

Phase 3 Watershed Implementation Plan Wastewater Supplement

Revised, September 13, 2021

Section 2 of Pennsylvania's Phase 3 Chesapeake Bay Watershed Implementation Plan (Phase 3 WIP) describes Pennsylvania's strategy for reducing nutrients to the Chesapeake Bay from wastewater facilities. This supplement to the Phase 3 WIP provides an update on Chesapeake Bay TMDL implementation activities for point sources and DEP's current implementation strategy for wastewater. This document is updated periodically to reflect changes due to Department of Environmental Protection's (DEP's) permit actions as well as changes to strategies in managing the wastewater sector's allocated loads under the TMDL. Note that this supplement, now titled, "Phase 3 Watershed Implementation Plan Wastewater Supplement," is the same document referred to as the "Phase 2 Watershed Implementation Plan Wastewater Supplement" in the Phase 3 WIP.

I. Definitions

Several definitions are provided to clarify the terminology in this document.

Annual Net Mass Load (lbs): The Annual Total Mass Load for one year beginning October 1st and ending September 30th, adjusted for Credits sold and applied and Offsets applied. Annual Net Mass Loads are compared to Cap Loads to determine compliance.

Cap Load (lbs): The mass load of a pollutant authorized by an NPDES permit. Cap Loads for Total Nitrogen (TN) and Total Phosphorus (TP) are implemented in NPDES permits by the establishment of Annual Net Mass Load limits. The term "Net" is used to recognize that Credits and Offsets may be used to comply with the limits. The Annual Net Mass Load must be less than or equal to the Cap Load to achieve compliance.

Certification: Written approval by DEP of a proposed pollutant reduction activity to generate credits before the credits are verified and registered to be used to comply with NPDES permit effluent limitations.

Compliance Year: The year-long period starting October 1st and ending September 30th. The Compliance Year will be named for the year in which it ends. For example, the period of October 1, 2015 through September 30, 2016 is Compliance Year 2016.

Credit: The tradable unit of compliance that corresponds with a unit of reduction of a pollutant as recognized by DEP which, when certified, verified and registered, may be used to comply with NPDES permit effluent limitations.

Delivery Ratio: A ratio that compensates for the natural attenuation of a pollutant as it travels in water before it reaches a defined compliance point.

Offset: The pollutant load reduction measured in pounds (lbs) that is created by an action, activity or technology which when approved by DEP may be used to comply with NPDES permit effluent limitations, conditions and stipulations under 25 Pa. Code Chapter 92a (relating to NPDES permitting, monitoring and compliance.) The offset may only be used by the NPDES permittee that DEP determines is associated with the load reduction achieved by the action, activity or technology.

Registration: An accounting mechanism used by DEP to track certified and verified credits before they may be used to comply with NPDES permit effluent limitations.

Total Mass Load (lbs):

Monthly Total Mass Load = The sum of the actual daily discharge loads for TN and TP (lbs/day) divided by the number of samples per month, multiplied by the number of days in the month in which there was a

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discharge. The daily discharge load for TN and TP (lbs/day) equals the average daily flow (MGD) on the day of sampling, multiplied by that day's sample concentration for TN and TP (mg/l), multiplied by 8.34.

Annual Total Mass Load = The sum of the actual daily discharge loads for TN and TP (lbs/day) divided by the number of samples per year (beginning October 1st and ending September 30th), multiplied by the number of days in the year in which there was a discharge.

Total Nitrogen: For concentration and load, Total Nitrogen is the sum of Total Kjeldahl-N (TKN) plus Nitrite-Nitrate as N (NO₂+NO₃-N), where TKN and NO₂+NO₃-N are measured in the same sample.

Truing Period: The time provided following each Compliance Year for a permittee to comply with Cap Loads through the application of Credits and Offsets. The Truing Period will start on October 1st and end on November 28th of the same calendar year, unless DEP extends this period. During this period, compliance for the specified year may be achieved by using registered Credits that were generated during that Compliance Year. For example, Credits that are used to achieve compliance in Compliance Year 2016 must have been generated during Compliance Year 2016. Approved Offsets that have been generated may also be applied during the Truing Period.

Verification: Assurance that the verification plan contained in a certification, permit or other approval issued by DEP has been implemented. Verification is required prior to registration of the credits for use in an NPDES permit to comply with NPDES permit effluent limitations.

Wasteload Allocation (WLA): The portion of a surface water's loading capacity that is allocated to existing and future point source discharges.

II. Implementation Status

Appendix Q of the Chesapeake Bay TMDL segregates Pennsylvania's point sources into four sectors – significant sewage dischargers, significant industrial waste (IW) dischargers, combined sewer overflows (CSOs) and non-significant dischargers (both sewage and IW facilities). All sectors contain a listing of individual facilities with NPDES permits that were believed to be discharging at the time the TMDL was published (2010). All sectors with the exception of the non-significant dischargers have individual wasteload allocations (WLAs) for TN and TP assigned to specific facilities. Non-significant dischargers have a bulk or aggregate allocation for TN and TP based on the facilities in that sector that were believed to be discharging at that time and their estimated nutrient loads.

The Chesapeake Bay TMDL specifies individual WLAs for 183 significant sewage treatment facilities. A sewage facility is considered significant if it has a design flow of at least 0.4 MGD. For rollout of its permitting strategy, DEP classified these facilities into three phases. Thirty IW facilities have individual WLAs in the TMDL. An industrial facility is considered significant if gross effluent discharges that have exceeded 75 lbs/day of TN or 25 lbs/day of TP. WLAs have been established in the TMDL for 39 facilities with CSOs.

Since 2010 there have been numerous on-the-ground changes within these sectors. For example, DEP has issued permits to new and expanded discharges, authorized facility mergers, and terminated permits. This document is the means by which DEP accounts for these changes to ensure that DEP's overall TN and TP loads do not exceed the total WLAs. Where it is determined that a sector is performing better than prescribed by the TMDL, excess load will be placed into a "**Point Source Reserve**." Where it is determined that a sector is not meeting its total WLAs, load from a different sector or the Point Source Reserve may be used to balance the load requirements.

Table 1 is used by DEP for accounting purposes to determine if the wastewater sector is meeting overall TMDL objectives. The performance values are total Cap loads for the Significant Sewage and IW sectors, WLAs for the CSO sector, and estimated performance based on monitoring data for the Non-Significant sector. Performance values do not consider movement of load from one sector to another, which is unnecessary to determine an overall balance for the wastewater sector. Targets are total WLAs for all sectors in the TMDL (edge of segment WLAs, rounded as appropriate). All values have units of lbs/yr.

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Table 1: Point Source Reserve

| Sector | Performance | | Targets | | Balance | |
|--------------------|-------------|-----------|------------|------------|---------|---------|
| | TN | TP | TN | TP | TN | TP |
| Significant Sewage | 10,000,438 | 1,319,769 | 9,994,689* | 1,303,685* | -5,749 | -16,084 |
| Significant IW | 1,319,556 | 41,422 | 1,820,139 | 64,684 | 500,583 | 23,262 |
| CSOs | 212,920 | 34,709 | 212,920 | 34,709 | 0 | 0 |
| Non-Significant | 2,907,524 | 402,968 | 3,006,667 | 842,104 | 99,143 | 439,136 |

TOTALS: 593,977 446,314

* **NOTE** – The actual Total TN and TP WLAs in the TMDL for the Significant Sewage sector are 10,635,817 and 1,386,402 lbs/yr, respectively. There were, however, numerous errors with the WLAs in Appendix Q. This document assumes those errors, which are presented in **Attachment A**, will be revised in the TMDL.

A. Changes within Sectors.

Table 2 contains the facilities that are now considered Significant that are not listed in the TMDL. The loads from these facilities have either been transferred from the non-significant sector or from another significant facility that has ceased discharging or reduced their loadings. Details about the changes are listed in **Attachment B**.

Table 2: Significant Facilities Not in the TMDL.

| NPDES Permit No. | Facility | TN Cap Load (lbs/yr) | TP Cap Load (lbs/yr) | Sector |
|------------------|--|----------------------|----------------------|------------|
| PA0021491 | Williamstown Borough | 7,306 | 974 | Sewage |
| PA0028592 | Bonneauville Borough | 9,741 | 1,218 | Sewage |
| PA0037737 | Elizabethville Area Authority | 7,306 | 974 | Sewage |
| PA0038865 | Zerbe Township Municipal Authority | 7,306 | 974 | Sewage |
| PA0046221 | Newville Borough | 7,306 | 974 | Sewage |
| PA0060518 | Hallstead-Great Bend Joint Sewer Authority | 9,741 | 1,218 | Sewage |
| PA0084212 | Leacock Township | 7,306 | 974 | Sewage |
| PA0086304 | Earl Township STP | 7,306 | 974 | Sewage |
| PA0208922 | Woodward Township | 10,228 | 1,364 | Sewage |
| PA0228915 | ORD Sewer Authority | 9,748 | 1,218 | Sewage |
| PA0234079 | Tiadaghton Valley Municipal Authority | 19,178 | 2,557 | Sewage |
| PA0234117 | West Branch Regional Authority | 42,508 | 5,728 | Sewage |
| PA0253812 | Glendale Valley M.A. | 7,808 | 1,041 | Sewage |
| PA0261262 | North Londonderry Township Authority | 25,936 | 3,458 | Sewage |
| PA0261670 | Fredericksburg Water & Sewer Authority | 7,306 | 974 | Sewage |
| PA0266469 | Weaverland Valley Authority | 13,064 | 1,531 | Sewage |
| PA0266566 | Jackson Township STP | 10,958 | 1,461 | Sewage |
| PA0228842 | Muddy Run Regional Auth. Madera WWTP | 7,306 | 974 | Sewage |
| PA0276227 | Hegins Hubley Authority WWTP | 0 | 0 | Sewage |
| PA0055328 | New Morgan Landfill Co. Inc. | 12,500 | 64 | Industrial |
| PA0080829 | Keystone Protein | 19,786 | 381 | Industrial |

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Table 3 contains facilities that received Cap Loads in the TMDL but are no longer considered Significant. The sewage facilities have either ceased discharging and transferred their load to another facility or have reduced their flow and are considered non-significant. DEP has discovered that the industrial facilities listed in **Table 3** withdraw water from the same stream where the discharge occurs. The WLAs provided to these facilities in the TMDL are gross loads that include background nutrients withdrawn from those streams. When reviewing the *net* contribution from the facilities, it appears that the facilities do not meet the original thresholds used (75 lbs/day TN or 25 lbs/day TP) to determine the Significant IW discharger list, i.e., if their net loads had been considered, they would not have been considered significant. Facilities that are no longer considered significant have had their loads transferred to the non-significant sector.

Table 3: Facilities with Cap Loads in the TMDL No Longer Considered Significant or Have Terminated Permits.

| NPDES Permit No. | Facility | TN Cap Load (lbs/yr) | TP Cap Load (lbs/yr) | Sector |
|------------------|-------------------------------------|----------------------|----------------------|------------|
| PA0020699 | Montgomery Borough | 15,525 | 11,776 | Sewage |
| PA0024287 | Palmyra Borough | 25,936 | 19,789 | Sewage |
| PA0024325 | Muncy Borough Municipal Authority | 25,570 | 19,461 | Sewage |
| PA0026123 | Columbia Municipal Authority | 36,529 | 31,171 | Sewage |
| PA0028665 | Jersey Shore Borough | 19,178 | 13,740 | Sewage |
| PA0029297 | South Mountain Restoration Center | 9,136 | 3,252 | Sewage |
| PA0029432 | PA Depart of Public Welfare | 10,961 | 7,647 | Sewage |
| PA0088048 | New Morgan STP | 9,132 | 4,189 | Sewage |
| PA0088633 | Lower Paxton STP | 45,661 | 38,050 | Sewage |
| PA0008869 | PH Glatfelter Company | 117,588 | 6,821 | Industrial |
| PA0009857 | USFW – Lamar National Fish Hatchery | 60,138 | 1,919 | Industrial |
| PA0010553 | PAFBC – Benner Springs | 110,347 | 2,285 | Industrial |
| PA0010561 | PAFBC – Pleasant Gap | 55,049 | 1,591 | Industrial |
| PA0037141 | PAFBC – Huntsdale | 53,512 | 2,804 | Industrial |
| PA0038598 | Susquehanna Aquaculture Inc. | 54,007 | 3,530 | Industrial |
| PA0040835 | PAFBC – Bellefonte | 78,988 | 2,636 | Industrial |
| PA0044032 | PAFBC – Upper Spring | 7,000 | 50 | Industrial |
| PA0112127 | PAFBC – Tylersville | 63,339 | 2,382 | Industrial |

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Several facilities have received Cap Loads based on different flows than those expressed in the TMDL. Those facilities are listed in **Table 4** below.

