



**WEST NORRITON TOWNSHIP  
MONTGOMERY COUNTY, PENNSYLVANIA**

**2022 Municipal Wasteload Management Report  
(Chapter 94 Report)  
For Calendar Year 2021**

**Prepared For:**

**West Norriton Township  
1630 W. Marshall Street  
Jeffersonville, PA 19403**

**February 2022**

**File No. 2022-01213**

**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



1918 TO 2008: CELEBRATING NINETY YEARS OF ENGINEERING EXCELLENCE



## CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

**For Calendar Year: 2021**

- 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:	Jeffersonville, 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			
<p>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))</p> <p><b>Check the appropriate boxes:</b></p> <p><input type="checkbox"/> Line graph for flows attached (<b>Attachment</b> )</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (<b>Attachment</b> )</p> <p><input checked="" type="checkbox"/> Section 1 is not applicable (report is for a collection system).</p>			
<p>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))</p> <p><b>Check the appropriate boxes:</b></p> <p><input type="checkbox"/> Line graph for organic loads attached (<b>Attachment</b> )</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (<b>Attachment</b> )</p> <p><input checked="" type="checkbox"/> Section 2 is not applicable (report is for a collection system).</p>			
<p>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))</p> <p><b>All flow is treated by Norritown Municipal Waste Authority at their wastewater treatment plant. See Attachment E.</b></p>			

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 2021.**

**The sewer in Markley Farms Phase 1 has been dedicated. 2,556 LF of 8" Sewer, 13 manholes)**

**22 new connections (24 EDUs) occurred in 2021. See below and Attachment A - Table 1**

**Markley Farms Phase 2 - 8 new connections**

**Reserve at Stoney Creek - 8 new connections**

**2495 General Armistead (VA Clinic), 48 Potts Ave, 2479 Stinson Ln, 1654 Williams Way, 1630 W. Main St - 1 new connection each**

**2550 Globus Medical - 1 new connection, 3 new EDUs**

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 the 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**

Name of Responsible Official

Signature

**(610) 631-0450**

**February \_\_, 2022**

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.**

Name of Preparer

Signature

**(215) 345-4330**

**February \_\_, 2022**

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 2021		2021 Connections		Remaining EDUs		Projected Buildout Schedule											
Map Reference (1)	Approved Developments			EDUs		Flow		EDUs		Flow		Total		2022		2023		2024		2025		2026	
				EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow
1	The Reserve at Stoney Creek	Whitehall	Under Construction	51	14,535	25	7,125	8	2,280	18	5,130	10	2,850	8	2,280	0	0	0	0	0	0	10	2,850
2	Norristown School District	Whitehall	Approved	10	2,850	0	-	0	0	10	2,850	0	0	0	0	0	0	0	0	0	0	10	2,850
3	Apartments at Schuylkill & Main Street	Rittenhouse	Under Construction	22	6,270	0	-	0	0	22	6,270	0	0	0	0	10	2,850	12	3,420	0	0	0	0
4	Markley Farms	Whitehall	Under Construction	79	22,515	71	20,235	8	2,280	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	2495 General Armistead: VA Outpatient	Rittenhouse	Connected	1	285	0	-	1	285	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	48 Potts Avenue	Chestnut	Connected	1	285	0	-	1	285	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	2479 Stinson Lane	Rittenhouse	Connected	1	285	0	-	1	285	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	1654 Williams Way (Lot 11)	Rittenhouse	Connected	1	285	0	-	1	285	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	2550 General Armistead (Globus)	Rittenhouse	Connected	3	855	0	-	3	855	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	1630 W. Main Street	Jackson	Connected	1	285	0	-	1	285	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Approved Sub Total EDUs / Flow</b>				<b>170</b>	<b>48,450</b>	<b>96</b>	<b>27,360</b>	<b>24</b>	<b>6,840</b>	<b>50</b>	<b>14,250</b>	<b>10</b>	<b>2,850</b>	<b>8</b>	<b>2,280</b>	<b>10</b>	<b>2,850</b>	<b>12</b>	<b>3,420</b>	<b>10</b>	<b>2,850</b>	<b>10</b>	<b>2,850</b>

