# PHILADELPHIA'S WET WEATHER MANAGEMENT PROGRAMS

# COMBINED SEWER MANAGEMENT PROGRAM ANNUAL REPORT

National Pollutant Discharge Elimination System (NPDES) Permits
Nos. PA0026689, PA0026662, PA0026671

# STORMWATER MANAGEMENT PROGRAM ANNUAL REPORT

National Pollutant Discharge Elimination System (NPDES) Permit
No. PA 0054712

Reporting Period July 1st 2024 to June 30th 2025



Submitted to:

**PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION**
Clean Water

And

**ENVIRONMENTAL PROTECTION AGENCY – REGION III**
Water Protection Division

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# Combined Sewer Management Program Annual Report

**National Pollutant Discharge Elimination System (NPDES) Permits**
**Nos. PA0026689, PA0026662, PA0026671**
**Reporting Period July 1, 2024, to June 30, 2025**

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# I. Management and Control of CSOs

This report is submitted pursuant to meeting the requirements of NPDES Permits #'s PA0026662, PA0026671, and PA0026689, PART C, I. Other Requirements, Combined Sewer Overflows (CSOs), III. Implementation of the Long Term CSO Control Plan, C. Watershed-Based Management, IV. Monitoring and Assessment. This section requires that the permittee submit an Annual CSO Status Report. The purpose of this report is to document the status and changes made to programs implemented by the City of Philadelphia (City), during Fiscal Year 2025 (FY25), which encompasses the period of July 1st, 2024 through June 30th, 2025, to manage and reduce the CSOs permitted to discharge to waters of the Commonwealth of Pennsylvania.

# II. Implementation of the Nine Minimum Controls

The Philadelphia Water Department (PWD) submitted an Updated Nine Minimum Control Report to the Department on June 1, 2013, to supplement the 1995 report and describe current activities as a result of new technology or practices. The nine minimum controls (NMCs) are low-cost actions or measures that can reduce CSO discharges and their effect on receiving waters, do not require significant engineering studies or major construction, and can be implemented in a relatively short time frame.

## II.A NMC 1 - Proper Operation and Regular Maintenance Programs for the Sewer System and the CSOs

### II.A.1 Implement a Comprehensive Geographic Information System (GIS) of the City Sewer System

To ensure PWD's investment in GIS is as accurate and up to date as possible, edits and improvements are made to data daily. PWD utilizes the GIS coverages as the foundation for many of its operations including maintenance management, capital improvements, and hydraulic modeling.
During FY25, GIS layers were updated and maintained to ensure the accurate tracking and reporting of PWD assets and infrastructure.

### II.A.2 Implement a Comprehensive Sewer Assessment Program (SAP)

PWD continues to implement a comprehensive SAP to provide inspection of the collection system using closed circuit television (CCTV) and sonar. The SAP is a critical tool for operations and maintenance as it provides information on existing pipe conditions and helps to locate where repairs are needed. The program is also used to guide the capital improvement program to ensure that the existing sewer systems are adequately maintained, rehabilitated, and reconstructed.

CCTV inspections are conducted/managed by PWD's Flow Control group and performed by PWD personnel and contractors. During FY25, 57.95 miles of sewer inspections were completed via CCTV, averaging about 4.83 miles a month as shown in **Table 1 Monthly TV Inspections.** In addition, the CCTV Unit completed a total of 2,600 inspections of green stormwater infrastructure systems during FY25.

**Table 1: Monthly CCTV Inspections**

| Date | Collector Systems (Miles Inspected) |
|---|---|
| Jul-24 | 2.23 |
| Aug-24 | 2.45 |
| Sep-24 | 3.39 |
| Oct-24 | 6.13 |
| Nov-24 | 3.94 |
| Dec-24 | 3.07 |
| Jan-25 | 3.59 |
| Feb-25 | 5.65 |
| Mar-25 | 8.32 |
| Apr-25 | 8.07 |
| May-25 | 6.94 |
| Jun-25 | 4.16 |
| **Average** | **4.83** |
| **Total** | **57.95** |

## II.B NMC 2 - Maximum Use of the Collection System for Storage

### II.B.1 Continue to Institutionalize a Comprehensive Monitoring and Modeling Program

*Monitoring*

PWD maintains an extensive monitoring network throughout the combined sewer system including rain gages, pump stations, and connections from adjacent outlying communities. Information on the monitoring network with an updated listing of the monitors, rain gages, and pumping stations can be found in **Appendix B - Flow Monitoring**.

*Modeling*

The hydrologic and hydraulic (H&H) models will be updated as needed to support Nine Minimum Controls implementation and reporting.

### II.B.2 Continue to Operate and Maintain a Network of Permanent and Temporary Flow Monitoring Equipment

PWD continues to maintain a CSO permanent monitoring network with temporary monitoring programs to support planning for CSO control projects and to minimize dry weather overflows and tidal inflows.

*Permanent Flow Monitoring Program*

PWD uses a network of permanent flow monitors that are connected to a newer data acquisition system (TELOG) which uses cellular-based telemetry and improved enterprise data management software. As of FY25, the Collector System Monitoring Network is connected to over 320 sites at various locations

including CSO regulators, rain gages, pump stations, interceptors, chemical feed tanks, and hydraulic control points which collect over 720 individual measurements with over a ninety percent (90%) operational status. All monitoring devices deployed throughout the PWD collection system continually store data and periodically communicate monitoring information back to the Collector Systems Headquarters for review and use by staff. The listing of permanent flow monitors can be found in **Appendix B – Flow Monitoring.**

### *Temporary Flow Monitoring Program*

PWD maintains its temporary flow monitoring program, initiated in July 1999, which consists of deploying portable flow meters throughout targeted Philadelphia sewershed areas to quantify sanitary and combined flow from the sewer system and characterize the tributary sewersheds. During FY25, PWD monitored 90 sites for the purposes of model calibration, inflow/infiltration (I/I) identification, design support, etc. The listing of all temporary flow monitors, their location, and the deployment projects can be found in **Appendix B – Flow Monitoring: Table 6 – Listing of all Temporary Flow Monitors Deployed by Projects.**

## II.B.3 Continue to Evaluate the Collection System to Ensure Adequate Transport Capacity for Dry and Wet Weather Flow

### *Long Term Control Plan Update*

System-wide H&H models have been developed in support of the CSO Program and the Long Term Control Plan Update (LTCPU). Model evaluations have been performed to evaluate the system performance benefits of various system improvement scenarios.

The evaluations of the system-wide models were completed in FY08 to support the LTCPU development. Since 2008, EPA's Stormwater Management Model (SWMM) has been updated to SWMM 5. PWD continues to update the H&H models as needed to support planning and regulatory reporting needs. A summary overview of the H&H model rebuild is provided with a full description included in Appendix C of the Year 10 Evaluation and Adaptation Plan (EAP).

### *PC-30 Extreme Wet Weather Overflow*

PWD continues to monitor PC-30. For additional information on other efforts conducted for this site, please refer to **Section III.B.2: Table 13** on page 38.

### *Flood Risk Management*

PWD has a robust flood risk management program to analyze and reduce property damage from flooding and basement backups. Aspects of this program include property data collection, implementing individual property mitigation when appropriate, sewer system H&H analysis to understand flood prone areas, and developing policies to reduce flood risk in the city.

### *Flood Relief Project Summary*

The focus of PWD's flood risk management efforts include historic flood prone neighborhoods such as South Philadelphia, Northern Liberties, Germantown, and Eastwick. The goal of these efforts is to improve the conveyance of stormwater by targeting peak flow and volume reduction and reducing the potential for flooding. Hydrologic and hydraulic modeling indicates that sewer system improvements or source reduction can sometimes reduce the frequency and/or severity of flooding events. However, the

potential benefits of structural improvements to the city's drainage infrastructure must always be counterbalanced by the financial, economic, and social impacts of implementation. PWD continues to refine and optimize mitigation alternatives to minimize negative impacts to communities.

To better understand and define surface flooding and sewer backups from the collection system, PWD has embarked on a citywide 2-dimensional modeling approach using PCSWMM. The modeling effort is on-going, but the finished deliverables will have maximum flood depths and inundation areas mapped for a variety of design storms which will be used to better inform capital planning. As of FY2025, PWD has completed the modeling for T14, D44, D45, D68, D69, D70, D25, S42/42A, S50, D37, D38, D39, D17, D18, D20, D21, and D54. PWD has also started to include end of century projections for precipitation and sea level rise into the analyses to better understand which areas of the city become more vulnerable over time.

### *South Philadelphia*

In FY25, PWD completed the design for modifying the D67 regulating chamber for the Moore Street Storm Flood Relief (SFR) Project. The project originally involved the construction of 8' x 12' reinforced concrete box sewers that drain to the Delaware River. However, PWD's refined modeling methodology at the parcel level demonstrated fewer net benefits associated with constructing the box sewers compared to modifying the regulating chamber.

### *Northern Liberties*

SFR sewer projects were initiated in the Northern Liberties neighborhood to reduce flood risk in the combined sewer neighborhoods of Northern Liberties, Fishtown, Port Richmond, and Lower Kensington. **Table 2** demonstrates the status of the Northern Liberties SFR program at the end of FY25:

**Table 2: Northern Liberties SFR Sewer Improvement Projects**

| Project Name | Location | Project Status |
|---|---|---|
| Northern Liberties Phase 1 | Delaware Avenue and Laurel Street | Construction Complete (2011) |
| Northern Liberties Phase 2 | Canal Street Chamber | Construction Complete (2016) |
| Northern Liberties Phase 3 | Delaware Ave to River (Undertaken by Sugar House) | Construction Complete (2016) |
| Northern Liberties Phase 4 | Canal & Laurel Sts. to Germantown Ave. &Wildey St. | Construction Complete (2016) |
| Northern Liberties Phase 5 | Germantown Ave. from Wildey St. to Girard Ave. | Construction Completed (2022) |
| Northern Liberties Phase 6 | Germantown Ave. & Thompson St. to Master & Randolph Sts. | In Projects Control[1] |

[1] BRIC Grant submitted. Awaiting award decision

### *Germantown*

The East Germantown section of Philadelphia has been impacted by flooding from intense rainstorms, such as Hurricane Irene (8/27/11) and Tropical Storm Lee (9/7/11). PWD's N. 21st Street Sewer Improvement Project, which aims to reduce residual flooding in this area, has been designed, bid, and awarded. Construction of this project is set to be underway in FY26.

PWD successfully awarded a 3-year professional services contract to advance the feasibility and integration of the Wingohocking Creek Storm Flood Relief/Combined Sewer Overflow Tunnel. This study is focusing on hydraulic optimization, operability, community and stakeholder engagement, and the evaluation of regulatory impacts. Work on this contract will commence in FY26. PWD was successfully awarded William Penn Foundation grant funding to support geotechnical investigations and community engagement in support of advancing the implementation of the Wingohocking Creek Storm Flood Relief/Combined Sewer Overflow Tunnel.

#### *Eastwick*

The Eastwick neighborhood is in a naturally low-lying area in southwest Philadelphia. The neighborhood has experienced severe riverine flooding from multiple storms including Hurricane Floyd, Hurricane Irene, Tropical Storm Lee, and Hurricane Isaias. The City of Philadelphia, acting through PWD, executed the Federal Cost Share Agreement in May 2019 to move forward with the feasibility study through the Continuing Authorities Program. The United States Army Corps of Engineers (USACE) completed the draft feasibility study in August 2023. The USACE are still working through evaluating complimentary measures in reducing the induced flood risks throughout FY26. The EPA and the City's Office of Sustainability have continued to refine a separate hydraulic model with the goal of establishing the height and placement of HESCO barriers as an interim flood protection measure while the implementation of the levee is still a decade away.

### II.B.4 Fully Integrate the Real-Time Control Facility into the Operations of PWD

#### *Real Time Control Evaluation*

Several projects were previously evaluated for Real Time Control; for additional information on these projects, please refer to Section 2.1 Evaluate Real Time Control in LTCP on page 10 of the 1996 Annual CSO Status Report and Section II.B.3.4 Real Time Control Evaluation on page 26 of the CSO-Stormwater FY10 Annual Report. For details regarding the current operational statuses of the City's real time control CSO regulator sites, see **Section II.B.5** below.

There are currently three projects in the Department's design process that are being evaluated for the use of real-time control technology:

#### D-05 CSO Regulator (State Road and Magee Avenue)

The D-05 regulator has been examined for additional CSO capture through the installation of a new, enlarged interceptor connection with a real-time controlled sluice gate. At the end of FY25, construction is substantially complete and will be placed in operation in FY26. This project is expected to result in enhanced storage and conveyance of wet weather flows via modification to an existing computer controlled CSO.

#### Thomas Run Relief Sewer (R-01)

A capital construction project for the modification of the Thomas Run relief sewer has been initiated and design has begun. The project is evaluating the potential for this system to be maximized for in-line storage during wet weather by creating a static dam, a new interceptor connection, and CSO regulator site. Alternatives considered include relocating the outfall to minimize disruption to trees and recreational areas in the Cobbs Creek Park.

#### Southwest Drainage District Regulator Modification (S-20)

The primary project goal is to increase the flow capacity through the regulator to decrease CSO volumes in the Southwest Drainage District. The project will include increasing the opening area of the existing DWO, removal of existing Brown & Brown regulator, and will consider implementation of locally actuated, real-time flow control. At the end of FY25, this project was at 50% design status and currently has a target design complete date of FY26.

### II.B.5 Operate and Maintain In-Line Collection Storage System Projects Contained within the LTCP

#### *Main Relief*

The Main Relief project is operating as designed with a 7.5-foot static dam. The current configuration achieves an overflow reduction of approximately 30 MG annually.

#### *Tacony Creek Park (T-14)*

The T-14 storage sewer provides combined sewer overflow capture in the Northeast Drainage District (NEDD). The T-14 storage sewer system is operating under automated controls and reducing overflow volume during wet weather events. T-14 operated at the full design level during FY25.

#### *Rock Run Relief (R-15)*

The Rock Run Relief Sewer provides flood relief to combined sewer areas upstream of regulator T-8 in the Northeast Drainage District (NEDD). An inflatable dam was constructed in the Rock Run Relief Sewer to allow for utilization of in-system storage to retain combined flows during wet weather events. The Rock Run storage facility operated at the full design capacity during FY25.

#### *Computer-Controlled CSO Regulators*

PWD has eight computer-controlled CSO regulators that are configured to maximize storage during wet weather. All PWD computer-controlled regulators are in the Northeast drainage district (NEDD). As of FY25, control upgrades were installed in seven of the eight computer-controlled regulators. F-25 is the final computer-controlled CSO regulator site to be upgraded so that all computer-controlled cabinets from D-2 through F-25 will be uniform with the newest PLC and Unity Software.

## II.C NMC 3 - Review and Modification of Pretreatment Requirements to Assure CSO Impacts Are Minimized

### II.C.1 Expand the Pretreatment Program to Include Significant Industrial Users (SIUs) Whose Facilities Contribute Runoff to the Combined Sewer System

The City of Philadelphia's Pretreatment Program regulates all Significant Industrial Users (SIUs) that discharge into PWD's service area, which includes SIUs in both the separate and combined sewer systems. The City continually reevaluates the Pretreatment Program to determine if improvements can be made. Through annual monitoring and inspection activities, PWD currently regulates 117 SIUs that discharge to the sanitary system. PWD conducts SIU program review and inspections on a calendar year cycle, having inspected all 117 permitted facilities during the 2024 calendar year.

PWD also maintains a website to inform the public and industries of permitting regulations, requirements and other information that may benefit or impact industrial users. Information on the City of Philadelphia's Pretreatment Program and industrial requirements is located at the following web address: water.phila.gov/industrial-waste.

### II.C.2 Incorporate Guidance on BMPs for Industrial Stormwater Discharges into Stormwater Management Regulations Guidance

The Philadelphia Stormwater Management Guidance Manual was developed to assist developers in meeting the requirements of the Philadelphia Stormwater Regulations and is updated when necessary to incorporate new information. The current version of the manual is available at https://water.phila.gov/development/stormwater-plan-review/manual/.

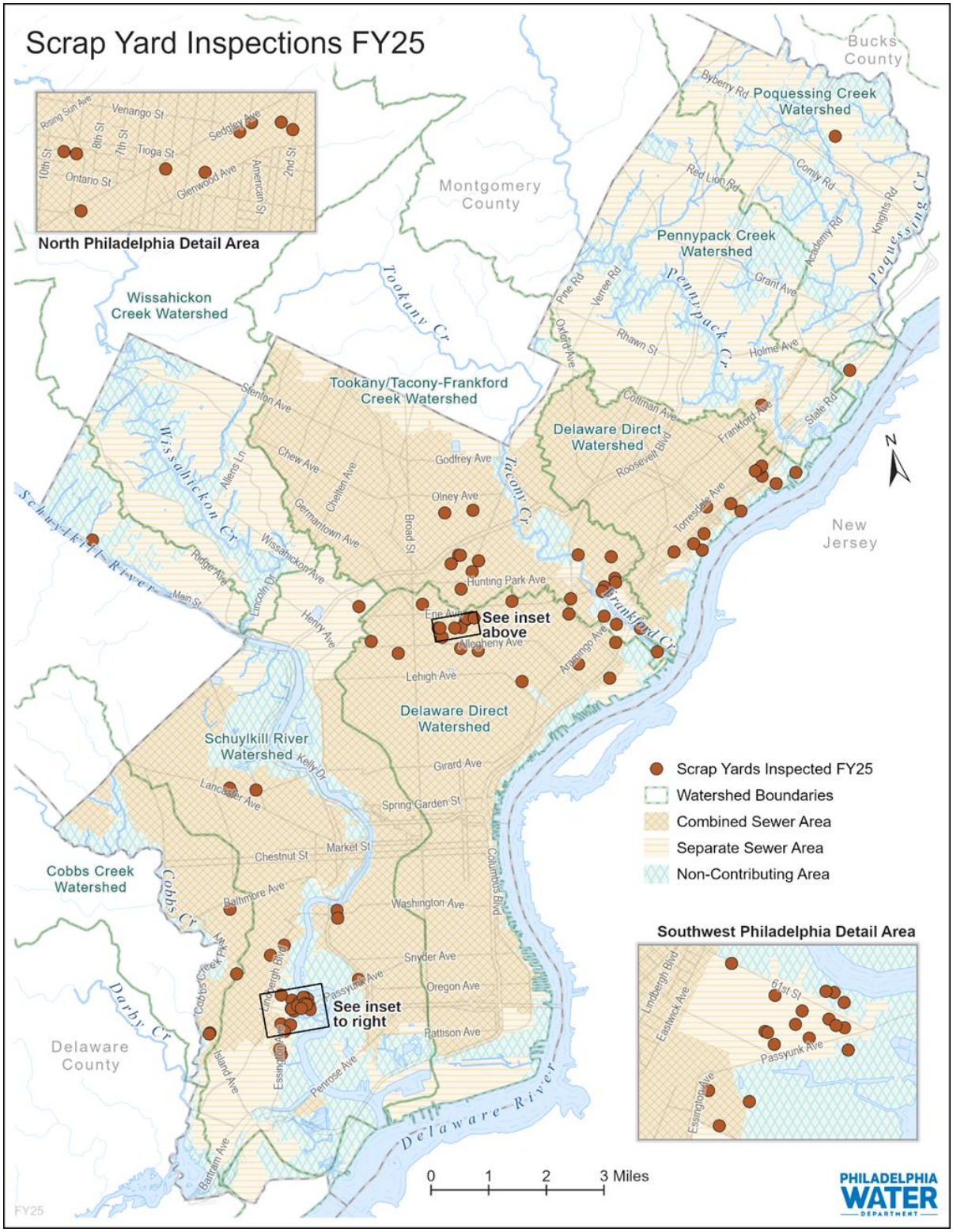
Please refer to the MS4 Annual Report **Section F.5.g - Stormwater BMP Handbook and Construction Site BMP Sediment & Erosion Control Checklist** on page 29 for additional information on the updated manual.

### II.C.3 Continue to Serve as a Member of the Philadelphia Inter-Governmental Scrap and Tire Yard Task Force

The Scrap Yard Task Force (SYTF) was created to address numerous complaints about the operation of scrap metal and auto salvage businesses, which may cause polluted runoff to enter the city's sewers, blight in city neighborhoods, and contribute to short dumping and other environmental hazards to area waterways. The goal of the taskforce is to ensure businesses conducting metal and auto salvage activities, including tire salvage, are following appropriate regulations. Agencies that have been involved with the SYTF include PWD, PADEP's Solid Waste division, Philadelphia Department of Licenses and Inspections (L&I), Philadelphia Police Auto Squad, and the Philadelphia Fire Department Hazmat Administration Unit. Over recent years, staffing from these agencies for the SYTF program has been reallocated to other priorities.

In FY25, the City issued 14 new and 59 renewed Auto Wrecking/ Waste Handling (formally tire storage) licenses, 36 new and 42 renewed Tire Dealer licenses, 19 new and 518 renewed Hazardous Materials licenses, and 12 new and 48 renewed Precious Metal Dealer licenses. In FY25, 96 inspections were conducted at suspected scrapyard facilities, 64 facilities were issued violations, 11 suspected sites were confirmed to be no longer operating as scrap metal and auto salvage business, and 21 facilities had no violations issued following the inspection. The locations of the inspections are displayed in **Figure 1: SYTF Sites Inspected in FY25** on page 13.

**Figure 1: SYTF Sites Inspected in FY25**



## II.D NMC 4 - Maximization of Flow to the Publicly Owned Treatment Works (POTW) for Treatment

### II.D.1 Continue to Analyze and Implement Non-Capital-Intensive Steps to Maximize the Wet Weather Flow to the POTW

*Modified Regulator Plan*

The Modified Regulator Plan (MRP) was designed to deliver more flow to the water pollution control plants (WPCPs) more frequently and enable greater pollutant removals. The projected flow increase associated with the MRP was implemented by the submission of the 1997 Annual Combined Sewer Overflow Status Report. Additional plan implementation efforts were included in the Updated Nine Minimum Controls Report which can be found online by accessing the following link: http://water.phila.gov/pool/files/NMC_Report_Final.pdf.

*Maximization of Wet Weather Treatment in the LTCPU*

PWD operates three Water Pollution Control Plants (WPCPs): the Northeast, Southwest, and Southeast WPCP. The Wet Weather Facility Plan (WWFP), which was submitted on June 1, 2016, provides details on scheduling, cost, and anticipated construction completion for each project. The WWFP is available at the following link: Wet_Weather_Facility_Plan_website.pdf (phila.gov).

### II.D.2 Continue the Program Which Requires Flow Reduction Plans in Agreements to Treat Wastewater Flows from Satellite Collection Systems Where Violations of Contractual Limits are Observed

PWD provides wastewater service to some of its neighboring communities. Communities that exceed their contractual limits must develop flow reduction plans, under PWD review. A comprehensive report on the Wholesale Wastewater Customer contracts, flow exceedances and flow reduction plans are reported in PWD's annual Chapter 94 Wasteload Management report.

**Table 3: Listing of Wholesale Wastewater Customer Contracts and Capacities**

| Customers | Average Annual Daily Flow Maximum (MGD) | Maximum Daily Flow (MGD) | Instantaneous Maximum Rate (Cubic ft./sec) |
|---|---|---|---|
| **Northeast Plant** | | | |
| Abington | 3.0 | 4.5 | 9.5 |
| Bensalem | 6.1 | - | 11.7 |
| Bucks | 24.0 | 33.0 | 74.3 |
| Cheltenham | - | - | 26.0 |
| Lower Moreland | 1.9 | 2.9 | 5.9 |
| Lower Southampton | 7.1 | 9.3 | 15.8 |
| **Southwest Plant** | | | |
| DELCORA | 50.0 | 75.0 | 155.0 |
| Lower Merion | 14.5 | - | 31.6 |
| Springfield (Erdenheim) | 3.2 | - | 6.7 |
| Upper Darby | 17.0 | - | 35.0 |
| **Southeast Plant** | | | |
| Springfield (Wyndmoor) | 1.0 | - | 1.9 |

### II.D.3 Use Comprehensive Monitoring and Modeling Program to Identify Suburban Communities Where Excessive Rainfall-dependent I/I Appear to be Occurring

The US EPA's SWMM was used to develop the watershed-scale model for the combined and separate sanitary sewer systems. Suburban communities are modeled as separate sanitary sewersheds that load to the PWD sewer network. The rainfall response from these sheds is calibrated to flow monitoring data collected at each respective connection to PWD sewer network (if the sewershed is not monitored then a reference shed is used to obtain the rainfall response). Presently, permanent and temporary flow monitors are installed at 62 connections. **Appendix B – Flow Monitoring: Table 2** contains the list of all known connections, their location and whether the connection is permanently monitored.

### II.D.4 Maintain and Modify Combined Sewer Collection System/Chambers to send more flow to the POTW

PWD monitors regulating chambers regularly. Issues are identified and addressed as soon as possible. Modifications include the following:

- D-40: The regulator dam was repaired on 10/31/2024. PWD Operations filled in a notch cut in the top of the dam.
- T-14: DWO gate 2 was set to 39% open on 5/5/2025 to allow for repairs to the electronic controls.
- T-14: The SWO crest gate was locked at 78% open on 6/5/2025 while issues with the hydraulic control system are addressed.

**Appendix D – FY25 NPDES Annual CSO Status Report:** Table 2 shows the CSO volume, duration, and frequency of overflow events per permitted outfall for the rainfall that fell in FY25 utilizing SWMM 5 model version 2017.B.02.05. Table 3 shows the same statistics as Table 2 but for the typical year rainfall utilizing the SWMM model that supports the Year 10 EAP submitted in May 2022.

## II.E NMC 5 - Prohibition of CSOs during Dry Weather

### II.E.1 Optimize the Real-Time Control Facility to Identify and Respond to Blockages and (non-chronic) Dry Weather Discharges

Regular inspections, reactive inspections, and maintenance of combined sewer overflow (CSO) regulators are performed throughout the city to ensure that sediment accumulations and/or blockages are identified and corrected immediately to avoid dry weather overflows. PWD utilizes daily a remote monitoring network system to help identify locations showing abnormal flow patterns.

#### *CSO Regulator Inspection & Maintenance Program*

PWD maintains 175 CSO regulator chambers with regulator devices that control the diversion of wastewater flow to the interceptor system and 26 storm relief diversion chambers that allow excess flow during storm events to be diverted to storm relief sewers. These chambers discharge through 164 NPDES permitted point sources which make up the CSO outfalls. The maintenance of the chambers is critical to the performance of the system in that they control the frequency, duration, and quantity of CSO discharges.

PWD continues to implement its policy of conducting next day follow-up inspections at sites that experience a dry weather discharge. Ongoing assessment of all inspection scheduling continues to ensure that CSO regulators are inspected at the frequency required to ensure timely response to operational issues and minimize the likelihood of dry weather discharges. During FY25, Flow Control crews completed 3,881 inspections on 201 CSO regulator sites and storm relief diversion chambers. The crews cleared 145 CSO regulator blockages to prevent possible discharges from developing. There was 1 dry weather discharge during FY25. Details of the inspections during FY25 can be found in **Appendix C – FY25 CSO Maintenance Program Annual Report.**

#### *Tide Gate Inspection and Maintenance Program*

Tide gates are located at approximately half of the CSO regulator chambers in the city's system and prevent tidal inflow into the combined sewer system from the estuary receiving water body. Maintenance of the 89 gates is critical to system performance because inflow from the receiving water body can adversely affect the combined sewer system and treatment facilities by reducing system capacities, potentially causing dry weather discharges. In FY25, CSO tide gate preventative maintenance was completed 149 times at 17 of the tidally affected CSO regulator sites. Summaries of the tide gate inspection and maintenance completed during the past fiscal year are in **Appendix C – FY25 CSO Maintenance Program Annual Report**, which documents the locations of tide gate preventative maintenance performed in FY25. PWD regularly inspects regulators, pump stations, junction chambers, and sewers which are known to accumulate grit. These sites are scheduled for flushing and vacuuming on an as-needed basis.

#### *Somerset Grit Chamber Cleaning/D-25 Regulating Chamber*

The Somerset grit chamber was previously removed from service because the upstream regulator (D-25) was being relocated. This relocation project was completed during FY16. During FY25, PWD cleaned and removed a total of 24.41 tons of debris and grit from the D-25 regulating chamber.

#### *D-37 Regulating Chamber*

During FY25, approximately 400 LF of the D-37 regulating chamber was cleaned, though no debris removal was reported

#### *D-45 Regulating Chamber*

During FY25, PWD cleaned and removed a total of 100.08 tons of debris and grit from the D-45 regulating chamber.

#### *Central Schuylkill Pumping Station (CSPS) Grit Pocket Cleaning*

During FY25, the two grit pockets at the CSPS siphon were not cleaned due to the rehabilitation of the station and vendor availability. Additional information on the CSPS cleaning activities conducted in FY25 is available in **Appendix C – FY25 CSO Maintenance Program Annual Report.**

## II.F NMC 6 - Control of Solid and Floatable Materials in CSOs

### II.F.1 Control the Discharge of Solids and Floatables by Cleaning Inlets and Catch Basins

PWD's Inlet Cleaning Unit (ICU) is responsible for inspecting and cleaning stormwater inlets within the city. When fully staffed, there are forty-one inlet cleaning crews whose primary duties include cleaning, removing, and properly disposing of debris (solids and floatables) from inside city inlets as well as street

level cleaning in the vicinity of inlets to prevent debris from entering the collection system and waterways. Other duties include inspection of inlet conditions and referral of structural defects to the Sewer Maintenance Unit for repair to ensure proper function. Crews are responsible for cleaning high volume traffic areas, retrieving and installing inlet covers, replacing missing inlet covers, installing locking covers, and unclogging choked inlet traps and outlet pipes so inlets can take water. A high level of focus is placed on responding to customer complaints of flooding, blockages, and foul odors.

During FY25, the ICU was responsible for maintenance of approximately 72,000 stormwater inlets connected to the city's combined and separate storm sewer systems (gray inlets). ICU is also responsible for cleaning of pretreatment on stormwater inlets connected to green stormwater infrastructure (green inlets). By the end of the year, ICU was responsible for monthly preventative maintenance of approximately 2,920 green inlets. Fiscal year totals for work on Green Stormwater Infrastructure (GSI)-connected inlets included 21,096 inlet inspections and 20,122 pretreatment cleanings.

Statistics related to the ICU's work productivity during FY25 can be found in **Table 4**, below. The quantities for inlets inspected, inlets cleaned, debris removed, and pounds per inlet during FY25 include work conducted at both gray and green inlets. The process of dewatering debris at a central location has increased cleaning efficiency (higher number of inlets cleaned per crew) and decreased the weight of materials taken for disposal.

**Table 4: Inlet Cleaning Statistics**

| | FY25 |
|---|---|
| Total Inlets Inspected | 123,160 |
| Total Inlets Cleaned | 82,102 |
| Total Covers Replaced | 148 |
| Total Covers Retrieved | 25 |
| Total Covers Chained | 978 |
| Debris Removed (tons) | 4,548 |
| Avg. Lbs./ Inlet | 111 |

## II.F.2 Continue to Fund and Operate the Waterways Restoration Team (WRT)

PWD's Waterways Restoration Team (WRT) is a multi-crew force dedicated to performing stream examinations, infrastructure protection projects, and cleanup work throughout the city including large trash and debris removal and restoration of eroded streambanks and streambeds. WRT's stream examinations consist of assessing a variety of field conditions including waterway, infrastructure, site access, and sewage discharge assessments. WRT waterway maintenance work involves debris removal, stream restoration work, and assisting with sewer maintenance work to help provide a safe work environment while protecting stream ecosystems. WRT works in partnership with Philadelphia Parks and Recreation (PPR) staff and various Friends of the Parks groups to maximize resources and build positive relationships with our communities.

During FY25, WRT conducted 308 stream examinations and performed maintenance 526 times. WRT removed a total of 739 tons of debris from the city's waterways (**Table 5**). Of the total debris removed, most of the weight can be attributed to large organic material (e.g. trees) that have fallen into the waterways and restricted flow, thus increasing the potential for bank erosion and/or damage to infrastructure.

**Table 5: Waterways Restoration Team – Annual Activity Summary FY22-FY25**

| Activity | FY22 | FY23 | FY24 | FY25 |
|---|---|---|---|---|
| Total Tons Removed | 525 | 360 | 802 | 739 |
| Cars Removed | 3 | 0 | 0 | 0 |
| Tires Removed | 1559 | 81 | 166 | 44 |
| Shopping Carts Removed | 8 | 12 | 11 | 19 |
| # of Stream Site Cleanups | 543 | 520 | 490 | 526 |
| # of Stream Site Exams | 365 | 279 | 165 | 308 |

## II.F.3 Continue to Operate and Maintain a Floatables Skimming Vessel

Skimming vessels are one of the control measures to remove floatable material from the Schuylkill and Delaware River. These vessels also increase public awareness and help to educate on the impact of floatables to Philadelphia's receiving waterways. PWD skimming program operates M-F during the boating season (April to November depending on the weather) and uses marine vessels (boats, barges, etc.) to retrieve floating trash and debris from the Schuylkill and Delaware Rivers within Philadelphia.

The current skimming contract serves the role that both the PWD large and smaller skimming vessels owned used to serve. The additional flexibility to the means and methods of conducting skimming operation or waterway debris collection would allow for opportunities to capture more marine debris as the contracts could utilize their existing resources such as barges, cranes, etc. In addition, an additional scope of work was included in the new skimming contract to explore and evaluate new technologies that could improve and innovate waterway debris management and support other boat needs for the City.

**Table 6: Debris Collected and Days of Skimming Vessel Operation**

| Date | Total Tons Removed | Cubic Yards Collected | Recyclable Collected (lbs.) | Days in Operation | Days on Schuylkill | Days on Delaware |
|---|---|---|---|---|---|---|
| July 2024 | 4.0 | 28.4 | 2447 | 22 | 11 | 11 |
| August 2024 | 4.2 | 26.4 | 3101 | 22 | 11 | 11 |
| September 2024 | 3.4 | 20.8 | 2671.5 | 19 | 9.5 | 9.5 |
| October 2024 | 3.2 | 27.6 | 2791.5 | 23 | 14.5 | 8.5 |
| November 2024 | 2.7 | 30.1 | 2057 | 19 | 11.5 | 7.5 |
| December 2024 | 0.9 | 7.9 | 531 | 8 | 4.5 | 2.4 |
| January 2025 | Skimming Operation Out of Service for Winter Season | | | | | |
| February 2025 | | | | | | |
| March 2025 | | | | | | |
| April 2025 | 4.2 | 38.8 | 2789 | 21 | 16 | 5 |
| May 2025 | 4.6 | 28.9 | 2409.5 | 20 | 15.5 | 4.5 |
| June 2025 | 4.4 | 32.9 | 2842 | 18 | 11.5 | 6.5 |
| **FY25 Total** | **34.9 Tons** | **265.2 cuyd** | **11.8 Tons** | **186** | **116** | **70** |

## II.F.4 Other Floatables Control Activities

Other activities conducted within the City are performed with the intention of managing waste and therefore would capture floatables. These initiatives provide integral components to ensure additional floatable and solids do not enter the city's waterways and surrounding areas. Some of these activities are described below.

### *One Philly, United City Citywide Cleaning Program*

The Office of Clean and Green Initiatives, in partnership with various city departments, quasi-governmental agencies, and nonprofits, launched the 2025 Summer One Philly, United City Citywide Cleaning Program. This is the second year and third iteration of the program which continues building on the momentum of the last two initiatives where over 140,000 quality-of-life services were completed across the city. Departments and agencies continued efforts to tackle persistent quality-of-life issues such as litter, illegal dumping, graffiti, abandoned vehicles, vacant lots, and nuisance properties. The program operated 13-week initiative from May 5 through August 1, 2025. From June 2024 to May 2025, the program has made a significant impact, cleaning 35,600+ blocks, clearing 11,000+ vacant lots, removing 2,000+ abandoned vehicles, addressing 4,500+ graffiti incidents and conducting 1,800+ alley cleanouts. This year, the Citywide Cleanup will join the movement to remove 25 billion pieces of litter across the country by America's 250th birthday on July 4, 2026, as part of the Greatest American Cleanup. The Greatest American Cleanup, led by Keep America Beautiful and Philly250, inspires environmental stewardship across the country, and engages local communities to channel that momentum into action on our streets, parks, and neighborhoods for a cleaner, greener and safer city.

### *Green Schools Program: Promoting Recycling and Sustainability*

The Green Schools Program administered by the Sanitation Department provides educational materials, activities, and resources that can be used to engage students and faculty in the conversation about sustainability and conservation. This program encourages collaboration between schools and their local communities, allowing for a greater impact on the environment. Green Schools Program also offers mentorship and financial support to help schools implement their sustainability initiatives and create a healthier and more sustainable future. During FY25, 29 Philadelphia schools were recognized for their outstanding work through the Green Schools Program, including student-led green projects and powerful panel discussions between student ambassadors and City leadership focused on sustainability. Schools from across the city—public, charter, independent, and parochial—were recognized for their creative and impactful contributions. Each participating school received a grant of up to $2,500, totaling $72,500 in funding. These grants supported hands-on projects such as school gardens, composting programs, recycling campaigns, and more—all designed to promote sustainability in both the classroom and the community.

### *Department of Sanitation*

Every year, the Department of Sanitation collects over 610,000 tons of trash and over 80,000 tons of recycling. In addition to mechanically cleaning 410,000 miles of streets.

### *Volunteer Water Adjacent Cleanups*

The City has embraced the value of supporting and conducting volunteer water adjacent land-based cleanups with local partners and communities in areas in Philadelphia and surrounding region. These volunteer cleanup events provide an opportunity to make a significant difference in a given area within

a few hours with the help of people willing to volunteer their time. The cleanup events also serve as opportunities to provide important information and public outreach about PWD's and the City's programs and how the volunteers' efforts are beneficial not only on an environmental/ecological standpoint but also helps promote social behavior changes. During FY25, PWD led 15 watershed cleanups, resulting in the removal of 66.4 ton of waste and debris from the environment.

### *United By Blue Cleanups*

PWD partners with United By Blue (UBB), a Philadelphia-based sustainable outdoor apparel company who conducts annual stream cleanups programs. Part of UBB business model includes the amiable mission: "For every product sold, United By Blue removes one pound of trash from oceans and waterways through company organized and hosted cleanups." PWD partners with UBB by recommending litter-prone locations that are adjacent to Philadelphia waterways, promoting and supporting volunteer based cleanup events hosted by UBB, and helping coordinate pick up of event collections by PWD, Philadelphia Parks and Recreation (PPR) or the Philadelphia Sanitation Department staff. Much of the work conducted by UBB are often in locations under the purview of PWD's floatables control and pollution prevention programs. Following a hiatus due to company restructuring, UBB resumed community cleanups in 2024, three (3) UBB cleanups were held in 2025, resulting in the removal of 27.5 tons of trash, litter and debris. Since 2016, UBB and PWD have collaborated on 42 cleanups, resulting in 963,177 lbs. of trash and litter being removed from City waterways and parks.

### *Schuylkill Scrub & Pick Up Pennsylvania*

The Schuylkill Scrub is a program that encourages and supports cleanup events throughout the entire Schuylkill watershed- from the headwaters in Schuylkill County down to its confluence with the Delaware River in Philadelphia every Spring since 2009. The Schuylkill Action Network coordinates the initiative, along with multiple partners, with a shared goal of cleaning as many miles of road, stream, and parkland in the Schuylkill watershed. Their efforts help prevent trash from making its way into Philadelphia's drinking water sources and keep the City's land and waters clean and litter-free. The Schuylkill Scrub is a part of the Pick Up Pennsylvania initiative coordinated by Keep PA Beautiful, which shares a common goal of working towards the larger goal of cleaning up and beautifying the entire state of Pennsylvania. Free cleanup supplies (trash bags, gloves, and vests) are provided through Keep PA Beautiful courtesy of PennDOT and PA DEP. In addition, in 2024 and 2025, registered events can have trash and debris disposed of for no cost to event organizers (dumpster drop-off fees or transportation to waste facility is not included) during the month of April because of a donation from the members and landfill owners of the Pennsylvania Waste Industries Association. Pick Up Pennsylvania program was very successful in 2024, resulting in:

- 5,518 cleanup events
- 77,367 Volunteers
- 2,767,300 Pounds of Materials Recycled
- 3,257,920 Pounds of Trash Disposed
- 6,518 Miles of Roads, Shorelines and Trails Cleaned
- 14,046 Trees, Shrubs, and Flowers Planted
- 46,726 Tires Properly Disposed

### *Tookany/Tacony-Frankford Trash Task Force*

PWD continues to support more targeted efforts to focus on litter and illegal dumping have been initiated in the corridors surrounding the Tacony Creek watershed. During FY25, TTF expanded its landcare and maintenance capacity, including the creation of a full-time workforce development

program committed to landcare and maintenance in Tacony Creek Park. In April 2025, TTF hired a new Director of Landscape and Maintenance to focus on the Tacony Creek and the care of its surrounding woodlands. This increase in staffing has allowed for significant, tangible improvements in the maintenance level within Tacony Creek Park. FY25 priorities included (1) a focus on illegal dumping, including both removal of dumping material, securing the park perimeter with a focus on dumping hotspots, expanded monitoring and enforcement of actions; (2) gateway and trail maintenance to ensure ease and quality of access to the park and creek; (3) Japanese knotweed management on the creek banks and reforestation through live staking; (4) expansion of workforce development partnership with City of Philadelphia and PowerCorps PHL.

During FY25, TTF hosted 18 volunteer clean-ups throughout the year with 455 participants for a total of 934 volunteer hours; removed a significant amount of illegally dumped tires in Tacony Creek Park, including a coordinated 5,000 tire removal at Adams Avenue in April 2025; removed all dumped vehicles in Tacony Creek Park, with new protocols for timely removal (within 3 days) of any new vehicles dumped within the park. Implemented interventions to prevent unauthorized vehicle access and illegal dumping at Adam's Avenue and at Whitaker Avenue including new fencing, repaired guardrail, and installation of boulders; workforce labor increased to 8,500 hours in support of Tacony Creek Park and removed over 150,000 pounds of dumped material from the park.

### *Riverfront North Partnership*

The Riverfront North Partnership (RFN) helps to maintain the riverfront trail and network of parks along the Delaware River that connects residents of urban neighborhoods to nature, offering recreational, community building, and environmental education activities. During FY25, RNP continued to host volunteer work days to address invasive removal, tree care and shoreline trash removal at Pennypack on the Delaware, Lardner's Point Park and the Frankford Boat Launch.

### *Philadelphia Department of Parks & Recreation illegal dumping initiatives*

The Philadelphia Department of Parks and Recreation (PPR) is tasked with protecting over 10,200 acres of public land and waterways, and managing hundreds of recreation, environmental, and cultural centers. Throughout this effort, PPR encounters illegal dumping or short dumping often and thus must devise solutions to prevent and minimize these unwelcome occurrences. In FY25, PPR continued to record the metric from dumping incidents cleanups resulting in PPR working on solutions to implement dumping prevention tactics including physical barriers and surveillance cameras to prevent or discourage illegal dumping.

### *Love Your Park*

Love Your Park is a collaboration between Fairmount Park Conservancy, PPR, and Philadelphia's Park Friends Network. The groups work together to support communities in active City neighborhood parks and watershed natural areas, with a focus on volunteering. Their flagship events are Love Your Park Week in May and the Love Your Park Fall Service Day in November, when thousands of volunteers support City parks. This year-round Neighborhood Park Stewardship program supports a network of 140 community-run park friends' groups, and our regular volunteer opportunities invite groups and individuals to get involved. These programs continued in 2025, resulting in numerous volunteer events and engaged thousands of volunteers. During these weeks, volunteers helped plant trees, weed and mulch over a thousand existing trees, removed several tons of trash from Philadelphia's parks and waterways, and collected thousands of bags of organic plant debris (like branches and leaves) for composting. Love Your Park continued implementing Love your Park Solo Cleanups, encouraging park

users to safely clean up trash and litter individually or with their families as they enjoy Philadelphia parks this year. Unfortunately, the 2024 and 2025 Love Your Park service events results were not available at the time of reporting.

### *Friends of the Wissahickon Cleanups*

The Wissahickon Creek is a treasure to many Philadelphians and visitors to the area, who are searching for an escape to nature, providing a stunning green space for hiking, biking, and fishing. Wissahickon Valley Park is a huge park that has over 1 million visits per year and is surrounded by busy roads on all sides. The downside of this fantastic accessibility is an accumulation of litter in the park. The Friends of the Wissahickon (FOW) continued to conduct park cleanups within the Wissahickon Valley Park during FY25 including volunteer service days, hosting Corporate & School Groups cleanup and its Wissahero Program, an individual stewardship initiative that was spurred during the early days of the covid-19 lockdown when this program was the only stewardship options that could be offered.

### *Tire Roundup Program*

The Tire Round-Up Program is a volunteer-driven partnership between the City, block captains and stakeholders that helps to get tires safely off city streets, sidewalks, parks, alleys, and riverbanks, all while raising funds for future community programming. The Tire Round-up program was developed in 1995 to keep illegally dumped tires from entering the waste stream. Tires that make their way into the landfill take approximately 50 to 80 years to decompose. Collecting and properly disposing of tires helps keep neighborhoods clean, removes unsightly and potentially hazardous material, protects the public health and natural environment. To enroll into this program, block captains and community groups must register with the Philadelphia More Beautiful Committee (PMBC), and while program occurs typically in the summer months, PMBC will reimburses registered groups 50 cents for each illegally discarded tire they bring to a drop-off site. Tire Round-Up Program took place occurred again this year during the months of July and August 2025, results of this year's program are still being tabulated.

### *Philadelphia Hazardous Waste & Special Waste Collection Events*

During FY25, the Sanitation Department continued to offer seven (7) HHW events. For the times and locations of these events, please refer to the MS4 Annual Report **Table 14 - FY25 Household Hazardous Waste Collection Events**. For more information on the hazardous waste program please visit: https://www.phila.gov/services/trash-recycling-city-upkeep/dispose-of-household-hazardous-waste/.

### *Community Life Improvement Program (CLIP)*

The Community Life Improvement Program (CLIP) helps Philadelphians make the City a nicer place to live. CLIP partners with residents, community groups, businesses, other city departments, and agencies to improve the quality of life in our neighborhoods. During FY25, CLIP continued to implement its mission, providing service that included:

- removing graffiti vandalism from buildings, street signs, and other street fixtures.
- enforcing the City's regulations to make sure vacant lots and areas are kept clean,
- Lending supplies and offer trash pickup for CLIP-coordinated neighborhood cleanups,
- providing adult non-violent offenders the opportunity to complete their community service sentences by cleaning and beautifying the city.

### *The Plastic Bag Ban*

Philadelphians use about a billion plastic bags each year. Unless properly disposed of, many of these bags become litter in our streets, waterways, and commercial corridors. The City's the ordinance on single-use plastic bags, originally passed by City Council in December 2019, although due to impacts of COVID-19, the implementation was delayed to beginning July 1, 2021. Philadelphia's plastic bag ban prohibits retail establishments from providing single-use plastic bags and paper bags that do not meet certain requirements. The City issues violation notices for businesses using non-compliant bags. These notices carry a minimum penalty of $150. Each violation of the ordinance is subject to a separate fine. If businesses repeatedly or egregiously violate the ordinance, the City may take them to court and ask the judge to impose additional penalties. Through 2025, City continues to enforce the ban, the ban helped to reduce single-use plastic waste and improve the environmental quality and cleanliness of our city. The City has observed a measurable decrease in plastic bag use in the city.

### *Circular Free Property Program*

The city has provided property owners and tenants may register their property to request a circular free property decal that will notify to advertisers to not leave circulars, handbills, and other advertising on the registered property. This program would prevent individuals/businesses from leaving unwanted circulars and ads on their property. There is no fee for this service, but applicants must 1) complete a Circular Non-Delivery Decal request form, 2) wait to receive the decal in the mail and 3) affix the decal where it can be seen from the street. In addition, individual businesses can be reported to the Department of Licenses and Inspections (L&I) if property continues to receive circulars, as violators will issue a code violation for $150. The Circular-Free Property Program continued to be implemented in FY25, the number of applicants requesting the decal this year or the total number of properties registered were not available at the time of reporting. More information on the Circular-Free Property Program can be found here: https://www.phila.gov/services/property-lots-housing/request-a-no-circulars-sticker/

### *Repair, Rehabilitation, and Expansion of Outfall Debris Grills and Grit Cleanings*

Debris grills are maintained regularly at sites where the tide introduces large floating debris into the outfall conduit. This debris can become lodged in a tide gate, causing inflow from the receiving water. Additionally, debris grills provide entry restriction and some degree of floatables control.

Standard operating procedures require the inspection of debris during all regulator inspections unless the outfall is submerged at the time of inspection. During FY25, 129 debris grill maintenance events were completed. The list of the debris grill preventative maintenance activities is available in **Appendix C – FY25 CSO Maintenance Program Annual Report.**

### *Repair, Rehabilitation, and Expansion of Outfall Debris Grills and Grit Cleanings*

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## II.G NMC 7 - Pollution Prevention

### II.G.1 Continue to Develop and Share a Variety of Public Information Materials Concerning the CSO LTCP

The Public Outreach and Participation conducted in FY24 for the Green City, Clean Waters program has been provided in **Section 7.0 - Public Outreach and Participation** starting on page 28 **of Appendix A – Green City, Clean Waters FY24 Annual Report** and **Section II.G.3 Continue to Provide Annual Information to City Residents about Programs via Traditional PWD Publications** on page 31 of this report.

### II.G.2 Continue to Maintain Watershed Management and Source Water Protection Partnership Websites

In May 2018, PWD incorporated watershed protection projects and program information onto the City of Philadelphia's official website at https://water.phila.gov/sustainability/watershed-protection/. This provides an additional channel for PWD customers and the public to learn about watershed protection initiatives. The website contains key plans and reports as well as detailed information on watershed partnerships, planning, public communication, and technology-based planning and assessment tools.

#### *Philly RiverCast*

Philly RiverCast (http://www.phillyrivercast.org) is the first operable web-based recreational warning system in the United States. Using near real-time flow, precipitation, and turbidity data, the RiverCast algorithm translates predicted bacteria levels in the non-tidal Schuylkill River from Boathouse Row to Flatrock Dam in Manayunk into one of three ratings, each of which corresponds to suggested guidelines for safe recreation. RiverCast guidelines offer tools for the public to make informed decisions about recreation, and thus helps protect the public against illnesses caused by bacteria. In 2022, PWD launched a revamped version of the website to modernize its appearance and enhance public comprehension. PWD continues to assist individuals and recreational groups in interpreting RiverCast ratings. In 2019, PWD analyzed the data communicated by RiverCast as it compared to laboratory-tested data from PWD routine sampling. This analysis showed that RiverCast continues to protect public health by providing accurate characterizations of ambient bacteria conditions in the river. Ultimately, RiverCast helps ensure continued safe recreational use of the non-tidal Schuylkill River, while promoting public awareness of water quality concerns and indirectly engaging support for source water protection measures. More than 1.6 million users have visited the Philly RiverCast website since it launched in June 2005.

#### *Schuylkill Action Network*

The Schuylkill Action Network (SAN) was established as a permanent watershed-wide organization charged with identifying problems, prioritizing projects, and securing funding sources to bring about water quality improvements in the Schuylkill River watershed. The SAN is organized into six focused workgroups. One of the workgroups, the SAN stormwater workgroup, was formed to identify a cost-effective approach to stormwater management through project prioritization and planning. The workgroup is a partnership of representatives from PWD, PADEP, EPA, DRBC, conservation districts, watershed organizations, municipalities, and other water utilities and groups throughout the Schuylkill River watershed. The SAN website supports the SAN's stormwater workgroup by providing project and event information, SAN publications, and public messaging about restoring and protecting the Schuylkill River. The SAN stormwater workgroup's goal is to prevent or maximize reduction of stormwater runoff

pollution. During its more than 20 years of existence, the workgroup has served as an advisory committee for state and local governments, an ordinance review board for municipalities, and a support group for large and small projects throughout the Schuylkill River watershed. During the last year, SAN projects have addressed important pollution sources including agriculture, abandoned mine drainage, and stormwater. Efforts from SAN partners in the last calendar year are included in the following table (**Table 7**):

**Table 7: Schuylkill Action Network Partner Progress**

| | Cumulative Progress of Watershed Partners (2003-2023) | Highlights from CY 2024 |
|---|---|---|
| Agriculture Workgroup | • Constructed over 195 manure storage facilities<br>• Completed over 200 barnyard or heavy use area construction<br>• Installed over 95 stream crossings<br>• Planted over 700 acres of riparian buffers of agricultural lands<br>• Over 10,000 acres of agricultural lands have best management practices | • 9 waste storage structures<br>• 3.6 acres of riparian buffers<br>• 72 acres of prescribed grazing<br>• 9 barnyard heavy use areas protected<br>• 4 stream crossings installed<br>• 1,366 acres of nutrient management<br>• 8 farms (651.3 acres) preserved by Berks County Land Preservation |
| Abandoned Mine Drainage (AMD) Workgroup | • Received over $17M in AMD funding<br>• Reduced annual watershed loadings of iron, aluminum, and manganese<br>• Installed, monitored, and maintained five treatment systems | • Actively maintaining 5 AMD treatment systems<br>• Toured the Lehigh Anthracite Coal's only surface mine<br>• 10th annual Schuylkill Acts & Impacts 6-day watershed expedition hosted 12 students from all 5 counties<br>• SAN member was awarded Section 319 NPS grant in the amount of $70,600 for the Kaska Mine Discharges Treatment System Design Project |
| Stormwater Workgroup | • Engaged over 30 schools in green stormwater infrastructure<br>• SAN has hosted presentations, workshops, and tours for businesses, municipalities, and other professionals | • The Stormwater Workgroup showcased local research on GSI Implementation by Dr. Virginia Smith of Villanova's College of Engineering to an audience of 27 partners.<br>• 12 SAN members attended a tour of Wissahickon Trails' newly renovated, flood resilient, office space and shared partner updates around the watershed.<br>• The stormwater workgroup collaborated with the Pathogens and Point Source Workgroup to coordinate the Walk & Talk along the Manayunk Canal and Schuylkill River. |

| | Cumulative Progress of Watershed Partners (2003-2023) | Highlights from CY 2024 |
|---|---|---|
| Pathogens & Point Source Workgroup | • SAN has promoted drug takeback events and the Delaware Valley Early Warning System.<br>• SAN has hosted tech transfer presentations and water utility forums for water and wastewater professionals to connect with resources and funding | • In collaboration with the stormwater workgroup, the Pathogens and Point Source Workgroup held a Walk & Talk along the Manayunk Canal and Schuylkill River. The group learned about the Philadelphia Water Department's ongoing infrastructure rehabilitation efforts to improve water quality, with highlights including green stormwater infrastructure (GSI) at the Venice Island Performing Arts Center, the Flat Rock Dam rehabilitation project, and the Freshwater Mussel Reintroduction Pilot Study.<br>• SAN hosted the 2024 Water Utility Forum as an in-person event for 29 attendees on September 24 at Albright College in Reading, PA. The event discussed success stories around our area and highlighted funding opportunities for water utilities. |
| Engagement & Stewardship Workgroup | • Unites environmental education, outreach, recreation, stewardship, and volunteerism in the Schuylkill River Watershed<br>• Coordinates yearly Schuylkill Scrub, a watershed-wide clean up initiative that takes place every spring | • The Engagement and Stewardship Workgroup hosted Multicultural Communications Training for 33 attendees.<br>• 11 environmental professionals attended a training course and learned to lead the Watershed Game created by Minnesota SeaGrant. The Watershed Game is an interactive tool that teaches the impact of land use on water quality.<br>• SAN sponsored a Schuylkill Sojourn Steward for a social media takeover highlighting the theme of the "Our Living River".<br>• The 2024 Schuylkill Scrub was conducted in collaboration with Upper Montgomery County and Conshohocken brewing company, hosted 49 volunteers. The cleanup removed 1.8 tons of trash and 8 tires from three miles of roadways. |
| Schuylkill River Restoration Fund | Since its inception in 2006, the SRRF has awarded over $6M for over 150 projects that have helped restore the Schuylkill Watershed, as well as leveraged over $5M in other funding sources. | In 2025, the SRRF awarded $451,515 to 8 projects in the Schuylkill Watershed. |

Since its inception, the SAN has grown to include nearly 350 organizational and individual partners working together to protect the Schuylkill River watershed. To communicate the accomplishments of the SAN Stormwater workgroup to stakeholders as well as other SAN workgroups, the SAN routinely updates their website, http://www.schuylkillwaters.org, with input from PWD, the SAN Planning Committee, and other SAN workgroups. The website was redesigned in 2025 and includes an internal component that allows for improved communication among SAN workgroup members and facilitates on-the-groundwork. The SAN website, together with https://water.phila.gov/, provide data and reports from the source water assessments for the Schuylkill River.

### *Delaware Valley Early Warning System*

The Delaware Valley Early Warning System (EWS) is an integrated monitoring, notification, and communication system designed to provide advanced warning of surface water contamination events to subscribing water suppliers, industrial surface water users and partner government agencies in the Schuylkill and Lower Delaware River Watersheds. The Delaware Valley EWS covers the entire length of the Schuylkill River as well as the Delaware River from the Delaware Water Gap to just below Wilmington, Delaware.

The EWS incorporates a monitoring network of nearly 90 online water quality data stations throughout the watershed. Real-time and historic flow data are applied to a time of travel model that generates a range of estimated arrival times for each intake in the system. This time of travel model is also incorporated into a spill simulation tool that can be used for planning and training purposes.

When a responding agency reports a water quality event via the EWS website or telephone hotline, the entire user base is notified almost instantaneously via email. In the case of a high-risk event, supplemental phone notifications are placed using CodeRed technology, allowing all users to receive an automated telephone notification in less than three minutes. EWS users can log in to the secure website to view additional event details, spill routing, and predicted arrival times to their intakes. Additionally, a sophisticated tidal modeling component has been developed to better predict and communicate the arrival times of spills on the tidal Delaware River with a user-friendly spill trajectory animation. The EWS received the Governor's Award for Environmental Excellence and is nationally recognized for its use of stakeholder partnerships to meet regional source water protection objectives. In 2016, the EWS was featured as a case study in EPA's publication Online Source Water Quality Monitoring: For Water Quality Surveillance and Response Systems.

In the last couple of years, PWD implemented significant updates to the EWS user interface. Notable updates include full mobile device (smartphone) functionality for the EWS web site, improved mapping and notification features and a new website feature, the Flooding Forecast Viewer (FFV). These updates were presented to EWS users through a series of regional trainings and webinars.

### *Other PWD Related Websites and Social Media*

PWD Main Web Site
water.phila.gov

The official website for the Philadelphia Water Department (PWD) contains comprehensive information about stormwater management for our customers. Resources span from the CSO LTCPU to plain language statements to help the average customer understand the importance of stormwater management.

The pages at water.phila.gov/stormwater received 6,465 pageviews from 4,015 unique users in FY25. The Stormwater Grants page is geared to non-residential property owners interested in receiving grants to construct stormwater retrofit projects. The Stormwater Grants web page received 3,390 pageviews in FY25.

PWD Parcel Viewer and Stormwater Billing online:
https://stormwater.phila.gov/

The stormwater.phila.gov microsite plays an important role in showing users how their stormwater bill is calculated, how to apply for credits, or how to make appeals. The "parcel viewer" map application is the core of the site. Here, customers can search for a specific parcel or freely explore the map. When a parcel is clicked, data such as gross area, impervious area, and the monthly stormwater charge breakdown, are displayed. Users are encouraged to take actionable steps to reduce the amount of stormwater entering the sewer system and lower their stormwater bills. There were 37,456 pageviews from 1,652 unique users in FY25.

In June 2022, PWD launched Stormwater Connect - an online tool designed to link green stormwater vendors with non-residential property owners. Vendors and property owners sign up to share their specifications, specialties, and interests. Once vendors complete a profile, they can start searching potential projects that align with their expertise. When a property owner signs up, they will find a list of vendors that match their needs using filters, such as experience building GSI. Vendors they're interested in are notified. From there, vendors can request a direct follow-up. Once connected, they can confirm what is possible on the non-residential site and a Stormwater Grant team partnership can be formed. Then, the team applies for a grant, which can cover up to 100% of design and construction costs. There were 2,627 pageviews from 1,652 unique users in FY25.

### *Phillywatersheds.org*

Watershed information was also housed on Phillywatersheds.org; however, PWD began archiving this site on September 1st, 2019. This content continues to be migrated to www.phila.gov/water and https://water.phila.gov. Phillywatersheds.org will remain an archived site that redirects to new locations until all content is moved or decommissioned. More information about content available on the site is discussed below but notice that some content may no longer be housed on phillywatersheds.org, and no new content is being added.

In spring of 2021, PWD launched Green City, Clean Waters' official new landing page: water.phila.gov/green-city, replacing the decommissioned phillywatersheds.org and the official destination for Green City, Clean Waters on the web. The page received 12,723 pageviews from 7,959 unique users in FY25.

### Development Review Program Website

https://www.pwdplanreview.org/

Since its deployment in FY16, the use of this site has grown and continues to be one of the most used City websites, a testament to its effectiveness in helping developers to meet Philadelphia's stormwater regulations. There were 123,826 views sitewide on the site during FY25.

For more information on the activities conducted by the Development Review Program please refer to the MS4 Annual Report **Section F.5 – Monitor and Control Stormwater from Construction Activities** on page 21.

### PWD Department on Social Media

Social media is an essential tool for engaging communities in the development of stormwater infrastructure projects and best practices. These platforms are an important tool for disseminating

departmental messaging about stormwater management, pollution prevention, and programs that improve the city's water resources. Social media is also an accessible tool for building and strengthening relationships with partner organizations and community groups.

The sections below describe the City's social media:

### *@PhillyH2O Blog*

The @PhillyH2O Blog (water.phila.gov/blog/) launched in 2018 as a mobile-friendly "rolling collection of stories, tips, and news powered by the people of the Philadelphia Water Department."

The blog is part of a customer priority-focused digital strategy and provides quick access to information residents served by the department can use. The site often acts as a streamlined showcase of messaging campaigns that are amplified by press releases, social media, direct mail, and email.

Posts promote a wide variety of topics, including how to use the Basement Protection Program, which provides free plumbing improvements for those impacted by combined sewer overflows; community input meetings for GSI construction sites and other projects; updates about the progress of *Green City, Clean Waters*, and highlights of current programs and events and relevant partner initiatives. There was a total of 10 posts during FY25. In FY25, the blog received over 2,708 page views.

During FY25, the most viewed blog, "Oh, DAM! The Manayunk Canal is getting ready to reopen," published in December of 2024, received nearly 2,500 views. The blog explores the anticipated re-opening of Flat Rock Dam and the reintroduction of fresh flowing water to the Manayunk Canal.

### *PWD Customer Contact List*

The PWD subscribers' contact list is a distribution list of email addresses. Subscribers to the PWD lists sign up to receive PWD updates on several GovDelivery topics.

Subscriber totals at the end of FY25

- Customer Assistance Programs – 24,465
- Events – 7,398
- Alerts & Notifications – 19,636
- Water Quality Updates – 8,642
- Water Revitalization Plan: 4,059
- Employment – 17,028
- PWD General News – 18,211
- Philadelphia Press - 2,408

Subscribers in these topics are added through online sign-up builders and collected at public events and meetings hosted by PWD.

Correspondence includes standard communication about various PWD programs and services, targeted communications about localized updates, such as planned infrastructure work in their neighborhood or ZIP code or other best practice information, and critical updates for PWD customers.

Metrics goals are based on a 2024 Digital Communications Benchmark Report created by Granicus – a digital civic engagement company for governmental use. PWD's GovDelivery system is a product of Granicus.

PWD Public Affairs uses the following industry benchmarks:

- Public Works & Utilities: median open rate of 33% and a median click rate of 6%, and
- Water & Sanitation: median open rate of 35% and a median click rate of 5%.

During FY 2025, 11,158 bulletins were delivered to 3,464,312 email recipients and 215,691 SMS recipients. This is a total of 3,680,003 recipients. The average unique email open rate is 43.6% and the average unique email click rate is 3.7%.

### *KUBRA E-billing*

The Philadelphia Water Revenue Bureau maintains a list of e-billing subscribers. Subscribers can manage their account online and receive bill information via email. There were 242,326 e-billing subscribers at the end of FY25. 26,952 subscribers joined the e-billing topic during FY25. PWD often interacts with and/or sends GovDelivery email bulletins to subscribers throughout the year.

### *Facebook*

The Philadelphia Water Department has a Facebook page located at http://www.facebook.com/PhillyH2O

The Fairmount Water Works (FWW) also maintains a Facebook page that extends the reach of departmental messaging. The page can be accessed at https://www.facebook.com/FairmountWW/

- PWD page had 6,300 followers at the end of FY25.
- Fairmount Water Works page had approximately 3,000 followers at the end of FY25.

### *X, formerly known as Twitter*

X is a valuable communications channel for resolving customer complaints, providing customer information, and delivering news concerning the department, education, and water in general. The Department also builds connections with national and international peer cities and other stakeholders in the stormwater management field through Twitter. By the end of FY25, the Philadelphia Water Department X account, @PhillyH2O, had approximately 13,500 followers.

### *Instagram*

The Philadelphia Water Department maintains an Instagram account, @PhillyH2O, to share visual information and resources around its services. At the end of FY25, the Instagram account had 8,255 followers.

### *Nextdoor*

Philadelphia Water Department maintains a NextDoor account. At the end of FY 25, the account had approximately 316,900 members representing Department customers neighborhoods across the city. The platform has proved a valuable tool for hyper-local outreach. Posts containing detailed information about construction projects supporting the LTCPU are made available to communities directly impacted.

### *LinkedIn*

The Philadelphia Water Department LinkedIn account had a total of more than 8,000 followers at the end of FY25. The Department continued to share both employment-based posts and general information pertaining to the utility and its services.

### *PWD Department Videos*

PWD hosts videos on Vimeo, YouTube, and all social media platforms. Video content provides information about topics including:

- Why infrastructure investment is needed to reduce sewer overflows
- How green and traditional infrastructure protects waterways
- Careers building and maintaining infrastructure, and more.

PWD video content includes animation. While some content is highly produced with support from contracted professionals, videos produced in-house by Public Affairs staff also play an important role in communicating with residents. Videos not shared on social media can be accessed at the following links:

- http://www.vimeo.com/phillywatersheds
- http://www.youtube.com/pwdepartment

During FY25, there were approximately 4,055 video views on PWD's Vimeo page.

## II.G.3 Continue to Provide Annual Information to City Residents about Programs via Traditional PWD Publications

The PWD develops numerous publications for the public that are distributed throughout the city at advisory committee meetings, public meetings, and other public events, in addition to being distributed through the water/sewer/stormwater bill to PWD customers. The following publications, meetings and events have been shared with and/or involved the public during FY25:

### *FY 25 Media Advisories and Press Releases*

#### 2024

- Media Alert: Water Department Annual Customer Survey Now Open (July 9, 2024)
- Media Alert: New Phila. Tap Water Quality Report Available (July 23, 2024)
- Media Alert: Free Family Fishing Contest at Schuylkill Banks Sept. 7! (August 28, 2024)
- Press Release: Phila. Water Dept. Highlights Conservation Tips Under Drought Watch (November 1, 2024)

#### 2025

- Press Release: Phila. Water Dept. Requests Necessary Rate Increase (February 25, 2025)
- Media Alert: Water Dept. Hosting Open House and Jobs Fair This Saturday (June 2, 2025)
- Media Alert: Manayunk Canal Cleanup Tomorrow (June 13, 2025)
- Media Alert: Water Dept. Celebrates Reopening of Historic Flat Rock Dam (June 24, 2025)
- Press Release: Water Department Celebrates Flat Rock Dam Ribbon Cutting Today (June 26, 2025)

*Publications*

Annual Consumer Confidence Report of 2024 Water Quality Data, which can be found here: https://water.phila.gov/drops/2024-drinking-water-quality-report/

*Bill stuffers - Print and Digital*

- Delaware River Festival – August 2024
- Rates Increase – September 2024

*Waterway Arts Initiative and the Water Shed*

The Water Shed, part of the Waterway Arts Initiative, is a community-based hub in Germantown offering water-related resources and free educational programs. Opened in November 2024, the Water Shed empowers environmental resilience in Germantown through community-driven art, resources, education, and science. The Water Shed is located at 5300 Wayne Ave, Philadelphia, PA 19144.

The new space is part of the Waterway Arts Initiative. This project, which launched in 2024, is an ongoing partnership between the Philadelphia Water Department, the Academy of Natural Sciences of Drexel University, and Mural Arts Philadelphia seeking to foster environmental discourse, empower community resilience, and share information and resources about critical flooding issues facing the Germantown community.

With a central focus on community engagement, the initiative brings together an alliance of residents, artists, and scientists to investigate flooding in Germantown, utilizing multidisciplinary research, community science, and creative storytelling.

The coalition includes Germantown residents, local artists, and Academy scientists. Each member brings a critical perspective to the project, from data science and installation art to firsthand experience with flooding in the neighborhood. Learn more: water.phila.gov/drops/waterway-arts-initiative-germantown

## II.G.4 Continue to Support the Fairmount Water Works Interpretive Center

In FY25, the Fairmount Water Works Interpretive Center (FWWIC) and partners engaged just over 21,000 individuals through environmental education and outreach events that featured urban waters themed educational materials and/or *Green City, Clean Waters* content. FWWIC and its educators offered programming on-site, in the field, in the classroom, and on the water. They worked with a diverse array of partners, including the Alliance for Watershed Education on the Delaware River (AWE), Tookany / Tacony-Frankford Watershed Partnership (TTFWP), the Partnership for the Delaware Estuary (PDE), the Schuylkill River Development Corporation (SRDC), Philadelphia Parks & Recreation (PPR), and the School District of Philadelphia (SDoP), and more.

Visitor engagement consisted of organized exterior tours for adults, families and children, ongoing activities with school groups and summer camps, in-classroom presentations on urban watershed issues, treatment plant processes, FWW history, and some well-received (by both the media and public) art exhibitions: Trash Art (with PDE), running Aug 2024 - April 2025; Confluence, curated by Thom Duffy Fine Arts (running April – July 2025); and Naked Stark Modern Dance spring/summer 2025 performances.

### *Understanding the Urban Watershed* Curriculum

FWWIC continues to deploy *Understanding the Urban Watershed (UUW)* Curriculum to both teachers and students across Philadelphia. *Understanding the Urban Watershed* is a series of cross-disciplinary Units for upper elementary, middle, and high school grade levels with multiple Learning Experiences in each Unit that are accessible online (linked here). The website provides pre-made instructional materials, resources, videos, and differentiated learning opportunities. Teachers are encouraged to provide engaging student outdoor field experiences (Meaningful Watershed Educational Experiences, or MWEEs) and hands-on exploration to complement classroom instruction. Outreach efforts also included encouraging teachers and students to participate in the *Understanding the Urban Watershed (UUW)* middle years.

*Understanding the Urban Watershed* is aligned with both the School District of Philadelphia's core content and the new PA Academic Standards or STEELS (Science, Engineering, Environmental Literacy and Sustainability, linked here) with a focus on the Environmental Literacy and Sustainability Standards in particular. Development and implementation of the curriculum has been a collaborative effort with the District Offices of Curriculum, Instruction and Assessment, and Environmental Management & Services. Part of this is a one-week Summer Professional Development Training Institute for Teachers, supported by the School District. The curriculum is an exemplar for goals and targets as outlined in the District's Sustainability Plan, GreenFutures, and is easily embedded into core standards and performance indicators as assessed using performance criteria.

The UUW Curriculum offers students, teachers[1], schools[2], and the community active learning experiences about the value of water, water systems, and civic action and responsibility. It connects students to Philadelphia and the role they play on their block, in their school, and throughout their city, with a goal to achieve positive local and global impacts through experiential watershed education, and to transform users into stewards and advocates for our shared water resources. As a result of this strategic desire to work across all grade bands, the Curriculum reached 5,658 students throughout the school year through daily or weekly classes, as seen in the table below.

**Table 8: FY25 FWWIC Educational Engagement Metrics**

| FWWIC Event Classification | Total(s) |
|---|---|
| General FWWIC Visitors | 2,990 |
| School Groups, Camps & Rec Centers | 7,805 |
| Understanding the Urban Watershed (UUW) - Student Tally | 5,658 |
| UUW - Teacher Tally | 26 |
| Special Events | 555 |
| Miscellaneous Educational, Tours & Outreach Efforts | 1,006 |
| **FWWIC Engagement Total:** | **18,040** |

*A shift in strategic priorities led to an increase in school students engaged and community outreach.*



[1] Number of teachers in 2024-25: 26 total (8 Elementary, 16 Middle School, 2 HS).
[2] Number of schools: 20 (5 Elementary, 13 Middle, 2 HS).

## II.H NMC 8 - Public Notification to Ensure that the Public Receives Adequate Notification of CSO Occurrences and CSO Impacts

PWD has developed and will continue to enhance a series of informational brochures and other materials about its CSO discharges and the potential effects these discharges have on the receiving waters. In addition, PWD has enlisted watershed organizations and partnerships to assist in this endeavor to raise the level of citizen awareness about the function of CSO and stormwater outfalls through a variety of educational mediums.

### II.H.1 Launch a Proactive Public Notification Program Using Numerous Media Sources

PWD is advancing a proactive public notification program that uses print, internet, outfall signage, and other media to distribute information on the locations of CSOs, information on hazards, and potential public actions.

#### *CSO Outfall Signage*

In summer 2007, PWD initiated a pilot project to install 13 informative signs at CSO outfalls throughout the city. During a follow-up survey in October 2007, it was found that 5 of the 13 signs had been either removed or vandalized. Currently each CSO outfall location, except for 8 inaccessible locations, has an identification sign installed which helps the public to accurately identify an outfall when reporting a problem.

#### *Other Notification Measures*

PWD continues to develop informational materials and maintain websites to educate the public about its CSO discharges and the potential effect on receiving waters. PWD has found that one of the best ways for public notification of CSOs is through the traditional public outreach programs described in NMC7: Pollution Prevention Program, please refer **Section II.G – NMC 7- Pollution Prevention** on page 24.

### II.H.2 Expand the Internet-Based Notification System (RiverCast) to the Tidal Section of the Lower Schuylkill River

In order to expand the web-based water quality forecasting system for the Schuylkill River, RiverCast, PWD developed another internet-based notification system called CSOcast in 2008, which reports on the overflow status of outfalls in every CSO shed.