Table 4: Permitted Flows Different Than the TMDL.

| NPDES Permit No. | Facility | Cap Load Flow (MGD) | TMDL Flow (MGD) |
|------------------|---|---------------------|-----------------|
| PA0021539 | Williamsburg Borough | 0.4 | 0.5 |
| PA0036269 | Stewartstown Borough | 0.625 | 0.74 |
| PA0037966 | Moshannon Valley Joint Sanitary Authority | 2.037 | 1.73 |
| PA0043257 | New Freedom Borough | 2.25 | 2.3 |
| PA0081591 | Eastern York County Sewer Authority | 0.5 | 0.6 |
| PA0020214 | Mount Union Borough | 1.1 | 0.95 |
| PA0028576 | Abington Regional WW Authority | 3.34 | 2.5 |

B. Performance.

Significant Sewage Sector

Table 5 presents all NPDES permits for Significant Sewage dischargers with Cap Loads. The NPDES Permit No., phase, facility name, latest permit issuance date, expiration date, Cap Load compliance start date, TN and TP Cap Loads, and TN and TP Delivery Ratios are presented. In addition, if TN Offsets were incorporated into the TN Cap Loads when the permit was issued, the amount is shown; these Offsets will be removed from Cap Loads upon issuance of renewed permits to implement Section IV of this document (i.e., a facility may use Offsets for compliance but may not register them as credits).

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Table 5: Significant Chesapeake Bay Sewage NPDES Permits Issued

| NPDES Permit No. | Phase | Facility | Latest Permit Issuance Date | Permit Expiration Date | Cap Load Compliance Start Date | TN Cap Load (lbs/yr) | TN Offsets Included in Cap Load (lbs/yr) | TP Cap Load (lbs/yr) | TN Delivery Ratio | TP Delivery Ratio |
|------------------|-------|---|-----------------------------|------------------------|--------------------------------|----------------------|--|----------------------|-------------------|-------------------|
| PA0020036 | 3 | Blossburg Borough | 1/10/2017 | 1/31/2022 | 10/1/2012 | 7,306 | - | 974 | 0.474 | 0.436 |
| PA0020214 | 3 | Mount Union Borough | 4/17/2017 | 4/30/2022 | 10/1/2013 | 20,091 | - | 2,679 | 0.88 | 0.436 |
| PA0020249 | 3 | Roaring Spring Borough | 1/31/2020 | 1/31/2025 | 1/1/2016 | 12,785 | - | 1,705 | 0.88 | 0.436 |
| PA0020273 | 2 | Milton Regional Sewage Authority | 9/25/2017 | 9/30/2022 | 10/1/2009 | 72,217 | - | 10,049 | 0.941 | 0.436 |
| PA0020320 | 1 | Lititz Sewer Authority | 7/19/2019 | 6/30/2023 | 10/1/2010 | 70,319 | - | 9,376 | 0.891 | 0.436 |
| PA0020338 | 3 | Kulpmont-Marion Heights Joint Municipal Authority | 5/4/2017 | 5/31/2022 | 10/1/2011 | 9,132 | - | 1,218 | 0.871 | 0.436 |
| PA0020486 | 1 | Bellefonte Borough | 6/1/2019 | 5/31/2024 | 10/1/2010 | 58,812 | - | 7,842 | 0.93 | 0.436 |
| PA0020508 | 3 | McConnellsburg Borough | 1/14/2021 | 1/30/2026 | 10/1/2012 | 10,959 | - | 1,461 | 0.749 | 0.67 |
| PA0020567 | 3 | Northumberland Borough | 1/17/2018 | 9/31/2023 | 10/1/2012 | 20,548 | - | 2,740 | 0.941 | 0.436 |
| PA0020583 | 2 | Middleburg Municipal Authority | 7/16/2020 | 7/31/2025 | 10/1/2012 | 8,219 | - | 1,096 | 0.951 | 0.436 |
| PA0020621 | 2 | Waynesboro Borough | 9/14/2018 | 9/30/2023 | 10/1/2013 | 29,223 | - | 3,896 | 0.819 | 0.67 |
| PA0020664 | 1 | Middletown STP | 2/16/2021 | 2/28/2026 | 10/1/2011 | 40,182 | - | 5,358 | 0.961 | 0.436 |
| PA0020800 | 3 | White Deer Township | 2/10/2021 | 2/28/2026 | 10/1/2011 | 10,959 | - | 1,461 | 0.941 | 0.436 |
| PA0020818 | 2 | Glen Rock Sewer Authority | 10/21/2015 | 10/31/2020 | 10/1/2012 | 10,959 | - | 1,461 | 0.961 | 0.436 |
| PA0020826 | 1 | Dover Township Sewer Authority | 6/2/2017 | 6/30/2022 | 10/1/2010 | 146,117 | - | 19,482 | 0.961 | 0.436 |
| PA0020834 | 2 | Franklin County Authority – Greencastle | 5/21/2021 | 5/31/2026 | 10/1/2012 | 17,351 | - | 2,314 | 0.683 | 0.67 |
| PA0020885 | 1 | Mechanicsburg Borough Municipal Authority | 4/27/2017 | 4/30/2022 | 10/1/2012 | 37,990 | - | 5,065 | 0.951 | 0.436 |
| PA0020893 | 1 | Manheim Borough Authority | 1/17/2008 | 1/31/2013 | 10/1/2011 | 21,847 | 1,025 | 2,776 | 0.97 | 0.436 |
| PA0020915 | 2 | Pine Grove Borough Authority | 2/04/2016 | 2/28/2021 | 10/1/2012 | 27,397 | - | 3,653 | 0.961 | 0.436 |
| PA0020923 | 1 | New Oxford Municipal Authority | 5/23/2016 | 5/31/2021 | 10/1/2011 | 32,657 | - | 4,354 | 0.961 | 0.436 |
| PA0021067 | 1 | Mount Joy Borough | 2/18/2021 | 2/28/2026 | 10/1/2010 | 27,945 | - | 3,726 | 0.97 | 0.436 |
| PA0021229 | 3 | Littlestown Borough | 6/1/2012 | 6/30/2017 | 10/1/2014 | 18,265 | - | 2,435 | 0.627 | 0.67 |

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| NPDES Permit No. | Phase | Facility | Latest Permit Issuance Date | Permit Expiration Date | Cap Load Compliance Start Date | TN Cap Load (lbs/yr) | TN Offsets Included in Cap Load (lbs/yr) | TP Cap Load (lbs/yr) | TN Delivery Ratio | TP Delivery Ratio |
|------------------|-------|--|-----------------------------|------------------------|--------------------------------|----------------------|--|----------------------|-------------------|-------------------|
| PA0021237 | 2 | Newport Borough Municipal Authority | 12/7/2016 | 12/31/2021 | 10/1/2014 | 7,306 | - | 974 | 0.951 | 0.436 |
| PA0021245 | 2 | Duncannon Borough | 6/28/2018 | 6/31/2023 | 10/1/2013 | 13,516 | - | 1,802 | 0.951 | 0.436 |
| PA0021491 | 3 | Williamstown Borough | 5/23/2016 | 5/31/2021 | 10/1/2010 | 7,306 | - | 974 | 0.951 | 0.436 |
| PA0021539 | 3 | Williamsburg Borough | 6/29/2017 | 6/30/2022 | 10/1/2013 | 7,306 | - | 974 | 0.88 | 0.436 |
| PA0021563 | 3 | Gettysburg Municipal Authority | 7/12/2018 | 7/31/2023 | 10/1/2012 | 44,748 | - | 5,966 | 0.627 | 0.67 |
| PA0021571 | 3 | Marysville Municipal Authority | 2/23/2012 | 2/28/2017 | 10/1/2012 | 22,831 | - | 3,044 | 0.951 | 0.436 |
| PA0021644 | 2 | Dover Borough | 9/8/2021 | 9/30/2026 | 10/1/2010 | 7,306 | - | 974 | 0.961 | 0.436 |
| PA0021687 | 1 | Wellsboro Municipal Authority | 1/11/2008 | 1/31/2013 | 10/1/2010 | 46,029 | 9,500 | 4,871 | 0.93 | 0.436 |
| PA0021717 | 2 | Marietta-Donnegal Joint Authority | 9/22/2015 | 9/30/2020 | 10/1/2012 | 13,698 | - | 1,826 | 0.97 | 0.436 |
| PA0021806 | 2 | Annsville Township | 8/30/2016 | 8/31/2021 | 10/1/2012 | 13,698 | - | 1,826 | 0.961 | 0.436 |
| PA0021814 | 3 | Mansfield Boro Municipal Authority | 7/20/2021 | 7/31/2026 | 10/1/2012 | 23,744 | - | 3,166 | 0.474 | 0.436 |
| PA0021865 | 2 | Adamstown Borough Authority | 2/27/2020 | 2/28/2025 | 10/1/2013 | 10,959 | - | 1,461 | 0.891 | 0.436 |
| PA0021881 | 3 | Westfield Borough | 9/3/2020 | 9/30/2025 | 10/1/2010 | 8,402 | - | 1,120 | 0.474 | 0.436 |
| PA0021890 | 1 | New Holland Borough Authority | 3/16/2021 | 3/31/2026 | 10/1/2012 | 24,475 | - | 3,263 | 0.891 | 0.436 |
| PA0022209 | 1 | Bedford Borough Municipal Authority | 2/26/2021 | 2/28/2026 | 10/1/2010 | 27,397 | - | 3,653 | 0.897 | 0.436 |
| PA0022535 | 3 | Millersburg Borough Authority | 11/27/2017 | 11/30/2022 | 10/1/2013 | 18,265 | - | 2,435 | 0.951 | 0.436 |
| PA0023108 | 1 | Elizabethtown Borough | 6/20/2016 | 6/30/2021 | 10/1/2010 | 109,500 | - | 13,688 | 0.961 | 0.436 |
| PA0023141 | 3 | Hastings Area Sewer Authority | 5/16/2018 | 5/16/2023 | 10/1/2016 | 10,959 | - | 1,461 | 0.836 | 0.436 |
| PA0023183 | 3 | Mt. Holly Springs Borough Authority | 9/21/2020 | 1/31/2022 | 10/1/2013 | 10,959 | - | 1,461 | 0.961 | 0.436 |
| PA0023248 | 1 | Berwick Municipal Authority | 12/13/2019 | 12/31/2024 | 10/1/2010 | 66,848 | - | 8,913 | 0.871 | 0.436 |
| PA0023264 | 2 | Twin Boroughs Sanitary Authority | 4/20/2016 | 4/30/2021 | 10/1/2012 | 16,438 | - | 2,192 | 0.88 | 0.436 |
| PA0023442 | 3 | Wrightsville Borough Municipal Authority | 8/3/2017 | 8/31/2022 | 10/1/2011 | 7,306 | - | 974 | 0.97 | 0.436 |