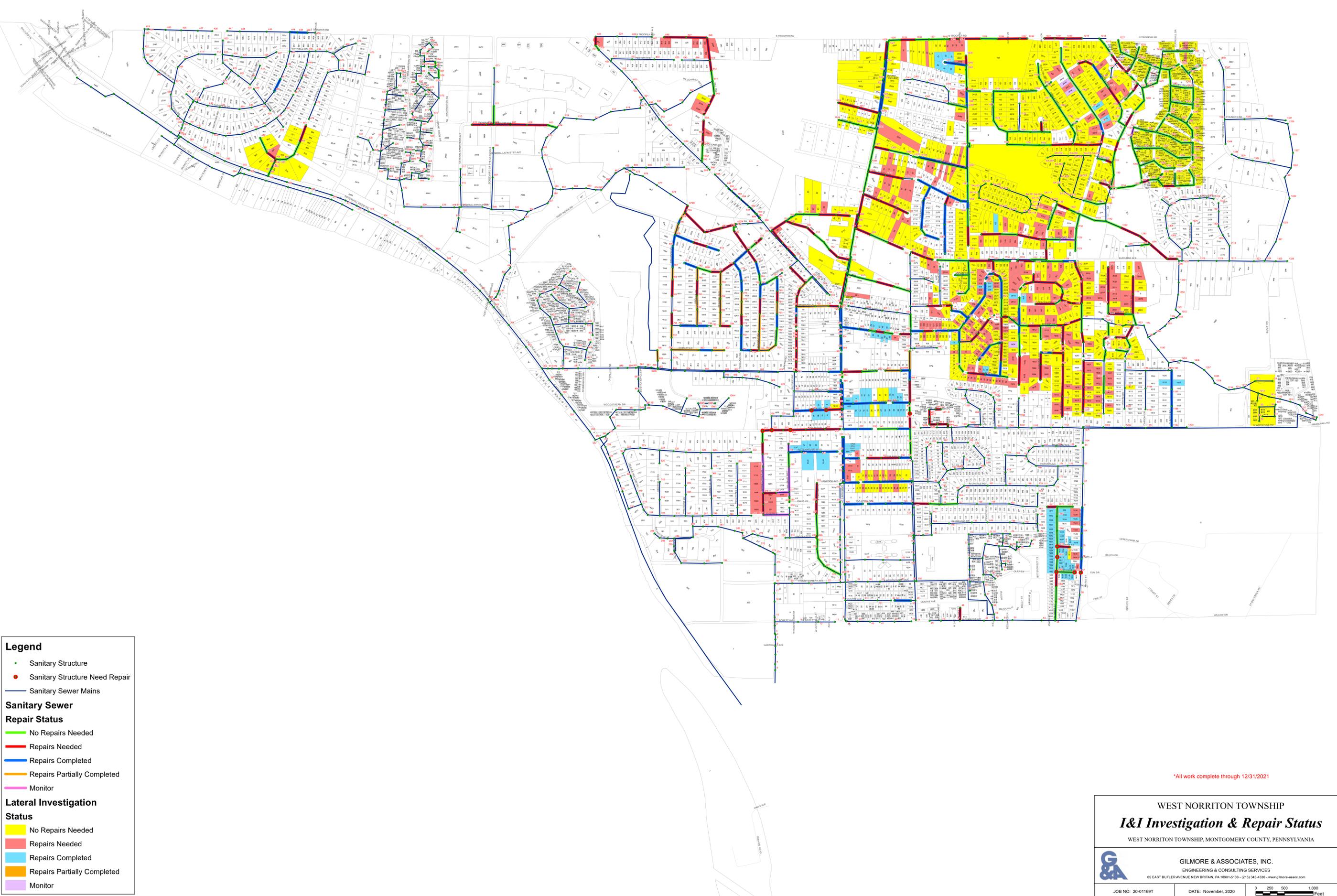
Map Reference (1)	Planned Developments	Drainage Basin	Status	Total Project Connections		Connections Prior to 2021		2021 Connections		Remaining EDUs		2022		2023		2024		2025		2026	
				EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow
11	Office Building at 239 Egypt Road	Rittenhouse	In Planning Stages	11	3,135	0	-	0	-	11	3,135	0	0	0	0	0	0	0	0	11	3,135
12	2580 Industry Lane	Whitehall	In Planning Stages	1	285	0	-	0	-	1	285	1	285	0	0	0	0	0	0	0	0
13	43 W. Indian Lane	Rittenhouse	In Planning Stages	1	285	0	-	0	-	1	285	1	285	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
<b>Planned Sub Total EDUs / Flow</b>										<b>18</b>	<b>5,130</b>	<b>3</b>	<b>855</b>	<b>1</b>	<b>285</b>	<b>1</b>	<b>285</b>	<b>1</b>	<b>285</b>	<b>12</b>	<b>3,420</b>

<b>TOTAL</b>	<b>68</b>	<b>19,380</b>	<b>13</b>	<b>3,705</b>	<b>9</b>	<b>2,565</b>	<b>11</b>	<b>3,135</b>	<b>13</b>	<b>3,705</b>	<b>22</b>	<b>6,270</b>
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**Notes:**  
(1) See Attachment B for Development locations  
(2) Total Flow based on 1 EDU = 285 gpd

**ATTACHMENT B**  
**SANITARY SEWER SYSTEM MAP**



**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 work complete through 12/31/2021

WEST NORRITON TOWNSHIP  
**I&I Investigation & Repair Status**  
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: 20-01169T      DATE: November, 2020      0 250 500 1,000 Feet

**ATTACHMENT C**  
**SANITARY SEWER SYSTEM**  
**MONITORING, MAINTENANCE, REPAIR & REHABILITATION**

## 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 have been 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 have been 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 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.

**ATTACHMENT D**  
**PUMP STATION INFORMATION**

## PUMP STATION INFORMATION

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4. Port Indian Pump Station: Constructed in the 1990s, is comprised of two (2)-40 hp pumps, each capable of 1,000 gpm. Pumps have been 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 pumps, capable of 180 gpm and an emergency generator.
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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 pump station flows for each pumping station.

