



**WEST NORRITON TOWNSHIP
MONTGOMERY COUNTY, PENNSYLVANIA**

**2020 Municipal Wasteload Management Report
(Chapter 94 Report)
For Calendar Year 2019**

Prepared For:

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

March 2020

File No. 2020-01169T

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: 2020

- 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 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>Check the appropriate boxes:</p> <p><input type="checkbox"/> Line graph for flows attached (Attachment)</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment)</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>Check the appropriate boxes:</p> <p><input type="checkbox"/> Line graph for organic loads attached (Attachment)</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment)</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>All flow is treated by Norritown Municipal Waste Authority at their wastewater treatment plant. See Attachment E.</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:

Approximately 3,148 LF of 8" gravity sewer and 18 manholes were installed in Markley Farms Phase 2 in 2019. The sewer has not been dedicated yet for Markley Farms Phase 1 or 2.

17 new connections occurred in 2019. See below and Attachment A - Table 1

Markley Farms Phase 1 - 5 new connections

Markley Farms Phase 2 - 4 new connections

Reserve at Stoney Creek - 7 new connections

2421 Blvd of the Generals (Outside Unlimited) - 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 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 Bobst, Township Manager

Name of Responsible Official

Signature

(610) 631-0450

3/13/2020

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

3/13 2020

Telephone No.

Date

ATTACHMENT A

ACTIVE, APPROVED AND PLANNED DEVELOPMENT

**TABLE 1
ACTIVE, APPROVED AND PLANNED DEVELOPMENTS
WEST NORRITON TOWNSHIP**

| NAME | Map Reference ⁽¹⁾ | Drainage Basin | Status | Total Project Connections | | Connections Prior to 2019 | | 2019 Connections | | Remaining EDUs | | Projected Buildout Schedule | | | | | | | | | |
|--|------------------------------|----------------|--------------------|---------------------------|---------------|---------------------------|---------------|------------------|--------------|----------------|---------------------------|-----------------------------|---------------|-----------|---------------|-----------|--------------|----------|--------------|-----------|--------------|
| | | | | EDUs | Flow | EDUs | Flow | EDUs | Flow | Total EDUs | Total Flow ⁽²⁾ | 2020 | | 2021 | | 2022 | | 2023 | | 2024 | |
| | | | | | | | | | | | | EDUs | Flow | EDUs | Flow | EDUs | Flow | EDUs | Flow | EDUs | Flow |
| 1 The Reserve at Stoney Creek | 1 | Whitehall | Under Construction | 51 | 14,535 | 9 | 2,565 | 7 | 1,995 | 35 | 9,975 | 10 | 2,850 | 10 | 2,850 | 10 | 2,850 | 5 | 1,425 | 0 | 0 |
| 2 Norristown School District | 2 | Whitehall | Approved | 10 | 2,850 | 0 | - | 0 | 0 | 10 | 2,850 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 2,850 |
| 3 Apartments at Schuylkill & Main Street | 3 | Rittenhouse | Under Construction | 22 | 6,270 | 0 | - | 0 | 0 | 22 | 6,270 | 0 | 0 | 10 | 2,850 | 12 | 3,420 | 0 | 0 | 0 | 0 |
| 4 Markley Farms | 4 | Whitehall | Under Construction | 79 | 22,515 | 34 | 9,690 | 9 | 2,565 | 36 | 10,260 | 20 | 5,700 | 16 | 4,560 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 2421 Blvd of Gnrls: Outside Unlimited | 5 | Rittenhouse | Under Construction | 1 | 285 | 0 | - | 1 | 285 | 0 | 0 | | | | | | | | | | |
| 6 2495 General Armistead: VA Outpatient | 6 | Rittenhouse | In Planning Stages | 1 | 285 | 0 | - | 0 | 0 | 1 | 285 | 1 | 285 | | | | | | | | |
| 7 1930 W. Main St.: Laundromat | 7 | Jackson | Connected | 8 | 2,280 | 0 | - | 0 | 0 | 8 | 2,280 | 8 | 2,280 | | | | | | | | |
| 8 1807 Sterigere | 8 | Whitehall | Connected | 1 | 285 | 0 | - | 0 | 0 | 1 | 285 | 1 | 285 | | | | | | | | |
| Approved Sub Total EDUs / Flow | | | | 173 | 49,305 | 43 | 12,255 | 17 | 4,845 | 113 | 32,205 | 40 | 11,400 | 36 | 10,260 | 22 | 6,270 | 5 | 1,425 | 10 | 2,850 |

