	08/30/24		MPB
Arsenic	<0.001	mg/L	0.001	EPA 200.8 Rev 5.4	08/30/24		MPB
Beryllium	<0.0010	mg/L	0.0010	EPA 200.8 Rev 5.4	08/30/24		MPB
Cadmium	<0.0010	mg/L	0.0010	EPA 200.8 Rev 5.4	08/30/24		MPB
Chromium	0.0063	mg/L	0.0010	EPA 200.8 Rev 5.4	08/30/24		MPB
Copper	0.086	mg/L	0.001	EPA 200.8 Rev 5.4	08/30/24		MPB
Lead	0.009	mg/L	0.001	EPA 200.8 Rev 5.4	08/30/24		MPB
Mercury	<0.0002	mg/L	0.0002	EPA 245.1 Rev 3.0	09/03/24		ORL
Molybdenum	0.004	mg/L	0.003	EPA 200.8 Rev 5.4	08/30/24		MPB
Nickel	0.0063	mg/L	0.0010	EPA 200.8 Rev 5.4	08/30/24		MPB
Selenium	0.001	mg/L	0.001	EPA 200.8 Rev 5.4	09/03/24		MPB
Silver	<0.0010	mg/L	0.0010	EPA 200.8 Rev 5.4	08/30/24		MPB
Thallium	<0.003	mg/L	0.003	EPA 200.8 Rev 5.4	08/30/24		MPB
Zinc	0.322	mg/L	0.005	EPA 200.8 Rev 5.4	08/30/24		MPB

M.J. Reider Associates, Inc.

Lab ID: 2437068-02 **Collected By:** Client **Sampled:** 08/27/24 07:40 **Received:** 08/28/24 14:20
Sample Desc: Influent Grab **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Cyanide	<0.010	mg/L	0.010	Kelada-01 Rev 1.2	09/03/24		NJG
Total Phenolics	0.031	mg/L	0.002	EPA 420.4 Rev 1.0	09/04/24		KMS
Volatiles							
1,1,1-Trichloroethane	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
1,1,2,2-Tetrachloroethane	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
1,1,2-Trichloroethane	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
1,1-Dichloroethane	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
1,1-Dichloroethene	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
1,2-Dichlorobenzene	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
1,2-Dichloroethane	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
1,2-Dichloropropane	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
1,3-Dichlorobenzene	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
1,4-Dichlorobenzene	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
2-Chloroethyl Vinyl Ether	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Acrolein	<50.0	ug/L	50.0	EPA 624.1	08/30/24		GXF
Acrylonitrile	<50.0	ug/L	50.0	EPA 624.1	08/30/24		GXF
Benzene	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Bromodichloromethane	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Bromoform	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Bromomethane (Methyl Bromide)	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Carbon Tetrachloride	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Chlorobenzene	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Chloroethane	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Chloroform	<2.0	ug/L	2.0	EPA 624.1	08/30/24		GXF
Chloromethane (Methyl Chloride)	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Cis-1,2-Dichloroethene	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Cis-1,3-Dichloropropene	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Dibromochloromethane	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Ethylbenzene	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Methylene Chloride (Dichloromethane)	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Tetrachloroethene (PCE)	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Toluene	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Trans-1,2-Dichloroethene	<2.0	ug/L	2.0	EPA 624.1	08/30/24		GXF
Trans-1,3-Dichloropropene	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Trichloroethene (TCE)	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Trichlorofluoromethane	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF

Lab ID: 2437068-02 Continued

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
Volatiles							
Vinyl Chloride	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Xylenes, Total	<5.0	ug/L	5.0	EPA 624.1	08/30/24		GXF
Surrogates							
4-Bromofluorobenzene	*96.4%*		*64.3-114*	*EPA 624.1*	08/30/24		GXF
Dibromofluoromethane	*90.3%*		*83-127*	*EPA 624.1*	08/30/24		GXF
Toluene-d8	*99.5%*		*65.2-128*	*EPA 624.1*	08/30/24		GXF
Volatiles - Tentatively Identified Compounds (TICs) - All results estimated							
Acetone	DET-VW	ug/L	15.0	EPA 624.1	08/30/24		GXF

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2437068-01				
Organics				
EPA 608.3	EPA 3510 C	B4H2226	08/30/2024	BKM
Semivolatiles				
EPA 625.1	EPA 3510 C	B4H2095	08/29/2024	JLS
EPA 625.1 SIM	EPA 3510 C	B4H2095	08/29/2024	JLS
Semivolatiles - Tentatively Identifie				
EPA 625.1	EPA 3510 C	B4H2095	08/29/2024	JLS
Total Metals				
EPA 200.8 Rev 5.4	EPA 200.2 Rev 2.8	B4H2090	08/29/2024	HRG
EPA 245.1 Rev 3.0	EPA 245.1 Rev 3.0	B4I0023	09/03/2024	ORL

Notes and Definitions

DET-SW Semi-Volatile results greater than 40ug/l as compared to concentration of closest internal standard.

DET-VW Volatile results greater than 15ug/l as compared to concentration of closest internal standard.

ND-02 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.

TICS A TIC (tentatively identified compound) is a compound that can be detected by the analytical testing method, but its' identity and concentration cannot be confirmed without further analytical investigation. Certain analytical methods can report TICs as compounds that the instrument can detect but are not identified as specific requested target compounds by using the following methodology:
The mass spectra of the non-target compound is compared to the mass spectra of compounds in the NIST/EPA mass spectral library. A most-probable match is detailed on the TIC report generated by the instrument and reviewed by the analyst. A probable match with a Q value >80, and above the concentration of the internal standard, is required for the non-target compound to be reported as a TIC by the laboratory. As many as 10 TICS will be detailed on the analytical report. It's possible that unknown compounds may be present that cannot be further identified.

M.J. Reider Associates, Inc.
107 Angelica St, Reading PA, 19611
610-374-5129 www.mjreider.com

WORK ORDER
Chain of Custody

2437068

Client Code: 4241
Client: Norristown WWTP
Project Manager: Richard A Wheeler
Project: Annual Priority Pollutant - Influent
Report To: Norristown WWTP - Rich Rancy - 368 East Washington St., Norristown, PA 19401
Invoice To: Norristown WWTP - Rich Rancy - 368 East Washington St., Norristown, PA 19401

Comments:

Collected By: (Full Name) RICH RANCY

2437068-01 Influent

Matrix: Non-Potable Water **Type:** Composite (Detailed) Date/Time: 8-27-24/ 7:30AM

Composite Sample Start Date & Time:_____ Equipment ID:_____ Set Up Initials:_____

Ag EPA 200.8, As EPA 200.8, Be EPA 200.8, C/T EPA 608.3, Cd EPA 200.8, Cr EPA 200.8, Cu EPA 200.8, Hg EPA 245.1, Mo EPA 200.8, Ni EPA 200.8, Pb EPA 200.8, PCBs EPA 608.3, Pesticides EPA 608.3, Sb EPA 200.8, Se EPA 200.8, Semi-VOA EPA 625.1 PPL/TTO, Semi-VOA EPA 625.1 SIM Dioxin, Semi-VOA EPA 625.1 TICS, Tl EPA 200.8, Zn EPA 200.8

A - Pl 500ml HNO3
B - AG Liter NM NP
C - AG Liter NM NP
D - AG Liter NM NP
E - AG Liter NM NP
F - AG Liter NM NP

2437068-02 Influent Grab

Matrix: Non-Potable Water **Type:** Grab Date/Time: 8-27-24/7:40AM

CN Kelada-01, Phenols EPA 420.4, VOA EPA 624.1, VOA EPA 624.1 TICS

A - AG 250ml WM NaAsO2 & NaOH
B - AG 250ml WM H2SO4
C - Vial 40ml NP, zero hdspc
D - Vial 40ml NP, zero hdspc
E - Vial 40ml NP, zero hdspc
F - Vial 40ml NaThio&HCl(pH<2),zero hdspc
G - Vial 40ml NaThio&HCL(pH 4-5),zero hdspc:pH: 4.79

RICH RANCY	8-27-24/7:40AM	[signature]	8/28/24 0935
Relinquished By	Date/Time	Received By	Date/Time
		[signature]	
Relinquished By	Date/Time	Received By	Date/Time
		[signature]	8/28/24 1420
Relinquished By	Date/Time	Received at Laboratory By	Date/Time

8/28/24 0935

Sample Kit Prepared By:	Date
JXL	

Unless otherwise noted, the samples arrived in good condition, and, where required, were properly preserved and on ice with the temperature of the cooler between 0-6C where required (0-10C for micro; room temperature when permitted).