**ATTACHMENT D  
TABLE 4  
PUMP STATION INFORMATION  
WEST NORRITON TOWNSHIP  
2021**

Name and Location of Pumping Station	Installation / Expansion Date	Number of Pumps	Pump Manufacturer	Drive Type	Capacity (gpm) each Pump	Maximum Pumping Capacity	Flow Meter	Standby Generator	Estimated Connected EDUs	Flow (mgd) 2021 Monthly Average / Peak	Additional EDUs Projected in Next 2 Years	Projected Flow in Next 2 Years (mgd) Average / Peak
Rittenhouse Boulevard	2015	3	Fairbanks-Morse	Variable	2500 gpm @124 ft. TDH	3,680 gpm - 5.3 mgd with 2 pumps	Yes	Yes	3,198	2.261 / 3.160	0 EDUs / 0 gpd / 0.000 mgd	2.261 / 3.160
Chestnut Avenue	2004	2	Hydromatic	Fixed	180 gpm @30 ft. TDH	180 gpm - 0.259 mgd	Yes	Yes	280	0.074/ 0.100	0 EDUs / 0 gpd / 0.000 mgd	0.074/ 0.100
Whitehall Road	1994	3	Fairbanks-Morse	Variable	1750 gpm @220 ft. TDH	2625 gpm - 3.78 mgd with 2 pumps	Yes	Yes	1,588	0.611 / 0.922	18 EDUs / 5,130 gpd / 0.005 mgd	0.616 / 0.927
Forest Avenue	2021	2	Fairbanks Nijhuis	Fixed	600 gpm @63 ft. TDH	600 gpm - 0.864 mgd	Yes	Yes	530	0.147 / 0.225	0 EDUs / 0 gpd / 0.000 mgd	0.147 / 0.225
Port Indian Road	1999	2	Fairbanks-Morse	Fixed	1000 gpm @113 ft. TDH	1000 gpm -1.44 mgd	Yes	Yes	1,230	0.393 / 0.663	0 EDUs / 0 gpd / 0.000 mgd	0.393 / 0.663
Halford Hills	1995	2	Hydromatic	Fixed	25 gpm @50 ft. TDH	25 gpm - 0.036 mgd	No	No	10	0.0021 / 0.0025	0 EDUs / 0 gpd / 0.000 mgd	0.0021 / 0.0025

1 EDU = 285 gpd

**TABLE 5**  
**PUMP STATIONS MONTHLY AVERAGE DAILY FLOWS**  
**WEST NORRITON TOWNSHIP**  
**2021**

<b>Month</b>	<b>Rittenhouse Blvd (gpd)</b>	<b>Whitehall Road (gpd)</b>	<b>Port Indian Road (gpd)</b>	<b>Forest Avenue (gpd)</b>	<b>Chestnut Avenue (gpd)</b>	<b>Halford Hills (gpd)</b>
January	2,397,567	606,587	394,483	168,480	67,823	2,145
February	2,798,142	829,836	597,025	193,800	96,461	2,175
March	3,159,677	921,565	662,774	225,000	99,555	2,200
April	2,263,223	667,570	413,851	180,000	78,347	2,250
May	1,861,710	513,048	291,834	118,800	62,526	2,200
June	2,249,900	536,610	355,917	132,000	66,670	1,900
July	2,204,000	538,171	306,558	99,600	65,110	2,000
August	2,036,968	618,123	305,319	132,600	69,494	1,925
September	2,917,066	582,283	491,507	166,200	82,500	2,525
October	1,963,161	537,552	272,895	125,400	66,603	1,925
November	1,787,767	510,723	398,642	118,200	65,837	2,075
December	1,495,697	480,545	229,688	105,600	62,630	2,175
<b>Average</b>	2,261,240	611,884	393,374	147,140	73,630	2,125

# 2021 Chestnut Avenue Pump Station Annual Report

West Norriton Township  
Montgomery County, Pennsylvania

PERIODS	PUMP #1		PUMP #2		PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GALLON	GAL/DAY
1/1/2021 - 2/1/2021	109.75	3.66	129.97	4.33	2,034,700	67,823
2/1/2021 - 3/1/2021	133.25	4.77	184.20	6.58	2,700,900	96,461
3/1/2021 - 4/1/2021	154.37	4.98	213.20	6.88	3,086,200	99,555
4/1/2021 - 5/1/2021	112.24	3.73	157.13	5.23	2,350,400	78,347
5/1/2021 - 6/1/2021	94.80	3.07	129.60	4.18	1,938,300	62,526
6/1/2021 - 7/1/2021	96.43	3.22	133.80	4.47	2,000,100	66,670
7/1/2021 - 8/1/2021	101.68	3.28	128.23	4.13	2,018,400	65,110
8/1/2021 - 9/1/2021	104.27	3.35	137.70	4.43	2,154,300	69,494
9/1/2021 - 10/1/2021	127.33	4.25	170.79	5.68	2,475,000	82,500
10/1/2021 - 11/1/2021	104.47	3.37	135.20	4.35	2,064,700	66,603
11/1/2021 - 12/1/2021	103.45	3.45	134.10	4.47	1,975,100	65,837
12/1/2021 - 1/1/2022	104.58	3.17	140.52	4.25	2,066,800	62,630
<b>Annual Average Month</b>						<b>73,630</b>
<b>Peak Month</b>						<b>99,555</b>
<b>Peaking Factor</b>						<b>1.35</b>