The website is built using the Google Maps API which allows for the dynamic loading of geographically referenced data that can be viewed with a familiar and user-friendly interface. The map is available 24 hours a day and displays the most up-to-date data available. PWD is constantly updating and improving the notification system as well as the flow monitoring network to deliver the best information possible to the public. During FY25, CSOcast had a total of 4,581 pageviews. The CSOcast notification system can be accessed through: https://water.phila.gov/maps/csocast/

## II.I NMC 9 - Monitoring to Effectively Characterize CSO Impacts and the Efficacy of CSO Controls

### II.I.1 Report on the Status and Effectiveness of Each of the NMCs in the Annual CSO Status Report

The Combined Sewer Management Program Annual Report, combined with the Stormwater Management Program Annual Report, will be submitted in September of each year, documenting the previous fiscal year activities.

# III. Implementation of the LTCP

**Table 9: Summary of 1997 CSO LTCP Capital Projects**

| Project | Status |
|---|---|
| *Real Time Control (RTC) Program* | |
| RTC - Main Relief Sewer Storage (R-7 through R-12) | Complete |
| RTC - Tacony Creek Park Storage (T-14) | Complete |
| RTC - Rock Run Relief Sewer Storage (R-15) | Complete |
| Establish RTC Center | Complete |
| RTC & Flow Optimization (Southwest Main Gravity Interceptor, Cobbs Creek Cut-Off, and Lower Schuylkill West Side) | Complete |
| Targeted Infiltration/Inflow Reduction Programs | On-Going |
| Solids & Floatables Control Program | On-Going |
| 85% CSO Capture Pennypack Watershed (P1 through P5) | Complete |
| Eliminate Outfalls: Dobson's Run Phase I | Complete |
| Eliminate Outfalls: Dobson's Run Phase II & III | Complete |
| Eliminate Main & Shurs Overflow (R-20) | Complete |
| Eliminate 32nd & Thompson Outfall (R-19) | Complete |
| *Collection System Improvements* | |
| Upgrade Frankford Siphon | Complete |
| Somerset Interceptor Sewer Conveyance Improvements | Complete |
| Cobbs Creek Low Level Conveyance Improvements | Complete |
| Cobbs Creek Low Level Control Project | Complete |
| Water Pollution Control Plant (WPCP) Wet Weather Treatment Maximization Program | Complete |

## III.A CSO LTCP Update

The full Philadelphia Combined Sewer Overflow LTCPU report can be found at the following address: https://water.phila.gov/green-city/.

Please refer to **Appendix A – Green City, Clean Waters FY25 Annual Report** for an update on the LTCPU implementation progress.

## III.B Capital Improvement Projects

Please see **Table 10** – Status updates for 1997 LTCP Capital Improvement Projects on page 36.

**Table 10: Status updates for 1997 LTCP Capital Improvement Projects**

| Project | Status | Update / Reference |
|---|---|---|
| Completion and Operation of the Real-time Control Center and Rehabilitate and Maintain the Monitoring Network | Completed in 2003 | For details on maintenance of monitoring network please refer to Appendix C – FY24 Program Maintenance Annual Report. |
| WPCP Wet Weather Treatment Maximization (NE) | Evaluated and implemented options from the Jan. 2000 Stress Testing Report | Refer to Section III.B.1.2 WPCP Wet Weather Treatment Maximization (NE) on page 66 of the CSO-Stormwater FY12 Annual Report |
| Evaluate Stress Test Report Options in the LTCPU | Completed March 2009 (all three WPCPs) | Refer to Section III.B.1.2.1 Evaluate Stress Test Report Options in the LTCPU on page 69 of the CSO-Stormwater FY12 Annual Report |
| Implement Options 1, 2, and 4 from the Stress Test Report (NE) | Completed January 2006 | Refer to Section III.B.1.3.2 Implement Options 1, 2, and 4 from the Stress Test Report on page 91 in the CSO-Stormwater FY10 Annual Report. |
| Plan, Design, and Construct Options 5 & 7 of the Stress Test Report to Increase the Secondary Plant Capacity to 435 MGD | Completed February and August 2012 | Refer to Section III.B.1.2.3 Plan, Design, and Construct Options 2 & 6 from the Stress Test Report on page 70 in the CSO-Stormwater FY 2012 Annual Report. |
| Explore increasing the preliminary treatment, primary treatment, and final effluent disinfection treatment capacities in excess of the existing secondary treatment capacity at the NE WPCP | Plan was originally submitted to the PADEP on June 1, 2013. The NE Facility Concept Plan (FCP) was revised based on comments from PADEP and re-submitted on December 31, 2013. | PWD operates three Water Pollution Control Plants (WPCPs): the Northeast, Southwest, and Southeast WPCP. The Wet Weather Facility Plan (WWFP), which was submitted on June 1, 2016, provides details on scheduling, cost, and anticipated construction completion for each project. The WWFP is available at the following link: http://water.phila.gov/pool/Wet_Weather_Facility_Plan_website.pdf |
| Initiate the Facility Planning and Design for the By-pass Conduit | PADEP approved on April 1, 2009, the bypass of secondary treatment for 100 MGD of additional wet weather flow at NE WPCP | As described in the LTCPU, PWD committed to the expansion of the NE WPCP to include a 215 million gallon/day secondary treatment bypass. PWD proceeded with a design and the bypass of the plant secondary processes for total plant flows that exceed 435 MGD is currently under construction. Project renamed as NEWPCP High Flow Management System. |
| Report to the DEP the Status of these Projects in the Annual Status Reports when Major Work Elements Are Completed | As Necessary | The CSO Annual Report continues to include information in the WPCP wet weather treatment maximization at the NE WPCP |
| 85% Capture (NE) - 85% Flow Capture Technical Report | August 2008 | Refer to Section III.B.1.3 85% Capture (NE) on page 71 of the CSO-Stormwater FY 2012 Annual Report. |
| In-Line System Storage Projects (NE) | N/A | Reported on in Section II.B.5 Operate and Maintain In-line Collection Storage System Projects Contained Within the LTCP of this report, starting on page 11. |

| Project | Status | Update / Reference |
|---|---|---|
| Implementation of the Southwest Plant Stress Test Report Option 1 | Option 1, to inspect and repair leaking weirs and concrete surfaces in the final sedimentation tanks at the Southwest Plant, was completed in April of 2002 | Option 1 and other improvements were also discussed in further detail within the Facility Concept Plan for the Southwest Water Pollution Control Plant that was submitted to the PADEP on June 1, 2013. This plan is available on-line through the following website: https://water.phila.gov/pool/files/SW-Facility-Concept-Plan-Final_FINAL.pdf |
| Real Time Control (RTC) and Flow Optimization for the Southwest Drainage (SW) - Implementation of Projects for Real Time Control (RTC) and Flow Optimization for the Southwest Drainage District | Completed April 2010 | Refer to Section III.B.1.8 Real Time Control and Flow Optimization for the Southwest Drainage on page 74 of the CSO-Stormwater FY12 Annual Report. |
| RTC/Main Relief Sewer Storage (SW) - Construction and Implementation of Main Relief Sewer Storage and Real-time Control | Please see Section II.B.5 Main Relief on page 11 of this report for status | Refer to Section II.B.5 Main Relief on page 11 of this report |
| Eliminate CSO/Dobson Run Project (SW) - Construction and Implementation of the Dobson's Run Project | Phases I completed in 1998; Phases II and III were completed by 2011. | Refer to Section III.B.1.10 Eliminate CSO/Dobson's Run Project on page 95 of the CSO-Stormwater FY11 Annual Report |
| Eliminate CSO/Main and Shurs Off-Line Storage (SW) - Construction and Implementation of the Main and Shurs Off-line Storage Project | Please see **Section III.B.1** below for status | Please see **Section III.B.1** below for update |

## III.B.1 1997 LTCP Capital Improvement Projects

### *Eliminate CSO/Main and Shurs Off-Line Storage (SW) - Construction and Implementation of the Main and Shurs Off-line Storage Project*

The Upper Schuylkill East Side Interceptor Sewer (USES) is located along the Schuylkill River adjacent to the Manayunk Canal in the northwest section of Philadelphia. It conveys sewage from collection systems which serve the northwest section of the city. During extreme wet weather events, the USES exceeded its capacity and overflows occurred at relief point R-20 into a storm sewer upstream of storm water outfall S-052-5. To abate the hydraulic overload conditions in the USES, PWD finished construction of a 4 MG offline storage tank in May of 2013, which captures and stores excess flows. The tank serves to eliminate surcharges and prevent overflow conditions at the R-20 relief location.

The Venice Island Storage Facility is currently in service and operating as designed. In FY25, the facility captured stormwater from 9 major storms. The total captured volume was approximately 3.34 MG of sanitary wastewater. The weir elevation at the R-20 relief window remained at 65 inches during FY25.

Grit accumulation is a known USES issue that reduces interceptor capacity and the effectiveness of the Venice Island storage tank. PWD performs periodic grit surveys of the USES to better understand grit type and accumulation frequency. PWD performed a sonar inspection on the lower reach of the USES interceptor in FY19 which showed minimal grit deposition at that time. Routine level trending of the R-20 interceptor sensor indicated that grit deposition was not enough to warrant an interceptor cleaning during FY25. PWD will continue to track grit deposition in the USES and results from the on-going sonar inspection will guide PWD's future interceptor cleaning efforts. By taking a proactive approach, PWD can schedule flushing and sewer cleaning to maximize capacity of the interceptor and the Venice Island storage tank's effectiveness.

## III.B.2 New Capital Improvement Projects to be Included in LTCPU

Please see **Table 11** – Status updates for New Capital Improvement Projects to be included in LTCPU on page 39.

**Table 11: Status updates for New Capital Improvement Projects to be Included in LTCPU**

| Project | Status | Update / Reference |
|---|---|---|
| Asset and Capacity Management Program | | |
| Geographic Information System | Ongoing | Refer to Section II.A.1 Implement a Comprehensive Geographic Information System (GIS) of the City sewer system on page 6 |
| Sewer Assessment Program | Ongoing | Refer to Section II.A.2 Implement a Comprehensive Sewer Assessment Program (SAP) on page 6 |
| Monitoring and Modeling Program | Ongoing | Refer to II.B.1 Continue to Institutionalize a Comprehensive Monitoring and Modeling Program on page 7 |
| Inflow/Infiltration (I/I) Controls | | |
| Tide Inflow | Completed in 1999 | PWD continues to inspect and maintain all tide gates to ensure their correct performance. Refer to Section 2.1.2 Corrective Actions – Tide Inflow on page 28 of the 2001 CSO Annual Status Report |
| Sewer Assessment Program | | Refer to Section II.A.2 Implement a Comprehensive Sewer Assessment Program (SAP) on page 6 of this report |
| Infrastructure Assessments | Completed in 2008; PWD continues to monitor and inspect for problem areas | Refer to Section III.B.2.2 Infrastructure Assessments on page 82 of the CSO-Stormwater FY08 Annual Report |
| Interceptor Relining | • Cobbs Creek Interceptor (CC) – Ongoing (~50% Complete)<br>• Tacony Creek Interceptor (TC) – Ongoing (~50% Complete) | • CC – Phase 2 – In PC Contract Management ~ 5,100 ft.<br>• CC – Phase 4 – Contract closed - Complete ~ 8,350 ft.<br>• TC – Phase 3 – Design 30% ~ 6,550 ft.<br>• TC – Phase 4 – In Construction ~ 5,825 ft.<br>• TC – Phase 5 – In Construction ~ 6,400 ft. |
| PC-30 Parallel Relief Sewer | COA stipulations completed on 12/27/11. Operating as designed as of July 2013. Floats installed in FY19. | During FY25, there were no overflow events at manhole PC-0030. |
| Sewer Separation | | |
| | Sewer separation was studied and modeled as one of the options in the LTCPU and deemed cost prohibitive. No large-scale sewer separation projects have been identified or implemented during the reporting period. | |
| New Storage Facilities | | |
| | PWD is continuing to investigate opportunities to construct off-line CSO storage facilities to maximize existing sewer treatment capacity and increase the volume of CSO captured and treated. No new storage facility projects have been implemented during the reporting period. | |

## III.C Watershed-Based Management - Continue to Apply the Watershed Management Planning Process and Produce and Update the Watershed Implementation Plans

### *Watershed Alliance of Southeastern Pennsylvania*

In 2013, PWD and its designated watershed partnership facilitator, the Pennsylvania Environmental Council (PEC), initiated the Watershed Alliance of Southeastern PA to unite the watershed partnerships in the Philadelphia area. The Alliance members became an integral component of the Upstream Suburban Philadelphia Cluster, part of the Delaware River Watershed Initiative (DRWI), created in 2014. Since 2014, PEC has facilitated DRWI Upstream Suburban Philadelphia partners including watershed groups and academic institutions. This partnership has implemented over 67 stormwater management and watershed restoration capital projects at 46 project locations, and over 230 smaller homeowner stormwater management projects. A Story Map summary of the DRWI Upstream Suburban Philadelphia initiative is available here. The overall effort seeks to improve water quality and manage stormwater where it falls, to benefit Philadelphia area watershed residents both inside and upstream of the City. While this William Penn Foundation DRWI Initiative ended in 2025, PEC continues to promote stormwater management and watershed restoration projects with the Upstream Suburban Philadelphia partner organizations. PEC and watershed organization partners in the Wissahickon, Tookany/Tacony-Frankford, Pennypack, and Poquessing Watersheds are promoting lawn to meadow projects and a training program with PA DCNR and National Fish and Wildlife Foundation grant funding. PEC also supports municipalities with ordinance assessments that focus on reducing barriers to the use of green stormwater infrastructure during land development. A GSI Ordinance Evaluation Guidebook was created for municipalities under a Coastal Zone Management grant.

### *Implementation Planning - Development of Target Approach for Meeting Goals and Objectives*

The culmination of the watershed management planning process often results in an Integrated Watershed Management Plan (IWMP), or a watershed-specific planning document. The process for developing watershed planning documents has evolved and depends on the interests of the partnerships. Table 12 contains the status of the various plans in each of Philadelphia's watersheds. Information on the each of the watersheds and the completed plans can be found at www.phillywatersheds.org/your_watershed. Many of the recommended management options in the TTF and Cobbs Creek IWMPs have been institutionalized a city-wide basis and continue to be implemented.

The watersheds in the MS4 section of the city have undergone a slightly different process. In these watersheds (Pennypack, Poquessing, and Wissahickon), the stakeholder goals and objectives were established through the development of Rivers Conservation Plans and Act 167 Plans. PWD works with the watershed partners through these existing watershed-based planning efforts. Details on the Act 167 Plans can be found in **Section III.C.3.7 Basin-Specific Stormwater Management Plans (ACT 167)** on page 47. The Act 167 process has met PWD's goal to have watershed-wide commitment to the watershed planning process and allows the process to be partner-driven and focused on implementation.

**Table 12: Planning by Watershed**

| Watershed | Preliminary Reconnaissance | Watershed Monitoring Program | River Conservation Plan | Watershed Management Plan | Implementation Commitment Status |
|---|---|---|---|---|---|
| Delaware River (tidal, non-tidal) | Monitoring Only | | Completed in 2011 | PWD continues to work with watershed partners on implementing specific projects. | Philadelphia commitment documented in the LTCPU and its supplements. |
| Cobbs-Darby Creeks | 2003 | 2003 | Darby RCP completed in 2005 by Darby Creek Valley Association | Completed 2004 | Philadelphia commitment documented in the LTCPU and its supplements. |
| Tacony-Frankford Creek | 2000/2001 | 2004 | Completed in 2004 | Completed 2005 | Philadelphia commitment documented in the LTCPU and its supplements. |
| Pennypack Creek | 2002 | 2007-2008 | Completed in 2005 | Act 167 Stormwater Management Plan approved in July 2013 | Philadelphia is implementing the Act 167 Plan through the Philadelphia Stormwater Management Regulations. |
| Schuylkill River (tidal, non-tidal) | Monitoring Only | | Completed in 2001 by the Academy of Natural Sciences, Natural Lands Trust, and the Conservation Fund | PWD continues to work with watershed partners on implementing specific projects. | Documented in the LTCPU and its supplements. |
| Poquessing Creek | 2001 | 2008-2009 | Completed in 2007 | Act 167 Stormwater Management Plan approved August 28, 2013. | Philadelphia is implementing the Act 167 Plan through the Philadelphia Stormwater Management Regulations. |
| Wissahickon Creek | 2001 | 2005-2006 | Completed in 2000 by FPC | Act 167 Stormwater Management Plan approved on July 10, 2015 | A Wissahickon TMDL Implementation Plan was submitted in 2012. Implementation plan depends on watershed partnership support for a watershed-wide initiative. |

### III.C.1 LAND: Wet-Weather Source Control

Watershed management fosters the coordinated implementation of programs to control sources of pollution, reduce polluted runoff, and promote managed growth in the city and surrounding areas, while protecting the region's drinking water supplies, fishing and other recreational activities, and preserving sensitive natural resources such as parks and streams.

PWD is committed to a balanced "land-water-infrastructure" approach to achieve its watershed management and CSO control goals. Where appropriate, this method includes infrastructure-based approaches but focuses on implementation of a range of land-based stormwater management techniques and physical reconstruction of aquatic habitats where appropriate. The goal of PWD's approach is to regain the resources in and around streams that have been lost due to urbanization, both within the City of Philadelphia and in the surrounding counties, while achieving regulatory compliance objectives in a cost-effective manner. Central to all these planning programs is a commitment to greening, sustainability, open space, waterfront revitalization, outdoor recreation, and quality of life.

The wet-weather source controls have been formalized in the LTCPU and its supplements, including the Consent Order and Agreement signed on June 1, 2011, which formally approved the Green City, Clean Waters program. Detailed information on the land-based wet-weather source controls can be found in **Appendix A – Green City, Clean Waters FY25 Annual Report**.

#### III.C.1.1 Ordinance and Regulations Modifications - Continue to review and revise stormwater management regulations for development and redevelopment

PWD's Stormwater Management Regulations became effective in Philadelphia on January 1, 2006, which provided PWD with an opportunity to ensure development/redevelopment that protects our water resources, reduces neighborhood flooding, and improves the quality of life in our communities. The Stormwater Management Regulations are triggered when a project disturbs 15,000 or more square feet of earth. Effective July 1, 2015, the Stormwater Regulations were updated to improve and strengthen PWD's stormwater programs. For more information on PWD's Regulations, please see the MS4 Annual Report **Section F.5.b – Post-Construction Stormwater Management in New Development and Redevelopment** on page 26.

#### III.C.1.2 Guidance on Stormwater Management Regulations Implementation

PWD staff in charge of Stormwater Regulation implementation are available to the development community to discuss both general questions as well as technical details regarding specific projects. Guidance is provided by PWD staff as it relates to regulatory applicability as well as stormwater management implementation and approach. In addition to in-person meetings, virtual meetings have allowed the Department to be more available to applicants on short notice. PWD staff continue to be available for pre-application meetings and project discussions on demand as needed. Contact information can be found at https://water.phila.gov/development/stormwater-plan-review/.

#### III.C.1.3 Implementation of Stormwater BMPs and LID - Continue to implement best management and LID demonstration

PWD continues to implement stormwater BMPs and LID, now referred to as Green Stormwater Infrastructure (GSI) through the Green City, Clean Waters program. Please refer **to Appendix A – Green City, Clean Waters FY5 Annual Report** for a detailed description on the City's implementation of GSI during FY25.

### III.C.1.4 Catch Basin Control Program - Continue to maintain the trapped inlets

PWD continues to maintain all City-owned inlets and catch basins to ensure they are clear and operating correctly. For a full description of the activities conducted by inlet cleaning programs during FY24, please refer to **Section II.F.1 Control the Discharge of Solids and Floatables by Cleaning Inlets and Catch Basins** on page 16.

### III.C.1.5 Impervious Cover Disconnection - Evaluate the feasibility of separating the stormwater runoff from large impervious land tracts for management and direct discharge

PWD evaluates opportunities to separate stormwater runoff from large impervious tracts of land using incentives and regulatory-based approaches. Projects that apply for PWD's grant programs are evaluated for disconnection potential and encouraged to construct connections to available separate storm sewer or private stormwater outfalls where feasible. PWD continues to evaluate opportunities for separating stormwater runoff from large impervious land tracts through private development and incentivized retrofits.

### III.C.1.6 Reforestation - Work to implement reforestation demonstration projects to provide additional tree canopy

#### *Green Stormwater Infrastructure Projects*

Community greening and tree planting is a key component of green stormwater infrastructure and the Green City, Clean Waters plan. PWD has been planting trees as part of the GSI projects. Please refer to **Appendix A – Green City, Clean Waters FY24 Annual Report** for information on trees planted as part of GSI projects implemented in the city.

#### *Philadelphia Parks & Recreation's Tree Planting Initiatives*

In 2023 PPR released the Philly Tree Plan, a 10-year strategic plan for the equitable growth and care of Philadelphia's urban forest. The plan outlines 8 goals to increase tree canopy to 30% throughout the city:

- Coordinate support for trees
- Protect the existing and future urban forest
- Grow the urban forest equitably across the city
- Reduce the burden of trees on residents
- Invest in people and communities
- Communicate with residents and improve customer service
- Advocate for communities to benefit from the urban forest
- Celebrate and support the ways communities are engaging with trees

A $12 million US Department of Agriculture grant will help fund the implementation of the plan.

As part of PPR's regular tree planting and give away programs, PPR contracted trees to be planted in the right-of-way in front of properties and on public lands. During FY25, 870 street trees were planted through this contract.

PPR's TreePhilly community forestry program directly engages Philadelphians in improving their communities by planting and maintaining trees. In FY25, community organizers on the TreePhilly team distributed 1,042 yard trees for residents to plant on private property, facilitated the planting of 155 street trees along commercial corridors, and planted 35 park trees.

## III.C.2 Water Ecosystem Restoration and Aesthetics

### III.C.2.1 Waterways Restoration Team - Continue the assignment of a dedicated clean-up team to remove cars, shopping carts, and other debris, from CSO receiving waters

During FY25, the Waterways Restoration Team has continued their program which includes removal of cars, shopping carts, and other debris from receiving waters. Please refer to **Section II.F.2 Continue to Fund and Operate the Waterways Restoration Team** on page 17 for information pertaining to the Waterways Restoration Team's activities during FY25.

### III.C.2.2 Waterways Restoration Team - Evaluate the capabilities of this crew in performing minor stream bank and bed repair around outfall pipes and to remove debris at these outfalls

During FY25, the Waterways Restoration Team continued their program, which includes conducting minor stream bank and bed repairs around outfalls and removing debris around them. Please refer to **Section II.F.2 Continue to Fund and Operate the Waterways Restoration Team** on page 17 for information pertaining to the Waterways Restoration Team's activities during FY25.

### III.C.2.3 Stream Habitat Restoration - Propose and implement demonstration projects to address habitat degradation by engineering the stream channels to modern day flows and directly reconstructing the aquatic habitat

PWD employs natural stream channel design (NSCD) and associated stormwater management BMPs to improve the health of aquatic communities in receiving waters with degraded flow and habitat alterations due to stormwater runoff. For a description of these projects, please see the MS4 Annual Report **Section F.2.Step 3.a – Assess the benefits of implementing a Natural Stream Channel Design (NSCD) and effectiveness of the NSCD restoration approach** on page 15.

### III.C.2.4 Wetland Enhancement and Construction

Three stormwater treatment wetlands facilities were designed and implemented to remove pollutants and mitigate peak flows, while providing aesthetic and ecological benefits. For a description of these projects, please refer to the MS4 Annual Report **Section F.2.Step 3.a – Access the benefits of implementing a Natural Stream Channel Design (NSCD) and effectiveness of the NSCD restoration approach** on page 15.

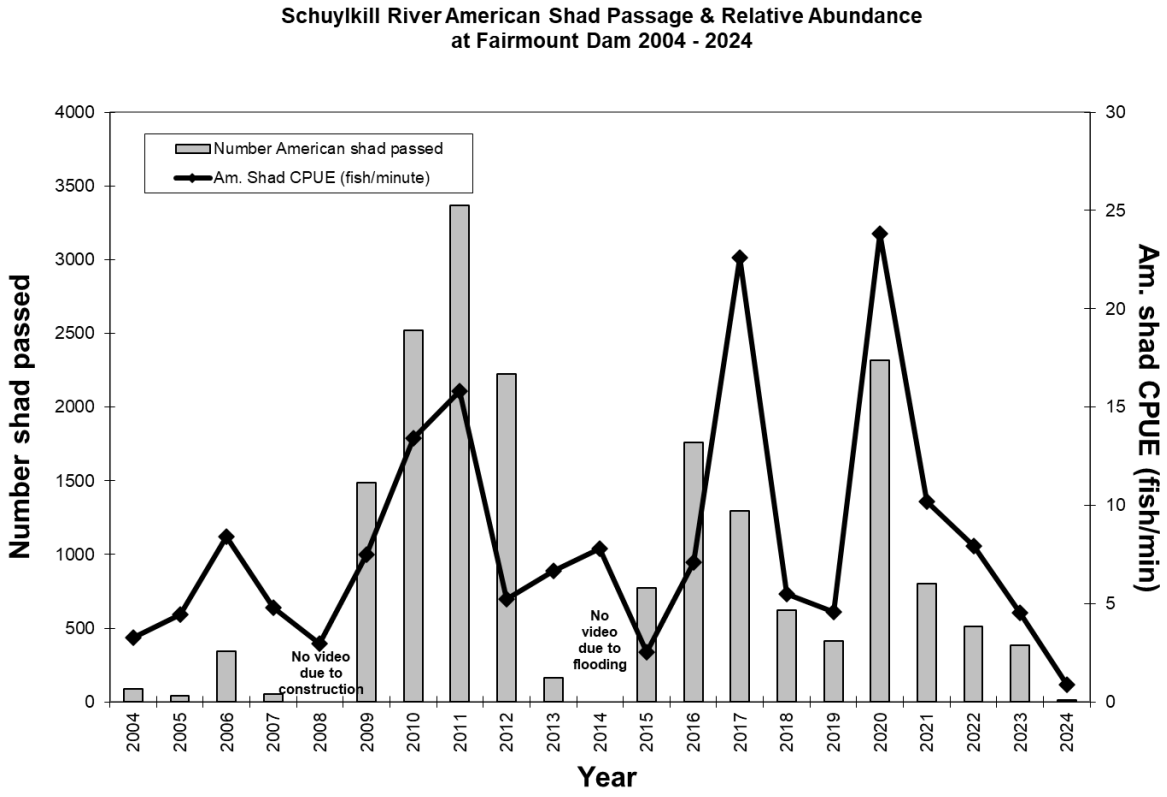
### III.C.2.5 Fish Passage Projects

#### *Schuylkill River: Fairmount Fishway*

In 2009, through a joint cooperative agreement with the USACE, the City of Philadelphia upgraded many features of the fishway to improve hydraulics and overall fish passage efficiency. Adult American Shad relative abundance (CPUE, number of shad per minute of electrofishing) in the tidal Schuylkill River in 2024, ranked 21$^{st}$ overall in the time-series (2002-2024). The 2024 CPUE at Fairmount Dam (0.86 shad/minute) was the lowest in the time series (2002 – 2024), and significantly below both the geometric mean (6.29 shad/minute) and the median value (6.69 shad/minute). It should be noted that boat electrofishing survey effort in 2024 (5.45 hours) was slightly above the time series average (5.2 hours) and represents a return to pre-COVID 19 pandemic sampling effort. The 2024 American Shad passage at Fairmount Fishway returned to actual recorded video counts, following two years of a linear regression model ($y = 1.8104x + 1.0769$; $r^2 = 0.5826$) of electrofishing relative abundance (catch per unit effort CPUE) and shad passage of multi-decadal time-series data (2004 – 2022) during to COVID years.

Adult American Shad passage (n = 12) in 2024 was the lowest in the time series and ranked 21st overall, falling significantly below the passage arithmetic mean (n = 959) and well below the passage geometric mean of 473 Shad. The Fairmount Fishway remained fully open and operational during the 2024 season, and video monitoring recordings were captured and analyzed. Otolith analysis of adult American Shad returning to the Schuylkill River in 2024 could not be conducted due to poor numbers of returning adults.

**Figure 2: Catch-Per-Unit-Effort and Fish Passage of American Shad**




## III.C.2.6 Riparian Buffer Creation and Enhancement

### *Environment, Stewardship & Education Division*

PWD continues to support Philadelphia Parks and Recreation, which undertakes a broad range of environmental restoration activities throughout the park system. Restoration activities have been ongoing since 2008. These efforts have been discussed in previous years; for more details and a full list of these activities, please refer to Section III.C.2.6 Environment, Stewardship & Education Division on page 121 of the CSO-Stormwater FY12 Annual Report.

### *Riparian Buffer component of Stream Restoration Projects*

Riparian buffer enhancement will be evaluated in all stream restorations that are completed. Typically, riparian buffer enhancement activity includes invasive species management, live-stake planting, native tree and shrub planting, and native seed mix application. Invasive species management usually begins one to two years prior to construction. Once the construction of the stream restoration project is complete, a landscaping plan is implemented which includes all the applications mentioned above. Please refer to the MS4 Annual Report **Section F.2.Step 3.a – Access the benefits of implementing a**

**Natural Stream Channel Design (NSCD) and effectiveness of the NSCD restoration approach** on page 15 for more information on these topics.

*PWD and PP&R Stream Projects Coordination*

The PWD and PP&R Stream Projects Coordination Meeting Series (formerly the Natural Lands Team), initiated in 2011, is a group comprised of members from PWD's Ecological Restoration Unit, Waterways Restoration Team, Public Affairs, PWD Design Branch, and staff from Philadelphia's Department of Parks and Recreation. Quarterly meetings are held to coordinate a wide range of projects that affect the city's stream corridors and natural areas. Through centralizing the myriads of ongoing and upcoming projects, this group works to improve efficiency and communication. Projects include but are not limited to stream restoration, wetland creation, stormwater management, infrastructure protection, and invasive species management. During FY25, PWD and PP&R Stream Projects group convened to discuss upcoming projects and potential issues that could be addressed by the team members.

## III.C.3 Other Watershed Projects

### III.C.3.1 River Conservation Plan - Continue to work in partnership with local partners to complete and implement River Conservation Plans (RCPs)

All River Conservation Plans (RCPs) are available for viewing at: https://water.phila.gov/reporting/watershed-plans-reports/ under each respective watershed's key documents.

**Table 13: River Conservation Plan References**

| River Conservation Plans | Complete Date | Previous Reference |
|---|---|---|
| Darby Creek | 2005 | Page 121 of the CSO-Stormwater FY 2008 Annual Report |
| Tacony-Frankford | 2004 | Page 74 of the FY 2005 Stormwater Annual Report |
| Pennypack | 2005 | Page 122 of the CSO-Stormwater FY 2008 Annual Report |
| Poquessing | 2007 | Page 155 of the CSO-Stormwater FY 2010 Report |
| Delaware Direct | 2011 | Page 151 of the CSO-Stormwater FY 2011 Annual Report |

### III.C.3.2 Watershed Information Center - Create a website to serve as a Watershed Information and Technology Center

The City maintains several websites that provide information on our watersheds and activities within them, please refer to **Section II.G.2 Continue to Maintain Watershed Management and Source Water Protection Partnership Websites** on page 24 and **Section II.H.2 Expand the Internet-Based Notification System (River cast) to the Tidal Section of the Lower Schuylkill River** on page 34 for additional information on the websites.

### III.C.3.3 Integrated Water Use Status Networks - Pilot a communication and water quality monitoring network that supports the identification and analysis of water quality events

PWD has two communication and water quality monitoring networks. RiverCast supports the identification and analysis of water quality events to support recreational water use status decisions (swimming, triathlons, rowing, etc.) and makes this information available in real time to the public. EWS is used to monitor water quality and notify water utilities about such events as hazardous substance spills or sudden changes in water quality.

Please refer to **Section II.G.2 Continue to Maintain Watershed Management and Source Water Protection Partnership Websites** on page 24 for details about these communication and water quality monitoring systems.

### III.C.3.4 Integrated Water Use Status Networks - Evaluate the technical and fiscal needs to expand the network into additional receiving waters where recreational uses are taking place.

Please refer to **Section II.H.2 Expand the Internet-based Notification System (RiverCast) to the Tidal Section of the Lower Schuylkill River** on page 34 for information pertaining to this topic.

### III.C.3.5 Interpretive Signage - Continue to implement interpretive signage

*Green Stormwater Infrastructure and Restoration Locations Signage*

Information on the Green City, Clean Waters Signage Program can be found within **Appendix A- Green City, Clean Waters FY24 Annual Report**.

### III.C.3.6 Interpretive Centers - Continue to support existing educational interpretive centers to educate citizens about their community and the water environment

PWD supports several existing educational centers including FWW and many public outreach efforts conducted by partners. Please refer to **Section II.G.3 Continue to Provide Annual Information to City Residents about Programs via Traditional PWD Publications** on page 31 and **Section II.G.4 Continue to Support the Fairmount Water Works** on page 32 for more information on activities done in FY24 by the FWW and partner sponsored events.

### III.C.3.7 Basin-Specific Stormwater Management Plans (Act 167) - Continue to support the State Act 167 Storm water Management Planning process and integrate the results of these efforts into the watershed management plans and implementation plans

As of July 10, 2015, all Act 167 plans have been approved. Please refer to **Table 12 Planning by Watershed** on page 41 for more information. The reports for each watershed are available to the public through the internet at the following address: http://water.phila.gov/reporting/watershed-plans-reports/.

### III.C.3.8 Sewage Facility Planning - Continue to review sewage facility planning modules and downstream sewage conveyance and treatment facilities to ensure that adequate capacity exists within these systems to accommodate flow

During FY25, PWD granted Act 537 approvals for 685 building permit applications for projects within Philadelphia County. During the same period, PWD also issued sanitary sewer capacity certifications for 75 projects within portions of suburban municipalities that are tributary to Philadelphia's conveyance and treatment system.

## III.C.4 Monitoring and Assessment

### III.C.4.1 NPDES – Quarterly Special Discharge Monitoring Report

PWD is committed to submitting the Quarterly Special Discharge Monitoring Report (DMR) documenting the Department's CSO discharges during the specified time periods. This report is due 45 days after the end of each quarter, and is submitted by February 15, May 15, August 15, and November 15 of each year. During FY25, four DMRs were submitted within the 45-day timeframe. These reports are also referred to as Quarterly Combined Sewer Overflow Status Reports.

### III.C.4.2 NPDES - Annual CSO Status Report

Monitoring and characterization of CSO impacts from a combined wastewater collection and treatment system are necessary to document existing conditions and to identify water quality benefits achievable by CSO mitigation measures. The tables included in **Appendix D** and other information provided within this annual report represent the average annual CSO overflow statistics for period July 1, 2024 – June 30, 2025 as required in the NPDES Permit. Please refer to **Table 1 in Appendix D – NPDES Annual CSO Report Status FY25** for a listing of all CSO permitted outfalls. The tables have been organized to present overflows by the specific receiving water into which the CSOs from a given interceptor system discharge. To be consistent, the column headings are presented in the same format found in the System Hydraulic Characterization (SHC) and NMC Documentation.

### III.C.4.3 Rotating Basin Approach to Watershed Monitoring - Continue to implement a rotating basin approach to watershed monitoring in CSO receiving waters in order to characterize the impact of CSO discharges and other pollutant/pollution sources and the efficacy of CSO controls and watershed restoration practices.

The Rotating Basin Approach has been replaced with a “Comprehensive Watershed Monitoring Program,” a monitoring strategy developed by PWD to comply with both the City’s stormwater and CSO permit requirements and to assist with the Source Water Protection Program’s objectives. Please refer to **Appendix 4** of the COA report for more details.

Please refer MS4 Annual Report **Section F.2.Step 1.b – Preliminary physical, chemical, and biological quality assessment** on page 8 for information about Comprehensive Watershed Monitoring Program.

# Stormwater Management Program
# Annual Report

**National Pollutant Discharge Elimination System (NPDES) Permit**
**No. PA 0054712**
**Reporting Period July 1, 2024 to June 30, 2025**

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# Part I Permit Conditions

## Section A Applicability and Limitation on Coverage

The City will comply with the permit language on what are authorized and unauthorized stormwater discharges.

## Section B Legal Authority

In accordance with the National Pollutant Discharge Elimination System (NPDES) regulations contained in 40 C.F.R. Sections 122.26(d)(1)(ii) and (d)(2)(i), the City maintains adequate legal authority to enforce the Stormwater Management Program through the Philadelphia Code (Code) and the Water Department (PWD) Regulations.

Code Section 13-603 regulates discharges into the storm sewer system and includes penalties for violations. Code Section 13-603(4)(a) grants PWD and the Department of Licenses and Inspections (L&I) the authority to require compliance, including issuing regulations, and investigating, inspecting, and monitoring all premises. Under the City's zoning provisions in Code Sections 14-301(10) and 14-704(3), PWD has the authority to regulate stormwater management on a City-wide basis. Code Section 14-306(1) grants PWD and L&I specific enforcement authority for zoning violations. The Code can be accessed at https://codelibrary.amlegal.com/codes/philadelphia/latest/overview.

PWD Regulations further provide PWD legal authority to enforce the Stormwater Management Program. Chapter 5 prohibits cross connected sewer laterals and Chapter 6 implements the authority to regulate stormwater management for new and redevelopment in the City. PWD Regulations can be accessed at https://www.phila.gov/water/wu/ratesregulationsresp/Pages/Regulations.aspx.

This Annual Report is submitted to the Pennsylvania Department of Environmental Protection (PADEP) and the US EPA, in accordance with requirements of the City of Philadelphia's NPDES Stormwater Management Permit No. PA 0054712. The report documents the Fiscal Year 2025 (FY25) progress completed in order to comply with the requirements during the reporting period from July 1, 2024 to June 30, 2025.

## Section D Sediment Total Maximum Daily Load (TMDL) for Wissahickon Creek

### *Wissahickon Sediment TMDL Monitoring Plan Implementation*

PWD submitted a Wissahickon Siltation TMDL Implementation Plan Update in March 2018. This document includes updates on the 2012 Siltation TMDL Implementation Plan's four components: stream restoration, stormwater wetlands, inlet catch basin cleaning, City of Philadelphia Stormwater Regulations (enacted in January 2006) and the estimated sediment reduction associated with these activities. A more detailed Wissahickon Siltation TMDL Monitoring Report (with appendices) was also submitted in March 2018. The monitoring report includes results from cross-sectional survey analysis of stream restoration projects, photo monitoring, in-stream evaluations of stream restoration structures, and Hydraulic and Hydrologic modeling of stormwater wetlands.

# Section E Pollutant Minimization Plan for Polychlorinated Biphenyls in the City's MS4

**During the eighteenth year of the PCB PMP, the following tasks were accomplished:**

- 118 of the 337 remaining sites listed by EPA or other agencies as housing PCB containing devices were inspected.
- Wet-weather PCB sampling and analysis of the three Water Pollution Control Plants' (WPCPs) effluent was performed as required by the WPCP NPDES permits.
- PWD continued monitoring outlying township connections using EPA Method 680.
- PWD continued monitoring of groundwater discharged from new construction and remediation sites to ensure compliance with PWD's published PCB limit of "non-detection by EPA Method 680."
- PWD received 16 groundwater permit applications and had forty-one (41) active permits in calendar year 2024. All permittees were compliant with PWD's regulatory PCB limit of "non-detectable by EPA Method 608."
- PWD wet and dry weather WPCP effluent data have been entered into the DRBC PCB database. For more information, please see **Appendix E - PCB PMP 18th Annual Report**.

**Additionally, the following initiatives were undertaken:**

- PWD's PCB database, developed in 2017, is now being utilized to track and report the 2024 inspections.
- Each inspection location has been given a unique ID and geocoded in PWD's GIS database. Maps of PCB sites inspected in 2024 were created to display inspections by WPCP drainage area.

# Section F Stormwater Management

## F.1. Source Identification

A description of PWD's MS4 Infrastructure, including stormwater outfalls, lengths of sanitary sewer, and lengths of stormwater sewer within Philadelphia are shown in **Table 1**. The 205 "Non-PWD Owned" outfalls listed in the table are owned by other City agencies, private entities, or individuals. The PWD-owned stormwater outfall locations and MS4 areas are shown in **Figure 1**. PWD continually improves the GIS datasets as new data becomes available.

**Table 1: Description of MS4 Infrastructure**

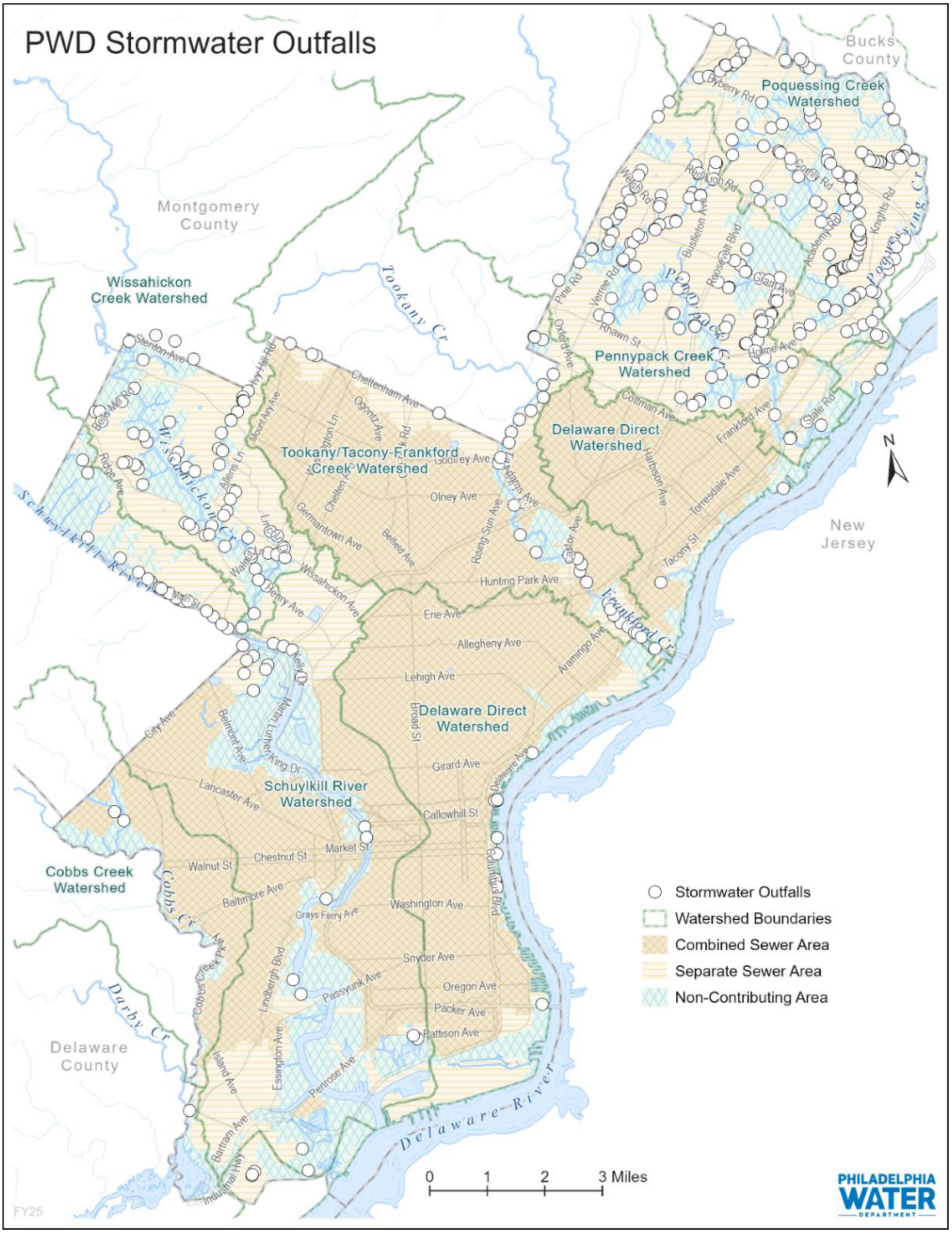
| Watershed | Drainage Area (Square Miles) | Miles of Pipe | | | MS4 Outfalls Count | |
|---|---|---|---|---|---|---|
| | | Stormwater | Sanitary | Total MS4 | PWD Owned | Non-PWD Owned |
| Darby-Cobbs | - | 1.0 | 0.8 | 1.8 | 3 | - |
| Delaware Direct | 3.2 | 79.8 | 52.7 | 132.5 | 18 | 122 |
| Pennypack | 11.7 | 234.9 | 234.0 | 469.0 | 130 | 14 |
| Poquessing | 8.0 | 154.7 | 156.5 | 311.2 | 141 | 19 |
| Schuylkill | 8.5 | 153.4 | 156.8 | 310.3 | 45 | 47 |
| Tacony | 2.5 | 54.5 | 59.0 | 113.5 | 34 | 1 |
| Wissahickon | 5.8 | 95.2 | 104.86 | 200.0 | 63 | 2 |
| **Total** | **39.5** | **773.5** | **764.7** | **1,538.2** | **434** | **205** |

GIS Data Layers have been submitted within an ESRI file geodatabase, **PWD_Annual_Report_GIS_Data_FY25.gdb**. The GIS data feature class file names within the geodatabase are provided in **Table 2**.

**Table 2: GIS Data Feature Classes within PWD_Annual_Report_GIS_Data_FY25.gdb**

- All_PWD_Monitoring_FY25
- GSI_Monitored_Locations_FY25
- Public_GSI_Projects_Completed_FY25
- Public_GSI_Projects_Planned_FY25
- Pollution_Migration_Events_FY25
- Active_Construction_Sites_FY25
- Verified_Regulations_FY25
- Verified_Retrofits_FY25
- New_Project_Submissions_FY25
- Technical_Approvals_FY25
- Hydrology_Centerline
- Hydrology_Polygon
- Land_Use_PCPC_FY25
- PCB_Locations_Known_Historical
- NPDES_Permitted_Dischargers_FY25
- Detention_Basins_Philadelphia
- Impervious_Surfaces_Planimetric_2004
- Major_Watersheds_Full_Extent
- Major_Watersheds_Philadelphia_Clip
- Sewersheds_FY25
- Census_Blocks_2020_Philadelphia
- Census_Tracts_Population_ACS2023
- Stormwater_Outfalls
- Stormwater_Outfalls_with_DrainageArea_Summary
- Stormwatersheds_Pennypack
- Stormwatersheds_Poquessing
- Stormwatersheds_Wissahickon
- Point_Sources_Wissahickon
- Scrap_Yard_Inspections_FY25

**Figure 1: City of Philadelphia Water Department Stormwater Outfalls**



Descriptions of the GIS layers referenced in **Table 2** are provided below:

*All_PWD_Monitoring_FY25*
This layer presents the locations of PWD's chemical, fish, macroinvertebrate, and algae sampling sites. The contents of this feature class are discussed in **Section F.2.Step.1.b** on page 8.

*GSI_Monitored_Locations_FY25*
This layer presents the locations of existing green stormwater infrastructure projects actively monitored by PWD in Philadelphia County.

*Public_GSI_Projects_Completed_FY25*
This layer presents the locations of completed publicly implemented green stormwater infrastructure projects within Philadelphia County.

*Public_GSI_Projects_Planned_FY25*
This layer presents the locations of planned publicly implemented green stormwater infrastructure projects sorted by their status within Philadelphia County.

*Pollution_Migration_Events_FY25*
This layer presents the locations of spills documented by PWD Industrial Waste Unit within Philadelphia in FY25. The contents of this layer are discussed in **Section F.7.a – Pollutant Migration/Infiltration to the MS4 System** on page 28.

*Active_Construction_Sites_FY25*
This layer presents the locations of active construction private development projects tracked by PWD within Philadelphia in FY25. The contents of this layer are discussed in **Section F.5 – Monitor and Control Stormwater from Construction Activities** on page 20.

*Verified_Regulations_FY25*
This layer presents the locations of constructed and verified private development projects subjected to stormwater regulations within Philadelphia in FY25. The contents of this layer are discussed in **Section F.5 – Monitor and Control Stormwater from Construction Activities** on page 20.

*Verified_Retrofits_FY25*
This layer presents the locations of constructed and verified private retrofit development projects subjected to stormwater regulations within Philadelphia in FY25. The contents of this layer are discussed in **Section F.5 – Monitor and Control Stormwater from Construction Activities** on page 20.

*New_Project_Submissions_FY25*
This layer presents the locations of new project submissions for conceptual stormwater plan review in FY25. The contents of this layer are discussed in **Section F.5.b – Post-Construction Stormwater Management in New Development and Redevelopment** on page 24.

*Technical_Approvals_FY25*
This layer presents the locations of projects issued Post-Construction Stormwater Management Plan (PCSMP) by PWD in FY25. The contents of this layer are discussed in **Section F.5.b – Post-Construction Stormwater Management in New Development and Redevelopment** on page 24.

*Hydrology_Centerline*
This layer presents the surrounding watershed hydrology in a polyline-based feature class.

*Hydrology_Polygon*
This layer presents the surrounding watershed hydrology in a polygon-based feature class.

*Land_Use_PCPC_FY25*
This layer presents Philadelphia land use as ascribed to individual parcel boundaries or units of land. Land use is the type of activity occurring on the land such as residential, commercial, or industrial. Each unit of land is assigned to one of nine major classifications of land use (2-digit codes) and where possible more narrowly defined into one of 70 sub-classifications (3-digit codes).

*PCB_Locations_Known_Historical*
This layer presents the location of all known and historical PCB locations within Philadelphia. The contents of this layer are discussed in **Section E – Pollutant Minimalization Plan for Polychlorinated Biphenyls in the City's MS4** on page 2.

*NPDES_Permitted_Dischargers_FY25*
This layer presents the location within Philadelphia of all NPDES Industrial Stormwater permitted dischargers. The contents of this layer are discussed in **Section F.2.Step 1.c** on page 14 and a list of permitted facilities can be found in **Appendix J – NPDES Industrial Stormwater Permitted Sites – Philadelphia County.**

*Detention_Basins_Philadelphia*
This layer presents the location of all known stormwater detention basins within Philadelphia County.

*Impervious_Surfaces_Planimetric_2004*
This layer presents percent imperviousness and the amount of impervious area in Philadelphia County.

*Major_Watersheds_Full_Extent*
This layer presents the delineation of the Philadelphia County and surrounding counties' watershed boundaries including Darby-Cobbs, Delaware-Direct, Pennypack, Poquessing, Schuylkill, Tacony-Frankford, and Wissahickon watersheds.

*Major_Watersheds_Philadelphia_Clip*
This layer presents the delineation of the Philadelphia County's watershed boundaries including Darby-Cobbs, Delaware-Direct, Pennypack, Poquessing, Schuylkill, Tacony-Frankford, and Wissahickon watersheds.

*Sewersheds_FY25*
This layer presents the boundaries of the separate, combined sewer, un-sewered, non-contributing, and stormwater only areas within Philadelphia County.

*Census_Blocks_2020_Philadelphia*
This layer presents the results of the 2020 Census in Philadelphia County at the census block level.

*Census_Tracts_Population_ACS2023*

This layer presents the most recent population estimates for census tracts in Philadelphia as determined by the most recently available US Census Bureau's American Community Survey five-year estimates.

*Stormwater_Outfalls*
This layer presents locations of all permitted stormwater outfalls within Philadelphia County and the neighboring contributing areas.

*Stormwater_Outfalls_with_DrainageArea_Summary*
This layer presents locations of all permitted stormwater outfalls within Philadelphia County and the neighboring contributing areas. Drainage area analysis values are appended in the attribute table to display outfall metrics including total drainage area, total impervious drainage area, percent impervious, and runoff coefficient.

*Stormwatersheds_Pennypack*
This layer presents the stormwater drainage areas to receiving waterways and stormwater outfalls within the Pennypack Watershed.

*Stormwatersheds_Poquessing*
This layer presents the stormwater drainage areas to receiving waterways and stormwater outfalls within the Poquessing Watershed.

*Stormwatersheds_Wissahickon*
This layer presents the stormwater drainage areas to receiving waterways and stormwater outfalls within the Wissahickon Watershed.

*Point_Sources_Wissahickon*
This layer presents permitted Point source locations within the Wissahickon Watershed.

*Scrap_Yard_Inspections_FY25*
This layer presents the locations of scrap yards inspected during the fiscal year. Data was provided to PWD by the Department of Licenses and Inspections.

*GIS Stormwater Data Conversion Geodatabase Layers*
The City has previously submitted additional GIS data layers that will not be included in the FY25 report. These layers include outfalls, manholes, inlets, and various pipe as listed in **Table 3**. The reason for their removal is the City's policy effective since the FY09 Annual Report to not release these data layers to the public due to security concerns. PWD would make these layers available for viewing, should it be necessary.

**Table 3: GIS Data Feature Classes within StormwaterDataConversion.mdb**

| | |
|---|---|
| DataConv_GISAD_stBasin | DataConv_GISAD_stInletPipe |
| DataConv_GISAD_stBoring | DataConv_GISAD_stMeterChamber |
| DataConv_GISAD_stCasin | DataConv_GISAD_stOffsetAccess |
| DataConv_GISAD_stChamber | DataConv_GISAD_stOpenChannel |
| DataConv_GISAD_stCulvert | DataConv_GISAD_StormNetwork_Junctions |
| DataConv_GISAD_stDisconnectedInlet | DataConv_GISAD_stOutfall |
| DataConv_GISAD_stFitting | DataConv_GISAD_stPointFeature |
| DataConv_GISAD_stFlare | DataConv_GISAD_stPump |
| DataConv_GISAD_stForceMain | DataConv_GISAD_stRainGauges |
| DataConv_GISAD_stGravityMain | DataConv_GISAD_stStructure |
| DataConv_GISAD_stHostPipe | DataConv_GISAD_stTunnel |
| DataConv_GISAD_stManhole | DataConv_GISAD_stVentPipe |
| DataConv_GISAD_stManholeOther | DataConv_GISAD_stVirtualLink |
| DataConv_GISAD_stInlet | DataConv_GISAD_stVirtualNo |

## F.2. Discharge Management, Characterization, and Watershed-based Assessment and Management Program

### Step 1. Preliminary Reconnaissance: Permit Issuance through end of Year 2

#### a. Land use and resource mapping

PWD has conducted extensive mapping of information relevant to stormwater management planning. Previously discussed in **Section F.1 – Source Identification** of this document on page 2, the GIS layers include MS4 outfalls and contributing drainage areas, land use, population, monitoring locations, and other relevant layers.

#### b. Preliminary physical, chemical, and biological quality assessment

#### Comprehensive Watershed Monitoring Program

Comprehensive assessment of Philadelphia's waterways is integral to planning for the long-term health and sustainability of the City's water systems. By measuring all factors that contribute to supporting fishable, swimmable, and drinkable water uses, appropriate management strategies can be developed for each watershed land area that Philadelphia shares.

PWD has carried out extensive sampling and monitoring programs to characterize conditions in seven local watersheds**,** both within the county boundaries and outside counties/municipalities. From 1999 to 2025, PWD has implemented a comprehensive watershed assessment strategy, integrating biological, chemical, and physical assessments to provide both quantitative and qualitative information regarding the aquatic integrity of the Philadelphia regional watersheds. This information was published in Comprehensive Characterization Reports (CCRs) and used to plan improvements to watersheds in the Southeast Region of Pennsylvania.

## Monitoring Timeline Strategy

Prior to the creation of PWD's Comprehensive Watershed Monitoring Program, baseline assessments were conducted in all Philadelphia regional watersheds to assess the degree, location, and type of impairments occurring within each system. Baseline assessments, encompassing benthic, fish, habitat, and discrete water quality monitoring, were routinely completed on a watershed within one year. With the addition of continuous and wet-weather water quality monitoring, periphyton assessments, and specialized physical assessment programs (e.g., Fluvial Geomorphologic (FGM) assessments), CCRs were typically accomplished on a two-year timeline.

PWD conducted benthic macroinvertebrate and physical habitat monitoring activities at 9 stream monitoring sites in fall 2024 **(Table 4)**.

As described in PWD's *Comprehensive Watershed Monitoring Program: Proposed Strategy 2010-2015*, the scale of watershed stressors is expansive. Therefore, PWD is focusing its monitoring efforts at maintaining a "sentinel" monitoring presence in each of the City's watersheds rather than dedicating monitoring efforts to individual watersheds. This regional monitoring approach has been greatly enhanced through a partnership with the United States Geological Survey (USGS). Continuous water quality data are collected from 11 USGS gaging stations, and quarterly baseflow water samples are analyzed for microbial and nutrient parameters of concern. PWD also continues to assess performance of stormwater BMP projects as they are constructed.

**Table 4: Overview of PWD Watershed Monitoring Activities 2010-2025**

| Watershed/Geographic Area | Activity | Period |
|---|---|---|
| PWD/USGS Gages | Continuous Water Quality Monitoring | 2010-2025 |
| PWD/USGS Gages | Quarterly Water Quality Grab Samples | 2010-2025 |
| Philadelphia Area Watersheds | Stormwater BMP Monitoring | 2010-2025 |
| Philadelphia Area Watersheds | Stream Restoration Project Monitoring | 2010-2025 |
| Cobbs Creek Watershed | Watershed-wide Comprehensive Assessment | 2012-2013, 2021 |
| Tookany-Tacony/Frankford Watershed | Watershed-wide Comprehensive Assessment | 2013-2014, 2022 |
| Wissahickon Creek Watershed | Tributary Assessment | 2014-2015, 2023 |
| Wissahickon Creek Watershed | Watershed-wide Comprehensive Assessment | 2015-2016, 2024 |
| Pennypack Creek Watershed | Tributary Assessment | 2016-2017 |
| Poquessing Creek Watershed | Watershed-wide Comprehensive Assessment | 2018-2019 |
| Schuylkill River Watershed | Tributary Assessment | 2019 |

## Monitoring Timeline

As described in the *Comprehensive Watershed Monitoring Program: Proposed Strategy 2010-2015*, PWD's current proposed strategy for watershed assessments includes a less intense, but ongoing monitoring effort within each watershed, primarily through a partnership with the USGS. It should be noted that although the monitoring plan nominally covers 2010-2015, the assessments of the Wissahickon, Pennypack and Poquessing watersheds are continuations of that plan and are thus included here. Currently, PWD is focused on monitoring efforts to evaluate the performance of stormwater BMPs and restoration projects. Allowing 10 years before watershed reassessment will potentially allow for a greater number of projects to be implemented.

The proposed strategy for watershed assessments includes resuming watershed-scale bioassessment activities at several stations within targeted watersheds **(Table 5: Proposed Watershed Monitoring Timeline 2010-2025)**. These watershed scale reassessments should complement the "adaptive management" approach favored by the integrated watershed management plan implementation process and allow for the locations and methods of assessment to be changed, depending upon the number of projects implemented and their spatial distribution within the watershed. It is hoped that these data will be useful as a long-term record of water quality changes in the region, more appropriate for assessing the goals of a citywide distributed green infrastructure program than an approach that focuses on individual watersheds.

**Table 5: Proposed Watershed Monitoring Timeline 2010-2025**

| Watershed | BMP Monitoring | Quarterly WQ Grab sampling | Continuous WQ Monitoring | Annual WQ Summary | Targeted Bioassessment | Targeted Bioassessment Data Analysis |
|---|---|---|---|---|---|---|
| **Cobbs** | 2010-2025 | 2010-2025 | 2010-2025 | 2010-2025 | 2012, 2021 | 2012-2013, 2022 |
| **Tacony-Frankford** | 2010-2025 | 2010-2025 | 2010-2025 | 2010-2025 | 2013, 2022 | 2013-2014 |
| **Wissahickon** | 2010-2025 | 2010-2025 | 2010-2025 | 2010-2025 | 2014-2016, 2023-2024 | 2014-2016, 2023 |
| **Pennypack** | 2010-2025 | 2010-2025 | 2010-2025 | 2010-2025 | 2016-2018 | 2016-2018 |
| **Poquessing** | 2010-2025 | 2010-2025 | 2010-2025 | 2010-2025 | 2018 | 2018-2019 |

## Water Quality Sampling and Monitoring

### *Guiding Principles of Urban Water Chemistry Assessment*

PWD's water quality assessment strategy has been designed to facilitate separate analyses of dry weather (i.e., baseflow) and wet weather water quality conditions. This program has evolved over time, as personnel and technological advancements have improved our abilities to collect more data from an increasing number of sampling locations in a more efficient manner. Automated sampling has greatly increased the temporal resolution of stormwater sampling at multiple sampling locations for a single storm event.

To comply with the State-regulated stormwater permit obligations, PWD worked with USGS to record continuous water quality data at 10 gage stations in the Philadelphia region from July 2024 through November 2024 and March 2025 through June 2025. Four types of sampling were performed as discussed below. Parameters were chosen based on state water quality criteria, or because they are known or suspected to be important in urban watersheds.

### *Discrete Water Chemistry Assessment*

Each USGS/PWD cooperative monitoring gage site was sampled once during the course of a few hours, to allow for travel time and sample processing/preservation. Samples are collected during dry weather and parameters were chosen based on the conclusions from baseline sampling that indicated dry weather problems are primarily related to bacteria and nutrients. Results of samples collected to date are presented in **Appendix F – PWD Quarterly Dry Weather Water Quality Monitoring Program.** Previous annual reports describe PWD's extensive surface water grab sampling efforts dating back to 2002.

Boat run grab samples were not collected in FY25. PWD has collected 24 samples from the Schuylkill River and 49 samples from the Delaware River by boat since 2011. Results from quarterly dry weather grab sampling thus far are generally similar to data collected during the CCR data collection periods.

### *Continuous Water Quality Assessment*

Each USGS/PWD cooperative monitoring gage site records water quality data for dissolved oxygen, temperature, flow, pH, and specific conductance. Selected locations are also instrumented for turbidity, precipitation, and photosynthetically active radiation (PAR). These data are made available to the public in near real-time on the internet at https://www.usgs.gov/centers/pa-water/science/philadelphia-water-resources-monitoring-program. The monitoring results from FY25 are presented in **Appendix G – PWD-USGS Cooperative Water Quality Monitoring Program Annual Summary**.

Long-term continuous monitoring for TMDL compliance and building a long-term water quality data record for the aforementioned watersheds continued in FY25 through the partnership with the USGS. Results from City-wide continuous monitoring thus far are generally similar to data collected during the CCR data collection periods. For this reason, PWD will re-evaluate whether additional water quality sampling is needed to characterize water quality in targeted watersheds on a case-by-case basis. Continuous water quality instruments will also be utilized in evaluating the performance of certain stormwater BMPs and assessing conditions in tidal portions of the Schuylkill and Delaware Rivers as well as Frankford Creek.

### *Groundwater Monitoring*

A city-wide groundwater level monitoring network provides long-term monthly data documenting current water levels and trends in groundwater elevations throughout the City, helping to track the impacts of widespread implementation of stormwater management practices (SMPs) and global climate change. Data from the groundwater monitoring network may be used to calibrate a Philadelphia groundwater model and update the USGS groundwater contour map of Philadelphia (Paulachok 1984).

PWD and USGS identified existing wells that would be suitable for the network and obtained permission for site access. Once wells were identified and accessible, well condition and suitability for inclusion in the monitoring network were investigated by continuous water level monitoring and remote video camera inspection when accessible. Wells that met acceptance criteria were added to the monitoring network. After examining readily available information about existing wells, PWD elected to drill additional wells to provide better spatial distribution of wells in the monitoring network. Status of the groundwater monitoring network and a summary of data collected through June 30, 2025, are presented in **Appendix H – PWD/USGS Groundwater Monitoring Program**.

### *Biological Monitoring*

The biological monitoring protocols employed by PWD are based on methods developed by the US EPA (Barbour et al. 1999) and the PADEP. These procedures are as follows:

- Rapid Bioassessment Protocol III (Benthic Macroinvertebrate Sampling)
- Periphyton Assessment (Algae Monitoring)

### *Macroinvertebrate Assessments*

As described in the PWD *Comprehensive Watershed Monitoring Program: Proposed Monitoring Strategy 2010-2015*, PWD's approach is intended to be a compromise, recognizing not only the benefits of

collecting data from randomly selected sites but also the importance of maintaining a monitoring effort at consistent locations over time. This plan is based on a similar monitoring program that USGS has implemented in Chester County (Reif 2002, Reif 2004). The plan reflects the workforce constraints of collecting and processing samples with the PADEP Instream Comprehensive Evaluation (ICE) protocol. It is hoped that this approach will achieve some of the benefits of a randomized approach, while providing periodic reevaluation of the watersheds required to inform the watershed planning process and comply with environmental mandates **(Table 6: Proposed Benthic Invertebrate Monitoring Timeline 2011-2025).**

**Table 6: Proposed Benthic Invertebrate Monitoring Timeline 2011-2025**

| Period | Monitoring Activity (number of samples*) |
|---|---|
| 2011 | USGS gage samples (9); Randomly selected sites (16) |
| 2012 | Cobbs Creek (6**); USGS gage samples (9); Random (10) |
| 2013 | Tookany/Tacony Creek (10**) USGS gage samples (9); Random (6) |
| 2014 | Wissahickon Creek Tributaries (15); USGS gage samples (9); Random (1) |
| 2015 | Wissahickon Creek (10**); USGS gage samples (8); Random (4) |
| 2016 | Pennypack Creek Tributaries (11**); USGS gage samples (9); Random (5) |
| 2017 | Pennypack Creek (12**); USGS gage samples (9); Random (4) |
| 2018 | Poquessing Creek (12**); USGS gage samples (9); Random (4) |
| 2019 | Schuylkill River Tributaries (3); USGS gage samples (8); Random (3) |
| 2020 | USGS gage samples (6); Random (2) |
| 2021 | Cobbs Creek (6**); USGS gage samples (9); Random (7) |
| 2022 | Tookany/Tacony Creek (10**); USGS gage samples (9); Random (6) |
| 2023 | Wissahickon Creek Tributaries (15); USGS gage samples (9); Random (1) |
| 2024 | USGS gage samples (9) |
| 2025 | USGS gage samples (9); Pennypack Creek Tributaries (11); Random (4) |

* Number of samples estimated, actual number of samples may vary

** Number of monitoring sites excludes 2 USGS gage sites in target watershed

During November 2024, PWD conducted Rapid Bioassessment Protocols (RBP III) at 9 (n=9) locations within Philadelphia area watersheds. Sampling was conducted at 9 USGS gages in the PWD/USGS Cooperative Monitoring program. These data are presented in **Appendix I – PWD Wadeable Streams Benthic Macroinvertebrate and Physical Habitat Assessments**. In spring 2025, PWD sampled nine USGS gages, 11 sites in the Pennypack Creek Watershed, and 4 randomly chosen sites.

### *Algae Assessments*

Chlorophyll-a measurements may be used to provide information for the parameterization of water quality models. In spring 2016, PWD began a pilot effort to collect continuous chlorophyll-a data at three USGS stations along the Delaware River: 01467200 (Ben Franklin Bridge), 014670261 (Delaware River near Pennypack Woods), and 01463500 (Trenton). In addition, PWD deployed two buoys in the Delaware River (at Pea Patch Island and upstream of the confluence with the Schuylkill River) from March-November. Sondes attached to these buoys monitored continuous chlorophyll-a levels. Bi-weekly grab samples were collected and analyzed at these locations to calibrate the sensors.

### *Physical Monitoring*

#### Physical Habitat Assessments

Habitat assessments are conducted along with benthic macroinvertebrate monitoring and thus the habitat assessment strategy is described under the heading **Biological Monitoring – Macroinvertebrate Assessments**, above. PWD assesses stream physical habitat condition using PADEP ICE protocols. In November 2024, PWD conducted physical habitat assessments at 9 USGS gages in the PWD/USGS Cooperative Monitoring program. These data are presented in **Appendix I – PWD Wadeable Stream Benthic Macroinvertebrate and Physical Habitat Assessments**.

#### Fluvial Geomorphologic (FGM) / Infrastructure Analysis

FGM studies establish the physical attributes of the stream, identify areas of concern, and provide recommendations for rehabilitation of the stream corridors and floodplains. To date, FGM analysis has been conducted on the Darby-Cobbs, Tookany/Tacony-Frankford, Wissahickon, Pennypack, and Poquessing Creeks. Analysis was conducted to characterize channel morphology, disturbance, stability, and habitat parameters as well as to provide a template for hydrologic and hydraulic modeling and serve as a baseline for assessing channel bank and bed changes. Data provided from the FGM analyses will also serve to develop reach rankings within each watershed to prioritize restoration strategies. In FY25, designs were advanced for several stream restoration and riparian infrastructure protection projects throughout Philadelphia's watersheds. Of these, one project was completed, and construction of another project was initiated. These projects will reduce streambank erosion, improve aquatic habitat, and protect critical infrastructure in the stream corridor. For more information, please refer to **Appendix P – FY25 Ecological Restoration Projects.** Planning studies are also being developed by a dedicated stream restoration planning group to identify and prioritize stream restoration and infrastructure protection project opportunities throughout the city's watersheds.

### *Summary of Monitoring Locations*

Biological, physical, and chemical monitoring locations are based on three criteria: 1) appropriate habitat heterogeneity; 2) access availability; and 3) proximity to USGS stream gaging stations and PADEP 305b monitoring sites. In general, the number of monitoring sites is proportional to the size of the drainage and the watershed's link magnitude (i.e., number of 1st order streams). Maps of assessment sites by watershed and program (biological, chemical, or physical) are available as GIS data.

### *Quality Assurance/Quality Control (QA/QC) and Data Evaluation*

PWD has planned and carried out an extensive sampling and monitoring program to characterize conditions in Philadelphia's watersheds. Sampling and monitoring follow the Standard Operating Protocols (SOPs) and Quality Manual as maintained by PWD's Bureau of Laboratory Services (BLS). These documents cover the elements of quality assurance, including field and laboratory procedures, chain of custody, holding times, collection of blanks and duplicates, and health and safety.

They are intended to help the program achieve a level of quality assurance and control that is acceptable to regulatory agencies. More information regarding SOPs for chemical and biological assessments is available from BLS.

### c. Inventory of Point and Non-Point sources

At the end of FY25, there were 135 NPDES permitted dischargers in Philadelphia County, as shown in **Appendix J – NPDES Industrial Stormwater Permitted Sites – Philadelphia County**. This listing was downloaded from the PADEP Environment Facility Compliance Tracking System (eFACTS). The eFACTS website can be accessed through the following link: http://www.ahs.dep.pa.gov/eFACTSWeb/default.aspx.

PWD is also involved in developing estimates of non-point source pollutants. The results of this analysis are described in the hydrologic models in **Section G - Assessment of Controls** on page 38.

### d. Preliminary problem assessment

CCRs were completed for the Wissahickon (2007), Pennypack (2009), and the Poquessing (2010) Creek Watersheds. These reports include analysis of data collected over the monitoring period and present a characterization of problems within the watershed. The reports for each watershed are available to the public through the internet at the following address: http://water.phila.gov/reporting/watershed-plans-reports/.

## Step 2. Watershed Plan Development: Permit issuance through end of Year 4

For information on the status of the Act 167 plans, please refer to the CSO Annual Report **Table 12 - Planning by Watershed** on page 41. Please refer to the City's Watershed Plans at the following address: https://water.phila.gov/reporting/watershed-plans-reports/. The Wissahickon Act 167 Plan can be found here https://water.phila.gov/wp-content/uploads/files/wissahickon-act-167-plan.pdf.

## Step 3. Watershed Plan Implementation and Performance Monitoring: Permit issuance through expiration

### a. Dry Weather Water Quality and Aesthetics

#### Operate the Defective Lateral Program

Over the last fiscal year, PWD has continued to successfully operate its Defective Lateral Program. A detailed discussion of this program is provided within this report in **Section F.3 - Detection, Investigation, and Abatement of Illicit Connections and Improper Disposal** on page 17.

#### Debris removal from waterways impacted by storm water discharges

PWD continues to employ the Waterways Restoration Team (WRT) to remove debris and conduct small scale stream restoration projects within the city's waterways. Please refer to the CSO Annual Report **Section II.F – NMC 6 - Control of Solid and Floatable Materials in CSOs** on page 16 for information about debris removal from waterways impacted by storm water discharges.

#### Lincoln Drive sewer relining

PWD completed the Lincoln Drive sewer relining in 2004. Additional information on this project was reported previously; please refer to Section F.2.3.a.iii on page 261 of the FY10 CSO-Stormwater Annual Report.

## Healthy Living Resources

### *Develop integrated storm water management plans*

PWD developed integrated stormwater management plans for all the City's watersheds. Please refer to the CSO Annual Report in **Section III.C.3.7 - Basin-Specific Stormwater Management Plans (ACT 167)** on page 47 for an explanation of the City's watershed stormwater management plans.

### *Assess the benefits of implementing a Natural Stream Channel Design (NSCD) and effectiveness of the NSCD restoration approach*

PWD employs natural stream channel design (NSCD) and associated stormwater management BMPs to improve the health of aquatic communities in receiving waters with degraded flow and habitat alterations due to stormwater runoff. PWD has conducted several projects that have been designed with NSCD that implement a targeted approach to stream restoration to optimize capital funds and ecological uplift. PWD's stream habitat restoration program integrates environmental stressor reduction and streamside sewer asset protection and/or relocation.

As each of PWD's NSCD projects are constructed, PWD realizes the importance of the extensive monitoring and O&M that accompanies such projects. Each project provides the opportunity to learn about what techniques do and do not work in their respective hydrologic and hydraulic regimes. To assess the effectiveness of these NSCD projects, PWD conducts post implementation monitoring at each site that includes the measurement of relevant biological, habitat, and physical parameters to be used in comparison to pre-construction conditions. Additional information on NCSD stream restoration projects is contained in **Appendix P – FY25 Ecological Restoration Projects**.

PWD has also designed and implemented three stormwater treatment wetlands facilities to remove pollutants and mitigate peak flows, while providing aesthetic and ecological benefits. These projects are:

- Saylor's Grove (Construction Completed in 2006)
- Wise's Mill (Construction Completed in 2012)
- Cathedral Run (Construction Completed in 2012)

In total, these three facilities receive and treat stormwater from more than 300 acres of the MS4 service area. These projects were completed as part of PWD's compliance with the Wissahickon Sediment TMDL Implementation Plan. PWD submitted a Wissahickon Siltation TMDL Implementation Plan Update and a Wissahickon Siltation TMDL Monitoring Report (with appendices) in March 2018. PWD staff maintain these project sites as needed. Additional information on these wetlands is provided in **Appendix P – FY25 Ecological Restoration Projects**.

## Wet Weather Water Quality and Quantity

### *Implement several BMP projects*

PWD and its partners have implemented many BMP projects throughout the city including GSI, stream restoration, and wetland creation projects. For more information refer to **Section F.5.c Applications/Permits** on page 26 of this report. For a complete listing of both completed and current GSI projects in the combined sewer system (CSS), please refer to the **Appendix A - Green City, Clean Waters FY25 Annual Report**.