Checked By: JXL Entered By: RAW

MJRA Terms & Conditions

All samples submitted must be accompanied by signed documentation representing a Chain of Custody (COC). The COC Record acts as a contract between the client and MJRA. Signing the COC form gives approval for MJRA to perform the requested analyses and is an agreement to pay for the cost of such analyses**.** COC Records must be completed in black or blue indelible ink (must not run when wet). COC documentation begins at the time of sample collection. Client is required to document all sample details prior to releasing samples to MJRA. All samples must be placed on ice immediately after sampling and shipped or delivered to the laboratory in a manner that will maintain the sample temperature above freezing and below 6C (loose ice is preferred)**.**

Sample Submission, Sample Acceptance & Sampling Containers

Included on the COC must be the sample description, date and time of collection (including start and stop for composites), container size and type, preservative information, sample matrix, indication of whether the sample is a grab or composite, number of containers & a list of the tests to be performed. Poor sample collection technique, inappropriate sampling containers and/or improper sample preservation may lead to sample rejection. Suitable sample containers, labels, and preservatives (as applicable), along with blank COCs are provided at no additional cost.

Turnaround Times (TAT)

Average TAT for test results range from 5 to 15 working days depending on the specific analyses and time of year submitted. Faster turnaround times (*RUSH TAT) may be available depending on the current workload in a particular department and the nature of the analyses requested. We encourage you to verify requests for expedited sample results with one of our Technical Directors prior to sample submittal. Without confirmation from a Technical Director, your results may not be completed by your deadline. *RUSH TAT Surcharges are applied for expedited turnaround times.

Analytical Results, Sample Collection Integrity & Subcontracting

Analytical values are for the sample as submitted and relate only to the item tested. The value indicates a snapshot of the constituent content of the sample at the time of sample collection. Analytical results can be impacted by poor sample collection technique and/or improper preservation. All sample collection completed by MJRA was performed in accordance with applicable regulatory protocols or as specified in customer specific sampling plans. Constituent content will vary over time based on the matrix of the sample and the physical and chemical changes to its environment. All sample results and laboratory reports are strictly confidential. Results will not be available to anyone except the primary client or authorized party representing the client unless MJRA receives additional permissions from the client. When necessary, MJRA will subcontract certain analyses to a third party accredited laboratory. If client prohibits subcontracting, it must be provided in writing and include instruction on how to proceed with client samples that require third party analyses.

Payment Terms

Payment Terms are Net 30 days. Prices are subject to change without notice. A standing monthly charge of 1.5% of the clients over-30-day-unpaid balance may be added to the balance after 30 days and each month thereafter (day 31, 61, 91 etc.). The laboratory accepts all major credit cards, ACH transactions, checks and cash. New clients must pay for all services rendered prior to sample collection and/or in some cases report processing. Clients must contact the MJRA accounting department to pursue a credit-based account. MJRA reserves the right to terminate the client's credit account and to refuse to perform additional services on a credit basis if any balance is outstanding for more than 60 days.

Warranty & Litigation

MJRA does not guarantee any results of its services but has agreed to use its best efforts, in accordance with the standards and practices of the industry, to cause such results to be accurate and complete. We disclaim any other warranties, expressed or implied, including a warranty of fitness for a particular purpose and warranty of merchantability. Clients agree that they shall reimburse MJRA for any and all fees, cost and litigation expenses, including reasonable attorney fees incurred by MJRA in obtaining payment for the services rendered. All costs associated with compliance with any subpoena for documents, testimony, or any other purpose relating to work performed by MJRA, for a client, shall be paid by that client. MJRA's aggregate liability for negligent acts and omissions and of an intentional breach by MJRA will not exceed the fee paid for the services. Client agrees to indemnify and hold MJRA harmless for any and all liabilities in excess of said amount. Neither MJRA nor the client shall be liable to the other for special, incidental consequential or punitive liability or damages included but not limited to those arising from delay, loss of use, loss of profits or revenues. MJRA will not be liable to the client unless the client has notified MJRA of the discovery of the alleged negligent act, error, omissions or breach within 30 days of the day of its discovery and within one year of the date of invoice.

Reviewed and Approved by:

Richard A Wheeler
Director of Field Services

APPENDIX E

METER CALIBRATION REPORTS

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

NORRISTOWN MUNICIPAL WASTE AUTHORITY
368 E. WASHINGTON STREET
NORRISTOWN, PA 19401

SERVICE DATE: FEBRUARY 06, 2024 **SERVICE CONTRACT:** QUARTERLY (Q2)
LOCATION: POST AERATION TANK #1
METER #: D0069 AB

PRIMARY: WEIR RECTANGLE CONTRACTED 48 INCH (2)
MAXIMUM CAPACITY: 16.35 MGD
METER: ENDRESS+HAUSER **MODEL #:** FMU90 **SERIAL #:** S600D4150E6
RECORDER: ENDRESS+HAUSER **MODEL #:** RSG-35 **SERIAL #:** S703F023428

*** WORK PERFORMED ***

METER CALIBRATION **ERROR:** 0.30 INCHES **TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS

RECORDER CALIBRATION **ERROR:** 0% **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE%

TOTALIZER CALIBRATION **ERROR:** 0 **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
ADJUSTED EQUIPMENT
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): PATRICK MCNALLY

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

NORRISTOWN MUNICIPAL WASTE AUTHORITY
368 E. WASHINGTON STREET
NORRISTOWN, PA 19401

SERVICE DATE: FEBRUARY 06, 2024 **SERVICE CONTRACT:** QUARTERLY (Q2)
LOCATION: POST AERATION TANK #2
METER #: D0069 AC

PRIMARY: WEIR RECTANGLE CONTRACTED 48 INCH (2)
MAXIMUM CAPACITY: 16.35 MGD
METER: ENDRESS+HAUSER **MODEL #:** FMU90 **SERIAL #:** S600D5150E6
RECORDER: ENDRESS+HAUSER **MODEL #:** RSG-35 **SERIAL #:** S703F023428

*** WORK PERFORMED ***

METER CALIBRATION **ERROR:** -0.25 INCHES **TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS

RECORDER CALIBRATION **ERROR:** 0% **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE%

TOTALIZER CALIBRATION **ERROR:** 0 **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
ADJUSTED EQUIPMENT
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): PATRICK MCNALLY

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

NORRISTOWN MUNICIPAL WASTE AUTHORITY
368 E. WASHINGTON STREET
NORRISTOWN, PA 19401

SERVICE DATE: FEBRUARY 06, 2024 **SERVICE CONTRACT:** QUARTERLY (Q2)
LOCATION: NORRISTOWN INFLUENT
METER #: D0069 AF

PRIMARY: 24 INCH
MAXIMUM CAPACITY: 15 MGD

METER: ENDRESS+HAUSER	**MODEL #:** PROMAG 50	**SERIAL #:** L803F216000
RECORDER:	**MODEL #:** N/A	**SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** 0 %	**TOLERANCE:** ±1.000 %

METHOD: ENDRESS+HAUSER FIELD CHECK

RECORDER CALIBRATION	**ERROR:** N/A	**TOLERANCE:** N/A

CHECKED AT: N/A

TOTALIZER CALIBRATION	**ERROR:** 0	**TOLERANCE:** ±1.000 %

CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
VERIFIED TOTALIZER (PASSED)
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): KYLE RANKIN, PATRICK MCNALLY

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

NORRISTOWN MUNICIPAL WASTE AUTHORITY
368 E. WASHINGTON STREET
NORRISTOWN, PA 19401

SERVICE DATE: MAY 02, 2024 **SERVICE CONTRACT:** QUARTERLY (Q2)
LOCATION: POST AERATION TANK #1
METER #: D0069 AB

PRIMARY: WEIR RECTANGLE CONTRACTED 48 INCH (2)
MAXIMUM CAPACITY: 16.35 MGD
METER: ENDRESS+HAUSER **MODEL #:** FMU90 **SERIAL #:** S600D4150E6
RECORDER: ENDRESS+HAUSER **MODEL #:** RSG-35 **SERIAL #:** S703F023428

*** WORK PERFORMED ***

METER CALIBRATION **ERROR:** -0.4 INCHES **TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS

RECORDER CALIBRATION **ERROR:** 0% **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE%

TOTALIZER CALIBRATION **ERROR:** 0 **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
ADJUSTED EQUIPMENT
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): JACOB BROWN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

NORRISTOWN MUNICIPAL WASTE AUTHORITY
368 E. WASHINGTON STREET
NORRISTOWN, PA 19401

SERVICE DATE: MAY 02, 2024 **SERVICE CONTRACT:** QUARTERLY (Q2)
LOCATION: POST AERATION TANK #2
METER #: D0069 AC

PRIMARY: WEIR RECTANGLE CONTRACTED 48 INCH (2)
MAXIMUM CAPACITY: 16.35 MGD
METER: ENDRESS+HAUSER **MODEL #:** FMU90 **SERIAL #:** S600D5150E6
RECORDER: ENDRESS+HAUSER **MODEL #:** RSG-35 **SERIAL #:** S703F023428

*** WORK PERFORMED ***

METER CALIBRATION **ERROR:** INCHES **TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS

RECORDER CALIBRATION **ERROR:** 0% **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE%