# 2021 Whitehall Road Pump Station Annual Report

West Norriton Township  
Montgomery County, Pennsylvania

PERIODS	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
1/1/2021 - 2/1/2021	226.70	7.56	238.90	7.96	249.40	8.31	18,197,600	606,587
2/1/2021 - 3/1/2021	235.80	8.42	232.00	8.28	253.80	9.07	23,235,400	829,836
3/1/2021 - 4/1/2021	117.10	3.78	567.80	18.32	103.10	6.87	28,568,500	921,565
4/1/2021 - 5/1/2021	1.20	0.20	358.20	11.93	396.90	13.23	20,027,100	667,570
5/1/2021 - 6/1/2021	147.00	7.35	236.40	7.63	316.40	10.20	15,904,500	513,048
6/1/2021 - 7/1/2021	290.52	9.68	244.20	8.13	133.10	4.43	16,098,300	536,610
7/1/2021 - 8/1/2021	267.90	8.60	257.00	8.65	245.10	7.92	16,683,300	538,171
8/1/2021 - 9/1/2021	269.80	8.70	294.80	9.50	319.70	10.32	19,161,800	618,123
9/1/2021 - 10/1/2021	203.00	6.77	373.60	12.45	141.70	8.33	17,468,500	582,283
10/1/2021 - 11/1/2021	245.10	7.90	433.90	14.00	64.20	7.13	16,664,100	537,552
11/1/2021 - 12/1/2021	241.40	8.05	480.00	16.00	0.00	0.00	15,321,700	510,723
12/1/2021 - 1/1/2022	531.50	16.10	0.00	0.00	259.50	7.85	15,858,000	480,545
<b>Annual Average Month</b>							611,884	
<b>Peak Month</b>							921,565	
<b>Peaking Factor</b>							1.51	

Months	Comments
January	Pump #2 returned to service. Comminutor out of service
April	Pump #1 taken out of service 4/6. New heater installed.
May	Pump #1 back online. Pump #3 fail, started next day. New comminutor is needed.
June	Pump #3 out of service 6/8 - 6/18. New air compressor installed on Pump #3 on 6/18.
July - October	New comminutor needed. Stairwell railings need to be fixed.
October	Pump #3 pulled for repair 10/9
November	Pump #3 out of service.
December	Pump #3 back in service 12/1. Pump #2 out of service.

# 2021 Port Indian Pump Station Annual Report

West Norriton Township  
Montgomery County, Pennsylvania

PERIODS	PUMP #1		PUMP #2		PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GALLON	GAL/DAY
1/1/2021 - 2/1/2021	130.39	4.35	117.20	3.91	11,834,500	394,483
2/1/2021 - 3/1/2021	174.61	6.25	152.25	5.45	16,716,700	597,025
3/1/2021 - 4/1/2021	225.85	7.28	194.11	6.25	20,546,000	662,774
4/1/2021 - 5/1/2021	156.36	5.22	109.71	3.67	12,415,540	413,851
5/1/2021 - 6/1/2021	96.85	3.12	78.07	2.52	9,046,851	291,834
6/1/2021 - 7/1/2021	101.73	3.38	91.00	3.03	10,077,500	355,917
7/1/2021 - 8/1/2021	177.85	5.73	14.60	2.92	9,503,300	306,558
8/1/2021 - 9/1/2021	188.73	6.10	0	0	9,464,900	305,319
9/1/2021 - 10/1/2021	277.36	9.18	0	0	14,745,200	491,507
10/1/2021 - 11/1/2021	104.16	3.37	56.99	2.47	8,459,746	272,895
11/1/2021 - 12/1/2021	83.11	2.77	71.36	2.38	11,959,246	398,642
12/1/2021 - 1/1/2022	83.58	2.53	70.58	2.13	7,579,711	229,688
<b>Annual Average Month</b>						<b>393,374</b>
<b>Peak Month</b>						<b>662,774</b>
<b>Peaking Factor</b>						<b>1.68</b>

Date	Comments
July - October	Pump #2 out of service 7/7, return to service 10/8.