| Planned Developments | | Map Reference ⁽¹⁾ | Drainage Basin | Status | EDUs | Flow | Connections Prior to 2019 | 2019 Connections | Remaining EDUs | Projected Buildout Schedule | | | | | | | | | | | | | |
|--------------------------------------|-----------------------------------|------------------------------|----------------|--------------------|---------------------------|-------|---------------------------|------------------|----------------|-----------------------------|--------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|--------------|
| EDUs | Flow | EDUs | Flow | Total EDUs | Total Flow ⁽²⁾ | EDUs | Flow | EDUs | Flow | EDUs | Flow | EDUs | Flow | EDUs | Flow | EDUs | Flow | EDUs | Flow | EDUs | Flow | | |
| 7 | Office Building at 239 Egypt Road | 8 | Rittenhouse | In Planning Stages | 11 | 3,135 | - | - | - | - | 11 | 3,135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 3,135 | |
| 8 | Fill in Lots and OLDs | - | - | - | | | | | | 5 | 1,425 | 1 | 285 | 1 | 285 | 1 | 285 | 1 | 285 | 1 | 285 | 12 | 3,420 |
| Planned Sub Total EDUs / Flow | | | | | | | | | | 16 | 4,560 | 1 | 285 | 12 | 3,420 |

| | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|------------|---------------|-----------|---------------|-----------|---------------|-----------|--------------|----------|--------------|-----------|--------------|--|
| TOTAL | | | | | | | | | | 129 | 36,765 | 41 | 11,685 | 37 | 10,545 | 23 | 6,555 | 6 | 1,710 | 22 | 6,270 | |
| Approved EDU's issued to WNT from NMWA/PADEP | | | | | | | | | | 241 | | | | | | | | | | | | |
| Remaining EDU's | | | | | | | | | | 111 | | | | | | | | | | | | |

Notes:
(1) See Attachment B for Development locations
(2) Total Flow based on 1 EDU = 285 gpd

ATTACHMENT B
SANITARY SEWER SYSTEM MAP

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 2019 can be found within Attachment D.

Collection System

WNT is continuously working to remove Inflow & Infiltration (I&I) from the sanitary sewer system. The map shows the sewers and manholes that were televised and repaired during 2019. Repairs to the sanitary sewers and manholes are continuously being prioritized as televising/repairs occurs. Corrective repair commenced during 2017 and continued through 2019. WNT has contracted with Sewer Specialty Services Co., Inc. and they are repairing mains/laterals utilizing trenchless technologies such as grouting and cured in place pipe (CIPP) repair liners. The Township works with additional contractors as needed when unanticipated work arises for work that is outside of the contract with Sewer Specialties Services Co., Inc. During 2019, the following was completed:

- 2,870 linear feet of sanitary sewer televised

As I&I is reduced in the system, WNT will request additional EDUs be released by the DEP. WNT is slowly running out of funding to complete the repairs to the sanitary sewer system and the release of some EDUs will be required to obtain the additional funding to accomplish the repairs.

WNT is committed to continue with I&I remediation until the system has controlled its peak hourly flows. WNT is committed to eliminate all illegal connections to the system, such as sump pumps, rain water conductors, and deficient laterals. WNT will continue inspections of properties at time of sale 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, is 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.
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 pump station flows for each pumping station.