TOTALIZER CALIBRATION **ERROR:** 0 **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
COULD NOT CALIBRATE LEVEL- TANK LEVEL IS BELOW WEIRS
METER HAS LOST ECHO ERROR WHEN TANK LEVEL IS LOW
TESTED 4-20MA LOOP
VERIFIED TOTALIZER (PASSED)
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): JACOB BROWN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

NORRISTOWN MUNICIPAL WASTE AUTHORITY
368 E. WASHINGTON STREET
NORRISTOWN, PA 19401

SERVICE DATE: MAY 02, 2024 **SERVICE CONTRACT:** QUARTERLY (Q2)
LOCATION: NORRISTOWN INFLUENT
METER #: D0069 AF

PRIMARY: 24 INCH
MAXIMUM CAPACITY: 15 MGD

METER: ENDRESS+HAUSER	**MODEL #:** PROMAG 50	**SERIAL #:** L803F216000
RECORDER:	**MODEL #:** N/A	**SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** 0.0 %	**TOLERANCE:** ±1.000 %

METHOD: ENDRESS+HAUSER FIELD CHECK

RECORDER CALIBRATION	**ERROR:** N/A	**TOLERANCE:** N/A

CHECKED AT: N/A

TOTALIZER CALIBRATION	**ERROR:** 0	**TOLERANCE:** ±1.000 %

CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
VERIFIED TOTALIZER (PASSED)
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): JACOB BROWN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

NORRISTOWN MUNICIPAL WASTE AUTHORITY
368 E. WASHINGTON STREET
NORRISTOWN, PA 19401

SERVICE DATE: AUGUST 13, 2024 **SERVICE CONTRACT:** QUARTERLY (Q2)
LOCATION: POST AERATION TANK #1
METER #: D0069 AB

PRIMARY: WEIR RECTANGLE CONTRACTED 48 INCH (2)
MAXIMUM CAPACITY: 16.35 MGD
METER: ENDRESS+HAUSER **MODEL #:** FMU90 **SERIAL #:** S600D4150E6
RECORDER: ENDRESS+HAUSER **MODEL #:** RSG-35 **SERIAL #:** S703F023428

*** WORK PERFORMED ***

METER CALIBRATION **ERROR:** -0.05 INCHES **TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS

RECORDER CALIBRATION **ERROR:** 0% **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE%

TOTALIZER CALIBRATION **ERROR:** 0 **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): JACOB BROWN, KYLE RANKIN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

NORRISTOWN MUNICIPAL WASTE AUTHORITY
368 E. WASHINGTON STREET
NORRISTOWN, PA 19401

SERVICE DATE: AUGUST 13, 2024 **SERVICE CONTRACT:** QUARTERLY (Q2)
LOCATION: POST AERATION TANK #2
METER #: D0069 AC

PRIMARY: WEIR RECTANGLE CONTRACTED 48 INCH (2)
MAXIMUM CAPACITY: 16.35 MGD
METER: ENDRESS+HAUSER **MODEL #:** FMU90 **SERIAL #:** S600D5150E6
RECORDER: ENDRESS+HAUSER **MODEL #:** RSG-35 **SERIAL #:** S703F023428

*** WORK PERFORMED ***

METER CALIBRATION **ERROR:** INCHES **TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS

RECORDER CALIBRATION **ERROR:** 0% **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE%

TOTALIZER CALIBRATION **ERROR:** 0 **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

TANK EMPTY.
COULD NOT CALIBRATE

SERVICE REPRESENTATIVE(S): JACOB BROWN, KYLE RANKIN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

NORRISTOWN MUNICIPAL WASTE AUTHORITY
368 E. WASHINGTON STREET
NORRISTOWN, PA 19401

SERVICE DATE: AUGUST 13, 2024 **SERVICE CONTRACT:** QUARTERLY (Q2)
LOCATION: NORRISTOWN INFLUENT
METER #: D0069 AF

PRIMARY: 24 INCH
MAXIMUM CAPACITY: 15 MGD

METER: ENDRESS+HAUSER	**MODEL #:** PROMAG 50	**SERIAL #:** L803F216000
RECORDER:	**MODEL #:** N/A	**SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** 0.00 %	**TOLERANCE:** ±1.000 %

METHOD: ENDRESS+HAUSER FIELD CHECK

RECORDER CALIBRATION	**ERROR:** N/A	**TOLERANCE:** N/A

CHECKED AT: N/A

TOTALIZER CALIBRATION	**ERROR:** 0	**TOLERANCE:** ±1.000 %

CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
VERIFIED TOTALIZER (PASSED)
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): JACOB BROWN, KYLE RANKIN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

NORRISTOWN MUNICIPAL WASTE AUTHORITY
368 E. WASHINGTON STREET
NORRISTOWN, PA 19401

SERVICE DATE: NOVEMBER 19, 2024 **SERVICE CONTRACT:** QUARTERLY (Q2)
LOCATION: POST AERATION TANK #1
METER #: D0069 AB

PRIMARY: WEIR RECTANGLE CONTRACTED 48 INCH (2)
MAXIMUM CAPACITY: 16.35 MGD
METER: ENDRESS+HAUSER **MODEL #:** FMU90 **SERIAL #:** S600D4150E6
RECORDER: ENDRESS+HAUSER **MODEL #:** RSG-35 **SERIAL #:** S703F023428

*** WORK PERFORMED ***

METER CALIBRATION **ERROR:** -0.10 INCHES **TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS

RECORDER CALIBRATION **ERROR:** 0% **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE%

TOTALIZER CALIBRATION **ERROR:** 0 **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
ADJUSTED EQUIPMENT
VERIFIED TOTALIZER
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): KYLE RANKIN, JACOB BROWN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

NORRISTOWN MUNICIPAL WASTE AUTHORITY
368 E. WASHINGTON STREET
NORRISTOWN, PA 19401

SERVICE DATE: NOVEMBER 19, 2024 **SERVICE CONTRACT:** QUARTERLY (Q2)
LOCATION: POST AERATION TANK #2
METER #: D0069 AC

PRIMARY: WEIR RECTANGLE CONTRACTED 48 INCH (2)
MAXIMUM CAPACITY: 16.35 MGD
METER: ENDRESS+HAUSER **MODEL #:** FMU90 **SERIAL #:** S600D5150E6
RECORDER: ENDRESS+HAUSER **MODEL #:** RSG-35 **SERIAL #:** S703F023428

*** WORK PERFORMED ***

METER CALIBRATION **ERROR:** INCHES **TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS

RECORDER CALIBRATION **ERROR:** 0% **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE%

TOTALIZER CALIBRATION **ERROR:** 0 **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

TANK EMPTY COULD NOT CALIBRATE

SERVICE REPRESENTATIVE(S): KYLE RANKIN

WG Malden

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PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

NORRISTOWN MUNICIPAL WASTE AUTHORITY
368 E. WASHINGTON STREET
NORRISTOWN, PA 19401

SERVICE DATE: NOVEMBER 19, 2024 **SERVICE CONTRACT:** QUARTERLY (Q2)
LOCATION: NORRISTOWN INFLUENT
METER #: D0069 AF

PRIMARY: 24 INCH
MAXIMUM CAPACITY: 15 MGD

METER: ENDRESS+HAUSER	**MODEL #:** PROMAG 50	**SERIAL #:** L803F216000
RECORDER:	**MODEL #:** N/A	**SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION **ERROR:** 0.00 % **TOLERANCE:** ±1.000 %
METHOD: ENDRESS+HAUSER FIELD CHECK

RECORDER CALIBRATION **ERROR:** N/A **TOLERANCE:** N/A
CHECKED AT: N/A

TOTALIZER CALIBRATION **ERROR:** 0 **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): JACOB BROWN, KYLE RANKIN

APPENDIX F

WEST NORRITON TOWNSHIP 2024 CHAPTER 94 REPORT

WEST NORRITON TOWNSHIP
MONTGOMERY COUNTY, PENNSYLVANIA

2025 Municipal Wasteload Management Report
(Chapter 94 Report)
For Calendar Year 2024

Prepared For:

West Norriton Township
1630 W. Marshall Street
Jeffersonville, PA 19403

March 2025

File No. 2024-00055

Prepared By:
Gilmore & Associates, Inc.
Engineers ♦ Land Surveyors ♦ Planners ♦ GIS Consultants
65 E. Butler Avenue, Suite 100
New Britain, PA 18901
215-345-4330

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

For Calendar Year: 2024

☐ Permittee is owner and/or operator of a POTW or other sewage treatment facility
☒ Permittee is owner and/or operator of a collection system tributary to a POTW not owned/operated by permittee

GENERAL INFORMATION

Permittee Name:	**West Norriton Township**	Permit No.:	**PA (N/A)**
Mailing Address:	**1630 W. Marshall Street**	Effective Date:	**N/A**
City, State, Zip:	**West Norriton, PA 19403**	Expiration Date:	**N/A**
Contact Person:	**Jason M. Bobst**	Renewal Due Date:	**N/A**
Title:	**Township Manager**	Municipality:	**West Norriton Township**
Phone:	**(610) 631-0450**	County:	**Montgomery County**
Email:	**jbobst@wntwp.com**	Consultant Name:	**Gilmore & Associates, Inc.**

CHAPTER 94 REPORT COMPONENTS

1. Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. (25 Pa. Code § 94.12(a)(1))

   Check the appropriate boxes:

   ☐ Line graph for flows attached (**Attachment**)
   ☐ DEP Chapter 94 Spreadsheet used (**Attachment**)
   ☒ Section 1 is not applicable (report is for a collection system).

2. Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. (25 Pa. Code § 94.12(a)(2))

   Check the appropriate boxes:

   ☐ Line graph for organic loads attached (**Attachment**)
   ☐ DEP Chapter 94 Spreadsheet used (**Attachment**)
   ☒ Section 2 is not applicable (report is for a collection system).

3. If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. (25 Pa. Code § 94.12(a)(3))

   All flow is treated by Norritown Municipal Waste Authority at their wastewater treatment plant. See Attachment E.

4. Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. (25 Pa. Code § 94.12(a)(4))

   Check the appropriate boxes:

   ☒ Map showing sewer extensions constructed, approved/exempted but not yet constructed, and proposed projects attached (**Attachment B**)

   ☒ List summarizing each extension or project attached (**Attachment A**)

   ☒ Schedules describing how each project will be completed over time and effects attached (**Attachment 1**)

   Comments:

   No new sewer or manholes were installed in 2024.

   2 new connections (2 EDUs) occurred in 2024. See below and Attachment A - Table 1
   81 W. Indian Lane - 1 new connection
   69 W. Indian Lane - 1 new connection

5. Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5))

   See Attachment C

6. Discuss the condition of the sewer system including portions of the system where conveyance capacity is being exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is needed or is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SSOs, excessive infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(6))

   Check the appropriate boxes:

   ☐ System experienced capacity-related bypassing, SSOs or surcharging during the report year. On a separate sheet, list the date, location, and reason for each bypass, SSO or surcharge event.

   ☒ System did not experience capacity-related bypassing, SSOs or surcharging during the report year.

   Comments:

   The Township is currently in the process of televising and repairing the system as budget allows. See attached map of work done to date.

7. Attach a discussion on the condition of sewage pumping (pump) stations. Include a comparison of the maximum pumping rate with present maximum flows and the projected 2-year maximum flows for each station. (25 Pa. Code § 94.12(a)(7))

Check the appropriate boxes:

☐ The collection system does not contain pump stations
☒ The collection system does contain pump stations (Number – **6**)
☒ Discussion of condition of each pump station attached (**Attachment D**)

8. If the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the information listed below. (25 Pa. Code § 94.12(a)(8))

a. A copy of any ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has not previously been submitted.

b. A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year.

c. A discussion of specific problems in the sewer system or at the plant, known or suspected to be caused by industrial waste discharges and a summary of the steps being taken to alleviate or eliminate the problems. The discussion shall include a list of industries known to be discharging wastes which create problems in the plant or in the sewer system and action taken to eliminate the problem or prevent its recurrence. The report may describe pollution prevention techniques in the summary of steps taken to alleviate current problems caused by industrial waste dischargers and in actions taken to eliminate or prevent potential or recurring problems caused by industrial waste dischargers.

Check the appropriate boxes:

☒ Industrial waste report as described in 8 a., b. and c. attached (**Attachment F**)
☐ Industrial pretreatment report as required in an NPDES permit attached (**Attachment**)

9. Existing or Projected Overload.

Check the appropriate boxes:

☐ This report demonstrates an existing hydraulic overload condition.
☐ This report demonstrates a projected hydraulic overload condition.
☐ This report demonstrates an existing organic overload condition.
☐ This report demonstrates a projected organic overload condition.

If one or more boxes above have been checked, attach a Corrective Action Plan (CAP) to reduce or eliminate present or projected overloaded conditions under §§ 94.21 and/or 94.22 (relating to existing overload and projected overload). (25 Pa. Code § 94.12(a)(9))

☐ Corrective Action Plan attached (**Attachment**)

10. Where required by the NPDES permit, attach a Sewage Sludge Management inventory that demonstrates a mass balance of solids coming in and leaving the facility over the previous calendar year.

☐ Sewage Sludge Management Inventory attached (**Attachment**)

11. For facilities with CSOs and where required by the NPDES permit, attach an Annual CSO Report (including satellite combined sewer systems).

☐ Annual CSO Report attached (**Attachment**)

12. For POTWs, attach a calibration report documenting that flow measuring, indicating and recording equipment has been calibrated annually. (25 Pa. Code § 94.13(b))

☒ Flow calibration report attached (**Attachment G**)

RESPONSIBLE OFFICIAL CERTIFICATION

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 gathered and evaluated the information submitted. Based on my inquiry of the person or 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Jason M. Bobst, Township Manager	J. M. B.
Name of Responsible Official	Signature
(610) 631-0450	3-18-25
Telephone No.	Date

PREPARER CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared by me or otherwise under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Thomas J. Figaniak, P.E.	Thomas J Figaniak
Name of Preparer	Signature
(215) 345-4330	March 18, 2025
Telephone No.	Date

ATTACHMENT A

ACTIVE, APPROVED AND PLANNED DEVELOPMENT

TABLE 1
ACTIVE, APPROVED AND PLANNED DEVELOPMENTS
WEST NORRITON TOWNSHIP

NAME		Drainage Basin	Status	Total Project Connections		Connections Prior to 2024		2024 Connections		Remaining EDUs		Projected Buildout Schedule									
Reference #	Approved Developments									Total EDUs	Total Flow [1]	2025		2026		2027		2028		2029	
				EDUs	Flow	EDUs	Flow	EDUs	Flow			EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow
1	Norristown School District	Whitehall	Approved	10	2,850	0	-	0	0	10	2,850	0	0	0	0	0	0	10	2,850	0	0
2	Apartments at Schuylkill & Main Street	Rittenhouse	Under Construction [2]	22	6,270	0	-	0	0	22	6,270	0	0	10	2,850	12	3,420	0	0	0	0
3	81 W. Indian Lane	Rittenhouse	Connected	1	285	0	-	1	285	0	0	0	0	0	0	0	0	0	0	0	0
4	2580 Industy Lane (Dan Moore Tree Service)	Whitehall	Approved	1	285	0	-	0	0	1	285	1	285	0	0	0	0	0	0	0	0
5	69 Indian Lane	Rittenhouse	Connected	1	285	0	-	1	285	0	0	0	0	0	0	0	0	0	0	0	0
6	2505 Blvd of Generals	Rittenhouse	Connected	15	4,275	0	-	0	0	15	4,275	15	4,275	0	0	0	0	0	0	0	0
	Approved Sub Total EDUs / Flow			**50**	**14,250**	**0**	**-**	2	570	**48**	**13,680**	16	4,560	10	2,850	12	3,420	10	2,850	0	0