# 2021 Forest Avenue Pump Station Annual Report

West Norriton Township  
Montgomery County, Pennsylvania

PERIODS	PUMP #1			PUMP #2			PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	GAL/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GAL/DAY	GALLON	GAL/DAY
1/1/2021 - 2/1/2021	140.40	4.68	168,480	0.00	0.00	0	5,054,400	168,480
2/1/2021 - 3/1/2021	150.60	5.38	193,800	0.00	0.00	0	5,421,600	193,800
3/1/2021 - 4/1/2021	194.00	6.25	225,000	0.00	0.00	0	6,984,000	225,000
4/1/2021 - 5/1/2021	143.40	4.78	172,200	6.50	0.22	7,800	5,396,400	180,000
5/1/2021 - 6/1/2021	102.10	3.30	118,800	0.00	0.00	0	3,675,600	118,800
6/1/2021 - 7/1/2021	109.70	3.67	132,000	0.00	0.00	0	3,949,200	132,000
7/1/2021 - 8/1/2021	53.70	1.73	62,400	10.30	1.03	37,200	2,304,000	99,600
8/1/2021 - 9/1/2021	53.10	1.70	61,200	61.30	1.98	71,400	4,118,400	132,600
9/1/2021 - 10/1/2021	70.80	2.33	84,000	69.40	2.28	82,200	5,047,200	166,200
10/1/2021 - 11/1/2021	53.70	1.73	62,400	51.10	1.75	63,000	3,772,800	125,400
11/1/2021 - 12/1/2021	49.60	1.65	59,400	49.20	1.63	58,800	3,556,800	118,200
12/1/2021 - 1/1/2022	48.70	1.48	53,400	48.20	1.45	52,200	3,488,400	105,600
							<b>Annual Average Month</b>	<b>147,140</b>
							<b>Peak Month</b>	<b>225,000</b>
							<b>Peaking Factor</b>	<b>1.53</b>

Months	Comments
January - May	Pump #2 out for service.
April	Pump #2 in service 4/9-4/11 while Pump #1 cleaned
July	New generator in service
September	Pumps tripped out with Hurricane Ida, but didn't call for pump failure alarm

# 2021 Halford Hills Estates Pump Station Annual Report

West Norriton Township  
Montgomery County, Pennsylvania

PERIODS	PUMP #1			PUMP #2			PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	GAL/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GAL/DAY	GALLON	GAL/DAY
1/1/2021 - 2/1/2021	27.85	0.93	1,395	14.94	0.50	750	64,185	2,145
2/1/2021 - 3/1/2021	25.99	0.93	1,400	14.41	0.52	775	60,600	2,175
3/1/2021 - 4/1/2021	29.05	0.93	1,400	16.55	0.53	800	68,400	2,200
4/1/2021 - 5/1/2021	29.24	0.97	1,450	16.12	0.53	800	68,040	2,250
5/1/2021 - 6/1/2021	29.15	0.95	1,425	15.83	0.52	775	67,475	2,200
6/1/2021 - 7/1/2021	26.38	0.78	1,175	14.27	0.48	725	60,975	1,900
7/1/2021 - 8/1/2021	27.08	0.87	1,300	14.70	0.47	700	62,675	2,000
8/1/2021 - 9/1/2021	25.45	0.82	1,225	14.44	0.47	700	59,835	1,925
9/1/2021 - 10/1/2021	30.26	1	1,500	21.68	0.68	1,025	77,910	2,525
10/1/2021 - 11/1/2021	25.98	0.83	1,250	14.33	0.45	675	60,465	1,925
11/1/2021 - 12/1/2021	26.64	0.88	1,325	15.26	0.50	750	62,850	2,075
12/1/2021 - 1/1/2022	30.60	0.93	1,400	17.10	0.52	775	71,550	2,175
<b>Annual Average Month</b>								<b>2,125</b>
<b>Peak Month</b>								<b>2,525</b>
<b>Peaking Factor</b>								<b>1.19</b>

# 2021 Rittenhouse Pump Station Annual Report

West Norriton Township  
Montgomery County, Pennsylvania

PERIODS	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
1/1/2021 - 2/1/2021	233.00	7.77	232.60	7.75	224.40	7.48	71,927,000	2,397,567
2/1/2021 - 3/1/2021	279.10	9.97	266.10	9.50	272.30	9.72	78,348,000	2,798,142
3/1/2021 - 4/1/2021	334.20	10.78	315.30	10.17	312.70	10.08	97,950,000	3,159,677
4/1/2021 - 5/1/2021	128.40	6.77	293.00	9.77	282.30	9.42	67,896,700	2,263,223
5/1/2021 - 6/1/2021	0.00	0.00	309.60	9.98	299.70	9.67	57,713,000	1,861,710
6/1/2021 - 7/1/2021	0.00	0.00	334.70	11.17	329.30	10.98	67,497,000	2,249,900
7/1/2021 - 8/1/2021	0.00	0.00	350.80	11.32	337.40	10.88	68,323,000	2,204,000
8/1/2021 - 9/1/2021	0.00	0.00	322.9	10.42	321.5	10.37	63,146,000	2,036,968
9/1/2021 - 10/1/2021	0.00	0.00	386.4	12.85	392.6	13.05	87,512,000	2,917,066
10/1/2021 - 11/1/2021	0.00	0.00	323.60	10.43	318.60	10.28	60,858,000	1,963,161
11/1/2021 - 12/1/2021	0.00	0.00	326.40	10.88	412.00	13.73	53,633,000	1,787,767
12/1/2021 - 1/1/2022	0.00	0.00	221.50	6.70	513.20	15.55	49,358,000	1,495,697
<b>Annual Average Month</b>								<b>2,261,240</b>
<b>Peak Month</b>								<b>3,159,677</b>
<b>Peaking Factor</b>								<b>1.40</b>

Months	Comments
March	Pump #3 taken out of service on 3/15.
April	VFD fault and Pump #1 taken out of service 4/19
May-November	New comminutor is needed.