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|------------------|-------|---|-----------------------------|------------------------|--------------------------------|----------------------|--|----------------------|-------------------|-------------------|
| PA0023531 | 1 | Danville Municipal Authority | 2/26/2021 | 2/28/2026 | 10/1/2011 | 66,118 | - | 8,816 | 0.871 | 0.436 |
| PA0023558 | 3 | Ashland Borough | 4/23/2012 | 4/30/2017 | 10/1/2013 | 23,744 | - | 3,166 | 0.951 | 0.436 |
| PA0023736 | 3 | Tri-Boro Municipal Authority | 7/13/2021 | 7/31/2026 | 10/1/2013 | 9,132 | - | 1,218 | 0.495 | 0.436 |
| PA0023744 | 1 | Northeastern York County Sewer Authority | 6/1/2020 | 12/31/2020 | 10/1/2010 | 33,485 | - | 4,627 | 0.961 | 0.436 |
| PA0024040 | 1 | Highspire Borough | 4/26/2016 | 4/30/2021 | 10/1/2010 | 36,529 | - | 4,871 | 0.961 | 0.436 |
| PA0024139 | 3 | Cumberland Township Municipal Authority (North) | 11/13/2019 | 11/30/2024 | 10/1/2013 | 9,132 | - | 1,218 | 0.627 | 0.67 |
| PA0024147 | 3 | Cumberland Township Municipal Authority (South) | 11/13/2019 | 11/30/2024 | 10/1/2013 | 11,872 | - | 1,583 | 0.627 | 0.67 |
| PA0024384 | 2 | North Middleton Township Authority | 2/16/2017 | 02/28/2022 | 10/1/2012 | 16,895 | - | 2,253 | 0.951 | 0.436 |
| PA0024406 | 2 | Mt. Carmel Municipal Sewage Authority | 10/25/2017 | 10/31/2022 | 10/1/2010 | 41,095 | - | 5,479 | 0.871 | 0.436 |
| PA0024431 | 1 | Dillsburg Borough Authority | 3/23/2016 | 3/31/2021 | 10/1/2011 | 27,945 | - | 3,726 | 0.961 | 0.436 |
| PA0024708 | 3 | Union Township | 8/17/2016 | 8/31/2021 | 10/1/2012 | 11,872 | - | 1,583 | 0.88 | 0.436 |
| PA0024759 | 3 | Curwensville Municipal Authority | 5/8/2018 | 5/31/2023 | 10/1/2014 | 13,698 | - | 1,826 | 0.836 | 0.436 |
| PA0024902 | 3 | Upper Allen Township | 8/6/2020 | 10/31/2022 | 10/1/2012 | 20,091 | - | 2,679 | 0.951 | 0.436 |
| PA0025381 | 3 | Saxton Borough Municipal Authority | 8/17/2017 | 8/31/2022 | 10/1/2011 | 7,306 | - | 974 | 0.897 | 0.436 |
| PA0025933 | 1 | Lock Haven Borough | 9/16/2016 | 9/30/2021 | 10/1/2011 | 68,492 | - | 9,132 | 0.93 | 0.436 |
| PA0026051 | 1 | Chambersburg Borough | 1/26/2017 | 1/31/2022 | 10/1/2012 | 124,199 | - | 16,560 | 0.683 | 0.67 |
| PA0026077 | 1 | Carlisle Borough | 10/13/2017 | 10/31/2022 | 10/1/2008 | 127,852 | - | 17,047 | 0.951 | 0.436 |
| PA0026107 | 1 | Wyoming Valley Sewer Authority | 2/4/2008 | 2/28/2013 | 10/1/2010 | 584,467 | - | 77,929 | 0.871 | 0.436 |
| PA0026191 | 1 | Huntingdon Borough | 2/16/2017 | 2/28/2022 | 10/1/2011 | 73,058 | - | 9,741 | 0.88 | 0.436 |
| PA0026239 | 1 | University Area Joint Authority | 9/11/2019 | 9/30/2024 | 10/1/2010 | 164,381 | - | 21,918 | 0.93 | 0.436 |
| PA0026263 | 1 | York City | 8/3/2017 | 8/31/2022 | 10/1/2011 | 474,880 | - | 63,317 | 0.961 | 0.436 |
| PA0026280 | 1 | Lewistown Borough | 1/5/2018 | 1/31/2023 | 10/1/2013 | 51,964 | - | 6,942 | 0.88 | 0.436 |
| PA0026310 | 1 | Clearfield Borough | 1/11/2008 | 1/31/2013 | 10/1/2010 | 82,191 | - | 10,959 | 0.836 | 0.436 |

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|------------------|-------|---|-----------------------------|------------------------|--------------------------------|----------------------|--|----------------------|-------------------|-------------------|
| PA0026361 | 1 | Lower Lackawanna Valley Sewer Authority | 6/10/2013 | 6/30/2018 | 10/1/2010 | 109,588 | - | 14,612 | 0.733 | 0.436 |
| PA0026441 | 1 | Lemoyne Borough Municipal Authority | 5/10/2017 | 5/31/2022 | 10/1/2015 | 19,433 | - | 2,429 | 0.961 | 0.436 |
| PA0026484 | 1 | Derry Township Municipal Authority | 2/23/2016 | 2/28/2021 | 10/1/2010 | 91,668 | - | 12,225 | 0.961 | 0.436 |
| PA0026492 | 1 | PA American Water Company Scranton WWTP | 11/29/2019 | 11/30/2024 | 10/1/2013 | 365,292 | - | 48,706 | 0.733 | 0.436 |
| PA0026557 | 1 | Sunbury City Municipal Authority | 1/18/2008 | 1/31/2013 | 10/1/2010 | 76,711 | - | 10,228 | 0.871 | 0.436 |
| PA0026620 | 3 | Millersville Borough | 6/29/2021 | 6/30/2026 | 10/1/2013 | 33,790 | - | 4,505 | 0.891 | 0.436 |
| PA0026654 | 2 | New Cumberland Borough Authority | 3/8/2017 | 3/31/2022 | 10/1/2013 | 22,831 | - | 3,044 | 0.951 | 0.436 |
| PA0026727 | 1 | Tyrone Borough Sewer Authority | 2/28/2020 | 2/28/2025 | 10/1/2011 | 164,381 | - | 21,918 | 0.88 | 0.436 |
| PA0026735 | 1 | Swatara Township | 8/19/2015 | 8/31/2020 | 10/1/2011 | 118,339 | - | 15,866 | 0.961 | 0.436 |
| PA0026743 | 1 | Lancaster City | 6/18/2012 | 7/31/2015 | 10/1/2007 | 620,348 | 1,300 | 77,381 | 0.891 | 0.436 |
| PA0026808 | 1 | Springettsbury Township | 1/26/2016 | 1/31/2022 | 10/1/2010 | 273,969 | - | 36,529 | 0.961 | 0.436 |
| PA0026875 | 1 | Hanover Borough | 12/27/2016 | 12/31/2021 | 10/1/2012 | 82,991 | - | 10,959 | 0.961 | 0.436 |
| PA0026921 | 1 | Greater Hazleton Municipal Authority | 2/12/2008 | 2/28/2013 | 10/1/2011 | 216,739 | - | 27,092 | 0.871 | 0.436 |
| PA0027014 | 1 | Altoona City Authority – East | 1/29/2008 | 1/31/2013 | 10/1/2012 | 146,117 | - | 19,482 | 0.88 | 0.436 |
| PA0027022 | 1 | Altoona City Authority – West | 1/29/2008 | 1/31/2013 | 10/1/2011 | 164,381 | - | 21,918 | 0.88 | 0.436 |
| PA0027049 | 1 | Williamsport Sanitary Authority – West | 10/25/2017 | 10/31/2022 | 10/1/2012 | 71,597 | - | 9,546 | 0.93 | 0.436 |
| PA0027057 | 1 | Williamsport Sanitary Authority – Central | 8/10/2016 | 8/31/2021 | 10/1/2012 | 153,423 | - | 20,456 | 0.941 | 0.436 |
| PA0027065 | 2 | Lackawanna River Basin Sewer Authority | 9/23/2015 | 9/30/2020 | 10/1/2011 | 109,587 | - | 14,612 | 0.733 | 0.436 |
| PA0027081 | 3 | Lackawanna River Basin Sewer Authority | 11/7/2016 | 11/30/2021 | 10/1/2011 | 12,786 | - | 1,705 | 0.733 | 0.436 |
| PA0027090 | 1 | Lackawanna River Basin Sewer Authority | 8/15/2016 | 8/31/2021 | 10/1/2011 | 127,852 | - | 17,047 | 0.733 | 0.436 |
| PA0027171 | 1 | Bloomsburg Municipal Authority | 10/25/2017 | 3/31/2022 | 10/1/2010 | 78,355 | - | 10,447 | 0.871 | 0.436 |

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|------------------|-------|---|-----------------------------|------------------------|--------------------------------|----------------------|--|----------------------|-------------------|-------------------|
| PA0027189 | 1 | Lower Allen Township Authority | 5/5/2017 | 5/31/2022 | 10/1/2015 | 114,154 | | 15,221 | 0.951 | 0.436 |
| PA0027197 | 1 | Harrisburg Sewerage Authority | 12/4/2009 | 12/31/2014 | 10/1/2012 | 688,575 | - | 91,810 | 0.951 | 0.436 |
| PA0027316 | 1 | Lebanon City Authority | 12/23/2016 | 12/31/2021 | 10/1/2012 | 146,117 | - | 19,482 | 0.961 | 0.436 |
| PA0027324 | 1 | Shamokin-Coal Township Joint Sanitary Authority | 12/16/2020 | 12/31/2025 | 10/1/2012 | 127,852 | - | 17,047 | 0.871 | 0.436 |
| PA0027405 | 1 | Ephrata Borough Authority | 7/28/2021 | 7/31/2026 | 10/1/2012 | 79,049 | - | 9,881 | 0.891 | 0.436 |
| PA0027553 | 2 | Pine Creek Municipal Authority | 10/22/2015 | 8/31/2016 | 10/1/2011 | 23,744 | - | 3,166 | 0.93 | 0.436 |
| PA0028088 | 3 | Brown Township Municipal Authority | 2/11/2016 | 2/28/2021 | 10/1/2014 | 10,959 | - | 1,461 | 0.88 | 0.436 |
| PA0028142 | 1 | Fort Indiantown Gap | 11/7/2011 | 11/30/2016 | 10/1/2005 | 24,353 | - | 3,044 | 0.961 | 0.436 |
| PA0028266 | 3 | Troy Borough | 10/26/2016 | 10/31/2021 | 10/1/2011 | 7,306 | - | 974 | 0.7 | 0.436 |
| PA0028347 | 3 | Martinsburg Borough | 6/29/2017 | 6/30/2022 | 10/1/2013 | 12,785 | - | 1,705 | 0.88 | 0.436 |
| PA0028461 | 3 | Mifflinburg Borough Municipal Authority | 8/26/2019 | 3/31/2022 | 10/1/2011 | 25,570 | - | 3,409 | 0.941 | 0.436 |
| PA0028576 | 1 | Abington Regional WW Authority | 3/9/2018 | 3/31/2023 | 10/1/2014 | 66,483 | - | 8,310 | 0.733 | 0.436 |
| PA0028592 | 3 | Bonneauville Borough | 10/28/2019 | 10/31/2024 | 1/1/2009 | 9,741 | - | 1,218 | 0.627 | 0.67 |
| PA0028631 | 3 | Emporium Borough (Mid-Cameron Authority) | 5/26/2021 | 5/31/2026 | 10/1/2011 | 17,100 | - | 2,140 | 0.93 | 0.436 |
| PA0028673 | 3 | Gallitzin Borough | 8/6/2020 | 8/31/2025 | 10/1/2016 | 7,306 | - | 974 | 0.836 | 0.436 |
| PA0028681 | 2 | Kelly Township Municipal Authority | 10/11/2016 | 10/31/2021 | 10/1/2011 | 68,492 | - | 9,132 | 0.941 | 0.436 |
| PA0028738 | 2 | Ralpho Township Municipal Authority | 8/24/2021 | 8/31/2026 | 10/1/2011 | 13,132 | - | 1,751 | 0.871 | 0.436 |
| PA0028886 | 3 | Quarryville Borough Authority | 2/26/2020 | 2/28/2025 | 10/1/2014 | 7,306 | - | 974 | 0.98 | 0.436 |
| PA0029106 | 2 | Greenfield Township Municipal Authority | 9/7/2021 | 9/30/2026 | 10/1/2012 | 14,612 | - | 1,948 | 0.88 | 0.436 |
| PA0030139 | 3 | Dallas State Correctional Institution | 9/10/2019 | 9/30/2024 | 10/1/2009 | 9,741 | - | 1,218 | 0.871 | 0.436 |
| PA0030597 | 3 | Franklin County General Authority | 12/27/2016 | 12/31/2021 | 10/1/2012 | 9,132 | - | 1,218 | 0.683 | 0.67 |