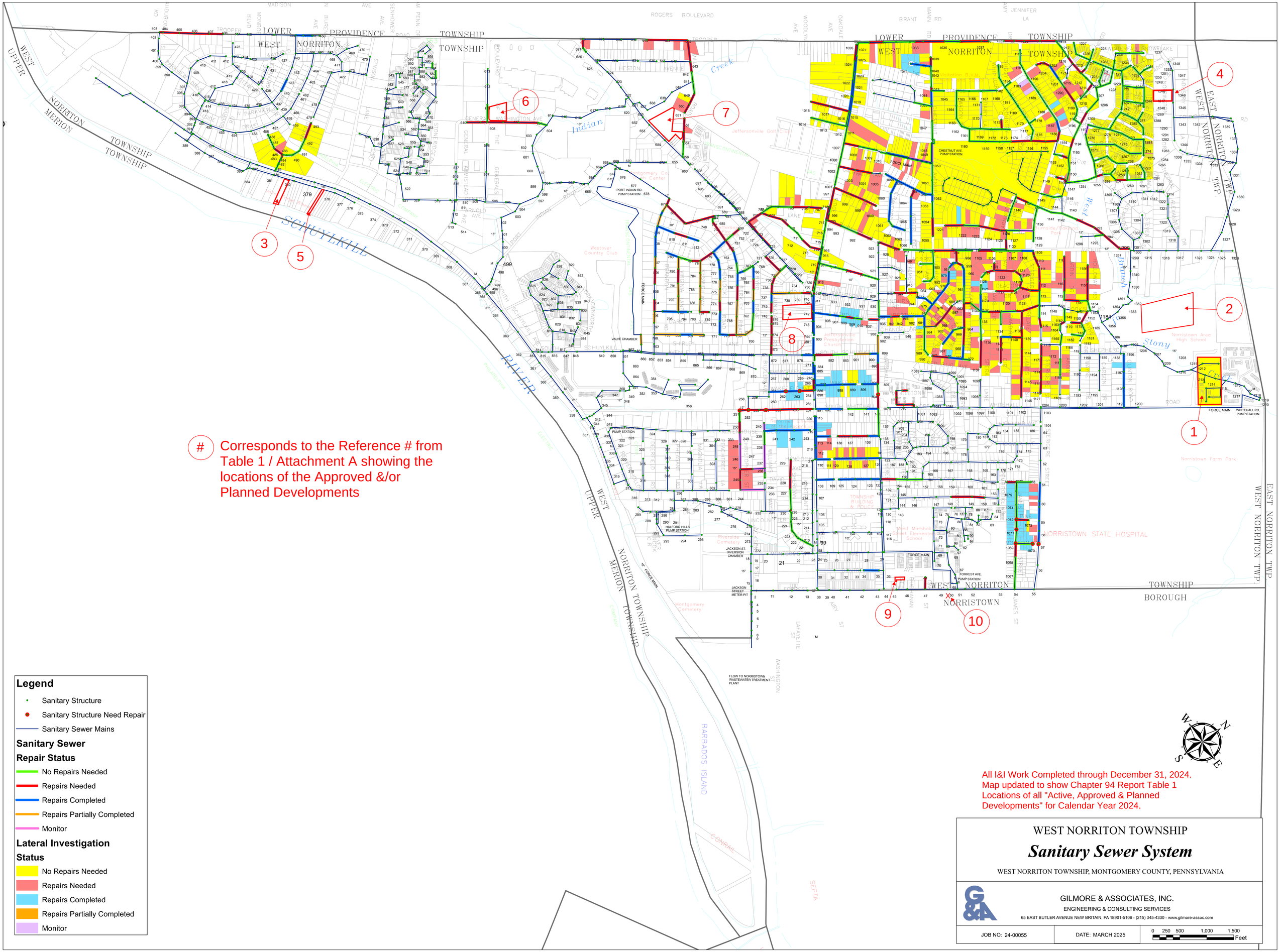
Reference #	Planned Developments											2025		2026		2027		2028		2029	
												EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow
7	Office Building at 239 Egypt Road	Rittenhouse	In Planning Stages	11	3,135	0	-	0	-	11	3,135	0	0	0	0	0	0	11	3,135	0	0
8	TLC Headquarters/Carwash	Port Indian	In Planning Stages	24	6,840	0	-	0	-	24	6,840	0	0	0	0	22	6,270	0	0	2	570
9	1400 Buchannan Avenue	Forrest	In Planning Stages	1	285	0	-	0	-	1	285	1	285	0	0	0	0	0	0	0	0
10	730 Forrest Avenue	Forrest	In Planning Stages	4	1,140	0	-	0	-	4	1,140	4	1,140	0	0	0	0	0	0	0	0
	Fill in Lots and OLDs	-	-					-	-	5	1,425	1	285	1	285	1	285	1	285	1	285
	Planned Sub Total EDUs / Flow									**45**	**12,825**	6	1,710	1	285	23	6,555	12	3,420	3	855

TOTAL	**93**	26,505	22	6,270	11	3,135	35	9,975	22	6,270	3	855

Notes:
(1) Total Flow based on 1 EDU = 285 gpd
(2) Construction previously in Progress, Currently On Hold

ATTACHMENT B

SANITARY SEWER SYSTEM MAP



Corresponds to the Reference # from Table 1 / Attachment A showing the locations of the Approved &/or Planned Developments

Legend

- Sanitary Structure
- Sanitary Structure Need Repair
- Sanitary Sewer Mains

Sanitary Sewer Repair Status

- No Repairs Needed
- Repairs Needed
- Repairs Completed
- Repairs Partially Completed
- Monitor

Lateral Investigation Status

- No Repairs Needed
- Repairs Needed
- Repairs Completed
- Repairs Partially Completed
- Monitor

All I&I Work Completed through December 31, 2024.
Map updated to show Chapter 94 Report Table 1 Locations of all "Active, Approved & Planned Developments" for Calendar Year 2024.

WEST NORRITON TOWNSHIP

Sanitary Sewer System

WEST NORRITON TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES
65 EAST BUTLER AVENUE NEW BRITAIN, PA 18901-5106 - (215) 345-4330 - www.gilmore-assoc.com

JOB NO: 24-00055 | DATE: MARCH 2025 | 0 250 500 1,000 1,500 Feet

ATTACHMENT C

SANITARY SEWER SYSTEM

MONITORING, MAINTENANCE, REPAIR & REHABILITATION

SANITARY SEWER SYSTEM
MONITORING, MAINTENANCE, REPAIR & REHABILITATION

Pump Stations

West Norriton Township (WNT) currently performs routine maintenance on all pump stations owned and operated. Routine maintenance of the pump stations generally includes, but is not limited to, the following tasks:

- Inspected daily
- Wet wells cleaned
- Floats cleaned
- Standby pumps exercised
- Pumps lubricated
- Filter(s) cleaned
- Compressor tank drained of condensation and inspected
- Oil and coolant checked in generators
- Exercise generators
- Exercise alarms
- Bubbler system and sump pumps inspected
- Grease removed
- Basket cleaned
- Building(s) cleaned
- Grounds maintained

Specific maintenance performed and improvements made on the pump stations during 2024 can be found within Attachment D, “Pump Station Information”.

Collection System

WNT is continuously working to identify and remove Inflow & Infiltration (I&I) from its sanitary sewer system. The Sanitary Sewer System Map, Attachment B, identifies the sewers and manholes that were televised and repaired to date through 2024. Needed repairs to the sanitary sewers and manholes are continuously being investigated and prioritized as televising/repairs occur. Significant corrective repair efforts commenced during 2017 and continued through 2022. Although minimal televising work was performed in 2024, the Township plans to continue to televise/repair the collection system as budget allows. WNT has worked with various contractors as needed for repairing mains/laterals, predominantly utilizing trenchless technologies such as grouting and cured-in-place pipe (CIPP) repair liners. The Township also works with contractors as needed when unanticipated work arises.

Since significant progress has been made by WNT to reduce I&I in the system and there is no more evidence that the sanitary sewer system is hydraulically overloaded, DEP has removed formal CAP/CMP oversight. WNT will continue to work with DEP to manage connections. Though the formal CAP/CMP is removed, WNT is still committed to continue with I&I remediation as funding is available. WNT is also committed to eliminating all illegal connections to the system, such as sump pumps, rainwater conductors, and deficient laterals. WNT will continue inspections of properties during the home sale process to locate any potential remaining connections.

ATTACHMENT D

PUMP STATION INFORMATION

PUMP STATION INFORMATION

The Township owns and maintains six (6) pump stations within the existing collection system:

- Rittenhouse Pump Station
- Whitehall Pump Station
- Forrest Avenue Pump Station
- Port Indian Pump Station
- Chestnut Avenue Pump Station
- Halford Hills Pump Station

1. Rittenhouse Pump Station: Originally constructed in 1965, was comprised of three (3)-75 hp pumps, each capable of 1,750 gpm. The pump station was configured in a wet/well dry well orientation. This station was upgraded circa 1983 and 1995, each time with larger pumps to accommodate additional flow. A new submersible pump station with an emergency generator was constructed in 2015 on the same site. The firm pumping capacity for the new pump station is 3,680 gallons per minute (gpm) (5.3 mgd) with two pumps operating. The system has a standard alarm system with a dialer to notify the Township of any problems.

2. Whitehall Pump Station: Constructed in 1965, is comprised of three (3)-60 hp pumps, each capable of 950 gpm. This station was upgraded in 1995 with pumps relocated from Rittenhouse Pump Station, each pump is 100 hp and capable of 1,750 gpm as part of the upgrade. PA DEP Water Quality Management (WQM) permit application for Whitehall Pump Station is approved. Project is currently on hold until funding is available.

3. Forrest Avenue Pump Station: Constructed in the 1960s, was comprised of two (2)-50 hp pumps, each capable of 600 gpm. This station was upgraded in the 1980s with the addition of an emergency generator. Pumps were rebuilt in 2013. The station was renovated in 2021 for safety concerns and replaced with two (2)-15 hp pumps, each capable of 600 gpm.

4. Port Indian Pump Station: Constructed in the 1990s, is comprised of two (2)-40 hp pumps, each capable of 1,000 gpm. Pumps were rebuilt in 2013.

5. Chestnut Avenue Pump Station: Constructed in the 1970s, is comprised of two (2)-15 hp pumps, each capable of 150 gpm. This pump station was replaced in 2004 with a new station with two (2)-20 hp pumps, capable of 180 gpm and an emergency generator.

6. Halford Hills Pump Station: Constructed in the 1970s, is comprised of two (2)-5 hp pumps, each capable of 25 gpm.

The following tables represent pump run times and flows for the six (6) collection system pump stations operated by the Township. Flow data has been included in the appendices to show the five (5) year summary of Rittenhouse Pump Station and Jackson Street flows to NMWA.