### *Monitor three demonstration BMPs*

PWD is committed to ensuring stormwater BMPs owned and operated by the City are maintained. This commitment is often evaluated through monitoring of these sites. PWD is currently monitoring multiple stormwater BMP project types – for example, stormwater tree trenches, stormwater planters, and porous pavement – and continues to develop and improve monitoring protocols. Monitoring activities for PWD's green stormwater infrastructure projects during FY24 are documented within **Appendix A - Green City, Clean Waters FY25 Annual Report Section: Appendix 4 - GSI Monitoring Status Report**. PWD has detailed activities conducted during FY25 for PWD's stream restoration, and wetland creation; please refer to the **Natural Stream Channel Design (NSCD)** section above.

## F.3 Detection, Investigation, and Abatement of Illicit Connection and Improper Disposal

Since 1994, The City of Philadelphia has operated the Illicit Discharge Detection & Elimination (IDDE) program. Identification, abatement and prevention of illicit discharges spans across several units and teams within the City and Philadelphia Water Department (PWD). While these activities are performed by multiple teams, they are interdependent on one another and function simultaneously. In 2020, PWD formed a working group to review and assess the current program for improvements and workflow efficiencies.

The Industrial Waste Unit (IWU) is responsible for inspecting all MS4 outfalls during dry weather and collecting samples if flow is present at the outfall. These samples are then analyzed by PWD's Bureau of Laboratory Services (BLS) for the presence of fluoride and total fecal coliform. PWD uses these sampling results to identify priority outfall sheds for investigative trackback efforts. This report historically focuses on priority outfall sheds described in the 1998 COA and the 2005 MS4 permit, however, PWD has been proactively investigating additional priority work areas based on the current best available data and that work is included in this report as well.

PWD operates the defective connections group (DCG), a team tasked with identifying defective laterals in the MS4. This work is generally informed by the results of IWU's dry weather outfall sampling and referrals. DCG typically works its way up a sewershed, starting at the outfall, to determine which blocks have potential issues with dry weather discharge. DCG can identify defective laterals by conducting dye testing at fresh air inlets along with testing fixtures at individual properties. Once a cross connection is identified, the case is referred to PWD's Plumbing Repairs Unit (PRU) which takes the appropriate steps to abate the cross connection.

In addition to the cross-connection trackback and repair program, the City works in parallel to abate other potential sources of illicit discharge. For example, sewer chokes may cause capacity and overflow issues where storm and sanitary sewers interact. Correction of such issues is another way PWD works to abate illicit discharge into receiving waters. While infrastructure maintenance contributes to the City's overall IDDE strategy, this section focuses on reporting on progress made through the cross-connection identification and repair program.

## a. Prevention of Illicit Discharges

### Sewer and Lateral Inspections

The City requires plumbing permits and inspections of the plumbing work performed for connections to the municipal sewer system. PWD reviewed and inspected 2006 new sewer and storm connections during FY25. This number reflects all new connections & repairs inspected in both the CSO as well as the MS4 including abatements but does not include any work done by the PRU related to Help Loans / Cross Connections. A single project or permit may also have one connection or multiple connections.

## b. Investigation of Illicit Discharge Sources

### Stormwater Outfall Dry Weather Inspections

The City maintains a stormwater outfall inspection program in compliance with the MS4 permit. All 434 of the City's permitted stormwater outfalls are scheduled to be inspected by the IWU at least once each permit cycle. Those with dry weather flow are sampled for fecal coliform and fluoride analysis. The results of these samples are reported on a quarterly basis and summarized in this annual report. During FY25, 131 outfall inspections were conducted, and 57 samples were taken due to observed dry weather flow as part of the permit inspection program.

**Table 7: Stormwater Outfall Inspection Program – 5 Year Summary**

| | Permit Inspection Program | | Priority Outfall Program | |
|---|---|---|---|---|
| **Fiscal Year** | **Inspections** | **Samples** | **Inspections** | **Samples** |
| 2021 | 262 | 126 | 42 | 39 |
| 2022 | 77 | 31 | 41 | 35 |
| 2023 | 74 | 33 | 46 | 36 |
| 2024 | 41 | 31 | 46 | 19 |
| 2025 | 131 | 57 | 42 | 34 |
| **Total** | **585** | **278** | **217** | **163** |

### Priority Outfall Closure Testing

Investigation will continue within each priority outfall area (sewershed) until the priority outfall status may be removed. During FY25, none of the priority outfalls were authorized to be removed from the list by PADEP.

### Rank the MS4 outfalls according to their priority for corrective actions

PWD maintains a stormwater outfall monitoring system in compliance with the MS4 permit issued by the PADEP. Samples are collected for outfalls that have dry weather flow and analyzed for fecal coliform and fluoride. Priority outfalls have been established through the 1998 Stormwater Consent Order and Agreement and internally, additional areas of focus have been added to maintain progress in the screening, testing and abating program and for efficient crew deployment. Priority Outfalls are sampled on a quarterly basis. Refer to **Appendix O – FY25 MS4 Outfall Inspections** for FY25 priority outfall summaries.

### Investigate dry weather flow to identify sewer lateral defects

During FY25, the DCG performed 493 complete dye tests with 38 defective connections found and 95 abatements completed. Details of FY25 activities are listed below.

**Table 8: Defective Connections Program – FY25 Summary**

| | Jul1-Sep30 | Oct1-Dec31 | Jan1-Mar31 | Apr1-Jun30 | FY25 Total |
|---|---|---|---|---|---|
| Completed Tests | 173 | 64 | 115 | 141 | **493** |
| No Cross Connections | 164 | 51 | 111 | 129 | **455** |
| Cross Connection Identified | 9 | 13 | 4 | 12 | **38** |

Reports of potential dry weather discharge from the stormwater system are also investigated, primarily through the Industrial Waste and/or Sewer Maintenance units. During FY25, 23 incidents were investigated. For details, refer to **Appendix L – Sanitary Infiltration Events** during FY25.

The DCG Field Investigation SOP was updated in March 2017. A copy is available upon request.

## c. Abatements

### Written notice about sewer lateral defects

The Plumbing Repair Unit handles customer communications (through letters, telephone, or site visits) and is responsible for the abatement of the defects identified.

### Abatements of Cross Connections

Corrections of defective connections are confirmed to ensure that the ultimate discharge to the receiving waters does not contain sanitary waste. Details of 102 abatements and costs are listed below.

**Table 9: Defective Connection Abatements – FY25 Cost Summary**

| # Cross Connections Abated | | | Total Cost of Abatements |
|---|---|---|---|
| **Residential** | **Commercial** | **Internal** | |
| 77 | 24 | 1 | $929,557.02 |

### Residential Properties Cross Connections Abatement

During FY25, 77 residential abatements were completed at a cost of $909,983.52. 1 internal cross connection property was abated with a cost of $450.

### Commercial and Industrial Properties Cross Connections Abatement

During FY25, 24 commercial abatements were completed at a cost of $19,123.5.

### Defective Connections Abatement Schedule

All defective connections are required to be abated within 120 days of discovery, in compliance with the MS4 permit.

### Defective Connections Abatement Confirmation Tests

All abatements completed during FY25 were tested to confirm that the abatement was properly completed.

### e. Defective Connection Program Reporting

#### Illicit connection program quarterly report

Defective Lateral Quarterly Reports are submitted four times a year to PADEP as part of the reporting requirements of the City of Philadelphia NPDES MS4 Permit No. PA 0054712. The report covers three-month periods starting in January, April, July, and October which are submitted no later than 45 days from the end of the reporting period. The quarterly reports were submitted as required during FY25.

#### Illicit connection program quarterly report contents

The report content within the Illicit Connection Program quarterly reports has been updated to more accurately reflect the work performed in FY25.

## F.4 Monitor and Control Pollutants from Industrial Sources

### a. Applications/Permits

The City can obtain information about NPDES permits/discharge from industries if they contribute stormwater into the City's sewer system. Industries that contribute stormwater directly into a waterway or discharge non-industrial waste into the system usually coordinate directly with the PADEP. A list of NPDES permits that involve stormwater associated with industrial activities in the city were obtained from the PADEP's website and are listed in **Appendix J – NPDES Industrial Stormwater Permitted Sites**.

### b. Inspections

#### *Industrial inspections*

The Philadelphia Local Emergency Planning Committee (PLEPC) is the entity tasked with meeting the responsibilities of SARA Title III.

As part of the MS4 permit requirement, the City is required to perform a stormwater inspection at all SARA Title III facilities located in the MS4 each fiscal year. In FY25, PWD conducted stormwater inspections at 158 out of 159 SARA Title III facilities located in the MS4. One location could not be inspected due to access restrictions at the Philadelphia International Airport.

#### *Industrial waste inspection forms*

The Industrial Waste Inspection Form was updated in 2006 to include a stormwater inspection section. A copy of the form can be found in previous reports; please refer to Appendix O of the CSO-Stormwater FY09 Annual Report.

### c. Monitoring/Enforcement

#### *Industrial DMR submission*

When necessary, the City shall request Discharge Monitoring Reports (DMR) or additional sampling from the PADEP for surrounding industries to ensure compliance with NPDES effluent limitations.

### *NPDES permits enforcement*

Should PWD personnel observe a violation of NPDES permit terms and conditions, PWD will report the violation immediately and notify PADEP, on a case-by-case basis.

## F.5 Monitor and Control Stormwater from Construction Activities

Stormwater runoff is a concern both during construction and post-construction. Within the City's development review process, PWD is provided the authority to regulate the runoff from earth disturbance activities of 15,000 square feet or more to improve water quality. Additionally, post-construction stormwater management plan review extends beyond peak rate control and encompasses water quality and water quantity technical requirements for more frequent storm events. Efforts continue to be focused on improving plan review for both Erosion & Sedimentation (E&S) as well as post-construction stormwater management. The following sections document the progress made so far in terms of stormwater runoff from construction activities including the collaboration between the Philadelphia development community, multiple City Departments, and State agencies.

During FY25, PWD performed numerous tasks in direct compliance with the NPDES MS4 Permit as well as tasks that support the ongoing growth of the stormwater management program for development construction activities. Some of the FY25 activities include the following:

- Continued coordination efforts with Philadelphia Licenses and Inspections (L&I) regarding permit review and issuance for development projects applicable to the Stormwater Regulations. At a minimum, the L&I issuance of Zoning, Demolition, Site, and Building permits was coordinated appropriately between the two agencies. L&I supports PWD in enforcement measures through the issuance of Stop Work Orders and withholding Certificate of Occupancy permits for sites that are non-compliant. PWD continues to serve as a reviewing entity in L&I's online permit program, eCLIPSE, by providing pre-requisite signoff on applicable permits. Applicants no longer have to visit PWD offices in order to obtain sign-off, thus streamlining the permitting process. As of August 1, 2023, certificate of occupancy is now held on all building permits for regulated stormwater projects. The hold on the permit completion associated with issuance of the certificate of occupancy remains in place until the project has satisfied all requirements for closeout including resolution of all construction violations, payment of all review fees, completion of Final Inspection and report, execution and recording of the Operations & Maintenance Agreement, and submission of a compliance Record Drawing.
- Continued coordination with the PADEP Southeast Regional Office Waterways and Wetlands Program through regular project communication and periodic meetings with PADEP and Southeast Region Conservation District staff. The periodic meetings provide a platform to discuss regional and district updates, permitting services and projects, and other topics. PWD also regularly participated in pre-application and project meetings with PADEP staff and applicants to discuss upcoming projects and active projects. In FY25 PWD and PADEP also actively coordinated on several enforcement cases and performed joint site inspections.
- Scheduled and held coordination meetings with local universities and other large landowners to discuss upcoming or current development projects as well as identify ways to strengthen communication and streamline the review and post-construction inspections process. Additionally, projects in enforcement are discussed, deadlines are communicated, and guidance is provided to bring projects back into compliance.

- Continued to implement erosion and sediment (E&S) compliance as an element of all active construction inspections by ensuring appropriate controls are in place throughout construction activity. Potential E&S issues or violations are documented as part of an inspection report provided to the on-site representative. The reports identify the required corrective actions, and active construction inspectors will return to the site to verify compliance. E&S violations may trigger active construction enforcement actions such as a Stop Work Order and fine for illicit discharge, requiring continued coordination through L&I.
- Continued to update website content to provide clear and accessible resources to the applicant to support quality submittals and efficient reviews. In FY25 PWD continued the process of migrating web content from a separate plan review website to the main PWD website https://water.phila.gov/.
- Continued to review projects applying for stormwater-based zoning incentives including Philadelphia's Green Roof Density Bonus, which was incorporated into the Zoning Code in 2015. This bonus offers exceptions to certain residential density rules for development projects that include a green roof. In 2018, the bonus was expanded to allow eligibility for existing buildings undergoing renovation or expansion. The green roof must meet PWD's requirements and be approved by PWD before the bonus can be awarded. In FY25, PWD approved six projects citywide as eligible to apply for this bonus.
- Continued to attend bi-monthly Business Industry Association (BIA) meetings for the Government Affairs/Fix It Philly subcommittee. In these meetings, representatives from the development community including developers, architects, and engineers come together with City agency representatives from PWD, L&I, Planning, and Streets to discuss policy and legislation impacting development in Philadelphia to ensure a transparent and efficient development process.
- PWD continues to conduct reviews of stormwater management plans and maintain the website to allow online submittal of plans and requests for pre-application meetings.

A summary of plan review activities city-wide in FY25 is presented in **Table 10** on page 23.

### a. Construction Site Runoff Control

PWD reviews and approves E&S Plans, along with PCSMPs, for all development sites disturbing more than 15,000 square feet of earth citywide. For E&S plans, PWD follows policies and practices as provided within the PADEP E&S Control Manual. PWD conducts coordinated reviews with the PADEP for projects disturbing more than one acre of earth.

Site inspections of E&S controls are conducted on a reoccurring basis and in response to any received complaints during active construction. The purpose of reoccurring inspections is to monitor E&S controls on projects where construction and earth moving activities are active, and to require site operators to maintain E&S controls as needed. PWD inspects controls such as, but not limited to, rock construction entrances, silt fencing, inlet protection, stockpile location and protection, and concrete washouts. During an inspection, the inspector communicates with the site representative and requests to see a copy of the on-site E&S Plan. Photographs are taken documenting site conditions. An inspection report detailing any non-compliance items is generated and distributed to the site representative and then maintained as part of PWD's electronic project file. Failure to adhere to the requirements in the

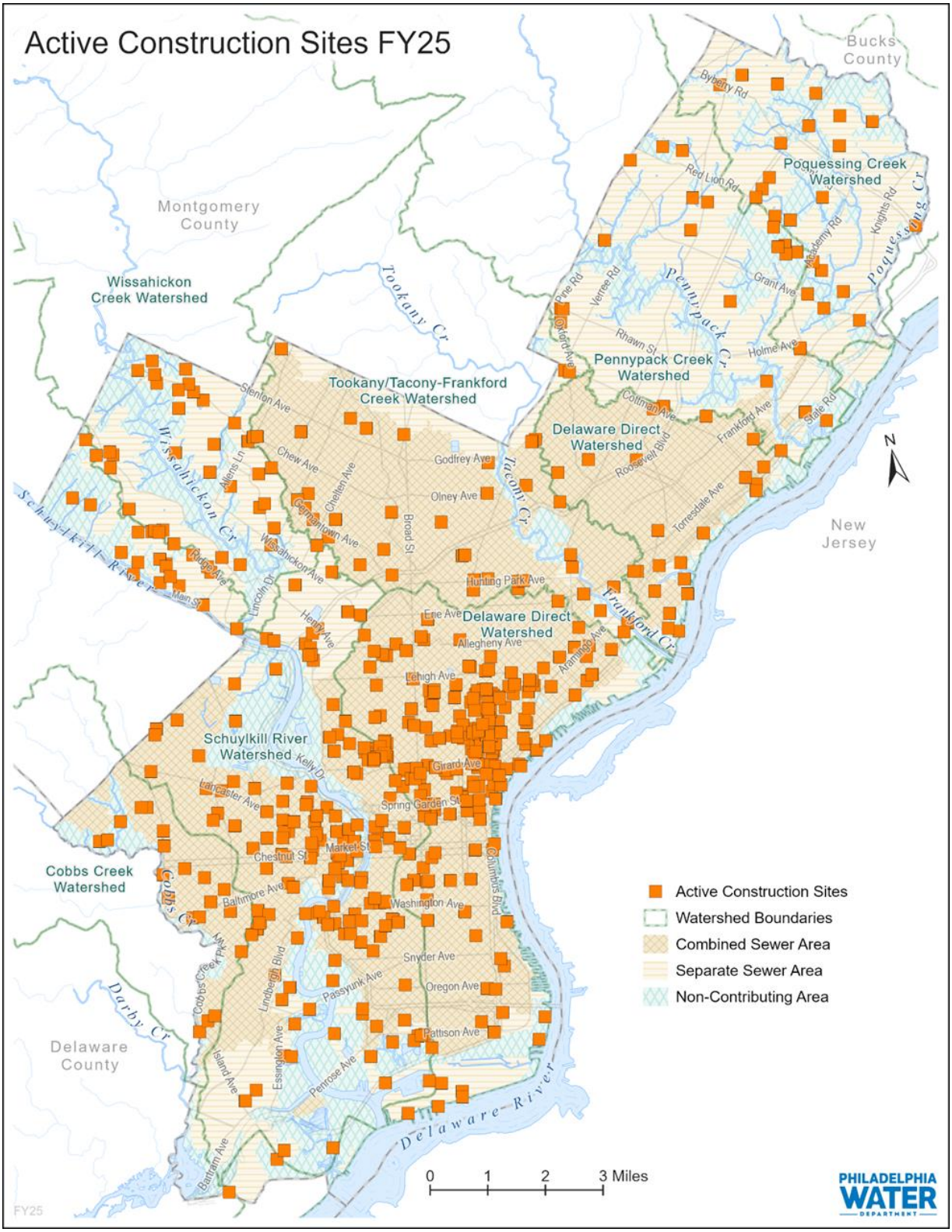
inspection reports can result in an NOV or a Stop Work Order. For more information regarding enforcement actions, see **Section F.5.e** on page 28.

The sites visited cover all of Philadelphia including both separate storm sewer areas and combined sewer areas as depicted in **Figure 2** on page 25.

**Table 10: FY25 Summary of Plan Review Activities**

| | *Jul. '24* | *Aug. '24* | *Sep. '24* | *Oct. '24* | *Nov. '24* | *Dec. '24* | *Jan. '25* | *Feb. '25* | *Mar. '25* | *Apr. '25* | *May '25* | *Jun. '25* | *FY25 Total* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Conceptual Review Stage** | | | | | | | | | | | | | |
| Approvals | 10 | 3 | 10 | 6 | 4 | 9 | 5 | 17 | 11 | 4 | 5 | 3 | 87 |
| Rejections | 26 | 19 | 20 | 24 | 26 | 23 | 37 | 31 | 24 | 29 | 23 | 27 | 309 |
| Reviews | 41 | 25 | 33 | 32 | 33 | 34 | 44 | 54 | 41 | 38 | 32 | 31 | 438 |
| New Project Submittals | 21 | 25 | 14 | 29 | 22 | 23 | 22 | 23 | 22 | 30 | 23 | 30 | 284 |
| Average Review Time (days) | 4.0 | 3.0 | 4.2 | 4.2 | 3.6 | 5.1 | 7.7 | 2.9 | 2.3 | 3.4 | 2.0 | 3.5 | 3.8 |
| **Post Construction Stormwater Management Plan Review Stage** | | | | | | | | | | | | | |
| Technical Approvals Issued | 4 | 4 | 11 | 9 | 8 | 3 | 1 | 3 | 5 | 6 | 5 | 5 | 64 |
| Rejections | 33 | 38 | 24 | 32 | 24 | 24 | 28 | 24 | 28 | 27 | 28 | 30 | 340 |
| Full Technical Reviews | 65 | 66 | 49 | 64 | 53 | 43 | 37 | 38 | 49 | 52 | 61 | 49 | 626 |
| New Project Submittals Received | 17 | 24 | 13 | 21 | 12 | 17 | 24 | 15 | 18 | 28 | 21 | 22 | 232 |
| Average Number of Reviews per Approval | 4.3 | 4.3 | 5.2 | 4.4 | 5.3 | 5.7 | 6.0 | 5.3 | 5.0 | 5.8 | 6.4 | 4.8 | 5.2 |
| Average Approval Time (days) | 166 | 207 | 304 | 308 | 386 | 218 | 225 | 1084 | 270 | 405 | 218 | 247 | 336 |
| Acres of Earth Disturbance Approved | 128.9 | 5.1 | 17.4 | 74.9 | 89.2 | 2.5 | 1.4 | 9.4 | 13.8 | 37.4 | 34.5 | 5.8 | 420.4 |
| Acres of Green Roofs Approved | 0.0 | 0.5 | 0.0 | 0.2 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.2 | 1.8 |
| Acres of Porous Pavement Approved | 0.1 | 0.1 | 0.5 | 0.1 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.1 | 0.0 | 1.2 |
| **PADEP Reviews** | | | | | | | | | | | | | |
| New Coordinated Reviews | 3 | 6 | 2 | 15 | 4 | 13 | 17 | 5 | 6 | 9 | 10 | 8 | 98 |
| **Erosion and Sedimentation Plan Review** | | | | | | | | | | | | | |
| Defer to PADEP | 0 | 1 | 2 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 2 | 9 |
| Approved | 3 | 3 | 7 | 8 | 6 | 8 | 3 | 2 | 5 | 7 | 4 | 4 | 60 |
| Rejected | 11 | 18 | 8 | 12 | 7 | 5 | 4 | 5 | 8 | 7 | 13 | 10 | 108 |
| Not Applicable | 14 | 16 | 6 | 14 | 6 | 11 | 21 | 10 | 11 | 22 | 14 | 19 | 164 |
| **Total Inspections** | | | | | | | | | | | | | |
| New Sites Inspected | 18 | 22 | 18 | 39 | 21 | 29 | 36 | 46 | 39 | 39 | 79 | 302 | 688 |
| Total Inspections | 266 | 353 | 287 | 351 | 290 | 393 | 452 | 408 | 545 | 587 | 533 | 482 | 4947 |
| Active Construction Inspections at Project Sites with MS4 Sewers | 90 | 116 | 73 | 95 | 72 | 74 | 69 | 83 | 77 | 99 | 90 | 106 | 1,044 |
| Post Construction Inspections at Project Sites with MS4 Sewers | 5 | 2 | 2 | 2 | 2 | 0 | 2 | 5 | 3 | 6 | 3 | 4 | 36 |
| Total Inspections at Project Sites with MS4 Sewers | 95 | 118 | 75 | 97 | 74 | 74 | 71 | 88 | 80 | 105 | 93 | 110 | 1,080 |
| Active Construction Inspections at Project Sites with Combined Sewers | 124 | 171 | 162 | 206 | 166 | 264 | 323 | 272 | 401 | 421 | 368 | 296 | 3,174 |
| Post Construction Inspections at Project Sites with Combined Sewers | 12 | 7 | 13 | 6 | 9 | 18 | 10 | 13 | 12 | 17 | 18 | 21 | 156 |
| Total Inspections at Project Sites with Combined Sewers | 136 | 178 | 175 | 212 | 175 | 282 | 333 | 285 | 413 | 438 | 386 | 317 | 3,330 |

**Figure 2: FY25 Active Construction Sites**



## b. Post-Construction Stormwater Management in New Development and Redevelopment

Adopted in January 2006, the Philadelphia Stormwater Regulations enabled PWD to review plans for both new and redevelopment sites throughout the City to ensure water quality and quantity were part of the proposed management plan. Since 2006, PWD has collected and synthesized feedback from the development community regarding improvements to the stormwater plan review program. Updates are made to the Stormwater Regulations to improve and strengthen PWD's stormwater programs and stay current in policy procedures. The Philadelphia Stormwater Management Regulations are available online at http://www.phila.gov/water/PDF/PWDregCH6.pdf.

## c. Applications/Permits

Across the entire city during FY25, 284 unique projects were submitted to PWD for conceptual review through the program's website. PWD approved PCSMPs for 64 projects citywide during FY25. It should be noted that this number does not include plans re-submitted for review, some of them multiple times. The distribution of development projects by drainage type and watershed that submitted post-construction stormwater management plans for review are presented in **Table 11** and **Table 12**. Locations of new project submissions and technical approvals are shown in **Figure 3** on page 25.

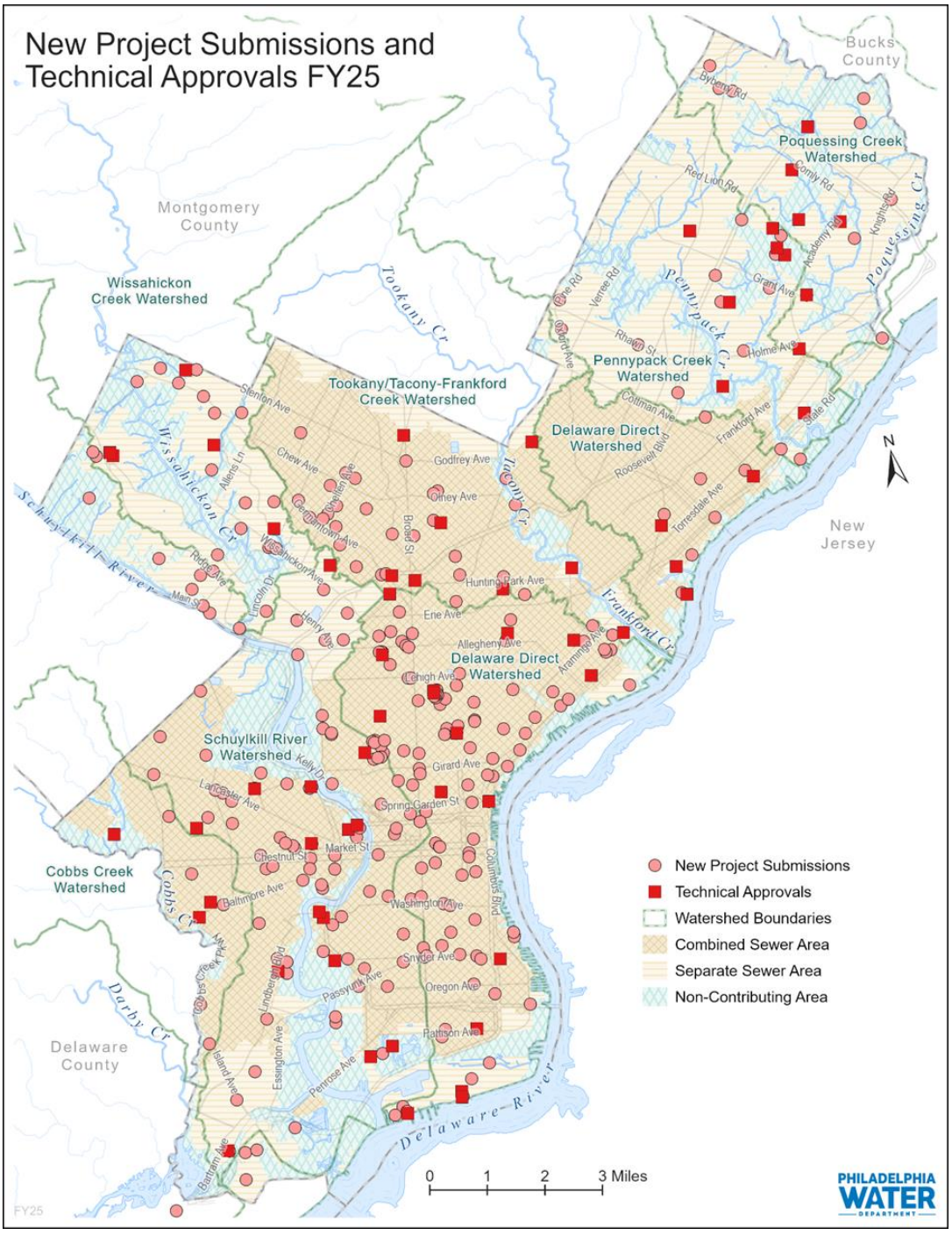
**Table 11: Approved PCSMP Location Summary by Contributing Area**

| Drainage Type | Number of Locations |
|---|---|
| Combined Sewer Area | 31 |
| Non-Contributing Area | 17 |
| Separate Sewer Area | 16 |
| **Total** | **64** |

**Table 12: Approved PCSMP Location Summary by Watershed**

| Drainage Watershed | Number of Locations |
|---|---|
| Delaware River | 18 |
| Poquessing Creek | 8 |
| Pennypack Creek | 5 |
| Schuylkill River | 17 |
| Tacony/Frankford Creek | 8 |
| Wissahickon Creek | 5 |
| Darby-Cobbs Creek | 3 |
| **Total** | **64** |

**Figure 3: Locations of New Project Submissions and Technical Approvals**



## d. Inspections

PWD requires a pre-construction meeting prior to commencement of earth moving activities for projects applicable to post-construction stormwater management requirements. In FY25, PWD conducted 70 pre-construction meetings citywide for development projects. During the pre-construction meeting, both the approved E&S Control Plan and the approved PCSMP are discussed with the construction manager and property owner representative. Post-Construction Stormwater Management inspections are discussed in **Section F.8** on page 29.

The active construction inspection program continued in FY25 by conducting inspections of stormwater structural controls on applicable land development sites. PWD stormwater inspectors conducted site visits for 564 active sites citywide during FY25. Technical plan review staff members were also on-site, as needed, to verify construction of the SMPs was completed in accordance with the approved plan. In the case that concerns are identified regarding SMP installation during construction, the technical plan reviewer will discuss the necessary corrective actions for the project with the PWD inspector, as well as the project's engineer and construction manager.

PWD stormwater inspectors observe the installation of SMPs and erosion and sedimentation controls during active construction for development sites. During FY25, PWD was able to maintain its presence in the field by conducting 1044 active construction inspections on 106 sites in the separate sewered areas of the city. Many sites were visited multiple times to ensure compliance with appropriate requirements **(Table 13)**.

**Table 13: Active Construction Inspection Site Location Summary**

| Drainage Watershed | Number of Locations |
|---|---|
| Combined Sewer Area | 391 |
| Non-Contributing Area | 66 |
| Separate Sewer Area | 106 |
| **Total** | **563** |

## e. Monitoring/Enforcement

As part of the 2017 EPA AOCC CWA-03-2017-0146DN, PWD was required to develop an SOP to detail enforcement procedures for responding to E&S control issues when established enforcement methods do not result in compliance. In FY25, PWD continued to use the Repeat Offenders SOP as a guide when implementing enforcement action.

The SOP outlines Notice of Violations (NOVs) which includes a deadline for compliance and reinspection. If a project remains out of compliance, PWD may coordinate with the L&I to issue a Stop Work Order. Starting in August 2023, PWD began holding all Certificates of Occupancy for newly approved projects until all construction close-out documentation is provided. In some cases, projects may fall out of compliance after enforcement actions were previously taken during the construction period.

PWD issues an NOV to sites when significant or persistent issues with E&S controls or the installation of required SMPs are not addressed in a timely manner. In FY25, PWD issued an NOV to 17 projects under construction citywide. Of those projects, 13 were issued fines for sediment discharge into PWD's sewer system. In addition, PWD issued follow-up NOV notices to the projects to ensure full compliance. Of the

17 active NOVs issued in FY25, 15 have been partially or fully resolved bringing the site back into compliance. The major compliance issues for active construction projects include improper installation or absence of E&S controls, the contractor not following the approved plans, and non-permitted construction activity.

### f. NPDES Permit Requests

PWD continues to provide Conservation District functions for the City of Philadelphia for NPDES Construction Permitting Requirements and Chapter 102 Regulations relating to Erosion and Sedimentation Pollution Control. PWD continues to receive notifications and coordinate reviews for permitting. For more information and full details on this process described in previous reports, please refer to Section F.5.f NPDES Permit Requests on page 204 of the CSO-Stormwater FY12 Annual Report.

### g. Stormwater BMP Handbook and Construction Site BMP Sediment & Erosion Control Checklist

The Philadelphia Stormwater Management Guidance Manual Version 3.0 represents a comprehensive revision released in conjunction with the updated Stormwater Regulations on July 1, 2015. Since 2015, the Manual has received three subsequent updates; Version 3.1 released on July 2, 2018, Version 3.2 released on October 1, 2020, and version 3.3 released on July 1, 2023. Primarily a web-based resource, this version of the manual is organized to reflect the life cycle of a development project from initial submission through operation and maintenance. In addition to providing context on the regulatory framework for stormwater management in the city, the manual builds upon over a decade of program growth and technological advancements to streamline the technical design requirements and clearly document the plan review process for applicants. The PWD leveraged feedback from design engineers to clarify existing content, provide new resources, and develop a fully searchable and accessible online manual. The manual is located on the web at https://water.phila.gov/development/stormwater-plan-review/manual/.

## F.6 Watershed, Combined Sewer Overflow (CSO), and Source Water Protection Programs

PWD, through the Planning and Environmental Services Division (PESD), strives to reduce the amount of point and non-point discharges entering regional waterways and improve the environmental health of the region so that all waters are fishable and swimmable. The main programs within PESD, in addition to the Stormwater Management Program, that work together to improve regional ecological health, water quality, and sustainability are Watershed Planning, Source Water Protection Program, CSO Management Program, and Wetlands Mitigation Registry. The Watershed Planning Program is presently explained in detail throughout **Section III.C of the CSO Annual Report** on page 40.

#### *Source Water Protection Program*

The Source Water Protection Program embodies PWD's multi-barrier approach to ensuring the safety and quality of Philadelphia's drinking water. Drinking water sources consist of the Schuylkill and Delaware Rivers. The Source Water Protection Program conducts planning, research, and on-the-ground projects to better understand and address priority sources of water quality impairment in the 10,000 square mile upstream area encompassing Philadelphia's source watersheds. The staff works closely with PWD water treatment plant operators to anticipate and respond to emergencies and challenges to conventional treatment technology. PWD continues to implement the Source Water Protection Program

and facilitates engagement with upstream partners. For more information on this program, please refer to the following sections:

- Schuylkill Action Network
  Please refer the CSO Annual Report **Section II.G.2 – Schuylkill Action Network** on page 24 for information about this topic.
- Delaware Valley Early Warning System
  Please refer the CSO Annual Report **Section II.G.2 – Delaware Valley Early Warning System** on page 27 for information about this topic.
- RiverCast
  Please refer the CSO Annual Report **Section II.G.2 – Philly RiverCast** on page 24 information about RiverCast.

*Combined Sewer Overflow Management Program*

The Combined Sewer Overflow management program works to implement technically viable, cost-effective improvements and operational changes that mitigate the impacts of combined sewer overflows. Please refer to the **FY25 CSO Annual Report** and **Appendix A – Green City, Clean Waters FY25 Annual Report** for additional information.

*Watershed Mitigation Registry*

Please refer to **Section F.2.Step 3.a – Access the benefits of implementing a Natural Stream Channel Design (NSCD) and effectiveness of the NSCD restoration approach** on page 14 for information about the Watershed.

## F.7 Miscellaneous Programs and Activities

### a. Pollutant Migration/Infiltration to the MS4 System

PWD responds to all notifications and reported complaints of liquid, solid, or gaseous pollutants within Philadelphia. A list of all pollutant migration events in the MS4 section of the city that occurred in FY25 is presented in **Appendix M – FY25 Pollutant Migration/Infiltration**.

### b. Public Education and Awareness

*Public Education Literature*

The City takes an active role in providing information and education to the public and our community. Several events and programs are conducted each year in which the City provides literature to the public. Please refer to the CSO Annual Report **Section II.G – Pollution Prevention** on page 24 for information about this topic.

### c. Pesticides, Herbicides, and Fertilizer Controls

*Integrated Pest Management protocol*

The majority of the City does not use pesticides or conduct any practices that require the use of the Integrated Pest Management (IPM) protocol. The City is currently focusing on invasive plant management through the use of herbicide to remove invasive plants.

The Philadelphia Health Department uses larvicides, Bacillus Sphaericus (brand name Vectolex), Methoprene (Altosid), and Spinosad (Natular), to prevent mosquito breeding. These larvicides are approved for use in stormwater catch basins and are applied as such. The IPM protocol is followed when using the larvicides by inspecting the catch basins before treatments, using the least toxic or non-toxic product, and submitting a request for repairs when necessary. PWD and the Department of Public Health work closely together. This collaboration has resulted in the Health Department receiving maps with locations of the City's storm water inlets and surface basins. This allows PWD improved access to refer concerns of pests in the water collections systems for treatment by Health Department staff.

All associated Philadelphia Health Department staff are certified pest control applicators in accordance with the Pennsylvania Department of Agriculture. To maintain this certification, on-going training is required. The Philadelphia Health Department holds several on-site trainings per year for staff.

#### *Education materials to private pesticide users*

The Philadelphia Health Department provides educational materials to organizations, companies, and/or individuals upon request. Often private exterminators, especially companies that handle pest control work for City facilities, request this information since most buildings in the City contract out for pest control work through the individual Departments. Health Department Sanitarians (Inspectors) have this information available to provide to the public.

### d. Snow Management Plan

The City faces winter storms that bring potentially dangerous accumulations of ice, sleet, freezing rain, and snow. To mitigate the impact of these storms, the Streets Department prepares a Snow and Ice Operations Plan which provides a detailed outline of the City's response to adverse winter weather conditions. The plan includes the salt storage locations at the six Highway Districts and outlines the city's salting policy. The Snow and Ice Removal Operations Plan content did not change for FY25. The **City of Philadelphia Snow and Ice Operations Plan Winter** is available upon request.

### e. Municipal/Hazardous Waste, Storage, Treatment, and Processing Facilities

The City's one active waste transfer station, Northwest Transfer Station, is located at Domino Lane and Umbria Street in the Roxborough section of the city. Due to the existing facility's progressive deterioration a new waste transfer facility has been designed on a different portion of the same property and the construction project is underway with substantial completion scheduled for October of 2025. The City intends to begin transferring waste and recycling with the new facility by December of 2025 pending official completion of construction and final approval of the permit from PADEP. The approved design includes stormwater management best practices such as an oil/water separator connected to all trench drains in the facility and three lined rain gardens to manage stormwater runoff on-site.

## F.8 Best Management Practices (BMPs)

### a. Submit Storm Sewer Discharge Ordinance

The authority for PWD to adopt stormwater regulations is found within Title 14 Zoning and Planning Code under §14-704(3) Stormwater Management. PWD maintains Stormwater Regulations as Chapter 6 of PWD's regulations. These regulations were originally adopted in 2006, with a significant update made in July of 2015. Most recently, the regulations were updated in July 2022, to clarify the Flood Control

and Channel Protection requirements, as well as updates to the O&M Agreement section. These regulations require stormwater management on development projects that exceed an earth disturbance threshold of 15,000 square feet. For more information regarding PWD's regulation updates within the last year, see **Section F.5.b. – Post-Construction Stormwater Management in New Development and Redevelopment** on page 24.

PWD has added documentation to a website (https://water.phila.gov/development/stormwater-plan-review/) to provide the development community a means of accessing the most recent stormwater management information.

## b. Commercial and Residential Source Controls

### *b.i. Mingo Creek Surge Basin*

Given notice to proceed in 2023, a capital construction project for the rehabilitation of Mingo Creek is now more than 60% complete. The rehabilitation project is in response to flooding in the Eastwick area of Philadelphia because of the Cobbs Creek overtopping. For more information on this project, please refer to Section F.8.b.i on page 214 of the CSO Stormwater FY12 Annual Report.

### *b.ii. Existing privately owned structural controls*

To ensure ongoing SMP maintenance of private facilities, PWD continues to utilize four means: executing Operation & Maintenance Agreements, maintaining comprehensive operations and maintenance information, conducting post-construction maintenance inspections, and enforcing on non-compliant projects.

**An Operation and Maintenance agreement** between the property owner and PWD is executed and recorded against the property as part of the PWD post-construction stormwater management plan process. These agreements outline the SMP(s) on the private site and stipulate maintenance requirements. The agreements also include language granting PWD the authority to inspect on-site SMPs and even perform maintenance on behalf of the property owner if necessary.

**PWD maintains comprehensive operations and maintenance information** geared toward the private development community in Chapter 4 of the Philadelphia Stormwater Management Guidance Manual. Each SMP section provides guidance on SMP maintenance activities, including a recommended SMP maintenance schedule and maintenance factsheets, which are available as a resource for the property owner. In addition, as part of the post-construction stormwater management plan review process, projects must create an SMP Maintenance Guide which is detailed in Appendix G of the Manual. The SMP Maintenance Guide is unique to each project and includes a site map and Maintenance Schedule Form for each SMP to allow the owner to track maintenance activities for the site. Please see the links below for more information:

- Philadelphia Stormwater Management Guidance Manual, Chapter 4
- Philadelphia Stormwater Management Guidance Manual, Appendix G

**Post-construction maintenance inspections** of private facilities were conducted throughout the reporting period. PWD utilizes visual inspections and specialized inspection techniques to assess the condition of private SMPs. PWD conducts post-construction maintenance inspections on all applicable private facilities. As projects are identified for maintenance inspection, the PWD post-construction

inspection staff contacts the property owner to schedule the inspection. PWD prefers to conduct the inspection with the property owner or their maintenance representative present so any concerns or questions can be verbally discussed. After inspection, a post-construction inspection report is generated and issued to the property owner. Any required corrective actions are identified in the report along with a deadline for resolution. After actions are taken, PWD re-inspects the property, and compliant sites are closed until their next routine inspection date. Inspectors will provide guidance to the property owner to ensure corrective actions are resolved. In addition to visual inspections, PWD has identified other effective methods and technologies, including closed-circuit television, surveys of critical system elevation points, confined space, pole-mounted camera photography, and wet weather inspections. PWD will continue to evaluate and refine post-construction inspection protocols. In FY25, PWD performed 36 post-construction inspections in the MS4 and 202 post-construction inspections citywide.

**Referral for enforcement** is pursued for severe violations or if compliance is not achieved within the timeframe specified during the post-construction inspection process. PWD typically initiates an enforcement case with the issuance of a post-construction enforcement letter to the property owner if a PCSMP is found to be insufficiently maintained. In some circumstances, PWD may initiate enforcement with the issuance of a Notice of Violation (NOV). The notifications include a description of issues identified and a timeline to achieve compliance. The City is authorized to compel maintenance of SMPs on private property under the Philadelphia Code and PWD Regulations. Development sites that are subject to the regulations, as well as properties that have grant-funded SMPs, are required to maintain the SMP(s) to function as designed. If initial notification is unsuccessful at bringing action from the property owner, PWD can compel compliance through several enforcement tools, including NOVs (if enforcement is initiated with a PEL), suspension of applicable stormwater billing credits, fines, court action, and/or a nuisance abatement and lien by the City. In FY25, PWD successfully resolved 19 enforcement cases consisting of 41 SMPs citywide. Of the enforcement cases closed, escalated enforcement tools were utilized consisting of twelve NOVs, with eight escalating to fines. PWD will continue to work with property owners to ensure that SMPs are inspected and maintained in accordance with Regulations and recorded O&M agreements.

### c. Development Plans Review

PWD and the City Planning Commission provide review of drainage plans for new and redevelopment. The drainage plans address both flood control and potential stormwater pollutants under the authority of the Philadelphia Code. Please refer to **Section F.5 – Monitor and Control Stormwater from Construction Activities** on page 20 for additional information.

### d. Street Cleaning Program

During FY22, the Streets Department developed the Mechanical Street Cleaning Pilot Program as part of the City of Philadelphia's commitment to reduce trash and litter conditions in the City's most vulnerable communities. Mechanical street cleaning is an effective tool in reducing litter from city streets and preventing trash and debris from entering the water systems. A Phase II of the Pilot Program was launched in 14 neighborhoods identified through the Litter Index as having the highest concentration of litter. These areas have been identified as requiring additional City services to supplement cleaning efforts in the area. The program runs from early May through November 30th to coincide with the warmer-weathered months and decrease the potential for snow and ice. Some streets in each pilot area receive sidewalk cleaning maintenance along with mechanical broom cleaning weekly. In FY25, 35,818 miles were swept, and 1,550 tons of material were removed from the streets.

Since FY14 the Streets Department has initiated monthly street sweeping operations on routes adjacent to the Tookany/Tacony Frankford Creek, Wissahickon Creek, Cobbs Creek, and Pennypack Creek watersheds within the city.

In addition, the Center City District (CCD) and University City District (UCD) conduct sidewalk cleaning. Heavily trafficked commercial streets and areas receive daily sweeping with pans and brooms and mechanical cleaning. Other areas with a high density are cleaned at least twice weekly with machines (some areas are cleaned daily). Sidewalks also get a monthly power washing, except in winter, to remove accumulated stains, gum, and grime. In FY25, 88,312 miles of streets were mechanically cleaned. Through a variety of fee-for-service arrangements, CCD crews clean several adjacent commercial and residential areas and provide a 24-hour deployment to clean the three and a half mile long underground subway concourse and Center City's two regional rail stations.

### *Public awareness of litter*

Waste and litter, illegal dumping, and graffiti negatively impact the beauty and cleanliness of Philadelphia's rights-of-way, waterways, and other public and private spaces, and landfilling waste creates emissions that contribute to climate change. To accomplish the goals of reducing waste and litter in Philadelphia, the office of clean and green continues to maintain an interdepartmental effort to combat litter, enhance the cleanliness of streets and public spaces, and with a goal of making Philadelphia the safest, cleanest, greenest big city in the nation.

The City's recycling program operates on an enormous scale, collecting over 80,000 tons of recycling. Recycling right saves resources. It's good for the environment, reduces litter and pollution, and keeps our communities clean and healthy. Improper recycling is putting trash in your recycling, where it ruins good materials, damages equipment, and endangers workers. It only takes one bad bin to ruin a truckload of good recycling. Recycling is the law in Philadelphia. The Streets & Walkways Education and Enforcement Program (SWEEP) educates Philadelphia residents, businesses, and property owners about sanitation regulations and enforces code violations. SWEEP officers are trained, uniformed civilians. They educate local businesses and apartment managers about their responsibility for keeping their properties clean, work with communities on outreach efforts, patrol streets to enforce litter laws, issue warnings and citations.

The Philadelphia More Beautiful Committee (PMBC) works with registered block captains to keep City blocks clean and green. PMBC promotes and organizes clean-up events, provides block captains with cleaning tools, information, and guidance; supports and celebrates volunteer block captains. Together with 41,968 volunteers, PMBC cleans 6,042 blocks each year. PMBC also organizes neighborhood cleaning events citywide. Such cleaning efforts are bolstered every April by the Philly Spring Cleanup, a citywide event that kicks off the cleaning season uniting residents, civic organizations, businesses, and nonprofits to work together to remove litter, beautify blocks, spruce up shared spaces like parks, gardens, and recreation centers. Philly Spring Cleanup is Philadelphia's largest city-wide, single-day clean-up event. Since its 2008 launch, a total of 200,000 volunteers have removed more than 11.4 million pounds of trash and 950,000 pounds of tires from city streets at nearly 6,750 project sites. The results of the most recent event held on April 6, 2024 were not available at the time of reporting.

A BigBelly is an enclosed litter basket that often includes a recycling station. The Department of Streets installs BigBelly units on commercial corridors in high pedestrian areas to help reduce litter and provide

access to public recycling. Advertisements on BigBelly units help fund the program. There are about 500 BigBelly in Center City, and another 460 in other commercial districts throughout the city. The City of Philadelphia also implements a Community Cans Program that the partners with community organizations and businesses to place wire mesh litter baskets in designated locations along commercial corridors with a goal of reducing litter in Philadelphia neighborhoods.

## e. Animal Waste and Code Enforcement

### *Educational material regarding control of animal waste*

The Philadelphia Code and Charter Chapter 10.100 – Animals and Chapter 10.700 – Refuse and Littering address the proper clean-up of pet waste and applicable fines and penalties. In addition, signs advertising said penalties are displayed city-wide to prevent residents from violating this statute. The City of Philadelphia also provides the text of this code online at http://municipalcodes.lexisnexis.com/codes/philadelphia/.

PWD provides additional information on pet waste to the public including how it affects stormwater and why to pick it up through its website located at the following site: http://water.phila.gov/drops/dog-waste/

### *Dog Waste Control Program*

PWD's approach to address dog waste in Philadelphia focuses on partnerships with key dog-related organizations, including dog shelters, vet clinics, and animal nonprofits. In FY25, the program partnered with four dog clinics and shelters to distribute materials to current pet owners, including 600 educational postcards and 400 dog bag dispensers. PWD also partnered with ACCT Philly (The Animal Care and Control Team of Philadelphia) to provide 1,500 copies of a dog waste bill insert to include with dog licensing paperwork for all new dog owners within the City of Philadelphia. PWD worked with the Partnership for the Delaware Estuary (PDE) to create the 2025 dog waste education social media campaign, which reached over 35,000 accounts. Finally, PWD and PDE hosted the 2025 Spokesdog Competition which crowned Willow as the next canine representative for the Philadelphia Water Department; Willow will appear at in-person events and in educational campaigns to help further promote the message or proper dog waste control.

## f. Flood Management and Flood Control Devices

### *Structures built within the floodplain*

All development within the Special Flood Hazard Area (SFHA), which is identified on FEMA's Flood Information Rate Maps (FIRM's), is reviewed and approved per the City's codes and regulations found in both Zoning and Building codes. L&I will identify all City parcels within the SFHA, and upon an application submission, will determine whether the floodplain codes apply. If the development site itself is determined to be within the SFHA, structures built will be designed to an elevation of Base Flood Elevation (BFE) plus a safety factor of at least 18 inches. L&I will maintain records of compliance for all development located with the SFHA. Licenses and Inspections issued 838 permits in total, which includes separate building, mechanical/electrical/plumbing (MEP) permits, and alteration permits.

### *Evaluate new and existing structural drainage controls*

Our evaluation of structural drainage controls was discussed in further detail in **Section F.8.b.ii - Existing privately owned structural controls** on page 30 of this report.

Work is being completed in sections of the city that have chronic flooding to eliminate or reduce these occurrences; please refer to CSO Annual Report **Section II.B.3 – Flood Relief Project Summary** on page 8 for more information about the SFR projects and details on evaluating structural drainage controls.

*Streambank Restoration and Wetland Enhancement*

Please refer to **Section F.2.Step 3.a – Access the benefits of implementing a Natural Stream Channel Design (NSCD) and effectiveness of the NSCD restoration approach** on page 14.

## g. Sanitary Infiltration Controls

*Limit sanitary infiltration*

As part of the Cross-Connection Repair Program, PWD has conducted 1,984 abatements to correct cross -connection in sewer laterals since 1994; 102 abatements were completed in FY25. PWD also has in place twelve dry weather diversion devices which divert sanitary flow back into the sanitary sewer but still allow stormwater to pass through during wet weather events. PWD estimates that these abatements and dry weather diversion devices have prevented over 257.9 million gallons of contaminated flow from entering our waterways since the inception of the program and about 14.3 million gallons during FY25. Please refer to **Section F.3 – Detection, Investigation, and Abatement of Illicit Connection and Improper Disposal** on page 16 for more information on the Cross-Connection Repair Program.

In addition, as part of PWD's Sewer Maintenance Program, sewer lining is routinely conducted on both sanitary and storm sewers. Lining sewers helps to reinforce, seal, and rehabilitate the existing sewers, specifically preventing infiltration to allow the pipe capacity to be reserved for sanitary and storm flow. Apart from those being done under consent orders, there are several sewer lining projects in the city that originate from sewer maintenance issues like street cave-ins, depressions, backups, as well as outputs from sewer assessment meetings.

As a part of PWD's commitment to improvement of water quality and aesthetics in dry weather, large sewer lining projects were initiated on the intercepting sewers along the Tookany/Tacony-Frankford and Cobbs Creeks. Please refer to **Appendix A Green City, Clean Waters FY25 Annual Report Section 3.3 Interceptor Rehabilitation Program** on page 8 for more information on the interceptor relining project.

Construction of a storage tank upstream of relief sewer manhole R-20, located at Main Street and Shurs Lane, to capture and store excess flows was completed during November of 2013. The consent order requirement for sewer linings around regulator R-20 to reduce inflow and infiltration has been completed. Please refer to CSO Annual Report **Section III.B.1– Construction and Implementation of the Main and Shurs Off-line Storage Project** on page 38 for more information on the Main and Shurs Off-line Storage Project and efforts to reduce inflow and infiltration at R-20.

PWD constructed a parallel relief sewer in December of 2011 to eliminate overflows at manhole PC-30 as per a consent order issued by the PADEP. The overflows at PC-30 were caused by a combination of various factors which influence the hydraulic carrying capacity of the Poquessing Creek Interceptor during wet weather events. During FY25, there were zero overflow events at manhole PC-0030. Information regarding PC-30 monitoring and modeling data for overflow observation are submitted

monthly to PADEP. Please refer to CSO Annual Report **Section III.B.2 – New Capital Improvement Projects to be Included in LTCPU** on page 39 for more details on PC-30.

### *Investigate, remediate, and report sanitary infiltration*

PWD responds to all citizen complaints of liquid, solid, or gaseous pollutants within Philadelphia. A database called the Sewage Pollution Incident & Location Log (SPILL), which stores information about unintentional sanitary discharges including the date reported, problem location, spill type, description, and abatement date, is maintained. Detailed information on the events found on the SPILL database of reported sewage pollution incidents in FY25 are found within **Appendix L – FY25 Sanitary Infiltration Events**.

The following locations have been identified by the Department as locations suffering from chronic discharges of sanitary sewage to the storm sewer system and/or waterways. A description of the specific site issues and the status of remediation efforts is provided for each location.

#### *Neill Drive Pumping Station*

Historically, force main failures have occurred at the Neill Drive Pumping Station due to faulty fittings and plastic couplings. In FY25, one of three remaining fittings in the conduit malfunctioned and caused the force main to fail. Utilizing an emergency contractor, the department swiftly repaired the force main. While the incident resulted in a sanitary sewer overflow (SSO), the impacts were mitigated by the installation of hay bales downstream of the force main break. Once the SSO stopped, trash and debris were cleaned up, the areas of the stream impacted by the overflow were scrubbed, lime was spread, and the creek was flushed. In a subsequent effort to prevent future emergencies at the Neill Drive Pumping Station, PWD proactively initiated a project in FY25 to replace the two remaining fittings. Unfortunately, a sanitary sewer overflow occurred during one of the repairs, but the discharge amount was significantly less than past coupling failures. Future force main failures of this nature are not likely given that all of the faulty fittings and plastic couplings have now been replaced.

#### *Navy Yard Force Mains*

Issues with the force mains associated with Pump Station 603 in the Philadelphia Navy Yard have been ongoing for several years, and the Department saw significant progress in the necessary upgrade and rehabilitation of a portion of these mains in FY25. The force main and associated pumping station are integral in conveying sanitary flows out of the western area of the Navy Yard to the Southeast Water Pollution Control Plant.

***Pump Station 603***

In 2021, PNBC-603 experienced multiple force main breaks due to the corrosive effluent from PNCB-648 eroding the inner wall of the main. After years of recurring breaks, a two-phase project was initiated in 2021 to replace the force main with a corrosive resistant material. The first half of the project entailed replacing the main starting at the station and ending around 1000 ft west of Broad St. The construction of this project is complete, and the work was accepted by PWD construction on October 12, 2022. The second phase of the project is currently being expedited and includes replacing the rest of the main from the first phase to the discharge manhole near PNBC-796. Construction on the second phase of the project was given notice to proceed on January 23, 2025. In FY25, there were no SSOs due to the corrosion of the 8” force main.

***Pump Station 648***

Force main deterioration issues have been ongoing for several years at this location and the Department completed a major overhaul of Pump Station 648 (which discharges to Pump Station 603) and the cast iron force main in 2020. The project consisted of replacing the force main with high density polyethylene and all internal station piping, pumps, and fittings with stainless steel to help resist corrosion.

### *Hortter Street Sewer*

On December 13th, 2020, PWD responded to the fourth SSO along the 300 and 400 blocks of W Hortter Street in a four-year period. The Department has completed several CCTV inspections of sanitary and storm sewers in this street, with the most recent occurring in February 2019. The primary causes of the SSOs have been heavy debris accumulation and failures in the terracotta pipe sanitary sewer installed in the late 1800s, resulting in the restriction of flows and discharge through manholes or privately owned fresh-air-inlets. The Department has been able to respond to the SSO incidents by completing sewer flushing and cleaning activities and point repairs when necessary.

During FY25, PWD continued to monitor this location and no SSOs occurred at the Hortter Street sewer. Construction for the sewer reconstruction project started on 4/26/2022 and is substantially complete as of 8/23/2023.

### *Cresheim Valley Drive (CV-0145)*

PWD previously identified a hydraulic overload along a 1,000-foot section of separate sanitary sewer in the Cresheim Valley. A hydraulic model analysis revealed a portion of this system was hydraulically limited during wet weather events with a 1-year return interval. Pursuant to Chapter 94 reporting requirements, the PWD notified the PADEP of this restriction and submitted a Corrective Action Plan (CAP) as a component of its Chapter 94 Report for the 2020 calendar year. Construction of the new intercepting sewer began in November 2021, and the sewer has been in service since March 2022. The project replaced approximately 1,500’ of the former egg-shaped Cresheim Valley intercepting sewer and replaced it with 42” centrifugally cast fiberglass pipe that is watertight at all joints, connections, and manholes. This project successfully eliminated the hydraulic restriction that existed between manholes CV-138 and CV-137. PWD conducted post-construction monitoring of the former egg-shaped intercepting sewer to assess the suitability for abandonment and filling per the original project specifications. A partial bulkhead was constructed at CV-0128 on 11/15/2022 as PWD continued to monitor any potential flows in the former intercepting sewer. On 7/7/2023 clear water was observed behind the bulkhead, which was later determined to be groundwater infiltration. PWD decided to postpone the complete bulkheading of CV-0128 until drier conditions prevailed. Subsequently, on October 18, 2023, PWD finalized the full bulkhead installation on CV-0128.

### *On-lot septic/disposal system*

During FY25, no complaints of malfunctioning on-lot sewage disposal systems were received. Also, during FY25, ten (10) applications were submitted for the installation or repair of on-lot sewage disposal systems, and seven (7) permits were approved. In addition, 316 portable toilet permits were issued. PWD continues to support the inspection and remediation of these systems.

## h. Spill Prevention and Response

The City's response plan to respond to and contain harmful spills that may discharge to the municipal separate storm sewer system is managed by the Office of Emergency Management under the Hazardous Materials Response Plan.

To protect PWD's structures and treatment processes, PWD staff respond to oil and chemical spills and other incidents that have the potential to threaten the water supply or impact the sewer system, twenty-four hours per day, seven days per week. PWD responds to all incidents that can impact the sewer system or endanger PWD employees. This includes both the sanitary sewer system and the storm sewer system. PWD supervises cleanup activities and assesses environmental impact. PWD inspectors also investigate various other types of complaints. In FY25, 14 pollution migration events occurred. A list of all pollutant migration events in the MS4 section of the City that occurred in FY25 is presented in **Appendix M – Pollutant Migration/Infiltration**.

## i. Public Reporting of Illicit Discharges, Improper Disposal

The City encourages residents to report the occurrence of illicit discharges that may impact the sewer system and water bodies. To facilitate the timely reporting of such events, PWD operates a Municipal Dispatcher 24 Hours/Day, 7 Days/Week to handle reports from the public. In addition, a customer service hotline (215 685-6300) is also operated that provides the ability to connect to the dispatcher. This information is distributed in mailings, as well as online at http://www.phila.gov/water/contact_us.html.

Upon the reporting of such an incident, a PWD inspector is immediately dispatched to the site to investigate and determine the source of the discharge, as well as the extent of impact on the receiving water body. Each incident is logged into an electronic database that enables tracking of the details of each occurrence.

The PWD Customer Contact Center received 325,878 inbound phone calls in FY25. Currently PWD does not track phone calls specifically related to illicit discharges and improper disposals in the MS4 area, but instead tracks broader topics including sewage backup, flooding, street cave-ins, and water service disruptions.

### *Philly 311*

Philly311 was created to help eliminate the need to sort through the numerous phone numbers and hotlines available to contact the city government. A customer service specialist will connect the user to the information and services they may need either by calling 3-1-1, asking a question on the website, or through Twitter @philly311. A Philly 311 mobile app is available for iPhone, Android, or Blackberry devices to report issues such as graffiti, potholes, litter and more. For more information on uses of Philly311, please visit: http://www.phila.gov/311/. During FY25, Philly 311 transferred 3,509 non-emergency inlet and hydrant requests to Customer Service Call Center.

## j. Used Oil and Toxic Material Disposal

The City continues to facilitate the proper disposal of used oil and other toxic materials. This program includes collections events, distribution of educational materials, the operation of a website, and a hotline accessible to the public. The Philadelphia Sanitation Department hosts household hazardous waste (HHW) collection events for Philadelphia residents every year. The events provide an opportunity

for the public to drop-off household hazardous waste that is not collected curbside or through other routine disposal options. During FY25, Streets Department held seven (7) Household Hazardous Waste events resulting in contributions from at least 4,412 individuals and removing 345,788 lbs. of hazardous materials (Table 14). For more information on the hazardous waste program please visit: https://www.phila.gov/services/trash-recycling-city-upkeep/dispose-of-household-hazardous-waste/.

**Table 14: FY25 Household Hazardous Waste Collection Events**

| Date | Area | Address |
|---|---|---|
| Thursday, July 11, 2024 | Northeast Philadelphia | 8401 State Rd., 19136 |
| Saturday, September 14, 2024 | North Philadelphia | 2121 W. York St., 19132 |
| Saturday, October 12, 2024 | Southwest Philadelphia | 3033 S. 63rd St., 19153 |
| Saturday, November 2, 2024 | Port Richmond | 3901 N. Delaware Ave., 19137 |
| Saturday, April 7, 2025 | Northeast Philadelphia | 8401 State Rd., 19136 |
| Saturday, May 10, 2025 | West Philadelphia | 4804 Parkside Ave., 19131 |
| Saturday, June 14, 2025 | Northwest Philadelphia | 5201 Umbria St., 19128 |

### k. Storm Water Inlet Labeling/Stenciling

Since 2015, PWD's stormwater inlet labeling program has included watershed specific markers representing the seven watersheds in Philadelphia. Each marker features a unique color scheme and an animal native to its respective watershed. Storm drain marking kits are assembled and distributed to volunteers, both individually and through partnerships with community and environmental organizations; kits include enough supplies to mark 15 storm drains as well as educational tip cards to inform the public about how their actions can reduce stormwater runoff pollution. PWD continues to utilize its web-based marking app to track which storm drains are marked by volunteers.

In FY25, a total of 75 storm drain marking kits were distributed to volunteers leading to 774 storm drains being marked throughout Philadelphia. The Partnership for the Delaware Estuary led five storm drain marking events and presentations about the program and its connection to stormwater runoff. These presentations ranged from short five-minute flash talks to longer hour-long stormwater lessons. In total, 15 watershed, civic, and educational organizations were engaged with storm drain marking this year, both in the distribution of kits and the installation of markers.

# Section G Assessment of Controls

PWD has selected a set of effective post-construction stormwater management controls to address problems identified in the waterways and documented these controls in the Philadelphia Stormwater Management Guidance Manual. Philadelphia's stormwater regulations obligate all development projects subject to these regulations to implement the identified controls. The requirements of the stormwater regulations were developed through the Act 167 planning process in coordination with neighboring counties. The requirements are explained in detail in Section 1.2.1 of the Stormwater Management Guidance Manual and summarized below.

### *Water Quality*

The Water Quality requirement focuses on the removal of both runoff volume and pollutants and is similar to requirements in surrounding states and other major cities across the country. Because flow rates and velocities were identified as significant causes of aquatic ecosystem impairment, infiltration is emphasized as the preferred water quality management practice unless evidence is provided that it is infeasible on a particular site. Additional water quality benefits are provided, in part, by slowing water flow rate and allowing suspended solids and associated pollutants to settle.

The Water Quality requirement stipulates infiltration of the first 1.5 inches of runoff from all directly connected impervious area (DCIA) within the limits of earth disturbance. The initial 2006 regulations required 1.0 inch of runoff to be managed, based on water budget analyses and precedents for control of the 90th percentile event set by Maryland and other nearby states with similar climates. In 2015, this requirement was increased to 1.5 inches based on evidence provided by simulations showing that this level of control will further reduce the volume and flow rate of runoff to waterways.

### *Channel Protection*

Erosion of stream beds and banks caused by high volumes and velocities of urban runoff was identified as a significant contributing factor to aquatic ecosystem impairment in Philadelphia's stream systems. For this reason, a channel protection requirement was incorporated in the stormwater regulations. This requirement is based on the concept of effective channel forming discharge and is similar to precedents set by Maryland and other nearby states with similar climates and geology.

The Channel Protection requirement stipulates the detention and release of runoff from the one-year, 24-hour Natural Resources Conservation Service Type II design storm event for all DCIA within the limits of earth disturbance at a maximum rate of 0.24 cfs per acre of directly connected impervious drainage area in no more than 72 hours.

### *Flood Control*

Act 167 Plans identified peak rates of runoff as a contributing factor to out-of-bank flooding events in Philadelphia and surrounding counties. To address peak rate control, geographically specific requirements were incorporated in Philadelphia's stormwater regulations and manual.

The Flood Control requirement stipulates that a development project meet or reduce peak rates of runoff, as determined by its Flood Management District, from predevelopment to post-development conditions during certain storm events.

Directly Connected Impervious Area (DCIA) There are approximately 20.7 square miles of impervious area in the portion of the City that falls under the MS4 permit. Since July 2010, approximately 1.81 square miles (1,156 acres) of directly connected impervious area are tributary to completed or approved green stormwater infrastructure. This is approximately 8.7% of the impervious area.

# Section H Fiscal Resources

## Maintain adequate program funding

During FY25, the City provided fiscal resources needed to support operation and maintenance of the Stormwater Management Program. The budget for the upcoming FY26 budget is available upon request.

## Annually submit fiscal analysis

The conditions of the NPDES permit can be achieved through appropriate budget planning supporting the projects and assessments critical to a successful program. Any funding changes will be included as part of subsequent annual reports.

# APPENDIX A

# Green City, Clean Waters

## FY 2025 Annual Report

**Fourteenth Annual Report for the City of Philadelphia's Consent Order and Agreement on Green City, Clean Waters**

**Reporting period July 1, 2024 – June 30, 2025**

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**Submitted to**
**The Commonwealth of Pennsylvania**
**Department of Environmental Protection**
**And**
**The United States Environmental Protection Agency**

**By the City of Philadelphia Water Department**
**September 30, 2025**

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# Glossary of Acronyms

| | |
|---|---|
| AOCC | Administrative Order for Compliance on Consent |
| BOD | Biological Oxygen Demand |
| City | City of Philadelphia |
| CMP | Comprehensive Monitoring Plan |
| COA | Consent Order and Agreement |
| CSO | Combined Sewer Overflow |
| EAP | Evaluation and Adaptation Plan |
| FWWIC | Fairmount Water Works Interpretive Center |
| GA | Greened Acre |
| GIS | Geographic Information Systems |
| GSI | Green Stormwater Infrastructure |
| LTCPU | Long Term Control Plan Update |
| NASSCO | National Association of Sewer Service Companies |
| NPDES | National Pollutant Discharge Elimination System |
| O&M | Operation and Maintenance |
| PACP | Pipeline Assessment Certification Program |
| PADEP | Pennsylvania Department of Environmental Protection |
| PCSMP | Post Construction Stormwater Management Plan |
| PennDOT | Pennsylvania Department of Transportation |
| PP&R | Philadelphia Parks and Recreation |
| PSWMR | Philadelphia Stormwater Management Regulations |
| PWD | Philadelphia Water Department |
| SIUA | Soak It Up Adoption |
| SMP | Stormwater Management Practice |
| SRT | Simulated Runoff Testing |
| UUW | Understanding the Urban Watershed |
| US EPA | United States Environmental Protection Agency |
| WPCP | Water Pollution Control Plant |
| WQBEL | Water Quality-Based Effluent Limit |

# 1.0 Introduction

In 2011, the Consent Order and Agreement (COA) between the City of Philadelphia (City) and the Pennsylvania Department of Environmental Protection (PADEP), and in 2012 the Administrative Order for Compliance on Consent (AOCC) between the City and the United States Environmental Protection Agency (US EPA), formalized the regulatory approval of the *Green City, Clean Waters* program and amended the 2009 CSO Long Term Control Plan Update (LTCPU). This is the fourteenth Annual Report submitted under the requirements of the COA. Fiscal Year 2025 (FY25) covers the City's *Green City, Clean Waters* implementation progress activities that occurred between July 1, 2024, and June 30, 2025.

The Year 10 Evaluation and Adaptation Plan (EAP) submitted on May 30, 2022 to PADEP can be found at https://water.phila.gov/pool/files/gccw-year-10-eap.pdf. The Year 10 EAP provides a comprehensive assessment of program progress at the Year 10 milestone, including an assessment of compliance with Water Quality Based Effluent Limits (WQBEL) Performance Standards and an updated assessment of receiving water conditions. The FY25 COA Annual Report will focus on the progress accomplished in FY25.

## 1.1 Water Quality Based Effluent Limit Performance Standards

The Water Quality-Based Effluent Limits (WQBEL) performance standards are broken into incremental targets that must be achieved by the City every five years of the 25-year program. This annual report includes water pollution control plant and collection system improvements, interceptor lining, and greened acre (GA) interim progress towards the Year 15 WQBEL targets. Volume reduction and mass capture are only reported every 5 years with updated values to be reported in the upcoming Year 15 EAP. **Table 1: Water Quality-Based Effluent Limits** displays the cumulative progress achieved at Year 10 and includes the upcoming Year 15 (2026) WQBEL targets.

**Table 1: Water Quality-Based Effluent Limits**

| Metric | Units | Base Line Value | Cumulative Amount as of Year 5 (2016) | Cumulative Amount as of Year 10 (2021) | Year 15 WQBEL Target |
|---|---|---|---|---|---|
| **NE WPCP Improvements** | *Percent Complete* | 0 | Reported progress in Year 5 EAP | **Reported progress in Year 10 EAP** | To report progress in Year 15 EAP |
| **SE WPCP Improvements** | *Percent Complete* | 0 | | | |
| **SW WPCP Improvements** | *Percent Complete* | 0 | | | |
| **Miles of Interceptor Lined** | *Miles* | 0 | 7.5 | **9.2** | 14.5 |
| **Overflow Reduction Volume** | *Million Gallons Per Year* | 0 | 1,710 | **3,080** | 3,619 |
| **Total GAs** | *GAs* | 0 | 837.7 | **2,196** | 3,812 |
| **Equivalent Mass Capture *(TSS)*** | *Percent* | 62% | 70.5% | **77.5%** | Report value |

| Metric | Units | Base Line Value | Cumulative Amount as of Year 5 (2016) | Cumulative Amount as of Year 10 (2021) | Year 15 WQBEL Target |
|---|---|---|---|---|---|
| **Equivalent Mass Capture *(BOD)*** | *Percent* | 62% | 88.9% | **~100.0%*** | Report value |
| **Equivalent Mass Capture *(Fecal Coliform)*** | *Percent* | 62% | 72.0% | **77.1%** | Report value |

*BOD5 capture has met or exceeded the 85% equivalent mass capture. The amount of BOD5 captured has met or exceeded the load reduction that is associated with 85 percent capture volume treated using primary clarification and disinfection using the end-of-pipe treatment technology.

## 1.2 Green City, Clean Waters Green Infrastructure

Greened Acres (GA) are achieved through three implementation approaches: Public Retrofits, Private Development, and Incentivized Retrofits. **Table 2: Cumulative Greened Acres** displays the cumulative program progress at the end of Year 14 towards meeting the Year 25 GA target.

**Table 2: Cumulative Greened Acres**

| Implementation Approach | Cumulative Number of Projects (FY11-FY25) | Cumulative GAs (FY11-FY25) |
|---|---|---|
| Public Retrofits | 370 | 1,216 |
| Private Development | 597 | 1,163 |
| Incentivized Retrofits | 133 | 1,077 |
| **Total** | **1,100** | **3,456** |

It is important to note that project specific GA values are subject to change and do not remain constant over time. A project's GA value is calculated using the best available information based on phase and site conditions which can result in adjustments. The designed GA is established from final design drawings and is then informed and updated upon the completion of construction to produce an as-built GA value. The as-built value can be updated post construction as maintenance and monitoring data is gathered to create an as-maintained GA value when appropriate. The GA calculation method revision introduced in the Year 10 EAP and solidified in the FY22 COA Annual Report is another example of the dynamic nature of the GA metric. The Greened Acre calculation method revision was based upon applying a data-driven understanding of performance gained through 10 years of program implementation, data collection, and analyses to date. For more details, please see https://water.phila.gov/pool/files/gccw-year-10-eap.pdf.

The current greened acre calculation method now accounts for storage, infiltration, and slow-release processes where applicable, with the following formula:

$$Wd(in) = \frac{\left(V_{storage}(ft^3) + V_{infiltration}(ft^3) + V_{slow\ release}(ft^3)\right)}{DCIA(ft^2)} * 12\left(\frac{in}{ft}\right)$$

# 2.0 Implementation Tracking and Reporting

## 2.1 Green City, Clean Waters Program Tracking

Various databases track program implementation and support data requests for internal and external reporting. The Department continues to ensure proper programmatic alignment across the various source databases for metrics calculations and reporting.

**Table 3: FY25 Status Updates for Existing Databases and Systems**

| Existing Databases and Systems | Status |
|---|---|
| **PlanIT** | PWD's tracking system that stores information from site evaluations conducted on locations throughout Philadelphia. All sites must undergo an initial evaluation to determine the feasibility of green infrastructure before they can be transferred to CIPIT to begin design phase. In FY25, development of planning stage project tracking capabilities for Ecological Restoration Planning (ERP) team-initiated projects continued in earnest, with updates made to the mapping and data entry interfaces that support ERP workflows. Roll-out of ERP project tracking in PlanIT is anticipated in early FY26. |
| **GreenIT** | PWD's metrics tracking system for all public green stormwater infrastructure (GSI) projects. GreenIT tracks estimated, designed, built, and maintained compliance metrics. The GreenIT Data Entry Application is used to create metrics reports by consultants and staff that are directly uploaded to the GreenIT database. |
| **CIPIT** | CIPIT is PWD's Capital Program Information Tracking System. |
| **SPRITE Application** | PWD's tracking system that stores metrics and detailed SMP data for private development projects that are subject to the Philadelphia Stormwater Regulations, as well as voluntary stormwater management retrofit projects. The application is designed to track workflows related to reviews and inspections, including the status of conceptual and technical reviews, record drawing reviews, active and post-construction inspections, and active and post-construction enforcement. This application was recently developed to replace an antiquated system. The new app offers expanded functionality and accessibility for internal stakeholders as well as the Philadelphia development community and provides a system that will stay current with functionality and technology. |
| **Geographic Information System (GIS) Asset Tracking** | GIS is used to track the location of all PWD assets. This includes public retrofit, private development and incentivized retrofit SMPs. |
| **Maintenance Management Systems** | Inspection and maintenance activities for public green stormwater infrastructure are tracked in PWD's Cityworks work order management system. This system is linked to the City's GIS data and provides tools to track and manage work performed on other PWD assets such as fire hydrants, inlets, water mains, and sewers. |

## 2.2 Reporting Metrics

### Green Stormwater Infrastructure through Public Implementation

The information in GreenIT is used to produce compliance reporting outputs for the completed and planned public project tables in Appendices 1 and 2 of this report. The Public Completed Projects reporting format and metric definitions are described in Table 1 in **Appendix 1**. The Public Planned Projects reporting format is described in Table 1 in **Appendix 2**.