ATTACHMENT D
TABLE 4
PUMP STATION INFORMATION
WEST NORRITON TOWNSHIP
2019

| 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) 2019 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 | 3,197 | 2.502 / 3.392 | 1 EDUs / 285 gpd / 0.0003 mgd | 2.502 / 3.392 |
| Chestnut Avenue | 2004 | 2 | Hydromatic | Fixed | 180 gpm @30 ft. TDH | 180 gpm - 0.259 mgd | Yes | Yes | 280 | 0.081/ 0.120 | 0 | 0.081/ 0.120 |
| Whitehall Road | 1994 | 3 | Fairbanks-Morse | Variable | 1750 gpm @220 ft. TDH | 2625 gpm - 3.78 mgd with 2 pumps | Yes | Yes | 1,550 | 0.616 / 0.920 | 57 EDUs / 16,245 gpd / 0.016 mgd | 0.632 / 0.936 |
| Forrest Avenue | 1987 | 2 | Chicago | Fixed | 600 gpm @63 ft. TDH | 600 gpm - 0.864 mgd | No | Yes | 530 | 0.166 / 0.241 | 0 | 0.166 / 0.241 |
| Port Indian Road | 1999 | 2 | Fairbanks-Morse | Fixed | 1000 gpm @113 ft. TDH | 1000 gpm -1.44 mgd | Yes | Yes | 1,230 | 0.464 / 0.727 | 0 | 0.464 / 0.727 |
| Halford Hills | 1995 | 2 | Hydromatic | Fixed | 25 gpm @50 ft. TDH | 25 gpm - 0.036 mgd | No | No | 10 | 0.0033 / 0.0043 | 0 | 0.0033 / 0.0043 |

1 EDU = 285 gpd

TABLE 5
PUMP STATIONS MONTHLY AVERAGE DAILY FLOWS
WEST NORRITON TOWNSHIP
2019

| Month | Rittenhouse Blvd (gpd) | Whitehall Road (gpd) | Port Indian Road (gpd) | Forrest Avenue (gpd) | Chestnut Avenue (gpd) | Halford Hills (gpd) |
|----------------|-----------------------------------|---------------------------------|-----------------------------------|---------------------------------|----------------------------------|--------------------------------|
| January | 3,335,826 | 818,187 | 641,022 | 188,640 | 88,100 | 2,580 |
| February | 3,161,036 | 799,535 | 615,007 | 205,200 | 120,350 | 3,210 |
| March | 3,391,649 | 920,471 | 727,100 | 209,160 | 106,719 | 2,490 |
| April | 2,535,270 | 581,256 | 406,400 | 240,840 | 73,510 | 2,295 |
| May | 2,920,500 | 700,419 | 565,613 | 176,400 | 89,926 | 3,660 |
| June | 3,015,833 | 713,200 | 579,002 | 177,120 | 87,847 | 3,795 |
| July | 2,190,839 | 527,326 | 388,861 | 144,360 | 66,235 | 3,495 |
| August | 1,741,565 | 427,061 | 293,863 | 129,600 | 57,623 | 3,930 |
| September | 1,366,483 | 357,433 | 243,205 | 113,400 | 56,795 | 3,870 |
| October | 1,663,258 | 433,455 | 295,661 | 117,360 | 65,745 | 4,320 |
| November | 2,001,922 | 448,940 | 327,535 | 129,960 | 67,338 | 2,685 |
| December | 2,705,495 | 660,461 | 490,015 | 156,600 | 81,651 | 3,615 |
| Average | 2,502,473 | 615,645 | 464,440 | 165,720 | 80,153 | 3,329 |

2019 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 |
| 1/1/2019 - 2/1/2019 | 163.60 | 5.27 | 175.97 | 5.68 | 2,731,100 | 88,100 |
| 2/1/2019 - 3/1/2019 | 154.72 | 5.52 | 161.69 | 5.77 | 3,369,800 | 120,350 |
| 3/1/2019 - 4/1/2019 | 200.20 | 6.46 | 215.77 | 6.96 | 3,308,300 | 106,719 |
| 4/1/2019 - 5/1/2019 | 132.38 | 4.41 | 137.86 | 4.59 | 2,205,300 | 73,510 |
| 5/1/2019 - 6/1/2019 | 152.93 | 4.93 | 181.89 | 5.87 | 2,787,700 | 89,926 |
| 6/1/2019 - 7/1/2019 | 144.85 | 4.83 | 167.07 | 5.57 | 2,635,400 | 87,847 |
| 7/1/2019 - 8/1/2019 | 112.97 | 3.64 | 127.42 | 4.11 | 2,053,300 | 66,235 |
| 8/1/2019 - 9/1/2019 | 98.53 | 3.18 | 108.30 | 3.49 | 1,775,150 | 57,623 |
| 9/1/2019 - 10/1/2019 | 95.31 | 3.18 | 107.61 | 3.59 | 1,703,850 | 56,795 |
| 10/1/2019 - 11/1/2019 | 115.38 | 3.72 | 130.50 | 4.21 | 2,038,100 | 65,745 |
| 11/1/2019 - 12/1/2019 | 117.61 | 3.92 | 131.01 | 4.37 | 2,020,133 | 67,338 |
| 12/1/2019 - 1/1/2020 | 145.21 | 4.68 | 166.39 | 5.37 | 2,531,167 | 81,651 |
| Annual Average Month | | | | | | 80,153 |
| Peak Month | | | | | | 120,350 |
| Peaking Factor | | | | | | 1.50 |