TABLE 4
PUMP STATION INFORMATION
WEST NORRITON TOWNSHIP
2024

Name and Location of Pumping Station	Installation / Expansion Date	Number & Size of Pumps	Pump Manufacturer	Drive Type	Capacity (gpm) each Pump	Maximum Pumping Capacity	Flow Meter	Standby Generator	Estimated Connected EDUs	Flow (mgd) 2024 Monthly Average / Peak	Additional EDUs Projected in Next 2 Years	Projected Flow (mgd) in Next 2 Years Average / Peak
Rittenhouse Boulevard	2015	3 Pumps 125 hp each	Fairbanks-Morse	Variable	2500 gpm @124 ft. TDH	3,680 gpm - 5.3 mgd with 2 pumps	Yes	Yes	3,200	2.259 / 3.761	25 EDUs / 7,125 gpd / 0.0071 mgd	2.2661 / 3.7681
Whitehall Road	1994	3 Pumps 100 hp each	Fairbanks-Morse	Variable	1750 gpm @220 ft. TDH	2625 gpm - 3.78 mgd with 2 pumps	Yes	Yes	1,598	0.542 / 1.035	1 EDUs / 285 gpd / 0.0003 mgd	0.5423 / 1.0353
Port Indian Road	1999	2 Pumps 40 hp each	Fairbanks-Morse	Fixed	1000 gpm @113 ft. TDH	1000 gpm -1.44 mgd	Yes	Yes	1,230	0.331 / 0.743	0 EDUs / 0 gpd / 0.000 mgd	0.331 / 0.743
Forest Avenue	2021	2 Pumps 15 hp each	Fairbanks Nijhuis	Fixed	600 gpm @63 ft. TDH	600 gpm - 0.864 mgd	Yes	Yes	530	0.162 / 0.435	5 EDUs / 1,425 gpd / 0.0014 mgd	0.1634 / 0.4364
Chestnut Avenue	2004	2 Pumps 20 hp each	Hydromatic	Fixed	180 gpm @30 ft. TDH	180 gpm - 0.259 mgd	Yes	Yes	280	0.066 / 0.113	0 EDUs / 0 gpd / 0.000 mgd	0.066 / 0.113
Halford Hills	1995	2 Pumps 5 hp each	Hydromatic	Fixed	25 gpm @50 ft. TDH	25 gpm - 0.036 mgd	No	No	10	0.0022 / 0.0048	0 EDUs / 0 gpd / 0.000 mgd	0.0022 / 0.0048

1 EDU = 285 gpd

TABLE 5
PUMP STATIONS MONTHLY AVERAGE DAILY FLOWS
WEST NORRITON TOWNSHIP
2024

Month	Rittenhouse Blvd (gpd)	Whitehall Road (gpd)	Port Indian Road (gpd)	Forest Avenue (gpd)	Chestnut Avenue (gpd)	Halford Hills (gpd)
January	3,760,878	1,035,250	742,600	435,389	112,791	2,593
February	2,718,790	717,379	421,762	299,758	84,815	1,684
March	3,404,195	962,677	633,141	188,686	107,761	2,176
April	3,305,018	861,633	595,442	183,727	100,255	2,114
May	2,281,918	465,000	243,411	109,147	59,315	2,014
June	1,813,460	368,200	201,543	96,045	49,809	2,030
July	1,754,267	365,258	201,872	99,134	49,573	1,749
August	1,909,697	420,387	242,896	108,056	55,265	1,754
September	1,639,127	315,200	164,699	103,942	42,526	2,270
October	1,536,539	287,516	153,160	106,573	36,044	1,889
November	1,139,650	299,700	162,482	101,876	35,925	4,833
December	1,849,081	404,097	203,335	110,503	52,995	1,636
Average	2,259,385	541,858	330,529	161,903	65,590	2,228
Peak	3,760,878	1,035,250	742,600	435,389	112,791	4,833

2024 Rittenhouse Pump Station Annual Report

West Norriton Township

Montgomery County, Pennsylvania

MONTH	PUMP #1		PUMP #2		PUMP #3		PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GALLONS	GAL/DAY
January	52.20	1.68	-	-	51.94	1.68	112,826,330	3,760,878
February	34.01	1.17	-	-	34.00	1.17	78,844,920	2,718,790
March	44.57	1.44	-	-	46.78	1.51	105,530,036	3,404,195
April	42.42	1.41	-	-	44.10	1.47	99,150,552	3,305,018
May	36.12	1.17	0.74	0.37	36.60	1.18	68,457,545	2,281,918
June	26.83	0.89	-	-	27.29	0.91	54,403,812	1,813,460
July	29.83	0.96	-	-	29.72	0.96	54,382,280	1,754,267
August	29.55	0.95	5.62	0.47	30.88	1.00	59,200,592	1,909,697
September	25.00	0.83	0.55	0.28	25.27	0.84	49,173,812	1,639,127
October	26.64	0.86	-	-	26.42	0.85	46,923,668	1,536,539
November	22.84	0.76	-	-	23.25	0.78	34,189,511	1,139,650
December	27.83	0.90	8.84	0.55	27.63	0.89	57,321,502	1,849,081

P#2 August Data based on 8/20-8/31 hours.

P#2 Sept. Data based on 9/3-9/4 hours.

Annual Average Month	**2,259,385**
Peak Month	3,760,878
Peaking Factor	1.66

2024 Whitehall Road Pump Station Annual Report

West Norriton Township

Montgomery County, Pennsylvania

MONTH	PUMP #1		PUMP #2		PUMP #3		PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GALLON	GAL/DAY
January	367.55	11.86	-	-	32.73	1.06	28,987,000	1,035,250
February	255.12	8.80	195.13	6.73	23.10	0.80	20,804,000	717,379
March	277.40	8.95	270.73	8.73	26.68	0.86	29,843,000	962,677
April	277.17	9.24	273.59	9.12	27.88	0.93	25,849,000	861,633
May	268.60	8.66	265.23	8.56	24.09	0.78	14,415,000	465,000
June	217.09	7.24	225.02	7.50	22.82	0.76	11,046,000	368,200
July	244.73	7.89	239.19	7.72	25.95	0.84	11,323,000	365,258
August	266.15	8.59	265.33	8.56	26.51	0.86	13,032,000	420,387
September	224.42	7.48	221.06	7.37	22.61	0.75	9,456,000	315,200
October	263.35	8.50	230.82	7.45	25.01	0.81	8,913,000	287,516
November	249.50	8.32	248.31	8.28	25.14	0.84	8,991,000	299,700
December	278.60	8.99	218.32	7.04	24.95	0.80	12,527,000	404,097
							Annual Average Month	541,858
							Peak Month	1,035,250
							Peaking Factor	1.91

2024 Port Indian Pump Station Annual Report

West Norriton Township

Montgomery County, Pennsylvania

MONTH	PUMP #1		PUMP #2		PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GALLONS	GAL/DAY
January	230.95	7.45	161.59	5.21	20,792,796	742,600
February	119.46	4.12	94.38	3.25	12,231,109	421,762
March	-	-	284.99	9.19	19,627,361	633,141
April	-	-	284.93	9.50	17,863,273	595,442
May	-	-	118.64	3.83	7,545,745	243,411
June	36.54	1.22	40.99	1.37	6,046,288	201,543
July	49.65	1.60	50.44	1.63	6,258,018	201,872
August	64.56	2.08	56.51	1.82	7,529,778	242,896
September	36.96	1.23	31.61	1.05	4,940,978	164,699
October	39.03	1.26	34.19	1.10	4,747,959	153,160
November	42.74	1.42	37.36	1.25	4,874,472	162,482
December	57.09	1.84	49.68	1.60	6,303,379	203,335
					Annual Average Month	**330,529**
					Peak Month	742,600
					Peaking Factor	2.25

2024 Forrest Avenue Pump Station Annual Report

West Norriton Township

Montgomery County, Pennsylvania

MONTH	PUMP #1		PUMP #2		PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GALLON	GAL/DAY
January	19.52	0.63	19.42	0.63	12,190,884	435,389
February	14.35	0.49	11.89	0.41	8,692,970	299,758
March	8.59	0.28	8.57	0.28	5,849,252	188,686
April	8.04	0.27	8.10	0.27	5,511,823	183,727
May	5.23	0.17	5.21	0.17	3,383,567	109,147
June	3.93	0.13	3.84	0.13	2,881,355	96,045
July	4.70	0.15	4.27	0.14	3,073,164	99,134
August	5.22	0.17	5.29	0.17	3,349,729	108,056
September	4.30	0.14	4.33	0.14	3,118,271	103,942
October	4.99	0.16	4.99	0.16	3,303,773	106,573
November	4.75	0.16	4.73	0.16	3,056,265	101,876
December	5.12	0.17	5.13	0.17	3,425,593	110,503
					Annual Average Month	**161,903**
					Peak Month	435,389
					Peaking Factor	2.69