**ATTACHMENT E**  
**MONTHLY ADF TO NMWA**

**Table 6  
2021 TOTAL FLOW TO NORRISTOWN  
WEST NORRITON TOWNSHIP**

<b>Average Daily Flow</b>	<b>Rittenhouse Blvd Pump Station (gpd)</b>	<b>Jackson Street Pit (gpd)</b>	<b>Total Flow to Norristown (gpd)</b>
January	2,397,567	249,287	2,646,854
February	2,798,142	297,296	3,095,438
March	3,159,677	520,939	3,680,616
April	2,263,223	406,403	2,669,626
May	1,861,710	322,313	2,184,023
June	2,249,900	216,143	2,466,043
July	2,204,000	216,429	2,420,429
August	2,036,968	255,432	2,292,400
September	2,917,066	230,053	3,147,119
October	1,963,161	400,671	2,363,832
November	1,787,767	258,747	2,046,514
December	1,495,697	315,809	1,811,506
<b>Average total flow (gpd)</b>	<b>27,134,878</b>	<b>3,689,522</b>	<b>30,824,400</b>
<b>Average Daily Flow (gpd)</b>	<b>2,261,240</b>	<b>307,460</b>	<b>2,568,700</b>

**Table 7**  
**Average Daily Flow to NMWA (2008 to 2021)**  
**West Norriton Township**

**Rittenhouse Pump Station**

Month	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	1,140,058	1,456,990	1,463,313	829,881	1,631,760	1,708,296	1,847,377	1,765,629	1,418,064	1,316,032	1,545,870	3,335,826	2,397,567
February	1,766,872	559,437	1,722,096	1,505,254	1,204,106	1,603,490	3,119,342	1,649,457	2,902,034	1,270,321	3,219,714	3,161,036	2,798,142
March	1,846,990	515,907	2,755,964	2,072,793	1,304,838	1,684,645	233,590	2,617,167	1,724,129	1,829,354	3,624,032	3,391,649	3,159,677
April	977,496	544,155	1,361,187	1,515,407	1,724,400	1,310,723	2,577,086	3,009,310	1,401,366	1,710,233	2,449,800	2,535,270	2,263,223
May	1,196,496	540,160	778,958	1,063,490	1,660,581	1,212,654	2,603,622	1,071,816	1,766,419	1,650,709	2,658,733	2,920,500	1,861,710
June	858,186	576,791	637,826	551,286	1,411,733	2,491,360	1,517,076	1,598,126	1,128,400	1,748,633	2,992,933	3,015,833	2,249,900
July	1,008,148	571,476	806,335	503,868	1,160,841	1,681,932	1,037,000	1,751,812	1,043,032	1,770,258	2,438,613	2,190,839	2,204,000
August	611,941	1,197,658	764,652	1,320,574	1,297,906	1,549,880	931,329	1,026,774	887,709	1,719,645	3,143,258	1,741,565	2,036,968
September	1,086,073	1,130,403	696,443	2,465,300	1,538,583	980,463	966,586	1,425,910	986,100	1,399,866	3,051,066	1,366,483	2,917,066
October	953,025	1,310,132	955,535	1,613,858	1,481,161	1,054,687	971,709	1,240,903	897,483	1,380,613	2,607,935	1,663,258	1,963,161
November	1,012,316	1,013,466	753,803	1,322,593	1,372,833	1,012,422	1,245,956	953,266	1,054,833	1,607,500	3,822,066	2,001,922	1,787,767
December	1,922,929	2,076,363	896,903	2,257,632	1,686,839	1,855,090	1,643,680	1,680,290	1,350,677	1,486,967	3,146,064	2,705,495	1,495,697
<b>Total flow (gpd)</b>	<b>14,380,530</b>	<b>11,492,938</b>	<b>13,593,015</b>	<b>17,021,936</b>	<b>17,475,581</b>	<b>18,145,642</b>	<b>18,694,353</b>	<b>19,790,460</b>	<b>16,560,246</b>	<b>18,890,131</b>	<b>34,700,084</b>	<b>30,029,675</b>	<b>27,134,878</b>
<b>Average daily (gpd)</b>	<b>1,198,378</b>	<b>957,745</b>	<b>1,132,751</b>	<b>1,418,495</b>	<b>1,456,298</b>	<b>1,512,137</b>	<b>1,557,863</b>	<b>1,649,205</b>	<b>1,380,021</b>	<b>1,574,178</b>	<b>2,891,674</b>	<b>2,502,473</b>	<b>2,261,240</b>