2019 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 |
| 1/1/2019 - 2/1/2019 | 252.60 | 8.15 | | | 368.80 | 11.90 | 25,363,800 | 818,187 |
| 2/1/2019 - 3/1/2019 | 259.40 | 9.26 | 269.90 | 9.64 | 247.80 | 8.85 | 22,387,000 | 799,535 |
| 3/1/2019 - 4/1/2019 | 252.40 | 8.14 | 100.10 | 3.22 | 378.20 | 12.20 | 28,534,600 | 920,471 |
| 4/1/2019 - 5/1/2019 | 123.40 | 4.11 | 145.00 | 4.83 | 470.30 | 15.60 | 17,437,700 | 581,256 |
| 5/1/2019 - 6/1/2019 | 188.40 | 6.08 | 246.80 | 7.96 | 374.80 | 12.09 | 21,713,000 | 700,419 |
| 6/1/2019 - 7/1/2019 | 103.80 | 3.46 | 306.60 | 10.22 | 332.63 | 11.09 | 21,396,000 | 713,200 |
| 7/1/2019 - 8/1/2019 | 117.20 | 3.78 | 264.40 | 8.53 | 364.70 | 11.76 | 16,347,100 | 527,326 |
| 8/1/2019 - 9/1/2019 | 90.20 | 2.91 | 388.85 | 12.54 | 262.10 | 8.45 | 13,238,900 | 427,061 |
| 9/1/2019 - 10/1/2019 | 320.20 | 10.67 | 123.75 | 4.13 | 280.50 | 9.35 | 10,723,000 | 357,433 |
| 10/1/2019 - 11/1/2019 | 390.10 | 12.58 | | | 360.30 | 11.62 | 13,437,100 | 433,455 |
| 11/1/2019 - 12/1/2019 | 338.30 | 11.28 | | | 387.48 | 12.92 | 13,468,200 | 448,940 |
| 12/1/2019 - 1/1/2020 | 433.10 | 13.97 | | | 281.42 | 9.08 | 20,474,300 | 660,461 |
| Annual Average Month | | | | | | | | 615,645 |
| Peak Month | | | | | | | | 920,471 |
| Peaking Factor | | | | | | | | 1.50 |