2024 Chestnut Avenue Pump Station Annual Report

West Norriton Township

Montgomery County, Pennsylvania

MONTH	PUMP #1		PUMP #2		PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GALLON	GAL/DAY
January	205.39	6.63	268.97	8.68	3,270,941	112,791
February	153.33	5.29	180.31	6.22	2,459,640	84,815
March	209.41	6.76	259.66	8.38	3,340,584	107,761
April	229.4	7.65	199.63	6.65	3,007,640	100,255
May	123.35	3.98	123.89	4.00	1,838,772	59,315
June	87.5	2.92	85.46	2.85	1,494,274	49,809
July	87.26	2.81	88.58	2.86	1,536,773	49,573
August	107.50	3.47	108.11	3.49	1,713,204	55,265
September	66.10	2.20	70.37	2.35	1,275,772	42,526
October	60.54	1.95	65.26	2.11	1,117,375	36,044
November	63.07	2.10	66.23	2.21	1,077,747	35,925
December	105.99	3.42	97.76	3.15	1,642,852	52,995
					Annual Average Month	**65,590**
					Peak Month	112,791
					Peaking Factor	1.72

2024 Halford Hills Estates Pump Station Annual Report

West Norriton Township

Montgomery County, Pennsylvania

MONTH	PUMP #1		PUMP #2		PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GALLON	GAL/DAY
January	34.29	1.11	19.29	0.62	80,370	2,593
February	20.59	0.71	11.96	0.41	48,825	1,684
March	28.55	0.92	16.42	0.53	67,455	2,176
April	26.73	0.89	15.55	0.52	63,420	2,114
May	26.06	0.87	14.21	0.47	60,405	2,014
June	27.45	0.91	13.14	0.44	60,885	2,030
July	23.75	0.77	12.40	0.40	54,225	1,749
August	23.00	0.74	13.24	0.43	54,360	1,754
September	34.12	1.14	11.27	0.38	68,085	2,270
October	26.90	0.87	12.13	0.39	58,545	1,889
November	80.28	2.68	16.38	0.55	144,990	4,833
December	21.68	0.70	12.13	0.39	50,715	1,636
					Annual Average Month	**2,228**
					Peak Month	4,833
					Peaking Factor	2.17

2024 Jackson Street Metering Pit Annual Report

West Norriton Township

Montgomery County, Pennsylvania

MONTH	TOTAL FLOW	
	GALLONS	GAL/DAY
January	4,982,000	160,710
February	11,450,000	394,828
March	6,762,000	218,129
April	4,420,000	147,333
May	4,449,000	143,516
June	5,662,000	188,733
July	6,402,000	206,516
August	6,525,000	210,484
September	5,497,000	183,233
October	6,566,000	211,806
November	10,418,000	347,267
December	4,643,000	149,774
Annual Average Month		**213,527**
Peak Month		394,828
Peaking Factor		1.85

2024 Montgomery Avenue Metering Pit Annual Report

West Norriton Township

Montgomery County, Pennsylvania

PERIODS	TOTAL FLOW	
	GALLONS	GAL/DAY
January	20,285,181	699,489
February	24,322,540	838,708
March	28,996,762	935,379
April	22,709,240	756,975
May	19,408,707	626,087
June	12,404,400	413,480
July	11,852,293	382,332
August	14,146,707	456,345
September	9,706,517	323,551
October	8,765,919	282,772
November	5,207,801	173,593
December	16,362,391	527,819
Annual Average Month		**534,711**
Peak Month		935,379
Peaking Factor		1.75

ATTACHMENT E

MONTHLY ADF TO NMWA

TABLE 6
2024 TOTAL FLOW TO NORRISTOWN
WEST NORRITON TOWNSHIP

Average Daily Flow	Rittenhouse Blvd Pump Station (gpd)	Jackson Street Pit (gpd)	Total Flow to Norristown (gpd)
January	3,760,878	160,710	3,921,588
February	2,718,790	394,828	3,113,618
March	3,404,195	218,129	3,622,324
April	3,305,018	147,333	3,452,351
May	2,281,918	143,516	2,425,434
June	1,813,460	188,733	2,002,193
July	1,754,267	206,516	1,960,783
August	1,909,697	210,484	2,120,181
September	1,639,127	183,233	1,822,360
October	1,536,539	211,806	1,748,345
November	1,139,650	347,267	1,486,917
December	1,849,081	149,774	1,998,855
Total Yearly Flow (gpd)	27,112,620	2,562,329	29,674,949
Average Daily Flow (gpd)	2,259,385	213,527	2,472,912

Table 7
Average Daily Flow to NMWA (2020 to 2024)
West Norriton Township

Rittenhouse Pump Station

Month	2020	2021	2022	2023	2024
January	2,554,344	2,397,567	1,899,742	3,590,791	3,760,878
February	2,597,406	2,798,142	2,212,786	3,034,541	2,718,790
March	2,731,650	3,159,677	2,378,867	3,330,446	3,404,195
April	3,035,133	2,263,223	3,328,400	2,607,357	3,305,018
May	2,510,733	1,861,710	2,258,133	2,669,548	2,281,918
June	1,746,300	2,249,900	1,692,820	2,285,900	1,813,460
July	2,038,086	2,204,000	1,364,994	2,907,749	1,754,267
August	2,340,204	2,036,968	1,334,526	2,829,395	1,909,697
September	1,473,733	2,917,066	1,451,550	2,632,489	1,639,127
October	1,601,000	1,963,161	1,929,745	2,269,911	1,536,539
November	2,161,667	1,787,767	1,781,123	2,009,281	1,139,650
December	3,094,395	1,495,697	2,663,687	3,202,362	1,849,081
Total flow (gpd)	**27,884,651**	**27,134,878**	**24,296,373**	**33,369,770**	**27,112,620**
Average daily (gpd)	**2,323,721**	**2,261,240**	**2,024,698**	**2,780,814**	**2,259,385**

Jackson Street

Month	2020	2021	2022	2023	2024
January	146,924	249,287	349,652	210,837	160,710
February	240,762	297,296	379,268	193,932	394,828
March	155,445	520,939	310,652	231,477	218,129
April	256,957	406,403	151,590	1,989	147,333
May	275,416	322,313	94,193	150,129	143,516
June	227,427	216,143	139,353	211,067	188,733
July	258,561	216,429	126,035	87,581	206,516
August	272,626	255,432	134,913	48,871	210,484
September	224,830	230,053	194,775	92,100	183,233
October	206,658	400,671	230,272	281,258	211,806
November	213,640	258,747	225,093	390,433	347,267
December	260,271	315,809	148,139	279,868	149,774
Total flow (gpd)	**2,739,516**	**3,689,522**	**2,483,935**	**2,179,541**	**2,562,329**
Average daily (gpd)	**228,293**	**307,460**	**206,995**	**181,628**	**213,527**

Rainfall

	2020	2021	2022	2023	2024
Average daily to NMWA (gpd)	2,552,014	2,568,700	2,231,692	2,962,443	2,472,912
Total Precipitation (inch)	57.18	53.32	48.13	50.92	41.22

ATTACHMENT F

INDUSTRIAL WASTES

INDUSTRIAL WASTES

All industrial wastes is required to meet the Industrial Pretreatment Standards of NWMA.

ATTACHMENT G

FLOW METER CALIBRATION REPORTS

TheMeterGuy, LLC.
5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (570) 317-5734

SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 02/27/2024
METER#: AB
LOCATION: RITTENHOUSE PUMP STATION
SERIAL #: 356807
MANUFACTURER: SPARLING/CHESSELL
RECORDER: 392
TRANSMITTER: FM656-185-1A3-0
PRIMARY: MAG
MAXIMUM CAPACITY: 10,000 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
ERROR: 0.0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
ERROR: 0.0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
CHECKED PROGRAMMING
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE: BRANDON
PERSON SEEN: NONE
copies- MCRISWELL@WNTWP.COM

TheMeterGuy, LLC.
5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (570) 317-5734

SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 02/27/2024
METER#: AC
LOCATION: WHITEHALL ROAD
SERIAL #: 8503A0455
MANUFACTURER: FISCHER & PORTER
RECORDER: 51C1102DZ
TRANSMITTER: 50PZ1112
PRIMARY: MAG
MAXIMUM CAPACITY: 3000 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
ERROR: 0.0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
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TRANSMITTER CALIBRATION
SIMULATED HEAD RISES & FLOW MEASUREMENTS
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PHONE: (570) 317-5734

SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 02/27/2024
METER#: N/A
LOCATION: FORREST AVE
SERIAL #: S6015D16000 / TA040B23428
MANUFACTURER: ENDRESS & HAUSER
RECORDER: ECOGRAPH T RSG35
TRANSMITTER: PROMAG
PRIMARY: 8”
MAXIMUM CAPACITY: 1500 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