**Jackson Street**

Month	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	790,335	769,226	957,096	926,654	774,271	501,065	549,006	465,968	321,458	465,968	380,893	167,535	249,287
February	778,410	702,625	984,242	1,181,932	627,951	324,078	381,053	357,029	370,917	357,029	358,636	228,871	297,296
March	939,700	634,481	1,199,387	1,382,040	441,216	293,412	455,265	413,816	357,858	413,816	305,284	264,713	520,939
April	891,593	787,590	1,057,330	1,107,757	404,566	293,516	363,277	418,336	391,640	418,336	282,746	226,526	406,403
May	976,874	799,035	844,048	821,629	315,281	422,419	333,000	401,526	366,465	401,526	454,340	264,794	322,313
June	737,986	818,420	810,590	910,306	42,916	422,650	402,150	374,006	422,190	374,006	291,976	234,052	216,143
July	572,561	711,158	721,716	780,844	359,752	314,109	427,270	382,194	299,829	382,194	278,948	280,426	216,429
August	730,770	919,719	604,587	965,958	318,684	509,303	437,970	392,509	427,322	392,509	338,738	268,497	255,432
September	519,453	841,158	749,493	921,690	198,200	494,650	368,222	405,593	399,580	405,593	293,736	270,903	230,053
October	605,374	914,658	944,132	629,923	264,568	387,968	393,510	292,897	311,125	292,897	223,765	256,116	400,671
November	723,646	865,060	899,283	1,031,928	356,193	348,340	336,196	321,070	314,900	321,070	309,236	122,233	258,747
December	839,361	1,062,719	962,383	599,409	381,393	405,984	416,813	287,471	405,265	287,471	276,477	138,516	315,809
<b>Total flow (gpd)</b>	<b>9,106,063</b>	<b>9,825,849</b>	<b>10,734,287</b>	<b>11,260,070</b>	<b>4,484,991</b>	<b>4,717,494</b>	<b>4,863,732</b>	<b>4,512,415</b>	<b>4,388,549</b>	<b>4,512,415</b>	<b>3,794,775</b>	<b>2,723,182</b>	<b>3,689,522</b>
<b>Average daily (gpd)</b>	<b>758,839</b>	<b>818,821</b>	<b>894,524</b>	<b>938,339</b>	<b>373,749</b>	<b>393,125</b>	<b>405,311</b>	<b>376,035</b>	<b>365,712</b>	<b>376,035</b>	<b>316,231</b>	<b>226,932</b>	<b>307,460</b>

**Rainfall**

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Average daily to NMWA (gpd)</b>	1,957,216	1,776,566	2,027,275	2,356,834	1,830,048	1,905,261	1,963,174	2,025,240	1,745,733	1,950,212	3,207,905	2,729,405	2,568,700
<b>Total precipitation (inch)</b>	41.78	48.17	44.06	54.19	44.56	49.64	39.99	23.59	38.12	39.12	74.62	75.62	57.18

\* 2015 Precipitation from www.accuweather.com for 19403

\*\*2016-2020 precipitation from NMWA

**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: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

SERVICE DATE: 6/22/2021  
METER#: C2000 AA  
LOCATION: JACKSON STREET  
SERIAL #: 45048050/AKI000950  
MANUFACTURER: KROHNE/ PARTLOW  
RECORDER: MRC5000  
TRANSMITTER: OPTISOUND  
PRIMARY: 9" PARSHALL FLUME  
MAXIMUM CAPACITY: 3.5 MGD  
SERVICE CONTRACT: QUARTERLY

---

**\*WORK PERFORMED\***

CLEANED EQUIPMENT: X      PRIMARY: X

**\*RECORDER CALIBRATION\***      CHECKED AT: 0, 25, 50 & 100%  
ERROR: 0%      CORRECTED ACCURACY: ±1%

**\*TOTALIZER CALIBRATION\***      CHECKED AT: 0, 25, 50 & 100%  
ERROR: 0%      CORRECTED ACCURACY: ±1%

**\*TRANSMITTER CALIBRATION\***  
FLOW MEASUREMENTS  
ERROR: 0%      CORRECTED ACCURACY: ±1%

---

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID MOORE      PERSON SEEN: TONY TUSKI  
copies-

**TheMeterGuy, LLC.**

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 6/22/2021  
**METER#:** C2000 AB  
**LOCATION:** RITTENHOUSE PUMP STATION  
**SERIAL #:** 356807  
**MANUFACTURER:** SPARLING/CHESELL  
**RECORDER:** 392  
**TRANSMITTER:** FM656-185-1A3-0  
**PRIMARY:** MAG  
**MAXIMUM CAPACITY:** 10,000 GPM  
**SERVICE CONTRACT:** QUARTERLY

---

**\*WORK PERFORMED\***

**CLEANED EQUIPMENT:** X    **PRIMARY:** X

**\*RECORDER CALIBRATION\***    **CHECKED AT:** 0, 25, 50 & 100%  
**ERROR:** 0%    **CORRECTED ACCURACY:** ±1%

**\*TOTALIZER CALIBRATION\***    **CHECKED AT:** OPERATING RATE  
**ERROR:** 0%    **CORRECTED ACCURACY:** ±1%

**\*TRANSMITTER CALIBRATION\***  
INTERNAL SIMULATION  
**ERROR:** 0%    **CORRECTED ACCURACY:** ±1%

---

**COMMENTS:** LEFT EQUIPMENT OPERATING PROPERLY.

**SERVICE REPRESENTATIVE:** DAVID MOORE    **PERSON SEEN:** TONY TUSKI  
copies-

**TheMeterGuy, LLC.**

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 6/22/2021  
**METER#:** C2000 AC  
**LOCATION:** WHITEHALL ROAD  
**SERIAL #:** 8503A0455  
**MANUFACTURER:** FISCHER & PORTER  
**RECORDER:** 51C1102DZ  
**TRANSMITTER:** 50PZ1112  
**PRIMARY:** MAG X  
**MAXIMUM CAPACITY:** 3,000 GPM  
**SERVICE CONTRACT:** QUARTERLY