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|------------------|-------|--|-----------------------------|------------------------|--------------------------------|----------------------|--|----------------------|-------------------|-------------------|
| PA0030643 | 1 | Shippensburg Borough Authority | 9/29/2015 | 1/31/2019 | 10/1/2010 | 60,273 | - | 8,036 | 0.951 | 0.436 |
| PA0032051 | 2 | Granville Township | 5/6/2020 | 9/30/2022 | 10/1/2011 | 15,196 | - | 1,899 | 0.88 | 0.436 |
| PA0032492 | 3 | DCNR Bald Eagle State Park | 6/15/2017 | 6/30/2022 | 10/1/2013 | 8,219 | - | 1,096 | 0.93 | 0.436 |
| PA0032557 | 3 | Logan Township | 5/22/20 | 5/31/2025 | 10/1/2008* | 15,013 | - | 1,876 | 0.88 | 0.436 |
| PA0032883 | 2 | Duncansville Borough | 6/23/20 | 6/30/2025 | 10/1/2011 | 22,228 | - | 2,963 | 0.88 | 0.436 |
| PA0034576 | 2 | Towanda Municipal Authority | 9/14/2015 | 9/30/2020 | 10/1/2010 | 21,187 | - | 2,825 | 0.733 | 0.436 |
| PA0036269 | 3 | Stewartstown Borough | 8/11/2021 | 8/31/2026 | 10/1/2010 | 11,415 | - | 1,522 | 1 | 1 |
| PA0036820 | 3 | Galeton Borough Authority | 9/29/2011 | 9/30/2016 | 10/1/2011 | 9,132 | - | 1,218 | 0.93 | 0.436 |
| PA0037150 | 1 | Penn Township | 6/1/2017 | 6/30/2022 | 10/1/2011 | 76,711 | - | 10,228 | 0.961 | 0.436 |
| PA0037711 | 3 | Everett Boro Municipal Authority | 4/19/2021 | 4/30/2026 | 10/1/2013 | 15,890 | - | 2,119 | 0.897 | 0.436 |
| PA0037737 | 3 | Elizabethville Area Authority | 12/14/2017 | 12/31/2022 | 10/1/2013 | 7,306 | - | 974 | 0.836 | 0.436 |
| PA0037966 | 2 | Moshannon Valley Joint Sanitary Authority | 11/15/2017 | 12/31/2021 | 10/1/2012 | 37,205 | - | 4,960 | 0.836 | 0.436 |
| PA0038385 | 3 | Defense Distribution Depot Susquehanna | 5/25/2017 | 5/31/2022 | 10/1/2011 | 9,132 | - | 1,218 | 0.961 | 0.436 |
| PA0038415 | 1 | East Pennsboro Township | 12/16/2015 | 12/30/2020 | 10/1/2012 | 72,206 | - | 9,589 | 0.951 | 0.436 |
| PA0038865 | 3 | Zerbe Township Municipal Authority | 3/26/2021 | 3/31/2026 | 10/1/2015 | 7,306 | - | 974 | 0.951 | 0.436 |
| PA0038920 | 3 | Burnham Borough | 3/23/2016 | 3/31/2021 | 10/1/2013 | 11,689 | - | 1,559 | 0.880 | 0.436 |
| PA0042269 | 1 | Lancaster Area Sewer Authority | 9/24/2018 | 4/30/2021 | 10/1/2010 | 310,498 | - | 41,400 | 0.970 | 0.436 |
| PA0042951 | 3 | Tremont Municipal Authority | 4/22/2016 | 4/30/2021 | 10/1/2013 | 9,132 | - | 1,218 | 0.961 | 0.436 |
| PA0043257 | 3 | New Freedom Borough | 10/22/2015 | 9/30/2020 | 10/1/2015 | 41,095 | - | 5,479 | 0.961 | 0.436 |
| PA0043273 | 2 | Hollidaysburg Regional Sewer Authority | 2/10/2017 | 2/28/2022 | 10/1/2012 | 109,588 | - | 14,612 | 0.88 | 0.436 |
| PA0043575 | 3 | Lykens Borough | 2/5/2018 | 2/28/2023 | 10/1/2012 | 7,488 | - | 998 | 0.951 | 0.436 |
| PA0043681 | 3 | Valley Joint Sewer Authority | 10/18/2017 | 10/31/2022 | 10/1/2012 | 41,095 | - | 5,479 | 0.495 | 0.436 |
| PA0043893 | 3 | Western Clinton County Municipal Authority | 7/21/2017 | 7/31/2022 | 10/1/2011 | 16,438 | - | 2,192 | 0.93 | 0.436 |

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|------------------|-------|--|-----------------------------|------------------------|--------------------------------|----------------------|--|----------------------|-------------------|-------------------|
| PA0044113 | 2 | South Middleton Township Municipal Authority | 4/27/2017 | 4/30/2022 | 10/1/2014 | 27,397 | - | 3,653 | 0.961 | 0.436 |
| PA0044661 | 1 | Lewisburg Area Joint Sanitary Authority | 3/12/2019 | 3/31/2024 | 10/1/2012 | 44,200 | - | 5,893 | 0.941 | 0.436 |
| PA0045985 | 1 | Mountaintop Area Sewer Authority | 6/1/2019 | 5/31/2024 | 10/1/2010 | 76,318 | - | 10,185 | 0.871 | 0.436 |
| PA0046221 | 3 | Newville Borough | 5/21/2021 | 5/31/2026 | 10/1/2011 | 7,306 | - | 974 | 0.951 | 0.436 |
| PA0046272 | 3 | Porter-Tower Joint Municipal Authority | 9/21/2017 | 9/30/2022 | 10/1/2013 | 9,922 | - | 1,321 | 0.951 | 0.436 |
| PA0046388 | 3 | Butler Township St. Johns | 4/18/2013 | 4/30/2018 | 10/1/2009 | 40,182 | - | 5,357 | 0.871 | 0.436 |
| PA0060046 | 3 | Can-Do Inc | 4/27/2020 | 4/30/2025 | 10/1/2012 | 18,265 | - | 2,435 | 0.871 | 0.436 |
| PA0060135 | 3 | Shickshinny Borough Sewer Authority | 10/26/2017 | 10/31/2022 | 10/1/2013 | 8,219 | - | 1,096 | 0.871 | 0.436 |
| PA0060518 | 3 | Hallstead-Great Bend Joint Sewer Authority | 10/22/2015 | 10/31/2020 | 10/1/2012 | 9,741 | - | 1,218 | 0.495 | 0.436 |
| PA0060801 | 2 | Montrose Municipal Authority | 2/25/2011 | 2/29/2016 | 10/1/2013 | 14,977 | - | 1,997 | 0.733 | 0.436 |
| PA0061034 | 3 | Waverly Township | 7/1/2011 | 7/31/2016 | 10/1/2013 | 9,132 | - | 1,218 | 0.733 | 0.436 |
| PA0061590 | 3 | Little Washington Wastewater Co. | 5/1/2019 | 4/30/2024 | 10/1/2013 | 24,073 | - | 3,210 | 0.871 | 0.436 |
| PA0062201 | 2 | Schuylkill County Municipal Authority | 8/19/2016 | 8/31/2021 | 10/1/2012 | 10,959 | - | 1,461 | 0.951 | 0.436 |
| PA0062219 | 1 | Frackville Area Municipal Authority | 8/26/2021 | 8/31/2026 | 10/1/2010 | 25,570 | - | 3,409 | 0.951 | 0.436 |
| PA0064025 | 2 | KBM Regional Authority | 3/24/2021 | 3/31/2026 | 10/1/2009 | 13,637 | - | 1,705 | 0.871 | 0.436 |
| PA0070041 | 3 | Mahanoy City | 6/13/2012 | 6/30/2017 | 10/1/2012 | 25,205 | - | 3,361 | 0.951 | 0.436 |
| PA0070386 | 3 | Shenandoah Municipal Sewer Authority | 10/6/2017 | 10/31/2022 | 10/1/2011 | 36,529 | - | 4,871 | 0.951 | 0.436 |
| PA0070424 | 2 | Carnarvon Township | 3/23/2018 | 3/31/2023 | 10/1/2013 | 12,785 | - | 1,705 | 0.891 | 0.436 |
| PA0080225 | 3 | Washington Township Municipal Authority | 1/12/2018 | 1/31/2023 | 10/1/2013 | 35,433 | - | 4,724 | 0.819 | 0.67 |
| PA0080314 | 1 | Hampden Township Sewer Authority | 7/1/2019 | 6/30/2024 | 10/1/2014 | 117,696 | - | 14,441 | 0.951 | 0.436 |
| PA0080438 | 3 | Northern Lancaster County Authority | 1/1/2019 | 12/31/2023 | 10/1/2013 | 8,219 | - | 1,096 | 0.891 | 0.436 |
| PA0080519 | 3 | Antrim Township | 2/21/2020 | 4/30/2023 | 10/1/2011 | 21,918 | - | 2,922 | 0.683 | 0.67 |

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|------------------|-------|--|-----------------------------|------------------------|--------------------------------|----------------------|--|----------------------|-------------------|-------------------|
| PA0080748 | 2 | Northern Lebanon County Authority | 1/27/2017 | 1/31/2022 | 10/1/2013 | 7,306 | - | 974 | 0.961 | 0.436 |
| PA0081001 | 3 | St. Thomas Township Municipal Authority | 8/8/2017 | 8/31/2022 | 10/1/2013 | 7,306 | - | 974 | 0.683 | 0.67 |
| PA0081574 | 2 | Salisbury Township | 12/13/2019 | 12/31/2024 | 10/1/2012 | 13,150 | - | 1,643 | 0.98 | 0.436 |
| PA0081591 | 2 | Eastern York County Sewer Authority | 10/26/2015 | 10/31/2020 | 10/1/2012 | 9,132 | - | 1,218 | 0.961 | 0.436 |
| PA0081868 | 1 | Fairview Township | 8/17/2016 | 9/30/2020 | 10/1/2010 | 13,333 | - | 1,778 | 0.961 | 0.436 |
| PA0081949 | 3 | Lancaster Area Sewer Authority – Brownstown WWTP | 1/14/2021 | 12/31/2023 | 10/1/2010 | 8,219 | - | 1,096 | 0.891 | 0.436 |
| PA0082392 | 2 | Derry Township Municipal Authority – Southwest | 5/23/2016 | 5/31/2021 | 10/1/2012 | 10,959 | - | 1,461 | 0.961 | 0.436 |
| PA0082589 | 2 | Fairview Township | 4/26/21 | 8/31/2021 | 10/1/2012 | 9,132 | - | 1,218 | 0.961 | 0.436 |
| PA0083011 | 2 | Newberry Township | 2/23/2017 | 2/28/2022 | 10/1/2012 | 23,744 | - | 3,166 | 0.961 | 0.436 |
| PA0083593 | 3 | Silver Spring Township | 6/3/2021 | 6/30/2026 | 10/1/2010 | 21,918 | - | 2,922 | 0.951 | 0.436 |
| PA0084026 | 2 | Northwestern Lancaster County Authority | 11/22/2010 | 11/30/2015 | 10/1/2008 | 14,987 | 375 | 1,827 | 0.97 | 0.436 |
| PA0084212 | 3 | Leacock Township | 11/17/2015 | 11/30/2020 | 10/1/2012 | 7,306 | - | 974 | 0.891 | 0.436 |
| PA0084425 | 3 | Conewago Township Sewer Authority | 1/24/2020 | 6/30/2021 | 10/1/2011 | 9,132 | - | 1,218 | 0.961 | 0.436 |
| PA0085511 | 2 | West Hanover | 10/12/2016 | 10/31/2021 | 10/1/2012 | 14,246 | - | 1,900 | 0.961 | 0.436 |
| PA0086860 | 3 | Springfield Township Sewer Authority | 1/30/2020 | 1/31/2025 | 10/1/2012 | 12,785 | - | 1,704 | 0.961 | 0.436 |
| PA0087181 | 1 | Ephrata Borough Authority (#2) | 7/28/2021 | 7/31/2026 | 10/1/2008 | 54,550 | - | 6,818 | 0.891 | 0.436 |
| PA0087661 | 3 | Chestnut Ridge Area Joint Municipal Authority | 11/17/2017 | 11/30/2022 | 10/1/2013 | 12,877 | - | 1,717 | 0.897 | 0.436 |
| PA0110361 | 3 | Freedom Township Water & Sewer Authority | 11/22/2017 | 11/30/2022 | 10/1/2013 | 10,959 | - | 1,461 | 0.88 | 0.436 |
| PA0110469 | 3 | Patton Borough | 11/17/2017 | 11/30/2022 | 10/1/2013 | 9,863 | - | 1,315 | 0.836 | 0.436 |
| PA0110582 | 1 | Eastern Snyder County Regional Authority | 7/17/2015 | 7/31/2020 | 10/1/2012 | 51,141 | - | 6,819 | 0.951 | 0.436 |
| PA0110965 | 2 | Mid-Centre County Authority | 3/7/2018 | 3/31/2023 | 10/1/2011 | 18,265 | - | 2,435 | 0.93 | 0.436 |