2019 Forrest 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 |
| 1/1/2019 - 2/1/2019 | 50.90 | 1.64 | 59,040 | 111.00 | 3.60 | 129,600 | 5,828,400 | 188,640 |
| 2/1/2019 - 3/1/2019 | 93.10 | 1.50 | 54,000 | 118.40 | 4.20 | 151,200 | 7,614,000 | 205,200 |
| 3/1/2019 - 4/1/2019 | 93.10 | 3.00 | 108,000 | 87.00 | 2.81 | 101,160 | 6,483,600 | 209,160 |
| 4/1/2019 - 5/1/2019 | 85.30 | 2.84 | 102,240 | 115.60 | 3.85 | 138,600 | 7,232,400 | 240,840 |
| 5/1/2019 - 6/1/2019 | 60.30 | 1.90 | 68,400 | 92.90 | 3.00 | 108,000 | 5,515,200 | 176,400 |
| 6/1/2019 - 7/1/2019 | 75.73 | 2.52 | 90,720 | 72.13 | 2.40 | 86,400 | 5,322,960 | 177,120 |
| 7/1/2019 - 8/1/2019 | 63.20 | 2.04 | 73,440 | 61.20 | 1.97 | 70,920 | 4,478,400 | 144,360 |
| 8/1/2019 - 9/1/2019 | 55.90 | 1.80 | 64,800 | 55.65 | 1.80 | 64,800 | 4,015,800 | 129,600 |
| 9/1/2019 - 10/1/2019 | 47.40 | 1.58 | 56,880 | 47.15 | 1.57 | 56,520 | 3,403,800 | 113,400 |
| 10/1/2019 - 11/1/2019 | 50.60 | 1.63 | 58,680 | 50.40 | 1.63 | 58,680 | 3,636,000 | 117,360 |
| 11/1/2019 - 12/1/2019 | 55.00 | 1.83 | 65,880 | 53.42 | 1.78 | 64,080 | 3,903,120 | 129,960 |
| 12/1/2019 - 1/1/2020 | 66.77 | 2.15 | 77,400 | 68.25 | 2.20 | 79,200 | 4,860,720 | 156,600 |
| Annual Average Month | | | | | | | | 165,720 |
| Peak Month | | | | | | | | 240,840 |
| Peaking Factor | | | | | | | | 1.45 |

2019 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 |
| 1/1/2019 - 2/1/2019 | 190.80 | 6.15 | 186.89 | 6.03 | 19,871,700 | 641,022 |
| 2/1/2019 - 3/1/2019 | 174.14 | 6.22 | 156.71 | 5.60 | 17,220,200 | 615,007 |
| 3/1/2019 - 4/1/2019 | 198.45 | 6.40 | | | 22,540,100 | 727,100 |
| 4/1/2019 - 5/1/2019 | 126.54 | 4.22 | 111.18 | 3.70 | 12,192,100 | 406,400 |
| 5/1/2019 - 6/1/2019 | 171.17 | 5.52 | 155.96 | 2.03 | 17,534,000 | 565,613 |
| 6/1/2019 - 7/1/2019 | 170.67 | 5.69 | 147.80 | 4.63 | 17,370,067 | 579,002 |
| 7/1/2019 - 8/1/2019 | 117.68 | 3.80 | 104.89 | 3.38 | 12,054,700 | 388,861 |
| 8/1/2019 - 9/1/2019 | 86.63 | 2.79 | 79.59 | 2.57 | 9,109,750 | 293,863 |
| 9/1/2019 - 10/1/2019 | 69.04 | 2.30 | 63.96 | 2.13 | 7,296,150 | 243,205 |
| 10/1/2019 - 11/1/2019 | 87.26 | 2.81 | 74.96 | 2.42 | 9,165,500 | 295,661 |
| 11/1/2019 - 12/1/2019 | 101.88 | 3.40 | 89.10 | 2.97 | 9,826,050 | 327,535 |
| 12/1/2019 - 1/1/2020 | 140.49 | 4.53 | 165.28 | 5.33 | 15,190,450 | 490,015 |
| | | | | | Annual Average Month | 464,440 |
| | | | | | Peak Month | 727,100 |
| | | | | | Peaking Factor | 1.57 |