---

**\*WORK PERFORMED\***

**CLEANED EQUIPMENT:** X      **PRIMARY:** X

**\*RECORDER CALIBRATION\***    **CHECKED AT:** 0, 15, 50 & 80%  
**ERROR:** 0%      **CORRECTED ACCURACY:** ±1%

**\*TOTALIZER CALIBRATION\***    **CHECKED AT:** 0, 15, 50 & 80%  
**ERROR:** 0%      **CORRECTED ACCURACY:** ±1%

**\*TRANSMITTER CALIBRATION\***  
0, 15, 50 & 80%  
**ERROR:** 0%      **CORRECTED ACCURACY:** ±1%

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**COMMENTS:** LEFT EQUIPMENT OPERATING PROPERLY.

**SERVICE REPRESENTATIVE:** DAVID MOORE    **PERSON SEEN:** TONY TUSKI  
copies-

**TheMeterGuy, LLC.**

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

SERVICE DATE: 6/22/2021  
METER#: C2000 AD  
LOCATION: PORT INDIAN  
SERIAL #: 160612-FA-18621692  
MANUFACTURER: F&P / OMEGA  
RECORDER: 1392  
TRANSMITTER: FDT-21W  
PRIMARY: 8 INCH  
MAXIMUM CAPACITY: 1500 GPM  
SERVICE CONTRACT: QUARTERLY

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**\*WORK PERFORMED\***

CLEANED EQUIPMENT: X      PRIMARY: X

**\*RECORDER CALIBRATION\***      CHECKED AT: 0, 25, 50 & 100%  
ERROR: 0%      CORRECTED ACCURACY:  $\pm 1\%$

**\*TOTALIZER CALIBRATION\***      CHECKED AT: 0, 50 & 100%  
ERROR: 0%      CORRECTED ACCURACY:  $\pm 1\%$

**\*TRANSMITTER CALIBRATION\***  
CHECKED OUTPUT AT ZERO FLOW  
ERROR: 0%      CORRECTED ACCURACY:  $\pm 1\%$

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COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID MOORE      PERSON SEEN: TONY TUSKI  
copies-

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**\*\*\*SERVICE REPORT\*\*\***

WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

SERVICE DATE: 6/22/2021  
METER#: C2000 AE  
LOCATION: CHESTNUT STREET  
SERIAL #: N28401/20/4  
MANUFACTURER: ABB  
RECORDER: 1900 COMMANDER  
TRANSMITTER: MAGMASTER  
PRIMARY: 4 INCH  
MAXIMUM CAPACITY: 500 GPM  
SERVICE CONTRACT: QUARTERLY

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**\*WORK PERFORMED\***

CLEANED EQUIPMENT: X    PRIMARY: X

**\*RECORDER CALIBRATION\***    CHECKED AT: 0, 25, 50 & 100%  
ERROR: 0%    CORRECTED ACCURACY: ±1%

**\*TOTALIZER CALIBRATION\***    CHECKED AT: ZERO & FLOW RATE  
ERROR: 0%    CORRECTED ACCURACY: ±1%

**\*TRANSMITTER CALIBRATION\***  
CHECKED OUTPUT AT ZERO & FLOW RATE  
ERROR: 0%    CORRECTED ACCURACY: ±1%

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COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID MOORE    PERSON SEEN: TONY TUSKI  
copies-

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**\*\*\*SERVICE REPORT\*\*\***

WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 6/22/2021  
**METER#:** C2000 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:** 1,000 GPM  
**SERVICE CONTRACT:** QUARTERLY

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**\*WORK PERFORMED\***

**CLEANED EQUIPMENT:** X      **PRIMARY:** X

**\*RECORDER CALIBRATION\***    **CHECKED AT:** 0,25,50,75,& 100%  
**ERROR:** 0%      **CORRECTED ACCURACY:** ±1%

**\*TOTALIZER CALIBRATION\***    **CHECKED AT:** 0,25,50,75, & 100%  
**ERROR:** 0%      **CORRECTED ACCURACY:** ± 1%

**\*TRANSMITTER CALIBRATION\***  
FLOW MEASUREMENTS  
**ERROR:** 0%      **CORRECTED ACCURACY:** ± 1%

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**COMMENTS:** LEFT EQUIPMENT OPERATING PROPERLY.

**SERVICE REPRESENTATIVE:** DAVID MOORE    **PERSON SEEN:** TONY TUSKI  
copies-