### Green Stormwater Infrastructure through Private Development

Information from the SPRITE application is used to produce reporting outputs for completed Private Development and Incentivized Retrofits project tables in **Appendix 3**. The reporting format is described in Table 1 in **Appendix 3**.

### Stormwater Management Practice (SMP) Types

SMP types used for public implementation are described in Table 2 of **Appendix 1** and SMP types used for private implementation are defined in Table 2 of **Appendix 3**.

# 3.0 Water Pollution Control Plant and Collection System Project Progress

## 3.1 Water Pollution Control Plant and Collection System Project Progress

Upgrades to increase the peak flow capacity at each of the City's Water Pollution Control Plants (WPCPs) were described in the Wet Weather Facility Plan (WWFP), submitted on June 1, 2016. During FY25, PWD has continued to work towards completing the projects committed to in the WWFP. The following sections present progress made on these projects during FY25. The *Green City, Clean Waters* WWFP can be referenced here: http://water.phila.gov/pool/Wet_Weather_Facility_Plan_website.pdf.

### 3.1.1 Northeast Water Pollution Control Plant (NE WPCP)

Within **Table 4**, the seven NE WPCP improvements committed to in the WWFP are listed with their required operation years, as approved by the PADEP. To date, five improvements have been completed, one is in construction and the final project is being further evaluated.

**Table 4: Status of Northeast WPCP Improvements**

| Northeast WPCP Improvements | Anticipated Completion | Project Status (FY25) |
|---|---|---|
| **Facility Improvements** | | |
| Remove Double Deck Effluent Channel in Final Sedimentation Tanks Set 2 | 6/1/2016 | Complete (FY16) |
| New (4 x 48") conduits from Preliminary Treatment Building to Primary Sedimentation Tanks Set 1 | 6/1/2016 | Complete (FY16) |
| High Flow Management System | 6/1/2021 | Complete (FY19) |
| Gravity Sludge Thickeners | 6/1/2021 | Complete (FY19) |
| Preliminary Treatment Building #2 | 6/1/2031 | In Construction |
| New Influent Baffles in Primary Sedimentation Tanks Set | 6/1/2031 | In Planning |
| **Operational Improvements** | | |
| Operate with minimal sludge blanket when Gravity Sludge Thickeners in service | 6/1/2021 | Complete (FY19) |

#### The Preliminary Treatment Building #2

PWD is upgrading the NE WPCP, located at the confluence of Tacony-Frankford Creek and Delaware River, with a new Preliminary Treatment Building (PTB) to increase treatment capacity. The new PTB eliminates some of the hydraulic constrictions which will increase the inflow into the NE WPCP. The primary benefit of this project is to reduce combined sewer overflow to the Tacony-Frankford Creek and improve water quality. The project will result in approximately 500-550 MG/year of CSO volume reduction. In FY25, construction efforts continued on the PTB and the associated grit facility. In October 2024, a crane being utilized collapsed and work at the site was temporarily shut down. Luckily no one was hurt, and a replacement crane was delivered. Despite some setback to the schedule throughout the year, concrete work on the base slab, walls, and columns for the PTB was completed. Similarly, concrete work on the associated grit facility and tanks progressed and waterproofing of the exterior of the facility is near completion. In FY26 construction efforts will focus on the connection to the headworks and installation of the grit clarifiers.

### 3.1.2 Southeast Water Pollution Control Plant

All Southeast WPCP improvement commitments in the WWFP were completed in FY16, meeting the required operation date of June 1, 2016. For more detailed information, please see the *Green City, Clean Waters* Wet Weather Facility Plan or the Year 5 EAP.

### 3.1.3 Southwest Water Pollution Control Plant

All Southwest WPCP improvement commitments in the WWFP were completed in FY16, meeting the required operation date of June 1, 2016. For more detailed information, please see the *Green City, Clean Waters* Wet Weather Facility Plan or the Year 5 EAP.

## 3.2 Philadelphia Collection System Improvements

Within **Table 5**, the three Collection System improvements committed to in the WWFP are listed with their required operation dates. Two of the improvements were completed, meeting the required deadlines. The other improvement identified is a study to evaluate CSO regulator capacities and identify improvements, if necessary. This study is ongoing and is anticipated to continue throughout the implementation of the LTCPU, as PWD is committed to maintaining and improving the efficiency of the collection system. Additional Collection System improvements are described below.

**Table 5: Status of Collection System Improvements**

| Collection System Improvements | Anticipated Completion | Project Status (FY25) |
|---|---|---|
| **Improvements** | | |
| NE Second 66" Frankford Grit Chamber Bypass In Service | 6/1/2016 | Complete (FY16) |
| NE Frankford High Level Second Barrel Rehabilitation | 6/1/2016 | Complete (FY16) |
| All Districts: Balancing CSO Regulator Wet Weather Capacities | Study - Ongoing | On Track |

### 3.2.1 Additional Collection System Improvements

PWD continues to research and evaluate tools and technologies used within the Collection System and at the WPCPs to enhance performance when possible. PWD studies and evaluates potential collection system and WWFP projects to determine feasibility and cost effectiveness for inclusion in a Combined Sewer Overflow (CSO) mitigation program to expand upon or in addition to the projects committed to in the Wet Weather Facility Plan submitted in June 2016.

#### Frankford Creek Crossing

This project will replace the four separate pipes of the Frankford Creek Siphon with single box sewer to remove a flow constriction in the Upper Delaware Low Level Interceptor. The new box sewer will result in approximately 100 million gallons of CSO volume reduction in a typical year precipitation and provide the capacity required for operation of the new D-05 chamber and other future improvements in the NEDD. In FY25, construction of a temporary bypass was completed and work on the north side of the creek progressed with the installation of pre-cast sewer pieces and concrete transition pieces completed. However, work on the south side of the creek was halted when hazardous soil and VOCs of unprecedented levels were encountered. A new Health and Safety plan (HASP) was developed and approved. The HASP requires workers to wear the top PPE level of hazardous safety gear which includes forced air supply lines. Localized air monitoring was established to provide real-time data to ensure

worker safety. The work stoppage and change in procedure has had a significant impact on the schedule but construction has commenced on the south side of the creek.

### D-05 CSO Regulator (State Road and Magee Avenue)

Construction of a new D05 chamber will increase the delivery of combined sewer flow to the Upper Delaware Low Level Interceptor system. This chamber modification will help utilize the additional conveyance capacity provided by expansion of the Frankford Creek Crossing project. The new D05 chamber will include real time control and will help utilize interceptor capacity efficiently. In FY25, construction of the new chamber was completed however a few critical items remain. Low levels of sewer gas were found to be the cause of wire corrosion. This issue is being addressed while instrument integration and testing is conducted prior to final acceptance.

### 42nd Street Pump Station Expansion

Based on evaluation of the collection system, as well as considering the necessary operation upgrades, it was determined that there are advantages to replacing the combined sewer pump station located at 42nd Street with a station of larger pumping capacity. To support this expansion, modifications to regulating chamber S-50 would also be considered part of the pump station expansion project. A preliminary feasibility study has been completed to determine the constructability and sizing of the pump station. The study determined that the current 8 MGD (peak flow) pump station could be expanded to 60-100 MGD. This upgrade would accommodate increased flow to the SW WPCP and help reduce CSO volume. The project is currently in the design phase, and it is estimated that it will reduce CSO volume by approximately 200-250 MG/year, but the reduction will be dependent on final sizing of the pump station. In FY25, the project neared design completion but lost its Building Resilient Infrastructure and Communities (BRIC) grant and PWD is reviewing options on how to proceed without the expected funding.

The following two projects in the Department's design process are being evaluated for the use of real-time control technology:

### Thomas Run Relief Sewer (R-01)

A capital construction project for the modification of the Thomas Run relief sewer has been initiated. The project is evaluating the potential for this system to be maximized for in-line storage during wet weather by creating a static dam, a new interceptor connection, and CSO regulator site. Alternatives considered include relocating the outfall to minimize disruption to trees and recreational areas in the Cobbs Creek Park. In FY25, PWD coordinated with Philadelphia Parks & Recreation (PP&R) to select a final alternative. A detailed design proposal is underway.

### Southwest Drainage District Regulator Modification (S-20)

The primary project goal is to increase the flow capacity through each regulator to decrease CSO volumes in the Southwest Drainage District. The project will include increasing the opening area of the existing DWOs, removal of existing Brown & Brown regulators, and will consider implementation of locally actuated, real-time, flow control at each site. At the end of FY25, this project was at 50% design status and currently has a target design complete date of FY26.

## 3.3 Interceptor Relining and Rehabilitation

### 3.3.1 FY25 Progress on Miles of Interceptor Lined

The WQBEL Performance Standards required 6 miles of interceptor lining to be completed by the end of Year 10 (2021) which was achieved and reported in the Year 10 EAP. To date, 10.8 miles of interceptor have been completed. Looking at progress towards the Year 15 target, there are 3.3 miles in construction (**Table 6**).

After construction of the remaining three segments, a total of 14.1 miles of interceptor is expected to be relined by the Year 15 deadline. The total is just shy of the 14.5 miles originally planned for and required by the program's Year 15 milestone. Justification for the expected shortfall was reported on in the Year 10 EAP and is described below.

Prior to scoping rehabilitation efforts, each interceptor segment is inspected to determine condition and need for rehabilitation. The Frankford High Level Interceptor (FHL) was studied to determine the condition of the interceptor prior to scoping rehabilitation efforts. This segment is labeled as "Tacony Creek Intercepting Sewer Lining Phase 3" in the table below. The section of the FHL evaluated is approximately 6,000 linear feet in length originating just downstream of Regulator T-14 and terminating near the intersection of O Street and Erie Avenue. The evaluation confirms that this segment of the FHL is in serviceable condition and any observed defects, such as root intrusion or surface spalling, can be corrected with spot repairs and debris removal. The report concludes that application of a continuous liner to the FHL, as has been pursued with the other segments listed in the WQBEL Performance Standards, is not recommended to correct infiltration or exfiltration in this case; the rehabilitation work can be completed at a much lower cost by pursuing the recommended spot repairs and debris removal rather than relining the full section of the interceptor.

In 2023, PWD shared inspection results of the phase 3 Tacony Creek Intercepting Sewer segment with PADEP, along with a recommendation that the segment is not appropriate for lining. DEP responded in agreement with the recommendation with an understanding that PWD maintain the segment in serviceable condition.

**Table 6: Interceptor Relining FY25 Status**

| Project Name | Street Extents | Length (Miles) |
|---|---|---|
| **Construction Complete** | | **10.8** |
| 60th and Cobbs Creek Parkway to 75th and Wheeler Sewer Lining | 60th and Cobbs Creek Parkway to 75th and Wheeler | 2.2 |
| Cobbs Creek Park to 63rd and Market Sewer Lining | Cobbs Creek Park to 63rd and Market | 0.5 |
| Cobbs Creek Interceptor Phase 1 CIPP Lining | 63rd and Market to 62nd and Baltimore | 1.6 |
| Tacony Creek Intercepting Sewer Lining Phase 1 | Chew & Rising Sun to I & Ramona | 1.9 |
| Tacony Creek Intercepting Sewer Lining Phase 2 | 2nd St & 64th Ave to Chew & Rising Sun; DRW Mascher to Tacony Interceptor; Cheltenham Ave to Crescentville & Godfrey | 1.3 |
| Cobbs Creek Interceptor Lining Phase 3 | City Avenue to D R/W in former 67th Street | 1.7 |

| Project Name | Street Extents | Length (Miles) |
|---|---|---|
| Cobbs Creek Intercepting Sewer Lining Phase 4 (Indian Creek Branch) | City Avenue to D R/W in former 67th Street | 1.6 |
| **In Construction** | | **3.3** |
| Cobbs Creek Intercepting Sewer Lining Phase 2 | 61st and Baltimore to 60th and Warrington | 1.0 |
| Upper Frankford LL Collector/Tacony Intercepting Sewer Lining Phase 4 | Castor & Wyoming to Frankford/Hunting Park | 1.1 |
| Upper Frankford Creek LL Collector/Tacony Intercepting Sewer Lining Phase 5 | Frankford/Hunting Park to Luzerne & Richmond | 1.2 |
| Lining Not Recommended | | 1.0 |
| Tacony Creek Intercepting Sewer Lining Phase 3 | I & Ramona to O & Erie | 1.0 |
| **Total Anticipated Miles of Interceptor Lined** | | **14.1** |

# 4.0 Green Stormwater Infrastructure through Public Implementation

The programmatic strategies for achieving public GAs are benchmarked in four phases: planning, design, construction, and post-construction maintenance. The following four subsections describe the progress made during FY25 for each of these phases. **Table 7** summarizes Public GSI projects and GAs for FY25. Later in this section, **Figure 1** displays the Planned and Completed Public GSI projects. A full list of completed public projects can be found in **Appendix 1** and a full list of planned public projects can be found in **Appendix 2**.

**Table 7: FY25 Summary of Public Green Stormwater Infrastructure**

| | End of FY25 | | | Cumulative |
|---|---|---|---|---|
| **Project Phase** | **In Design** | **In Contract Development** | **In Construction** | **Completed** |
| **Number of Projects** | 168 | 53 | 60 | **370** |
| **Current Number of GAs** | TBD* | 150 | 298 | **1,216** |

*An accurate GA value cannot be provided until the design phase is completed

## 4.1 Planning Approaches for Green Stormwater Infrastructure Implementation

PWD has continued to evaluate both entire neighborhoods and specific sites to identify appropriate locations for GSI implementation. During FY25, PWD completed analysis of public retrofit opportunities in high and medium priority sewersheds where GSI would have the highest impact on CSO volume reduction. With the predominant program type being green streets, GSI Planning has continued its extensive coordination with water and sewer planning to address holistic linear asset replacement. In FY25, PWD continued its engagement with right-of-way partners, such as Office of Transportation and Infrastructure Systems (OTIS), to identify potential corridor collaboration opportunities and grant funding.

GSI Planning has also continued to meet regularly with PWD units to improve feedback loops and streamline project processes. As more GSI projects are constructed, communication has increased around project retrofits and retirement, operation and maintenance needs, and data tracking.

### 4.1.1 Planning Outreach and Coordination

PWD works closely with a variety of partners to implement the *Green City, Clean Waters* program throughout all stages of a project. In FY25, PWD continued to refine coordination with City agency partners such as Streets Department and Philadelphia Parks and Recreation to address project-level feedback and tracking to minimize impacts to project designs and timelines.

This past year, GSI Planning coordinated with PWD's Public Affairs team to adapt outreach workflows to address the increase in integrated projects that include GSI, water, and sewer replacement. In addition to moving forward on planning for public retrofit GSI, coordination with non-City partners has supported projects applying for stormwater grants and other implementation mechanisms. Planning outreach and

coordination will continue to take a holistic approach to maximizing stormwater management by utilizing a combination of implementation tools available.

## 4.2 Design Approaches

In FY25, PWD continued work on streamlining the design process through coordination and improvement of design guidance.

- Developed and launched version 1.0 of a data dashboard to assist supervisory staff and design engineers in tracking and understanding reviews, projections, and performance.
- Published GSI Planning & Design Manual Appendix 5 – Supplementary Design Guidance, clarifying and standardizing aspects of GSI system pipe design and maintenance access based on recent feedback from Operations.
- Updated the workflow for stormwater management design on PWD facility improvement projects, incorporating revised standards and procedures. The guidance, originally drafted in 2020, now includes a checklist outlining internal and external stakeholder touchpoints for the stormwater management component.
- Issued an updated GSSD Field Safety Guide with clearer guidance, a new section on de-escalation techniques and maintaining situational awareness, and an appendix of additional departmental safety resources.
- Updated drainage area capture requirements for system placement to maintain cost efficiency of GSI systems.
- Started coordination with OTIS for guidance on compliance with updated Public ROW Access Guidelines regarding impacts to tree pit installation.
- Updated standard project scheduling assumptions by extending PWD review times from 30 days to 60 days to reflect current averages, and revised target design complete dates in CIPIT to improve schedule accuracy.
- Coordinated within PWD to facilitate project reviews and improve feedback, including:
    - Collaborated with Development Services, Compliance, GSI Planning, and Plants & Facilities Design to update the workflow for stormwater management design on PWD facility improvement projects.
    - Renewed a procedure with Private Cost to clarify when and how GSSD should be engaged in reviews where private development impacts existing GSI.
- Continued progress towards future updates to existing procedures, standards, and guidance building on feedback from operations, monitoring, partner agencies, and other PWD units.

## 4.3 Construction

In FY25, PWD continued work on streamlining and improving the construction process through staff training, guidance updates, additional construction support tasks from the design team, and coordination.

- Refined scope of work template that engages design consultants on all post-design bidding and construction support tasks.
- Updated guidance for pre-construction meetings that hands off a project from design to construction.
- Piloted a streamlined as-built development process, including a procedure and resources for producing pre-as-built (PAB) documents in an approved format.

- Completed annual updates to the GSI Master Specifications, Construction Details, and Bid Item List/Engineering Estimate template. Continued work of reconciling specification differences for green-only and green on water/sewer projects.
- Continued research and modifications to design and construction guidance to improve performance of fully lined and partially lined systems, domed riser performance, centralized GSI performance, geotextile alternatives, pipe material, tree root intrusion, and VCP inlet connections. For more details on this performance testing, please see **Appendix A - Green City, Clean Waters FY25 Annual Report Section: Appendix 4 - GSI Monitoring Status Report**.

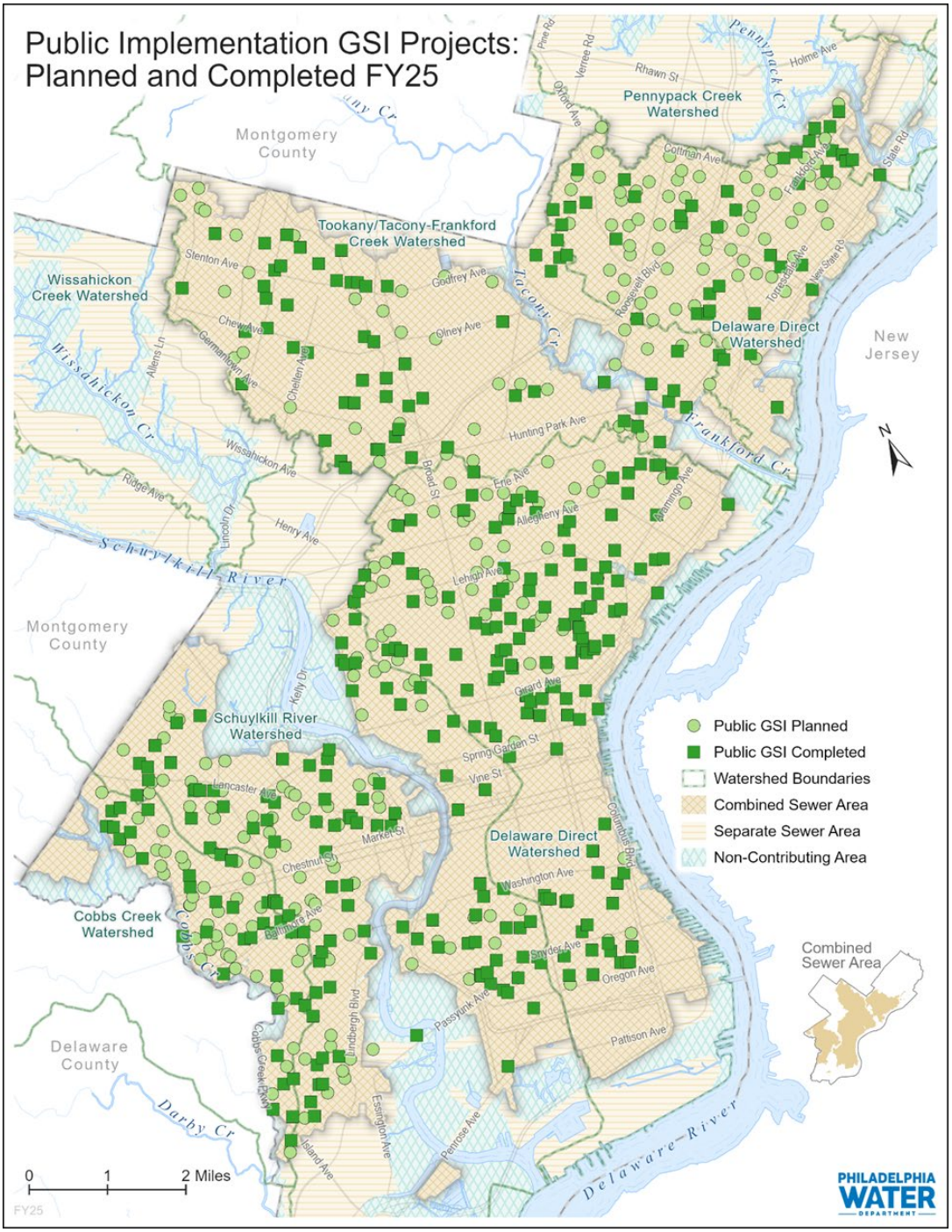



**Figure 1: Public Green Stormwater Infrastructure Projects**

## 4.4 Public Green Stormwater Infrastructure Maintenance Program

To ensure the function and sustainability of stormwater management infrastructure investments, PWD continues to implement a GSI maintenance program. **Table 8** provides a count of SMPs by type that received work orders in FY 2025. PWD implements post construction maintenance in accordance with the Green Infrastructure Maintenance Manual.

**Table 8: FY25 PWD SMP Types in Maintenance**

| SMP Types | Total Number of SMPs in the Combined Sewer System (CSS) | Total Number of SMPs with Work Orders Citywide |
|---|---|---|
| Tree Trench | 679 | 700 |
| Rain Garden | 178 | 185 |
| Stormwater Planter | 98 | 119 |
| Stormwater Bumpout | 179 | 194 |
| Infiltration/Storage Trench | 477 | 504 |
| Pervious Paving | 4 | 5 |
| Green Roof | 1 | 3 |
| Swale | 46 | 46 |
| Basin | 2 | 3 |
| Stormwater Tree | 114 | 114 |
| Drainage Well | 3 | 3 |
| ROW Connection (Inlets) | 59 | 61 |
| ROW Connection (Trench Drains) | 6 | 6 |
| Green Gutter | 1 | 1 |
| Wetland | 4 | 8 |
| **Total Number of SMPs** | | **1,952** |

### 4.4.1 Inspections

#### Inspection of Surface Elements

While PWD has prescribed maintenance frequencies for GSI, practice and experience have determined that pre-maintenance inspections are the best method to determine the level of maintenance required. At each SMP that has surface features, PWD completed pre-maintenance surface inspections.

In FY25, PWD conducted 4,544 pre-maintenance surface inspections. The condition of the site at the time of the pre-maintenance inspection determined whether maintenance is required. PWD also performs dry weather and wet weather inspections for a more comprehensive assessment. By the conclusion of FY25, PWD completed 2,521 dry weather inspections and 357 wet weather inspections. In FY25, PWD conducted a total of 7,422 surface inspections.

#### Inspection of Subsurface Elements

The objective of the subsurface inspection program is to observe and assess all structural components of SMPs that exist below street level. Inspections are performed in dry weather conditions as capturing

discernable video during wet weather conditions is difficult. Inspection staff are certified through the National Association of Sewer Service Companies' (NASSCO) Pipeline Assessment Certification Program (PACP).

PWD completed a total of 1,013 post-construction inspections and 2,927 post-maintenance inspections. The post-construction inspections were associated with 273 SMPs and a total of 11.8 miles of pipe. The post-maintenance inspections were associated with a total of 912 SMPs and 33.3 miles of pipe. The conditions of each pipe run at the time of the inspection determined whether maintenance was completed and if any structural defects were present. Methodology of calculating pipe length was refined in FY25 for improving accuracy. Figures may differ from prior years and are not directly comparable.

### 4.4.2 Maintenance

PWD's GSI maintenance program operates through three types of maintenance activities to adequately address the maintenance needs of PWD's GSI. Work orders associated with inspection and maintenance events for surface maintenance, subsurface maintenance, and porous maintenance are summarized in **Table 9**.

**Table 9: FY25 Summary of Maintenance Events by Type**

| Work Order Type | Number of FY25 Events |
|---|---|
| **Surface** | |
| Surface Inspection | 4,544 |
| Surface Maintenance -Routine | 6,561 |
| Surface - Mulching | 817 |
| Surface - Pruning | 571 |
| Surface Maintenance -Watering | 3,520 |
| Tree Maintenance | 531 |
| Trench Drain Maintenance | 560 |
| Work Zone Protection | 1 |
| Aesthetic | 365 |
| Signage Repair | 168 |
| Surface Vegetation Cutback | 452 |
| Snow Removal | 7 |
| Rough Mowing | 6 |
| Turf Mowing | 1 |
| **Surface Maintenance - Reactive** | |
| Surface Vegetation Repair | 138 |
| Earthwork | 54 |
| Surface Structural Repair | 134 |
| Drainage Modification | 6 |
| **Subsurface** | |
| Subsurface – Post Construction Inspection | 1,013 |
| Sub-surface Maintenance | 2,911 |
| Sub-surface Inlet Cleaning | 2,753 |
| Sub-surface Inlet Protection Maintenance | 711 |
| Surface Inlet Protection Maintenance | 21,175 |

| Work Order Type | Number of FY25 Events |
|---|---|
| Non-Standard Subsurface Inspection | 0 |
| Non-Standard Subsurface Maintenance | 2 |
| Subsurface Structural Repair | 4 |
| **Porous** | |
| Routine Porous Maintenance | 10 |
| Restorative Porous Maintenance | 0 |
| **Total** | **47,007** |

### PowerCorpsPHL

Over the past decade, the City and PWD have implemented new strategies to promote the economic and social growth of the city and meet environmental, ecological, and business missions. In support of these initiatives, and to augment PWD's GSI maintenance responsibilities, PWD entered a partnership with PowerCorps_PHL. PowerCorps is a City of Philadelphia AmeriCorps initiative designed to engage youth, ages 18-26, which transforms lives through service and workforce development. **Table 10** summarizes the amount of material collected by PowerCorps in FY25.

**Table 10: PowerCorpsPHL Trash and Debris Removal in FY25**

| Amount collected (in pounds) | Amount collected (in tons) |
|---|---|
| **23,600** | **11.8** |

## 4.4.3. SMP Abandonments

Four SMPs were retired and abandoned in FY25. When a SMP is retired due to performance issues or nearby development impacts, it is permanently taken offline, no longer maintained, and is removed from compliance GA reporting.

# 5.0 Green Stormwater Infrastructure through Private Development

## 5.1 Philadelphia Stormwater Management Regulations

The Philadelphia Stormwater Management Regulations (PSWMR) were established in January 2006 and revised in July 2015, providing the foundation for the private sector's role in stormwater management. Effective July 2, 2018, PWD made changes to how streets are regulated to better align with Chapter 102 requirements in the Pennsylvania Code. Most recently, the regulations were updated in July 2022, to clarify the Flood Control and Channel Protection requirements, as well as updates to the O&M Agreement section. The City of Philadelphia requires stormwater management for land development projects in the City of Philadelphia that feature 15,000 square feet or more of earth disturbance. Plans for proposed projects must be submitted for Conceptual Review to pursue a zoning permit, while the submission of detailed stormwater management plans must receive a technical review and approval prior to obtaining a building permit.

A summary of constructed GAs through private development projects by watershed is listed below in **Table 11**. A full list of completed private development projects can be found in Table 3 **Appendix 3**. At the end of this section, **Figure 3** displays the completed green infrastructure installed through private development and incentivized retrofits.

**Table 11: FY25 Cumulative Completed Greened Acres by Watershed through Private Development**

| Watershed | Darby-Cobbs | Delaware | Pennypack | Tookany-Tacony/ Frankford | Schuylkill | Cumulative Completed |
|---|---|---|---|---|---|---|
| Number of Projects | 26 | 266 | 4 | 71 | 230 | 597 |
| Greened Acres | 24 | 547 | 8 | 139 | 445 | **1,163** |

### 5.1.1 Expedited Review

PWD offers a service level goal of no more than a fifteen-day review for all projects submitted for post-construction stormwater management plan review. However, projects that propose preferred green stormwater management approaches are eligible for an expedited, five-day review. PWD offers two types of expedited reviews: 1) disconnection green review and 2) surface green review. The disconnection green review ensures redevelopment projects that disconnect 95% or more of the post-construction impervious area—using features such as green roofs, porous pavement, and new tree canopy—will receive a review response within five days. The surface green review expands the number of eligible projects by including both new development and redevelopment projects that manage 100% of the post-construction impervious area through bioinfiltration and bioretention basins as well as the practices that qualify for the disconnection green review. In FY25, a total of fourteen projects qualified for an expedited review in the combined sewer areas, with eleven projects selecting the disconnection green review and three projects selecting the surface green review.

### 5.1.2 Active Construction Inspections

For projects that proceed to construction, the installations of SMPs are inspected by PWD during construction. Active construction inspections are completed for both private development and incentivized retrofit projects in accordance with standard inspection procedures. During FY25, PWD conducted 3,174 inspections during active construction in the combined sewer area.

### 5.1.3 Construction Verification Initiative

PWD continued to refine a construction verification process with the goal of assessing individual projects prior to counting GAs toward compliance totals. This process emphasizes communication efforts from the start of the development project so property owners can adequately plan for record drawing creation. Throughout construction and at the time of construction completion, PWD conducts inspections of the site to observe and document installation of the approved SMPs. PWD also continued to perform outreach at the close of construction to solicit record drawings from project engineers and owners. Starting in August 2023, PWD is holding the certificate of occupancy for all approvals until the record drawing and other required documents are provided. These record drawings allow PWD to verify SMP installation and function.

In addition to this process, PWD continued to pursue a verification initiative to gather documentation of approvals that have not otherwise been verified and create record drawings to document the constructed conditions. To date, 216 projects with a total of 328 GAs have been inspected and verified through this supplemental approach.

### 5.1.4 I-95 Reconstruction Project

Pennsylvania Department of Transportation (PennDOT) is reconstructing Interstate 95 (I-95) in Philadelphia. Three components of the I-95 reconstruction project support stormwater management: 1) disconnection of stormwater from the combined sewer system; 2) ensuring that redevelopment occurs in a manner consistent with the PSWMR; and 3) installation of GSI in the public right-of-way.

The work on I-95 in Philadelphia is broken into two sectors: Sector A and Sector B. The multi-phased work between Bleigh Avenue and Race Street is known collectively as Sector A. Sector A of the I-95 Reconstruction Project is divided into five major design sections, moving from north to south: CPR, BSR, BRI, AFC, and GIR. Each of these sections is further subdivided into a total of twenty-four construction subsections. Sector B encompasses the area from Race Street to Girard Point Bridge (airport side). At present, Sector B has two design sections delineated, Section CAP from Chestnut to Walnut, and Section CSP from Vine Street to Girard Point Bridge (airport side). Some of the design and construction work for Sector B may be concurrent with the work in Sector A.

A graphic illustrating the I-95 Reconstruction Project sections is featured below in **Figure 2**.

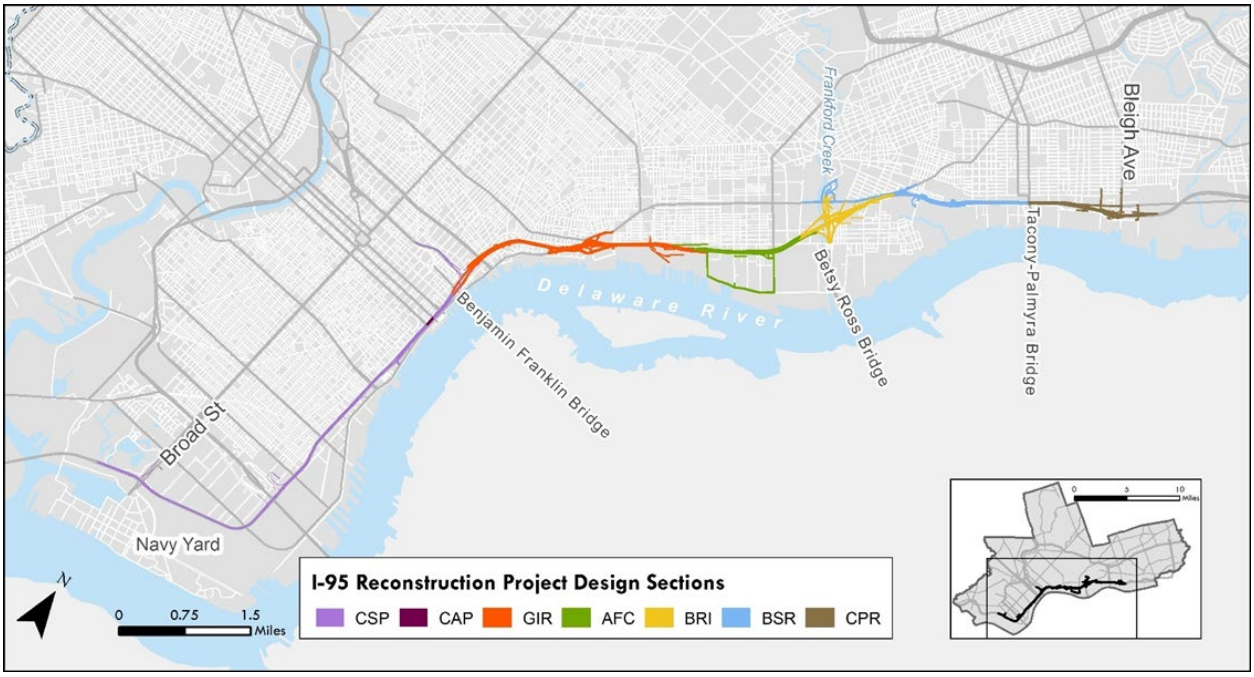



**Figure 2: I-95 Reconstruction Project Sections**

Project updates for the construction subsections with significant design or construction progress in FY25 are summarized in **Table 12.** The PennDOT I-95 website is available at the following link: https://95revive.com/.

**Table 12: I-95 Construction Section FY25 Updates and Anticipated Bid Dates**

| Section | Project Description/ Update | FY25 Project Phase | Completion Date |
|---|---|---|---|
| **Sector A – Between Bleigh Avenue and Race Street** | | | |
| **Section CPR (Cottman-Princeton Ramp Area)** | | | |
| **CP2** | Six new separate stormwater outfalls have been completed in Cottman Avenue, Princeton Avenue, Magee Avenue, Disston Street, Unruh Avenue, and Bleigh Avenue. The stormwater pipes are designed to accept the drainage from the highway as well as the area in between the highway and the Delaware River as development occurs. | Completed | 2017 |
| **CP3** | Relocation of approximately 1500 feet of sanitary sewer. | Completed | 2024 |
| **Section BSR (Bridge Street Ramp Area)** | | | |
| **BS1** | Construction underway. Work includes the construction of one bioretention system, one media filter, two VorTech separators, and one new outfall in Levick Street will be constructed to treat stormwater from the mainline highway. | Completed | 2023 |
| **BS4** | New PWD storm sewers, inlets, and new outfalls were installed to covey the new Adams Street runoff. Three basins with amended soils | Completed | 2020 |

| | | | |
|---|---|---|---|
| | and impervious liners were constructed to treat stormwater from the new interchange ramps. | | |
| **BS2** | Work will include two bioinfiltration basins and five bioretention basins to manage stormwater from the mainline highway. Also proposing 9 tree trenches which will be owned and maintained by PWD. A portion of the drainage area to the tree trenches is existing impervious ROW which will be banked for trade in future phases of the I-95 expansion project. Anticipated bid date calendar year 2022. | In Construction | (2027) |
| **BS3** | Reconstruction of Aramingo Avenue from Church Street to Tacony Street; continuing north on Harbison Avenue to Amtrak overpass. Project is anticipated to be bid in 2026. | In Design | (2030) |
| **BS5** | Extension of Delaware Avenue from its current terminus at Orthodox Street to Tacony Street. Anticipated bid date end of calendar year 2025. | In Design | (2028) |
| **Section BRI (Betsy Ross Interchange Area)** | | | |
| **BR0** | PWD sanitary and storm sewer culverts were relocated. Stormwater runoff from the reconstructed portions of the highway and ramps was treated by under-drained bioretention and water quality units then directly discharged to the Frankford Creek, removing the drainage area from the CSO system. | Completed | 2017 |
| **BR2** | Under construction. Basins built in BR0 will be reused in BR2 and new basins will be installed. The new basins will be sized for future phases as well. All basins will have forebays, be non-infiltrating, and have amended soils and underdrains with a rock layer and liner. The PennDOT-owned outfall locations in BR2 will be reconstructed in the same locations as existing outfalls. Anticipated completion date calendar year 2023. | Completed | 2023 |
| **BR3** | Reconstruction of northbound lanes of I-95 from Wheatsheaf Lane to just north of Margaret Street. Anticipated bid date calendar year 2024. | In Design | (2028) |
| **BR4** | Reconstruction of the southbound lanes of I-95 from Wheatsheaf Lane to just north of Margaret Street. Anticipated bid date calendar year 2026. | In Design | (2031) |
| **BR5** | Includes work related to the Conrail/NJ Transit railroad line. Bridge over northbound ramps to the Betsy Ross Bridge and Aramingo Avenue will be rehabilitated. Anticipated bid date calendar year 2027. | In Design | (2031) |
| **Section AFC (Ann to Frankford Creek Area)** | | | |
| **AF1** | Streetscape work within the Richmond Street right-of-way (ROW) between Allegheny and Westmoreland is not subject to the Stormwater Regulations. Improvements to Melvale Street will be managed by two infiltration trenches that will be owned and maintained by PWD. | Completed | 2020 |
| **AF2** | Work included rebuilding of side streets prior to mainline construction. Proposing a net decrease in impervious area and a GSI tree trench along Castor Avenue. The managed area was banked for future phases. | Completed | 2023 |
| **AF3** | Reconstruction of northbound and southbound I-95 and its structures between Tioga Street and Wheatsheaf Lane. Section SF3 is in Final Design and tentatively scheduled to start construction in 2025. | In Design | (2029) |

| | | | |
|---|---|---|---|
| **AF4** | Reconstruction of southbound I-95 and its structures between Tioga Street and Clearfield Street. Section AF4 is in Final Design and tentatively scheduled for construction in 2029. | In Design | (2032) |
| **Section GIR (Girard Avenue Interchange Area)** | | | |
| **GR1** | The reconstruction of Richmond Street was managed by street trees and a bioretention basin. A new separate sewer system was constructed and connected below the regulators in Dyott Street and Cumberland Street. | Completed | 2017 |
| **GR2** | The mainline highway areas are managed by multiple bioretention basins along the side of the highway. | Completed | 2016 |
| **GR3** | GR3 is the northbound mainline highway segment. One separate sewer outfall was constructed in Cumberland Street. In Dyott Street, a pipe was constructed that ties in below the regulating chamber. A sewer was found in the old Lehigh Avenue ROW and rehabilitated to separate a portion of the highway drainage.<br><br>Stormwater is managed in GR3 using bioretention basins, infiltration basins, and detention basins. The basins are designed to manage the water quality volume. | Completed | 2018 |
| **GR4** | GR4 is the southbound mainline highway segment and is currently under construction. Stormwater is managed in GR4 using bioretention basins, infiltration basins, and detention basins. The basins are designed to manage the water quality volume. | Complete | 2023 |
| **GR5/ GR6** | Reconstruction of I-676/Vine Street ramp connections with northbound/southbound I-95. Anticipated construction start for GR6 is calendar year 2026. Anticipated construction start date for GR5 is calendar year 2028. | In Design | (2030/2032) |
| **Sector B – Race Street to Girard Point Bridge (Airport Side)** | | | |
| **Section CSP (Central and South Philadelphia Area)** | | | |
| **CAP** | CAP project is a 600’ wide structure spanning I-95 and Christopher Columbus Blvd between Walnut and Chestnut Streets. An area of fill will gently slope from the structure to the Delaware River waterfront. A vegetated park, recreational areas, walkways, and several building structures are proposed on the CAP structure and fill area. The majority of the CAP structure is proposed to function as a green roof with the remaining impervious area managed by a cistern with captured runoff reused as greywater for the restroom facilities and a subsurface detention basin. Earth disturbance in 95 and Columbus will be minimal under the CAP. Areas outside of LOD, managed by the CAP are eligible for management banking. All SWM components must be designed and built in accordance with the Green Stormwater Infrastructure design standards. | In Construction | (2029) |
| **CSP - I-95 NB/SB between Race Street and Girard Point Bridge** | | **Planning Study Underway** | |

## 5.2 Incentives for Private Property Owners to Implement Green Stormwater Infrastructure

PWD offers private landholders incentives to implement stormwater management practices on existing properties that reduce stormwater pollution entering the City's sewers and surrounding waterways while enhancing water quality in the region's watersheds. A summary of completed GAs from incentivized retrofit projects by watershed is listed below in **Table 13**. A full list of completed incentivized retrofit projects is available in Table 4 of **Appendix 3**.

**Table 13: FY25 Cumulative Completed Greened Acres by Watershed through Incentivized Retrofits**

| Watershed | Darby-Cobbs | Delaware | Pennypack | Tookany-Tacony/ Frankford | Schuylkill | Cumulative Completed |
|---|---|---|---|---|---|---|
| Number of Projects | 1 | 44 | 6 | 40 | 42 | **133** |
| Incentivized GAs | 3 | 420 | 45 | 289 | 320 | **1,077** |

### 5.2.1 Zoning Bonuses

The Philadelphia Zoning Code incentivizes stormwater management through height and density bonuses. PWD helps determine the criteria for earning a bonus, but the code is written by the Philadelphia City Planning Commission and enacted by City Council, which limits PWD's control over the process.

#### Green Roof Density Bonus

The Philadelphia Zoning Code offers incentives to projects citywide that install green roofs by providing exceptions to certain residential density rules. To be eligible for these exceptions, the project must be located in the designated zoning districts and propose coverage of at least sixty percent (60%) of the roof's surface with a green roof. In July 2018, the Zoning Code was amended to allow eligibility for existing buildings. New building construction must involve at least 5,000 square feet of earth disturbance, while existing buildings must have a minimum footprint of 5,000 square feet. The green roofs are designed to PWD standards and inspected by PWD during construction. PWD also executes operation and maintenance agreements with the project owners, ensuring the long-term maintenance and functionality of the green roof system. Projects submitted for this bonus sized between 5,000 square feet and 15,000 square feet of disturbance were not required to install stormwater management practices to comply with the PSWMR. In FY25, a total of six projects took advantage of the green roof density bonus, all of which were in the combined sewer area.

#### Height Bonus

The Philadelphia Zoning Code offers incentives to projects in the East Callowhill Overlay (ECO) and Central Delaware Overlay (CDO) Districts that provide stormwater open space and/or manage stormwater runoff from the public right-of-way (ROW) that front their property. PWD also executes Operation and Maintenance agreements with the project owners who take advantage of these bonuses, ensuring long-term maintenance and functionality of the SMPs. To date, four projects have received

post-construction stormwater management plan (PCSMP) approval using a height bonus and two of those projects have completed construction.

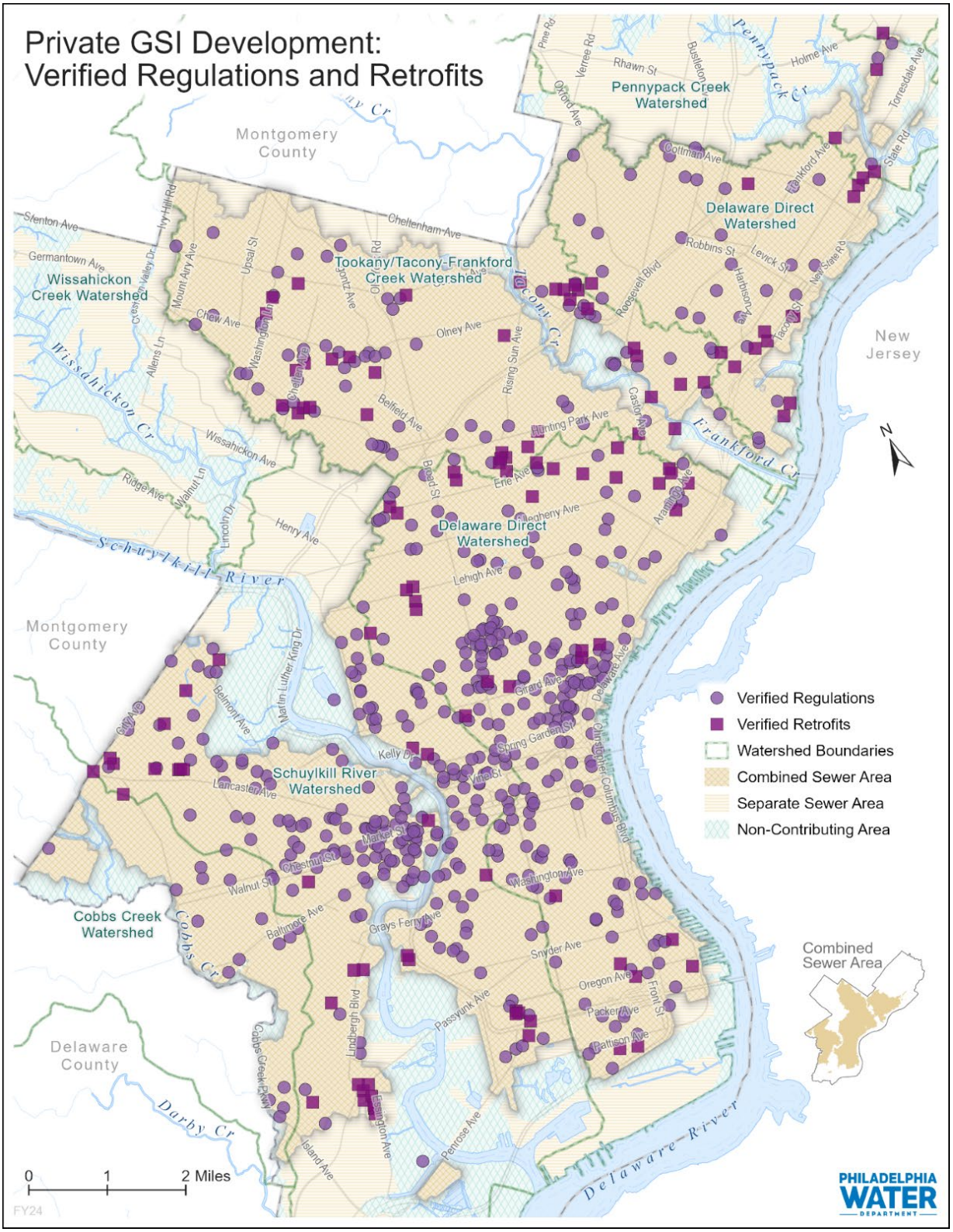



**Figure 3: Completed Regulations and Retrofit GSI projects**

## 5.3 Post-Construction Maintenance of Private Facilities

To ensure ongoing SMP maintenance of private facilities constructed through the stormwater management regulations or incentivized retrofit projects, PWD continues to use the following combination of tools: executing Operation and Maintenance (O&M) agreements, conducting post-construction maintenance inspections, utilizing enforcement, and administering stormwater credits.

**An Operation and Maintenance agreement** between the property owner and PWD is executed and recorded against the property as part of the PWD post-construction stormwater management plan process. These agreements outline the SMPs on the private site and stipulate maintenance requirements. The agreements also include language granting PWD the authority to inspect on-site SMPs and even perform maintenance on behalf of the property owner if necessary.

**PWD maintains comprehensive operations and maintenance information** geared toward the private development community in Chapter 4 of the Philadelphia Stormwater Management Guidance Manual. Each SMP section provides guidance on SMP maintenance activities, including a recommended SMP maintenance schedule and maintenance factsheets that are available as a quick resource for the property owner. In addition, as part of the post-construction stormwater management plan review process, projects must create an SMP Maintenance Guide which is detailed in Appendix G of the Manual. The SMP Maintenance Guide is unique to each project and includes a site map and Maintenance Schedule Form for each SMP to allow the owner to track maintenance activities for the site. Please see the links below for more information:

- Philadelphia Stormwater Management Guidance Manual, Chapter 4
- Philadelphia Stormwater Management Guidance Manual, Appendix G

**Post-construction maintenance inspections** of private facilities were conducted throughout the reporting period. PWD utilizes visual inspections and specialized inspection techniques to assess the performance of private SMPs. PWD conducts post-construction maintenance inspections on all applicable private facilities. As projects are identified for maintenance inspection, the PWD post-construction inspection staff contacts the property owner to schedule the inspection. PWD attempts to conduct the inspection with the property owner or their maintenance representative present so any concerns or questions can be verbally discussed.

After inspection, a post-construction inspection report is generated and issued to the property owner. Any required corrective actions are identified in the report along with a deadline for resolution. After actions are taken, PWD reinspects the property and compliant sites are closed until their next routine inspection date. Inspectors will provide guidance to the property owner to ensure corrective actions are resolved. In addition to visual inspections, PWD has identified other effective methods and technologies, including closed-circuit television, surveys of critical system elevation points, confined space, pole-mounted camera photography, and wet weather inspections. PWD will continue to evaluate and refine post-construction inspection protocols. In FY25, PWD performed 156 post-construction inspections in the combined sewer areas of the city.

**Referral for enforcement** is pursued for severe violations or if compliance is not achieved within the timeframe specified during the post-construction inspection process. PWD typically initiates an enforcement case with the issuance of a post-construction enforcement letter to the property owner if a

PCSMP is found to be insufficiently maintained. In some circumstances, PWD may initiate enforcement with the issuance of a Notice of Violation (NOV). The notifications include a description of issues identified and a timeline to achieve compliance. The City is authorized to compel maintenance of SMPs on private property under the Philadelphia Code and PWD Regulations. Development sites that are subject to the PSWMR, as well as properties that have grant funded SMPs, are required to maintain the SMPs to function as designed. If initial notification is unsuccessful at bringing action from the property owner, PWD can compel compliance through several enforcement tools, including NOVs (if enforcement is initiated with a PEL), suspension of applicable stormwater billing credits, fines, court action, and/or a nuisance abatement and lien by the City. In FY25, PWD successfully resolved 12 enforcement cases consisting of 17 SMPs in the combined sewer area of the city. Of the enforcement cases closed, escalated enforcement tools were utilized, consisting of seven NOVs, with five escalating to fines. PWD will continue to work with property owners to ensure that SMPs are inspected and maintained in accordance with the Regulations and recorded O&M agreements.

### 5.3.1 Stormwater Credits

Non-residential property owners are eligible for *Stormwater Credits*—a direct reduction to the monthly stormwater charge—if they own and maintain stormwater management practices that reduce stormwater flows and volume to the City's sewer systems and surrounding waterways. Both retrofit and development projects are eligible for credits against their stormwater charge upon completion of construction, and owners must renew their credits every four years. With the credits renewal application, owners may provide maintenance logs and/or PWD may perform an inspection to demonstrate that the SMPs continue to be functional. PWD approved or renewed 172 combined sewer area (348 citywide) stormwater billing credit applications during the reporting period. Failure to adhere to the credit requirements will result in the suspension or termination of the billing reduction.

# 6.0 Data Collection and Analysis

## 6.1 Green Stormwater Infrastructure Post-Construction Monitoring

Proposed methodologies for the *Green City, Clean Waters* monitoring program were outlined in a revised Comprehensive Monitoring Plan (CMP) that was submitted on January 10, 2014, and approved on May 28, 2014, by PADEP. PWD has updated methods through new standard operating procedures (SOPs) that better reflect current techniques.

Monitoring and testing green stormwater infrastructure are essential to evaluate its effectiveness in managing stormwater and reducing CSOs. PWD uses construction-phase testing and post-construction monitoring and testing at the SMP and system levels to ensure functionality, evaluate the performance of stormwater management practices, and to provide information for improvements to design and maintenance. FY25 monitoring activities are described in detail in **Appendix 4 GSI Monitoring Status Report.** FY25 updates on other, non-GSI infrastructure components of the CMP can be referenced in Section **F.2 Step 1.b. of the Stormwater Management Program Annual Report.**

PWD has completed its 5-year green stormwater infrastructure pilot program and results were reported in the Year 5 Evaluation and Adaptation Plan. Information on the selected sites, associated variables, and results are available here:
https://water.phila.gov/pool/files/Year5_EAPBody_website.pdf.

PWD continued extensive data collection and analyses performed during the second 5 years of the program implementation. This assessment of the program performance is provided in Section 3.0 of the Year 10 Evaluation and Adaptation Plan available here:
https://water.phila.gov/pool/files/gccw-year-10-eap.pdf.

# 7.0 Public Outreach and Participation

## 7.1 Public Engagement & Participation Overview

PWD's Public Engagement (PE) Team, nested within the Public Affairs (PA) unit, continues to engage a broad range of residents, ratepayers, community organizations, stakeholders, and more. In FY25, the PE Team, Fairmount Water Works Interpretive Center (FWWIC), and other Public Affairs staff / programming **interacted with almost 100,000 people** through a variety of notification, outreach, engagement, public education, and/or program and initiatives. The PE Team has also continued to adapt and develop the newly created Community Outreach Associate (COA) position, tasked with outreach and engagement support to each of the four Community Outreach Specialists (COS) across the four PWD Green Stormwater Infrastructure (GSI) Districts (see here or here for more engagement information).

**Table 14: FY25 Public Engagement Metrics at a Glance**

| Public Outreach & Participation Programming Type | Approximate Number of Direct Contacts & Connections to Residents in FY25 |
|---|---|
| GSI Notification, Outreach & Engagement | 27,263 |
| Focused Digital GSI Notification | 27,930 |
| GSI Interpretive Signage | 20 |
| Rain Check Engagement | 1,012 |
| Soak It Up Adoption Outreach | 24,498 |
| Fairmount Water Works Interpretive Center Education & Outreach | 18,040 |
| **Grand Total:** | **98,763** |

## 7.2 Green Stormwater Infrastructure (GSI) Notification

Public notification, education, and engagement around GSI projects in Philadelphia's neighborhoods continued as outlined through PWD's *Green City, Clean Waters* (GCCW) plan. Each District has a COS tasked with community outreach for all GSI projects within their outreach area and these efforts are cumulative across Philadelphia's combined sewer service (CSS) area. Along with traditional *GCCW* outreach (such as community presentations at public meetings and tabling), the PE Team used focused digital media strategies for even broader public awareness.

### 7.2.1 Public GSI Events & Touchpoints

During FY25 the PE Team made over 27,000 points of contact with residents about GSI projects in their neighborhood. The PE Team pairs technical project milestones with appropriate external/public friendly messaging to communicate project updates. Each community meeting, tabling event, and/or other event (e.g. fun day, GSI tour, etc) is generally preceded by public notification and promotion. After a given engagement event, the PE Team updates all project tracking sheets, metrics, and other necessary documents to maintain forward progress in the community and accurately collect outreach data.

**Table 15: FY25 GSI/GCCW Traditional Community Meeting Metrics**

| PWD GSI District | Number of Public GSI Projects | Number of Public GSI Outreach Events | Number of GSI Event Participants | Number of GSI 1:1 Project Letters Sent | Number of GSI Bid-Award Letters Sent | Estimated Total Community Reach by GSI District |
|---|---|---|---|---|---|---|
| GSI District 1) West Philly | 56 | 30 | 861 | 103 | 11,095 | 12,059 |
| GSI District 2) South Philly & Riverwards | 7 | 7 | 154 | 23 | 5,835 | 6,012 |
| GSI District 3) Lower North Philly | 36 | 22 | 618 | 111 | 3,068 | 3,797 |
| GSI District 4) Northeast & Northwest Philly | 67 | 10 | 342 | 5 | 5,048 | 5,392 |
| **PE Team Total(s):** | **166** | **69** | **1,975** | **242** | **25,046** | **27,263** |

**Due to the technical classification of some of these projects, and/or based on internal workflows, and/or the fact that PWD does integrated projects (GSI, water, sewer), this is a best-faith estimate.*

As a digital complement to traditional outreach, PWD continued to increase production of its Project Pages as an online resource containing contact information and public-facing GSI project information.

### 7.2.2 Focused Digital Communications Around Public GSI Projects

The PE Team consistently used digital engagement strategies focused on customer awareness of GSI projects to support outreach needs. Examples include sending focused digital communications to inform residents about GSI project status updates and/or GSI meetings in their neighborhood. Digital communications were sent to specific ZIP codes via GovDelivery digital newsletter bulletins and posted to specific neighborhoods via Nextdoor at the following GSI project phases:

- Early Design - GSI Street Survey & Geotechnical Work Notifications
- Early Design - Early GSI Design Quarterly Sends
- Mid-Design - GSI Community Meeting Promotions
- Pre-Construction - GSI Bid Notifications

Subscribers of the PWD newsletter, which is sent digitally to the public, sign up to receive email bulletins about various topics related to PWD services and programming. Specific subscribers in the following topics receive GSI targeted digital bulletins filtered by ZIP code: Alerts and Notification, Events, PWD General News, PWD Partners, and Registered Community Organizations (RCO).

During FY25, more than 50 focused Nextdoor posts were published informing the public about these project phases/events. Each focused post reaches between ~1,000 - 5,000 subscribers on average. The table below showcases select targeted digital communications metrics for GovDelivery email and SMS bulletins.

**Table 16: FY25 GSI/GCCW Targeted Digital Communications Metrics**

| Type of Digital GSI Bulletin Sent | Delivery Method(s) | Number of Bulletins Sent | Number of Email Recipients |
|---|---|---|---|
| Survey & Geotechnical Work for GSI Systems | Email & SMS Text; GSI District 4 Example Send | 16 | 6,663 |
| Early GSI Design | Email & SMS Text; GSI District 2 Example Send | 13 | 5,803 |
| GSI Community Meeting Promotion | Email & SMS Text; GSI District 1 Example Send | 12 | 8,865 |
| GSI Project at Bid | Email & SMS Text; GSI District 3 Example Send | 13 | 6,599 |
| **GSI Digital Comms Total(s):** | | **54** | **27,930** |

Metrics goals are based on a 2024 Digital Communications Benchmark Report created by Granicus, a digital civic engagement company for governmental use, and PWD's GovDelivery system is a product of Granicus. PWD Public Affairs uses the following industry benchmarks: 1) Public Works & Utilities: median open rate of 33% and a median click rate of 6%, and 2) Water & Sanitation: median open rate of 35% and a median click rate of 5%.

## 7.3 Other Public Education, Outreach, & Engagement Programs

### 7.3.1 Green City, Clean Waters Interpretive Signage

In FY25, the PE Team continued to develop and install interpretive *Green City, Clean Waters* permanent signage (see examples here and here) at newly constructed GSI sites across the city's CSS area. This process includes reviewing and updating design or install specifications, site visits, coordination with property owners/partners, permitting (when necessary), and finally, permanent mounting and installation. A total of 20 new interpretive signs were put in/around public GSI in the Fall of 2024; the next round of installations will take place in Fall of 2025. As of this report over 200 total GSI interpretive signs have been installed as ways to educate the public about what these systems are, how they work, and how they protect local waterways.

### 7.3.2 Rain Check – A Green Homes Program

Rain Check, a program managed by the Pennsylvania Horticultural Society (PHS) through a contract with PWD, seeks to install stormwater management systems / tools on residential properties within Philadelphia with the help of vetted local contractors.

In FY25, the Rain Check program hosted 31 virtual and/or in-person workshops which drew over 1,000 PWD customers and resulted in over 430 stormwater management tools installed on residential properties throughout the city. Participation in the Rain Check program is highlighted in **Table 17**.

**Table 17: FY25 Rain Check Metrics**

| FY25 Rain Check Metrics | Total(s) |
|---|---|
| Rain Check Workshops Hosted | 31 |
| Rain Check Workshop Attendees | 1,012 |
| Rain Barrels Installed* | 337 |
| Metal Downspout Planters Installed* | 82 |
| Permeable Paving Installed* | 17 |
| Rain Gardens Installed* | 1 |
| **Total Number of Residential Stormwater Systems Installed*** | **437** |

**Installations Completed: For some participants who signed up this FY, the installation of their tools is still in progress.*

### 7.3.3 Soak It Up Adoption – A Green Communities Program

In FY25, the Soak It Up Adoption (SIUA) program provided small annual grants to eligible organizations and served a dual purpose: to help PWD clean, monitor, and maintain these public GSI sites & to engage local residents about what GSI is and how it is connected to protecting local waterways.

Throughout FY25 eleven community-based organizations participated in the Soak It Up Adoption program, adopted almost 100 GSI sites in Philadelphia, removed over 2,900 bags of trash, and engaged over 24,000 residents. Site-care heroes are paid hourly rates and are usually residents of the communities in which they work. For more information, please visit these links: SIUA Home Page, SIUA 'In the News', and SIUA 'My Favorite Thing'.

SIUA partners use a wide variety of outreach techniques to educate and engage local residents around their adopted infrastructure; strategies range from digital & social media to in-person meetings, to e-newsletters, to tabling with printed materials, to tours / tour assistance, and beyond. Please see **Table 18** for SIUA program metrics for this fiscal year.

**Table 18: FY25 Soak It Up Adoption (SIUA) Metrics**

| Soak It Up Adoption (SIUA) Partner List | Number of GSI Sites Adopted | Number of 30-Gallon Trash Bags Collected* | Number of Residents Engaged |
|---|---|---|---|
| Asociación Puertorriqueños en Marcha (APM) | 15 | 171 | 5,002 |
| Centennial Parkside Community Development Corporation (CPCDC) | 7 | 1,185 | 56 |
| Empowered Community Develop Corporation (ECDC) | 12 | 5 | 150 |
| Frankford Community Development Corporation (FCDC) | 2 | 1,125 | 47 |

| | | | |
|---|---|---|---|
| Friends of Eastern State Penitentiary Park & Corinthian Gardens (FESPP & CG) | 10 | 47 | 1,000 |
| Make the World Better (MTWB) | 10 | 88.5 | 1,355 |
| North10 (North10) | 6 | 67 | 848 |
| South Kensington Community Partners (SKCP) | 8 | 49.5 | 38 |
| Southwest Community Development Corporation (SWCDC) | 22 | 232 | 16,000 |
| Tookany-Tacony Frankford Watershed Partnership (TTF) | 4 | 9.25 | 2 |
| **SIUA Total(s):** | **96 GSI Sites** | **~2,979.3 bags of trash collected** | **~24,498 engaged residents** |
| Converting 30-Gallon Bag Total to Pounds (lbs)*** | | ~115,861.4+ lbs | |

**All SIUA partners collected trash in 30-gallon paper bags.*
***Conversion from 30-gallon bags to pounds (lbs.) of trash is done using the EPA-originated factors/equations.*

### 7.3.4 Noteworthy Green City, Clean Waters Events, Tours, and/or Blog Examples

**Table 19** below outlines examples of public engagement events and strategies implemented by PWD during FY25.

**Table 19: FY25 Examples of Various Public Engagement Events and/or Strategies**

| Date | Event | Description | Relevant Links |
|---|---|---|---|
| Sept '24 | Family Fun Fishing Fest | Fishing Fest Focused on Safe Water Hobbies & Family Engagement | www.flickr.com/photos/philadelphiawater/albums/72177720320220217/ |
| Oct '24 | Southeast Open House & Career Fair | Open House Focused on Tours, General Info & Tabling, Careers | www.flickr.com/photos/philadelphiawater/albums/72177720321385087/ |
| Oct '24 | GSI Tour for NYC Soil & Water Conservation District | West Philly GCCW, GSI Info + Tours | www.flickr.com/photos/philadelphiawater/albums/72177720321590487/ |
| Jan '25 | Global Citizen MLK Day Event | Community Resource & Volunteer Event | photos.app.goo.gl/nnnF2R5XSwS4hqq78 |
| April '25 | Hope PHL Earth Day Celebration | Community Resource Fair | www.hopephl.org/news--publications/promoting-sustainability-across-our-lives |
| June '25 | Flat Rock Dam Ribbon Cutting & Community Event | Ribbon-Cutting Ceremony | www.flickr.com/photos/philadelphiawater/albums/72177720327165474/with/54615025232 |

| | | | |
|---|---|---|---|
| June '25 | BLS Open House & Career Fair | Open House Focused on Tours, General Info & Tabling, Careers | www.flickr.com/photos/philadelphiawater/albums/72177720326896886/ |

## 7.4 Public Education & Urban Watersheds Curriculum

### 7.4.1 Fairmount Water Works Interpretative Center (FWWIC)

For further information on FWWIC engagement in FY25, please refer to **CSO II.G.4 – Continue to Support the Fairmount Water Works Interpretive Center** on page 32.

# Appendix 1

## Completed Public Green Stormwater Infrastructure Projects

## Completed Public Green Infrastructure Reporting Metrics

The Public Completed Projects reporting format and metric definitions are described in Table 1 below.

**Table 1: Public Reporting Metric Definitions**

| Metric | Definition |
|---|---|
| **Work Number** | Work Number is a unique assigned identifier from the CIPIT program. A CIPIT work number is attached to construction proposals, bids, work orders, contracts and invoices. |
| **Project ID** | This is a unique number, which is assigned automatically by the system when the project is created. |
| **System Number** | Unique identifier for system. Composed of the project ID and the System ID. |
| **Construction Completion Date** | Date PWD inspector confirmed completion of GSI system. |
| **Storage Volume** | The volume of runoff managed by the system. For all systems, the entire depth of the system is counted, except for detention/slow-release systems that are completely lined with an impermeable liner. For those systems, only the depth above the orifice is counted. |
| **New Trees** | Total number of new trees planted in association with a system. This number also includes non-SMP trees, which are trees planted as part of a project but are not part of a stormwater management system. |
| **Drainage Area (acres)** | Area, in square footage, of impervious and/or pervious surface(s) flowing into a system(s) and SMP(s). |
| **Greened Acres (acre-inch)** | Greened Acres is a metric that accounts for the conversion of a highly impervious urban landscape through the implementation of projects that reduce storm water runoff. A Greened Acre is described as an acre of impervious cover connected (tributary) to a combined sewer that subsequently is reconfigured to utilize green stormwater infrastructure to manage at least one inch of stormwater runoff. If storage is provided, systems can credit up to two inches of the stormwater runoff from that acre. The best available Greened Acre value is pulled from the database for regulatory reporting. |
| **SMP Type(s)** | A Stormwater Management Practice (SMP) is a technique that controls the rate and volume of stormwater runoff and/or improves runoff water quality. Multiple SMP types can be grouped together in a larger GSI system. The SMP types were originally defined in Table 2-1 of the IAMP. |
| **Program** | Current public programs which a greened acre can be assigned to include:<br>• Alleys/Driveways<br>• Campuses<br>• Facilities<br>• Industry and Business<br>• Open Space<br>• Parking<br>• Schools<br>• Streets<br>• Vacant Land |

| Metric | Definition |
|---|---|
| **Green Construction Cost** | Projects with a status of Construction Complete will have a finalized cost of construction provided. |
| **Partner(s)** | External entities involved in a project. |
| **Watershed** | The City of Philadelphia watershed where the project is located. Four of the City's seven watersheds fall at least partially within the combined sewer area. These watersheds are:<br>• Cobbs-Darby Creek Watershed<br>• Delaware Direct Watershed<br>• Tookany/Tacony-Frankford Creek Watershed<br>• Schuylkill River Watersheds |

**Table 2: Public SMP Definitions**

| Public SMP Type Definitions | |
|---|---|
| **Field/Metric** | **Definition/Purpose** |
| **Basin*** | A stormwater basin is a basin or depression that is vegetated with mowed grass. It is designed to detain and release stormwater runoff and/or infiltrate where feasible. |
| **Blue Roof** | A blue roof is a storage system designed into a roof surface such that the roof retains stormwater. Blue roofs are designed to reduce the rate of stormwater runoff. |
| **Bump-out*** | A stormwater bump-out is a vegetated curb extension that intercepts gutter flow. It is designed to detain and release stormwater runoff and/or infiltrate where feasible. |
| **Cistern/Rain Barrel** | A cistern/rain barrel is a tank or storage receptacle that captures and stores runoff and can thereby reduce runoff volume. The stored water may be used to serve a variety of non-potable water needs (e.g., irrigation). |
| **Depaving** | Depaving projects remove existing impervious pavement and restore the surface with grass, other types of vegetation, or loose materials (stone, mulch, etc.) such that the area can thereafter be considered pervious area. Depaving projects remove contributing impervious area from the sewer system. |
| **Drainage Well** | A stormwater drainage well is manhole structure designed to manage stormwater runoff by receiving stormwater from upstream collection and pretreatment systems and then discharging the stormwater into the surrounding soils through perforations in the manhole. It is designed to infiltrate stormwater. |
| **Green Gutter** | A green gutter is a narrow and shallow landscaped strip along a street's curb line. It is designed to manage stormwater runoff by placing the top of the planting media in the green gutter lower than the street's gutter elevation allowing stormwater runoff from both the street and sidewalk to flow directly into the green gutter. It is designed to slowly infiltrate stormwater. |
| **Green Roof** | A green roof is a vegetated surface installed over a roof surface. |
| **Infiltration/Storage Trench** | An infiltration/storage trench is a subsurface structure designed to detain and release stormwater runoff and/or infiltrate where feasible. |
| **Non-SMP Tree** | A non-SMP tree is a planted tree that does not have stormwater directed to it. |
| **Pervious Paving** | Pervious paving is a hard permeable surface commonly composed of concrete, asphalt or pavers. It is designed to detain and release stormwater runoff and/or infiltrate where feasible. |
| **Planter*** | A stormwater planter is a structure filled with soil media and planted with vegetation or trees. It is designed to detain and release stormwater runoff and/or infiltrate where feasible. Planters often contain curb edging or fencing as barrier protection around the planter. |

| Public SMP Type Definitions | |
|---|---|
| **Rain Garden** | A rain garden is a shallow vegetated area designed to detain and release stormwater runoff and/or infiltrate where feasible. Rain gardens may also be referred to as bioinfiltration basins and bio-retention basins. They are typically integrated into landscape features (e.g. median strips) and are non-mowed areas. |
| **Stormwater Tree** | A stormwater tree is planted in a specialized tree pit that has stormwater runoff directed to its pit. It is designed to manage stormwater by placing the top of the planting media in a tree pit lower than the street's gutter elevation and connecting the tree pit to an inlet which directs runoff from the street into the tree pit. It is designed to detain and release stormwater runoff and/or infiltrate where feasible. |
| **Swale** | A swale is a channel designed to convey stormwater. It can be designed to attenuate and/or infiltrate where feasible. |
| **Tree Trench*** | A stormwater tree trench is a subsurface infiltration/storage trench that is planted with trees. They are typically linear features that are constructed between the curb and the sidewalk. It is designed to detain and release stormwater runoff and/or infiltrate where feasible. |
| **Wetland*** | A stormwater wetland is a vegetated basin designed principally for pollutant removal. It typically holds runoff for periods longer than 72 hours and may include a permanent pool. Wetlands can also detain and release stormwater runoff. |

*The word 'stormwater' was previously included in these types but was removed because it was redundant.