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|------------------|-------|---|-----------------------------|------------------------|--------------------------------|----------------------|--|----------------------|-------------------|-------------------|
| PA0113298 | 3 | Elkland Municipal Authority | 8/1/2019 | 7/31/2024 | 10/1/2010 | 10,277 | - | 1,285 | 0.474 | 0.436 |
| PA0114821 | 3 | Gregg Township | 12/2/2020 | 10/31/2024 | 10/1/2008 | 24,155 | - | 3,250 | 0.941 | 0.436 |
| PA0114961 | 3 | Hughesville-Wolf Township Joint Sewer Authority | 1/19/2017 | 1/31/2022 | 10/1/2011 | 12,329 | - | 1,644 | 0.941 | 0.436 |
| PA0205869 | 2 | West Branch Sewer Authority | 03/01/2016 | 03/31/2021 | 10/1/2012 | 16,438 | - | 2,192 | 0.836 | 0.436 |
| PA0208922 | 3 | Woodward Township | 8/31/2015 | 8/31/2020 | 10/1/2013 | 10,228 | - | 1,364 | 0.871 | 0.436 |
| PA0209228 | 2 | Lycoming County Water & Sewer Authority | 9/7/2012 | 7/31/2015 | 10/1/2011 | 34,703 | - | 4,627 | 0.941 | 0.436 |
| PA0228915 | 3 | ORD Sewer Authority | 10/13/2020 | 10/31/2025 | 10/1/2010 | 9,748 | - | 1,218 | 0.836 | 0.436 |
| PA0234079 | 2 | Tiadaghton Valley Municipal Authority | 7/3/2018 | 7/31/2023 | 10/1/2012 | 19,178 | - | 2,557 | 0.93 | 0.436 |
| PA0234117 | 1 | West Branch Regional Authority | 4/2/2018 | 4/30/2023 | 10/1/2011 | 42,508 | - | 5,728 | 0.941 | 0.436 |
| PA0247391 | 2 | North Codorus Township | 1/31/2020 | 1/31/2025 | 10/1/2006 | 13,394 | - | 1,674 | 0.961 | 0.436 |
| PA0253812 | 3 | Glendale Valley M.A. | 6/1/2018 | 6/30/2023 | 10/1/2013 | 7,808 | - | 1,041 | 0.836 | 0.436 |
| PA0261262 | 1 | North Londonderry Township Authority | 12/27/2018 | 12/31/2023 | 10/1/2012 | 25,936 | - | 3,458 | 0.961 | 0.436 |
| PA0261670 | 3 | Fredericksburg Water & Sewer Authority | 6/15/2018 | 6/30/2023 | 10/1/2014 | 7,306 | - | 974 | 0.961 | 0.436 |
| PA0266566 | 3 | Jackson Township STP | 1/19/2018 | 1/31/2023 | 2/1/2018 | 10,958 | - | 1,461 | 0.961 | 0.436 |
| PA0086304 | 3 | Earl Township STP | 8/30/2018 | 2/28/2021 | 10/1/2018 | 7,306 | - | 974 | 0.891 | 0.436 |
| PA0266469 | 3 | Weaverland Valley Authority | 5/1/2019 | 4/30/2024 | 10/1/2021 | 13,064 | - | 1,531 | 0.891 | 0.436 |
| PA0228842 | 3 | Muddy Run Regional Authority WWTP | 1/27/2020 | 1/31/2025 | 10/1/2020 | 7,306 | - | 974 | 0.836 | 0.436 |
| PA0276227 | 3 | Hegins Hubley Authority | 9/24/2019 | 9/30/2024 | 10/1/2019 | 0 | - | 0 | 0.951 | 0.436 |

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Several facilities had TN Offsets incorporated into their WLAs. Those Offsets were mistakenly included in Cap Loads during the initial round of permitting and were or will be removed upon subsequent renewals. The facilities that have had Offsets removed from their Cap Loads are listed in **Table 6** below.

Table 6: Facilities with Offsets Incorporated into Their Cap Loads in the TMDL.

| NPDES Permit No. | Facility | Offsets In WLA (lbs TN) |
|-------------------------|--|--------------------------------|
| PA0020273 | Milton Regional Sewage Authority | 17,575 |
| PA0020885 | Mechanicsburg Borough Municipal Authority | 575 |
| PA0020893 | Manheim Borough Authority | 1,025 |
| PA0020923 | New Oxford Municipal Authority | 2,400 |
| PA0023744 | Northeastern York County Sewer Authority | 13,050 |
| PA0024384 | North Middleton Township Authority | 5,225 |
| PA0024431 | Dillsburg Borough Authority | 3,400 |
| PA0025933 | Lock Haven Borough | 21,700 |
| PA0026077 | Carlisle Borough | 6,425 |
| PA0026727 | Tyrone Borough Sewer Authority | 1,850 |
| PA0026735 | Swatara Township | 300 |
| PA0026875 | Hanover Borough | 450 |
| PA0027049 | Williamsport Sanitary Authority – West | 71,597 |
| PA0037150 | Penn Township | 5,100 |
| PA0044113 | South Middleton Township Municipal Authority | 1,925 |
| PA0080314 | Hampden Township Sewer Authority | 3,125 |
| PA0085511 | West Hanover | 2,250 |

At this time, there are 12,200 lbs/yr TN Offsets still incorporated into Cap Loads as listed in **Table 5**.

In addition, DEP estimates that there are 386,786 lbs/yr TN and 1,170 lbs/yr TP Offsets for on-lot and wildcat connections that are recognized by permits as a mechanism to achieve compliance but are not incorporated into Cap Loads (an estimated 15, 472 on-lot and wildcat system connections).

Expansions by any Significant Sewage discharger will not result in any increase in Cap Loads. Where non-significant facilities expand to a design flow of 0.4 MGD or greater, the lesser of baseline Cap Loads of 7,306 lbs/yr TN and 974 lbs/yr TP or existing performance will be used for permits, and the load will be moved from the Non-Significant sector load to the Significant Sewage sector load. If considered necessary for environmental protection, DEP may decide to move load from the Point Source Reserve to the Significant Sewage sector in the future. The minimum monitoring frequency for TN species and TP in new or renewed NPDES permits for Significant Sewage dischargers is 2/week.

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Significant IW Sector

Final NPDES permits with Cap Loads have been issued to all significant IW dischargers as presented in **Table 7**.

Table 7: Significant IW Facilities That Have Received Final Cap Loads.

| NPDES Permit No. | Facility | Latest Permit Issuance Date | Permit Expiration Date | Cap Load Compliance Start Date | TN Cap Load (lbs/yr) | TP Cap Load (lbs/yr) | TN Delivery Ratio | TP Delivery Ratio |
|------------------|---------------------------------|-----------------------------|------------------------|--------------------------------|----------------------|----------------------|-------------------|-------------------|
| PA0007498 | Wise Foods Inc. | 4/12/18 | 4/30/23 | 10/1/13 | 19,957 | 898 | 0.836 | 0.436 |
| PA0007552 | Empire Kosher Poultry | 1/23/17 | 1/31/22 | 10/1/15 | 21,928 | 740 | 0.88 | 0.436 |
| PA0007919 | Cascades Tissue Group | 12/24/13 | 10/31/18 | 11/1/13 | 40,569 | 1,941 | 0.733 | 0.436 |
| PA0008231 | Guilford Mills Inc. | 8/3/11 | 8/31/16 | 10/1/11 | 7,065 | 271 | 0.961 | 0.436 |
| PA0008265 | Appvion Inc. | 2/23/17 | 2/28/22 | 10/1/17 | 61,666 | 7,367 | 0.88 | 0.436 |
| PA0008419 | Cherokee Pharmaceutical | 9/8/16 | 9/30/21 | 10/1/16 | 64,884 | 11,748 | 0.876 | 0.436 |
| PA0008591 | NGC Industries LLC | 10/11/17 | 10/31/22 | 10/1/12 | 2,758 | 132 | 0.941 | 0.436 |
| PA0008885 | Proctor & Gamble Paper Products | 8/25/17 | 8/31/22 | 10/1/11 | 100,360 | 5,441 | 0.733 | 0.436 |
| PA0009024 | Global Tungsten (Osram) | 9/18/17 | 9/30/22 | 10/1/12 | 600,515 | 1,577 | 0.7 | 0.436 |
| PA0009229 | Norfolk Southern Railway Co, | 9/26/19 | 9/30/24 | 10/1/13 | 2,539 | 93 | 0.951 | 0.436 |
| PA0009270 | Del Monte Corp. | 4/24/14 | 9/30/17 | 10/1/14 | 33,196 | 1,492 | 0.836 | 0.436 |
| PA0009326 | Motts Inc. | 12/1/2020 | 12/31/2025 | 10/1/15 | 18,645 | 729 | .961 | .436 |
| PA0009911 | Papetti's Acquisition Inc. | 12/29/16 | 12/31/21 | 10/1/13 | 8,104 | 532 | 0.961 | 0.436 |
| PA0055328 | New Morgan Landfill Co. Inc. | 11/22/16 | 7/31/20 | 10/1/15 | 12,500 | 64 | 0.891 | 0.436 |
| PA0080829* | Keystone Protein | 9/22/14 | 3/31/17 | 10/1/16 | 19,786 | 381 | 0.961 | 0.436 |
| PA0024228 | Hain Pure Protein | 7/19/18 | 7/31/23 | 10/1/14 | 18,982 | 766 | 0.961 | 0.436 |
| PA0035092 | Tyson Foods | 8/15/11 | 8/31/16 | 10/1/14 | 54,794 | 559 | 0.891 | 0.436 |
| PA0035157 | Farmer's Pride Inc. | 7/8/2021 | 7/31/2026 | 10/1/15 | 16,438 | 1,370 | 0.961 | 0.436 |
| PA0044741 | Hanover Foods Corp. | 9/22/15 | 9/30/20 | 10/1/17 | 26,385 | 979 | 0.961 | 0.436 |
| PA0046680 | Republic Services of PA LLC | 4/21/17 | 1/31/22 | 10/1/17 | 50,803 | 300 | 0.961 | 0.436 |
| PA0110540 | Furman Foods | 3/19/18 | 3/31/23 | 10/1/12 | 45,450 | 1,624 | 0.876 | 0.436 |
| PA0111759 | Cargill Meat Solutions | 12/3/18 | 12/31/23 | 10/1/13 | 19,483 | 1,218 | 0.733 | 0.436 |
| PA0008443 | PPL Montour LLC | 6/11/2021 | 8/31/23 | 10/1/18 | 72,749 | 1,200 | 0.941 | 0.436 |

TOTALS: 1,319,556 41,422

* Upon completion of the new facility the load from PA0080829 will be transferred to PA0266345.

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Expansions by any Significant IW discharger will not result in any increase in Cap Loads. New Significant IW dischargers will be given Cap Loads of 0 lbs/yr TN & TP. The minimum monitoring frequency for TN species and TP in new or renewed NPDES permits for Significant Industrial dischargers is 2/week.

Non-Significant Sector

Non-significant dischargers include sewage facilities (Phase 4 facilities: ≥ 0.2 MGD and < 0.4 MGD and Phase 5 facilities: > 0.002 MGD and < 0.2 MGD), small flow/single residence sewage treatment facilities (≤ 0.002 MGD), and non-significant IW facilities, all of which may be covered by statewide General Permits or may have individual NPDES permits.

At this time, there are approximately 850 Phase 4 and 5 sewage facilities, approximately 715 small flow sewage treatment facilities covered by a statewide General Permit, and approximately 300 non-significant IW facilities.

For Significant Sewage and IW sectors, DEP's Cap Loads represent the performance standards by which comparisons can be made to WLAs in the TMDL. Since Cap Loads are not typically established in non-significant facility permits, DEP uses estimates of actual performance through a facility-specific evaluation of 1) Discharge Monitoring Report (DMR) data and 2) DEP inspection sampling results. Where neither of these two sources of performance data exist, DEP uses default data generally used by the Chesapeake Bay Program.

The aggregate WLAs in the TMDL for all non-significant sewage and industrial waste dischargers are as follows:

- 3,006,667 lbs/yr TN
- 842,104 lbs/yr TP

At this time, the following total loads have been estimated for the Non-Significant sector:

- 2,957,836 lbs/yr TN
- 410,598 lbs/yr TP

A list of non-significant sewage and industrial waste dischargers with Cap Loads in NPDES permits is presented in **Attachment C**.