2019 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 |
| 1/1/2019 - 2/1/2019 | 53.92 | 1.72 | 2,580 | | | 0 | 80,880 | 2,580 |
| 2/1/2019 - 3/1/2019 | 59.97 | 2.14 | 3,210 | | | 0 | 89,955 | 3,210 |
| 3/1/2019 - 4/1/2019 | 51.50 | 1.66 | 2,490 | | | 0 | 77,250 | 2,490 |
| 4/1/2019 - 5/1/2019 | 45.90 | 1.53 | 2,295 | | | 0 | 68,850 | 2,295 |
| 5/1/2019 - 6/1/2019 | 75.60 | 2.44 | 3,660 | | | 0 | 113,400 | 3,660 |
| 6/1/2019 - 7/1/2019 | 76.02 | 2.53 | 3,795 | | | 0 | 114,030 | 3,795 |
| 7/1/2019 - 8/1/2019 | 72.24 | 2.33 | 3,495 | | | 0 | 108,360 | 3,495 |
| 8/1/2019 - 9/1/2019 | 81.29 | 2.62 | 3,930 | | | 0 | 121,935 | 3,930 |
| 9/1/2019 - 10/1/2019 | 77.35 | 2.58 | 3,870 | | | 0 | 116,025 | 3,870 |
| 10/1/2019 - 11/1/2019 | 80.31 | 2.59 | 3,885 | 9.10 | 0.29 | 435 | 134,115 | 4,320 |
| 11/1/2019 - 12/1/2019 | 34.01 | 1.13 | 1,695 | 19.78 | 0.66 | 990 | 80,685 | 2,685 |
| 12/1/2019 - 1/1/2020 | 55.65 | 1.80 | 2,700 | 18.84 | 0.61 | 915 | 111,735 | 3,615 |
| | | | | | | | Annual Average Month | 3,329 |
| | | | | | | | Peak Month | 4,320 |
| | | | | | | | Peaking Factor | 1.30 |

2019 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 |
| 1/1/2019 - 2/1/2019 | | | 414.80 | 13.40 | 403.70 | 13.00 | 103,410,600 | 3,335,826 |
| 2/1/2019 - 3/1/2019 | | | 373.50 | 13.34 | 361.60 | 12.91 | 88,509,000 | 3,161,036 |
| 3/1/2019 - 4/1/2019 | | | 449.40 | 14.50 | 432.50 | 13.95 | 105,141,110 | 3,391,649 |
| 4/1/2019 - 5/1/2019 | | | 266.30 | 8.88 | 264.90 | 8.83 | 76,058,100 | 2,535,270 |
| 5/1/2019 - 6/1/2019 | 295.90 | 9.55 | 289.50 | 9.34 | 267.40 | 8.63 | 90,535,500 | 2,920,500 |
| 6/1/2019 - 7/1/2019 | 273.00 | 9.10 | 260.93 | 8.70 | 255.71 | 8.52 | 90,475,000 | 3,015,833 |
| 7/1/2019 - 8/1/2019 | 238.10 | 7.68 | 239.20 | 7.72 | 221.10 | 7.16 | 67,916,000 | 2,190,839 |
| 8/1/2019 - 9/1/2019 | 211.1 | 6.81 | 204.4 | 6.59 | 201.05 | 6.49 | 53,988,500 | 1,741,565 |
| 9/1/2019 - 10/1/2019 | 182.20 | 6.07 | 173.20 | 5.78 | 167.35 | 5.58 | 40,994,500 | 1,366,483 |
| 10/1/2019 - 11/1/2019 | 197.50 | 6.37 | 199.10 | 6.42 | 193.40 | 6.24 | 51,561,000 | 1,663,258 |
| 11/1/2019 - 12/1/2019 | 226.10 | 7.54 | 214.47 | 7.15 | 226.67 | 7.56 | 60,057,667 | 2,001,922 |
| 12/1/2019 - 1/1/2020 | 269.20 | 8.68 | 267.68 | 8.63 | 243.03 | 7.84 | 83,870,333 | 2,705,495 |
| Annual Average Month | | | | | | | | 2,502,473 |
| Peak Month | | | | | | | | 3,391,649 |
| Peaking Factor | | | | | | | | 1.36 |

ATTACHMENT E
MONTHLY ADF TO NMWA

Table 6
2019 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 | 3,335,826 | 167,535 | 3,503,361 |
| February | 3,161,036 | 228,871 | 3,389,907 |
| March | 3,391,649 | 264,713 | 3,656,362 |
| April | 2,535,270 | 226,526 | 2,761,796 |
| May | 2,920,500 | 264,794 | 3,185,294 |
| June | 3,015,833 | 234,052 | 3,249,885 |
| July | 2,190,839 | 280,426 | 2,471,265 |
| August | 1,741,565 | 268,497 | 2,010,062 |
| September | 1,366,483 | 270,903 | 1,637,386 |
| October | 1,663,258 | 256,116 | 1,919,374 |
| November | 2,001,922 | 122,233 | 2,124,155 |
| December | 2,705,495 | 138,516 | 2,844,011 |

| | | | |
|--------------------------|------------|-----------|------------|
| Average total flow (gpd) | 30,029,675 | 2,723,182 | 32,752,857 |
| Average Daily Flow (gpd) | 2,502,473 | 226,932 | 2,729,405 |