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SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 02/27/2024
METER#: AD
LOCATION: PORT INDIAN
SERIAL #: 160612-FA-18621692
MANUFACTURER: FISCHER & PORTER/OMEGA
RECORDER: 1392
TRANSMITTER: FDT-21W
PRIMARY: 8"
MAXIMUM CAPACITY: 1500 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
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PHONE: (570) 317-5734

SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 02/27/2024
METER#: AE
LOCATION: CHESTNET STREET
SERIAL #: N28401/20/4
MANUFACTURER: ABB
RECORDER: 1900 COMMANDER
TRANSMITTER: MAGMASTER
PRIMARY: 4"
MAXIMUM CAPACITY: 500 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION **CHECKED AT:** 0 & OPERATING RATE
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SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 02/27/2024
METER#: AF
LOCATION: MONTGOMERY STREET
SERIAL #: US21223-001-01-01-37-07
MANUFACTURER: E&H/CHESSELL
RECORDER: 392
TRANSMITTER: FMU 90
PRIMARY: 90° V-NOTCH
MAXIMUM CAPACITY: 1000 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION **CHECKED AT:** 0 & OPERATING RATE
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TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
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SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 02/27/2024
METER#: AA
LOCATION: JACKSON STREET
SERIAL #: 45048050/AKI000950
MANUFACTURER: KROHNE/PARTLOW
RECORDER: MRC 5000
TRANSMITTER: OPTISOUND
PRIMARY: 9" PARHALL
MAXIMUM CAPACITY: 3.5 MGD
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION **CHECKED AT:** OPERATING RATE
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SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 06/03/2024
METER#: AB
LOCATION: RITTENHOUSE PUMP STATION
SERIAL #: 356807
MANUFACTURER: SPARLING/CHESSELL
RECORDER: 392
TRANSMITTER: FM656-185-1A3-0
PRIMARY: MAG
MAXIMUM CAPACITY: 10,000 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
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JEFFERSONVILLE, PA 19403

SERVICE DATE: 06/03/2024
METER#: AC
LOCATION: WHITEHALL ROAD
SERIAL #: 8503A0455
MANUFACTURER: FISCHER & PORTER
RECORDER: 51C1102DZ
TRANSMITTER: 50PZ1112
PRIMARY: MAG
MAXIMUM CAPACITY: 3000 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

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SERVICE REPORT

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JEFFERSONVILLE, PA 19403

SERVICE DATE: 06/03/2024
METER#: N/A
LOCATION: FORREST AVE
SERIAL #: S6015D16000 / TA040B23428
MANUFACTURER: ENDRESS & HAUSER
RECORDER: ECOGRAPH T RSG35
TRANSMITTER: PROMAG
PRIMARY: 8"
MAXIMUM CAPACITY: 1500 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

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METER#: AD
LOCATION: PORT INDIAN
SERIAL #: 160612-FA-18621692
MANUFACTURER: FISCHER & PORTER/OMEGA
RECORDER: 1392
TRANSMITTER: FDT-21W
PRIMARY: 8"
MAXIMUM CAPACITY: 1500 GPM
SERVICE CONTRACT: Quarterly/90

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SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 06/03/2024
METER#: AE
LOCATION: CHESTNET STREET
SERIAL #: N28401/20/4
MANUFACTURER: ABB
RECORDER: 1900 COMMANDER
TRANSMITTER: MAGMASTER
PRIMARY: 4"
MAXIMUM CAPACITY: 500 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

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SERVICE REPORT

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1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 06/03/2024
METER#: AF
LOCATION: MONTGOMERY STREET
SERIAL #: US21223-001-01-01-37-07
MANUFACTURER: E&H/CHESSELL
RECORDER: 392
TRANSMITTER: FMU 90
PRIMARY: 90° V-NOTCH
MAXIMUM CAPACITY: 1000 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION **CHECKED AT:** 0 & OPERATING RATE
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TOTALIZER CALIBRATION **CHECKED AT:** 0 & OPERATING RATE
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TRANSMITTER CALIBRATION
FLOW MEASURMENTS
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SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 06/03/2024
METER#: AA
LOCATION: JACKSON STREET
SERIAL #: 45048050/AKI000950
MANUFACTURER: KROHNE/PARTLOW
RECORDER: MRC 5000
TRANSMITTER: OPTISOUND
PRIMARY: 9" PARHALL
MAXIMUM CAPACITY: 3.5 MGD
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
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FLOW MEASURMENTS
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PHONE: (570) 317-5734

SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 08/27/2024
METER#: AB
LOCATION: RITTENHOUSE PUMP STATION
SERIAL #: 356807
MANUFACTURER: SPARLING/CHESSELL
RECORDER: 392
TRANSMITTER: FM656-185-1A3-0
PRIMARY: MAG
MAXIMUM CAPACITY: 10,000 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
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TOTALIZER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
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TRANSMITTER CALIBRATION
SIMULATED HEAD RISES & ZEROED FLOW
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COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY

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PHONE: (570) 317-5734

SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 08/27/2024
METER#: AC
LOCATION: WHITEHALL ROAD
SERIAL #: 8503A0455
MANUFACTURER: FISCHER & PORTER
RECORDER: 51C1102DZ
TRANSMITTER: 50PZ1112
PRIMARY: MAG
MAXIMUM CAPACITY: 3000 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

TOTALIZER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

TRANSMITTER CALIBRATION
SIMULATED HEAD RISES & ZEROED FLOW
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE: BRANDON
PERSON SEEN: NONE
copies- MCRISWELL@WNTWP.COM

TheMeterGuy, LLC.
5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (570) 317-5734

SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 08/27/2024
METER#: N/A
LOCATION: FORREST AVE
SERIAL #: S6015D16000 / TA040B23428
MANUFACTURER: ENDRESS & HAUSER
RECORDER: ECOGRAPH T RSG35
TRANSMITTER: PROMAG
PRIMARY: 8”
MAXIMUM CAPACITY: 1500 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

TOTALIZER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

TRANSMITTER CALIBRATION
CHECKED PROGRAMMING
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE: BRANDON
PERSON SEEN: NONE
copies- MCRISWELL@WNTWP.COM

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SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 08/27/2024
METER#: AD
LOCATION: PORT INDIAN
SERIAL #: 160612-FA-18621692
MANUFACTURER: FISCHER & PORTER/OMEGA
RECORDER: 1392
TRANSMITTER: FDT-21W
PRIMARY: 8"
MAXIMUM CAPACITY: 1500 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

TOTALIZER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

TRANSMITTER CALIBRATION
CHECKED PROGRAMMING
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE: BRANDON
PERSON SEEN: NONE
copies- MCRISWELL@WNTWP.COM

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PHONE: (570) 317-5734

SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 08/27/2024
METER#: AE
LOCATION: CHESTNET STREET
SERIAL #: N28401/20/4
MANUFACTURER: ABB
RECORDER: 1900 COMMANDER
TRANSMITTER: MAGMASTER
PRIMARY: 4"
MAXIMUM CAPACITY: 500 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION **CHECKED AT:** 0 & OPERATING RATE
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

TOTALIZER CALIBRATION **CHECKED AT:** 0 & OPERATING RATE
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

TRANSMITTER CALIBRATION
CHECKED PROGRAMMING
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE: BRANDON
PERSON SEEN: NONE
copies- MCRISWELL@WNTWP.COM

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PHONE: (570) 317-5734

SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 08/27/2024
METER#: AF
LOCATION: MONTGOMERY STREET
SERIAL #: US21223-001-01-01-37-07
MANUFACTURER: E&H/CHESSELL
RECORDER: 392
TRANSMITTER: FMU 90
PRIMARY: 90° V-NOTCH
MAXIMUM CAPACITY: 1000 GPM
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION **CHECKED AT:** 0 & OPERATING RATE
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

TOTALIZER CALIBRATION **CHECKED AT:** 0 & OPERATING RATE
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

TRANSMITTER CALIBRATION
FLOW MEASURMENTS
ERROR: 1.0% **CORRECTED ACCURACY:** ±2%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE: BRANDON
PERSON SEEN: NONE
copies- MCRISWELL@WNTWP.COM

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PHONE: (570) 317-5734

SERVICE REPORT

WEST NORRITON
1634 WEST MARSHALL STREET
JEFFERSONVILLE, PA 19403

SERVICE DATE: 08/27/2024
METER#: AA
LOCATION: JACKSON STREET
SERIAL #: 45048050/AKI000950
MANUFACTURER: KROHNE/PARTLOW
RECORDER: MRC 5000
TRANSMITTER: OPTISOUND
PRIMARY: 9" PARHALL
MAXIMUM CAPACITY: 3.5 MGD
SERVICE CONTRACT: Quarterly/90

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

TOTALIZER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

TRANSMITTER CALIBRATION
FLOW MEASURMENTS
ERROR: 0.0% **CORRECTED ACCURACY:** ±2%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY

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