CSO Sector

The aggregate WLAs are as follows:

- 212,920 lbs/yr TN
- 34,709 lbs/yr TP

DEP intends to continue addressing CSOs through its CSO Policy (DEP ID No. 385-2000-011), including the Nine Minimum Controls (NMCs), Long-Term Control Plans (LTCPs) and Post-Construction Monitoring. DEP does not intend to impose monitoring or Cap Loads in NPDES permits for CSOs.

III. Additional Implementation Measures

A. Cap Loads

Cap Loads will be established in permits as Net Annual TN and TP loads (lbs/yr) that apply during the period of October 1 – September 30. For facilities that have received Cap Loads in any other form, the Cap Loads will be modified accordingly when the permits are renewed.

Offsets have been incorporated into Cap Loads in several permits issued to date. From this point forward, permits will be issued with the WLAs as Cap Loads and will identify Offsets separately to facilitate nutrient trading activities and compliance with the TMDL.

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In general, the Cap Loads specified in NPDES permits may be modified only if one or more of the following occur:

- Consolidation of NPDES-permitted discharges, in which the lesser of existing annual loads or the Cap Loads from the treatment facility that will no longer discharge will be added to the Cap Loads in the permit for the treatment facility that will continue discharging.
- DEP or EPA determines that modified Cap Loads are necessary to achieve water quality standards for the protection of the Chesapeake Bay.

B. Offsets

Offsets may be approved for the following nutrient load reduction activities upon receipt of written approval from DEP:

- Connection of on-lot septic systems to the public sewer system, if such on-lot systems were in existence prior to January 1, 2003 and where the facility has the existing hydraulic and organic Capacity to allow such connections. An offset of 25 lbs/yr of TN per dwelling connected may be approved. Such Offsets are cumulative and may be applied annually to meet compliance with Cap Loads.
- Connection of dwellings served by wildcat sewers to the public sewer system. Offsets of 25 lbs/yr of TN and 3 lbs/yr TP may be approved. Such Offsets are cumulative and may be applied annually to meet compliance.
- Receipt of hauled-in septage at the permittee's facility from residential sources within the municipal Act 537 planning area. Three pounds (3 lbs) of TN Offsets per year may be approved per 1,000 gallons of septage accepted and processed at the facility. Offsets may be approved for the acceptance of residential septage only. For the purpose of these Offsets, septage is defined as material removed from a septic tank by pumping. No other hauled-in wastes, including but not limited to holding tank wastes, solids and sludges generated at other facilities, may be approved. Such approved Offsets may only be applied in the Compliance Year in which the septage was accepted, and are not cumulative.

If a joint municipal or regional authority is the permittee, the Act 537 planning area is the combination of all 537 planning areas in municipalities that receive sewer services from the authority. If a treatment facility provides sewer service to one municipality only, the 537 planning area is the entirety of the one municipality.

- The transfer of load between facilities owned by the same entity, where the facilities have Cap Loads. Such Offsets may only be applied in the Compliance Year in which the load was transferred, and are not cumulative. Such transfers may only be authorized if (1) the facility receiving the transfer does not discharge to receiving waters that are classified as impaired for nutrients and (2) the facilities have the same Delivery Ratio for TN or TP, as applicable.

This transfer can occur in two ways: 1) Facility A has discharged a load that is below the Cap Load, in which the difference may be transferred to Facility B (owned by the same entity); or 2) Facility A has Offsets approved in a permit that are not needed to achieve compliance with Cap Loads, and may be transferred to Facility B (owned by the same entity).

- The diversion of flow from an indirect discharger to a new facility. If for example Municipality A is connected to Municipality B's public sewer system for treatment, and Municipality A decides to divert its flows to Municipality C, Municipality C may be approved for Offsets equivalent to Municipality A's actual annual average flow and loads, and Municipality B's Cap Loads may be decreased accordingly.
- Other nutrient load reduction activities may be approved at DEP's discretion. All new proposals for the generation of Offsets must be coordinated with DEP's Bureau of Clean Water.

Offsets may not be approved for new or existing indirect discharges to public sewer systems.

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Unless DEP has specifically authorized to do so in a permit or other agreement, Offsets may not be sold as Credits.

Once approval for Offsets is obtained, the permittee must report the Offsets on the Nitrogen Budget worksheet of DEP's Annual Chesapeake Bay Spreadsheet to apply the Offsets toward compliance with the Cap Loads.

C. Connection of Facilities

If Facility A has a permitted discharge and decides to eliminate the discharge through connection to Facility B, the lesser of the existing annual TN and TP loads or Cap Loads of Facility A may be transferred to Facility B's Cap Load. The transferred loads are not considered Offsets and can be used for nutrient trading purposes.

If Facility A is an indirect discharger to Facility B and decides to remove its flow, opting to obtain an NPDES permit for its own discharge, Facility A will receive zero (0) for Cap Loads and Facility B will retain its original Cap Loads.

D. Non-Significant Facilities

Non-Significant Sewage Facilities

For Phase 4 sewage facilities (average annual design flow on August 29, 2005 \geq 0.2 MGD and $<$ 0.4 MGD), a future decision may be made as to the establishment of Cap Loads in permits. Until then, DEP will permit Phase 4 sewage facilities as follows:

1. Renewed or amended permits for facilities that do not increase design flow (compared to the date of the latest prior permit action) will contain monitoring and reporting for TN and TP throughout the permit term at a frequency no less than monthly.
2. Renewed or amended permits that include an increase in design flow will contain Cap Loads based on the lesser of a) existing TN and TP concentrations at current design average annual flow or b) 7,306 lbs/yr TN and 974 lbs/yr TP.

For Phase 5 sewage facilities with individual permits (average annual design flow on August 29, 2005 $>$ 0.002 MGD and $<$ 0.2 MGD), DEP will issue individual permits with monitoring and reporting for TN and TP throughout the permit term at a frequency no less than annually, unless 1) the facility has already conducted at least two years of nutrient monitoring and 2) a summary of the monitoring results are included in the next permit's fact sheet. If, however, Phase 5 facilities choose to expand, the renewed or amended permits will contain Cap Loads based on the lesser of a) existing TN/TP concentrations at current design average annual flow or b) 7,306 lbs/yr TN and 974 lbs/yr TP.

If no data are available to determine existing concentrations for expanding Phase 4 or 5 facilities, default concentrations of 25 mg/l TN and 4 mg/l TP may be used (these are the average estimated concentrations of all non-significant sewage facilities).

DEP will not issue permits to existing Phase 4 and 5 facilities containing Cap Loads unless it is done on a broad scale or unless the facilities are expanding.

For new Phase 4 and 5 sewage discharges, in general DEP will issue new permits containing Cap Loads of "0" and new facilities will be expected to purchase credits and/or apply offsets to achieve compliance, with the exception of small flow and single residence facilities.

Non-Significant IW Facilities

For non-significant IW facilities, monitoring and reporting of TN and TP will be required throughout the permit term in renewed or amended permits anytime the facility has the potential to introduce a net TN or TP increase to the load contained within the intake water used in processing. In general, facilities that discharge

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groundwater and cooling water with no addition of chemicals containing N or P do not require monitoring. Monitoring for facilities with other discharges will generally conform to the following minimum sampling frequencies, with the permit writer having final discretion:

- Food processing and related discharges, discharges associated with textiles, lumber and paper processing, discharges associated with residual waste management (e.g., landfill leachate, coal ash sluice water) – 1/month.
- Stormwater expected to contain TN or TP, discharges from metal finishing and related processing, discharges associated with chemicals, plastics and allied product manufacturing – 1/quarter.
- Cooling water or other discharges treated with chemical additives containing N and/or P – 1/year.

Non-significant IW facilities that propose expansion or production increases and as a result will discharge at least 75 lbs/day TN or 25 lbs/day TP (on an annual average basis), will be classified as Significant IW dischargers and receive Cap Loads in their permits based on existing performance (existing TN/TP concentrations at current average annual flow).

In general, for new non-significant IW discharges (including existing facilities discharging without a permit), DEP will issue permits containing Cap Loads of “0” and these facilities will be expected to purchase credits and/or apply offsets to achieve compliance.

E. Compliance Schedules

Compliance schedules will continue to be placed in permits through the completion of the initial round of permitting. Compliance schedules may also be used in permits for facilities that are expanding. In general, once a compliance schedule is issued in a final permit and is administratively final, the final date to achieve compliance with Cap Loads should not be modified. In the event a facility is not able to meet Cap Loads by the final compliance date in the permit, nutrient Credits may be purchased to achieve compliance. If the compliance schedule will exceed one year to achieve compliance with Cap Loads, interim milestones must be used in intervals no less than one year.

F. Reporting

Facilities with NPDES permits must use DEP’s eDMR system for reporting, except small flow treatment facilities. An Annual DMR must be submitted by the end of the Truing Period, November 28. As attachments to the Annual DMR a facility must submit a completed Annual Chesapeake Bay Spreadsheet, available through DEP’s [Supplemental Reports website](#), which contains an Annual Nutrient Monitoring worksheet and an Annual Nutrient Budget worksheet. This Spreadsheet will be submitted once per Compliance Year only, and reflect all nutrient sample results (for the period October 1 – September 30), Credit transactions (including the Truing Period) and Offsets applied during the Compliance Year.

G. Nutrient Credits

Nutrient Credits may be used for compliance with the Cap Loads where authorized under 25 Pa. Code § 96.8 (Use of offsets and tradable credits from pollution reduction activities in the Chesapeake Bay Watershed), including amendments, updates and revisions thereto; in accordance with this Wastewater Supplement; the [Phase 2 WIP Nutrient Trading Supplement](#) (Nutrient Trading Supplement); and additional guidance available on DEP’s website (see www.dep.pa.gov/nutrient_trading).

H. Unanticipated Events

DEP may waive the collection of samples and/or the use of data for compliance assessment purposes where flooding or other natural disasters preclude the collection of quality data. Such waivers would be issued to specific facilities based on actual conditions in the field. If such waivers are granted, Credits may not be verified for the period of time covered by the waiver. Facilities will be instructed to use a “no discharge” code on their DMR.

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In addition, where non-compliance with a Cap Load is the result of an unmet obligation of a contractual agreement for Credits resulting from failure of the pollutant reduction activity, the failure of the pollutant reduction activity was due to uncontrollable or unforeseeable circumstances, and the permittee provides timely notice to DEP, DEP may consider the factors contained in 25 Pa. Code 96.8(h)(5)(i), (ii), and (iii) to determine the appropriate resolution.

I. Adaptive Management

DEP will continue to use an adaptive management philosophy to guide decision-making for TMDL implementation. DEP may deviate from the guidelines stated herein where warranted to ensure that total aggregate loads remain at or below the WLAs prescribed by the TMDL. Where DEP deviates from these guidelines, it will be done in a systematic, centralized manner, and will be documented through the submission of status/milestone reports to EPA.

ATTACHMENT A

TMDL WLA ERRORS FOR CERTAIN SIGNIFICANT SEWAGE DISCHARGERS

The following facilities were credited with additional WLA in the TMDL than was intended.

Phase 1 WLA Errors

- Berwick Municipal Authority (PA0023248): additional 92,198 lbs/yr TN and 8,913 lbs/yr TP
- Danville Municipal Authority (PA0023531): additional 66,118 lbs/yr TN and 8,816 lbs/yr TP
- Dillsburg Borough Authority (PA0024431): additional 31,345 lbs/yr TN and 3,726 lbs/yr TP
- Hanover Borough (PA0026875): additional 83,441 lbs/yr TN and 10,959 lbs/yr TP
- Lower Allen Township Authority (PA0027189): additional 114,154 lbs/yr TN and 15,221 lbs/yr TP
- Shippensburg Borough Authority (PA0030643): additional 60,273 lbs/yr TN and 8,036 lbs/yr TP

Phase 2 WLA Errors

- Mt. Carmel Municipal Authority (PA0024406): additional 82,190 lbs/yr TN and 10,958 lbs/yr TP
- Moshannon Valley Authority (PA0037966): additional 31,670 lbs/yr TN and 4,218 lbs/yr TP
- KBM Regional Authority (PA0064025): additional 13,637 lbs/yr TN and 1,705 lbs/yr TP

Phase 3 WLA Errors

- Lackawanna River Basin Sewer Authority (PA0027081): additional 25,572 lbs/yr TN and 3,410 lbs/yr TP
- Little Washington Wastewater Co. (PA0061590): additional 24,073 lbs/yr TN and 3,210 lbs/yr TP
- Gregg Township (PA0114821): additional 23,013 lbs/yr TN and 3,068 lbs/yr TP

ATTACHMENT B

CHANGES BETWEEN SIGNIFIGANT AND NON-SIGNIFIGANT SEWAGE

Numerous changes have occurred since 2010. The following is a summary of changes that have occurred.