**Table 3: Completed Public Green Stormwater Infrastructure Projects**

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20391 | 1056 | 1056-1 | Ashville/Ditman/Rhawn etal | 04-May-20 | Combined | 2462 | 11 | 0.345 | 0.7 | Tree Trench | Streets | $552,000.00 | | Delaware,Pennypack |
| | | 1056-2 | | 04-May-20 | Combined | 4438 | 11 | 0.811 | 1.6 | Tree Trench | Streets | | | Delaware,Pennypack |
| | | 1056-3 | | 04-May-20 | Combined | 2774 | 11 | 0.435 | 0.8 | Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| 20400 | 306 | 306-1 | Ontario, "A" - Glenwood / Glenwood | 24-Mar-17 | Combined | 820 | 9 | 0.13 | 0.3 | Tree Trench | Streets | $411,000.00 | | Delaware |
| | | 306-2 | | 24-Mar-17 | Combined | 574 | 9 | 0.103 | 0.2 | Tree Trench | Streets | | | Delaware |
| | | 306-3 | | 24-Mar-17 | Combined | 1287.35 | 9 | 0.225 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 306-4 | | 24-Mar-17 | Combined | 1763 | 9 | 0.312 | 0.6 | Tree Trench | Streets | | | Delaware |
| | | 306-5 | | 24-Mar-17 | Combined | 1000.35 | 9 | 0.176 | 0.3 | Tree Trench | Streets | | | Delaware |
| 20422 | 517 | 517-1 | Woodland / 56th | 06-May-16 | Combined | 1684 | 5 | 0.157 | 0.3 | Tree Trench | Streets | $175,000.00 | | Schuylkill |
| | | 517-2 | | 06-May-16 | Combined | 2393.62 | 5 | 0.341 | 0.7 | Tree Trench | Streets | | | Schuylkill |
| 20437 | 1124 | 1124-1 | Berks / Montgomery / 6th | 21-Apr-25 | Combined | 3267 | 15 | 0.838 | 1.1 | Infiltration/Storage Trench | Streets | $156,000.00 | | Delaware |
| | | 1124-2 | | 21-Apr-25 | Combined | 896 | 15 | 0.131 | 0.3 | Tree Trench | Streets | | | Delaware |
| | | 1124-3 | | 21-Apr-25 | Combined | 2199 | 15 | 0.386 | 0.7 | Tree Trench | Streets | | | Delaware |
| | | 1124-4 | | 21-Apr-25 | Combined | 1034 | 15 | 0.218 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1124-5 | | 21-Apr-25 | Combined | 2428 | 15 | 0.615 | 0.8 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1124-6 | | 21-Apr-25 | Combined | 1969 | 15 | 0.241 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1124-7 | | 21-Apr-25 | Combined | 1596 | 15 | 0.337 | 0.5 | Tree Trench | Streets | | | Delaware |
| 20439 | 584 | 584-1 | Ellsworth / 20th etal | 07-Nov-18 | Combined | 1683.06 | 10 | 0.268 | 0.5 | Tree Trench | Streets | $577,000.00 | | Delaware,Schuylkill |
| | | 584-2 | | 07-Nov-18 | Combined | 1748 | 10 | 0.228 | 0.5 | Tree Trench | Streets | | | Delaware,Schuylkill |
| | | 584-3 | | 07-Nov-18 | Combined | 1150 | 10 | 0.172 | 0.3 | Tree Trench | Streets | | | Delaware,Schuylkill |
| | | 584-5 | | 07-Nov-18 | Combined | 1527 | 10 | 0.251 | 0.5 | Tree Trench | Streets | | | Delaware,Schuylkill |
| 20443 | 411 | 411-1 | Juniata : Cayuga/Claridge/Lawndale etal Ferko Playground | 08-Dec-17 | Combined | 41803.92 | 0 | 7.215 | 13.3 | Bumpout, Infiltration/Storage Trench | Open Space | $2,717,000.00 | Philadelphia Department of Parks & Recreation | TTF |
| 20444 | 563 | 563-1 | Corinthian / Fairmount | 26-Mar-19 | Combined | 3779 | 4 | 0.879 | 1.3 | Tree Trench | Streets | $688,000.00 | | Delaware,Schuylkill |
| | | 563-2 | | 26-Mar-19 | Combined | 3935 | 4 | 0.618 | 1.2 | Tree Trench | Streets | | | Delaware,Schuylkill |
| | | 563-3 | | 26-Mar-19 | Combined | 2442 | 4 | 0.357 | 0.7 | Infiltration/Storage Trench | Streets | | | Delaware,Schuylkill |
| | | 563-4 | | 26-Mar-19 | Combined | 1382 | 4 | 0.191 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware,Schuylkill |
| 20456 | 994 | 994-1 | Tulpehocken / Mansfield / Lowber / Duval / Johnson | 14-Dec-17 | Combined | 3103 | 0 | 0.47 | 0.9 | Infiltration/Storage Trench | Streets | $548,000.00 | | TTF |
| | | 994-2 | | 14-Dec-17 | Combined | 1131 | 0 | 0.277 | 0.4 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 994-3 | | 14-Dec-17 | Combined | 1302 | 0 | 0.414 | 0.5 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 994-4 | | 14-Dec-17 | Combined | 814 | 0 | 0.137 | 0.3 | Infiltration/Storage Trench | Streets | | | TTF |
| 20458 | 1006 | 1006-1 | Bridge/Creston/Darrah/Penn | 23-Apr-18 | Combined | 1886 | 7 | 0.308 | 0.6 | Tree Trench | Streets | $1,319,000.00 | | Delaware |
| | | 1006-2 | | 23-Apr-18 | Combined | 4702 | 7 | 0.627 | 1.3 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1006-3 | | 23-Apr-18 | Combined | 2459 | 7 | 0.31 | 0.6 | Tree Trench | Streets | | | Delaware |
| | | 1006-4 | | 23-Apr-18 | Combined | 2122 | 7 | 0.299 | 0.6 | Tree Trench | Streets | | | Delaware |
| | | 1006-5 | | 23-Apr-18 | Combined | 2299 | 7 | 0.421 | 0.8 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1006-6 | | 23-Apr-18 | Combined | 2855 | 7 | 0.681 | 1.0 | Infiltration/Storage Trench | Streets | | | Delaware |
| 20461 | 1066 | 1066-1 | Frankford / Pacific / Wheatsheaf | 22-Aug-16 | Combined | 588 | 0 | 0.128 | 0.2 | Infiltration/Storage Trench | Streets | $570,000.00 | | Delaware,TTF |
| | | 1066-2 | | 22-Aug-16 | Combined | 1112 | 0 | 0.194 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1066-3 | | 22-Aug-16 | Combined | 1479.84 | 0 | 0.279 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1066-4 | | 22-Aug-16 | Combined | 1092.937 | 0 | 0.243 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1066-5 | | 22-Aug-16 | Combined | 2400 | 0 | 0.458 | 0.8 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1066-6 | | 22-Aug-16 | Combined | 1084 | 0 | 0.242 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| 20475 | 1042 | 1042-1 | 31st / 34th / 35th / Wharton | 06-Aug-21 | Combined | 1682.94 | 4 | 0.262 | 0.5 | Tree Trench | Streets | $318,000.00 | | Schuylkill |
| 20480 | 1266 | 1266-1 | Somerset / 7th | 05-Jun-20 | Combined | 3343.45 | 4 | 0.542 | 1.0 | Tree Trench | Streets | $225,000.00 | | Delaware |
| 20483 | 1294 | 1294-1 | Fanshawe/Longshore/Unruh/Bingham/Kerper | 30-Mar-22 | Combined | 1191.63 | 0 | 0.135 | 0.3 | Infiltration/Storage Trench | Streets | $143,000.00 | | Delaware |
| | | 1294-2 | | 30-Mar-22 | Combined | 1257.86 | 0 | 0.201 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20486 | 1282 | 1282-1 | Elbridge/Gilham/Unruh etal | 19-Mar-24 | Combined | 628 | 0 | 0.153 | 0.3 | Infiltration/Storage Trench | Streets | $280,000.00 | | Delaware |
| | | 1282-2 | | 19-Mar-24 | Combined | 734 | 0 | 0.148 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1282-3 | | 19-Mar-24 | Combined | 715 | 0 | 0.142 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1282-4 | | 19-Mar-24 | Combined | 583 | 0 | 0.147 | 0.2 | Infiltration/Storage Trench | Streets | | | Delaware |
| 20489 | 1136 | 1136-1 | Angora / Cedar / Yewdall / 57th | 26-Feb-19 | Combined | 2464.47 | 0 | 0.414 | 0.8 | Infiltration/Storage Trench | Streets | $388,000.00 | | Cobbs-Darby |
| | | 1136-2 | | 26-Feb-19 | Combined | 1047.53 | 0 | 0.223 | 0.4 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 1136-3 | | 26-Feb-19 | Combined | 924.42 | 0 | 0.234 | 0.3 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| 20490 | 1206 | 1206-1 | Wishart/Clementine/Elkhart/Helen/Jasper | 18-Jan-19 | Combined | 849.65 | 0 | 0.161 | 0.3 | Infiltration/Storage Trench | Streets | $315,000.00 | | Delaware |
| | | 1206-2 | | 18-Jan-19 | Combined | 1194.19 | 0 | 0.147 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1206-3 | | 18-Jan-19 | Combined | 1171.84 | 0 | 0.278 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| 20497 | 1215 | 1215-1 | 44th / Larchwood / Osage / Pine | 22-Nov-19 | Combined | 1437 | 4 | 0.177 | 0.4 | Tree Trench | Streets | $116,000.00 | | Schuylkill |
| 20499 | 1248 | 1248-1 | Crease / Frankford / Mascher / Thompson / Girard | 26-May-21 | Combined | 1174.71 | 0 | 0.314 | 0.4 | Infiltration/Storage Trench | Streets | $248,000.00 | | Delaware |
| 20513 | 1338 | 1338-1 | Mayfair I / Tyson / Brighton / Princeton / Et al | 14-Oct-22 | Combined | 3249.99 | 0 | 0.724 | 0.9 | Infiltration/Storage Trench | Streets | $285,000.00 | | Delaware |
| 20559 | 1463 | 1463-1 | B /Cambria / Somerset | 14-Nov-24 | Combined | 923.97 | 4 | 0.166 | 0.3 | Tree Trench | Streets | $139,000.00 | - | Delaware |
| 40330 | 289 * | 289-1 | Coral, Sergeant-Huntingdon / Sepviva, Susquehanna - Dauphin | 27-Jan-10 | Combined | 962 | 17 | 0.63 | 0.3 | Infiltration/Storage Trench | Streets | $209,000.00 | | Delaware |
| | | 289-10 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 289-11 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 289-12 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 289-13 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 289-14 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 289-15 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 289-16 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 289-17 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 289-18 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 289-2 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 289-3 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 289-4 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 289-5 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 289-6 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 289-7 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 289-8 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 289-9 | | 27-Jan-10 | Combined | 37.6 | 17 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| 40368 | 234 | 234-1 | Franklin, Berks - Norris / Norris - Diamond /16th Street / Dauphin Street | 24-Oct-13 | Combined | 601 | 32 | 0.201 | 0.2 | Tree Trench | Streets | $185,000.00 | | Delaware |
| | | 234-2 | | 24-Oct-13 | Combined | 1128 | 32 | 0.287 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 234-3 | | 24-Oct-13 | Combined | 525 | 32 | 0.175 | 0.2 | Tree Trench | Streets | | | Delaware |
| | | 234-4 | | 24-Oct-13 | Combined | 2343 | 32 | 0.387 | 0.8 | Tree Trench | Streets | | | Delaware |
| | | 234-5 | | 24-Oct-13 | Combined | 2618 | 32 | 0.387 | 0.8 | Tree Trench | Streets | | | Delaware |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40577 | 441 * | 441-1 | Wagner St.,12th - Broad; Rockland St., 11th - Broad | 08-Apr-11 | Combined | 480 | 21 | 0.363 | 0.2 | Infiltration/Storage Trench | Streets | $924,000.00 | | TTF |
| | | 441-11 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-12 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-13 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-14 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-15 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-16 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-2 | | 08-Apr-11 | Combined | 3160 | 21 | 2.047 | 1.0 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 441-21 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-22 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-25 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-27 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-28 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-3 | | 08-Apr-11 | Combined | 1902 | 21 | 1.697 | 0.6 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 441-31 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-32 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-38 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-39 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-42 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-43 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-45 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-5 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-7 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| | | 441-8 | | 08-Apr-11 | Combined | 37.6 | 21 | 0.01 | 0.0 | Stormwater Tree | Streets | | | TTF |
| 40599 | 233 | 233-1 | Belgrade / Crease / Marlborough | 20-Dec-12 | Combined | 847 | 1 | 0.224 | 0.3 | Infiltration/Storage Trench | Streets | $27,000.00 | | Delaware |
| | | 233-2 | | 20-Dec-12 | Combined | 416 | 1 | 0.114 | 0.1 | Infiltration/Storage Trench | Streets | | | Delaware |
| 40607 | 235 | 235-2 | Northern Liberties Flood Relief | 15-Jul-16 | Combined | 530 | 13 | 0.178 | 0.2 | Tree Trench | Streets | $147,000.00 | | Delaware |
| | | 235-4 | | 15-Jul-16 | Combined | 791 | 13 | 0.139 | 0.3 | Tree Trench | Streets | | | Delaware |
| 40659 | 207 | 207-1 | Waterview Rec Center Stormwater Management Improvements | 01-Jul-08 | Combined | 786.1 | 4 | 0.283 | 0.5 | Pervious Paving, Tree Trench | Streets | $50,000.00 | Pennsylvania Horticulture Society,Philadelphia Department of Recreation | TTF |
| 40662 | 218 | 218-3 | Green Streets Pilot Project - Passyunk Avenue Locations | 05-Mar-13 | Combined | 5137 | 0 | 0.656 | 1.3 | Bumpout | Streets | $0.00 | Philadelphia Streets Department | Schuylkill |
| 40750 | 304 | 304-1 | Adams / Church / Penn | 09-Mar-20 | Combined | 710 | 1 | 0.16 | 0.3 | Tree Trench | Streets | $317,000.00 | | TTF |
| | | 304-2 | | 09-Mar-20 | Combined | 1184 | 1 | 0.216 | 0.4 | Infiltration/Storage Trench | Streets | | | TTF |
| 40755 | 305 | 305-1 | Ellsworth / Federal / Wharton | 25-Sep-19 | Combined | 1594 | 2 | 0.277 | 0.5 | Tree Trench | Streets | $233,000.00 | Philadelphia Department of Parks & Recreation | Delaware |
| | | 305-2 | | 25-Sep-19 | Combined | 1251 | 2 | 0.195 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| 40771 | 301 | 301-2 | Dauphin / Sepviva etal | 26-Aug-15 | Combined | 1444 | 10 | 0.22 | 0.4 | Tree Trench | Streets | $133,000.00 | | Delaware |
| 40773 | 469 | 469-1 | Galloway/Roseberry etal | 13-Jun-18 | Combined | 1311.6 | 5 | 0.194 | 0.4 | Tree Trench | Streets | $105,000.00 | | Delaware |
| 40784 | 406 | 406-1 | Conestoga / Thompson | 25-Nov-19 | Combined | 807 | 0 | 0.187 | 0.3 | Infiltration/Storage Trench | Streets | $169,000.00 | | Schuylkill |
| | | 406-2 | | 25-Nov-19 | Combined | 1067.24 | 0 | 0.187 | 0.4 | Infiltration/Storage Trench | Streets | | | Schuylkill |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40795 | 443 | 443-1 | Cobbs Creek GSI | 11-Jun-20 | Combined | 2233 | 58 | 0.545 | 1.1 | Rain Garden | Open Space | $3,508,000.00 | Philadelphia Department of Parks & Recreation | Cobbs-Darby |
| | | 443-10 | | 10-Jul-19 | Combined | 4738.27 | 58 | 0.66 | 1.3 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 443-11 | | 10-Jul-19 | Combined | 2016.66 | 58 | 0.282 | 0.6 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 443-12 | | 10-Jul-19 | Combined | 3177.37 | 58 | 0.404 | 0.8 | Bumpout, Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 443-13 | | 10-Jul-19 | Combined | 3428.09 | 58 | 0.608 | 1.1 | Bumpout, Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 443-14 | | 11-Jun-20 | Combined | 8390 | 58 | 1.358 | 2.7 | Basin, Infiltration/Storage Trench, Rain Garden | Open Space | | | Cobbs-Darby |
| | | 443-15 | | 11-Jun-20 | Combined | 1902 | 58 | 0.309 | 0.6 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Cobbs-Darby |
| | | 443-16 | | 11-Jun-20 | Combined | 2135.2 | 58 | 0.354 | 0.7 | Rain Garden | Open Space | | | Cobbs-Darby |
| | | 443-17 | | 11-Jun-20 | Combined | 573 | 58 | 0.091 | 0.2 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 443-18 | | 11-Jun-20 | Combined | 1467.4 | 58 | 0.289 | 0.5 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 443-3 | | 11-Jun-20 | Combined | 1896.66 | 58 | 0.272 | 0.5 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 443-4 | | 11-Jun-20 | Combined | 1862.26 | 58 | 0.264 | 0.5 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 443-5 | | 11-Jun-20 | Combined | 4533 | 58 | 0.67 | 1.3 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Cobbs-Darby |
| | | 443-6 | | 11-Jun-20 | Combined | 3917 | 58 | 0.437 | 0.9 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Cobbs-Darby |
| | | 443-7 | | 10-Jul-19 | Combined | 1008 | 58 | 0.171 | 0.3 | Rain Garden | Open Space | | | Cobbs-Darby |
| | | 443-8 | | 10-Jul-19 | Combined | 2389.92 | 58 | 0.33 | 0.7 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 443-9 | | 10-Jul-19 | Combined | 4195.94 | 58 | 0.58 | 1.2 | Tree Trench | Streets | | | Cobbs-Darby |
| 40796 | 1086 | 1086-1 | Sepviva Street | 27-Dec-12 | Combined | 37.6 | 32 | 0.017 | 0.0 | Stormwater Tree | Streets | $150,000.00 | | Delaware |
| | | 1086-10 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.03 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-11 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.017 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-12 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.015 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-13 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.014 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-14 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.007 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-15 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.007 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-16 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.014 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-17 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.023 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-18 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.014 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-19 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.014 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-2 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.013 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-20 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.014 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-21 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.014 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-22 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.014 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-23 | | 27-Dec-12 | Combined | 28 | 32 | 0.014 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-24 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.005 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-25 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.03 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-26 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.01 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-27 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.011 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-3 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.001 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-6 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.012 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-7 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.029 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1086-9 | | 27-Dec-12 | Combined | 37.6 | 32 | 0.022 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| 40798 | 518 | 518-1 | Ludlow / Hirst / Robinson | 16-Jul-20 | Combined | 835 | 28 | 0.241 | 0.3 | Infiltration/Storage Trench | Streets | $465,000.00 | | Cobbs-Darby |
| | | 518-2 | | 16-Jul-20 | Combined | 932 | 28 | 0.164 | 0.3 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 518-3 | | 16-Jul-20 | Combined | 661 | 28 | 0.184 | 0.2 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 518-4 | | 16-Jul-20 | Combined | 923 | 28 | 0.252 | 0.3 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40799 | 556 | 556-1 | Cleveland/Gratz/Greene/Roberts | 01-Nov-18 | Combined | 2883.99 | 0 | 0.393 | 0.8 | Infiltration/Storage Trench | Streets | $144,000.00 | | TTF |
| | | 556-2 | | 01-Nov-18 | Combined | 1433 | 0 | 0.426 | 0.5 | Infiltration/Storage Trench | Streets | | | TTF |
| 40800 | 502 | 502-1 | 59th St / Edgewood St / Vogdes St / Yocum St / Trinity St | 31-Jul-20 | Combined | 1735.31 | 6 | 0.345 | 0.5 | Tree Trench | Streets | $355,000.00 | | Cobbs-Darby |
| 40816 | 554 | 554-1 | Weikel / Witte / Gaul | 07-Jan-19 | Combined | 3795 | 5 | 0.362 | 0.7 | Tree Trench | Streets | $710,000.00 | | Delaware |
| | | 554-2 | | 07-Jan-19 | Combined | 2350 | 5 | 0.325 | 0.7 | Stormwater Tree, Tree Trench | Streets | | | Delaware |
| | | 554-3 | | 07-Jan-19 | Combined | 1714 | 5 | 0.293 | 0.6 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 554-4 | | 07-Jan-19 | Combined | 653 | 5 | 0.116 | 0.2 | Tree Trench | Streets | | | Delaware |
| | | 554-5 | | 07-Jan-19 | Combined | 638 | 5 | 0.115 | 0.2 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 554-6 | | 07-Jan-19 | Combined | 1058 | 5 | 0.201 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 554-7 | | 07-Jan-19 | Combined | 787 | 5 | 0.204 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware |
| 40817 | 1293 | 1293-1 | C/F/Mayfield/Rosehill/Hartville | 29-Jan-18 | Combined | 1002 | 0 | 0.126 | 0.3 | Infiltration/Storage Trench | Streets | $270,000.00 | | Delaware |
| | | 1293-2 | | 29-Jan-18 | Combined | 1907 | 0 | 0.268 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1293-3 | | 29-Jan-18 | Combined | 3038 | 0 | 0.569 | 0.9 | Infiltration/Storage Trench | Streets | | | Delaware |
| 40821 | 504 | 504-2 | 9th / Mifflin / Pierce | 19-Dec-18 | Combined | 1194 | 2 | 0.171 | 0.3 | Tree Trench | Streets | $567,000.00 | | Delaware |
| 40824 | 525 | 525-1 | 52nd / 53rd / Gainor | 20-Mar-20 | Combined | 1472.65 | 11 | 0.288 | 0.5 | Tree Trench | Streets | $335,000.00 | | Schuylkill |
| | | 525-2 | | 20-Mar-20 | Combined | 1004.66 | 11 | 0.27 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 525-3 | | 20-Mar-20 | Combined | 2462.6 | 11 | 0.454 | 0.9 | Tree Trench | Streets | | | Schuylkill |
| 40826 | 1063 | 1063-1 | Parrish / Union / 41st | 04-Oct-24 | Combined | 2146 | 17 | 0.338 | 0.7 | Tree Trench | Streets | $418,000.00 | | Schuylkill |
| | | 1063-2 | | 04-Oct-24 | Combined | 3404 | 17 | 0.596 | 1.1 | Tree Trench | Streets | | | Schuylkill |
| 40828 | 657 | 657-1 | Brandywine / Green / Melon / North | 07-Jun-17 | Combined | 1217 | 2 | 0.337 | 0.4 | Tree Trench | Streets | $113,000.00 | | Delaware |
| 40829 | 990 | 990-1 | Galloway / Orianna / Leithgow | 27-Sep-19 | Combined | 1255 | 0 | 0.236 | 0.4 | Infiltration/Storage Trench | Streets | $249,000.00 | | Delaware |
| | | 990-2 | | 27-Sep-19 | Combined | 635 | 0 | 0.168 | 0.2 | Infiltration/Storage Trench | Streets | | | Delaware |
| 40839 | 995 | 995-1 | 50th / Rodman / Walton | 25-Jan-23 | Combined | 1433.53 | 6 | 0.347 | 0.5 | Tree Trench | Streets | $411,000.00 | | Cobbs-Darby,Schuylkill |
| | | 995-2 | | 25-Jan-23 | Combined | 1420.39 | 6 | 0.323 | 0.5 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 995-3 | | 25-Jan-23 | Combined | 1721.59 | 6 | 0.464 | 0.5 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| 40844 | 989 | 989-1 | Master / Wanamaker / Hobart | 03-Jul-19 | Combined | 2669.66 | 0 | 0.605 | 1.2 | Infiltration/Storage Trench | Streets | $182,000.00 | | Schuylkill |
| | | 989-2 | | 15-Oct-20 | Combined | 1918.55 | 0 | 0.507 | 0.7 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| 40856 | 1060 | 1060-1 | Nicholas / 28th / Myrtlewood | 09-Dec-22 | Combined | 1197 | 6 | 0.305 | 0.4 | Tree Trench | Streets | $118,000.00 | | Schuylkill |
| 40862 | 1064 | 1064-1 | 8th / 12th / Lemon / North | 27-May-20 | Combined | 2067.81 | 6 | 0.318 | 0.6 | Tree Trench | Streets | $263,000.00 | | Delaware |
| | | 1064-2 | | 27-May-20 | Combined | 1583.2 | 6 | 0.233 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware |
| 40863 | 1010 | 1010-1 | Bouvier / Monument / Willington / 17th | 03-Jun-19 | Combined | 1788.4 | 3 | 0.292 | 0.6 | Infiltration/Storage Trench | Streets | $489,000.00 | | Delaware |
| | | 1010-2 | | 03-Jun-19 | Combined | 1109 | 3 | 0.184 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1010-3 | | 03-Jun-19 | Combined | 1333.5 | 3 | 0.178 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1010-4 | | 03-Jun-19 | Combined | 530 | 3 | 0.101 | 0.2 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1010-5 | | 03-Jun-19 | Combined | 2034.34 | 3 | 0.23 | 0.5 | Tree Trench | Streets | | | Delaware |
| 40865 | 1057 | 1057-2 | Crowson / Stokes / Woodlawn | 30-Aug-18 | Combined | 675.24 | 0 | 0.162 | 0.2 | Infiltration/Storage Trench | Streets | $534,000.00 | | TTF |
| | | 1057-4 | | 30-Aug-18 | Combined | 970 | 0 | 0.262 | 0.3 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1057-5 | | 30-Aug-18 | Combined | 1571.63 | 0 | 0.394 | 0.5 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1057-6 | | 30-Aug-18 | Combined | 503.7 | 0 | 0.124 | 0.2 | Infiltration/Storage Trench | Streets | | | TTF |
| 40866 | 1065 | 1065-1 | Creighton / Spring / Vogdes / Race | 17-Sep-21 | Combined | 1462.22 | 4 | 0.292 | 0.5 | Tree Trench | Streets | $134,000.00 | | Cobbs-Darby |
| 40869 | 1289 | 1289-1 | Hicks / Rowan / St Paul etal | 11-Dec-23 | Combined | 634.43 | 0 | 0.139 | 0.2 | Infiltration/Storage Trench | Streets | $171,000.00 | | TTF |
| | | 1289-2 | | 11-Dec-23 | Combined | 673.7 | 0 | 0.121 | 0.2 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1289-3 | | 11-Dec-23 | Combined | 1687.48 | 0 | 0.268 | 0.5 | Infiltration/Storage Trench | Streets | | | TTF |
| 40877 | 1550 | 1550-1 | I-95 Section AF2 | 23-Oct-23 | Combined | 824 | 0 | 0.169 | 0.3 | Infiltration/Storage Trench | Streets | Unknown | - | Delaware |
| | | 1550-2 | | 23-Oct-23 | Combined | 757 | 0 | 0.108 | 0.2 | Infiltration/Storage Trench | Streets | | | Delaware |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40888 | 1011 | 1011-1 | SR 3037, Section JFK - Rehab of bridges over 21st, 22nd, & 23rd | 29-Jan-20 | Combined | 1868 | 19 | 0.531 | 0.6 | Tree Trench | Streets | Unknown | | Schuylkill |
| | | 1011-10 | | 29-Jan-20 | Combined | 750 | 19 | 0.242 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1011-2 | | 29-Jan-20 | Combined | 906 | 19 | 0.245 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1011-3 | | 29-Jan-20 | Combined | 1211 | 19 | 0.226 | 0.4 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1011-4 | | 29-Jan-20 | Combined | 831 | 19 | 0.224 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1011-5 | | 29-Jan-20 | Combined | 914 | 19 | 0.182 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1011-6 | | 29-Jan-20 | Combined | 877 | 19 | 0.187 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1011-7 | | 29-Jan-20 | Combined | 837 | 19 | 0.216 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1011-8 | | 29-Jan-20 | Combined | 1157 | 19 | 0.274 | 0.4 | Tree Trench | Streets | | | Schuylkill |
| | | 1011-9 | | 29-Jan-20 | Combined | 899 | 19 | 0.195 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| 40891 | 1062 | 1062-2 | Wynnefield, Monument - 170' W. of 50th | 25-May-17 | Combined | 1859 | 13 | 0.334 | 0.6 | Tree Trench | Streets | $595,000.00 | | Schuylkill |
| | | 1062-3 | | 25-May-17 | Combined | 2183.5 | 13 | 0.607 | 0.8 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1062-4 | | 25-May-17 | Combined | 2926 | 13 | 0.605 | 0.9 | Tree Trench | Streets | | | Schuylkill |
| | | 1062-5 | | 25-May-17 | Combined | 3276 | 13 | 0.425 | 0.9 | Tree Trench | Streets | | | Schuylkill |
| | | 1062-6 | | 25-May-17 | Combined | 808.55 | 13 | 0.181 | 0.2 | Tree Trench | Streets | | | Schuylkill |
| | | 1062-7 | | 25-May-17 | Combined | 5457.5 | 13 | 0.791 | 1.6 | Tree Trench | Streets | | | Schuylkill |
| 40900 | 1058 | 1058-1 | Medary Avenue from 13th Street to Broad Street | 31-May-16 | Combined | 1604.52 | 0 | 0.334 | 0.6 | Infiltration/Storage Trench | Streets | $161,000.00 | | TTF |
| | | 1058-2 | | 31-May-16 | Combined | 868 | 0 | 0.165 | 0.3 | Infiltration/Storage Trench | Streets | | | TTF |
| 40903 | 656 | 656-1 | Market / 43rd / Ludlow / 45th | 07-Sep-16 | Combined | 541.44 | 3 | 0.147 | 0.2 | Tree Trench | Streets | $71,000.00 | | Schuylkill |
| 40906 | 1246 | 1246-1 | Church / Orchard / Ruan / Salem | 12-Mar-20 | Combined | 866.66 | 0 | 0.142 | 0.3 | Infiltration/Storage Trench | Streets | $122,000.00 | | TTF |
| 40918 | 1149 | 1149-1 | Loudon / Carlisle | 28-Sep-17 | Combined | 1379 | 0 | 0.35 | 0.5 | Infiltration/Storage Trench | Streets | $134,000.00 | | TTF |
| | | 1149-2 | | 28-Sep-17 | Combined | 572 | 0 | 0.145 | 0.2 | Infiltration/Storage Trench | Streets | | | TTF |
| 40928 | 1275 | 1275-1 | SR1026 Section H04 | 06-Sep-19 | Combined | 3521 | 28 | 0.472 | 0.9 | Tree Trench | Streets | Unknown | | TTF |
| | | 1275-2 | | 06-Sep-19 | Combined | 5371 | 28 | 0.691 | 1.4 | Tree Trench | Streets | | | TTF |
| | | 1275-3 | | 06-Sep-19 | Combined | 1731 | 28 | 0.211 | 0.4 | Tree Trench | Streets | | | TTF |
| | | 1275-4 | | 06-Sep-19 | Combined | 2520 | 28 | 0.454 | 0.8 | Tree Trench | Streets | | | TTF |
| | | 1275-5 | | 06-Sep-19 | Combined | 1083 | 28 | 0.141 | 0.3 | Tree Trench | Streets | | | TTF |
| | | 1275-6 | | 06-Sep-19 | Combined | 2578 | 28 | 0.317 | 0.6 | Tree Trench | Streets | | | TTF |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40938 | 1423 | 1423-1 | I-95 Section AF1 | 04-Aug-20 | Combined | 2133 | 24 | 0.626 | 1.3 | Infiltration/Storage Trench | Streets | Unknown | - | Delaware |
| | | 1423-10 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.062 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-11 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.141 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-12 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.043 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-13 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.146 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-14 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.179 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-15 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.071 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-16 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.083 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-17 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.079 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-18 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.025 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-19 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.103 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-2 | | 04-Aug-20 | Combined | 1897 | 24 | 0.357 | 0.7 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1423-20 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.033 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-21 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.072 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-22 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.039 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-23 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.041 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-24 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.116 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-25 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.039 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-26 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.011 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-27 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.008 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-28 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.149 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-29 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.105 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-6 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.051 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-7 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.036 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-8 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.14 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 1423-9 | | 04-Aug-20 | Combined | 26.92 | 24 | 0.114 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| 40945 | 1292 | 1292-1 | Univ. City HS Redev. Infrastructure Proj | 07-Apr-23 | Combined | 639 | 23 | 0.17 | 0.2 | Tree Trench | Streets | Unknown | | Schuylkill |
| | | 1292-10 | | 07-Apr-23 | Combined | 625 | 23 | 0.181 | 0.2 | Tree Trench | Streets | | | Schuylkill |
| | | 1292-2 | | 07-Apr-23 | Combined | 639 | 23 | 0.176 | 0.2 | Tree Trench | Streets | | | Schuylkill |
| | | 1292-3 | | 07-Apr-23 | Combined | 514 | 23 | 0.117 | 0.2 | Tree Trench | Streets | | | Schuylkill |
| | | 1292-4 | | 07-Apr-23 | Combined | 558 | 23 | 0.149 | 0.2 | Tree Trench | Streets | | | Schuylkill |
| | | 1292-5 | | 07-Apr-23 | Combined | 577 | 23 | 0.161 | 0.2 | Tree Trench | Streets | | | Schuylkill |
| | | 1292-6 | | 07-Apr-23 | Combined | 878 | 23 | 0.235 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1292-7 | | 07-Apr-23 | Combined | 1426 | 23 | 0.418 | 0.7 | Tree Trench | Streets | | | Schuylkill |
| | | 1292-8 | | 07-Apr-23 | Combined | 1426 | 23 | 0.403 | 0.7 | Tree Trench | Streets | | | Schuylkill |
| | | 1292-9 | | 07-Apr-23 | Combined | 625 | 23 | 0.18 | 0.2 | Tree Trench | Streets | | | Schuylkill |
| 40996 | 1366 | 1366-1 | Thompson / Belgrade / Freedly / Hazzard | 17-Apr-23 | Combined | 1196.04 | 4 | 0.168 | 0.3 | Tree Trench | Streets | $119,000.00 | | Delaware |
| 41034 | 1399 | 1399-1 | Natrona / Napa / Huntingdon | 28-Feb-22 | Combined | 1155.29 | 0 | 0.287 | 0.4 | Infiltration/Storage Trench | Streets | $106,000.00 | - | Schuylkill |
| 41039 | 1455 | 1455-1 | I-95 Section BS1 | 02-Oct-23 | Combined | 1935 | 11 | 0.265 | 0.5 | Tree Trench | Streets | Unknown | - | Delaware |
| | | 1455-2 | | 02-Oct-23 | Combined | 2488 | 11 | 0.389 | 0.8 | Tree Trench | Streets | | | Delaware |
| | | 1455-3 | | 02-Oct-23 | Combined | 1513 | 11 | 0.22 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1455-4 | | 02-Oct-23 | Combined | 1183 | 11 | 0.188 | 0.4 | Tree Trench | Streets | | | Delaware |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50001 | 14 * | 14-1 | Passyunk Square Model Neighborhood | 17-Sep-13 | Combined | 1452 | 0 | 0.452 | 0.5 | Infiltration/Storage Trench, Rain Garden | Streets | $873,000.00 | Department of Recreation,Passyunk Square Civic Association | Delaware |
| | 16 * | 16-1 | | 17-Sep-13 | Combined | 1111.8 | 5 | 0.216 | 0.3 | Tree Trench | Streets | | Department of Recreation,Passyunk Square Civic Association,South Philadelphia Older Adult Center | Delaware |
| | 162 * | 162-1 | | 17-Sep-13 | Combined | 604 | 13 | 0.115 | 0.2 | Bumpout, Tree Trench | Streets | | Department of Recreation | Delaware,Schuylkill |
| | | 162-2 | | 17-Sep-13 | Combined | 1236 | 13 | 0.265 | 0.4 | Bumpout, Tree Trench | Streets | | | Delaware,Schuylkill |
| | | 162-3 | | 17-Sep-13 | Combined | 2040.81 | 13 | 0.407 | 0.7 | Tree Trench | Streets | | | Delaware,Schuylkill |
| | | 162-4 | | 17-Sep-13 | Combined | 1316.13 | 13 | 0.175 | 0.4 | Tree Trench | Streets | | | Delaware,Schuylkill |
| | 313 * | 313-1 | | 17-Sep-13 | Combined | 1452 | 0 | 0.267 | 0.4 | Infiltration/Storage Trench | Streets | | Department of Recreation,Passyunk Square Civic Association,South Philadelphia Older Adult Center | Delaware |
| 50002 | 8 * | 8-2 | New Kensington Model Neighborhood | 04-Nov-11 | Combined | 1681 | 3 | 0.489 | 1.0 | Rain Garden | Streets | $173,000.00 | Department of Recreation,New Kensington Community Development Corporation,Pennsylvania Horticulture Society | Delaware |
| 50003 | 12 * | 12-1 | Northern Liberties Model Neighborhood | 08-Feb-13 | Combined | 163.35 | 7 | 0.097 | 0.1 | Infiltration/Storage Trench | Streets | $455,000.00 | City Play,Mural Arts Program,Northern Liberties Neighborhood Association | Delaware |
| | | 12-3 | | 08-Feb-13 | Combined | 335.5 | 7 | 0.146 | 0.1 | Tree Trench | Streets | | | Delaware |
| | | 12-4 | | 08-Feb-13 | Combined | 478.83 | 7 | 0.071 | 0.1 | Tree Trench | Streets | | | Delaware |
| | 91 * | 91-1 | | 08-Feb-13 | Combined | 1463 | 7 | 0.359 | 0.4 | Bumpout, Tree Trench | Streets | | Northern Liberties Neighborhood Association | Delaware |
| 50005 | 1 * | 1-1 | Green Street Project in 16th Street | 10-Nov-10 | Combined | 1676 | 6 | 0.515 | 0.7 | Tree Trench | Streets | $402,000.00 | Pennsylvania Horticulture Society | Delaware |
| | | 1-2 | | 10-Nov-10 | Combined | 1280 | 6 | 0.29 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1-3 | | 10-Nov-10 | Combined | 600 | 6 | 0.218 | 0.2 | Tree Trench | Streets | | | Delaware |
| | 9 * | 9-1 | | 10-Nov-10 | Combined | 494 | 5 | 0.064 | 0.1 | Tree Trench | Streets | | New Kensington Community Development Corporation,Pennsylvania | Delaware |
| | | 9-2 | | 10-Nov-10 | Combined | 778.8 | 5 | 0.148 | 0.3 | Tree Trench | Streets | | | Delaware |
| | 18 * | 18-1 | | 10-Nov-10 | Combined | 609.4 | 8 | 0.338 | 0.2 | Tree Trench | Streets | | | Schuylkill |
| 50006 | 187 | 187-1 | Columbus Square Park Infrastructure Demonstration Project | 26-May-10 | Combined | 20 | 0 | 0.002 | 0.0 | Planter | Streets | $66,000.00 | Department of Public Property,Department of Recreation,Friends of Columbus Square | Delaware |
| | | 187-2 | | 26-May-10 | Combined | 20 | 0 | 0.002 | 0.0 | Planter | Streets | | | Delaware |
| | | 187-3 | | 26-May-10 | Combined | 882 | 0 | 0.178 | 0.3 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| 50007 | 21 * | 21-1 | Blue Bell Inn Triangle Stormwater Improvements | 31-Oct-13 | Combined | 2066.45 | 12 | 0.595 | 1.2 | Swale | Streets | $278,000.00 | Fairmount Park Commission,Pennsylvania Horticulture Society,Philadelphia Department of Parks & Recreation | Cobbs-Darby |
| 50009 | 20 * | 20-10 | Queen Lane Bumpouts | 14-May-11 | Combined | 1357.2 | 13 | 0.308 | 0.6 | Tree Trench | Streets | Unknown | | TTF |
| 50010 | 19 * | 19-1 | Barry Playground - Tree Trenches | 14-Oct-13 | Combined | 2776.5 | 36 | 0.687 | 0.9 | Tree Trench | Streets | $975,000.00 | Department of Recreation | Schuylkill |
| | | 19-2 | | 14-Oct-13 | Combined | 3979 | 36 | 0.604 | 1.2 | Tree Trench | Streets | | | Schuylkill |
| | | 19-3 | | 14-Oct-13 | Combined | 2180 | 36 | 0.358 | 0.7 | Tree Trench | Streets | | | Schuylkill |
| | | 19-4 | | 14-Oct-13 | Combined | 4463 | 36 | 0.545 | 1.1 | Tree Trench | Streets | | | Schuylkill |
| | | 19-5 | | 14-Oct-13 | Combined | 2745 | 36 | 0.307 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| 50011 | 194 | 194-1 | N. 3rd St and Wildey St | 01-Jun-09 | Combined | 849 | 24 | 0.184 | 0.4 | Rain Garden | Open Space | $22,000.00 | Northern Liberties Neighborhood Association,Pennsylvania Department of Environmental Protection,Pennsylvania Horticulture Society,Philadelphia Department of Parks & Recreation | Delaware |
| 50012 | 186 | 186-1 | Cliveden Park Extended Detention | 01-Oct-07 | Combined | 876.1 | 0 | 0.623 | 0.3 | Rain Garden | Open Space | $175,000.00 | Pennsylvania Department of Environmental Protection,Pennsylvania | TTF |
| | | 186-2 | | 01-Oct-07 | Combined | 3687 | 0 | 0.579 | 1.0 | Rain Garden | Open Space | | | TTF |
| 50013 | 208 | 208-1 | West Mill Creek Stormwater Tree Trench | 01-Jul-06 | Combined | 311 | 4 | 0.244 | 0.1 | Tree Trench | Streets | $66,000.00 | Pennsylvania Department of Environmental Protection,Pennsylvania Horticulture Society,Philadelphia Department of Recreation | Schuylkill |
| | | 208-2 | | 01-Jul-06 | Combined | 456 | 4 | 0.124 | 0.2 | Tree Trench | Streets | | | Schuylkill |
| | | 208-3 | | 01-Jul-06 | Combined | 63 | 4 | 0.03 | 0.0 | Pervious Paving | Streets | | | Schuylkill |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50014 | 181 | 181-1 | 47th and Grays Ferry Rain Garden | 01-Apr-07 | Combined | 1260 | 7 | 0.441 | 0.7 | Rain Garden | Vacant Land | $16,000.00 | Pennsylvania Department of Environmental Protection,Pennsylvania Horticulture Society,University City Green | Schuylkill |
| 50015 | 185 | 185-1 | Clark Park Stormwater Bed | 01-Nov-07 | Combined | 3080 | 0 | 0.746 | 0.9 | Infiltration/Storage Trench | Open Space | Unknown | Pennsylvania Department of Environmental Protection,Pennsylvania Department of Conservation & Natural Resources,Philadelphia Department of Parks & Recreation | Schuylkill |
| 50019 | 154 * | 154-1 | Anna B. Day School, Epiphany of Our Lord, Francis Scott, Dickinson Sq | 25-Nov-14 | Combined | 1853.2 | 15 | 0.365 | 0.7 | Tree Trench | Streets | $948,000.00 | Tookany/Tacony-Frankford Watershed Partnership | TTF |
| | | 154-2 | | 25-Nov-14 | Combined | 2754 | 15 | 0.427 | 0.9 | Tree Trench | Streets | | | TTF |
| | | 154-3 | | 25-Nov-14 | Combined | 2349 | 15 | 0.482 | 1.0 | Tree Trench | Streets | | | TTF |
| | | 154-4 | | 25-Nov-14 | Combined | 2925.8 | 15 | 0.399 | 0.8 | Tree Trench | Streets | | | TTF |
| | 17 * | 17-1 | | 25-Nov-14 | Combined | 2635 | 5 | 0.448 | 0.9 | Bumpout, Infiltration/Storage Trench | Streets | | Department of Recreation,Friends of Dickinson Park,Southeastern Transportation Authority | Delaware |
| | | 17-2 | | 25-Nov-14 | Combined | 1015 | 5 | 0.192 | 0.4 | Tree Trench | Streets | | | Delaware |
| | 79 * | 79-1 | | 25-Nov-14 | Combined | 619.48 | 1 | 0.096 | 0.2 | Infiltration/Storage Trench | Streets | | Lower Moyamensing Civic Association | Delaware |
| | 81 * | 81-1 | | 25-Nov-14 | Combined | 1606 | 2 | 0.331 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 81-2 | | 25-Nov-14 | Combined | 1374 | 2 | 0.227 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware |
| 50020 | 2 * | 2-1 | Welsh and Wakisha School | 23-Apr-13 | Combined | 989 | 7 | 0.331 | 0.3 | Infiltration/Storage Trench, Rain Garden | Streets | $679,000.00 | Pennsylvania Horticulture Society | Delaware |
| | | 2-2 | | 23-Apr-13 | Combined | 827.8 | 7 | 0.207 | 0.3 | Tree Trench | Streets | | | Delaware |
| | 157 * | 157-1 | | 23-Apr-13 | Combined | 899.8 | 19 | 0.224 | 0.3 | Tree Trench | Streets | | Department of Recreation | Delaware |
| | | 157-2 | | 23-Apr-13 | Combined | 1234 | 19 | 0.27 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 157-3 | | 23-Apr-13 | Combined | 943 | 19 | 0.237 | 0.3 | Tree Trench | Streets | | | Delaware |
| | 245 * | 245-1 | | 23-Apr-13 | Combined | 973.6 | 7 | 0.211 | 0.3 | Tree Trench | Streets | | Pennsylvania Horticulture Society | Delaware |
| | 296 * | 296-1 | | 23-Apr-13 | Combined | 1034 | 4 | 0.189 | 0.3 | Tree Trench | Streets | | | Delaware |
| | 312 * | 312-1 | | 23-Apr-13 | Combined | 1182.6 | 7 | 0.27 | 0.4 | Tree Trench | Streets | | Department of Recreation | Delaware |
| | | 312-2 | | 23-Apr-13 | Combined | 1130 | 7 | 0.282 | 0.4 | Tree Trench | Streets | | | Delaware |
| 50022 | 13 | 13-1 | Madison Park | 16-Dec-11 | Combined | 402 | 13 | 0.161 | 0.2 | Infiltration/Storage Trench | Open Space | $99,000.00 | City Play,Digsau,Northern Liberties Neighborhood Association,Philadelphia Department of Parks & Recreation | Delaware |
| 50023 | 192 | 192-1 | Herron Playground porous basketball court | 02-Oct-12 | Combined | 539 | 12 | 0.148 | 0.3 | Infiltration/Storage Trench, Rain Garden | Open Space | $191,000.00 | Philadelphia Capital Program Office,Philadelphia Department of Parks & Recreation | Delaware |
| | | 192-2 | | 02-Oct-12 | Combined | 2150 | 12 | 0.184 | 0.4 | Pervious Paving | Open Space | | | Delaware |
| 50024 | 170 | 170-1 | Work in Shissler Playground Blair and Hewson Street | 10-Oct-10 | Combined | 1533 | 4 | 0.199 | 0.4 | Infiltration/Storage Trench | Open Space | $50,000.00 | New Kensington Community Development Corporation,Pennsylvania | Delaware |
| | | 170-2 | | 10-Oct-10 | Combined | 1499.6 | 4 | 0.205 | 0.4 | Tree Trench | Open Space | | | Delaware |
| 50025 | 223 * | 223-1 | A.S. Jenks School, Sacks Playground, Smith Elementary, St. Thomas Aquinas | 22-Oct-13 | Combined | 1684 | 18 | 0.263 | 0.5 | Tree Trench | Streets | $1,150,000.00 | Lower Moyamensing Civic Association | Delaware |
| | | 223-2 | | 22-Oct-13 | Combined | 1690 | 18 | 0.254 | 0.5 | Tree Trench | Streets | | | Delaware |
| | 224 * | 224-1 | | 22-Oct-13 | Combined | 2813.25 | 12 | 0.419 | 0.8 | Tree Trench | Streets | | | Delaware |
| | | 224-2 | | 22-Oct-13 | Combined | 1625.4 | 12 | 0.263 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 224-3 | | 22-Oct-13 | Combined | 2130.6 | 12 | 0.414 | 0.8 | Tree Trench | Streets | | | Delaware |
| | 227 * | 227-1 | | 22-Oct-13 | Combined | 1843.35 | 18 | 0.336 | 0.7 | Tree Trench | Streets | | | Schuylkill |
| | | 227-2 | | 22-Oct-13 | Combined | 1291.4 | 18 | 0.301 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | | 227-3 | | 22-Oct-13 | Combined | 1588.25 | 18 | 0.331 | 0.7 | Tree Trench | Streets | | | Schuylkill |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50026 | 210 * | 210-1 | Daroff School, Shepard Rec Center, Sayre School, Andrew Hamilton School | 13-Dec-12 | Combined | 2048 | 42 | 0.443 | 0.7 | Infiltration/Storage Trench | Streets | $1,659,000.00 | Pennsylvania Environmental Council | Cobbs-Darby |
| | | 210-2 | | 13-Dec-12 | Combined | 3420 | 42 | 0.541 | 1.1 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 210-3 | | 13-Dec-12 | Combined | 2828 | 42 | 0.502 | 0.9 | Tree Trench | Streets | | | Cobbs-Darby |
| | 211 * | 211-1 | | 13-Dec-12 | Combined | 2765 | 28 | 0.615 | 0.9 | Bumpout, Tree Trench | Streets | | | Schuylkill |
| | | 211-2 | | 13-Dec-12 | Combined | 3718 | 28 | 0.416 | 0.8 | Planter, Tree Trench | Streets | | | Schuylkill |
| | | 211-3 | | 13-Dec-12 | Combined | 2799 | 28 | 0.442 | 0.9 | Tree Trench | Streets | | | Schuylkill |
| | 216 * | 216-1 | | 13-Dec-12 | Combined | 4551 | 14 | 1.018 | 2.0 | Tree Trench | Streets | | | Cobbs-Darby |
| | 231 * | 231-1 | | 13-Dec-12 | Combined | 2511 | 39 | 0.461 | 0.8 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 231-2 | | 13-Dec-12 | Combined | 4884 | 39 | 0.75 | 1.5 | Bumpout, Planter, Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 231-3 | | 13-Dec-12 | Combined | 2915 | 39 | 0.612 | 1.0 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| 50027 | 212 * | 212-1 | Samuel Huey School, Bryant School, Christy Rec Center, | 23-Nov-12 | Combined | 2786 | 4 | 0.442 | 0.9 | Tree Trench | Streets | $952,000.00 | Pennsylvania Environmental Council | Cobbs-Darby |
| | | 212-3 | | 23-Nov-12 | Combined | 886 | 4 | 0.129 | 0.3 | Tree Trench | Streets | | | Cobbs-Darby |
| | 213 * | 213-1 | | 23-Nov-12 | Combined | 1102.61 | 19 | 0.158 | 0.3 | Tree Trench | Streets | | Department of Recreation,Pennsylvania Environmental Council | Cobbs-Darby |
| | | 213-2 | | 23-Nov-12 | Combined | 1771.1 | 19 | 0.3 | 0.6 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 213-3 | | 23-Nov-12 | Combined | 2582.43 | 19 | 0.529 | 1.1 | Tree Trench | Streets | | | Cobbs-Darby |
| | 214 * | 214-1 | | 23-Nov-12 | Combined | 752.57 | 11 | 0.103 | 0.2 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 214-2 | | 23-Nov-12 | Combined | 2051.75 | 11 | 0.341 | 0.7 | Tree Trench | Streets | | | Cobbs-Darby |
| | 215 * | 215-1 | | 23-Nov-12 | Combined | 2534.28 | 16 | 0.408 | 0.8 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 215-2 | | 23-Nov-12 | Combined | 3886.36 | 16 | 0.634 | 1.2 | Tree Trench | Streets | | Pennsylvania Environmental Council | Cobbs-Darby |
| | 59 * | 59-1 | | 23-Nov-12 | Combined | 3251.22 | 5 | 0.521 | 1.0 | Tree Trench | Streets | | | Cobbs-Darby |
| 50028 | 175 * | 175-1 | Phila. Military Academy/MLK Rec Center/FD Elementary /Towey Rec Center | 24-Dec-12 | Combined | 5051 | 20 | 0.737 | 1.5 | Tree Trench | Streets | $606,000.00 | | Delaware |
| | 176 * | 176-1 | | 24-Dec-12 | Combined | 2401 | 14 | 0.465 | 0.9 | Tree Trench | Streets | | | Delaware |
| | 177 * | 177-1 | | 24-Dec-12 | Combined | 3800 | 10 | 0.35 | 0.7 | Tree Trench | Streets | | | Delaware |
| | | 177-2 | | 24-Dec-12 | Combined | 3389.8 | 10 | 0.615 | 1.1 | Tree Trench | Streets | | | Delaware |
| | 178 * | 178-1 | | 24-Dec-12 | Combined | 2904 | 6 | 0.344 | 0.7 | Tree Trench | Streets | | Fairmount Park Commission,Pennsylvania Horticulture | Delaware |
| | | 178-2 | | 24-Dec-12 | Combined | 1348 | 6 | 0.134 | 0.3 | Tree Trench | Streets | | | Delaware |
| 50029 | 147 * | 147-1 | Morris Leeds School, Pleasant Playground, Simons Rec. Center | 10-May-13 | Combined | 709 | 32 | 0.265 | 0.3 | Infiltration/Storage Trench | Streets | $1,152,000.00 | Department of Recreation | TTF |
| | 179 * | 179-1 | | 10-May-13 | Combined | 1472.98 | 80 | 0.298 | 0.6 | Tree Trench | Streets | | | TTF |
| | | 179-10 | | 10-May-13 | Combined | 1337 | 80 | 0.23 | 0.5 | Tree Trench | Streets | | | TTF |
| | | 179-11 | | 10-May-13 | Combined | 2498.65 | 80 | 0.401 | 0.8 | Tree Trench | Streets | | | TTF |
| | | 179-12 | | 10-May-13 | Combined | 1443 | 80 | 0.464 | 0.5 | Tree Trench | Streets | | | TTF |
| | | 179-13 | | 10-May-13 | Combined | 2387.35 | 80 | 0.386 | 0.8 | Tree Trench | Streets | | | TTF |
| | | 179-14 | | 10-May-13 | Combined | 1974.17 | 80 | 0.297 | 0.6 | Tree Trench | Streets | | | TTF |
| | | 179-2 | | 10-May-13 | Combined | 1950 | 80 | 0.319 | 0.6 | Tree Trench | Streets | | | TTF |
| | | 179-3 | | 10-May-13 | Combined | 2585.74 | 80 | 0.451 | 0.8 | Tree Trench | Streets | | | TTF |
| | | 179-4 | | 10-May-13 | Combined | 2778 | 80 | 0.486 | 1.0 | Tree Trench | Streets | | | TTF |
| | | 179-5 | | 10-May-13 | Combined | 4188 | 80 | 0.616 | 1.2 | Tree Trench | Streets | | | TTF |
| | | 179-6 | | 10-May-13 | Combined | 3804.89 | 80 | 0.638 | 1.3 | Tree Trench | Streets | | | TTF |
| | | 179-7 | | 10-May-13 | Combined | 1517.88 | 80 | 0.223 | 0.4 | Tree Trench | Streets | | | TTF |
| | | 179-8 | | 10-May-13 | Combined | 1700 | 80 | 0.243 | 0.5 | Tree Trench | Streets | | | TTF |
| | | 179-9 | | 10-May-13 | Combined | 1532 | 80 | 0.223 | 0.4 | Tree Trench | Streets | | | TTF |
| 50030 | 171 | 171-1 | KendertonField, Cecil B.Moore, Congeso de Latinos, HM Stanton School | 27-Sep-18 | Combined | 2417 | 11 | 0.24 | 0.5 | Tree Trench | Streets | $1,363,000.00 | Fairmount Park Commission,Pennsylvania Horticulture Society | Delaware |
| | | 171-2 | | 27-Sep-18 | Combined | 1526 | 11 | 0.283 | 0.6 | Tree Trench | Streets | | | Delaware |
| | | 171-3 | | 27-Sep-18 | Combined | 3500 | 11 | 0.419 | 0.8 | Tree Trench | Streets | | | Delaware |
| | 172 | 172-1 | | 27-Sep-18 | Combined | 3921 | 14 | 0.522 | 1.0 | Bumpout, Tree Trench | Streets | | | Delaware |
| | | 172-2 | | 27-Sep-18 | Combined | 3573 | 14 | 0.329 | 0.7 | Bumpout, Tree Trench | Streets | | | Delaware |
| | | 172-3 | | 27-Sep-18 | Combined | 1721 | 14 | 0.399 | 0.5 | Bumpout, Tree Trench | Streets | | | Delaware |
| | | 172-4 | | 27-Sep-18 | Combined | 1534 | 14 | 0.216 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 172-5 | | 27-Sep-18 | Combined | 1943 | 14 | 0.382 | 0.6 | Infiltration/Storage Trench | Streets | | | Delaware |
| | 173 | 173-1 | | 27-Sep-18 | Combined | 1926 | 5 | 0.178 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 173-2 | | 27-Sep-18 | Combined | 1669 | 5 | 0.21 | 0.4 | Tree Trench | Streets | | | Delaware |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50031 | 123 | 123-1 | 58th St. Connector -Greenway Ave. | 15-Jan-13 | Combined | 1705 | 7 | 0.356 | 0.6 | Rain Garden | Streets | $368,000.00 | | Cobbs-Darby,Schuylkill |
| | | 123-2 | | 15-Jan-13 | Combined | 1672 | 7 | 0.379 | 0.5 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 123-3 | | 15-Jan-13 | Combined | 1534 | 7 | 0.321 | 0.6 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| 50032 | 180 | 180-1 | PHS Tree Trenches | 05-Nov-11 | Combined | 646 | 4 | 0.111 | 0.2 | Tree Trench | Streets | $0.00 | Pennsylvania Horticulture Society | Delaware |
| | 324 | 324-1 | | 05-Nov-11 | Combined | 768 | 3 | 0.159 | 0.3 | Tree Trench | Streets | | | Delaware |
| | 325 | 325-1 | | 05-Nov-11 | Combined | 1088 | 4 | 0.215 | 0.3 | Tree Trench | Streets | | | Delaware |
| | 326 | 326-1 | | 05-Nov-11 | Combined | 1047 | 6 | 0.413 | 0.3 | Tree Trench | Streets | | | Delaware |
| | 327 | 327-1 | | 05-Nov-11 | Combined | 1029 | 4 | 0.209 | 0.3 | Tree Trench | Streets | | | Delaware |
| | 342 | 342-1 | | 05-Nov-11 | Combined | 1292 | 4 | 0.288 | 0.6 | Tree Trench | Streets | | | Delaware |
| 50033 | 46 | 46-1 | Lancaster Ave 59th to 62nd Tree Trenches | 01-Nov-10 | Combined | 2075 | 17 | 0.559 | 0.6 | Tree Trench | Streets | Unknown | Environmental Protection Agency,Philadelphia Department of Commerce,Philadelphia Industrial Development Corporation | Schuylkill |
| | | 46-2 | | 01-Nov-10 | Combined | 782 | 17 | 0.14 | 0.2 | Bumpout | Streets | | | Schuylkill |
| | | 46-3 | | 01-Nov-10 | Combined | 1470 | 17 | 0.456 | 0.5 | Rain Garden, Swale | Streets | | | Schuylkill |
| | | 46-4 | | 01-Nov-10 | Combined | 3953 | 17 | 0.457 | 0.9 | Swale | Streets | | | Schuylkill |
| 50034 | 10 * | 10-1 | Trenton and Norris, Thompson and Columbia | 20-Sep-13 | Combined | 3428.28 | 3 | 0.702 | 1.4 | Bumpout, Tree Trench | Streets | $581,000.00 | New Kensington Community Development Corporation,Pennsylvania Horticulture Society | Delaware |
| | 88 * | 88-1 | | 20-Sep-13 | Combined | 2737.66 | 0 | 0.449 | 0.8 | Infiltration/Storage Trench, Rain Garden | Streets | | | Delaware |
| 50035 | 45 | 45-1 | Ben Franklin Parkway Tree Trenches | 01-Jun-11 | Combined | 1011 | 0 | 0.236 | 0.4 | Infiltration/Storage Trench | Streets | $216,000.00 | Fairmount Park Commission | Schuylkill |
| | | 45-2 | | 01-Jun-11 | Combined | 852 | 0 | 0.197 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 45-3 | | 01-Jun-11 | Combined | 1698 | 0 | 0.247 | 0.5 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| 50036 | 228 * | 228-1 | 29th / Cambria / William Cramp / Barton / Hunting Park | 25-Apr-14 | Combined | 1189.35 | 0 | 0.207 | 0.4 | Infiltration/Storage Trench | Streets | $623,000.00 | Philadelphia Department of Parks & Recreation | Delaware |
| | 277 * | 277-1 | | 25-Apr-14 | Combined | 3380 | 11 | 0.555 | 1.1 | Tree Trench | Streets | | | Delaware |
| | | 277-2 | | 25-Apr-14 | Combined | 1500.35 | 11 | 0.285 | 0.6 | Tree Trench | Streets | | | Delaware |
| | 278 * | 278-1 | | 25-Apr-14 | Combined | 4884.55 | 5 | 0.884 | 1.6 | Tree Trench | Streets | | | TTF |
| | 50 * | 50-1 | | 25-Apr-14 | Combined | 3353 | 0 | 0.636 | 1.0 | Bumpout, Infiltration/Storage Trench | Streets | | Philadelphia Department of Parks & Recreation | Delaware,Schuylkill |
| 50037 | 250 * | 250-1 | Cassidy/Overbrook/Shoemaker /Cathedral/Durham/sister Clara/James Rhoads/Belmont | 09-Sep-13 | Combined | 2261 | 29 | 0.424 | 0.8 | Tree Trench | Streets | $1,547,000.00 | | Schuylkill |
| | | 250-2 | | 09-Sep-13 | Combined | 2675 | 29 | 0.423 | 0.8 | Tree Trench | Streets | | | Schuylkill |
| | | 250-3 | | 09-Sep-13 | Combined | 1561 | 29 | 0.249 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | 251 * | 251-1 | | 09-Sep-13 | Combined | 3614 | 13 | 0.56 | 1.1 | Tree Trench | Streets | | | Schuylkill |
| | 252 * | 252-1 | | 09-Sep-13 | Combined | 1467 | 15 | 0.312 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | | 252-2 | | 09-Sep-13 | Combined | 1466 | 15 | 0.294 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | 253 * | 253-1 | | 09-Sep-13 | Combined | 2989 | 39 | 0.578 | 1.0 | Tree Trench | Streets | | | Schuylkill |
| | | 253-2 | | 09-Sep-13 | Combined | 1288 | 39 | 0.164 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 253-3 | | 09-Sep-13 | Combined | 2818 | 39 | 0.568 | 1.0 | Tree Trench | Streets | | | Schuylkill |
| | 254 * | 254-1 | | 09-Sep-13 | Combined | 1488 | 4 | 0.249 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | | 254-2 | | 09-Sep-13 | Combined | 1809 | 4 | 0.296 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | 255 * | 255-1 | | 09-Sep-13 | Combined | 3159 | 9 | 0.579 | 1.1 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 255-2 | | 09-Sep-13 | Combined | 2617 | 9 | 0.389 | 0.8 | Tree Trench | Streets | | | Cobbs-Darby |
| | 256 * | 256-1 | | 09-Sep-13 | Combined | 3189 | 3 | 0.609 | 1.1 | Tree Trench | Streets | | | Schuylkill |
| | 257 * | 257-1 | | 09-Sep-13 | Combined | 2921 | 12 | 0.581 | 0.9 | Tree Trench | Streets | | | Schuylkill |
| 50038 | 247 * | 247-1 | Donald/Wilson/Vare/StephenGirard/Southwark/Markward/Cherry/JulianAbele | 16-May-13 | Combined | 3565.9 | 7 | 0.516 | 1.0 | Tree Trench | Streets | $1,336,000.00 | Department of Public Property | Schuylkill |
| | 258 * | 258-1 | | 16-May-13 | Combined | 3728 | 23 | 0.678 | 1.2 | Tree Trench | Streets | | | Schuylkill |
| | 259 * | 259-1 | | 16-May-13 | Combined | 6155.04 | 18 | 0.848 | 1.7 | Tree Trench | Streets | | | Schuylkill |
| | | 259-2 | | 16-May-13 | Combined | 2777.6 | 18 | 0.427 | 0.9 | Tree Trench | Streets | | | Schuylkill |
| | 260 * | 260-1 | | 16-May-13 | Combined | 2991.26 | 20 | 0.462 | 0.9 | Tree Trench | Streets | | | Schuylkill |
| | | 260-2 | | 16-May-13 | Combined | 1480 | 20 | 0.278 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | 261 * | 261-1 | | 16-May-13 | Combined | 1604 | 6 | 0.214 | 0.4 | Tree Trench | Streets | | | Schuylkill |
| | 262 * | 262-1 | | 16-May-13 | Combined | 2029 | 3 | 0.382 | 0.7 | Tree Trench | Streets | | | Delaware |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50039 | 268 * | 268-1 | Temple / William Gray / Dick Elementary / Parking Lot 12th and Diamond | 01-Aug-14 | Combined | 1714.8 | 9 | 0.439 | 0.6 | Tree Trench | Streets | $889,000.00 | | Delaware |
| | | 268-2 | | 01-Aug-14 | Combined | 1495 | 9 | 0.242 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 268-3 | | 01-Aug-14 | Combined | 1015 | 9 | 0.214 | 0.3 | Tree Trench | Streets | | | Delaware |
| | 269 * | 269-1 | | 01-Aug-14 | Combined | 1600.55 | 21 | 0.277 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 269-2 | | 01-Aug-14 | Combined | 1776.15 | 21 | 0.285 | 0.6 | Tree Trench | Streets | | | Delaware |
| | | 269-3 | | 01-Aug-14 | Combined | 1303.3 | 21 | 0.176 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 269-4 | | 01-Aug-14 | Combined | 1402.2 | 21 | 0.188 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 269-5 | | 01-Aug-14 | Combined | 1605 | 21 | 0.184 | 0.4 | Tree Trench | Streets | | | Delaware |
| | 270 * | 270-1 | | 01-Aug-14 | Combined | 3933 | 11 | 0.327 | 0.7 | Tree Trench | Streets | | | Delaware |
| | | 270-2 | | 01-Aug-14 | Combined | 2708 | 11 | 0.285 | 0.6 | Tree Trench | Streets | | | Delaware |
| | 283 * | 283-1 | | 01-Aug-14 | Combined | 1985 | 1 | 0.337 | 0.6 | Tree Trench | Streets | | Philadelphia Housing Authority | Delaware |
| 50040 | 153 | 153-1 | Yorktown Green Streets | 20-Feb-19 | Combined | 1666 | 15 | 0.469 | 0.9 | Infiltration/Storage Trench, Planter | Streets | $1,418,000.00 | | Delaware |
| | | 153-2 | | 14-Mar-19 | Combined | 2677 | 15 | 0.495 | 1.0 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| | | 153-3 | | 11-Dec-18 | Combined | 1004 | 15 | 0.19 | 0.4 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| | | 153-4 | | 07-Nov-18 | Combined | 997 | 15 | 0.202 | 0.4 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| | | 153-5 | | 16-Oct-18 | Combined | 891 | 15 | 0.19 | 0.4 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| | | 153-6 | | 13-Sep-18 | Combined | 1327 | 15 | 0.25 | 0.5 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| 50041 | 167 * | 167-1 | Longstretch, Little Sisters of Poor, McCresh Plground, Cobbs Crk Pkwy. Island | 13-Jan-14 | Combined | 2798 | 33 | 0.421 | 0.8 | Tree Trench | Streets | $1,232,000.00 | Snyderville Community Development Corporation | Schuylkill |
| | | 167-2 | | 13-Jan-14 | Combined | 2733 | 33 | 0.501 | 1.0 | Tree Trench | Streets | | | Schuylkill |
| | | 167-3 | | 13-Jan-14 | Combined | 4354 | 33 | 0.813 | 1.6 | Tree Trench | Streets | | | Schuylkill |
| | 264 * | 264-1 | | 13-Jan-14 | Combined | 4488 | 13 | 0.805 | 1.6 | Planter, Tree Trench | Streets | | | Cobbs-Darby |
| | 265 * | 265-1 | | 13-Jan-14 | Combined | 1754 | 12 | 0.306 | 0.5 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 265-2 | | 13-Jan-14 | Combined | 1446 | 12 | 0.192 | 0.4 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 265-3 | | 13-Jan-14 | Combined | 2587 | 12 | 0.456 | 0.9 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 265-4 | | 13-Jan-14 | Combined | 1481 | 12 | 0.303 | 0.5 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 265-5 | | 13-Jan-14 | Combined | 1212 | 12 | 0.187 | 0.4 | Tree Trench | Streets | | | Cobbs-Darby |
| | 266 * | 266-1 | | 13-Jan-14 | Combined | 3312 | 6 | 0.772 | 1.5 | Infiltration/Storage Trench, Rain Garden | Streets | | | Cobbs-Darby |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50042 | 271 * | 271-1 | Bridesburg Sch., Dorsey Plygrnd, Roosevelt Plygrnd, Magnolia Cem.,Carmell | 30-Sep-13 | Combined | 1929.9 | 3 | 0.394 | 0.8 | Infiltration/Storage Trench, Rain Garden | Streets | $1,765,000.00 | Philadelphia Department of Parks & Recreation,Tacony Civic Association | Delaware |
| | | 271-2 | | 30-Sep-13 | Combined | 1108 | 3 | 0.23 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 271-3 | | 30-Sep-13 | Combined | 4671 | 3 | 0.561 | 1.1 | Tree Trench | Streets | | | Delaware |
| | 272 * | 272-1 | | 30-Sep-13 | Combined | 1127.65 | 16 | 0.159 | 0.3 | Tree Trench | Streets | | Tacony Civic Association | Delaware,TTF |
| | | 272-2 | | 30-Sep-13 | Combined | 1438 | 16 | 0.296 | 0.5 | Tree Trench | Streets | | | Delaware,TTF |
| | | 272-3 | | 30-Sep-13 | Combined | 1685 | 16 | 0.289 | 0.6 | Tree Trench | Streets | | | Delaware,TTF |
| | | 272-4 | | 30-Sep-13 | Combined | 1673 | 16 | 0.299 | 0.5 | Tree Trench | Streets | | | Delaware,TTF |
| | | 272-5 | | 30-Sep-13 | Combined | 1583.28 | 16 | 0.291 | 0.5 | Tree Trench | Streets | | | Delaware,TTF |
| | | 272-6 | | 30-Sep-13 | Combined | 2446 | 16 | 0.346 | 0.7 | Tree Trench | Streets | | | Delaware,TTF |
| | | 272-7 | | 30-Sep-13 | Combined | 2760.68 | 16 | 0.353 | 0.7 | Tree Trench | Streets | | | Delaware,TTF |
| | 273 * | 273-1 | | 30-Sep-13 | Combined | 2213 | 35 | 0.292 | 0.6 | Tree Trench | Streets | | | Delaware |
| | | 273-2 | | 30-Sep-13 | Combined | 1814 | 35 | 0.265 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 273-3 | | 30-Sep-13 | Combined | 1725 | 35 | 0.26 | 0.5 | Tree Trench | Streets | | | Delaware |
| | 274 * | 274-1 | | 30-Sep-13 | Combined | 3559 | 42 | 0.62 | 1.1 | Tree Trench | Streets | | Roosevelt Playground Park Advisory Council,Tacony Civic Association | Delaware |
| | | 274-2 | | 30-Sep-13 | Combined | 2091 | 42 | 0.271 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 274-3 | | 30-Sep-13 | Combined | 1122 | 42 | 0.118 | 0.2 | Tree Trench | Streets | | | Delaware |
| | | 274-4 | | 30-Sep-13 | Combined | 1667 | 42 | 0.265 | 0.5 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| | 275 * | 275-1 | | 30-Sep-13 | Combined | 1968.4 | 2 | 0.272 | 0.5 | Tree Trench | Streets | | Tacony Civic Association | Delaware |
| 50043 | 279 * | 279-1 | Harpers Hollow, Wakefield Park | 04-Dec-12 | Combined | 2996 | 0 | 0.563 | 1.1 | Basin | Open Space | $474,000.00 | Philadelphia Department of Parks & Recreation | TTF |
| | 281 * | 281-1 | | 04-Dec-12 | Combined | 1798 | 0 | 0.406 | 0.8 | Rain Garden | Open Space | | | TTF |
| | | 281-2 | | 04-Dec-12 | Combined | 2769 | 0 | 0.482 | 1.0 | Rain Garden | Open Space | | | TTF |
| 50044 | 280 | 280-1 | Wister Woods, Kemble Park | 21-Jan-15 | Combined | 21592 | 69 | 3.058 | 6.1 | Rain Garden, Swale | Open Space | $2,360,000.00 | Philadelphia Department of Parks & Recreation | TTF |
| | | 280-2 | | 21-Jan-15 | Combined | 5052 | 69 | 0.695 | 1.4 | Infiltration/Storage Trench | Open Space | | | TTF |
| | | 280-3 | | 21-Jan-15 | Combined | 7996 | 69 | 1.175 | 2.4 | Infiltration/Storage Trench | Open Space | | | TTF |
| | | 280-4 | | 21-Jan-15 | Combined | 2008 | 69 | 0.285 | 0.6 | Infiltration/Storage Trench | Open Space | | | TTF |
| | 282 | 282-1 | | 21-Jan-15 | Combined | 9158 | 7 | 0.899 | 1.8 | Rain Garden | Open Space | | | TTF |
| | | 282-2 | | 21-Jan-15 | Combined | 11228 | 7 | 1.285 | 2.6 | Rain Garden | Open Space | | | TTF |
| | | 282-3 | | 21-Jan-15 | Combined | 11275 | 7 | 1.276 | 2.6 | Rain Garden | Open Space | | | TTF |
| | | 282-4 | | 21-Jan-15 | Combined | 9504 | 7 | 1.307 | 2.6 | Rain Garden | Open Space | | | TTF |
| 50045 | 292 | 292-1 | Ben Franklin Parkway 16-19th St. | 16-Mar-17 | Combined | 3338 | 0 | 0.533 | 1.1 | Infiltration/Storage Trench | Streets | Unknown | Department of Public Property,Philadelphia Department of Parks & Recreation | Schuylkill |
| | | 292-2 | | 16-Mar-17 | Combined | 1920 | 0 | 0.259 | 0.5 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 292-3 | | 16-Mar-17 | Combined | 1680 | 0 | 0.227 | 0.5 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 292-4 | | 16-Mar-17 | Combined | 1322 | 0 | 0.173 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 292-5 | | 16-Mar-17 | Combined | 2424 | 0 | 0.289 | 0.6 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 292-6 | | 16-Mar-17 | Combined | 2414 | 0 | 0.46 | 0.8 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| 50046 | 243 * | 243-1 | Womrath Park | 27-Sep-12 | Combined | 3539 | 7 | 1.058 | 1.2 | Infiltration/Storage Trench, Rain Garden, Swale | Open Space | $540,000.00 | Tookany/Tacony-Frankford Watershed Partnership,Philadelphia Department of Parks & Recreation,Frankford Civic Association | TTF |
| 50047 | 366 | 366-1 | Philadelphia Zoo Green Streets Project | 29-May-13 | Combined | 874.88 | 5 | 0.17 | 0.3 | Rain Garden | Streets | $358,000.00 | Philadelphia Department of Parks & Recreation,Philadelphia Zoo | Schuylkill |
| | | 366-10 | | 29-May-13 | Combined | 816 | 5 | 0.115 | 0.2 | Infiltration/Storage Trench, Planter | Streets | | | Schuylkill |
| | | 366-2 | | 29-May-13 | Combined | 894 | 5 | 0.2 | 0.4 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill |
| | | 366-3 | | 29-May-13 | Combined | 385 | 5 | 0.065 | 0.1 | Rain Garden | Streets | | | Schuylkill |
| | | 366-4 | | 29-May-13 | Combined | 813.8 | 5 | 0.197 | 0.4 | Rain Garden | Streets | | | Schuylkill |
| | | 366-5 | | 29-May-13 | Combined | 582 | 5 | 0.112 | 0.2 | Rain Garden | Streets | | | Schuylkill |
| | | 366-6 | | 29-May-13 | Combined | 797.05 | 5 | 0.139 | 0.3 | Rain Garden | Streets | | | Schuylkill |
| | | 366-8 | | 29-May-13 | Combined | 649.96 | 5 | 0.096 | 0.2 | Infiltration/Storage Trench | Streets | | | Schuylkill |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 366-9 | | 29-May-13 | Combined | 697.47 | 5 | 0.109 | 0.2 | Infiltration/Storage Trench | Streets | | | Schuylkill |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50048 | 375 | 375-1 | Kinsey Sch./National Cem./Rowen Sch./Wagner Sch. | 26-Oct-17 | Combined | 3997 | 10 | 0.66 | 1.3 | Tree Trench | Streets | $1,108,000.00 | | TTF |
| | | 375-2 | | 26-Oct-17 | Combined | 2069.79 | 10 | 0.261 | 0.5 | Tree Trench | Streets | | | TTF |
| | 377 | 377-1 | | 26-Oct-17 | Combined | 591 | 0 | 0.127 | 0.2 | Infiltration/Storage Trench, Swale | Streets | | | TTF |