Table 7
Average Daily Flow to NMWA (2008 to 2019)
West Norriton Township

| Rittenhouse Pump Station | | | | | | | | | | | | |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Month | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Total flow (gpd) | 14,380,530 | 11,492,938 | 13,593,015 | 17,021,936 | 17,475,581 | 18,145,642 | 18,694,353 | 19,790,460 | 16,560,246 | 18,890,131 | 34,700,084 | 30,029,675 |
| Average daily (gpd) | 1,198,378 | 957,745 | 1,132,751 | 1,418,495 | 1,456,298 | 1,512,137 | 1,557,863 | 1,649,205 | 1,380,021 | 1,574,178 | 2,891,674 | 2,502,473 |

| Jackson Street | | | | | | | | | | | | |
|----------------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Month | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Total flow (gpd) | 9,106,063 | 9,825,849 | 10,734,287 | 11,260,070 | 4,484,991 | 4,717,494 | 4,863,732 | 4,512,415 | 4,388,549 | 4,512,415 | 3,794,775 | 2,723,182 |
| Average daily (gpd) | 758,839 | 818,821 | 894,524 | 938,339 | 373,749 | 393,125 | 405,311 | 376,035 | 365,712 | 376,035 | 316,231 | 226,932 |

| | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Average daily to NMWA (gpd) | 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 |
| Total precipitation (inch) | 41.78 | 48.17 | 44.06 | 54.19 | 44.56 | 49.64 | 39.99 | 23.59 | 38.12 | 39.12 | 74.62 | 75.62 |

* 2015 Precipitation from www.accuweather.com for 19403
 **2016-2019 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

The Meter Guy, LLC

5758 Glen Oaks Drive
Narvon, PA 17555

OCT 15 2019
Invoice

| | |
|-----------|-----------|
| DATE | INVOICE # |
| 10/5/2019 | 5516 |

| |
|--|
| BILL TO |
| WEST NORRITON 1634 WEST MARSHALL STREET JEFFERSONVILLE, PA 19403 ATTN: ACCOUNTS PAYABLE |

| |
|--|
| SHIP TO |
| WEST NORRITON 1634 WEST MARSHALL STREET JEFFERSONVILLE, PA 19403 ATTN: Tony Tuski |

| P.O. NUMBER | TERMS | REP | SHIP | VIA | F.O.B. | PROJECT |
|-------------|--------|-----|-----------|-----------|--------|---------|
| | Net 30 | DEM | 9/30/2019 | Our Truck | | |

| QUANTITY | ITEM CODE | DESCRIPTION | PRICE EACH | AMOUNT |
|----------|---------------|---|------------|--------|
| 1 | LABOR-Q | QUARTERLY SERVICE TO CALIBRATE FLOW METERS | 875.00 | 875.00 |
| 2 | PENS-CHESS... | PACK OF CHESSSEL PENS BLUE #1-200-502 | 35.95 | 71.90 |
| 1 | PENS-UNIV 39 | PACK OF PENS- UNIVERSAL 39 SERIES .37", RED | 41.95 | 41.95 |

| | |
|-----------------------------|------------------|
| APPROVED FOR PAYMENT | |
| DEPT. CHAIRMAN | FINANCE CHAIRMAN |
| DISTRIBUTION | |
| 80 429.372 | 988.85 |
| DATE | 10/31 |

| | |
|--------------|-----------------|
| Total | \$988.85 |
|--------------|-----------------|

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: 9/30/2019
METER#: C2000 AA
LOCATION: JACKSON STREET
SERIAL #: 9902E3010E6/US21707-001
MANUFACTURER: E & H/CHELSELL
RECORDER: 392
TRANSMITTER: FMU90
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: 9/30/2019
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: 9/30/2019
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%

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: 9/30/2019
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

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, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
CHECKED OUTPUT AT ZERO FLOW
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: 9/30/2019
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

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%

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: 9/30/2019
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

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%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

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