- New Morgan Landfill Co. Inc. ("Conestoga Landfill", PA0055328) is now a Significant IW facility because it has modified its treatment process which will result in additional TN load. DEP has issued a final NPDES permit to New Morgan Landfill with Cap Loads of 12,500 lbs/yr TN and 64 lbs/yr TP, with a compliance start date of October 1, 2016. These loads have been moved from the Non-Significant sector to the Significant IW sector.
- Keystone Protein Co. (PA0080829) is a Significant IW discharger due to its existing discharge loads of TN and TP. A final NPDES permit was issued to Keystone Protein with Cap Loads of 19,786 lbs/yr TN and 381 lbs/yr TP at a design flow of 0.15 MGD. These loads have been moved from the Non-Significant sector to the Significant IW sector. However, a new permit (PA0266345) has been issued for a new facility which will be constructed adjacent to the existing facility (PA0080829). The existing facility will be abandoned upon completion of the new facility, which will have a design flow of 3 MGD.
- Swatara Township Authority's NPDES Permit (PA0026735) was amended on August 19, 2015 to account for the connection of a non-significant facility, Lower Paxton Township (Springford Village) (NPDES Permit No. PA0087017). The Cap Loads for Swatara were increased by 3,272 lbs/yr TN and 524 lbs/yr TP due to this connection, and 300 lbs/yr of TN Offsets that were incorporated into Swatara's Cap Load were removed.
- West Branch Regional Authority (PA0234117) has consolidated flows from Montgomery Borough (PA0020699) and Muncy Borough (PA0024325), and Montgomery's and Muncy's permits have been terminated. Cap Loads from Montgomery and Muncy have been reassigned to West Branch. In addition, the Cap Loads for West Branch have been increased by 728 lbs/yr TN and 139 lbs/yr TP for connecting PA College of Technology WWTP (PA0041327), and by 685 lbs/yr TN and 110 lbs/yr TP for connecting Moran Industries (PA0010421). Both industrial facilities have ceased discharging to surface waters and permits were terminated on July 25, 2017 and November 13, 2017 respectively.
- New Morgan Borough STP (PA0088048) has planning approval to expand to 0.5 MGD, but has not submitted a Water Quality Management (WQM) permit application to construct upgraded facilities, and is currently discharging flows below the threshold for significant Chesapeake Bay dischargers (0.4 MGD). The submission of a WQM permit application and issuance of a WQM permit by DEP is required prior to an upgrade. New Morgan's WLAs of 9,132 lbs/yr TN and 1,218 lbs/yr TP have been moved from the Significant Sewage sector to the Non-Significant sector.
- Lower Paxton (PA0088633) was slated to receive Cap Loads of 45,662 lbs/yr TN and 6,088 lbs/yr TP, but has not received an NPDES permit. These WLAs have been retained in the Significant Sewage sector.
- PA Department of Public Welfare (PA0029432) has reduced its design flow from 0.6 MGD to 0.395 MGD. As a result, this facility is no longer considered significant, and Cap Loads were not established in its permit. This facility was projected to receive Cap Loads of 10,961 lbs/yr TN and 1,459 lbs/yr TP which will remain in the Significant Sewage sector in the TMDL. The annual loads for this facility have been moved to the non-significant sector in this document.
- South Mountain Restoration Center (PA0029297) has reduced its design flow from 0.5 MGD to 0.395 MGD. As a result, this facility is no longer part of Phase 3 and Cap Loads were not established in the permit. This facility was projected to receive Cap Loads of 9,136 lbs/yr TN and 1,217 lbs/yr TP in the TMDL, which will remain in the Significant Sewage sector in the TMDL. The annual loads for this facility have been moved to the non-significant sector in this document.
- Bonneauville Borough Authority (PA0028592) has expanded its design flow from 0.331 MGD to 0.55 MGD. A final permit was issued to this facility on October 30, 2006 with Cap Loads of 9,741 pounds/year TN and

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1,218 lbs/yr TP. This facility was previously considered non-significant, and so its load will be moved from the Non-Significant sector to the Significant Sewage sector.

- Elizabethville Area Authority (PA0037737) has a design flow of 0.4 MGD, but was overlooked for the original Significant Sewage sector. It has been issued a final permit with Cap Loads of 7,481 lbs/yr TN and 974 lbs/yr TP. This facility was previously considered non-significant, and so its load will be moved from the Non-Significant sector to the Significant Sewage sector.
- ORD Sewer Authority (PA0228915) has a design flow of 0.4 MGD, but was overlooked for the original Significant Sewage sector. It has been issued a final permit with Cap Loads of 9,748 lbs/yr TN and 1,218 lbs/yr TP. This facility was previously considered non-significant, and so its load will be moved from the Non-Significant sector to the Significant Sewage sector.
- Newville Borough (PA0046221) is expanding to a design flow of 0.6 MGD. It has been issued a final permit with Cap Loads of 7,306 lbs/yr TN and 974 lbs/yr TP. This facility was previously considered non-significant, and so its load will be moved from the Non-Significant sector to the Significant Sewage sector.
- Williamstown Borough (PA0021491) is expanding to a design flow to 0.45 MGD. It has been issued a final permit with Cap Loads of 7,306 lbs/yr TN and 974 lbs/yr TP. This facility was previously considered non-significant, and so its load will be moved from the Non-Significant sector to the Significant Sewage sector.
- Woodward Township (PA0208922) has a design flow of 0.56 MGD, but was overlooked for the original Significant Sewage sector. A permit with Cap Loads of 10,288 lbs/yr TN and 1,364 lbs/yr TP was issued on June 11, 2013. This facility was previously considered non-significant, and so its load will be moved from the Non-Significant sector to the Significant Sewage sector.
- Hallstead-Great Bend Joint Sewer Authority (PA0060518) will be upgrading to a design flow of 0.5 MGD. This facility was originally a non-significant discharger (0.35 MGD). A permit has been issued with Cap Loads of 9,741 lbs/yr TN and 1,218 lbs/yr TP. This facility was previously considered non-significant, and so its load will be moved from the Non-Significant sector to the Significant Sewage sector.
- Leacock Township (PA0084212) will be upgrading to a design flow of 0.45 MGD. It has been issued a final permit with Cap Loads of 7,306 lbs/yr TN and 974 lbs/yr TP. This facility was previously considered non-significant, and so its load will be moved from the Non-Significant sector to the Significant Sewage sector.
- Fredericksburg Sewer & Water Authority (PA0261670) is a new facility with a design flow of 0.433 MGD. It has been issued a final permit with Cap Loads of 7,306 lbs/yr TN and 974 lbs/yr TP. This facility was previously considered non-significant, and so its load will be moved from the Non-Significant sector to the Significant Sewage sector.
- Glendale Valley Municipal Authority (PA0253812) has increased its design flow to 0.45 MGD. Cap Loads are 7,808 lbs/yr TN and 1,041 lbs/yr TP have been issued in the permit. Four non-significant sewage facilities will be have been connected to Glendale Valley Municipal Authority: Glendale Yearound STP (PA0097705), Glendale School District (PA0097411), Matthews Mobile Home Park (PA0035262), and Noel Zimmerman WWTP (PA0204587).
- Zerbe Township Municipal Authority (PA0038865) has expanded to a design flow of 0.5 MGD. Cap Loads of 7,306 lbs/yr TN and 974 lbs/yr TP were issued in the permit. This facility was previously considered non-significant, and so its load will be moved from the Non-Significant sector to the Significant Sewage sector.
- Milton Regional Sewage Authority's (PA0020273) Cap Loads have been revised in the renewed permit. Two non-significant sewage facilities, Watsontown Borough (PA0021733) and Delaware Township Municipal Authority (PA0028606), ceased discharging and connected to the Milton's facility on May 8, 2013, and July 8, 2013, respectively. The NPDES permits for Watsontown and Delaware have been terminated and removed from the non-significant dischargers list. A total of 9,752 lbs/yr TN (7,306 for Watsontown and 2,446 for Delaware) and 1,720 lbs/yr TP (974 for Watsontown and 746 for Delaware) have been added to

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Milton's respective Cap Loads. Offsets due to 703 on-lot retiring systems, which were earlier included in Milton's TN Cap Load, have been removed.

- On December 7, 2011, DEP issued a permit amendment to Lemoyne Borough (PA0026441). The amendment removed the Cap Loads that were to take effect on October 1, 2012. Those Cap Loads were 46,270 lbs/yr TN and 5,784 lbs/yr TP. The permit also specifies that new Cap Loads of 19,433 lbs/yr TN and 2,429 lbs/yr TP will become effective on October 1, 2015, which is beyond the term of the current permit. These Cap Loads were established in the renewed permit. The reduction in Cap Loads is a result of two municipalities deciding to remove its flows that are tributary to Lemoyne's facility, and connect to other facilities: Hampden Township (PA0080314) and East Pennsboro Township (PA0038415) .
- A permit was issued to Tiadaghton Valley Municipal Authority (PA0234079), a new facility, on March 16, 2012 with the same cap loads as those for Jersey Shore Borough (PA0028665). Ownership of the Jersey Shore facility was transferred to Tiadaghton Valley Municipal Authority on October 24, 2012. Permit No. PA0028665 was terminated on January 20, 2015.
- On December 7, 2011, DEP issued a permit amendment to East Pennsboro Township (PA0038415). The Cap Loads were increased from 67,579 lbs/yr TN and 9,011 lbs/yr TP to 72,206 lbs/yr TN and 9,589 lbs/yr TP, due to the receipt of new flows that was diverted from Lemoyne Borough.
- Lycoming County Water & Sewer Authority (PA0209228) has been issued a final permit amendment in which cap loads have been increased by 7,306 lbs/yr TN and 974 lbs/yr TP due to the receipt of sewage flows (0.1 MGD) from the Crown American Lycoming Mall Sewer Plant (PA0046167), which was decommissioned in 2006. This increase of 7,306 TN and 974 TP will be deducted from the Non-Significant sector.
- The permit for Palmyra Borough Authority (PA0024287) has been terminated. The Cap Loads of for Palmyra have been transferred to Londonderry Regional Authority (PA0261262).
- Jackson Township (PA0266566) and Spring Grove Borough (PA0266086) in York County have sewage treatment plants that discharged effluent into PH Glatfelter Company's industrial wastewater treatment facility (PA0008869). Glatfelter used the effluent as a nutrient source for its treatment processes. Glatfelter has notified Jackson and Spring Grove that they must remove their discharges to Glatfelter's facility. Glatfelter was originally considered a Significant IW discharger in the Bay TMDL. Glatfelter has not been assigned Cap Loads to date because of the current belief that they do not actually meet the criteria for a Significant IW discharger. The WLAs assigned to Glatfelter have been moved to the Non-Significant sector. Normally DEP would authorize no new loads to a facility proposing a stream discharge that withdraws from another facility with Cap Loads; however, since Glatfelter does not have Cap Loads, DEP will authorize new loads for Jackson (proposed 0.6 MGD discharge) and Spring Grove (proposed 0.33 MGD discharge). Jackson Township is a Significant Sewage discharger, while Spring Grove is a non-significant discharger. Cap Loads that are assigned to Jackson Township will be moved from the Non-Significant sector to the Significant Sewage Sector (from Glatfelter's original WLAs).
- The Cap Loads for Lewistown Borough (PA0026280) have been increased by 494 lbs/yr TN and 79 lbs/yr TP due to the connection of East Derry Elementary School (PA0083135), whose permit was terminated on January 13, 2010. The annual average design flow for PA0083135 was 0.0065 MGD.
- Columbia Municipal Authority (PA0026123) has ceased discharging and transitioned its flows to Lancaster Area Sewer Authority (LASA) (PA0042269). Columbia's Cap Loads of 36,529 lbs Total TN and 4,871 lbs TP have been transferred to LASA, resulting in Cap Loads of 310,498 lbs/yr TN and 41,400 lbs/yr TP for LASA, effective September 24, 2018.
- Earl Township, Lancaster County (PA0086304) completed an expansion in September 2018, in which the design flow increased from 0.28 MGD to 0.65 MGD. Cap Loads of 7,306 lbs/yr TN and 974 lbs/yr TP are now in effect for the expanded facility.