| | | 377-2 | | 26-Oct-17 | Combined | 720 | 0 | 0.202 | 0.4 | Infiltration/Storage Trench, Swale | Streets | | | TTF |
| | | 377-3 | | 26-Oct-17 | Combined | 587 | 0 | 0.16 | 0.3 | Infiltration/Storage Trench, Swale | Streets | | | TTF |
| | 378 | 378-1 | | 26-Oct-17 | Combined | 3260 | 9 | 0.621 | 1.2 | Tree Trench | Streets | | | TTF |
| | 379 | 379-1 | | 26-Oct-17 | Combined | 3457 | 11 | 0.584 | 1.2 | Tree Trench | Streets | | | TTF |
| | | 379-2 | | 26-Oct-17 | Combined | 1913 | 11 | 0.42 | 0.6 | Tree Trench | Streets | | | TTF |
| 50049 | 291 | 291-1 | Sharswood & Our Lady of Carmel Schs./ St. Monica/ Taggart Sch. | 27-Sep-17 | Combined | 3023.35 | 3 | 0.415 | 0.8 | Tree Trench | Streets | $1,235,000.00 | Community Design Collaborative | Delaware |
| | | 291-2 | | 27-Sep-17 | Combined | 874.52 | 3 | 0.222 | 0.3 | Tree Trench | Streets | | | Delaware |
| | | 291-3 | | 27-Sep-17 | Combined | 2062.85 | 3 | 0.317 | 0.6 | Infiltration/Storage Trench | Streets | | | Delaware |
| | 388 | 388-1 | | 27-Sep-17 | Combined | 2006.45 | 5 | 0.3 | 0.6 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 388-2 | | 27-Sep-17 | Combined | 1493.82 | 5 | 0.422 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 388-3 | | 27-Sep-17 | Combined | 984.89 | 5 | 0.176 | 0.3 | Tree Trench | Streets | | | Delaware |
| | | 388-4 | | 27-Sep-17 | Combined | 1478.59 | 5 | 0.27 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware |
| | 389 | 389-1 | | 27-Sep-17 | Combined | 2176.5 | 3 | 0.507 | 0.7 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 389-2 | | 27-Sep-17 | Combined | 1306.13 | 3 | 0.245 | 0.5 | Tree Trench | Streets | | | Delaware |
| 50051 | 392 | 392-1 | 73rd/Elmwood Pk./Patterson Sch./Connell Pk./Mother Mary Sch./St. James Ch. | 03-Feb-15 | Combined | 4871 | 8 | 0.823 | 1.6 | Tree Trench | Streets | $2,526,000.00 | | Cobbs-Darby,Schuylkill |
| | | 392-2 | | 03-Feb-15 | Combined | 4663 | 8 | 0.871 | 1.5 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | 393 | 393-1 | | 03-Feb-15 | Combined | 4901 | 9 | 0.898 | 1.8 | Infiltration/Storage Trench, Rain Garden | Streets | | Philadelphia Department of Parks & Recreation | Schuylkill |
| | | 393-2 | | 03-Feb-15 | Combined | 2267 | 9 | 0.369 | 0.7 | Tree Trench | Streets | | | Schuylkill |
| | | 393-3 | | 03-Feb-15 | Combined | 3855 | 9 | 0.799 | 1.2 | Rain Garden, Tree Trench | Streets | | | Schuylkill |
| | | 393-4 | | 03-Feb-15 | Combined | 1081 | 9 | 0.146 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 393-5 | | 03-Feb-15 | Combined | 4995 | 9 | 0.864 | 1.6 | Tree Trench | Streets | | | Schuylkill |
| | 394 | 394-1 | | 03-Feb-15 | Combined | 1425 | 6 | 0.231 | 0.4 | Tree Trench | Streets | | | Schuylkill |
| | | 394-2 | | 03-Feb-15 | Combined | 3184 | 6 | 0.57 | 1.0 | Tree Trench | Streets | | | Schuylkill |
| | | 394-3 | | 03-Feb-15 | Combined | 881 | 6 | 0.137 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | 396 | 396-1 | | 03-Feb-15 | Combined | 4331 | 17 | 0.726 | 1.4 | Tree Trench | Streets | | | Schuylkill |
| | | 396-2 | | 03-Feb-15 | Combined | 1413 | 17 | 0.363 | 0.7 | Tree Trench | Streets | | | Schuylkill |
| | | 396-3 | | 03-Feb-15 | Combined | 3229 | 17 | 0.538 | 1.0 | Tree Trench | Streets | | | Schuylkill |
| | 397 | 397-1 | | 03-Feb-15 | Combined | 3846 | 8 | 0.742 | 1.2 | Tree Trench | Streets | | | Schuylkill |
| | | 397-2 | | 03-Feb-15 | Combined | 1831.5 | 8 | 0.392 | 0.7 | Tree Trench | Streets | | | Schuylkill |
| | 398 | 398-1 | | 03-Feb-15 | Combined | 12536 | 18 | 2.181 | 3.9 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 398-2 | | 03-Feb-15 | Combined | 3931 | 18 | 0.407 | 0.8 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50052 | 335 | 335-1 | Chelten Hills Cem./Finley Pg./Ivy Hills Cem./Pennypacker Sch./ Sedgwick Sta. | 12-Mar-18 | Combined | 6081 | 2 | 1.025 | 1.8 | Bumpout, Infiltration/Storage Trench | Streets | $2,256,000.00 | Southeastern Transportation Authority | TTF |
| | 380 | 380-1 | | 12-Mar-18 | Combined | 5493 | 0 | 1.133 | 1.7 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 380-10 | | 12-Mar-18 | Combined | 1560 | 0 | 0.287 | 0.5 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 380-11 | | 12-Mar-18 | Combined | 1534 | 0 | 0.176 | 0.4 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 380-12 | | 12-Mar-18 | Combined | 2048 | 0 | 0.347 | 0.6 | Infiltration/Storage Trench, Swale | Streets | | | TTF |
| | | 380-2 | | 12-Mar-18 | Combined | 2615 | 0 | 0.368 | 0.7 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 380-3 | | 12-Mar-18 | Combined | 2709 | 0 | 0.406 | 0.8 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 380-4 | | 12-Mar-18 | Combined | 2922 | 0 | 0.371 | 0.7 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 380-5 | | 12-Mar-18 | Combined | 1544 | 0 | 0.217 | 0.4 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 380-6 | | 12-Mar-18 | Combined | 3284 | 0 | 0.393 | 0.8 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 380-9 | | 12-Mar-18 | Combined | 3185 | 0 | 0.535 | 1.0 | Infiltration/Storage Trench, Swale | Streets | | | TTF |
| | 383 | 383-1 | | 12-Mar-18 | Combined | 3622 | 0 | 0.615 | 1.2 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 383-2 | | 12-Mar-18 | Combined | 2952 | 0 | 0.593 | 0.9 | Infiltration/Storage Trench | Streets | | | TTF |
| 50053 | 314 | 314-1 | Logan Sch./Wayne/Windrim/Richmond Lib./Stokley/Vacant Lot/Skev. Pk./Westmoreland | 28-Mar-18 | Combined | 1465 | 16 | 0.29 | 0.5 | Tree Trench | Streets | $1,843,000.00 | | TTF |
| | | 314-2 | | 28-Mar-18 | Combined | 1746.1 | 16 | 0.398 | 0.6 | Tree Trench | Streets | | | TTF |
| | | 314-3 | | 28-Mar-18 | Combined | 2932.4 | 16 | 0.796 | 1.0 | Tree Trench | Streets | | | TTF |
| | 384 | 384-1 | | 28-Mar-18 | Combined | 4170 | 9 | 0.657 | 1.3 | Tree Trench | Streets | | | Delaware |
| | 385 | 385-1 | | 28-Mar-18 | Combined | 2054.1 | 7 | 0.363 | 0.7 | Tree Trench | Streets | | | Delaware |
| | | 385-2 | | 28-Mar-18 | Combined | 905 | 7 | 0.138 | 0.3 | Tree Trench | Streets | | | Delaware |
| | 413 | 413-1 | | 28-Mar-18 | Combined | 1365 | 0 | 0.238 | 0.4 | Bumpout, Infiltration/Storage Trench | Streets | | Department of Public Property | TTF |
| | | 413-2 | | 28-Mar-18 | Combined | 1093 | 0 | 0.17 | 0.3 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| 50055 | 246 | 246-1 | 40th St./Drexel COMAD/Malcom X Pk./42nd St.Vacant Lot/Beeber Sch./Upland Way | 20-Mar-19 | Combined | 2458 | 13 | 0.365 | 0.7 | Tree Trench | Streets | $1,941,000.00 | Drexel University | Schuylkill |
| | | 246-2 | | 20-Mar-19 | Combined | 2794 | 13 | 0.414 | 0.8 | Tree Trench | Streets | | | Schuylkill |
| | 344 | 344-1 | | 20-Mar-19 | Combined | 2506 | 3 | 0.312 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | 399 | 399-1 | | 20-Mar-19 | Combined | 2525 | 29 | 0.314 | 0.6 | Tree Trench | Streets | | Philadelphia Planning Commission,Philadelphia Department of Parks & Recreation | Cobbs-Darby,Schuylkill |
| | | 399-2 | | 20-Mar-19 | Combined | 3759 | 29 | 0.664 | 1.2 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 399-3 | | 20-Mar-19 | Combined | 1605 | 29 | 0.325 | 0.5 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 399-4 | | 20-Mar-19 | Combined | 3382 | 29 | 0.517 | 1.0 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | 400 | 400-1 | | 20-Mar-19 | Combined | 3279 | 0 | 0.502 | 1.0 | Bumpout, Infiltration/Storage Trench, Swale | Streets | | American Cities Foundation | Schuylkill |
| | | 400-2 | | 20-Mar-19 | Combined | 1756 | 0 | 0.179 | 0.4 | Bumpout, Infiltration/Storage Trench, Swale | Streets | | | Schuylkill |
| | | 400-3 | | 20-Mar-19 | Combined | 1704 | 0 | 0.189 | 0.4 | Bumpout, Infiltration/Storage Trench, Swale | Streets | | | Schuylkill |
| | | 400-4 | | 20-Mar-19 | Combined | 5082 | 0 | 0.806 | 1.6 | Infiltration/Storage Trench, Swale | Streets | | | Schuylkill |
| 50057 | 417 | 417-1 | Stenton Ave. & E. Washington Ln. | 08-Jul-14 | Combined | 2326 | 0 | 0.283 | 0.6 | Rain Garden | Streets | $34,000.00 | Philadelphia Streets Department,Ogontz Avenue Revitalization Corporation,Mayors Office of Transportation & Utilities | TTF |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50059 | 410 | 410-1 | Harrowgate Park | 01-Sep-16 | Combined | 1842 | 0 | 0.266 | 0.5 | Infiltration/Storage Trench, Rain Garden | Open Space | $808,000.00 | Southeastern Transportation Authority,Philadelphia Department of Parks & Recreation | Delaware |
| | | 410-2 | | 01-Sep-16 | Combined | 2885 | 0 | 0.38 | 0.8 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Delaware |
| | | 410-3 | | 01-Sep-16 | Combined | 4048.95 | 0 | 0.383 | 0.8 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Delaware |
| | | 410-4 | | 01-Sep-16 | Combined | 5789 | 0 | 0.769 | 1.5 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Delaware |
| 50060 | 416 | 416-1 | Hunting Park | 31-Jan-20 | Combined | 1642 | 29 | 0.224 | 0.4 | Infiltration/Storage Trench, Rain Garden | Open Space | $1,824,000.00 | Philadelphia Department of Parks & Recreation | Delaware,TTF |
| | | 416-10 | | 31-Jan-20 | Combined | 10061 | 29 | 1.421 | 2.8 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Delaware,TTF |
| | | 416-2 | | 15-Nov-19 | Combined | 6476 | 29 | 0.884 | 1.8 | Infiltration/Storage Trench | Open Space | | | Delaware,TTF |
| | | 416-3 | | 31-Jan-20 | Combined | 1828 | 29 | 0.251 | 0.5 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Delaware,TTF |
| | | 416-4 | | 07-Oct-19 | Combined | 2894 | 29 | 0.4 | 0.8 | Infiltration/Storage Trench | Open Space | | | Delaware,TTF |
| | | 416-5 | | 02-Nov-19 | Combined | 2955 | 29 | 0.408 | 0.8 | Infiltration/Storage Trench | Open Space | | | Delaware,TTF |
| | | 416-6 | | 19-Sep-19 | Combined | 972 | 29 | 0.184 | 0.4 | Rain Garden | Open Space | | | Delaware,TTF |
| | | 416-7 | | 24-Nov-20 | Combined | 1963 | 29 | 0.27 | 0.5 | Infiltration/Storage Trench | Open Space | | | Delaware,TTF |
| | | 416-9 | | 31-Jan-20 | Combined | 15146 | 29 | 2.092 | 4.2 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Delaware,TTF |
| 50061 | 471 | 471-1 | Bustleton Avenue South, TIGER 3 Project (w/PWD Green Streets Funding) | 08-Feb-16 | Combined | 2650 | 0 | 0.465 | 0.9 | Infiltration/Storage Trench | Streets | $188,000.00 | Philadelphia Streets Department | Delaware |
| 50062 | 470 | 470-1 | TIGER III: Woodland Ave. Corrdor (For PWD Green Streets Program) | 14-Dec-15 | Combined | 1820 | 15 | 0.373 | 0.7 | Tree Trench | Streets | $438,000.00 | Philadelphia Streets Department | Cobbs-Darby,Schuylkill |
| | | 470-2 | | 14-Dec-15 | Combined | 770 | 15 | 0.218 | 0.3 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 470-3 | | 14-Dec-15 | Combined | 3118 | 15 | 0.628 | 1.0 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 470-4 | | 14-Dec-15 | Combined | 1024 | 15 | 0.194 | 0.3 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| 50063 | 310 | 310-1 | Eadom St. Parking Lot - 5312-50 Eadom | 02-May-12 | Combined | 3973 | 20 | 0.81 | 1.2 | Rain Garden | Parking | $0.00 | Department of Public Property | Delaware |
| | | 310-2 | | 02-May-12 | Combined | 1949 | 20 | 0.343 | 0.6 | Rain Garden | Parking | | | Delaware |
| | | 310-3 | | 02-May-12 | Combined | 675 | 20 | 0.099 | 0.2 | Rain Garden | Parking | | | Delaware |
| | | 310-4 | | 02-May-12 | Combined | 223 | 20 | 0.012 | 0.0 | Rain Garden | Parking | | | Delaware |
| | | 310-5 | | 02-May-12 | Combined | 2689 | 20 | 0.568 | 0.8 | Rain Garden | Parking | | | Delaware |
| | | 310-6 | | 02-May-12 | Combined | 1289 | 20 | 0.139 | 0.3 | Rain Garden | Parking | | | Delaware |
| 50065 | 367 | 367-1 | Panati Playground | 14-May-15 | Combined | 3770 | 8 | 0.852 | 1.3 | Infiltration/Storage Trench, Rain Garden | Open Space | $227,000.00 | Department of Public Property,Philadelphia Department of Parks & Recreation | Delaware |
| 50067 | 276 | 276-1 | 29th and Cambria PWD Facility Parking Lot | 31-Oct-16 | Combined | 3963.23 | 58 | 0.755 | 1.3 | Swale, Tree Trench | Streets | $1,023,000.00 | | Delaware |
| | | 276-2 | | 31-Oct-16 | Combined | 4301.74 | 58 | 0.876 | 1.4 | Swale, Tree Trench | Streets | | | Delaware |
| 50068 | 244 | 244-1 | Ingersoll Commons | 08-Nov-16 | Combined | 6056 | 17 | 0.686 | 1.4 | Infiltration/Storage Trench, Rain Garden, Swale | Open Space | $795,000.00 | Community Ventures,Department of Public Property,Philadelphia Department of Parks & Recreation | Delaware |
| 50069 | 511 | 511-1 | Callowhill St. from 2nd St. to 7th St. | 05-Feb-16 | Combined | 27.2 | 10 | 0.007 | 0.0 | Stormwater Tree | Streets | $0.00 | Philadelphia Streets Department | Delaware |
| | | 511-10 | | 05-Feb-16 | Combined | 27.2 | 10 | 0.007 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 511-2 | | 05-Feb-16 | Combined | 27.2 | 10 | 0.007 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 511-3 | | 05-Feb-16 | Combined | 27.2 | 10 | 0.007 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 511-4 | | 05-Feb-16 | Combined | 27.2 | 10 | 0.007 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 511-5 | | 05-Feb-16 | Combined | 27.2 | 10 | 0.007 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 511-6 | | 05-Feb-16 | Combined | 27.2 | 10 | 0.007 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 511-7 | | 05-Feb-16 | Combined | 27.2 | 10 | 0.007 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 511-8 | | 05-Feb-16 | Combined | 27.2 | 10 | 0.007 | 0.0 | Stormwater Tree | Streets | | | Delaware |
| | | 511-9 | | 05-Feb-16 | Combined | 27.2 | 10 | 0.007 | 0.0 | Stormwater Tree | Streets | | | Delaware |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50070 | 524 | 524-1 | Benson Park | 13-Nov-15 | Combined | | 0 | 0.186 | 0.2 | Pervious Paving | Open Space | Unknown | Department of Public Property,Philadelphia Department of | Delaware |
| | | 524-2 | | 13-Nov-15 | Combined | 700 | 0 | 0.186 | 0.3 | Infiltration/Storage Trench | Open Space | | | Delaware |
| 50071 | 475 | 475-1 | Green2015 - Phase I - Collazo (2.37 GA) | 23-Jun-17 | Combined | 5697.21 | 16 | 1.172 | 1.9 | Infiltration/Storage Trench, Rain Garden | Open Space | $353,000.00 | Philadelphia School District,Philadelphia Department of Parks & Recreation,Trust for Public Land | Delaware |
| 50075 | 479 | 479-1 | Green2015 - Phase I - William Dick Elementary | 13-Jun-14 | Combined | 8738.01 | 0 | 1.496 | 2.8 | Rain Garden | Schools | $207,000.00 | Philadelphia School District,Philadelphia Department of Parks & Recreation,Trust for Public Land | Delaware |
| 50077 | 322 | 322-1 | Baker, Heston, Haverford Triangle | 16-Sep-16 | Combined | 944 | 10 | 0.171 | 0.3 | Infiltration/Storage Trench | Vacant Land | $739,000.00 | | Schuylkill |
| | | 322-2 | | 16-Sep-16 | Combined | 3056 | 10 | 0.629 | 0.9 | Rain Garden | Vacant Land | | | Schuylkill |
| | | 322-3 | | 16-Sep-16 | Combined | 1574.15 | 10 | 0.35 | 0.7 | Infiltration/Storage Trench | Vacant Land | | | Schuylkill |
| | 530 | 530-1 | | 16-Sep-16 | Combined | 1419 | 0 | 0.275 | 0.5 | Infiltration/Storage Trench, Rain Garden | Streets | | Philadelphia Department of Parks & Recreation | Schuylkill |
| | 558 | 558-1 | | 16-Sep-16 | Combined | 3638 | 4 | 0.66 | 1.3 | Infiltration/Storage Trench, Rain Garden | Vacant Land | | Department of Public Property,Philadelphia Department of Parks & Recreation | Schuylkill |
| 50078 | 303 | 303-1 | Clearview Community Park & Morris Estate Park | 07-Oct-16 | Combined | 3531 | 0 | 0.73 | 1.5 | Infiltration/Storage Trench, Rain Garden | Vacant Land | $866,000.00 | Tookany/Tacony-Frankford Watershed Partnership | TTF |
| | 642 | 642-2 | | 07-Oct-16 | Combined | 1037 | 13 | 0.289 | 0.6 | Tree Trench | Open Space | | Philadelphia Department of Parks & Recreation | TTF |
| | | 642-3 | | 07-Oct-16 | Combined | 4670 | 13 | 0.765 | 1.5 | Infiltration/Storage Trench, Rain Garden | Open Space | | | TTF |
| | | 642-6 | | 07-Oct-16 | Combined | 1978 | 13 | 0.353 | 0.7 | Tree Trench | Open Space | | | TTF |
| 50079 | 401 | 401-1 | Guerin Recreation Center | 23-Jul-18 | Combined | 5641 | 1 | 0.747 | 1.5 | Infiltration/Storage Trench | Open Space | $1,148,000.00 | Philadelphia Department of Parks & Recreation | Schuylkill |
| | | 401-2 | | 23-Jul-18 | Combined | 9563 | 1 | 1.322 | 2.6 | Infiltration/Storage Trench | Open Space | | | Schuylkill |
| | | 401-3 | | 23-Jul-18 | Combined | | 1 | 2.069 | 0.1 | Depaving | Open Space | | | Schuylkill |
| 50080 | 588 | 588-2 | Penn Street Trail | 13-Jun-13 | Combined | 1260 | 25 | 0.567 | 0.3 | Rain Garden | Streets | $0.00 | DRWC | Delaware |
| | | 588-3 | | 13-Jun-13 | Combined | 447 | 25 | 0.206 | 0.1 | Rain Garden | Streets | | | Delaware |
| 50082 | 597 | 597-1 | 33rd and Dauphin St. Sept Bus Loop Green Streets Project | 31-Jul-13 | Combined | 481.17 | 0 | 0.086 | 0.1 | Infiltration/Storage Trench | Streets | $0.00 | Southeastern Transportation Authority | Schuylkill |
| 50083 | 151 | 151-1 | Weccacoe Playground | 09-Dec-16 | Combined | 1181 | 9 | 0.309 | 0.4 | Infiltration/Storage Trench, Rain Garden | Open Space | $119,000.00 | Philadelphia Department of Parks & Recreation | Delaware |
| | | 151-2 | | 09-Dec-16 | Combined | | 9 | 0.309 | 0.0 | Depaving | Open Space | | | Delaware |
| | | 151-3 | | 09-Dec-16 | Combined | | 9 | 0.309 | 0.0 | Depaving | Open Space | | | Delaware |
| | | 151-4 | | 09-Dec-16 | Combined | | 9 | 0.309 | 0.1 | Depaving | Open Space | | | Delaware |
| | | 151-5 | | 09-Dec-16 | Combined | | 9 | 0.309 | 0.0 | Depaving | Open Space | | | Delaware |
| | | 151-6 | | 09-Dec-16 | Combined | | 9 | 0.309 | 0.0 | Depaving | Open Space | | | Delaware |
| 50084 | 487 | 487-1 | Moss Playground/Carmella Playground | 13-Jan-20 | Combined | 6088 | 15 | 1.009 | 2.0 | Tree Trench | Open Space | $1,742,000.00 | Philadelphia Department of Parks & Recreation | Delaware |
| | | 487-2 | | 13-Jan-20 | Combined | 11478 | 15 | 1.749 | 3.5 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Delaware |
| | 580 | 580-1 | | 13-Jan-20 | Combined | 4241 | 0 | 0.689 | 1.4 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Delaware,TTF |
| | | 580-2 | | 13-Jan-20 | Combined | 5611 | 0 | 0.786 | 1.6 | Rain Garden | Open Space | | | Delaware,TTF |
| | | 580-3 | | 13-Jan-20 | Combined | 1775 | 0 | 0.249 | 0.5 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Delaware,TTF |
| | | 580-4 | | 13-Jan-20 | Combined | 4630 | 0 | 0.803 | 1.6 | Rain Garden | Open Space | | | Delaware,TTF |
| | | 580-5 | | 13-Jan-20 | Combined | 1943 | 0 | 0.272 | 0.5 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Delaware,TTF |
| | | 580-6 | | 13-Jan-20 | Combined | 875 | 0 | 0.139 | 0.3 | Infiltration/Storage Trench | Open Space | | | Delaware,TTF |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50085 | 574 | 574-1 | Ralph Brooks Park | 08-Oct-15 | Combined | 1609 | 5 | 0.333 | 0.5 | Infiltration/Storage Trench, Rain Garden | Open Space | $152,000.00 | Philadelphia Department of Parks & Recreation,Councilman Johnson,Urban Roots | Schuylkill |
| 50088 | 546 | 546-1 | Rowland and Crispin | 11-Sep-20 | Combined | 2009 | 16 | 0.338 | 0.6 | Bumpout, Infiltration/Storage Trench | Streets | $4,502,000.00 | | Delaware |
| | | 546-2 | | 06-Jul-21 | Combined | 1009 | 16 | 0.243 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 546-3 | | 18-Aug-21 | Combined | 2120 | 16 | 0.31 | 0.6 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| | | 546-4 | | 06-Jul-21 | Combined | 3112 | 16 | 0.566 | 1.0 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| | | 546-5 | | 11-Sep-20 | Combined | 2380 | 16 | 0.419 | 0.8 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware |
| | | 546-6 | | 18-Nov-20 | Combined | 1475 | 16 | 0.245 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 546-7 | | 11-Sep-20 | Combined | 4188 | 16 | 0.799 | 1.3 | Infiltration/Storage Trench, Swale | Streets | | | Delaware |
| | | 546-8 | | 18-Nov-20 | Combined | 3616 | 16 | 0.584 | 1.2 | Infiltration/Storage Trench, Swale | Streets | | | Delaware |
| | 595 | 595-1 | | 15-Dec-21 | Combined | 2447 | 16 | 0.452 | 0.8 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 595-10 | | 03-May-21 | Combined | 876 | 16 | 0.132 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 595-11 | | 09-Sep-20 | Combined | 3785 | 16 | 0.703 | 1.2 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 595-12 | | 09-Sep-20 | Combined | 3027 | 16 | 0.531 | 1.0 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 595-2 | | 12-Apr-22 | Combined | 5507 | 16 | 1.093 | 1.8 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 595-3 | | 26-Aug-22 | Combined | 5113 | 16 | 1.084 | 1.6 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 595-4 | | 19-Aug-21 | Combined | 4327 | 16 | 0.76 | 1.4 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 595-5 | | 26-Aug-22 | Combined | 5137 | 16 | 1.048 | 1.7 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 595-6 | | 03-May-21 | Combined | 1040 | 16 | 0.169 | 0.3 | Tree Trench | Streets | | | Delaware,Pennypack |
| | | 595-7 | | 13-Apr-22 | Combined | 2842 | 16 | 0.607 | 0.9 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 595-8 | | 26-Aug-22 | Combined | 4120 | 16 | 0.771 | 1.4 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 595-9 | | 09-Sep-20 | Combined | 6412 | 16 | 1.059 | 2.1 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | 596 | 596-1 | | 27-May-20 | Combined | 3903 | 6 | 0.631 | 1.3 | Bumpout, Infiltration/Storage Trench | Streets | | | Pennypack |
| | | 596-2 | | 27-May-20 | Combined | 4244 | 6 | 0.686 | 1.4 | Bumpout, Infiltration/Storage Trench | Streets | | | Pennypack |
| | | 596-3 | | 26-May-20 | Combined | 1899 | 6 | 0.297 | 0.6 | Bumpout, Infiltration/Storage Trench | Streets | | | Pennypack |
| | | 596-4 | | 26-May-20 | Combined | 1361 | 6 | 0.198 | 0.4 | Bumpout, Infiltration/Storage Trench | Streets | | | Pennypack |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50089 | 455 | 455-1 | Erie, Francis Hopkins, and Mariana Bracetti | 29-Oct-19 | Combined | 1911 | 0 | 0.269 | 0.5 | Bumpout, Infiltration/Storage Trench | Streets | $1,819,000.00 | | TTF |
| | | 455-2 | | 29-Oct-19 | Combined | 6567 | 0 | 0.903 | 1.8 | Infiltration/Storage Trench, Planter | Streets | | | TTF |
| | 459 | 459-1 | | 29-Oct-19 | Combined | 8729 | 3 | 1.769 | 2.9 | Planter, Tree Trench | Streets | | | TTF |
| | | 459-2 | | 23-Oct-19 | Combined | 899 | 3 | 0.387 | 0.3 | Infiltration/Storage Trench, Planter | Streets | | | TTF |
| 50090 | 539 | 539-1 | Protestant Home and Devereaux | 21-May-24 | Combined | 2161 | 9 | 0.54 | 0.7 | Tree Trench | Streets | $1,977,000.00 | | Delaware |
| | | 539-2 | | 21-May-24 | Combined | 1568 | 9 | 0.37 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 539-3 | | 21-May-24 | Combined | 1006 | 9 | 0.231 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 539-4 | | 21-May-24 | Combined | 2852 | 9 | 0.55 | 1.0 | Infiltration/Storage Trench | Streets | | | Delaware |
| | 540 | 540-1 | | 06-Dec-23 | Combined | 4215 | 19 | 1.055 | 1.4 | Tree Trench | Streets | | | Delaware |
| | | 540-2 | | 06-Dec-23 | Combined | 2209 | 19 | 0.417 | 0.7 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 540-3 | | 06-Dec-23 | Combined | 2387 | 19 | 0.436 | 0.9 | Tree Trench | Streets | | | Delaware |
| | | 540-4 | | 06-Dec-23 | Combined | 4127 | 19 | 0.937 | 1.6 | Tree Trench | Streets | | | Delaware |
| 50091 | 589 | 589-1 | Stinger Square | 06-Jul-16 | Combined | 1475 | 15 | 0.226 | 0.5 | Infiltration/Storage Trench | Open Space | $232,000.00 | Philadelphia Department of Parks & Recreation | Schuylkill |
| | | 589-2 | | 06-Jul-16 | Combined | 1558 | 15 | 0.396 | 0.5 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Schuylkill |
| 50097 | 483 | 483-1 | Black Coyle McBride Playground | 10-Jul-19 | Combined | 2711 | 0 | 0.475 | 1.0 | Infiltration/Storage Trench | Open Space | $1,200,000.00 | Philadelphia Department of Parks & Recreation | Delaware |
| | 634 | 634-1 | | 30-Mar-18 | Combined | 1683 | 3 | 0.274 | 0.5 | Tree Trench | Streets | | | Delaware |
| | 637 | 637-1 | | 05-Nov-18 | Combined | 1371 | 3 | 0.168 | 0.3 | Tree Trench | Streets | | | Delaware |
| | 638 | 638-2 | | 09-Jan-18 | Combined | 786 | 6 | 0.124 | 0.2 | Tree Trench | Streets | | | Delaware |
| | | 638-3 | | 02-Feb-18 | Combined | 958 | 6 | 0.115 | 0.2 | Tree Trench | Streets | | | Delaware |
| | 993 | 993-1 | | 06-Aug-18 | Combined | 1471 | 2 | 0.221 | 0.4 | Tree Trench | Streets | | | Delaware |
| 50098 | 1007 | 1007-1 | Neighborhood Parks - Wissinoming Park | 15-Feb-18 | Combined | 2225 | 0 | 0.558 | 0.7 | Infiltration/Storage Trench, Rain Garden | Open Space | $500,000.00 | Philadelphia Department of Parks & Recreation | Delaware |
| | | 1007-2 | | 15-Feb-18 | Combined | 4815 | 0 | 1.023 | 1.5 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Delaware |
| 50101 | 1049 | 1049-1 | Kingsessing Recreation Center and Street Locations | 06-Mar-19 | Combined | 793 | 10 | 0.146 | 0.3 | Tree Trench | Streets | $1,789,000.00 | | Cobbs-Darby,Schuylkill |
| | | 1049-2 | | 19-Mar-19 | Combined | 1349 | 10 | 0.182 | 0.4 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1049-3 | | 08-Jan-19 | Combined | 1405 | 10 | 0.195 | 0.4 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1049-4 | | 18-Dec-18 | Combined | 1312 | 10 | 0.181 | 0.4 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1049-5 | | 26-Mar-19 | Combined | 1194 | 10 | 0.178 | 0.4 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | 608 | 608-1 | | 15-Jan-19 | Combined | 9421 | 17 | 1.591 | 3.0 | Infiltration/Storage Trench, Rain Garden | Open Space | | Philadelphia Department of Parks & Recreation | Schuylkill |
| | | 608-2 | | 04-Jun-19 | Combined | 16397 | 17 | 2.208 | 4.4 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Schuylkill |
| | | 608-3 | | 31-Oct-18 | Combined | 5410 | 17 | 0.715 | 1.4 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Schuylkill |
| | | 608-4 | | 19-Feb-19 | Combined | 3661 | 17 | 0.56 | 1.1 | Infiltration/Storage Trench | Open Space | | | Schuylkill |
| 50102 | 1012 | 1012-1 | Gray's Ferry Neighborhood Disconnection SMP Lanier Park | 06-Oct-16 | Combined | 224448 | 0 | 0 | 0.0 | Infiltration/Storage Trench | Open Space | $3,692,000.00 | Philadelphia Department of Parks & Recreation | Schuylkill |
| 50103 | 1024 | 1024-1 | Drainage Well | 07-Sep-18 | Combined | 561.38 | 0 | 0.171 | 0.2 | Drainage Well | Streets | $611,000.00 | | Cobbs-Darby |
| | 1025 | 1025-1 | | 07-Sep-18 | Combined | 258.31 | 0 | 0.182 | 0.3 | Drainage Well | Streets | | | Delaware |
| | 1029 | 1029-1 | | 07-Sep-18 | Combined | 458.27 | 0 | 0.439 | 0.3 | Drainage Well | Streets | | | Delaware |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50104 | 1050 | 1050-1 | Stenton Park and Streets Locations | 06-Apr-18 | Combined | 2045 | 26 | 0.28 | 0.6 | Tree Trench | Streets | $2,294,000.00 | | TTF |
| | | 1050-2 | | 24-May-18 | Combined | 3580 | 26 | 0.523 | 1.0 | Tree Trench | Streets | | | TTF |
| | | 1050-3 | | 14-Jun-18 | Combined | 939 | 26 | 0.247 | 0.4 | Tree Trench | Streets | | | TTF |
| | | 1050-4 | | 15-Oct-18 | Combined | 1740 | 26 | 0.323 | 0.6 | Tree Trench | Streets | | | TTF |
| | | 1050-5 | | 17-May-18 | Combined | 2652 | 26 | 0.441 | 0.8 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1050-8 | | 29-Aug-18 | Combined | 2487 | 26 | 0.535 | 0.8 | Tree Trench | Streets | | | TTF |
| | | 1050-9 | | 14-May-18 | Combined | 1241 | 26 | 0.185 | 0.4 | Tree Trench | Streets | | | TTF |
| | 578 | 578-1 | | 04-Jun-18 | Combined | 7803 | 21 | 1.065 | 2.1 | Infiltration/Storage Trench | Open Space | | Philadelphia Department of Parks & Recreation | TTF |
| | | 578-2 | | 18-Oct-18 | Combined | 6283 | 21 | 0.802 | 1.6 | Infiltration/Storage Trench, Rain Garden | Open Space | | | TTF |
| | | 578-3 | | 18-Oct-18 | Combined | 6416 | 21 | 0.827 | 1.7 | Infiltration/Storage Trench, Rain Garden | Open Space | | | TTF |
| | | 578-4 | | 07-Dec-18 | Combined | 2299 | 21 | 0.309 | 0.6 | Rain Garden | Open Space | | | TTF |
| | | 578-5 | | 19-Oct-18 | Combined | 1430 | 21 | 0.232 | 0.5 | Tree Trench | Open Space | | | TTF |
| 50105 | 1051 | 1051-1 | Francis Myers Recreation Center and Streets Locations | 17-Nov-20 | Combined | 8410 | 70 | 1.764 | 3.5 | Green Gutter, Infiltration/Storage Trench | Streets | $4,242,000.00 | | Cobbs-Darby,Schuylkill |
| | | 1051-10 | | 16-Apr-21 | Combined | 1902 | 70 | 0.286 | 0.6 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-11 | | 16-Apr-21 | Combined | 1676 | 70 | 0.435 | 0.9 | Bumpout, Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-12 | | 16-Apr-21 | Combined | 3058 | 70 | 0.422 | 0.8 | Bumpout, Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-13 | | 15-Jul-21 | Combined | 4459 | 70 | 0.858 | 1.5 | Bumpout, Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-14 | | 22-Apr-21 | Combined | 2359 | 70 | 0.364 | 0.7 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-15 | | 28-Apr-21 | Combined | 3188 | 70 | 0.437 | 0.9 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-16 | | 10-Jun-21 | Combined | 2674 | 70 | 0.406 | 0.8 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-17 | | 22-Apr-21 | Combined | 901 | 70 | 0.125 | 0.3 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-18 | | 21-May-21 | Combined | 4218 | 70 | 0.586 | 1.2 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-19 | | 15-Jul-21 | Combined | 1325 | 70 | 0.217 | 0.4 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-2 | | 17-Nov-20 | Combined | 4330 | 70 | 0.597 | 1.2 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-20 | | 02-Jun-21 | Combined | 653 | 70 | 0.125 | 0.2 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-21 | | 02-Jun-21 | Combined | 2531 | 70 | 0.381 | 0.8 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-22 | | 02-Jun-21 | Combined | 3282 | 70 | 0.581 | 1.0 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-3 | | 25-Jan-21 | Combined | 2092 | 70 | 0.485 | 0.7 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-4 | | 25-Jan-21 | Combined | 1135 | 70 | 0.177 | 0.4 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-5 | | 25-Jan-21 | Combined | 1567 | 70 | 0.255 | 0.5 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-6 | | 25-Jan-21 | Combined | 1548 | 70 | 0.32 | 0.5 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-7 | | 25-Jan-21 | Combined | 2894 | 70 | 0.411 | 0.8 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-8 | | 22-Apr-21 | Combined | 1898 | 70 | 0.35 | 0.6 | Bumpout, Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1051-9 | | 16-Apr-21 | Combined | 2506 | 70 | 0.411 | 0.8 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50108 | 1053 | 1053-1 | Fotterall Square Streets | 12-May-21 | Combined | 1316 | 25 | 0.202 | 0.4 | Bumpout, Infiltration/Storage Trench | Streets | $1,740,000.00 | | Delaware |
| | | 1053-10 | | 12-May-21 | Combined | 1678 | 25 | 0.418 | 0.6 | Tree Trench | Streets | | | Delaware |
| | | 1053-2 | | 13-May-21 | Combined | 1049 | 25 | 0.14 | 0.3 | Bumpout, Tree Trench | Streets | | | Delaware |
| | | 1053-3 | | 17-Sep-21 | Combined | 3605 | 25 | 0.516 | 1.0 | Tree Trench | Streets | | | Delaware |
| | | 1053-4 | | 13-May-21 | Combined | 1614 | 25 | 0.243 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1053-5 | | 13-May-21 | Combined | 2153 | 25 | 0.338 | 0.7 | Tree Trench | Streets | | | Delaware |
| | | 1053-6 | | 17-Sep-21 | Combined | 1366 | 25 | 0.241 | 0.5 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1053-7 | | 15-Feb-22 | Combined | 922 | 25 | 0.22 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1053-8 | | 04-Mar-22 | Combined | 1510 | 25 | 0.274 | 0.5 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| | | 1053-9 | | 20-Sep-21 | Combined | 1707 | 25 | 0.268 | 0.5 | Tree Trench | Streets | | | Delaware |
| | 1054 | 1054-1 | | 07-Mar-22 | Combined | 2022 | 3 | 0.316 | 0.6 | Infiltration/Storage Trench, Rain Garden | Open Space | | Philadelphia School District | Delaware |
| 50109 | 1023 | 1023-1 | Osage Ave from 42nd to 43rd | 28-Mar-19 | Combined | 40 | 11 | 0.016 | 0.0 | Stormwater Tree | Streets | $197,000.00 | | Schuylkill |
| | | 1023-10 | | 28-Mar-19 | Combined | 40 | 11 | 0.014 | 0.0 | Stormwater Tree | Streets | | | Schuylkill |
| | | 1023-11 | | 28-Mar-19 | Combined | 40 | 11 | 0.014 | 0.0 | Stormwater Tree | Streets | | | Schuylkill |
| | | 1023-2 | | 28-Mar-19 | Combined | 40 | 11 | 0.015 | 0.0 | Stormwater Tree | Streets | | | Schuylkill |
| | | 1023-3 | | 28-Mar-19 | Combined | 40 | 11 | 0.016 | 0.0 | Stormwater Tree | Streets | | | Schuylkill |
| | | 1023-4 | | 28-Mar-19 | Combined | 40 | 11 | 0.016 | 0.0 | Stormwater Tree | Streets | | | Schuylkill |
| | | 1023-5 | | 28-Mar-19 | Combined | 40 | 11 | 0.031 | 0.0 | Stormwater Tree | Streets | | | Schuylkill |
| | | 1023-6 | | 28-Mar-19 | Combined | 40 | 11 | 0.02 | 0.0 | Stormwater Tree | Streets | | | Schuylkill |
| | | 1023-7 | | 28-Mar-19 | Combined | 40 | 11 | 0.015 | 0.0 | Stormwater Tree | Streets | | | Schuylkill |
| | | 1023-8 | | 28-Mar-19 | Combined | 40 | 11 | 0.013 | 0.0 | Stormwater Tree | Streets | | | Schuylkill |
| | | 1023-9 | | 28-Mar-19 | Combined | 40 | 11 | 0.013 | 0.0 | Stormwater Tree | Streets | | | Schuylkill |
| 50110 | 242 | 242-1 | North Morris Park | 03-Jul-21 | Combined | 8165 | 85 | 2.298 | 4.6 | Infiltration/Storage Trench, Rain Garden | Streets | $2,372,000.00 | Philadelphia Department of Parks & Recreation | Cobbs-Darby |
| | | 242-2 | | 31-Oct-23 | Combined | 10827 | 85 | 1.702 | 3.4 | Infiltration/Storage Trench, Rain Garden | Streets | | | Cobbs-Darby |
| 50111 | 376 | 376-1 | Mt. Airy Church | 29-Oct-18 | Combined | 4812 | 11 | 0.662 | 1.3 | Bumpout, Infiltration/Storage Trench | Streets | $967,000.00 | | TTF |
| | | 376-2 | | 29-Oct-18 | Combined | 1891 | 11 | 0.26 | 0.5 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 376-3 | | 29-Oct-18 | Combined | 1284 | 11 | 0.18 | 0.4 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 376-5 | | 29-Oct-18 | Combined | 1590 | 11 | 0.22 | 0.4 | Tree Trench | Streets | | | TTF |
| | | 376-6 | | 29-Oct-18 | Combined | 2545 | 11 | 0.437 | 0.8 | Tree Trench | Streets | | | TTF |
| 50112 | 1055 | 1055-1 | Botanic Ave | 09-Feb-18 | Combined | 5745 | 50 | 0.353 | 0.7 | Rain Garden | Streets | $500,000.00 | Philadelphia Department of Parks & Recreation | Schuylkill |
| | | 1055-2 | | 09-Feb-18 | Combined | 1526 | 50 | 0.663 | 0.5 | Rain Garden | Streets | | | Schuylkill |
| | | 1055-3 | | 09-Feb-18 | Combined | 9540 | 50 | 1.462 | 2.9 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill |
| 50113 | 600 | 600-1 | 37th and Mount Vernon Playground | 16-Dec-16 | Combined | 2006 | 5 | 0.266 | 0.5 | Infiltration/Storage Trench, Rain Garden | Open Space | $72,000.00 | Philadelphia Department of Parks & Recreation | Schuylkill |
| 50118 | 1059 | 1059-1 | Street Crossings - Aramingo, Cedar, Cambria, Almond | 14-Dec-20 | Combined | 2605 | 8 | 0.439 | 0.9 | Infiltration/Storage Trench, Rain Garden | Streets | $1,230,000.00 | | Delaware |
| | | 1059-2 | | 03-Dec-20 | Combined | 3643 | 8 | 0.885 | 1.2 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1059-3 | | 30-Jul-20 | Combined | 1261 | 8 | 0.275 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1059-4 | | 26-Aug-20 | Combined | 1186 | 8 | 0.262 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1059-5 | | 25-Nov-20 | Combined | 2353 | 8 | 0.436 | 0.8 | Bumpout, Tree Trench | Streets | | | Delaware |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50119 | 1067 | 1067-1 | Cement Park (Northern Liberties Rec Center) | 08-May-19 | Combined | 3163 | 0 | 0.716 | 1.1 | Infiltration/Storage Trench | Streets | $1,222,000.00 | | Delaware |
| | | 1067-2 | | 08-May-19 | Combined | 1024 | 0 | 0.125 | 0.3 | Infiltration/Storage Trench, Rain Garden | Streets | | | Delaware |
| | | 1067-3 | | 08-May-19 | Combined | 1661 | 0 | 0.291 | 0.5 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| | | 1067-4 | | 08-May-19 | Combined | 3191 | 0 | 0.504 | 1.0 | Rain Garden | Streets | | | Delaware |
| | 1068 | 1068-1 | | 08-May-19 | Combined | 1603 | 5 | 0.271 | 0.5 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| 50120 | 1070 | 1070-1 | McPherson Streets | 24-Mar-21 | Combined | 3019 | 56 | 0.596 | 1.2 | Tree Trench | Streets | $1,924,000.00 | | Delaware |
| | | 1070-10 | | 24-Mar-21 | Combined | 1437 | 56 | 0.285 | 0.6 | Tree Trench | Streets | | | Delaware |
| | | 1070-11 | | 24-Mar-21 | Combined | 1019 | 56 | 0.212 | 0.3 | Tree Trench | Streets | | | Delaware |
| | | 1070-12 | | 24-Mar-21 | Combined | 1116 | 56 | 0.289 | 0.6 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1070-13 | | 24-Mar-21 | Combined | 1688 | 56 | 0.278 | 0.6 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1070-14 | | 24-Mar-21 | Combined | 2088 | 56 | 0.339 | 0.6 | Tree Trench | Streets | | | Delaware |
| | | 1070-15 | | 24-Mar-21 | Combined | 1677 | 56 | 0.25 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1070-16 | | 24-Mar-21 | Combined | 2454 | 56 | 0.581 | 1.0 | Tree Trench | Streets | | | Delaware |
| | | 1070-3 | | 24-Mar-21 | Combined | 3136 | 56 | 0.578 | 1.0 | Tree Trench | Streets | | | Delaware |
| | | 1070-4 | | 24-Mar-21 | Combined | 2078 | 56 | 0.418 | 0.7 | Tree Trench | Streets | | | Delaware |
| | | 1070-5 | | 24-Mar-21 | Combined | 1478 | 56 | 0.225 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1070-6 | | 24-Mar-21 | Combined | 2747 | 56 | 0.499 | 1.0 | Infiltration/Storage Trench, Tree Trench | Streets | | | Delaware |
| | | 1070-7 | | 24-Mar-21 | Combined | 1689 | 56 | 0.315 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1070-8 | | 24-Mar-21 | Combined | 2012 | 56 | 0.394 | 0.6 | Tree Trench | Streets | | | Delaware |
| 50122 | 1077 | 1077-1 | Mount Sinai | 07-Jun-19 | Combined | 4959 | 2 | 0.876 | 1.8 | Infiltration/Storage Trench | Open Space | $3,652,000.00 | | Delaware,TTF |
| | | 1077-2 | | 30-Aug-19 | Combined | 2646 | 2 | 0.479 | 1.0 | Tree Trench | Vacant Land | | | Delaware,TTF |
| | 1083 | 1083-1 | | 20-Jun-19 | Combined | 837 | 54 | 0.155 | 0.3 | Infiltration/Storage Trench | Streets | | Philadelphia Department of Parks & Recreation | Delaware,TTF |
| | | 1083-10 | | 06-May-19 | Combined | 3808 | 54 | 0.659 | 1.3 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1083-11 | | 01-May-19 | Combined | 1852 | 54 | 0.318 | 0.6 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1083-12 | | 03-May-19 | Combined | 2263 | 54 | 0.384 | 0.7 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1083-13 | | 29-Jul-19 | Combined | 1353 | 54 | 0.272 | 0.5 | Infiltration/Storage Trench, Planter | Streets | | | Delaware,TTF |
| | | 1083-14 | | 17-Jul-19 | Combined | 3737 | 54 | 0.703 | 1.2 | Planter, Tree Trench | Streets | | | Delaware,TTF |
| | | 1083-2 | | 03-Apr-19 | Combined | 2689 | 54 | 0.397 | 0.8 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1083-3 | | 03-Apr-19 | Combined | 2539 | 54 | 0.425 | 0.9 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1083-4 | | 03-Apr-19 | Combined | 7041 | 54 | 1.005 | 2.0 | Bumpout, Tree Trench | Streets | | | Delaware,TTF |
| | | 1083-5 | | 04-Jan-19 | Combined | 2975 | 54 | 0.566 | 1.1 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1083-6 | | 01-Apr-19 | Combined | 7304 | 54 | 1.286 | 2.3 | Infiltration/Storage Trench, Swale | Streets | | | Delaware,TTF |
| | | 1083-7 | | 01-Apr-19 | Combined | 5245 | 54 | 0.951 | 1.9 | Infiltration/Storage Trench, Swale | Streets | | | Delaware,TTF |
| | | 1083-8 | | 20-Dec-18 | Combined | 2766 | 54 | 0.474 | 0.9 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1083-9 | | 20-Dec-18 | Combined | 1115 | 54 | 0.197 | 0.4 | Tree Trench | Streets | | | Delaware,TTF |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50123 | 1084 | 1084-1 | Allegheny Ave Safety Corridor Improvement Project (MPMS 85417) | 10-Jan-19 | Combined | 1419 | 0 | 0.232 | 0.4 | Infiltration/Storage Trench | Streets | Unknown | PennDOT | Delaware |
| | | 1084-2 | | 10-Jan-19 | Combined | 1485 | 0 | 0.21 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1084-3 | | 10-Jan-19 | Combined | 1027 | 0 | 0.159 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1084-4 | | 10-Jan-19 | Combined | 1293 | 0 | 0.172 | 0.3 | Infiltration/Storage Trench, Rain Garden | Streets | | | Delaware |
| | | 1084-5 | | 10-Jan-19 | Combined | 1582 | 0 | 0.205 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1084-6 | | 10-Jan-19 | Combined | 2086 | 0 | 0.268 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1084-7 | | 10-Jan-19 | Combined | 1598 | 0 | 0.216 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1084-8 | | 10-Jan-19 | Combined | 1106 | 0 | 0.149 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware |
| 50124 | 1085 | 1085-1 | Trenton and Auburn Playground | 05-Feb-20 | Combined | 55349 | 0 | 7.681 | 15.4 | Infiltration/Storage Trench | Open Space | $3,167,000.00 | | Delaware |
| 50125 | 1087 | 1087-1 | Lawncrest Streets Southeast | 07-Sep-21 | Combined | 3866 | 9 | 0.733 | 1.5 | Bumpout, Infiltration/Storage Trench | Streets | $2,446,000.00 | | Delaware,TTF |
| | | 1087-2 | | 08-Sep-21 | Combined | 5982 | 9 | 1.096 | 2.2 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1087-3 | | 08-Sep-21 | Combined | 6721 | 9 | 1.216 | 2.4 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1087-4 | | 08-Sep-21 | Combined | 5698 | 9 | 1.038 | 2.1 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1087-5 | | 02-Sep-21 | Combined | 5216 | 9 | 0.955 | 1.7 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1087-6 | | 02-Sep-21 | Combined | 5881 | 9 | 0.992 | 2.0 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1087-7 | | 06-Sep-21 | Combined | 5031 | 9 | 0.989 | 2.0 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1087-8 | | 03-Sep-21 | Combined | 4494 | 9 | 0.747 | 1.5 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1087-9 | | 03-Sep-21 | Combined | 2627 | 9 | 0.45 | 0.9 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| 50128 | 1090 | 1090-1 | Weinberg Park and Street Locations | 21-May-25 | Combined | 1636 | 50 | 0.394 | 0.6 | Tree Trench | Streets | $4,393,000.00 | | Delaware |
| | | 1090-10 | | 16-May-25 | Combined | 1099 | 50 | 0.202 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1090-11 | | 16-May-25 | Combined | 1335 | 50 | 0.249 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1090-2 | | 19-May-25 | Combined | 1609 | 50 | 0.332 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1090-3 | | 16-May-25 | Combined | 1170 | 50 | 0.179 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1090-4 | | 16-May-25 | Combined | 1359 | 50 | 0.187 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1090-5 | | 16-May-25 | Combined | 1180 | 50 | 0.163 | 0.3 | Tree Trench | Streets | | | Delaware |
| | | 1090-6 | | 03-Jun-25 | Combined | 950 | 50 | 0.148 | 0.3 | Tree Trench | Streets | | | Delaware |
| | 1107 | 1107-1 | | 19-May-25 | Combined | 1324 | 11 | 0.182 | 0.4 | Tree Trench | Streets | | Philadelphia Department of Parks & Recreation | Delaware |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50129 | 1127 | 1127-1 | Girard Park and Warriner Post Park | 29-Jun-20 | Combined | 5602 | 11 | 0.83 | 1.7 | Rain Garden, Tree Trench | Vacant Land | $2,555,000.00 | Philadelphia Department of Parks & Recreation | Schuylkill |
| | 1128 | 1128-1 | | 29-Jun-20 | Combined | 4925 | 8 | 0.81 | 1.6 | Bumpout, Tree Trench | Streets | | | Schuylkill |
| | | 1128-2 | | 29-Jun-20 | Combined | 4395 | 8 | 0.564 | 1.1 | Bumpout, Tree Trench | Streets | | | Schuylkill |
| | | 1128-3 | | 29-Jun-20 | Combined | 5064 | 8 | 0.86 | 1.7 | Bumpout, Tree Trench | Streets | | | Schuylkill |
| | 1129 | 1129-1 | | 21-Feb-20 | Combined | 1139.18 | 19 | 0.126 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1129-2 | | 21-Feb-20 | Combined | 690 | 19 | 0.095 | 0.2 | Tree Trench | Streets | | | Schuylkill |
| | | 1129-3 | | 10-Jan-20 | Combined | 1015.28 | 19 | 0.133 | 0.3 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1129-4 | | 10-Jan-20 | Combined | 4439.43 | 19 | 0.568 | 1.1 | Tree Trench | Streets | | | Schuylkill |
| | | 1129-5 | | 13-Jan-20 | Combined | 1373.69 | 19 | 0.175 | 0.4 | Tree Trench | Streets | | | Schuylkill |
| | | 1129-6 | | 17-Jan-20 | Combined | 4530 | 19 | 0.713 | 1.4 | Tree Trench | Streets | | | Schuylkill |
| | | 1129-7 | | 17-Jan-20 | Combined | 4214.42 | 19 | 0.622 | 1.2 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| 50132 | 1137 | 1137-1 | Max Myers | 19-May-21 | Combined | 12427 | 12 | 1.831 | 3.7 | Infiltration/Storage Trench, Rain Garden, Swale | Open Space | $3,089,000.00 | | Delaware |
| | | 1137-2 | | 25-Nov-19 | Combined | 20572 | 12 | 3.216 | 6.4 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| | | 1137-3 | | 25-Nov-19 | Combined | 2893 | 12 | 0.65 | 1.3 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1137-4 | | 25-Nov-19 | Combined | 3237 | 12 | 0.491 | 1.0 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1137-5 | | 25-Nov-19 | Combined | 1262 | 12 | 0.195 | 0.4 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1137-6 | | 25-Nov-19 | Combined | 790 | 12 | 0.108 | 0.2 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1137-7 | | 25-Nov-19 | Combined | 5851 | 12 | 0.804 | 1.6 | Tree Trench | Streets | | | Delaware |
| | 1138 | 1138-1 | | 25-Nov-19 | Combined | 1208 | 11 | 0.158 | 0.3 | Tree Trench | Streets | | | Delaware |
| | | 1138-2 | | 25-Nov-19 | Combined | 796 | 11 | 0.114 | 0.2 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1138-3 | | 25-Nov-19 | Combined | 709 | 11 | 0.109 | 0.2 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1138-4 | | 25-Nov-19 | Combined | 3928 | 11 | 0.661 | 1.2 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1138-5 | | 25-Nov-19 | Combined | 818 | 11 | 0.116 | 0.2 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1138-6 | | 25-Nov-19 | Combined | 2930 | 11 | 0.437 | 0.9 | Bumpout, Tree Trench | Streets | | | Delaware |
| | | 1138-8 | | 25-Nov-19 | Combined | 1562 | 11 | 0.206 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50133 | 1139 * | 1139-1 | Lawncrest Streets Southwest | 18-May-23 | Combined | 2718 | 64 | 0.514 | 0.9 | Bumpout, Infiltration/Storage Trench | Streets | $5,766,000.00 | | TTF |
| | | 1139-10 | | 10-Mar-23 | Combined | 1998 | 64 | 0.351 | 0.6 | Tree Trench | Streets | | | TTF |
| | | 1139-11 | | 17-Nov-22 | Combined | 1820 | 64 | 0.344 | 0.7 | Tree Trench | Streets | | | TTF |
| | | 1139-12 | | 07-Mar-23 | Combined | 1673 | 64 | 0.395 | 0.5 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1139-13 | | 25-May-23 | Combined | 1387 | 64 | 0.294 | 0.5 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1139-14 | | 08-Mar-22 | Combined | 1554 | 64 | 0.307 | 0.5 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1139-15 | | 25-May-23 | Combined | 1822 | 64 | 0.316 | 0.6 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1139-16 | | 25-May-23 | Combined | 1702 | 64 | 0.405 | 0.6 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1139-17 | | 14-Nov-23 | Combined | 2221 | 64 | 0.559 | 0.8 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1139-18 | | 14-Nov-23 | Combined | 1310 | 64 | 0.252 | 0.4 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1139-19 | | 25-May-23 | Combined | 2050 | 64 | 0.453 | 0.6 | Tree Trench | Streets | | | TTF |
| | | 1139-2 | | 22-Sep-23 | Combined | 2984 | 64 | 0.435 | 0.9 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 1139-20 | | 14-Nov-23 | Combined | 2318 | 64 | 0.392 | 0.7 | Tree Trench | Streets | | | TTF |
| | | 1139-21 | | 15-Jul-22 | Combined | 2125 | 64 | 0.431 | 0.7 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 1139-22 | | 15-Jul-22 | Combined | 4355 | 64 | 1.135 | 1.4 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 1139-23 | | 25-Aug-22 | Combined | 4204 | 64 | 0.58 | 1.2 | Infiltration/Storage Trench, Stormwater Tree | Streets | | | TTF |
| | | 1139-24 | | 15-Jul-22 | Combined | 2023 | 64 | 0.307 | 0.6 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 1139-25 | | 15-Jul-22 | Combined | 1865 | 64 | 0.292 | 0.6 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1139-26 | | 15-Jul-22 | Combined | 1674 | 64 | 0.226 | 0.5 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 1139-27 | | 15-Jul-22 | Combined | 3774 | 64 | 0.825 | 1.7 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 1139-28 | | 15-Jul-22 | Combined | 3282 | 64 | 0.644 | 1.2 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 1139-29 | | 15-Jul-22 | Combined | 5402 | 64 | 0.992 | 1.7 | Tree Trench | Streets | | | TTF |
| | | 1139-3 | | 10-Mar-21 | Combined | 2996 | 64 | 0.558 | 0.9 | Tree Trench | Streets | | | TTF |
| | | 1139-4 | | 10-Mar-23 | Combined | 1156 | 64 | 0.278 | 0.4 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1139-5 | | 10-Mar-23 | Combined | 1359 | 64 | 0.282 | 0.5 | Tree Trench | Streets | | | TTF |
| | | 1139-6 | | 10-Mar-23 | Combined | 1140 | 64 | 0.305 | 0.5 | Tree Trench | Streets | | | TTF |
| | | 1139-7 | | 10-Mar-23 | Combined | 853 | 64 | 0.342 | 0.3 | Tree Trench | Streets | | | TTF |
| | | 1139-8 | | 17-Nov-22 | Combined | 887 | 64 | 0.159 | 0.3 | Tree Trench | Streets | | | TTF |
| | | 1139-9 | | 10-Mar-23 | Combined | 1196 | 64 | 0.176 | 0.4 | Tree Trench | Streets | | | TTF |
| | 1298 * | 1298-1 | | 15-Jul-22 | Combined | 1205 | 0 | 0.263 | 0.4 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1298-2 | | 15-Jul-22 | Combined | 2080 | 0 | 0.523 | 0.8 | Infiltration/Storage Trench | Streets | | | TTF |
| 50134 | 1140 | 1140-1 | Wharton Square Greening Improvements | 18-Jun-19 | Combined | 11800 | 11 | 1.812 | 3.6 | Infiltration/Storage Trench, Rain Garden | Open Space | $892,000.00 | | Schuylkill |
| | | 1140-2 | | 08-Feb-19 | Combined | 1279 | 11 | 0.275 | 0.6 | Rain Garden | Open Space | | | Schuylkill |
| | | 1140-3 | | 13-Feb-19 | Combined | 9545 | 11 | 2.034 | 3.1 | Rain Garden, Tree Trench | Open Space | | | Schuylkill |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50135 | 1142 | 1142-1 | PHA/Blumberg Campus Green Streets | 30-Mar-20 | Combined | 1687 | 26 | 0.178 | 0.4 | Infiltration/Storage Trench, Stormwater Tree | Streets | $291,000.00 | Philadelphia Housing Authority | Schuylkill |
| | | 1142-2 | | 30-Mar-20 | Combined | 1726 | 26 | 0.175 | 0.4 | Infiltration/Storage Trench, Stormwater Tree | Streets | | | Schuylkill |
| | | 1142-3 | | 30-Mar-20 | Combined | 1718 | 26 | 0.198 | 0.4 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1142-4 | | 30-Mar-20 | Combined | 1747 | 26 | 0.233 | 0.5 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1142-5 | | 30-Mar-20 | Combined | 1595 | 26 | 0.163 | 0.3 | Infiltration/Storage Trench, Stormwater Tree | Streets | | | Schuylkill |
| | | 1142-6 | | 30-Mar-20 | Combined | 1485 | 26 | 0.173 | 0.3 | Infiltration/Storage Trench, Stormwater Tree | Streets | | | Schuylkill |
| | | 1142-7 | | 30-Mar-20 | Combined | 1897 | 26 | 0.309 | 0.5 | Infiltration/Storage Trench, Stormwater Tree | Streets | | | Schuylkill |
| | | 1142-8 | | 30-Mar-20 | Combined | 1875 | 26 | 0.218 | 0.4 | Infiltration/Storage Trench, Stormwater Tree | Streets | | | Schuylkill |
| 50138 | 1145 | 1145-1 | Buist Avenue Green Streets and Buist Park Improvements | 19-Nov-19 | Combined | 2226 | 21 | 0.312 | 0.6 | Bumpout, Tree Trench | Streets | $2,579,000.00 | Philadelphia Department of Parks & Recreation | Schuylkill |
| | | 1145-10 | | 19-Nov-19 | Combined | 769 | 21 | 0.148 | 0.3 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1145-11 | | 19-Nov-19 | Combined | 2709 | 21 | 0.47 | 0.9 | Bumpout, Tree Trench | Streets | | | Schuylkill |
| | | 1145-12 | | 19-Nov-19 | Combined | 2736 | 21 | 0.392 | 0.8 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1145-13 | | 19-Nov-19 | Combined | 3074 | 21 | 0.458 | 0.9 | Bumpout, Tree Trench | Streets | | | Schuylkill |
| | | 1145-2 | | 19-Nov-19 | Combined | 957 | 21 | 0.151 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1145-3 | | 19-Nov-19 | Combined | 2011 | 21 | 0.427 | 0.7 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1145-4 | | 19-Nov-19 | Combined | 1107 | 21 | 0.144 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1145-5 | | 19-Nov-19 | Combined | 1435 | 21 | 0.293 | 0.5 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1145-6 | | 19-Nov-19 | Combined | 892 | 21 | 0.135 | 0.3 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1145-7 | | 19-Nov-19 | Combined | 1822 | 21 | 0.415 | 0.6 | Bumpout, Tree Trench | Streets | | | Schuylkill |
| | | 1145-8 | | 19-Nov-19 | Combined | 961 | 21 | 0.134 | 0.3 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1145-9 | | 19-Nov-19 | Combined | 1601 | 21 | 0.26 | 0.5 | Bumpout, Tree Trench | Streets | | | Schuylkill |
| | 1146 | 1146-1 | | 19-Nov-19 | Combined | 7861 | 3 | 1.344 | 2.6 | Bumpout, Infiltration/Storage Trench, Rain Garden | Open Space | | | Schuylkill |
| 50143 | 1195 | 1195-1 | Parkside Edge - Green Streets Buyback | 19-Jan-18 | Combined | 11930 | 0 | 0.793 | 1.6 | Infiltration/Storage Trench, Rain Garden | Open Space | $1,163,000.00 | Fairmount Park Conservancy | Schuylkill |
| | | 1195-2 | | 19-Jan-18 | Combined | 4341 | 0 | 0.596 | 1.2 | Rain Garden | Open Space | | | Schuylkill |
| | | 1195-3 | | 19-Jan-18 | Combined | 9397 | 0 | 1.196 | 2.4 | Rain Garden | Open Space | | | Schuylkill |
| 50145 | 1163 | 1163-1 | Nelson Playground and Hissey Playground Green Improvement | 07-Feb-20 | Combined | 1861 | 6 | 0.334 | 0.6 | Infiltration/Storage Trench, Rain Garden | Open Space | $636,000.00 | | Delaware |
| | | 1163-2 | | 07-Feb-20 | Combined | 8344 | 6 | 1.423 | 2.6 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Delaware |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50146 | 1197 | 1197-1 | Point Breeze Vacant Lots | 21-May-19 | Combined | 1484 | 3 | 0.286 | 0.5 | Infiltration/Storage Trench, Rain Garden | Vacant Land | $2,074,000.00 | | Schuylkill |
| | 1198 | 1198-1 | | 19-Nov-18 | Combined | 861 | 43 | 0.145 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1198-2 | | 25-Oct-18 | Combined | 943 | 43 | 0.264 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1198-3 | | 29-Oct-18 | Combined | 8787 | 43 | 1.667 | 3.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1198-4 | | 09-Nov-18 | Combined | 1206 | 43 | 0.161 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1198-6 | | 14-Mar-19 | Combined | 906.5 | 43 | 0.161 | 0.3 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1198-7 | | 03-May-19 | Combined | 3701.8 | 43 | 0.464 | 0.4 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill |
| | | 1198-8 | | 28-Jan-19 | Combined | 3291.8 | 43 | 0.504 | 1.0 | Tree Trench | Streets | | | Schuylkill |
| 50148 | 1200 | 1200-1 | Elmwood Medians Package | 08-Oct-20 | Combined | 7164 | 21 | 1.129 | 2.2 | Infiltration/Storage Trench, Rain Garden | Streets | $942,000.00 | | Cobbs-Darby,Schuylkill |
| | | 1200-2 | | 08-Oct-20 | Combined | 3278 | 21 | 0.528 | 1.0 | Infiltration/Storage Trench, Rain Garden | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1200-3 | | 08-Oct-20 | Combined | 2578 | 21 | 0.415 | 0.8 | Infiltration/Storage Trench, Rain Garden | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1200-4 | | 08-Oct-20 | Combined | 3831 | 21 | 0.612 | 1.2 | Infiltration/Storage Trench, Rain Garden | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1200-5 | | 08-Oct-20 | Combined | 1283 | 21 | 0.208 | 0.4 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| 50149 | 1202 | 1202-1 | Erie and Rising Sun Street Improvements | 30-Jul-19 | Combined | 1239 | 30 | 0.262 | 0.4 | Tree Trench | Streets | $1,690,000.00 | | Delaware |
| | | 1202-10 | | 30-Jul-19 | Combined | 1303 | 30 | 0.243 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1202-11 | | 30-Jul-19 | Combined | 1456 | 30 | 0.279 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1202-12 | | 30-Jul-19 | Combined | 1659 | 30 | 0.446 | 0.6 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1202-2 | | 30-Jul-19 | Combined | 1316 | 30 | 0.251 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1202-3 | | 30-Jul-19 | Combined | 921 | 30 | 0.189 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1202-4 | | 30-Jul-19 | Combined | 2074 | 30 | 0.308 | 0.6 | Tree Trench | Streets | | | Delaware |
| | | 1202-5 | | 30-Jul-19 | Combined | 1274 | 30 | 0.276 | 0.4 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| | | 1202-6 | | 30-Jul-19 | Combined | 1031 | 30 | 0.285 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1202-7 | | 30-Jul-19 | Combined | 1230 | 30 | 0.294 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1202-8 | | 30-Jul-19 | Combined | 4158 | 30 | 0.882 | 1.4 | Tree Trench | Streets | | | Delaware |
| | | 1202-9 | | 30-Jul-19 | Combined | 1077 | 30 | 0.26 | 0.4 | Tree Trench | Streets | | | Delaware |
| | 1379 | 1379-1 | | 30-Jul-19 | Combined | 5811 | 3 | 0.808 | 1.6 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Delaware |
| 50150 | 1015 | 1015-1 | Hagert Playground | 10-Feb-17 | Combined | 1941 | 1 | 0.36 | 0.7 | Infiltration/Storage Trench, Rain Garden | Open Space | $251,000.00 | Philadelphia Department of Parks & Recreation | Delaware |
| | | 1015-2 | | 10-Feb-17 | Combined | 2283 | 1 | 0.355 | 0.7 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Delaware |
| 50151 | 1204 | 1204-1 | Reading Viaduct | 13-Jun-18 | Combined | 1091 | 0 | 0.142 | 0.3 | Bumpout, Infiltration/Storage Trench | Streets | Unknown | Center City District | Delaware |
| 50152 | 1209 | 1209-1 | Athletic Square | 29-Jan-20 | Combined | 733.02 | 9 | 0.135 | 0.3 | Tree Trench | Streets | $813,000.00 | | Schuylkill |
| | | 1209-2 | | 29-Jan-20 | Combined | 1659 | 9 | 0.284 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | | 1209-3 | | 29-Jan-20 | Combined | 1862.63 | 9 | 0.283 | 0.6 | Infiltration/Storage Trench, Planter | Streets | | | Schuylkill |
| | | 1209-4 | | 29-Jan-20 | Combined | 1243 | 9 | 0.172 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1209-5 | | 29-Jan-20 | Combined | 2001.55 | 9 | 0.33 | 0.6 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1209-6 | | 29-Jan-20 | Combined | 1098 | 9 | 0.151 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50155 | 488 | 488-1 | Smith Playground Green Improvements | 22-May-18 | Combined | 970 | 8 | 0.167 | 0.3 | Infiltration/Storage Trench | Open Space | $678,000.00 | Department of Public Property,Philadelphia Department of Parks & Recreation,Councilman Johnson,Urban Roots | Schuylkill |
| | | 488-2 | | 22-May-18 | Combined | 4257 | 8 | 0.768 | 1.5 | Rain Garden, Tree Trench | Open Space | | | Schuylkill |
| | | 488-3 | | 22-May-18 | Combined | 2249 | 8 | 0.415 | 0.8 | Infiltration/Storage Trench | Open Space | | | Schuylkill |
| | | 488-4 | | 22-May-18 | Combined | 2168 | 8 | 0.42 | 0.8 | Infiltration/Storage Trench | Open Space | | | Schuylkill |
| | | 488-5 | | 22-May-18 | Combined | 1081 | 8 | 0.161 | 0.3 | Infiltration/Storage Trench | Open Space | | | Schuylkill |
| 50157 | 1240 | 1240-1 | Kensington Green Street Improvements | 17-Mar-20 | Combined | 1195 | 18 | 0.192 | 0.4 | Tree Trench | Streets | $984,000.00 | | Delaware |
| | | 1240-2 | | 20-Mar-20 | Combined | 461 | 18 | 0.12 | 0.2 | Tree Trench | Streets | | | Delaware |
| | | 1240-3 | | 20-Mar-20 | Combined | 720 | 18 | 0.154 | 0.3 | Tree Trench | Streets | | | Delaware |
| | | 1240-4 | | 20-Mar-20 | Combined | 1713 | 18 | 0.258 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1240-5 | | 20-Mar-20 | Combined | 787 | 18 | 0.17 | 0.3 | Tree Trench | Streets | | | Delaware |
| | | 1240-6 | | 20-Mar-20 | Combined | 684 | 18 | 0.16 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1240-7 | | 20-Mar-20 | Combined | 4408 | 18 | 0.651 | 1.3 | Tree Trench | Streets | | | Delaware |
| | | 1240-8 | | 19-Mar-20 | Combined | 1350 | 18 | 0.379 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1240-9 | | 13-Mar-20 | Combined | 850 | 18 | 0.187 | 0.3 | Tree Trench | Streets | | | Delaware |
| 50158 | 1221 | 1221-1 | 53rd and Baltimore | 27-Aug-21 | Combined | 3099 | 0 | 0.489 | 1.0 | Infiltration/Storage Trench, Rain Garden | Streets | $247,000.00 | Philadelphia Streets Department | Cobbs-Darby |
| | | 1221-2 | | 11-May-21 | Combined | 6233 | 0 | 0.809 | 1.6 | Infiltration/Storage Trench, Rain Garden | Streets | | | Cobbs-Darby |
| 50160 | 1242 | 1242-1 | Kensington Neighborhood Greening Phase 2 | 08-Apr-21 | Combined | 1993 | 17 | 0.312 | 0.6 | Infiltration/Storage Trench | Streets | $1,338,000.00 | | Delaware |
| | | 1242-10 | | 08-Apr-21 | Combined | 2647 | 17 | 0.457 | 0.8 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1242-11 | | 17-Aug-22 | Combined | 2497 | 17 | 0.455 | 0.8 | Tree Trench | Streets | | | Delaware |
| | | 1242-2 | | 08-Apr-21 | Combined | 2418 | 17 | 0.51 | 0.7 | Tree Trench | Streets | | | Delaware |
| | | 1242-3 | | 08-Apr-21 | Combined | 2511 | 17 | 0.39 | 0.8 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1242-4 | | 08-Apr-21 | Combined | 1030 | 17 | 0.162 | 0.3 | Tree Trench | Streets | | | Delaware |
| | | 1242-7 | | 08-Apr-21 | Combined | 1268 | 17 | 0.228 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1242-8 | | 08-Apr-21 | Combined | 1184 | 17 | 0.24 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1242-9 | | 08-Apr-21 | Combined | 915 | 17 | 0.176 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware |
| 50162 | 1265 | 1265-1 | Cedar Park Neighborhood Streets Package 1 | 17-Feb-20 | Combined | 1105 | 16 | 0.163 | 0.3 | Tree Trench | Streets | $1,951,000.00 | | Cobbs-Darby,Schuylkill |
| | | 1265-10 | | 02-Jul-20 | Combined | 2992 | 16 | 0.527 | 1.0 | Bumpout, Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1265-11 | | 08-Jun-20 | Combined | 1821 | 16 | 0.347 | 0.6 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1265-12 | | 06-Jul-20 | Combined | 1483 | 16 | 0.345 | 0.5 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1265-13 | | 20-Jul-20 | Combined | 926 | 16 | 0.156 | 0.3 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1265-14 | | 29-Jul-20 | Combined | 1439 | 16 | 0.216 | 0.4 | Bumpout, Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1265-15 | | 31-Aug-20 | Combined | 704 | 16 | 0.194 | 0.3 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1265-2 | | 20-May-20 | Combined | 2042 | 16 | 0.301 | 0.6 | Bumpout, Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1265-3 | | 20-May-20 | Combined | 1563 | 16 | 0.281 | 0.5 | Bumpout, Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1265-4 | | 11-Mar-20 | Combined | 1214 | 16 | 0.277 | 0.4 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1265-5 | | 18-Sep-20 | Combined | 1261 | 16 | 0.224 | 0.4 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1265-6 | | 11-Mar-20 | Combined | 1448 | 16 | 0.225 | 0.5 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1265-7 | | 06-May-20 | Combined | 1253 | 16 | 0.213 | 0.4 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1265-9 | | 20-May-20 | Combined | 1123 | 16 | 0.157 | 0.3 | Bumpout, Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50166 | 1264 | 1264-1 | Temple Station Green Streets | 24-Nov-20 | Combined | 4582 | 16 | 0.909 | 1.5 | Tree Trench | Streets | $1,661,000.00 | | Delaware |
| | | 1264-2 | | 24-Nov-20 | Combined | 833 | 16 | 0.15 | 0.3 | Tree Trench | Streets | | | Delaware |
| | | 1264-3 | | 24-Nov-20 | Combined | 2122 | 16 | 0.317 | 0.6 | Bumpout, Tree Trench | Streets | | | Delaware |
| | | 1264-4 | | 24-Nov-20 | Combined | 5121 | 16 | 0.904 | 1.8 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| | | 1264-5 | | 24-Nov-20 | Combined | 981 | 16 | 0.146 | 0.3 | Tree Trench | Streets | | | Delaware |
| | | 1264-6 | | 24-Nov-20 | Combined | 4095 | 16 | 0.767 | 1.5 | Infiltration/Storage Trench | Streets | | | Delaware |
| 50167 | 1267 | 1267-1 | Wissinoming | 29-Oct-21 | Combined | 66213 | 78 | 11.359 | 22.7 | Rain Garden, Wetland | Open Space | $8,187,000.00 | | Delaware |
| | | 1267-2 | | 05-Nov-21 | Combined | 22842 | 78 | 3.119 | 6.2 | Infiltration/Storage Trench | Open Space | | | Delaware |
| | | 1267-3 | | 05-Nov-21 | Combined | 47461 | 78 | 6.384 | 12.8 | Infiltration/Storage Trench | Open Space | | | Delaware |
| 50168 | 1271 | 1271-1 | Cedar Park Neighborhood Streets Package 2 | 16-Jul-24 | Combined | 719 | 13 | 0.164 | 0.3 | Tree Trench | Streets | $1,634,000.00 | | Cobbs-Darby |
| | | 1271-2 | | 16-Jul-24 | Combined | 1317 | 13 | 0.191 | 0.4 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 1271-3 | | 10-Oct-24 | Combined | 3085 | 13 | 0.628 | 1.0 | Bumpout, Tree Trench | Streets | | | Cobbs-Darby |
| | | 1271-4 | | 10-Jun-24 | Combined | 1569 | 13 | 0.445 | 0.6 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 1271-6 | | 19-Feb-24 | Combined | 1377 | 13 | 0.269 | 0.4 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 1271-7 | | 11-Apr-24 | Combined | 794 | 13 | 0.228 | 0.3 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 1271-8 | | 12-Mar-24 | Combined | 796 | 13 | 0.191 | 0.3 | Tree Trench | Streets | | | Cobbs-Darby |
| 50170 | 1272 | 1272-10 | East Park Greenways | 11-Feb-22 | Combined | 1444 | 6 | 0.25 | 0.5 | Bumpout, Tree Trench | Streets | $1,412,000.00 | | Schuylkill |
| | | 1272-9 | | 05-Apr-22 | Combined | 2749 | 6 | 0.529 | 0.9 | Bumpout, Tree Trench | Streets | | | Schuylkill |
| | 1273 | 1273-1 | | 13-Aug-20 | Combined | 1819 | 15 | 0.332 | 0.6 | Infiltration/Storage Trench, Rain Garden | Streets | | Philadelphia Department of Parks & Recreation,Fairmount Park Conservancy | Schuylkill |
| | | 1273-2 | | 13-Aug-20 | Combined | 1470 | 15 | 0.297 | 0.5 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill |
| | | 1273-3 | | 05-Apr-22 | Combined | 1840 | 15 | 0.4 | 0.6 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1273-4 | | 05-Apr-22 | Combined | 1370 | 15 | 0.258 | 0.4 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1273-5 | | 09-Feb-22 | Combined | 2179 | 15 | 0.487 | 0.7 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill |
| | | 1273-6 | | 20-Jan-22 | Combined | 4424 | 15 | 0.86 | 1.4 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill |
| | | 1273-7 | | 06-May-21 | Combined | 2493 | 15 | 0.494 | 0.8 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill |
| | | 1273-8 | | 11-Feb-22 | Combined | 6303 | 15 | 1.109 | 2.0 | Tree Trench | Streets | | | Schuylkill |
| 50171 | 1274 | 1274-1 | South Street Headhouse Square | 12-May-21 | Combined | 12779.63 | 0 | 2.212 | 3.8 | Infiltration/Storage Trench | Streets | $703,000.00 | Department of Public Property,Philadelphia Streets Department | Delaware |
| 50174 | 1279 | 1279-1 | Tioga Green Streets Phase I & II | 05-Aug-20 | Combined | 1127 | 29 | 0.236 | 0.5 | Tree Trench | Streets | $1,689,000.00 | | Delaware |
| | | 1279-10 | | 06-Oct-20 | Combined | 2402 | 29 | 0.416 | 0.8 | Tree Trench | Streets | | | Delaware |
| | | 1279-11 | | 05-Oct-20 | Combined | 1460 | 29 | 0.326 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1279-12 | | 05-Oct-20 | Combined | 923 | 29 | 0.172 | 0.3 | Tree Trench | Streets | | | Delaware |
| | | 1279-13 | | 27-Oct-20 | Combined | 1748 | 29 | 0.331 | 0.6 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1279-14 | | 06-Oct-20 | Combined | 1115 | 29 | 0.229 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1279-2 | | 05-Aug-20 | Combined | 883 | 29 | 0.126 | 0.3 | Tree Trench | Streets | | | Delaware |
| | | 1279-3 | | 05-Aug-20 | Combined | 1431 | 29 | 0.39 | 0.6 | Tree Trench | Streets | | | Delaware |
| | | 1279-4 | | 08-Oct-20 | Combined | 1087 | 29 | 0.238 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1279-5 | | 07-Aug-20 | Combined | 1732 | 29 | 0.247 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1279-6 | | 08-Jun-20 | Combined | 1987 | 29 | 0.318 | 0.6 | Tree Trench | Streets | | | Delaware |
| | | 1279-7 | | 05-Aug-20 | Combined | 2034 | 29 | 0.276 | 0.6 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1279-8 | | 07-Oct-20 | Combined | 2766 | 29 | 0.615 | 1.0 | Infiltration/Storage Trench, Tree Trench | Streets | | | Delaware |
| | | 1279-9 | | 07-Oct-20 | Combined | 1282 | 29 | 0.201 | 0.4 | Tree Trench | Streets | | | Delaware |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50175 | 1281 | 1281-1 | American Street Corridor Improvements | 30-Aug-18 | Combined | 3227 | 269 | 0.455 | 0.9 | Infiltration/Storage Trench, Rain Garden | Streets | $5,203,000.00 | | Delaware |
| | | 1281-10 | | 21-Apr-21 | Combined | 7223 | 269 | 0.837 | 1.7 | Tree Trench | Streets | | | Delaware |
| | | 1281-11 | | 21-Apr-21 | Combined | 4097 | 269 | 0.478 | 1.0 | Tree Trench | Streets | | | Delaware |
| | | 1281-12 | | 21-Apr-21 | Combined | 2272 | 269 | 0.279 | 0.6 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1281-13 | | 21-Apr-21 | Combined | 6198 | 269 | 0.826 | 1.7 | Swale | Streets | | | Delaware |
| | | 1281-14 | | 21-Apr-21 | Combined | 5196 | 269 | 0.465 | 0.9 | Swale | Streets | | | Delaware |
| | | 1281-15 | | 19-Nov-20 | Combined | 11715 | 269 | 1.597 | 3.2 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1281-16 | | 19-Nov-20 | Combined | 5431 | 269 | 0.681 | 1.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1281-17 | | 19-Nov-20 | Combined | 6771 | 269 | 0.876 | 1.8 | Swale | Streets | | | Delaware |
| | | 1281-18 | | 19-Nov-20 | Combined | 6057 | 269 | 0.799 | 1.6 | Swale | Streets | | | Delaware |
| | | 1281-19 | | 01-Dec-20 | Combined | 5570 | 269 | 0.745 | 1.5 | Swale | Streets | | | Delaware |
| | | 1281-2 | | 02-Apr-19 | Combined | 696 | 269 | 0.149 | 0.2 | Tree Trench | Streets | | | Delaware |
| | | 1281-20 | | 01-Dec-20 | Combined | 7304 | 269 | 1.003 | 2.0 | Infiltration/Storage Trench, Swale | Streets | | | Delaware |
| | | 1281-21 | | 01-Dec-20 | Combined | 4458 | 269 | 0.638 | 1.3 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1281-22 | | 01-Dec-20 | Combined | 4057 | 269 | 0.544 | 1.1 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1281-23 | | 01-Dec-20 | Combined | 4054 | 269 | 0.574 | 1.1 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1281-24 | | 01-Dec-20 | Combined | 3551 | 269 | 0.468 | 0.9 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1281-25 | | 11-Dec-20 | Combined | 6744 | 269 | 0.667 | 1.3 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1281-26 | | 21-May-21 | Combined | 3236 | 269 | 0.455 | 0.9 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1281-27 | | 11-Dec-20 | Combined | 5019 | 269 | 0.689 | 1.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1281-28 | | 11-Dec-20 | Combined | 3231 | 269 | 0.395 | 0.8 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1281-29 | | 11-Dec-20 | Combined | 4144 | 269 | 0.389 | 0.8 | Swale | Streets | | | Delaware |
| | | 1281-3 | | 28-Nov-18 | Combined | 1265 | 269 | 0.252 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1281-30 | | 11-Dec-20 | Combined | 6167 | 269 | 0.827 | 1.7 | Swale | Streets | | | Delaware |
| | | 1281-31 | | 11-Dec-20 | Combined | 8133 | 269 | 0.925 | 1.8 | Infiltration/Storage Trench, Swale | Streets | | | Delaware |
| | | 1281-32 | | 11-Dec-20 | Combined | 3879 | 269 | 0.534 | 1.1 | Infiltration/Storage Trench, Swale | Streets | | | Delaware |
| | | 1281-33 | | 20-Apr-21 | Combined | 2375 | 269 | 0.328 | 0.7 | Tree Trench | Streets | | | Delaware |
| | | 1281-34 | | 20-Apr-21 | Combined | 6408 | 269 | 0.866 | 1.7 | Tree Trench | Streets | | | Delaware |
| | | 1281-35 | | 12-Dec-20 | Combined | 3366 | 269 | 0.45 | 0.9 | Tree Trench | Streets | | | Delaware |
| | | 1281-36 | | 12-Dec-20 | Combined | 5900 | 269 | 0.793 | 1.6 | Bumpout, Tree Trench | Streets | | | Delaware |
| | | 1281-37 | | 25-May-21 | Combined | 7784 | 269 | 1.049 | 2.1 | Bumpout, Tree Trench | Streets | | | Delaware |
| | | 1281-38 | | 12-Dec-20 | Combined | 4466 | 269 | 0.711 | 1.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1281-39 | | 25-May-21 | Combined | 7947 | 269 | 1.041 | 2.1 | Infiltration/Storage Trench, Rain Garden | Streets | | | Delaware |
| | | 1281-4 | | 05-Apr-21 | Combined | 3145 | 269 | 0.453 | 0.9 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1281-40 | | 01-Dec-20 | Combined | 3191 | 269 | 0.428 | 0.9 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1281-41 | | 20-Apr-21 | Combined | 4035 | 269 | 0.534 | 1.1 | Tree Trench | Streets | | | Delaware |
| | | 1281-42 | | 20-Apr-21 | Combined | 3661 | 269 | 0.499 | 1.0 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1281-5 | | 12-Sep-18 | Combined | 1805 | 269 | 0.247 | 0.5 | Infiltration/Storage Trench, Rain Garden | Streets | | | Delaware |
| | | 1281-6 | | 05-Sep-18 | Combined | 1778 | 269 | 0.23 | 0.5 | Infiltration/Storage Trench, Rain Garden | Streets | | | Delaware |
| | | 1281-7 | | 28-Jun-19 | Combined | 5014 | 269 | 0.648 | 1.3 | Tree Trench | Streets | | | Delaware |
| | | 1281-9 | | 21-Apr-21 | Combined | 6479 | 269 | 0.915 | 1.8 | Tree Trench | Streets | | | Delaware |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50176 | 1283 | 1283-12 | Girard Estates Green Streets Improvements | 12-Jun-25 | Combined | 1371 | 50 | 0.241 | 0.4 | Tree Trench | Streets | $4,433,000.00 | | Schuylkill |
| | | 1283-13 | | 12-Jun-25 | Combined | 600 | 50 | 0.112 | 0.2 | Tree Trench | Streets | | | Schuylkill |
| | | 1283-14 | | 21-Mar-25 | Combined | 1789 | 50 | 0.285 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | | 1283-15 | | 21-Mar-25 | Combined | 2075 | 50 | 0.435 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | | 1283-16 | | 21-Mar-25 | Combined | 2051 | 50 | 0.316 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | | 1283-8 | | 20-Jun-25 | Combined | 1700 | 50 | 0.357 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | | 1283-9 | | 12-Jun-25 | Combined | 1019 | 50 | 0.165 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| 50177 | 1287 | 1287-1 | Wayne and Manheim Streets | 05-Nov-20 | Combined | 1603 | 21 | 0.219 | 0.4 | Tree Trench | Streets | $1,776,000.00 | | Schuylkill,TTF |
| | | 1287-10 | | 05-Nov-20 | Combined | 1128 | 21 | 0.153 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill,TTF |
| | | 1287-11 | | 03-Dec-20 | Combined | 1985 | 21 | 0.31 | 0.6 | Infiltration/Storage Trench | Streets | | | Schuylkill,TTF |
| | | 1287-12 | | 10-Jun-20 | Combined | 1084 | 21 | 0.186 | 0.3 | Tree Trench | Streets | | | Schuylkill,TTF |
| | | 1287-13 | | 03-Dec-20 | Combined | 1301 | 21 | 0.187 | 0.4 | Tree Trench | Streets | | | Schuylkill,TTF |
| | | 1287-2 | | 05-Nov-20 | Combined | 2486 | 21 | 0.342 | 0.7 | Tree Trench | Streets | | | Schuylkill,TTF |
| | | 1287-3 | | 05-Nov-20 | Combined | 1555 | 21 | 0.239 | 0.5 | Tree Trench | Streets | | | Schuylkill,TTF |
| | | 1287-4 | | 10-Jun-20 | Combined | 1998 | 21 | 0.287 | 0.6 | Tree Trench | Streets | | | Schuylkill,TTF |
| | | 1287-5 | | 10-Jun-20 | Combined | 2058 | 21 | 0.279 | 0.6 | Tree Trench | Streets | | | Schuylkill,TTF |
| | | 1287-6 | | 10-Jun-20 | Combined | 1525 | 21 | 0.243 | 0.5 | Tree Trench | Streets | | | Schuylkill,TTF |
| | | 1287-7 | | 05-Nov-20 | Combined | 1911 | 21 | 0.463 | 0.6 | Infiltration/Storage Trench | Streets | | | Schuylkill,TTF |
| | | 1287-8 | | 05-Nov-20 | Combined | 1687 | 21 | 0.46 | 0.5 | Infiltration/Storage Trench | Streets | | | Schuylkill,TTF |
| | | 1287-9 | | 10-Jun-20 | Combined | 868 | 21 | 0.225 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill,TTF |
| 50179 | 1288 | 1288-1 | Berks & Sedgley Greening | 05-Dec-18 | Combined | 1201 | 17 | 0.244 | 0.4 | Infiltration/Storage Trench, Planter | Streets | $1,795,000.00 | | Schuylkill |
| | | 1288-10 | | 09-Nov-18 | Combined | 2109 | 17 | 0.295 | 0.6 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1288-11 | | 29-Oct-18 | Combined | 1483 | 17 | 0.284 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | | 1288-2 | | 05-Dec-18 | Combined | 807 | 17 | 0.145 | 0.2 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1288-3 | | 20-Dec-18 | Combined | 862 | 17 | 0.203 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1288-4 | | 05-Dec-18 | Combined | 1347 | 17 | 0.268 | 0.5 | Infiltration/Storage Trench, Planter | Streets | | | Schuylkill |
| | | 1288-5 | | 14-Feb-19 | Combined | 5680 | 17 | 1.163 | 1.9 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill |
| | | 1288-6 | | 28-Feb-19 | Combined | 2328 | 17 | 0.718 | 0.8 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1288-7 | | 30-Oct-18 | Combined | 1260 | 17 | 0.236 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | | 1288-8 | | 25-Oct-18 | Combined | 2016 | 17 | 0.385 | 0.6 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1288-9 | | 25-Oct-18 | Combined | 1049 | 17 | 0.187 | 0.4 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| 50180 | 1285 * | 1285-1 | Saunders Park Streets Improvements Package | 16-Jul-24 | Combined | 2054 | 25 | 0.495 | 0.8 | Bumpout, Infiltration/Storage Trench | Streets | $1,586,000.00 | | Schuylkill |
| | | 1285-2 | | 16-Jul-24 | Combined | 1282 | 25 | 0.175 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1285-3 | | 16-Jul-24 | Combined | 737 | 25 | 0.133 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1285-4 | | 16-Jul-24 | Combined | 1654 | 25 | 0.274 | 0.5 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1285-5 | | 16-Jul-24 | Combined | 2381 | 25 | 0.648 | 0.8 | Tree Trench | Streets | | | Schuylkill |
| | | 1285-6 | | 16-Jul-24 | Combined | 943 | 25 | 0.217 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1285-7 | | 16-Jul-24 | Combined | 3104 | 25 | 0.451 | 0.9 | Tree Trench | Streets | | | Schuylkill |
| | | 1285-8 | | 16-Jul-24 | Combined | 1690 | 25 | 0.393 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| 50181 | 1290 | 1290-1 | 16th Police District Headquarters Improvements | 13-Jul-23 | Combined | 824 | 2 | 0.195 | 0.3 | Infiltration/Storage Trench | Streets | $1,624,000.00 | | Schuylkill |
| | | 1290-2 | | 13-Jul-23 | Combined | 469 | 2 | 0.124 | 0.2 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1290-3 | | 13-Jul-23 | Combined | 717 | 2 | 0.198 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1290-4 | | 13-Jul-23 | Combined | 409 | 2 | 0.103 | 0.2 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | 1291 | 1291-1 | | 13-Jul-23 | Combined | 1430 | 0 | 0.269 | 0.5 | Infiltration/Storage Trench, Planter | Facilities | | | Schuylkill |
| | | 1291-2 | | 13-Jul-23 | Combined | 12358 | 0 | 1.823 | 3.6 | Infiltration/Storage Trench | Parking | | | Schuylkill |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50182 | 1296 | 1296-1 | Feltonville Plaza | 08-Apr-22 | Combined | 883 | 11 | 0.187 | 0.3 | Infiltration/Storage Trench, Rain Garden | Streets | $1,295,000.00 | | TTF |
| | | 1296-10 | | 17-Mar-22 | Combined | 2082 | 11 | 0.288 | 0.6 | Tree Trench | Streets | | | TTF |
| | | 1296-11 | | 18-Mar-22 | Combined | 2204 | 11 | 0.466 | 0.7 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1296-2 | | 24-Mar-22 | Combined | 1389 | 11 | 0.345 | 0.7 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1296-5 | | 04-Apr-22 | Combined | 1209 | 11 | 0.276 | 0.4 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1296-6 | | 20-Apr-22 | Combined | 3251 | 11 | 0.49 | 1.0 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 1296-7 | | 05-Apr-22 | Combined | 3396 | 11 | 0.465 | 0.9 | Bumpout, Tree Trench | Streets | | | TTF |
| | | 1296-8 | | 24-Mar-22 | Combined | 1847 | 11 | 0.354 | 0.7 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 1296-9 | | 18-Mar-22 | Combined | 1082 | 11 | 0.245 | 0.3 | Infiltration/Storage Trench | Streets | | | TTF |
| 50184 | 1299 | 1299-1 | Port Richmond Green Streets Improvements | 07-Oct-20 | Combined | 1724 | 35 | 0.341 | 0.5 | Tree Trench | Streets | $1,653,000.00 | | Delaware,TTF |
| | | 1299-10 | | 07-Oct-20 | Combined | 1799 | 35 | 0.26 | 0.5 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1299-11 | | 07-Oct-20 | Combined | 2955 | 35 | 0.456 | 0.9 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1299-12 | | 07-Oct-20 | Combined | 1597 | 35 | 0.221 | 0.4 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1299-2 | | 07-Oct-20 | Combined | 1775 | 35 | 0.264 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1299-3 | | 07-Oct-20 | Combined | 1034 | 35 | 0.196 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1299-4 | | 07-Oct-20 | Combined | 1262 | 35 | 0.245 | 0.4 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1299-5 | | 07-Oct-20 | Combined | 2459 | 35 | 0.416 | 0.8 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1299-6 | | 07-Oct-20 | Combined | 2077 | 35 | 0.352 | 0.6 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1299-7 | | 07-Oct-20 | Combined | 2187 | 35 | 0.309 | 0.6 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1299-8 | | 07-Oct-20 | Combined | 2321 | 35 | 0.319 | 0.6 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1299-9 | | 07-Oct-20 | Combined | 1420 | 35 | 0.274 | 0.4 | Tree Trench | Streets | | | Delaware,TTF |
| 50186 | 1301 | 1301-1 | Jefferson Street Green Improvements | 05-Mar-24 | Combined | 1505 | 20 | 0.259 | 0.5 | Tree Trench | Streets | $2,408,000.00 | | Cobbs-Darby,Schuylkill |
| | | 1301-10 | | 05-Mar-24 | Combined | 4774 | 20 | 0.892 | 1.5 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1301-11 | | 04-Mar-24 | Combined | 3783 | 20 | 0.908 | 1.3 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1301-2 | | 07-Mar-24 | Combined | 2694 | 20 | 0.686 | 1.0 | Infiltration/Storage Trench, Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1301-3 | | 01-Mar-24 | Combined | 1624 | 20 | 0.396 | 0.5 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1301-4 | | 29-Feb-24 | Combined | 1787 | 20 | 0.324 | 0.6 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1301-5 | | 07-Mar-24 | Combined | 1991 | 20 | 0.405 | 0.8 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1301-6 | | 29-Feb-24 | Combined | 751 | 20 | 0.209 | 0.3 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1301-7 | | 29-Feb-24 | Combined | 1072 | 20 | 0.181 | 0.4 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1301-8 | | 07-Mar-24 | Combined | 4122 | 20 | 1.052 | 1.4 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1301-9 | | 07-Mar-24 | Combined | 4326 | 20 | 1.054 | 1.4 | Infiltration/Storage Trench, Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| 50187 | 1302 | 1302-1 | Palmer Park | 09-Jan-20 | Combined | 2581 | 2 | 0.465 | 0.9 | Infiltration/Storage Trench | Streets | $561,000.00 | Philadelphia Department of Parks & Recreation | Delaware |
| | 1303 | 1303-1 | | 09-Jan-20 | Combined | 1721 | 3 | 0.307 | 0.6 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| | | 1303-2 | | 09-Jan-20 | Combined | 629 | 3 | 0.159 | 0.2 | Tree Trench | Streets | | | Delaware |
| 50189 | 1307 | 1307-2 | Newbold Green Street Improvements | 04-Jun-20 | Combined | 2805 | 17 | 0.393 | 0.8 | Tree Trench | Streets | $969,000.00 | | Schuylkill |
| | | 1307-3 | | 16-Jun-20 | Combined | 1351 | 17 | 0.181 | 0.4 | Tree Trench | Streets | | | Schuylkill |
| | | 1307-4 | | 02-Jul-20 | Combined | 1384 | 17 | 0.301 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | | 1307-5 | | 31-Jul-20 | Combined | 1156 | 17 | 0.164 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1307-6 | | 18-Aug-20 | Combined | 1156 | 17 | 0.263 | 0.4 | Tree Trench | Streets | | | Schuylkill |
| | | 1307-7 | | 25-Aug-20 | Combined | 2195 | 17 | 0.326 | 0.7 | Tree Trench | Streets | | | Schuylkill |
| | | 1307-8 | | 08-Sep-20 | Combined | 1594 | 17 | 0.274 | 0.5 | Tree Trench | Streets | | | Schuylkill |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50190 | 1308 | 1308-1 | Clayborn & Lewis Streets GSI | 12-Oct-20 | Combined | 6028 | 4 | 1.14 | 2.3 | Tree Trench | Streets | $1,201,000.00 | | Schuylkill |
| | | 1308-3 | | 10-Feb-22 | Combined | 3140 | 4 | 0.484 | 1.0 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1308-4 | | 10-Feb-22 | Combined | 6376 | 4 | 0.868 | 1.7 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| 50192 | 1311 | 1311-1 | Heitzman Playground | 11-Mar-23 | Combined | 37149 | 3 | 3.835 | 7.7 | Infiltration/Storage Trench | Open Space | $2,726,000.00 | Philadelphia Department of Parks & Recreation | Delaware |
| | | 1311-2 | | 11-Mar-23 | Combined | 1290 | 3 | 0.212 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1311-3 | | 11-Mar-23 | Combined | 1211 | 3 | 0.232 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| 50194 | 1315 | 1315-1 | East Parkside Streets | 26-Apr-22 | Combined | 2898.73 | 18 | 0.44 | 0.9 | Bumpout, Tree Trench | Streets | $1,212,000.00 | | Schuylkill |
| | | 1315-2 | | 29-Mar-22 | Combined | 1138.63 | 18 | 0.25 | 0.4 | Tree Trench | Streets | | | Schuylkill |
| | | 1315-3 | | 26-Apr-22 | Combined | 2534 | 18 | 0.369 | 0.7 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1315-4 | | 31-Mar-22 | Combined | 1148.18 | 18 | 0.166 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1315-5 | | 26-Apr-22 | Combined | 1842.04 | 18 | 0.307 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | | 1315-6 | | 07-Jun-22 | Combined | 5346.79 | 18 | 1.197 | 2.4 | Tree Trench | Streets | | | Schuylkill |
| | | 1315-7 | | 27-Apr-22 | Combined | 1462.98 | 18 | 0.396 | 0.5 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| 50195 | 290 | 290-1 | Windrim Avenue Green Street | 06-Apr-19 | Combined | 3830 | 0 | 0.599 | 1.2 | Bumpout, Infiltration/Storage Trench | Streets | $949,000.00 | Philadelphia Planning Commission,Southeastern Transportation Authority,Nicetown Community Development Corporation | TTF |
| | | 290-2 | | 06-Apr-19 | Combined | 1839 | 0 | 0.309 | 0.6 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 290-3 | | 06-Apr-19 | Combined | 4782 | 0 | 0.587 | 1.2 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| 50196 | 1318 | 1318-1 | Happy Hollow Park | 28-Oct-24 | Combined | 1206 | 20 | 0.167 | 0.3 | Infiltration/Storage Trench | Streets | $5,432,000.00 | | Schuylkill,TTF |
| | | 1318-10 | | 09-Aug-24 | Combined | 1463 | 20 | 0.364 | 0.5 | Tree Trench | Streets | | | Schuylkill,TTF |
| | | 1318-11 | | 11-Sep-24 | Combined | 1585 | 20 | 0.358 | 0.5 | Tree Trench | Streets | | | Schuylkill,TTF |
| | | 1318-12 | | 03-Jun-24 | Combined | 1652 | 20 | 0.392 | 0.6 | Infiltration/Storage Trench | Streets | | | Schuylkill,TTF |
| | | 1318-13 | | 16-Jun-24 | Combined | 2265 | 20 | 0.523 | 0.8 | Infiltration/Storage Trench | Streets | | | Schuylkill,TTF |
| | | 1318-14 | | 22-Jul-24 | Combined | 1952 | 20 | 0.422 | 0.6 | Infiltration/Storage Trench | Streets | | | Schuylkill,TTF |
| | | 1318-2 | | 24-Oct-24 | Combined | 1028 | 20 | 0.293 | 0.4 | Infiltration/Storage Trench | Streets | | | Schuylkill,TTF |
| | | 1318-3 | | 08-Nov-24 | Combined | 1216 | 20 | 0.28 | 0.4 | Tree Trench | Streets | | | Schuylkill,TTF |
| | | 1318-4 | | 11-Oct-24 | Combined | 920 | 20 | 0.248 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill,TTF |
| | | 1318-5 | | 01-Oct-24 | Combined | 1861 | 20 | 0.451 | 0.6 | Tree Trench | Streets | | | Schuylkill,TTF |
| | | 1318-6 | | 13-Sep-24 | Combined | 1133 | 20 | 0.334 | 0.4 | Infiltration/Storage Trench | Streets | | | Schuylkill,TTF |
| | | 1318-7 | | 17-Sep-24 | Combined | 2518 | 20 | 0.526 | 0.8 | Tree Trench | Streets | | | Schuylkill,TTF |
| | | 1318-8 | | 30-Aug-24 | Combined | 1373 | 20 | 0.259 | 0.4 | Tree Trench | Streets | | | Schuylkill,TTF |
| | | 1318-9 | | 11-Jul-24 | Combined | 1131 | 20 | 0.322 | 0.4 | Tree Trench | Streets | | | Schuylkill,TTF |
| | 1319 | 1319-1 | | 07-Feb-25 | Combined | 6095 | 25 | 1.052 | 1.9 | Infiltration/Storage Trench, Rain Garden | Streets | | Philadelphia Department of Parks & Recreation | Schuylkill,TTF |
| | | 1319-2 | | 16-Jan-25 | Combined | 2989 | 25 | 0.757 | 1.2 | Tree Trench | Streets | | | Schuylkill,TTF |
| | | 1319-3 | | 26-Sep-24 | Combined | 2360 | 25 | 0.238 | 0.5 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill,TTF |
| | | 1319-4 | | 12-Sep-24 | Combined | 4104 | 25 | 0.876 | 1.3 | Tree Trench | Streets | | | Schuylkill,TTF |
| 50199 | 1328 | 1328-11 | 41st & Lancaster 2 Streets Improvement Package | 15-Jan-25 | Combined | 2394 | 40 | 0.345 | 0.7 | Tree Trench | Streets | $2,347,000.00 | | Schuylkill |
| | | 1328-2 | | 15-Jan-25 | Combined | 1284 | 40 | 0.256 | 0.4 | Tree Trench | Streets | | | Schuylkill |
| | | 1328-7 | | 15-Jan-25 | Combined | 2133 | 40 | 0.424 | 0.6 | Tree Trench | Streets | | | Schuylkill |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50200 | 1329 | 1329-1 | 41st & Lancaster 3 Streets Improvement Package | 31-Oct-24 | Combined | 1362 | 25 | 0.192 | 0.4 | Tree Trench | Streets | $1,945,000.00 | | Schuylkill |
| | | 1329-2 | | 01-Apr-25 | Combined | 1628 | 25 | 0.439 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | | 1329-3 | | 31-Oct-24 | Combined | 1675 | 25 | 0.324 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | | 1329-4 | | 31-Oct-24 | Combined | 1838 | 25 | 0.34 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | | 1329-5 | | 04-Apr-25 | Combined | 4475 | 25 | 0.62 | 1.2 | Bumpout, Tree Trench | Streets | | | Schuylkill |
| | | 1329-6 | | 01-Apr-25 | Combined | 2340 | 25 | 0.42 | 0.7 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1329-7 | | 02-Apr-25 | Combined | 823 | 25 | 0.225 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| 50201 | 1335 | 1335-1 | 229 E Logan Street Lot | 16-Aug-23 | Combined | 15131 | 13 | 3.114 | 6.2 | Infiltration/Storage Trench, Rain Garden | Vacant Land | $1,568,000.00 | | TTF |
| 50202 | 1334 | 1334-1 | Bringhurst Park Package | 04-May-23 | Combined | 976 | 4 | 0.311 | 0.3 | Infiltration/Storage Trench | Streets | $960,000.00 | | TTF |
| | | 1334-2 | | 04-May-23 | Combined | 1028 | 4 | 0.178 | 0.3 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1334-3 | | 04-May-23 | Combined | 1624 | 4 | 0.331 | 0.5 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1334-4 | | 04-May-23 | Combined | 2585 | 4 | 0.539 | 0.8 | Rain Garden, Tree Trench | Open Space | | | TTF |
| 50203 | 1336 * | 1336-1 | Penrose Avenue | 06-Sep-23 | Combined | 1322 | 12 | 0.21 | 0.4 | Infiltration/Storage Trench | Streets | $1,463,000.00 | | Schuylkill |
| | | 1336-2 | | 06-Sep-22 | Combined | 5362 | 12 | 0.951 | 1.7 | Infiltration/Storage Trench, Swale | Streets | | | Schuylkill |
| | | 1336-3 | | 07-Nov-23 | Combined | 1935 | 12 | 0.31 | 0.6 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill |
| | | 1336-4 | | 06-Sep-23 | Combined | 2519 | 12 | 0.397 | 0.8 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1336-5 | | 04-May-23 | Combined | 3247 | 12 | 0.447 | 0.9 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1336-6 | | 06-Sep-22 | Combined | 5689 | 12 | 0.853 | 1.7 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1336-7 | | 04-May-23 | Combined | 4682 | 12 | 0.799 | 1.5 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| 50204 | 1339 | 1339-1 | Yorktown Courtyards Improvement Package | 12-Jan-24 | Combined | 2386 | 14 | 0.393 | 0.7 | Tree Trench | Streets | $1,491,000.00 | | Delaware |
| | | 1339-2 | | 12-Jan-24 | Combined | 2223 | 14 | 0.532 | 0.7 | Infiltration/Storage Trench, Rain Garden | Streets | | | Delaware |
| | | 1339-3 | | 12-Jan-24 | Combined | 2186.54 | 14 | 0.391 | 0.7 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| | | 1339-4 | | 17-Nov-23 | Combined | 2288.57 | 14 | 0.507 | 0.7 | Infiltration/Storage Trench, Rain Garden | Streets | | | Delaware |
| | | 1339-5 | | 17-Nov-23 | Combined | 2307 | 14 | 0.323 | 0.6 | Tree Trench | Streets | | | Delaware |
| | | 1339-7 | | 06-Nov-23 | Combined | 1268 | 14 | 0.243 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1339-8 | | 06-Nov-23 | Combined | 1780 | 14 | 0.419 | 0.6 | Tree Trench | Streets | | | Delaware |
| 50205 | 1341 | 1341-1 | Mantua Greenway Neighborhood Connections | 07-Sep-23 | Combined | 742 | 25 | 0.201 | 0.3 | Infiltration/Storage Trench | Streets | $1,954,000.00 | | Schuylkill |
| | | 1341-10 | | 07-Sep-23 | Combined | 1450 | 25 | 0.389 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | | 1341-11 | | 07-Sep-23 | Combined | 1790 | 25 | 0.491 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | | 1341-2 | | 07-Sep-23 | Combined | 1767 | 25 | 0.449 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | | 1341-3 | | 07-Jul-23 | Combined | 1424 | 25 | 0.268 | 0.5 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1341-4 | | 07-Sep-23 | Combined | 4702 | 25 | 1.224 | 1.4 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill |
| | | 1341-5 | | 07-Jul-23 | Combined | 1505 | 25 | 0.422 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | | 1341-6 | | 08-Sep-23 | Combined | 1143 | 25 | 0.312 | 0.4 | Tree Trench | Streets | | | Schuylkill |
| | | 1341-7 | | 07-Jul-23 | Combined | 1251 | 25 | 0.305 | 0.4 | Tree Trench | Streets | | | Schuylkill |
| | | 1341-8 | | 07-Jul-23 | Combined | 1710 | 25 | 0.319 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | | 1341-9 | | 21-Sep-23 | Combined | 1090 | 25 | 0.192 | 0.4 | Tree Trench | Streets | | | Schuylkill |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50206 | 1343 | 1343-1 | Drexel University Campus Green Streets Package | 15-Aug-24 | Combined | 1932.7 | 34 | 0.381 | 0.8 | Tree Trench | Streets | $2,462,000.00 | Drexel University | Schuylkill |
| | | 1343-2 | | 15-Aug-24 | Combined | 1804.9 | 34 | 0.358 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | | 1343-3 | | 15-Aug-24 | Combined | 2346.6 | 34 | 0.368 | 0.7 | Tree Trench | Streets | | | Schuylkill |
| | | 1343-4 | | 15-Aug-24 | Combined | 2516.3 | 34 | 0.476 | 0.8 | Tree Trench | Streets | | | Schuylkill |
| | | 1343-5 | | 15-Aug-24 | Combined | 1605 | 34 | 0.362 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | | 1343-6 | | 15-Aug-24 | Combined | 1496.8 | 34 | 0.277 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | | 1343-8 | | 15-Aug-24 | Combined | 2479 | 34 | 0.514 | 1.0 | Tree Trench | Streets | | | Schuylkill |
| 50207 | 1342 | 1342-1 | Snyder Avenue Greening Improvements | 22-May-23 | Combined | 1834 | 16 | 0.311 | 0.6 | Tree Trench | Streets | $1,819,000.00 | | Schuylkill |
| | | 1342-10 | | 30-Oct-23 | Combined | 708 | 16 | 0.182 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1342-11 | | 30-Oct-23 | Combined | 889 | 16 | 0.207 | 0.3 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1342-12 | | 30-Oct-23 | Combined | 931 | 16 | 0.187 | 0.4 | Tree Trench | Streets | | | Schuylkill |
| | | 1342-2 | | 22-May-23 | Combined | 1130 | 16 | 0.209 | 0.4 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1342-3 | | 30-Oct-23 | Combined | 1319 | 16 | 0.295 | 0.4 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1342-4 | | 06-Nov-23 | Combined | 1342 | 16 | 0.428 | 0.4 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1342-5 | | 31-May-24 | Combined | 1173 | 16 | 0.174 | 0.3 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1342-6 | | 30-Oct-23 | Combined | 756 | 16 | 0.17 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1342-7 | | 30-Oct-23 | Combined | 606 | 16 | 0.167 | 0.2 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1342-8 | | 30-Oct-23 | Combined | 912 | 16 | 0.279 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1342-9 | | 31-May-24 | Combined | 1287 | 16 | 0.328 | 0.4 | Tree Trench | Streets | | | Schuylkill |
| 50210 | 1345 * | 1345-1 | 24th Street Greening Improvements | 27-Nov-23 | Combined | 2876 | 55 | 0.435 | 0.9 | Infiltration/Storage Trench, Rain Garden | Streets | $2,560,000.00 | | Schuylkill |
| | | 1345-2 | | 27-Nov-23 | Combined | 15450 | 55 | 1.942 | 3.9 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill |
| | | 1345-3 | | 27-Nov-23 | Combined | 3559 | 55 | 0.442 | 0.9 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill |
| | | 1345-4 | | 27-Nov-23 | Combined | 2105 | 55 | 0.261 | 0.5 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill |
| | | 1345-5 | | 27-Nov-23 | Combined | 9013 | 55 | 1.346 | 2.7 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill |
| | | 1345-6 | | 27-Nov-23 | Combined | 3372 | 55 | 0.433 | 0.9 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill |
| | | 1345-7 | | 27-Nov-23 | Combined | 5471 | 55 | 0.678 | 1.4 | Infiltration/Storage Trench, Rain Garden | Streets | | | Schuylkill |
| 50211 | 1347 | 1347-1 | Mifflin Square | 01-Aug-22 | Combined | 4183 | 13 | 0.641 | 1.3 | Tree Trench | Open Space | $1,246,000.00 | | Delaware |
| | | 1347-2 | | 23-May-22 | Combined | 6415 | 13 | 0.89 | 1.8 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Delaware |
| | | 1347-3 | | 23-May-22 | Combined | 3780 | 13 | 0.677 | 1.2 | Tree Trench | Open Space | | | Delaware |
| | | 1347-4 | | 23-May-22 | Combined | 2883 | 13 | 0.407 | 0.8 | Tree Trench | Open Space | | | Delaware |
| 50212 | 1348 | 1348-1 | Fairmount Ave Greening Improvements | 19-May-20 | Combined | 2173 | 13 | 0.465 | 0.7 | Infiltration/Storage Trench | Streets | $1,185,000.00 | | Delaware,Schuylkill |
| | | 1348-2 | | 04-Jun-20 | Combined | 1829 | 13 | 0.31 | 0.6 | Tree Trench | Streets | | | Delaware,Schuylkill |
| | | 1348-3 | | 25-Jun-20 | Combined | 1264 | 13 | 0.192 | 0.4 | Tree Trench | Streets | | | Delaware,Schuylkill |
| | | 1348-5 | | 17-Jun-20 | Combined | 2310 | 13 | 0.363 | 0.7 | Tree Trench | Streets | | | Delaware,Schuylkill |
| | | 1348-8 | | 07-Aug-20 | Combined | 1486 | 13 | 0.198 | 0.4 | Tree Trench | Streets | | | Delaware,Schuylkill |
| | | 1348-9 | | 07-Aug-20 | Combined | 1710 | 13 | 0.303 | 0.5 | Tree Trench | Streets | | | Delaware,Schuylkill |
| 50213 | 1351 * | 1351-1 | Five Loaves Two Fish Streets Improvements | 17-Apr-24 | Combined | 1177 | 20 | 0.316 | 0.4 | Tree Trench | Streets | $1,102,000.00 | | Schuylkill |
| | | 1351-2 | | 17-Apr-24 | Combined | 1600 | 20 | 0.291 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | | 1351-3 | | 17-Apr-24 | Combined | 1292 | 20 | 0.178 | 0.4 | Tree Trench | Streets | | | Schuylkill |
| | | 1351-4 | | 17-Apr-24 | Combined | 1042 | 20 | 0.184 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1351-5 | | 17-Apr-24 | Combined | 1159 | 20 | 0.258 | 0.4 | Tree Trench | Streets | | | Schuylkill |
| | | 1351-6 | | 17-Apr-24 | Combined | 1196 | 20 | 0.304 | 0.4 | Tree Trench | Streets | | | Schuylkill |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50214 | 1353 | 1353-1 | State & Rhawn Sidepath | 15-Oct-24 | Combined | 2824 | 5 | 0.489 | 0.9 | Tree Trench | Streets | $274,000.00 | Philadelphia Streets Department,Philadelphia Department of Parks & Recreation | Pennypack |
| 50215 | 1354 * | 1354-1 | Fairmount Neighborhood Bumpouts | 06-Apr-23 | Combined | 1421 | 27 | 0.222 | 0.4 | Bumpout, Infiltration/Storage Trench | Streets | $1,750,000.00 | | Schuylkill |
| | | 1354-2 | | 16-Feb-23 | Combined | 869 | 27 | 0.138 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1354-3 | | 06-Apr-23 | Combined | 3099 | 27 | 0.574 | 1.0 | Tree Trench | Streets | | | Schuylkill |
| | | 1354-4 | | 06-Apr-23 | Combined | 4131 | 27 | 0.781 | 1.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1354-5 | | 06-Apr-23 | Combined | 3078 | 27 | 0.853 | 1.0 | Bumpout, Tree Trench | Streets | | | Schuylkill |
| | | 1354-6 | | 06-Apr-23 | Combined | 1713 | 27 | 0.466 | 0.8 | Tree Trench | Streets | | | Schuylkill |
| | | 1354-7 | | 16-Feb-23 | Combined | 948 | 27 | 0.164 | 0.3 | Tree Trench | Streets | | | Schuylkill |
| 50217 | 1359 | 1359-1 | Lawncrest Streets North | 26-Oct-20 | Combined | 1855 | 10 | 0.499 | 0.6 | Tree Trench | Streets | $1,699,000.00 | | Delaware,TTF |
| | | 1359-10 | | 27-Jan-21 | Combined | 584 | 10 | 0.095 | 0.2 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1359-11 | | 19-Apr-21 | Combined | 1421 | 10 | 0.346 | 0.5 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1359-12 | | 04-Nov-20 | Combined | 1504 | 10 | 0.333 | 0.5 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1359-13 | | 11-Nov-20 | Combined | 1743 | 10 | 0.405 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1359-14 | | 11-Nov-20 | Combined | 1368 | 10 | 0.365 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1359-2 | | 26-Oct-20 | Combined | 1062 | 10 | 0.244 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1359-3 | | 26-Oct-20 | Combined | 1053 | 10 | 0.232 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1359-5 | | 17-Nov-20 | Combined | 1184 | 10 | 0.28 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1359-6 | | 09-Nov-20 | Combined | 915 | 10 | 0.225 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1359-7 | | 19-Apr-21 | Combined | 2673 | 10 | 0.673 | 0.8 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1359-8 | | 07-Jan-21 | Combined | 833 | 10 | 0.124 | 0.2 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1359-9 | | 07-Jan-21 | Combined | 1652 | 10 | 0.305 | 0.5 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| 50218 | 1357 | 1357-1 | Arch St West Streets Improvements | 11-Jun-24 | Combined | 1826 | 33 | 0.488 | 0.6 | Tree Trench | Streets | $2,596,000.00 | | Cobbs-Darby |
| | | 1357-10 | | 11-Jun-24 | Combined | 1351 | 33 | 0.355 | 0.4 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 1357-11 | | 11-Jun-24 | Combined | 1765 | 33 | 0.416 | 0.6 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 1357-2 | | 11-Jun-24 | Combined | 1719 | 33 | 0.56 | 0.6 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 1357-3 | | 11-Jun-24 | Combined | 2112 | 33 | 0.592 | 0.7 | Bumpout, Tree Trench | Streets | | | Cobbs-Darby |
| | | 1357-4 | | 11-Jun-24 | Combined | 2453 | 33 | 0.514 | 0.8 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 1357-5 | | 11-Jun-24 | Combined | 1547 | 33 | 0.341 | 0.5 | Bumpout, Tree Trench | Streets | | | Cobbs-Darby |
| | | 1357-6 | | 11-Jun-24 | Combined | 3410 | 33 | 0.755 | 1.0 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 1357-7 | | 11-Jun-24 | Combined | 2059 | 33 | 0.49 | 0.6 | Bumpout, Tree Trench | Streets | | | Cobbs-Darby |
| | | 1357-8 | | 11-Jun-24 | Combined | 3437 | 33 | 0.873 | 1.1 | Bumpout, Tree Trench | Streets | | | Cobbs-Darby |
| | | 1357-9 | | 11-Jun-24 | Combined | 3856 | 33 | 0.725 | 1.2 | Bumpout, Tree Trench | Streets | | | Cobbs-Darby |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50219 | 1360 * | 1360-1 | Shunk Street Greening Improvements | 22-Mar-24 | Combined | 2841 | 8 | 0.384 | 0.8 | Bumpout, Infiltration/Storage Trench | Streets | $2,776,000.00 | | Delaware |
| | | 1360-10 | | 02-Feb-24 | Combined | 1965 | 8 | 0.439 | 0.6 | Bumpout, Tree Trench | Streets | | | Delaware |
| | | 1360-11 | | 24-Nov-23 | Combined | 1506 | 8 | 0.239 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1360-12 | | 24-Nov-23 | Combined | 1584 | 8 | 0.347 | 0.7 | Bumpout, Tree Trench | Streets | | | Delaware |
| | | 1360-2 | | 02-Feb-24 | Combined | 1350 | 8 | 0.229 | 0.4 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1360-3 | | 29-Dec-23 | Combined | 3029 | 8 | 0.394 | 0.8 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1360-4 | | 03-Apr-24 | Combined | 2201 | 8 | 0.424 | 0.7 | Bumpout, Tree Trench | Streets | | | Delaware |
| | | 1360-5 | | 20-Dec-23 | Combined | 1297 | 8 | 0.225 | 0.4 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1360-6 | | 20-Dec-23 | Combined | 1437 | 8 | 0.261 | 0.5 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1360-7 | | 30-Nov-23 | Combined | 1640 | 8 | 0.314 | 0.6 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1360-8 | | 22-Mar-24 | Combined | 1110 | 8 | 0.224 | 0.4 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1360-9 | | 22-Mar-24 | Combined | 1998 | 8 | 0.393 | 0.8 | Bumpout, Tree Trench | Streets | | | Delaware |
| 50221 | 1363 | 1363-1 | Lawndale Streets East | 17-Nov-23 | Combined | 2614 | 14 | 0.514 | 0.8 | Infiltration/Storage Trench | Streets | $2,095,000.00 | | Delaware,TTF |
| | | 1363-10 | | 17-Nov-23 | Combined | 935 | 14 | 0.17 | 0.3 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1363-2 | | 17-Nov-23 | Combined | 1837 | 14 | 0.326 | 0.6 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1363-3 | | 17-Nov-23 | Combined | 2171 | 14 | 0.35 | 0.7 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1363-4 | | 17-Nov-23 | Combined | 3711 | 14 | 0.629 | 1.1 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1363-5 | | 17-Nov-23 | Combined | 2173 | 14 | 0.397 | 0.7 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1363-6 | | 17-Nov-23 | Combined | 918 | 14 | 0.17 | 0.3 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1363-8 | | 17-Nov-23 | Combined | 2005 | 14 | 0.364 | 0.6 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1363-9 | | 17-Nov-23 | Combined | 4481 | 14 | 1.044 | 1.5 | Bumpout, Tree Trench | Streets | | | Delaware,TTF |
| 50222 | 1374 | 1374-1 | 48th & Warrington Green Streets Improvements | 03-Oct-23 | Combined | 2008 | 11 | 0.508 | 0.6 | Tree Trench | Streets | $1,029,000.00 | | Cobbs-Darby,Schuylkill |
| | | 1374-2 | | 16-Oct-23 | Combined | 1670 | 11 | 0.363 | 0.6 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1374-3 | | 06-Dec-23 | Combined | 1404 | 11 | 0.304 | 0.5 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1374-4 | | 14-Nov-23 | Combined | 2499 | 11 | 0.587 | 0.8 | Infiltration/Storage Trench, Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1374-5 | | 13-Nov-23 | Combined | 907 | 11 | 0.15 | 0.3 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby,Schuylkill |
| 50226 | 1382 | 1382-1 | Tabor Ave | 15-May-24 | Combined | 1661 | 75 | 0.416 | 0.6 | Infiltration/Storage Trench | Streets | $3,116,000.00 | | Delaware,TTF |
| | | 1382-11 | | 15-May-24 | Combined | 3218 | 75 | 0.723 | 1.4 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1382-12 | | 15-May-24 | Combined | 3052 | 75 | 0.648 | 1.3 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1382-13 | | 15-May-24 | Combined | 8515 | 75 | 1.724 | 3.4 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1382-14 | | 15-May-24 | Combined | 2599 | 75 | 0.568 | 1.1 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1382-15 | | 15-May-24 | Combined | 5319 | 75 | 0.997 | 1.7 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1382-16 | | 15-May-24 | Combined | 7134 | 75 | 1.286 | 2.5 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1382-17 | | 15-May-24 | Combined | 4339 | 75 | 0.978 | 1.4 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1382-18 | | 15-May-24 | Combined | 2769 | 75 | 0.505 | 0.9 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1382-19 | | 17-Apr-24 | Combined | 2524 | 75 | 0.436 | 0.8 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1382-2 | | 15-May-24 | Combined | 2398 | 75 | 0.47 | 0.9 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1382-3 | | 15-May-24 | Combined | 1716 | 75 | 0.35 | 0.7 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1382-5 | | 15-May-24 | Combined | 3023 | 75 | 0.7 | 1.4 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1382-7 | | 15-May-24 | Combined | 2590 | 75 | 0.47 | 0.9 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1382-9 | | 15-May-24 | Combined | 3220 | 75 | 0.713 | 1.4 | Tree Trench | Streets | | | Delaware,TTF |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50229 | 1383 | 1383-1 | Columbia Field | 11-Dec-20 | Combined | 10064 | 12 | 1.415 | 2.8 | Infiltration/Storage Trench, Rain Garden | Open Space | $577,000.00 | | Delaware |
| 50232 | 1387 | 1387-1 | Waterloo Playground | 10-Nov-21 | Combined | 2550 | 13 | 0.408 | 0.7 | Tree Trench | Open Space | $320,000.00 | Department of Public Property | Delaware |
| | | 1387-2 | | 10-Nov-21 | Combined | 2096 | 13 | 0.495 | 0.9 | Infiltration/Storage Trench, Rain Garden | Open Space | | | Delaware |
| 50233 | 1389 | 1389-1 | Morris Park Neighborhood Streets 1 | 24-Oct-24 | Combined | 1650 | 7 | 0.353 | 0.5 | Infiltration/Storage Trench, Rain Garden, Swale | Streets | $2,423,000.00 | | Cobbs-Darby |
| | 1390 | 1390-2 | | 24-Oct-24 | Combined | 1010 | 13 | 0.269 | 0.4 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 1390-3 | | 24-Oct-24 | Combined | 1471 | 13 | 0.214 | 0.4 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 1390-4 | | 24-Oct-24 | Combined | 1705 | 13 | 0.441 | 0.5 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 1390-5 | | 24-Oct-24 | Combined | 847 | 13 | 0.197 | 0.3 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 1390-6 | | 24-Oct-24 | Combined | 1138 | 13 | 0.227 | 0.4 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 1390-7 | | 24-Oct-24 | Combined | 4232 | 13 | 1.001 | 1.3 | Bumpout, Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 1390-8 | | 24-Oct-24 | Combined | 2921 | 13 | 0.536 | 0.9 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| 50234 | 1388 * | 1388-1 | I Street Green Corridor | 06-Sep-23 | Combined | 1129 | 19 | 0.164 | 0.3 | Tree Trench | Streets | $1,274,000.00 | Impact Services CDC | Delaware |
| | | 1388-2 | | 30-Jul-24 | Combined | 2285 | 19 | 0.593 | 0.8 | Tree Trench | Streets | | | Delaware |
| | | 1388-3 | | 01-Jun-23 | Combined | 1169 | 19 | 0.186 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1388-4 | | 15-May-23 | Combined | 1185 | 19 | 0.164 | 0.3 | Tree Trench | Streets | | | Delaware |
| | | 1388-5 | | 15-May-23 | Combined | 1528 | 19 | 0.211 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1388-6 | | 23-Oct-24 | Combined | 1426 | 19 | 0.197 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1388-7 | | 23-Oct-24 | Combined | 1403 | 19 | 0.296 | 0.4 | Tree Trench | Streets | | | Delaware |
| 50235 | 1392 | 1392-1 | Heitzman Playground Streets | 22-Oct-20 | Combined | 1614 | 7 | 0.323 | 0.5 | Tree Trench | Streets | $1,097,000.00 | - | Delaware,TTF |
| | | 1392-2 | | 22-Oct-20 | Combined | 3460 | 7 | 0.698 | 1.1 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1392-3 | | 22-Oct-20 | Combined | 1812 | 7 | 0.412 | 0.6 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1392-4 | | 22-Oct-20 | Combined | 2005 | 7 | 0.534 | 0.7 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1392-5 | | 22-Oct-20 | Combined | 1334 | 7 | 0.268 | 0.4 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1392-6 | | 22-Oct-20 | Combined | 3076 | 7 | 0.629 | 1.1 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1392-7 | | 22-Oct-20 | Combined | 1709 | 7 | 0.359 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| 50236 | 1393 | 1393-1 | Frankford Pause | 13-Jul-22 | Combined | 1702 | 0 | 0.285 | 0.6 | Infiltration/Storage Trench, Rain Garden | Open Space | $250,000.00 | Frankford Community Development Corporation | TTF |
| 50237 | 1394 | 1394-1 | Frankford and Belgrade | 30-Sep-21 | Combined | 980.4 | 0 | 0.286 | 0.4 | Infiltration/Storage Trench | Streets | $122,000.00 | - | Delaware |
| 50238 | 1396 | 1396-1 | Levick Edge | 25-Jul-24 | Combined | 3097 | 22 | 0.531 | 1.1 | Bumpout, Infiltration/Storage Trench | Streets | $2,081,000.00 | - | Delaware |
| | | 1396-10 | | 25-Jul-24 | Combined | 1254 | 22 | 0.19 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1396-11 | | 25-Jul-24 | Combined | 1071 | 22 | 0.196 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1396-2 | | 25-Jul-24 | Combined | 1771 | 22 | 0.274 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1396-3 | | 25-Jul-24 | Combined | 1408 | 22 | 0.344 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1396-4 | | 25-Jul-24 | Combined | 3679 | 22 | 0.513 | 1.0 | Bumpout, Tree Trench | Streets | | | Delaware |
| | | 1396-5 | | 25-Jul-24 | Combined | 2925 | 22 | 0.414 | 0.8 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1396-6 | | 25-Jul-24 | Combined | 1814 | 22 | 0.295 | 0.6 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1396-7 | | 25-Jul-24 | Combined | 3155 | 22 | 0.857 | 1.1 | Tree Trench | Streets | | | Delaware |
| | | 1396-8 | | 25-Jul-24 | Combined | 1575 | 22 | 0.353 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1396-9 | | 25-Jul-24 | Combined | 2896 | 22 | 0.622 | 1.0 | Tree Trench | Streets | | | Delaware |
| 50240 | 1401 | 1401-1 | Morris Park Neighborhood Streets 2 | 28-Feb-25 | Combined | 3313 | 11 | 0.588 | 1.0 | Bumpout, Infiltration/Storage Trench | Streets | $1,995,000.00 | - | Cobbs-Darby |
| | | 1401-2 | | 28-Feb-25 | Combined | 1538 | 11 | 0.321 | 0.5 | Bumpout, Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 1401-3 | | 28-Feb-25 | Combined | 1674 | 11 | 0.316 | 0.5 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 1401-4 | | 28-Feb-25 | Combined | 2210 | 11 | 0.585 | 0.7 | Bumpout, Tree Trench | Streets | | | Cobbs-Darby |
| | | 1401-5 | | 28-Feb-25 | Combined | 2464 | 11 | 0.409 | 0.7 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 1401-6 | | 28-Feb-25 | Combined | 2799 | 11 | 0.669 | 0.9 | Infiltration/Storage Trench | Streets | | | Cobbs-Darby |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50241 | 1403 | 1403-1 | Awbury GSI | 25-Jul-23 | Combined | 5407 | 18 | 0.967 | 1.9 | Infiltration/Storage Trench, Swale | Open Space | $1,354,000.00 | - | TTF |
| | | 1403-2 | | 25-Jul-23 | Combined | 4661 | 18 | 0.809 | 1.6 | Infiltration/Storage Trench, Swale | Open Space | | | TTF |
| | | 1403-3 | | 04-Mar-24 | Combined | 9128 | 18 | 1.239 | 2.5 | Infiltration/Storage Trench, Rain Garden | Open Space | | | TTF |
| 50245 | 1410 | 1410-1 | Rivera Recreation Center | 15-Mar-24 | Combined | 12214 | 0 | 1.151 | 2.3 | Infiltration/Storage Trench | Open Space | $138,000.00 | Councilwoman Sanchez,Department of Parks & Recreation (PPR) | Delaware |
| 50247 | 1413 * | 1413-1 | Lawndale Streets West | 17-Nov-23 | Combined | 1468 | 10 | 0.301 | 0.5 | Infiltration/Storage Trench | Streets | $1,426,000.00 | - | Delaware,TTF |
| | | 1413-2 | | 17-Nov-23 | Combined | 1315 | 10 | 0.255 | 0.4 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1413-3 | | 17-Nov-23 | Combined | 1430 | 10 | 0.292 | 0.5 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1413-4 | | 17-Nov-23 | Combined | 1247 | 10 | 0.204 | 0.4 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1413-5 | | 17-Nov-23 | Combined | 1461 | 10 | 0.329 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1413-6 | | 17-Nov-23 | Combined | 1306 | 10 | 0.348 | 0.5 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1413-7 | | 17-Nov-23 | Combined | 2009 | 10 | 0.534 | 0.6 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1413-8 | | 17-Nov-23 | Combined | 1354 | 10 | 0.363 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| | | 1413-9 | | 17-Nov-23 | Combined | 1295 | 10 | 0.339 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware,TTF |
| 50252 | 1420 | 1420-1 | Awbury Streets | 14-Mar-25 | Combined | 2120 | 15 | 0.457 | 0.7 | Infiltration/Storage Trench | Streets | $2,738,000.00 | - | TTF |
| | | 1420-2 | | 14-Mar-25 | Combined | 2155 | 15 | 0.478 | 0.7 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 1420-3 | | 14-Mar-25 | Combined | 2546 | 15 | 0.575 | 0.9 | Infiltration/Storage Trench | Streets | | | TTF |
| | | 1420-4 | | 14-Mar-25 | Combined | 4080 | 15 | 0.917 | 1.3 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 1420-5 | | 24-Apr-25 | Combined | 2529 | 15 | 0.502 | 0.8 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 1420-6 | | 24-Apr-25 | Combined | 2693 | 15 | 0.636 | 0.8 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| | | 1420-7 | | 24-Apr-25 | Combined | 7888 | 15 | 1.209 | 2.3 | Bumpout, Infiltration/Storage Trench | Streets | | | TTF |
| 50258 | 1429 | 1429-1 | Upland Way Package | 06-Jun-24 | Combined | 3796 | 21 | 0.677 | 1.3 | Tree Trench | Streets | $2,148,000.00 | - | Schuylkill |
| | | 1429-2 | | 06-Jun-24 | Combined | 2177 | 21 | 0.444 | 0.7 | Tree Trench | Streets | | | Schuylkill |
| | | 1429-3 | | 06-Jun-24 | Combined | 2402 | 21 | 0.583 | 0.8 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1429-4 | | 06-Jun-24 | Combined | 3997 | 21 | 1.016 | 1.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1429-5 | | 06-Jun-24 | Combined | 2143 | 21 | 0.575 | 0.7 | Tree Trench | Streets | | | Schuylkill |
| | | 1429-6 | | 06-Jun-24 | Combined | 2177 | 21 | 0.446 | 0.7 | Tree Trench | Streets | | | Schuylkill |
| | | 1429-7 | | 06-Jun-24 | Combined | 3137 | 21 | 0.612 | 1.0 | Tree Trench | Streets | | | Schuylkill |
| | | 1429-8 | | 06-Jun-24 | Combined | 2737 | 21 | 0.633 | 0.9 | Tree Trench | Streets | | | Schuylkill |
| 50262 | 1436 | 1436-1 | Callowhill Street West | 17-May-24 | Combined | 13260 | 30 | 2.432 | 4.8 | Infiltration/Storage Trench, Rain Garden | Open Space | $1,986,000.00 | - | Cobbs-Darby |
| | | 1436-2 | | 11-Mar-24 | Combined | 1776 | 30 | 0.315 | 0.5 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 1436-3 | | 11-Mar-24 | Combined | 3489 | 30 | 0.853 | 1.5 | Bumpout, Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 1436-4 | | 11-Mar-24 | Combined | 2497 | 30 | 0.578 | 0.8 | Bumpout, Infiltration/Storage Trench | Streets | | | Cobbs-Darby |
| | | 1436-5 | | 11-Mar-24 | Combined | 1418 | 30 | 0.284 | 0.5 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 1436-6 | | 16-Oct-23 | Combined | 2577 | 30 | 0.687 | 0.8 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 1436-7 | | 16-Oct-23 | Combined | 1223 | 30 | 0.29 | 0.4 | Tree Trench | Streets | | | Cobbs-Darby |
| | | 1436-8 | | 16-Oct-23 | Combined | 1246 | 30 | 0.295 | 0.4 | Tree Trench | Streets | | | Cobbs-Darby |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50263 | 1437 | 1437-10 | Rowland Leon | 07-Oct-24 | Combined | 2531 | 39 | 0.374 | 0.7 | Infiltration/Storage Trench | Streets | $5,857,000.00 | - | Delaware,Pennypack |
| | | 1437-11 | | 07-Oct-24 | Combined | 2137 | 39 | 0.377 | 0.6 | Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 1437-12 | | 07-Oct-24 | Combined | 2485 | 39 | 0.405 | 0.7 | Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 1437-13 | | 14-Oct-24 | Combined | 1613 | 39 | 0.302 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 1437-14 | | 14-Oct-24 | Combined | 2661 | 39 | 0.544 | 0.7 | Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 1437-15 | | 14-Nov-24 | Combined | 2676 | 39 | 0.503 | 0.7 | Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| 50264 | 1438 | 1438-1 | Huntingdon Emerald Package | 15-Feb-24 | Combined | 7351 | 8 | 0.934 | 1.9 | Infiltration/Storage Trench, Rain Garden | Vacant Land | $587,000.00 | Arcadia Commons,Neighborhood Gardens Trust (NGT) | Delaware |
| 50267 | 1441 * | 1441-1 | Holmesburg Streets | 30-Jan-23 | Combined | 1770 | 14 | 0.369 | 0.5 | Tree Trench | Streets | Unknown | - | Pennypack |
| | | 1441-2 | | 21-Feb-23 | Combined | 2541 | 14 | 0.71 | 0.7 | Tree Trench | Streets | | | Pennypack |
| | | 1441-3 | | 21-Feb-23 | Combined | 886 | 14 | 0.248 | 0.2 | Infiltration/Storage Trench | Streets | | | Pennypack |
| | | 1441-4 | | 21-Dec-22 | Combined | 1879 | 14 | 0.507 | 0.5 | Tree Trench | Streets | | | Pennypack |
| | | 1441-5 | | 05-Dec-22 | Combined | 1996 | 14 | 0.518 | 0.5 | Infiltration/Storage Trench | Streets | | | Pennypack |
| | | 1441-6 | | 11-Nov-22 | Combined | 1318 | 14 | 0.344 | 0.4 | Tree Trench | Streets | | | Pennypack |
| | | 1441-7 | | 03-Nov-22 | Combined | 1443 | 14 | 0.297 | 0.4 | Tree Trench | Streets | | | Pennypack |
| 50269 | 1444 | 1444-1 | Holmesburg Rec Center LAD | 16-Oct-24 | Combined | 19627 | 0 | 2.915 | 5.6 | Infiltration/Storage Trench | Open Space | $3,596,000.00 | Department of Parks & Recreation (PPR) | Delaware,Pennypack |
| | | 1444-2 | | 02-Oct-24 | Combined | 13877 | 0 | 2.055 | 3.9 | Infiltration/Storage Trench | Open Space | | | Delaware,Pennypack |
| 50271 | 1446 | 1446-1 | 57th St from Woodbine Ave to Lebanon Ave | 10-Jun-24 | Combined | 2796 | 19 | 0.671 | 0.9 | Bumpout, Infiltration/Storage Trench | Streets | $2,813,000.00 | - | Schuylkill |
| | | 1446-10 | | 03-May-24 | Combined | 3854 | 19 | 1.025 | 1.3 | Tree Trench | Streets | | | Schuylkill |
| | | 1446-11 | | 30-Jan-24 | Combined | 1550 | 19 | 0.442 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | | 1446-2 | | 30-Jan-24 | Combined | 2179 | 19 | 0.475 | 0.7 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1446-3 | | 30-Jan-24 | Combined | 3491 | 19 | 0.693 | 1.1 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1446-4 | | 30-Jan-24 | Combined | 2232 | 19 | 0.45 | 0.7 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1446-5 | | 30-Jan-24 | Combined | 3654 | 19 | 0.759 | 1.2 | Bumpout, Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1446-6 | | 30-Jan-24 | Combined | 1729 | 19 | 0.403 | 0.5 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| | | 1446-7 | | 03-May-24 | Combined | 2629 | 19 | 0.619 | 0.9 | Tree Trench | Streets | | | Schuylkill |
| | | 1446-8 | | 03-May-24 | Combined | 2090 | 19 | 0.42 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | | 1446-9 | | 10-Jun-24 | Combined | 1261 | 19 | 0.224 | 0.4 | Infiltration/Storage Trench | Streets | | | Schuylkill |
| 50272 | 1447 | 1447-1 | East Poplar Green Streets | 10-Jan-23 | Combined | 3008 | 10 | 0.72 | 1.0 | Tree Trench | Streets | $1,143,000.00 | - | Delaware |
| | | 1447-2 | | 19-Jan-23 | Combined | 1683 | 10 | 0.402 | 0.5 | Infiltration/Storage Trench, Planter | Streets | | | Delaware |
| | | 1447-3 | | 10-Jan-23 | Combined | 1552 | 10 | 0.277 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1447-4 | | 19-Jan-23 | Combined | 1159 | 10 | 0.22 | 0.4 | Infiltration/Storage Trench, Rain Garden | Streets | | | Delaware |
| | | 1447-5 | | 20-Jan-23 | Combined | 1375 | 10 | 0.336 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1447-6 | | 29-Mar-23 | Combined | 2175 | 10 | 0.453 | 0.7 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware |
| 50275 | 1450 | 1450-1 | Holmesburg Edge | 30-Dec-24 | Combined | 2497 | 27 | 0.376 | 0.8 | Tree Trench | Streets | $1,286,000.00 | - | Pennypack |
| | | 1450-2 | | 30-Dec-24 | Combined | 1650 | 27 | 0.24 | 0.5 | Tree Trench | Streets | | | Pennypack |
| | | 1450-3 | | 30-Dec-24 | Combined | 5387 | 27 | 1.178 | 2.1 | Tree Trench | Streets | | | Pennypack |
| | | 1450-4 | | 30-Dec-24 | Combined | 2353 | 27 | 0.568 | 0.8 | Tree Trench | Streets | | | Pennypack |
| | | 1450-5 | | 27-Dec-24 | Combined | 1821 | 27 | 0.371 | 0.6 | Infiltration/Storage Trench | Streets | | | Pennypack |
| | | 1450-6 | | 30-Dec-24 | Combined | 1460 | 27 | 0.4 | 0.5 | Tree Trench | Streets | | | Pennypack |
| 50279 | 1459 | 1459-1 | Holman Field | 26-Apr-23 | Combined | 8757 | 3 | 1.868 | 2.6 | Tree Trench | Open Space | $929,000.00 | - | TTF |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50281 | 1461 | 1461-1 | Paschalville Library Branch Rain Gardens | 18-Jul-24 | Combined | 2292 | 23 | 0.601 | 0.8 | Tree Trench | Streets | $2,010,000.00 | - | Cobbs-Darby,Schuylkill |
| | | 1461-2 | | 18-Jul-24 | Combined | 2719 | 23 | 0.719 | 0.9 | Bumpout, Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1461-3 | | 18-Jul-24 | Combined | 1185 | 23 | 0.214 | 0.4 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1461-4 | | 18-Jul-24 | Combined | 4843 | 23 | 0.854 | 1.5 | Bumpout, Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1461-5 | | 18-Jul-24 | Combined | 3209 | 23 | 0.568 | 1.0 | Bumpout, Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1461-6 | | 18-Jul-24 | Combined | 3324 | 23 | 0.615 | 1.2 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1461-7 | | 18-Jul-24 | Combined | 2662 | 23 | 0.543 | 0.9 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| 50284 | 1469 | 1469-1 | Erdrick Walker | 12-Mar-25 | Combined | 1811 | 22 | 0.494 | 0.6 | Bumpout, Infiltration/Storage Trench | Streets | $4,045,000.00 | - | Delaware,Pennypack |
| | | 1469-2 | | 12-Mar-25 | Combined | 3992 | 22 | 0.996 | 1.3 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 1469-3 | | 12-Mar-25 | Combined | 2803 | 22 | 0.515 | 1.0 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 1469-4 | | 12-Mar-25 | Combined | 3860 | 22 | 1.056 | 1.3 | Bumpout, Tree Trench | Streets | | | Delaware,Pennypack |
| | | 1469-5 | | 12-Mar-25 | Combined | 4191 | 22 | 1.06 | 1.4 | Bumpout, Tree Trench | Streets | | | Delaware,Pennypack |
| | | 1469-6 | | 12-Mar-25 | Combined | 2987 | 22 | 0.745 | 1.0 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware,Pennypack |
| | | 1469-7 | | 12-Mar-25 | Combined | 4614 | 22 | 1.135 | 1.5 | Tree Trench | Streets | | | Delaware,Pennypack |
| 50288 | 1475 | 1475-1 | McMenamy Torresdale | 18-Oct-24 | Combined | 3474 | 32 | 0.53 | 1.1 | Tree Trench | Streets | $2,914,000.00 | - | Delaware,Pennypack |
| | | 1475-2 | | 18-Oct-24 | Combined | 4893 | 32 | 0.939 | 1.6 | Bumpout, Tree Trench | Streets | | | Delaware,Pennypack |
| | | 1475-3 | | 18-Oct-24 | Combined | 3110 | 32 | 0.548 | 1.0 | Bumpout, Tree Trench | Streets | | | Delaware,Pennypack |
| | | 1475-4 | | 18-Oct-24 | Combined | 1418 | 32 | 0.275 | 0.5 | Tree Trench | Streets | | | Delaware,Pennypack |
| | | 1475-5 | | 18-Oct-24 | Combined | 1661 | 32 | 0.295 | 0.5 | Tree Trench | Streets | | | Delaware,Pennypack |
| | | 1475-6 | | 18-Oct-24 | Combined | 1562 | 32 | 0.259 | 0.5 | Tree Trench | Streets | | | Delaware,Pennypack |
| | | 1475-7 | | 18-Oct-24 | Combined | 2437 | 32 | 0.42 | 0.8 | Tree Trench | Streets | | | Delaware,Pennypack |
| | | 1475-8 | | 18-Oct-24 | Combined | 2105 | 32 | 0.463 | 0.7 | Tree Trench | Streets | | | Delaware,Pennypack |
| | | 1475-9 | | 18-Oct-24 | Combined | 975 | 32 | 0.228 | 0.3 | Tree Trench | Streets | | | Delaware,Pennypack |
| 50290 | 1477 | 1477-1 | Cottage and Jackson Streets | 21-Mar-24 | Combined | 4183 | 17 | 0.95 | 1.3 | Bumpout, Tree Trench | Streets | $3,351,000.00 | - | Delaware |
| | | 1477-10 | | 30-Aug-23 | Combined | 1395 | 17 | 0.3 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1477-11 | | 30-Aug-23 | Combined | 1550 | 17 | 0.326 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1477-12 | | 30-Aug-23 | Combined | 1107.4 | 17 | 0.274 | 0.5 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1477-2 | | 21-Mar-24 | Combined | 3309 | 17 | 0.681 | 1.0 | Bumpout, Tree Trench | Streets | | | Delaware |
| | | 1477-3 | | 01-Mar-24 | Combined | 3528 | 17 | 0.8 | 1.1 | Bumpout, Tree Trench | Streets | | | Delaware |
| | | 1477-4 | | 01-Mar-24 | Combined | 3699 | 17 | 0.84 | 1.2 | Bumpout, Tree Trench | Streets | | | Delaware |
| | | 1477-5 | | 01-Mar-24 | Combined | 2617 | 17 | 0.521 | 0.8 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1477-6 | | 05-Nov-23 | Combined | 2422 | 17 | 0.645 | 0.8 | Tree Trench | Streets | | | Delaware |
| | | 1477-7 | | 05-Nov-23 | Combined | 1423 | 17 | 0.221 | 0.4 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1477-8 | | 05-Nov-23 | Combined | 2797 | 17 | 0.555 | 0.9 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1477-9 | | 30-Aug-23 | Combined | 1352 | 17 | 0.34 | 0.7 | Infiltration/Storage Trench | Streets | | | Delaware |
| 50298 | 1491 | 1491-1 | Hunting Park Cool Cover 1 | 04-Sep-24 | Combined | 2151 | 24 | 0.423 | 0.7 | Tree Trench | Streets | $1,820,000.00 | - | Delaware,TTF |
| | | 1491-2 | | 04-Sep-24 | Combined | 1611 | 24 | 0.284 | 0.5 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1491-3 | | 04-Sep-24 | Combined | 3302 | 24 | 0.786 | 1.1 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1491-4 | | 04-Sep-24 | Combined | 2691 | 24 | 0.653 | 0.8 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1491-5 | | 04-Sep-24 | Combined | 1631 | 24 | 0.393 | 0.5 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1491-6 | | 04-Sep-24 | Combined | 1230 | 24 | 0.291 | 0.4 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1491-7 | | 04-Sep-24 | Combined | 1246 | 24 | 0.285 | 0.4 | Tree Trench | Streets | | | Delaware,TTF |
| | | 1491-8 | | 04-Sep-24 | Combined | 1763 | 24 | 0.416 | 0.5 | Tree Trench | Streets | | | Delaware,TTF |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50299 | 1495 | 1495-1 | 51st St from Cedar to Walnut | 01-Mar-24 | Combined | 3499 | 48 | 0.689 | 1.0 | Bumpout, Infiltration/Storage Trench | Streets | $3,995,000.00 | - | Cobbs-Darby,Schuylkill |
| | | 1495-2 | | 29-Mar-24 | Combined | 1943 | 48 | 0.35 | 0.6 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1495-3 | | 24-May-24 | Combined | 1911 | 48 | 0.299 | 0.6 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1495-4 | | 06-Aug-24 | Combined | 2130 | 48 | 0.342 | 0.7 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1495-5 | | 04-Sep-24 | Combined | 3902 | 48 | 0.607 | 1.2 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1495-6 | | 08-Nov-24 | Combined | 1408 | 48 | 0.233 | 0.5 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1495-7 | | 07-Jun-24 | Combined | 2034 | 48 | 0.338 | 0.6 | Bumpout, Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| | | 1495-8 | | 01-Nov-24 | Combined | 1617 | 48 | 0.346 | 0.5 | Tree Trench | Streets | | | Cobbs-Darby,Schuylkill |
| 50315 | 1524 | 1524-1 | Lehigh & Sedgley Green Triangle | 01-Nov-23 | Combined | 6149 | 20 | 0.92 | 1.8 | Rain Garden, Tree Trench | Streets | $1,446,000.00 | - | Delaware |
| | | 1524-2 | | 01-Aug-23 | Combined | 2138 | 20 | 0.415 | 0.7 | Tree Trench | Streets | | | Delaware |
| | | 1524-3 | | 01-Aug-23 | Combined | 1157 | 20 | 0.211 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1524-4 | | 01-Aug-23 | Combined | 1528 | 20 | 0.212 | 0.4 | Tree Trench | Streets | | | Delaware |
| | | 1524-5 | | 01-Aug-23 | Combined | 1878 | 20 | 0.364 | 0.6 | Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1524-6 | | 13-Jan-23 | Combined | 2707 | 20 | 0.562 | 0.9 | Tree Trench | Streets | | | Delaware |
| | | 1524-7 | | 05-Jan-23 | Combined | 1057 | 20 | 0.174 | 0.3 | Tree Trench | Streets | | | Delaware |
| 50316 | 1525 | 1525-1 | Algard Wellington | 15-Apr-24 | Combined | 1584 | 46 | 0.316 | 0.5 | Tree Trench | Streets | $1,967,000.00 | - | Delaware |
| | | 1525-2 | | 15-Apr-24 | Combined | 1355 | 46 | 0.253 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1525-3 | | 15-Apr-24 | Combined | 1593 | 46 | 0.299 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1525-4 | | 15-Apr-24 | Combined | 1399 | 46 | 0.396 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1525-5 | | 15-Apr-24 | Combined | 1844 | 46 | 0.341 | 0.6 | Tree Trench | Streets | | | Delaware |
| | | 1525-6 | | 15-Apr-24 | Combined | 3686 | 46 | 0.752 | 1.2 | Tree Trench | Streets | | | Delaware |
| | | 1525-7 | | 15-Apr-24 | Combined | 1676 | 46 | 0.319 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1525-8 | | 15-Apr-24 | Combined | 1574 | 46 | 0.425 | 0.5 | Tree Trench | Streets | | | Delaware |
| | | 1525-9 | | 15-Apr-24 | Combined | 1479 | 46 | 0.276 | 0.6 | Tree Trench | Streets | | | Delaware |
| 50317 | 1527 | 1527-6 | Northwood Park Streets | 18-Dec-24 | Combined | 6300 | 37 | 1.177 | 2.3 | Tree Trench | Streets | $2,834,000.00 | - | Delaware,TTF |
| 50320 | 1544 | 1544-2 | Small Sites & ROW Connections | 02-Sep-22 | Combined | 4257 | 5 | 1.057 | 1.4 | Rain Garden, Tree Trench | Vacant Land | $778,000.00 | - | Delaware |
| 50325 | 1546 | 1546-1 | Connell Park | 25-Feb-25 | Combined | 2335 | 38 | 0.612 | 0.8 | Infiltration/Storage Trench, Rain Garden | Streets | $2,871,000.00 | - | Schuylkill |
| | | 1546-10 | | 25-Feb-25 | Combined | 1367 | 38 | 0.368 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | | 1546-11 | | 25-Feb-25 | Combined | 1340 | 38 | 0.368 | 0.4 | Tree Trench | Streets | | | Schuylkill |
| | | 1546-2 | | 30-Jul-24 | Combined | 1181 | 38 | 0.311 | 0.4 | Tree Trench | Streets | | | Schuylkill |
| | | 1546-3 | | 30-Jul-24 | Combined | 1515 | 38 | 0.329 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | | 1546-4 | | 30-Jul-24 | Combined | 1414 | 38 | 0.36 | 0.5 | Tree Trench | Streets | | | Schuylkill |
| | | 1546-5 | | 30-Jul-24 | Combined | 1934 | 38 | 0.371 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| | | 1546-6 | | 25-Feb-25 | Combined | 3660 | 38 | 1.005 | 1.2 | Bumpout, Tree Trench | Streets | | | Schuylkill |
| | | 1546-7 | | 25-Feb-25 | Combined | 1627 | 38 | 0.328 | 0.5 | Bumpout, Tree Trench | Streets | | | Schuylkill |
| | | 1546-8 | | 25-Feb-25 | Combined | 2456 | 38 | 0.573 | 0.8 | Bumpout, Tree Trench | Streets | | | Schuylkill |
| | | 1546-9 | | 25-Feb-25 | Combined | 1783 | 38 | 0.479 | 0.6 | Tree Trench | Streets | | | Schuylkill |
| 50329 | 1560 | 1560-1 | Ziehler Playground | 05-Apr-24 | Combined | 12404 | 18 | 1.547 | 3.1 | Infiltration/Storage Trench, Rain Garden | Open Space | $882,000.00 | Rebuild | TTF |
| 50340 | 1579 | 1579-1 | Brous & Battersby Streets | 17-Feb-25 | Combined | 3788 | 67 | 0.869 | 1.3 | Tree Trench | Streets | $6,086,000.00 | | Delaware |
| | | 1579-2 | | 17-Feb-25 | Combined | 1312 | 67 | 0.355 | 0.7 | Tree Trench | Streets | | | Delaware |
| | | 1579-3 | | 02-Apr-25 | Combined | 4019 | 67 | 1.016 | 1.4 | Tree Trench | Streets | | | Delaware |
| | | 1579-7 | | 01-Apr-25 | Combined | 2656 | 67 | 0.557 | 1.1 | Bumpout, Infiltration/Storage Trench | Streets | | | Delaware |
| | | 1579-8 | | 29-May-25 | Combined | 5352 | 67 | 1.193 | 2.4 | Bumpout, Infiltration/Storage Trench, Tree Trench | Streets | | | Delaware |
| | | 1579-9 | | 04-Jun-25 | Combined | 5593 | 67 | 1.189 | 2.1 | Bumpout, Tree Trench | Streets | | | Delaware |
| 50358 | 1607 | 1607-1 | Small Sites and ROW Connections Project | 04-Jun-24 | Combined | 2178 | 6 | 0.405 | 0.8 | Tree Trench | Streets | $880,000.00 | | Delaware,Schuylkill,TTF |
| | | 1607-2 | | 20-Sep-24 | Combined | 918 | 6 | 0.259 | 0.3 | Tree Trench | Streets | | | Delaware,Schuylkill,TTF |