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- The Cap Loads for Porter-Tower Joint Sanitary Authority (PA0046272) have increased by 2,068 lbs/yr TN and 274 lbs/yr TP due to the connection of Williams Valley School District WWTP (PA0083062), whose permit was terminated. The load has been moved the non-significant sector to the significant sector.
- A permit was issued to Weaverland Valley Authority (PA0266469), a new facility with a design flow of 0.41 MGD, on May 1, 2019. The new facility will receive flow from the Terre Hill Borough WWTP (PA0020222), the Conestoga Wood Specialties WWTP (PA0083909), the Goodville Industrial Center WWTP (PA0085448) and 224 Onlot Disposal Systems. The final permit has Cap Loads of 13,064 lbs/yr TN and 1,531 lbs/yr TP based on the existing loads from Conestoga Wood Specialties WWTP (5,303 lbs/yr TN & 508 lbs/yr TP) and Goodville Industrial Center WWTP (455 lbs/yr TN & 49 lbs/yr TP) and 7,306 lbs/yr TN and 974 lbs/yr TP which is more stringent than existing load (13,064 lbs/yr TN & 1,531 lbs/yr TP) from the Terre Hill Borough WWTP. Additionally; offsets of 5,600 lbs/yr of TN Offsets was issued in the final permit for retiring 224 Onlot Disposal Systems connected to the Weaverland Valley Authority WWTP.
- The Cap Loads for Mountaintop Area Joint Sanitary Authority (PA0045985) have increased by 337 lbs/yr TN and 54 lbs/yr TP due to the connection of the Crestwood School District Rice Elementary School STP (PA0060941), whose permit was terminated on December 9, 2013. The load has been moved the non-significant sector to the significant sector.
- In 2005, the Muddy Run Regional Authority (PA0228842) constructed the 0.4 MGD Madera Wastewater Treatment Plant to address the area's on-lot disposal malfunctions. The NPDES permit was first issued in 2004, and several renewal applications erroneously listed the avg annual design flow at 0.345 MGD. The permit was renewed in January of 2020 with the correct 0.4 MGD, and was assigned nutrient Cap Loads of 7,306 lbs/yr TN and 974 lbs/yr TP. The nutrient loading from this facility has been removed from the Non-Significant Sewage sector and the Cap Loads have been added to the Performance totals for the Significant Sewage sector.
- The Hegins Hubley Authority (PA0276227) was issued a NPDES permit for a new discharge of 0.6 MGD on September 24, 2019. This permit has been added to the Significant Sewage sector with Cap Loads of 0 lbs/yr for both TN and TP.
- The non-significant discharger White Deer Run (PA0114057) ceased discharging on May 18, 2020. The facility was converted to a pump station and its flows were directed to the significant discharger Gregg Township Municipal Authority STP (PA0114821). White Deer Run has been removed from the Non-Significant Sewage sector and its flows have been incorporated into the Cap Loads for Gregg Township, resulting in new Cap Loads of 24,155 lbs/yr TN and 3,250 lbs/yr TP.
- Frystown STP (PA0247910) increased its design flow from 0.0724 MGD to 0.113 MGD, and took on flows from the Pilot Travel Center STP (PA0070360). Pilot Travel Center STP's discharge has now been eliminated, and Frystown STP has received Cap Loads of 8045 lbs/yr TN and 188 lbs/yr TP.

ATTACHMENT C

NON-SIGNIFICANT DISCHARGERS WITH CAP LOADS IN NPDES PERMITS

| NPDES Permit No. | Facility | Latest Permit Issuance Date | Permit Expiration Date | Cap Load Compliance Start Date | TN Cap Load (lbs/yr) | TP Cap Load (lbs/yr) | TN Delivery Ratio | TP Delivery Ratio |
|------------------|--|-----------------------------|------------------------|--------------------------------|----------------------|----------------------|-------------------|-------------------|
| PA0008281 | PPL BRUNNER ISLAND INDUSTRIAL WASTES | 7/27/2018 | 7/31/2023 | 10/1/2009 | 0 | 0 | 0.930 | 0.436 |
| PA0020851 | HYNDMAN STP | 1/31/2020 | 1/31/2025 | 10/1/2013 | 7,306 | 974 | 0.930 | 0.436 |
| PA0021652 | KREAMER MUNI AUTH SEW STP | 3/11/2015 | 3/31/2020 | 4/1/2015 | 7,306 | 974 | 0.733 | 0.436 |
| PA0021776 | FAIRFIELD STP | 11/14/19 | 11/30/2024 | 10/1/2012 | 7,306 | 974 | 0.961 | 0.436 |
| PA0021849 | MILLERSTOWN STP | 6/22/2016 | 5/31/2021 | 10/1/2013 | 6,697 | 974 | 0.627 | 0.670 |
| PA0024651 | ATGLEN BOROUGH STP | 5/16/2016 | 5/31/2021 | 10/1/2014 | 7,306 | 974 | 0.897 | 0.436 |
| PA0036846 | NEW BERLIN BORO MUNI AUTH WTP | 3/12/2021 | 3/31/2026 | 10/1/2016 | 7,020 | 819 | 0.891 | 0.436 |
| PA0044598 | HARRISBURG AIRPORT STP | 8/18/2015 | 8/31/2020 | 9/1/2015 | 7,306 | 974 | 0.951 | 0.436 |
| PA0061123 | MOSCOW SEW AUTH STP | 1/25/2017 | 1/31/2022 | 10/1/2013 | 9,740 | 1,217 | 0.897 | 0.436 |
| PA0065145 | DUNN LAKE LLC | 12/3/2018 | 12/31/2023 | 5/1/2013 | 0 | 0 | 0.951 | 0.436 |
| PA0065307 | COMM ENV SYS LANDFILL | 3/13/2014 | 11/30/2016 | 10/1/2013 | 0 | 0 | 0.961 | 0.436 |
| PA0080756 | HERSHEY FARM MOTOR LODGE | 2/27/2020 | 2/28/2025 | 10/1/2012 | 7,306 | 852 | 0.951 | 0.436 |
| PA0080799 | NEWBURG HOPEWELL JOINT AUTHORITY | 10/5/2017 | 10/31/2022 | 11/1/2017 | 3380 | 325 | 0.951 | 0.436 |
| PA0081264 | PENN NATL HORSE RACE TRACK AND HOLLYWOOD CASINO – WWTP | 10/22/2018 | 10/31/2023 | 2/1/2014 | 5,601 | 700 | 0.683 | 0.670 |
| PA0082279 | SPRING CREEK STP | 9/23/2015 | 9/20/2020 | 10/1/2015 | 7,306 | 974 | 0.871 | 0.436 |
| PA0083607 | UNION TWP LEB CO LICKDALE STP | 4/26/2016 | 4/30/2021 | 10/1/2012 | 7,306 | 974 | 0.951 | 0.436 |
| PA0111422 | THOMPSONTOWN STP | 9/22/2015 | 9/30/2020 | 10/1/2015 | 7,032 | 974 | 0.961 | 0.436 |
| PA0113093 | CHRIST WESLEYAN CHURCH SEWER SYSTEM | 8/18/2017 | 8/31/2022 | 9/1/2020 | 152 | 24 | 0.941 | 0.436 |
| PA0021202 | EAST BERLIN JOINT AUTHORITY – STP | 5/7/2021 | 5/31/2026 | 10/1/2015 | 7,306 | 974 | 0.930 | 0.436 |
| PA0232513 | KELLY CROSSROADS SANI SEW SYS | 8/10/2015 | 8/31/2020 | 9/1/2015 | 0 | 0 | 0.941 | 0.436 |
| PA0232751 | POTTER MILLS CENTRAL TREATMENT SYSTEM | 8/31/2021 | 8/31/2026 | 10/1/2016 | 0 | 0 | 0.951 | 0.436 |
| PA0232971 | FRANKLIN TWP LAIRDSVILLE WWTP | 7/30/2018 | 7/31/2023 | 10/1/2018 | 60 | 9.7 | 0.941 | 0.436 |
| PA0233692 | SOUTH CREEK TOWNSHIP WWTP | 6/11/2020 | 6/30/2025 | 2/1/2015 | 0 | 0 | 0.951 | 0.436 |

Phase 3 WIP Wastewater Supplement
Revised, September 13, 2021

| NPDES Permit No. | Facility | Latest Permit Issuance Date | Permit Expiration Date | Cap Load Compliance Start Date | TN Cap Load (lbs/yr) | TP Cap Load (lbs/yr) | TN Delivery Ratio | TP Delivery Ratio |
|------------------|--|-----------------------------|------------------------|--------------------------------|----------------------|----------------------|-------------------|-------------------|
| PA0234028 | WETLAND EXT PROJ | 5/22/2019 | 5/31/2024 | 10/1/2013 | 0 | 0 | 0.930 | 0.436 |
| PA0247715 | AMBLEBROOK GETTYSBURG | 11/19/2020 | 5/31/2022 | 01/01/2009 | 5479 | 274 | 0.951 | 0.436 |
| PA0248029 | HUSTONTOWN STP | 7/16/2020 | 7/31/2025 | 2/1/2013 | 682 | 85 | 0.749 | 0.670 |
| PA0248061 | JEFFERSON CODORUS STP | 9/21/2020 | 9/30/2025 | 10/1/2013 | 6,624 | 828 | 0.951 | 0.436 |
| PA0260738 | NITTERHOUSE CONCRETE PRECAST PLT | 11/22/2017 | 11/30/2022 | 10/1/2017 | 0 | 0 | 0.683 | 0.670 |
| PA0261131 | TAMARACK MHP | 3/1/2019 | 2/29/2024 | 10/1/2008 | 1,260 | 0 | 0.683 | 0.670 |
| PA0261343 | JOSHUA HILL STP | 7/21/2015 | 7/31/2020 | 8/1/2015 | 0 | 0 | 0.700 | 0.436 |
| PA0261378 | SHEETZ CLARKS FERRY | 11/22/2016 | 11/30/2021 | 10/1/2013 | 38 | 3.8 | 0.961 | 0.436 |
| PA0261416 | READING TWP LAUCHMANS BOTTOM STP | 1/12/2018 | 1/31/2023 | 12/1/2011 | 0 | 0 | 0.951 | 0.436 |
| PA0261572 | MT HOPE NAZARENE RETIREMENT COMM | 1/23/2020 | 1/31/2025 | 10/1/2011 | 605 | 0 | 0.897 | 0.436 |
| PA0261645 | HERITAGE HOUSE WHITE SULPHUR SPRINGS | 11/17/2017 | 11/30/2022 | 10/1/2011 | 380 | 0 | 0.627 | 0.670 |
| PA0261661 | COMFORT INN WASTEWATER | 3/26/2020 | 3/31/2025 | 10/1/2012 | 181 | 0 | 0.961 | 0.436 |
| PA0261718 | WINTER GREENES HOMEOWNERS ASSOCIATION | 10/26/2018 | 10/31/2023 | 7/1/2012 | 0 | 0 | 0.683 | 0.670 |
| PA0262072 | KNOUSE FOODS PEACH GLEN FRUIT PROC FAC | 4/20/2016 | 4/30/2021 | 5/1/2016 | 0 | 0 | 0.961 | 0.436 |
| PA0262137 | LOG CABIN MHP STP | 9/15/2015 | 9/30/2020 | 10/1/2015 | 0 | 0 | 0.891 | 0.436 |
| PA0263711 | BENEZETTE WWTP | 4/17/2018 | 4/30/2023 | 10/1/2012 | 0 | 0 | 0.871 | 0.436 |
| PA0266086 | SPRING GROVE STP | 9/23/2015 | 9/30/2020 | 10/1/2015 | 7,306 | 974 | 0.961 | 0.436 |
| PA0266663 | GETTYSBURG BATTLEFIELD RESORT STP | 6/21/2018 | 6/30/2023 | 10/1/2018 | 0 | 0 | 0.627 | 0.670 |
| PA0276073 | LAKE CAREY WWTP | 7/19/2018 | 7/31/2023 | 10/1/2018 | 0 | 0 | 0.733 | 0.436 |
| PA0247910 | BETHEL TOWNSHIP FRYSTOWN STP | 5/24/2021 | 7/31/2024 | 6/1/2021 | 8,045 | 188 | 0.961 | 0.436 |