| Work Number | Project ID | System Number | Project Name | Construction Completion Date | Sewer Type | Storage Volume (cf) | New Trees | Drainage Area (acres) | Greened Acres (acre-inches) | SMP Type | Program | Green Construction Cost ** | Partner(s) | Watershed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 64056 | 564 | 564-1 | Two (2) 30 Million Gallon Storage Capacity Tanks at East Park - GC | 25-Feb-20 | Combined | 1637 | 0 | 0.497 | 0.6 | Rain Garden | Open Space | Unknown | Southeastern Transportation Authority,Philadelphia Department of Parks & Recreation | Schuylkill |
| 90055 | 1539 | 1539-1 | Hydrant Relocation and Green Streets Buyback: 2035 E Lehigh Ave. & Frankford Ave. | 23-Jul-21 | Combined | 3273.8 | 8 | 0.609 | 1.0 | Tree Trench | Streets | Unknown | Riverwards LLC | Delaware |
| **Total Greened Acres:** | | | | | | | | | **1216** | | | | | |

# Appendix 2

## Planned Public Green Stormwater Infrastructure Projects

## Planned Public Green Infrastructure Reporting Metrics

The Public Planned Projects reporting format and metric definitions are described in Table 1 below.

**Table 1: Public Reporting Metric Definitions**

| Metric | Definition |
|---|---|
| **Work Number** | Work Number is a unique assigned identifier from the CIPIT program. A CIPIT work number is attached to construction proposals, bids, work orders, contracts and invoices. |
| **Project ID** | This is a unique number, which is assigned automatically by the system when the project is created. |
| **System Number** | Unique identifier for system. Composed of the project ID and the System ID. |
| **Completion Date Estimate** | Estimated date of construction completion. |
| **Status** | Current project status. Statuses include: In Design, Contract Management (In Projects Control), and In Construction. |
| **Greened Acres (acre-inch)** | Greened Acres is a metric that accounts for the conversion of a highly impervious urban landscape through the implementation of projects that reduce storm water runoff. A Greened Acre is described as an acre of impervious cover connected (tributary) to a combined sewer that subsequently is reconfigured to utilize green stormwater infrastructure to manage at least one inch of stormwater runoff. If storage is provided, systems can credit up to two inches of the storm water runoff from that acre. The best available Greened Acre value is pulled from the database for regulatory reporting. |
| **Estimated SMP Type(s)** | A Stormwater Management Practice (SMP) is a technique that controls the rate and volume of stormwater runoff and/or improves runoff water quality. Multiple SMP types can be grouped together in a larger GSI system. The SMP types were originally defined in Table 2-1 of the IAMP. |
| **Program** | Current public programs which a greened acre can be assigned to include:<br>• Alleys/Driveways<br>• Campuses<br>• Facilities<br>• Industry and Business<br>• Open Space<br>• Parking<br>• Schools<br>• Streets<br>• Vacant Land |
| **Estimated Construction Cost** | Projects with a status of Construction Complete will have a finalized cost of construction provided. Prior to construction completion PWD provides the engineers estimate for construction cost. |
| **Potential Partner(s)** | External entities involved in a project. |

| Metric | Definition |
| --- | --- |
| **Watershed** | The City of Philadelphia watershed where the project is located. Four of the City's seven watersheds fall at least partially within the combined sewer area. These watersheds are:<br>• Cobbs Creek Watershed<br>• Delaware Direct Watershed<br>• Tookany/Tacony-Frankford Creek Watershed<br>• Schuylkill River Watersheds |

**Table 2: Planned Public Green Stormwater Infrastructure Projects**

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20417 | 1061 | 1061-1 | Combined | Delaware | Streets | Design | Infiltration/Storage Trench | | TBD | 2028 | TBD |
| | | 1061-2 | Combined | Delaware | Streets | Design | Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1061-3 | Combined | Delaware | Streets | Design | Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1061-4 | Combined | Delaware | Streets | Design | Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1061-5 | Combined | Delaware | Streets | Design | Infiltration/Storage Trench | | TBD | 2028 | |
| 20479 | 1451 | | Combined | Delaware,TTF | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 20496 | 1212 | 1212-1 | Combined | Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | TBD |
| 20538 | 1611 | | Combined | TTF | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 20545 | 1586 | | Combined | Cobbs-Darby | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 20579 | 1466 | | Combined | Cobbs-Darby | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 20597 | 1543 | 1543-1 | Combined | Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | TBD |
| 20622 | 1523 | | Combined | TTF | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 20636 | 1559 | | Combined | Cobbs-Darby | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 20651 | 1590 | | Combined,Separate | Delaware,Pennypack | Streets | Design | Stormwater Bump-out,Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 20653 | 1581 | 1581-1 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | TBD |
| | | 1581-10 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1581-11 | Combined | Delaware | Streets | Design | Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1581-2 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1581-3 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1581-4 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1581-5 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1581-6 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1581-7 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1581-8 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1581-9 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| 20659 | 1617 | | Combined | Cobbs-Darby | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 20662 | 1650 | | Combined | TTF | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 20664 | 1624 | | Combined | TTF | Streets | Design | Stormwater TreeTrench, | Streets Department | TBD | 2028 | TBD |
| 20669 | 1657 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 20681 | 1667 | | Combined | Delaware | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 40780 | 1496 | | Combined | Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 40875 | 1515 | 1515-1 | Combined | Cobbs-Darby | Streets | Design | Tree Trench | | TBD | 2028 | TBD |
| 40923 | 1244 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 40975 | 1377 | | Combined | Schuylkill | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41033 | 1505 | | Combined | Schuylkill | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41064 | 1452 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41072 | 1609 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41116 | 1601 | | Combined | Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41117 | 1551 | | Combined | Cobbs-Darby | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41126 | 1549 | 1549-1 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | TBD |
| 41140 | 1643 | | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41147 | 1623 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41148 | 1661 | | Combined | Delaware | Open Space,Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 41153 | 1595 | 1595-1 | Combined | Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | TBD |
| | | 1595-2 | Combined | Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1595-3 | Combined | Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1595-4 | Combined | Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1595-5 | Combined | Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| 41166 | 1640 | | Combined | Schuylkill | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41174 | 1678 | | Combined | Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41179 | 1644 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41180 | 1614 | | Combined | TTF | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41181 | 1615 | | Combined | TTF | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41183 | 1679 | | Combined | TTF | Streets | Design | Stormwater TreeTrench, | Christ Baptist Church | TBD | 2028 | TBD |
| 41187 | 1621 | | Combined | Delaware,Schuylkill | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41189 | 1629 | | Combined | TTF | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41191 | 1637 | | Combined | Delaware | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41199 | 1646 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41201 | 1654 | | Combined | Delaware | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41203 | 1658 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41208 | 1666 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | Streets Department | TBD | 2028 | TBD |
| 41211 | 1671 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41212 | 1677 | | Combined | Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41220 | 1681 | | Combined | Schuylkill | Streets | Design | Infiltration Storage Trench, | | TBD | 2028 | TBD |
| 41221 | 1686 | | Combined | Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41224 | 1691 | | Combined | Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41228 | 1696 | | Combined | Schuylkill | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41237 | 1711 | | Combined | Delaware | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41240 | 1714 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41246 | 1726 | | Combined | Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41250 | 1728 | | Combined | Cobbs-Darby | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41255 | 1730 | | Combined | Cobbs-Darby | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41256 | 1729 | | Combined | Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 41260 | 1736 | | Combined | Schuylkill | Streets | Design | | | TBD | 2028 | TBD |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50107 | 1052 | 1052-1 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Infiltration/Storage Trench | | TBD | 2028 | $4,700,000.00 |
| | | 1052-10 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1052-11 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1052-12 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1052-13 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1052-14 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Bumpout, Tree Trench | | TBD | 2028 | |
| | | 1052-15 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Infiltration/Storage Trench, Planter | | TBD | 2028 | |
| | | 1052-2 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Bumpout, Tree Trench | | TBD | 2028 | |
| | | 1052-3 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1052-4 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1052-5 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1052-6 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1052-7 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1052-8 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1052-9 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| 50141 | 1150 | | Combined | TTF | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | $2,247,000.00 |
| 50169 | 1365 | | Combined | Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | $12,782,000.00 |
| 50242 | 1404 | | Combined,Separate | Schuylkill,TTF | Open Space,Streets | Design | Stormwater Bump-out,Infiltration Storage Trench,Rain Garden, | PennDOT,Department of Parks & Recreation (PPR),Councilwoman Bass,Nicetown CDC,Philadelphia Redevelopment Authority (PRA) | TBD | 2028 | TBD |
| 50265 | 1439 | | Combined | Cobbs-Darby | Open Space,Streets | Design | Stormwater Bump-out,Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50286 | 1473 | 1473-1 | Combined | Cobbs-Darby | Streets | Design | Tree Trench | | TBD | 2028 | TBD |
| | | 1473-10 | Combined | Cobbs-Darby | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1473-2 | Combined | Cobbs-Darby | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1473-3 | Combined | Cobbs-Darby | Streets | Design | Bumpout, Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1473-4 | Combined | Cobbs-Darby | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1473-5 | Combined | Cobbs-Darby | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1473-6 | Combined | Cobbs-Darby | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1473-7 | Combined | Cobbs-Darby | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1473-8 | Combined | Cobbs-Darby | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1473-9 | Combined | Cobbs-Darby | Streets | Design | Tree Trench | | TBD | 2028 | |
| 50293 | 1481 | 1481-1 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | TBD |
| | | 1481-10 | Combined | Delaware | Streets | Design | Bumpout, Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1481-11 | Combined | Delaware | Streets | Design | Bumpout, Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1481-12 | Combined | Delaware | Streets | Design | Bumpout, Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1481-13 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1481-2 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1481-3 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1481-4 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1481-5 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1481-6 | Combined | Delaware | Streets | Design | Bumpout, Tree Trench | | TBD | 2028 | |
| | | 1481-7 | Combined | Delaware | Streets | Design | Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1481-8 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1481-9 | Combined | Delaware | Streets | Design | Bumpout, Infiltration/Storage Trench | | TBD | 2028 | |
| 50294 | 1482 | | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Stormwater Bump-out,Swale,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50303 | 1502 | 1502-1 | Combined | Delaware | Streets | Design | Bumpout, Tree Trench | | TBD | 2028 | TBD |
| | | 1502-2 | Combined | Delaware | Streets | Design | Bumpout, Tree Trench | | TBD | 2028 | |
| | | 1502-3 | Combined | Delaware | Streets | Design | Bumpout, Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1502-4 | Combined | Delaware | Streets | Design | Bumpout, Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1502-5 | Combined | Delaware | Streets | Design | Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1502-6 | Combined | Delaware | Streets | Design | Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1502-7 | Combined | Delaware | Streets | Design | Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1502-8 | Combined | Delaware | Streets | Design | Bumpout, Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1502-9 | Combined | Delaware | Streets | Design | Infiltration/Storage Trench | | TBD | 2028 | |
| 50307 | 1509 | 1509-1 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Infiltration/Storage Trench, Rain Garden | Department of Parks & Recreation (PPR) | TBD | 2028 | TBD |
| | | 1509-10 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1509-11 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1509-12 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1509-13 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1509-2 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1509-3 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1509-4 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1509-5 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1509-6 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1509-7 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1509-8 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1509-9 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| 50318 | 1528 | | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50319 | 1531 | | Combined | Cobbs-Darby | Facilities,Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | $4,306,000.00 |
| 50322 | 1538 | 1538-1 | Combined | TTF | Streets | Design | Tree Trench | | TBD | 2028 | $2,646,000.00 |
| | | 1538-2 | Combined | TTF | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1538-3 | Combined | TTF | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1538-4 | Combined | TTF | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1538-5 | Combined | TTF | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1538-6 | Combined | TTF | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1538-7 | Combined | TTF | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1538-8 | Combined | TTF | Streets | Design | Tree Trench | | TBD | 2028 | |
| 50323 | 1541 | | Combined | Cobbs-Darby | Streets | Design | Stormwater Bump-out,Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50324 | 1545 | | Combined | Delaware,TTF | Streets | Design | Stormwater Bump-out,Rain Garden,Stormwater TreeTrench, | | TBD | 2028 | $4,743,000.00 |
| 50326 | 1548 | | Combined | Delaware,TTF | Open Space,Streets | Design | Stormwater Bump-out,Infiltration Storage Trench,Swale,Stormwater TreeTrench, | | TBD | 2028 | TBD |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50328 | 1557 | | Combined | TTF | Streets | Design | Stormwater Bump-out,Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50331 | 1564 | | Combined | Cobbs-Darby | Streets | Design | Stormwater Bump-out,Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50332 | 1568 | 1568-1 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | $2,883,000.00 |
| | | 1568-10 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1568-11 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1568-2 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1568-3 | Combined | Delaware | Streets | Design | Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1568-4 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1568-5 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1568-6 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1568-7 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1568-8 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1568-9 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| 50333 | 1571 | | Combined | Schuylkill | Open Space,Streets | Design | Infiltration Storage Trench,Rain Garden, | | TBD | 2028 | TBD |
| 50334 | 1570 | | Combined | Delaware | Open Space | Design | Infiltration Storage Trench, | Department of Parks & Recreation (PPR) | TBD | 2028 | TBD |
| 50335 | 1573 | | Combined | Delaware | Streets | Design | Infiltration Storage Trench,Rain Garden,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50336 | 1574 | | Combined | Cobbs-Darby | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50337 | 1575 | 1575-1 | Combined | Delaware | Streets | Design | Infiltration/Storage Trench, Rain Garden, Tree Trench | | TBD | 2028 | TBD |
| | | 1575-10 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1575-11 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1575-2 | Combined | Delaware | Streets | Design | Stormwater Tree | | TBD | 2028 | |
| | | 1575-3 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1575-4 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1575-5 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1575-6 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1575-7 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1575-8 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1575-9 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| 50339 | 1578 | | Combined | Schuylkill | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50341 | 1580 | 1580-1 | Combined | Cobbs-Darby | Streets | Design | Tree Trench | | TBD | 2028 | $3,034,000.00 |
| | | 1580-2 | Combined | Cobbs-Darby | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1580-3 | Combined | Cobbs-Darby | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1580-4 | Combined | Cobbs-Darby | Streets | Design | Bumpout, Tree Trench | | TBD | 2028 | |
| | | 1580-5 | Combined | Cobbs-Darby | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1580-6 | Combined | Cobbs-Darby | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1580-7 | Combined | Cobbs-Darby | Streets | Design | Bumpout, Tree Trench | | TBD | 2028 | |
| | | 1580-8 | Combined | Cobbs-Darby | Streets | Design | Bumpout, Infiltration/Storage Trench | | TBD | 2028 | |
| 50342 | 1583 | 1583-1 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | $3,388,000.00 |
| | | 1583-10 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1583-11 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1583-2 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1583-3 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1583-4 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1583-5 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1583-6 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1583-7 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1583-8 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1583-9 | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Tree Trench | | TBD | 2028 | |
| 50349 | 1597 | | Combined,Non-Contributing | Cobbs-Darby | Streets,Vacant Land | Design | Infiltration Storage Trench,Rain Garden, | | TBD | 2028 | TBD |
| 50350 | 1598 | | Combined | Delaware | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50351 | 1599 | | Combined | Cobbs-Darby | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50355 | 1604 | | Combined,Storm Water Only | Schuylkill | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50356 | 1605 | | Combined | Delaware | Open Space,Streets,Vacant Land | Design | Infiltration Storage Trench,Rain Garden,Stormwater TreeTrench, | Department of Parks & Recreation (PPR) | TBD | 2028 | TBD |
| 50357 | 1606 | | Combined,Separate | Delaware,Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50359 | 1608 | | Combined | Delaware | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50360 | 1612 | | Combined | Delaware | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50361 | 1613 | | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50362 | 1616 | | Combined | Delaware,Schuylkill | Facilities,Streets | Design | Rain Garden,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50363 | 1618 | | Combined | Cobbs-Darby | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50365 | 1620 | | Combined | Schuylkill | Open Space,Streets | Design | Stormwater TreeTrench, | Department of Parks & Recreation (PPR) | TBD | 2028 | TBD |
| 50366 | 1622 | 1622-1 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | $5,346,000.00 |
| | | 1622-10 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1622-11 | Combined | Delaware | Schools | Design | Tree Trench | | TBD | 2028 | |
| | | 1622-12 | Combined | Delaware | Schools | Design | Bumpout, Infiltration/Storage Trench | | TBD | 2028 | |
| | | 1622-13 | Combined | Delaware | Schools | Design | Bumpout, Tree Trench | | TBD | 2028 | |
| | | 1622-2 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1622-3 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1622-4 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1622-5 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1622-6 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1622-7 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1622-8 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| | | 1622-9 | Combined | Delaware | Streets | Design | Tree Trench | | TBD | 2028 | |
| 50367 | 1626 | | Combined,Non-Contributing | Delaware,TTF | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50368 | 1627 | | Combined | Schuylkill | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50369 | 1628 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50370 | 1630 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50371 | 1632 | | Combined | Delaware,TTF | Streets | Design | Rain Garden,Stormwater TreeTrench, | | TBD | 2028 | $3,051,000.00 |
| 50372 | 1634 | | Combined | Cobbs-Darby | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50373 | 1635 | | Combined | Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50375 | 1638 | | Combined | Delaware | Streets | Design | Stormwater Bump-out,Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50376 | 1639 | | Combined | Delaware | Open Space,Streets | Design | Stormwater TreeTrench, | Department of Parks & Recreation (PPR) | TBD | 2028 | TBD |
| 50377 | 1641 | | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50378 | 1642 | | Combined | Delaware | Facilities,Streets | Design | Stormwater Planter,Rain Garden,Stormwater TreeTrench, | Department of Parks & Recreation (PPR) | TBD | 2028 | TBD |
| 50379 | 1645 | | Combined | Delaware,TTF | Open Space,Streets | Design | Infiltration Storage Trench, | Department of Parks & Recreation (PPR) | TBD | 2028 | TBD |
| 50380 | 1647 | | Combined | Delaware | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50381 | 1648 | | Combined | Delaware | Streets | Design | Rain Garden,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50382 | 1649 | | Combined,Separate,Non-Contributing | Schuylkill | Open Space,Streets | Design | Infiltration Storage Trench,Rain Garden,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50384 | 1655 | | Combined | Schuylkill | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50385 | 1656 | | Combined | Delaware | Streets | Design | Stormwater Bump-out,Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50386 | 1659 | | Combined | Cobbs-Darby | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50387 | 1660 | | Combined | TTF | Open Space,Streets | Design | Rain Garden, | Department of Parks & Recreation (PPR) | TBD | 2028 | TBD |
| 50388 | 1662 | | Combined | Delaware | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50389 | 1663 | | Combined,Separate | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50391 | 1665 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50392 | 1669 | | Combined | Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50393 | 1670 | | Combined | Delaware,TTF | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | Streets Department | TBD | 2028 | TBD |
| 50396 | 1674 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50397 | 1675 | | Combined | Delaware | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50398 | 1676 | | Combined | Schuylkill | Open Space | Design | Rain Garden, | | TBD | 2028 | TBD |
| 50400 | 1682 | | Combined | Delaware | Streets | Design | Stormwater Bump-out,Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50401 | 1683 | | Combined | Delaware | Open Space,Streets | Design | Stormwater Bump-out,Infiltration Storage Trench,Stormwater TreeTrench, | Department of Parks & Recreation (PPR) | TBD | 2028 | TBD |
| 50402 | 1684 | | Combined | Cobbs-Darby | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50404 | 1687 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50405 | 1688 | | Combined | Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50406 | 1689 | | Combined | Delaware | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50407 | 1690 | | Combined,Separate | Delaware,Pennypack,TTF | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50408 | 1692 | | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50409 | 1693 | | Combined | Delaware | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | School District of Philadelphia (SDP) | TBD | 2028 | TBD |
| 50411 | 1694 | | Combined | Delaware | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50412 | 1695 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50413 | 1697 | | Combined | Delaware | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50414 | 1698 | | Combined | Cobbs-Darby | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50415 | 1701 | | Combined,Separate | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50416 | 1702 | | Combined | Delaware | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50417 | 1703 | | Combined | Schuylkill | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50418 | 1704 | | Combined | Delaware | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50419 | 1705 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | PennDOT | TBD | 2028 | TBD |
| 50420 | 1706 | | Combined | Schuylkill | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50421 | 1707 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50422 | 1708 | | Combined | Schuylkill | Streets | Design | Rain Garden,Stormwater TreeTrench, | Overbrook High School | TBD | 2028 | TBD |
| 50423 | 1709 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50424 | 1710 | | Combined | Delaware | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50425 | 1712 | | Combined | Delaware | Open Space,Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50426 | 1713 | | Combined | Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50428 | 1718 | | Combined | Delaware | Open Space,Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | Department of Parks & Recreation (PPR) | TBD | 2028 | TBD |
| 50429 | 1720 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50430 | 1721 | | Combined | Schuylkill | Streets | Design | Stormwater Bump-out,Rain Garden,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50431 | 1722 | | Combined | Schuylkill | Streets | Design | Stormwater Bump-out,Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50432 | 1723 | | Combined | Delaware | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50433 | 1724 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50435 | 1731 | | Combined | Delaware,TTF | Streets | Design | Stormwater TreeTrench, | T F DEVELOPMENT LTD | TBD | 2028 | TBD |
| 50436 | 1732 | | Combined | Cobbs-Darby,Schuylkill | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50437 | 1733 | | Combined | Delaware,TTF | Streets | Design | Infiltration Storage Trench,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50438 | 1735 | | Combined | Delaware | Streets | Design | Stormwater Bump-out,Infiltration Storage Trench,Stormwater TreeTrench, | Delaware Valley Regional Planning Commission (DVRPC) | TBD | 2028 | TBD |
| 50440 | 1738 | | Combined | Delaware | Open Space,Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50441 | 1739 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50442 | 1740 | | Combined | Schuylkill | Streets | Design | Stormwater TreeTrench, | Streets Department,Philadelphia City Planning Commission (PCPC) | TBD | 2028 | TBD |
| 50444 | 1741 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50445 | 1742 | | Combined | Delaware,Schuylkill | Streets,Vacant Land | Design | Rain Garden,Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50446 | 1743 | | Combined | Delaware | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 50447 | 1744 | | Combined | Delaware,Schuylkill | Streets | Design | Stormwater TreeTrench, | | TBD | 2028 | TBD |
| 90357 | 1672 | | Combined | Delaware,Schuylkill | Streets | Design | Infiltration Storage Trench, | | TBD | 2028 | TBD |
| 90414 | 1725 | | Combined,Non-Contributing | Cobbs-Darby | Streets | Design | Stormwater TreeTrench, | PennDOT | TBD | 2028 | TBD |
| 90473 | 1734 | | Combined | Cobbs-Darby,Delaware,Schuylkill | Streets | Design | Stormwater Bump-out,Stormwater TreeTrench, | Streets Department | TBD | 2028 | TBD |
| 20485 | 1126 | 1126-1 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | $464,000.00 |
| | | 1126-2 | Combined | Schuylkill | Streets | Contract Management | Infiltration/Storage Trench | | 0.4 | 2027 | |
| | | 1126-3 | Combined | Schuylkill | Streets | Contract Management | Infiltration/Storage Trench | | 0.4 | 2027 | |
| | | 1126-4 | Combined | Schuylkill | Streets | Contract Management | Infiltration/Storage Trench | | 0.4 | 2027 | |
| 20562 | 1395 | 1395-1 | Combined | Schuylkill | Streets | Contract Management | Infiltration/Storage Trench | | 0.5 | 2027 | $310,000.00 |
| | | 1395-2 | Combined | Schuylkill | Streets | Contract Management | Infiltration/Storage Trench | | 0.3 | 2027 | |
| 20573 | 1479 | 1479-1 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.8 | 2027 | $192,000.00 |
| 20575 | 1465 | 1465-1 | Combined | TTF | Streets | Contract Management | Infiltration/Storage Trench | | 0.8 | 2027 | $818,000.00 |
| | | 1465-2 | Combined | TTF | Streets | Contract Management | Tree Trench | | 1.1 | 2027 | |
| | | 1465-3 | Combined | TTF | Streets | Contract Management | Infiltration/Storage Trench | | 1.0 | 2027 | |
| | | 1465-4 | Combined | TTF | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| 20588 | 1487 | 1487-2 | Combined | TTF | Streets | Contract Management | Infiltration/Storage Trench | | 0.8 | 2027 | $294,000.00 |
| | | 1487-3 | Combined | TTF | Streets | Contract Management | Infiltration/Storage Trench | | 0.6 | 2027 | |
| 20604 | 1610 | 1610-1 | Combined | Delaware | Streets | Contract Management | Infiltration/Storage Trench | | 0.9 | 2027 | $568,000.00 |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20609 | 1484 | 1484-1 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | $956,000.00 |
| | | 1484-2 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | |
| | | 1484-3 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | |
| 20614 | 1494 | 1494-1 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.3 | 2027 | $521,000.00 |
| | | 1494-2 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.9 | 2027 | |
| 20624 | 1530 | 1530-1 | Combined | Delaware,TTF | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | $180,000.00 |
| 20625 | 1504 | 1504-1 | Combined | TTF | Open Space | Contract Management | Tree Trench | | 0.7 | 2027 | $155,000.00 |
| 20630 | 1547 | 1547-1 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | $576,000.00 |
| | | 1547-2 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 1.6 | 2027 | |
| 20645 | 1576 | | Combined | Delaware | Streets | Contract Management | Infiltration Storage Trench,Stormwater TreeTrench, | | 3.4 | 2027 | $2,581,000.00 |
| 20680 | 1668 | | Combined | Delaware | Streets | Contract Management | Infiltration Storage Trench,Stormwater TreeTrench, | | 2.7 | 2027 | TBD |
| 40736 | 236 | 236-1 | Combined | Delaware | Streets | Contract Management | Infiltration/Storage Trench, Planter | | 0.3 | 2027 | $643,000.00 |
| | | 236-2 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.3 | 2027 | |
| | | 236-3 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.3 | 2027 | |
| | | 236-4 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 236-5 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | |
| 40860 | 1443 | 1443-1 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | $168,000.00 |
| 40880 | 1591 | 1591-1 | Combined | TTF | Streets | Contract Management | Infiltration/Storage Trench | | 1.0 | 2027 | $126,000.00 |
| 40908 | 1370 | 1370-1 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | $841,000.00 |
| | | 1370-2 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Infiltration/Storage Trench | | 0.3 | 2027 | |
| | | 1370-3 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Infiltration/Storage Trench | | 0.4 | 2027 | |
| | | 1370-4 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Infiltration/Storage Trench | | 0.3 | 2027 | |
| | | 1370-5 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Infiltration/Storage Trench | | 0.3 | 2027 | |
| 40922 | 1238 | 1238-1 | Combined | Delaware | Streets | Contract Management | Infiltration/Storage Trench | | 0.4 | 2027 | $620,000.00 |
| | | 1238-2 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.3 | 2027 | |
| | | 1238-3 | Combined | Delaware | Streets | Contract Management | Infiltration/Storage Trench | | 0.8 | 2027 | |
| 40939 | 1331 | 1331-2 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | $530,000.00 |
| | | 1331-3 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | |
| 40965 | 1369 | 1369-1 | Combined | Schuylkill | Streets | Contract Management | Infiltration/Storage Trench | | 0.4 | 2027 | $141,000.00 |
| 40985 | 1375 | 1375-1 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.3 | 2027 | $524,000.00 |
| | | 1375-2 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.3 | 2027 | |
| | | 1375-3 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | |
| | | 1375-4 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.3 | 2027 | |
| 40989 | 1340 | 1340-1 | Combined | Pennypack | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | $517,000.00 |
| | | 1340-2 | Combined | Pennypack | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | |
| | | 1340-3 | Combined | Pennypack | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1340-4 | Combined | Pennypack | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1340-5 | Combined | Pennypack | Streets | Contract Management | Tree Trench | | 0.3 | 2027 | |
| 40990 | 1355 | 1355-1 | Combined | Cobbs-Darby | Streets | Contract Management | Tree Trench | | 0.3 | 2027 | $555,000.00 |
| | | 1355-2 | Combined | Cobbs-Darby | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1355-3 | Combined | Cobbs-Darby | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| 41049 | 1398 | 1398-1 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | $626,000.00 |
| 41068 | 1407 | 1407-1 | Combined | Cobbs-Darby | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | $94,000.00 |
| 41071 | 1471 | 1471-1 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 0.3 | 2027 | $752,000.00 |
| | | 1471-2 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 1.3 | 2027 | |
| 41080 | 1506 | 1506-1 | Combined | Schuylkill | Streets | Contract Management | Infiltration/Storage Trench | | 0.5 | 2027 | $339,000.00 |
| | | 1506-2 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 41098 | 1518 | 1518-1 | Combined | Cobbs-Darby | Streets | Contract Management | Tree Trench | | 0.8 | 2027 | $1,214,000.00 |
| | | 1518-2 | Combined | Cobbs-Darby | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | |
| | | 1518-3 | Combined | Cobbs-Darby | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | |
| | | 1518-4 | Combined | Cobbs-Darby | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1518-5 | Combined | Cobbs-Darby | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | |
| 41103 | 1492 | 1492-1 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 1.1 | 2027 | $328,000.00 |
| 41122 | 1514 | 1514-1 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.9 | 2027 | $273,000.00 |
| 41124 | 1540 | 1540-1 | Combined | TTF | Streets | Contract Management | Tree Trench | | 0.7 | 2027 | $364,000.00 |
| | | 1540-2 | Combined | TTF | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | |
| 41135 | 1553 | 1553-1 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.7 | 2027 | $513,000.00 |
| | | 1553-2 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1553-3 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | |
| 41137 | 1588 | 1588-1 | Combined | Cobbs-Darby | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | $799,000.00 |
| | | 1588-2 | Combined | Cobbs-Darby | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| 41144 | 1596 | | Combined | Delaware | Streets | Contract Management | Stormwater TreeTrench, | | 2.3 | 2027 | TBD |
| 41149 | 1555 | 1555-1 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | $194,000.00 |
| 41164 | 1653 | 1653-1 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | $1,294,000.00 |
| | | 1653-2 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1653-3 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | |
| | | 1653-4 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1653-5 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.3 | 2027 | |
| 50248 | 1414 | 1414-1 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 0.7 | 2027 | $1,889,000.00 |
| | | 1414-2 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | |
| | | 1414-3 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 1.3 | 2027 | |
| | | 1414-4 | Combined | Schuylkill | Streets | Contract Management | Bumpout, Tree Trench | | 0.8 | 2027 | |
| | | 1414-5 | Combined | Schuylkill | Streets | Contract Management | Bumpout, Tree Trench | | 0.9 | 2027 | |
| 50253 | 1421 | 1421-1 | Combined | Delaware,Schuylkill | Streets | Contract Management | Infiltration/Storage Trench | Philadelphia Redevelopment Authority (PRA) | 0.5 | 2027 | $1,008,000.00 |
| | | 1421-2 | Combined | Delaware,Schuylkill | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | |
| | | 1421-3 | Combined | Delaware,Schuylkill | Streets | Contract Management | Tree Trench | | 0.3 | 2027 | |
| | | 1421-4 | Combined | Delaware,Schuylkill | Streets | Contract Management | Tree Trench | | 0.2 | 2027 | |
| 50255 | 1425 | 1425-1 | Combined | Cobbs-Darby | Streets | Contract Management | Infiltration/Storage Trench, Rain Garden | | 1.4 | 2027 | $3,270,000.00 |
| | | 1425-2 | Combined | Cobbs-Darby | Streets | Contract Management | Infiltration/Storage Trench, Rain Garden | | 0.5 | 2027 | |
| | | 1425-3 | Combined | Cobbs-Darby | Streets | Contract Management | Infiltration/Storage Trench, Rain Garden | | 0.9 | 2027 | |
| | | 1425-4 | Combined | Cobbs-Darby | Streets | Contract Management | Infiltration/Storage Trench, Rain Garden | | 1.1 | 2027 | |
| | | 1425-5 | Combined | Cobbs-Darby | Streets | Contract Management | Infiltration/Storage Trench, Rain Garden | | 1.1 | 2027 | |
| | | 1425-6 | Combined | Cobbs-Darby | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | |
| | | 1425-7 | Combined | Cobbs-Darby | Streets | Contract Management | Bumpout, Infiltration/Storage Trench | | 1.8 | 2027 | |
| | | 1425-8 | Combined | Cobbs-Darby | Streets | Contract Management | Bumpout, Tree Trench | | 2.1 | 2027 | |
| | | 1425-9 | Combined | Cobbs-Darby | Streets | Contract Management | Tree Trench | | 0.3 | 2027 | |
| 50257 | 1428 | 1428-1 | Combined | Delaware | Facilities | Contract Management | Infiltration/Storage Trench, Rain Garden | Department of Parks & Recreation (PPR) | 0.9 | 2027 | $340,000.00 |
| 50259 | 1431 | 1431-3 | Combined | Delaware | Open Space | Contract Management | Tree Trench | Commerce Department,Streets Department | 1.4 | 2027 | $1,184,000.00 |
| | | 1431-4 | Combined | Delaware | Open Space | Contract Management | Tree Trench | | 0.4 | 2027 | |
| | | 1431-5 | Combined | Delaware | Open Space | Contract Management | Tree Trench | | 0.6 | 2027 | |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50270 | 1445 | 1445-1 | Combined | Delaware | Open Space | Contract Management | Infiltration/Storage Trench, Rain Garden | Streets Department,Department of Public Property (DPP),Neighborhood Gardens Trust (NGT) | 1.0 | 2027 | $1,154,000.00 |
| | | 1445-2 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.3 | 2027 | |
| | | 1445-3 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | |
| | | 1445-4 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | |
| 50287 | 1474 | 1474-1 | Combined | Schuylkill | Streets | Contract Management | Rain Garden, Tree Trench | | 3.5 | 2027 | $2,455,000.00 |
| | | 1474-2 | Combined | Schuylkill | Streets | Contract Management | Infiltration/Storage Trench, Tree Trench | | 0.7 | 2027 | |
| | | 1474-3 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1474-4 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | |
| 50300 | 1498 | 1498-1 | Combined | Delaware | Open Space | Contract Management | Tree Trench | | 0.5 | 2027 | $2,242,000.00 |
| | | 1498-2 | Combined | Delaware | Open Space | Contract Management | Bumpout, Tree Trench | | 0.9 | 2027 | |
| | | 1498-3 | Combined | Delaware | Open Space | Contract Management | Bumpout, Infiltration/Storage Trench | | 0.4 | 2027 | |
| | | 1498-4 | Combined | Delaware | Open Space | Contract Management | Bumpout, Tree Trench | | 1.0 | 2027 | |
| | | 1498-5 | Combined | Delaware | Open Space | Contract Management | Bumpout, Infiltration/Storage Trench | | 0.5 | 2027 | |
| | | 1498-6 | Combined | Delaware | Open Space | Contract Management | Tree Trench | | 0.4 | 2027 | |
| | | 1498-7 | Combined | Delaware | Open Space | Contract Management | Tree Trench | | 1.0 | 2027 | |
| 50304 | 1503 | 1503-1 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.8 | 2027 | $3,272,000.00 |
| | | 1503-10 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1503-11 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Bumpout, Tree Trench | | 0.9 | 2027 | |
| | | 1503-12 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Bumpout, Tree Trench | | 0.6 | 2027 | |
| | | 1503-2 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | |
| | | 1503-3 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.8 | 2027 | |
| | | 1503-4 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | |
| | | 1503-5 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.9 | 2027 | |
| | | 1503-6 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.8 | 2027 | |
| | | 1503-7 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1503-8 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1503-9 | Combined | Cobbs-Darby,Schuylkill | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| 50310 | 1513 | 1513-1 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 0.7 | 2027 | $1,188,000.00 |
| | | 1513-2 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | |
| | | 1513-3 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | |
| | | 1513-4 | Combined | Schuylkill | Streets | Contract Management | Infiltration/Storage Trench | | 0.3 | 2027 | |
| | | 1513-5 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 0.3 | 2027 | |
| | | 1513-6 | Combined | Schuylkill | Streets | Contract Management | Tree Trench | | 0.9 | 2027 | |
| 50313 | 1519 | 1519-1 | Combined | Delaware | Streets | Contract Management | Bumpout, Infiltration/Storage Trench | | 0.5 | 2027 | $3,328,000.00 |
| | | 1519-10 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1519-11 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.9 | 2027 | |
| | | 1519-12 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | |
| | | 1519-13 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.8 | 2027 | |
| | | 1519-2 | Combined | Delaware | Streets | Contract Management | Bumpout, Tree Trench | | 0.6 | 2027 | |
| | | 1519-3 | Combined | Delaware | Streets | Contract Management | Bumpout, Tree Trench | | 1.5 | 2027 | |
| | | 1519-4 | Combined | Delaware | Streets | Contract Management | Bumpout, Tree Trench | | 0.6 | 2027 | |
| | | 1519-5 | Combined | Delaware | Streets | Contract Management | Bumpout, Tree Trench | | 0.6 | 2027 | |
| | | 1519-6 | Combined | Delaware | Streets | Contract Management | Bumpout, Infiltration/Storage Trench | | 0.6 | 2027 | |
| | | 1519-7 | Combined | Delaware | Streets | Contract Management | Bumpout, Tree Trench | | 0.6 | 2027 | |
| | | 1519-8 | Combined | Delaware | Streets | Contract Management | Bumpout, Tree Trench | | 0.6 | 2027 | |
| | | 1519-9 | Combined | Delaware | Streets | Contract Management | Bumpout, Tree Trench | | 0.5 | 2027 | |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50321 | 1537 | 1537-1 | Combined | TTF | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | $1,624,000.00 |
| | | 1537-2 | Combined | TTF | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1537-3 | Combined | TTF | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | |
| | | 1537-4 | Combined | TTF | Streets | Contract Management | Tree Trench | | 0.4 | 2027 | |
| | | 1537-5 | Combined | TTF | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1537-6 | Combined | TTF | Streets | Contract Management | Infiltration/Storage Trench | | 0.5 | 2027 | |
| | | 1537-7 | Combined | TTF | Streets | Contract Management | Infiltration/Storage Trench | | 0.5 | 2027 | |
| 50338 | 1577 | 1577-1 | Combined | Delaware,Pennypack | Open Space | Contract Management | Tree Trench | | 1.2 | 2027 | $3,844,000.00 |
| | | 1577-2 | Combined | Delaware,Pennypack | Open Space | Contract Management | Infiltration/Storage Trench | | 1.7 | 2027 | |
| | | 1577-3 | Combined | Delaware,Pennypack | Open Space | Contract Management | Infiltration/Storage Trench | | 1.7 | 2027 | |
| | | 1577-4 | Combined | Delaware,Pennypack | Open Space | Contract Management | Infiltration/Storage Trench | | 1.2 | 2027 | |
| | | 1577-5 | Combined | Delaware,Pennypack | Open Space | Contract Management | Tree Trench | | 0.6 | 2027 | |
| | | 1577-6 | Combined | Delaware,Pennypack | Open Space | Contract Management | Tree Trench | | 0.8 | 2027 | |
| | | 1577-7 | Combined | Delaware,Pennypack | Open Space | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1577-8 | Combined | Delaware,Pennypack | Open Space | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1577-9 | Combined | Delaware,Pennypack | Open Space | Contract Management | Tree Trench | | 0.5 | 2027 | |
| 50344 | 1584 | 1584-1 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 1.4 | 2027 | $3,446,000.00 |
| | | 1584-10 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 4.1 | 2027 | |
| | | 1584-2 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.7 | 2027 | |
| | | 1584-3 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.7 | 2027 | |
| | | 1584-4 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.7 | 2027 | |
| | | 1584-5 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.8 | 2027 | |
| | | 1584-6 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 1.3 | 2027 | |
| | | 1584-7 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 1.0 | 2027 | |
| | | 1584-8 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 1.0 | 2027 | |
| | | 1584-9 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 1.0 | 2027 | |
| 50352 | 1600 | 1600-1 | Combined | Delaware | Open Space | Contract Management | Tree Trench | | 1.4 | 2027 | $2,893,000.00 |
| | | 1600-2 | Combined | Delaware | Open Space | Contract Management | Tree Trench | | 1.1 | 2027 | |
| | | 1600-3 | Combined | Delaware | Open Space | Contract Management | Bumpout, Tree Trench | | 1.0 | 2027 | |
| | | 1600-4 | Combined | Delaware | Open Space | Contract Management | Bumpout, Tree Trench | | 1.2 | 2027 | |
| | | 1600-5 | Combined | Delaware | Open Space | Contract Management | Bumpout, Tree Trench | | 1.4 | 2027 | |
| | | 1600-6 | Combined | Delaware | Open Space | Contract Management | Infiltration/Storage Trench | | 1.0 | 2027 | |
| | | 1600-7 | Combined | Delaware | Open Space | Contract Management | Tree Trench | | 0.8 | 2027 | |
| | | 1600-8 | Combined | Delaware | Open Space | Contract Management | Tree Trench | | 1.1 | 2027 | |
| 50364 | 1619 | 1619-1 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.9 | 2027 | $4,790,000.00 |
| | | 1619-10 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.8 | 2027 | |
| | | 1619-11 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.9 | 2027 | |
| | | 1619-12 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 2.3 | 2027 | |
| | | 1619-13 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.8 | 2027 | |
| | | 1619-2 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.9 | 2027 | |
| | | 1619-3 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 1.3 | 2027 | |
| | | 1619-4 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.8 | 2027 | |
| | | 1619-5 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 1.0 | 2027 | |
| | | 1619-6 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.9 | 2027 | |
| | | 1619-7 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.6 | 2027 | |
| | | 1619-8 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| | | 1619-9 | Combined | Delaware | Streets | Contract Management | Tree Trench | | 0.5 | 2027 | |
| 64084 | 1699 | 1699-1 | Combined | Schuylkill | Facilities | Contract Management | Infiltration/Storage Trench | | 2.0 | 2027 | TBD |
| 20464 | 1381 | 1381-1 | Combined | TTF,Wissahickon | Streets | Construction | Infiltration/Storage Trench | | 0.8 | 2026 | $329,000.00 |
| | | 1381-2 | Combined | TTF,Wissahickon | Streets | Construction | Infiltration/Storage Trench | | 0.4 | 2026 | |
| 20472 | 1040 | 1040-1 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.4 | 2026 | $344,000.00 |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20474 | 1243 | 1243-1 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.6 | 2026 | $1,659,000.00 |
| | | 1243-2 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.6 | 2026 | |
| | | 1243-4 | Combined | Delaware,TTF | Streets | Construction | Infiltration/Storage Trench | | 0.2 | 2026 | |
| | | 1243-5 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| | | 1243-6 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| | | 1243-7 | Combined | Delaware,TTF | Streets | Construction | Infiltration/Storage Trench | | 0.7 | 2026 | |
| | | 1243-8 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| 20487 | 1133 | 1133-1 | Combined | Schuylkill | Streets | Construction | Infiltration/Storage Trench | | 0.5 | 2026 | $591,000.00 |
| | | 1133-2 | Combined | Schuylkill | Streets | Construction | Infiltration/Storage Trench | | 0.6 | 2026 | |
| 20517 | 1418 | 1418-1 | Combined | TTF | Streets | Construction | Tree Trench | | 0.7 | 2026 | $740,000.00 |
| | | 1418-2 | Combined | TTF | Streets | Construction | Infiltration/Storage Trench | | 1.0 | 2026 | |
| | | 1418-3 | Combined | TTF | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| 20536 | 1330 | 1330-1 | Combined | TTF | Streets | Construction | Infiltration/Storage Trench | | 0.7 | 2026 | $1,071,000.00 |
| | | 1330-2 | Combined | TTF | Streets | Construction | Infiltration/Storage Trench | | 0.3 | 2026 | |
| | | 1330-3 | Combined | TTF | Streets | Construction | Infiltration/Storage Trench | | 0.7 | 2026 | |
| | | 1330-4 | Combined | TTF | Streets | Construction | Infiltration/Storage Trench | | 0.8 | 2026 | |
| | | 1330-5 | Combined | TTF | Streets | Construction | Infiltration/Storage Trench | | 0.8 | 2026 | |
| 20552 | 1489 | 1489-1 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.2 | 2026 | $1,447,000.00 |
| | | 1489-2 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.9 | 2026 | |
| | | 1489-3 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.4 | 2026 | |
| | | 1489-4 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| 20558 | 1376 | 1376-1 | Combined | TTF | Streets | Construction | Infiltration/Storage Trench | | 0.7 | 2026 | $213,000.00 |
| 20564 | 1419 | 1419-1 | Combined | TTF | Facilities | Construction | Infiltration/Storage Trench | | 0.6 | 2026 | $1,643,000.00 |
| | | 1419-2 | Combined | TTF | Facilities | Construction | Infiltration/Storage Trench | | 0.6 | 2026 | |
| | | 1419-3 | Combined | TTF | Facilities | Construction | Infiltration/Storage Trench | | 0.5 | 2026 | |
| | | 1419-4 | Combined | TTF | Facilities | Construction | Infiltration/Storage Trench | | 1.0 | 2026 | |
| | | 1419-5 | Combined | TTF | Facilities | Construction | Infiltration/Storage Trench | | 0.6 | 2026 | |
| | | 1419-6 | Combined | TTF | Vacant Land | Construction | Infiltration/Storage Trench | | 0.4 | 2026 | |
| | | 1419-7 | Combined | TTF | Industry & Business | Construction | Infiltration/Storage Trench | | 0.7 | 2026 | |
| 20578 | 1542 | 1542-1 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.8 | 2026 | $279,000.00 |
| 20583 | 1470 | 1470-1 | Combined | TTF | Facilities | Construction | Infiltration/Storage Trench | | 0.3 | 2026 | $1,277,000.00 |
| | | 1470-2 | Combined | TTF | Schools | Construction | Infiltration/Storage Trench | | 0.7 | 2026 | |
| | | 1470-3 | Combined | TTF | Facilities | Construction | Infiltration/Storage Trench | | 0.5 | 2026 | |
| | | 1470-4 | Combined | TTF | Facilities | Construction | Infiltration/Storage Trench | | 0.5 | 2026 | |
| | | 1470-5 | Combined | TTF | Facilities | Construction | Infiltration/Storage Trench | | 0.7 | 2026 | |
| 20587 | 1589 | 1589-1 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.4 | 2026 | $819,000.00 |
| | | 1589-2 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.8 | 2026 | |
| 20599 | 1501 | 1501-1 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.7 | 2026 | $516,000.00 |
| | | 1501-2 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.8 | 2026 | |
| 20601 | 1464 | 1464-1 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.5 | 2026 | $290,000.00 |
| 20619 | 1485 | 1485-1 | Combined | Delaware,Pennypack | Streets | Construction | Tree Trench | | 0.5 | 2026 | $1,566,000.00 |
| | | 1485-2 | Combined | Delaware,Pennypack | Streets | Construction | Tree Trench | | 0.7 | 2026 | |
| | | 1485-3 | Combined | Delaware,Pennypack | Streets | Construction | Tree Trench | | 0.9 | 2026 | |
| | | 1485-4 | Combined | Delaware,Pennypack | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| 40899 | 1219 | 1219-1 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.5 | 2026 | $277,000.00 |
| 40904 | 1134 | 1134-1 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.3 | 2026 | $288,000.00 |
| | | 1134-2 | Combined | Delaware | Streets | Construction | Infiltration/Storage Trench | | 0.5 | 2026 | |
| 40933 | 1521 | 1521-1 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.6 | 2026 | $646,000.00 |
| | | 1521-2 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.9 | 2026 | |
| 40951 | 1280 | 1280-1 | Combined | Schuylkill | Streets | Construction | Infiltration/Storage Trench | | 0.5 | 2026 | $273,000.00 |
| 41008 | 1402 | 1402-1 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.3 | 2026 | $378,000.00 |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 41070 | 1435 | 1435-1 | Combined | Delaware,Schuylkill | Streets | Construction | Tree Trench | Delaware Valley Regional Planning Commission (DVRPC),Philadelphia Free Library | 0.5 | 2026 | $805,000.00 |
| | | 1435-2 | Combined | Delaware,Schuylkill | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1435-3 | Combined | Delaware,Schuylkill | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| 41105 | 1497 | 1497-1 | Combined | Cobbs-Darby | Streets | Construction | Tree Trench | | 0.5 | 2026 | $306,000.00 |
| 50126 | 1088 | 1088-1 | Combined | TTF | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.8 | 2026 | $975,000.00 |
| | | 1088-2 | Combined | TTF | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.6 | 2026 | |
| | | 1088-4 | Combined | TTF | Streets | Construction | Infiltration/Storage Trench, Planter | | 1.2 | 2026 | |
| | 1262 | 1262-1 | Combined | Delaware | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.8 | 2026 | |
| | | 1262-2 | Combined | Delaware | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.7 | 2026 | |
| | | 1262-3 | Combined | Delaware | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 1.2 | 2026 | |
| 50128 | 1090 | 1090-12 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.3 | 2026 | $4,393,000.00 |
| | | 1090-13 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| | | 1090-7 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1090-8 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1090-9 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| | 1107 | 1107-2 | Combined | Delaware | Streets | Construction | Rain Garden, Tree Trench | Philadelphia Department of Parks & Recreation | 0.8 | 2026 | |
| | 1269 | 1269-1 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1269-2 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| 50139 | 1147 | 1147-1 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 0.4 | 2026 | $3,404,000.00 |
| | | 1147-10 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.3 | 2026 | |
| | | 1147-11 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.3 | 2026 | |
| | | 1147-2 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Infiltration/Storage Trench, Rain Garden | | 4.8 | 2026 | |
| | | 1147-3 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.4 | 2026 | |
| | | 1147-4 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.3 | 2026 | |
| | | 1147-8 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| | | 1147-9 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.4 | 2026 | |
| 50168 | 1271 | 1271-5 | Combined | Cobbs-Darby | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.3 | 2026 | $1,634,000.00 |
| 50176 | 1283 | 1283-1 | Combined | Schuylkill | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.5 | 2026 | $4,433,000.00 |
| | | 1283-10 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.7 | 2026 | |
| | | 1283-11 | Combined | Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 0.3 | 2026 | |
| | | 1283-2 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| | | 1283-3 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| | | 1283-4 | Combined | Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 0.5 | 2026 | |
| | | 1283-5 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.7 | 2026 | |
| | | 1283-6 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1283-7 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| 50190 | 1308 | 1308-2 | Combined | Schuylkill | Streets | Construction | Infiltration/Storage Trench | | 0.9 | 2026 | $1,201,000.00 |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50198 | 1327 | 1327-1 | Combined | Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 0.8 | 2026 | $3,123,000.00 |
| | | 1327-2 | Combined | Schuylkill | Streets | Construction | Infiltration/Storage Trench, Planter | | 0.6 | 2026 | |
| | | 1327-3 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1327-4 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| | | 1327-5 | Combined | Schuylkill | Streets | Construction | Infiltration/Storage Trench, Planter, Rain Garden | | 1.2 | 2026 | |
| | | 1327-6 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.6 | 2026 | |
| | | 1327-7 | Combined | Schuylkill | Streets | Construction | Infiltration/Storage Trench, Planter | | 0.3 | 2026 | |
| | | 1327-8 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| 50199 | 1328 | 1328-10 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.5 | 2026 | $2,347,000.00 |
| | | 1328-3 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.8 | 2026 | |
| | | 1328-4 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1328-5 | Combined | Schuylkill | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 1.0 | 2026 | |
| | | 1328-6 | Combined | Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 0.6 | 2026 | |
| | | 1328-8 | Combined | Schuylkill | Streets | Construction | Infiltration/Storage Trench, Planter | | 0.4 | 2026 | |
| | | 1328-9 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| 50206 | 1343 | 1343-7 | Combined | Schuylkill | Streets | Construction | Bumpout, Infiltration/Storage Trench | Drexel University | 1.6 | 2026 | $2,462,000.00 |
| 50220 | 1361 | 1361-1 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 1.8 | 2026 | $3,352,000.00 |
| | | 1361-10 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Infiltration/Storage Trench, Tree Trench | | 1.9 | 2026 | |
| | | 1361-11 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 1.6 | 2026 | |
| | | 1361-2 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 1.5 | 2026 | |
| | | 1361-3 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 1.3 | 2026 | |
| | | 1361-4 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 1.0 | 2026 | |
| | | 1361-5 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.5 | 2026 | |
| | | 1361-6 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.4 | 2026 | |
| | | 1361-7 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.8 | 2026 | |
| | | 1361-8 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| | | 1361-9 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Infiltration/Storage Trench | | 0.5 | 2026 | |
| 50243 | 1405 | 1405-1 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.8 | 2026 | $3,570,000.00 |
| | | 1405-10 | Combined | Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 0.7 | 2026 | |
| | | 1405-11 | Combined | Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 0.4 | 2026 | |
| | | 1405-12 | Combined | Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 0.7 | 2026 | |
| | | 1405-2 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.8 | 2026 | |
| | | 1405-3 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.8 | 2026 | |
| | | 1405-4 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 1.2 | 2026 | |
| | | 1405-5 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.9 | 2026 | |
| | | 1405-6 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| | | 1405-7 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.8 | 2026 | |
| | | 1405-8 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.9 | 2026 | |
| | | 1405-9 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.9 | 2026 | |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50246 | 1412 | 1412-1 | Combined | Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 1.9 | 2026 | $3,775,000.00 |
| | | 1412-10 | Combined | Schuylkill | Streets | Construction | Infiltration/Storage Trench | | 1.0 | 2026 | |
| | | 1412-11 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| | | 1412-12 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.6 | 2026 | |
| | | 1412-2 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.9 | 2026 | |
| | | 1412-3 | Combined | Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 1.7 | 2026 | |
| | | 1412-4 | Combined | Schuylkill | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.6 | 2026 | |
| | | 1412-5 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.9 | 2026 | |
| | | 1412-6 | Combined | Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 1.2 | 2026 | |
| | | 1412-7 | Combined | Schuylkill | Streets | Construction | Bumpout, Infiltration/Storage Trench, Tree Trench | | 0.9 | 2026 | |
| | | 1412-8 | Combined | Schuylkill | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 1.3 | 2026 | |
| | | 1412-9 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 1.1 | 2026 | |
| 50260 | 1433 | 1433-1 | Combined | Cobbs-Darby | Open Space | Construction | Infiltration/Storage Trench, Rain Garden | | 4.9 | 2026 | $4,339,000.00 |
| | | 1433-2 | Combined | Cobbs-Darby | Open Space | Construction | Infiltration/Storage Trench, Rain Garden | | 3.3 | 2026 | |
| | | 1433-3 | Combined | Cobbs-Darby | Open Space | Construction | Infiltration/Storage Trench, Rain Garden | | 2.4 | 2026 | |
| | | 1433-4 | Combined | Cobbs-Darby | Streets | Construction | Tree Trench | | 1.3 | 2026 | |
| | | 1433-6 | Combined | Cobbs-Darby | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1433-7 | Combined | Cobbs-Darby | Streets | Construction | Infiltration/Storage Trench | | 0.4 | 2026 | |
| | | 1433-8 | Combined | Cobbs-Darby | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| | | 1433-9 | Combined | Cobbs-Darby | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| 50263 | 1437 | 1437-1 | Combined | Delaware,Pennypack | Streets | Construction | Tree Trench | | 0.4 | 2026 | $5,857,000.00 |
| | | 1437-2 | Combined | Delaware,Pennypack | Streets | Construction | Bumpout, Tree Trench | | 1.0 | 2026 | |
| | | 1437-3 | Combined | Delaware,Pennypack | Streets | Construction | Bumpout, Tree Trench | | 1.7 | 2026 | |
| | | 1437-4 | Combined | Delaware,Pennypack | Streets | Construction | Bumpout, Tree Trench | | 1.5 | 2026 | |
| | | 1437-5 | Combined | Delaware,Pennypack | Streets | Construction | Bumpout, Tree Trench | | 1.4 | 2026 | |
| | | 1437-6 | Combined | Delaware,Pennypack | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 1.4 | 2026 | |
| | | 1437-7 | Combined | Delaware,Pennypack | Streets | Construction | Tree Trench | | 0.8 | 2026 | |
| | | 1437-8 | Combined | Delaware,Pennypack | Streets | Construction | Tree Trench | | 0.8 | 2026 | |
| | | 1437-9 | Combined | Delaware,Pennypack | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.5 | 2026 | |
| 50266 | 1440 | 1440-1 | Combined | TTF | Open Space | Construction | Infiltration/Storage Trench | Department of Parks & Recreation (PPR) | 3.2 | 2026 | $3,433,000.00 |
| | | 1440-2 | Combined | TTF | Open Space | Construction | Infiltration/Storage Trench | | 4.5 | 2026 | |
| | | 1440-3 | Combined | TTF | Streets | Construction | Bumpout, Tree Trench | | 1.0 | 2026 | |
| | | 1440-4 | Combined | TTF | Streets | Construction | Bumpout, Tree Trench | | 1.2 | 2026 | |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50268 | 1442 | 1442-1 | Combined | TTF | Streets | Construction | Inlet Disconnection | PennDOT | 1.3 | 2026 | TBD |
| | | 1442-10 | Combined | TTF | Streets | Construction | Inlet Disconnection | | 0.3 | 2026 | |
| | | 1442-11 | Combined | TTF | Streets | Construction | Inlet Disconnection | | 0.1 | 2026 | |
| | | 1442-12 | Combined | TTF | Streets | Construction | Inlet Disconnection | | 0.7 | 2026 | |
| | | 1442-13 | Combined | TTF | Streets | Construction | Inlet Disconnection | | 0.5 | 2026 | |
| | | 1442-2 | Combined | TTF | Streets | Construction | Inlet Disconnection | | 1.1 | 2026 | |
| | | 1442-3 | Combined | TTF | Streets | Construction | Inlet Disconnection | | 0.7 | 2026 | |
| | | 1442-4 | Combined | TTF | Streets | Construction | Inlet Disconnection | | 0.5 | 2026 | |
| | | 1442-5 | Combined | TTF | Streets | Construction | Inlet Disconnection | | 0.2 | 2026 | |
| | | 1442-6 | Combined | TTF | Streets | Construction | Inlet Disconnection | | 0.5 | 2026 | |
| | | 1442-7 | Combined | TTF | Streets | Construction | Inlet Disconnection | | 0.2 | 2026 | |
| | | 1442-8 | Combined | TTF | Streets | Construction | Inlet Disconnection | | 0.6 | 2026 | |
| | | 1442-9 | Combined | TTF | Streets | Construction | Inlet Disconnection | | 0.7 | 2026 | |
| 50274 | 1449 | 1449-1 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 1.3 | 2026 | $5,999,000.00 |
| | | 1449-10 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 0.7 | 2026 | |
| | | 1449-11 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 1.0 | 2026 | |
| | | 1449-12 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 1.3 | 2026 | |
| | | 1449-13 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.4 | 2026 | |
| | | 1449-2 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 0.6 | 2026 | |
| | | 1449-3 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 0.6 | 2026 | |
| | | 1449-4 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 1.2 | 2026 | |
| | | 1449-5 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 1.0 | 2026 | |
| | | 1449-6 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 1.2 | 2026 | |
| | | 1449-7 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 0.6 | 2026 | |
| | | 1449-8 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 1.2 | 2026 | |
| | | 1449-9 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 0.8 | 2026 | |
| 50276 | 1454 | 1454-1 | Combined | Delaware,Pennypack | Streets | Construction | Tree Trench | | 0.7 | 2026 | $1,312,000.00 |
| | | 1454-2 | Combined | Delaware,Pennypack | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1454-3 | Combined | Delaware,Pennypack | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| | | 1454-4 | Combined | Delaware,Pennypack | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1454-5 | Combined | Delaware,Pennypack | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1454-6 | Combined | Delaware,Pennypack | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| 50283 | 1467 | 1467-1 | Combined | TTF | Open Space | Construction | Infiltration/Storage Trench, Rain Garden | Department of Parks & Recreation (PPR) | 11.2 | 2026 | $4,885,000.00 |
| | | 1467-2 | Combined | TTF | Open Space | Construction | Bumpout, Infiltration/Storage Trench | | 1.1 | 2026 | |
| | | 1467-3 | Combined | TTF | Open Space | Construction | Tree Trench | | 1.4 | 2026 | |
| 50292 | 1480 | 1480-1 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Infiltration/Storage Trench | | 1.0 | 2026 | $4,744,000.00 |
| | | 1480-2 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1480-3 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 0.7 | 2026 | |
| | | 1480-4 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 1.9 | 2026 | |
| | | 1480-5 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 1.0 | 2026 | |
| | | 1480-6 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| | | 1480-7 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 1.0 | 2026 | |
| | | 1480-8 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 1.5 | 2026 | |
| | | 1480-9 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Bumpout, Tree Trench | | 2.2 | 2026 | |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50296 | 1486 | 1486-1 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.9 | 2026 | $2,151,000.00 |
| | | 1486-2 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| | | 1486-3 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1486-4 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1486-5 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.6 | 2026 | |
| | | 1486-6 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| | | 1486-7 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.7 | 2026 | |
| | | 1486-8 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.8 | 2026 | |
| 50297 | 1490 | 1490-1 | Combined | Delaware | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 3.0 | 2026 | $4,888,000.00 |
| | | 1490-10 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1490-11 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| | | 1490-2 | Combined | Delaware | Streets | Construction | Bumpout, Tree Trench | | 2.2 | 2026 | |
| | | 1490-3 | Combined | Delaware | Streets | Construction | Bumpout, Tree Trench | | 2.0 | 2026 | |
| | | 1490-4 | Combined | Delaware | Streets | Construction | Bumpout, Tree Trench | | 1.8 | 2026 | |
| | | 1490-5 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.7 | 2026 | |
| | | 1490-6 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.4 | 2026 | |
| | | 1490-7 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.8 | 2026 | |
| | | 1490-8 | Combined | Delaware | Streets | Construction | Bumpout, Tree Trench | | 1.2 | 2026 | |
| | | 1490-9 | Combined | Delaware | Streets | Construction | Bumpout, Tree Trench | | 1.5 | 2026 | |
| 50299 | 1495 | 1495-10 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 0.6 | 2026 | $3,995,000.00 |
| | | 1495-11 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 0.7 | 2026 | |
| | | 1495-12 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 1.0 | 2026 | |
| | | 1495-9 | Combined | Cobbs-Darby,Schuylkill | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| 50302 | 1500 | 1500-1 | Combined | Delaware,TTF | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.9 | 2026 | $3,591,000.00 |
| | | 1500-2 | Combined | Delaware,TTF | Streets | Construction | Bumpout, Tree Trench | | 1.4 | 2026 | |
| | | 1500-3 | Combined | Delaware,TTF | Streets | Construction | Bumpout, Tree Trench | | 1.4 | 2026 | |
| | | 1500-4 | Combined | Delaware,TTF | Streets | Construction | Bumpout, Tree Trench | | 1.3 | 2026 | |
| | | 1500-5 | Combined | Delaware,TTF | Streets | Construction | Bumpout, Tree Trench | | 1.7 | 2026 | |
| | | 1500-6 | Combined | Delaware,TTF | Streets | Construction | Bumpout, Tree Trench | | 1.5 | 2026 | |
| | | 1500-7 | Combined | Delaware,TTF | Streets | Construction | Bumpout, Tree Trench | | 1.4 | 2026 | |
| | | 1500-8 | Combined | Delaware,TTF | Streets | Construction | Bumpout, Tree Trench | | 1.5 | 2026 | |
| 50309 | 1512 | 1512-1 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.6 | 2026 | $3,793,000.00 |
| | | 1512-10 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| | | 1512-2 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.3 | 2026 | |
| | | 1512-3 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.1 | 2026 | |
| | | 1512-4 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.4 | 2026 | |
| | | 1512-5 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.7 | 2026 | |
| | | 1512-6 | Combined | Delaware | Streets | Construction | Infiltration/Storage Trench | | 0.8 | 2026 | |
| | | 1512-7 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1512-8 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| | | 1512-9 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.5 | 2026 | |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50312 | 1517 | 1517-1 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.8 | 2026 | $4,602,000.00 |
| | | 1517-10 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.6 | 2026 | |
| | | 1517-11 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1517-12 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.8 | 2026 | |
| | | 1517-13 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| | | 1517-14 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| | | 1517-2 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 1.2 | 2026 | |
| | | 1517-3 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.9 | 2026 | |
| | | 1517-4 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| | | 1517-5 | Combined | Delaware,TTF | Streets | Construction | Infiltration/Storage Trench, Tree Trench | | 0.8 | 2026 | |
| | | 1517-6 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1517-7 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| | | 1517-8 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| | | 1517-9 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| 50314 | 1522 | 1522-1 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.6 | 2026 | $3,532,000.00 |
| | | 1522-10 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 1.4 | 2026 | |
| | | 1522-11 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| | | 1522-12 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.6 | 2026 | |
| | | 1522-2 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.8 | 2026 | |
| | | 1522-3 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 1.1 | 2026 | |
| | | 1522-4 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.9 | 2026 | |
| | | 1522-5 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1522-6 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| | | 1522-7 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.7 | 2026 | |
| | | 1522-8 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.8 | 2026 | |
| | | 1522-9 | Combined | Schuylkill | Streets | Construction | Tree Trench | | 0.6 | 2026 | |
| 50317 | 1527 | 1527-1 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.5 | 2026 | $2,834,000.00 |
| | | 1527-2 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.6 | 2026 | |
| | | 1527-3 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 0.6 | 2026 | |
| | | 1527-4 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 1.7 | 2026 | |
| | | 1527-5 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 1.0 | 2026 | |
| | | 1527-7 | Combined | Delaware,TTF | Streets | Construction | Tree Trench | | 1.1 | 2026 | |
| 50327 | 1556 | 1556-1 | Combined | TTF | Streets | Construction | Tree Trench | | 0.3 | 2026 | $3,238,000.00 |
| | | 1556-2 | Combined | TTF | Streets | Construction | Tree Trench | | 0.7 | 2026 | |
| | | 1556-3 | Combined | TTF | Streets | Construction | Tree Trench | | 0.6 | 2026 | |
| | | 1556-4 | Combined | TTF | Streets | Construction | Tree Trench | | 1.7 | 2026 | |
| | | 1556-5 | Combined | TTF | Streets | Construction | Tree Trench | | 1.3 | 2026 | |
| | | 1556-6 | Combined | TTF | Streets | Construction | Tree Trench | | 1.5 | 2026 | |
| | | 1556-7 | Combined | TTF | Streets | Construction | Tree Trench | | 1.1 | 2026 | |
| | | 1556-8 | Combined | TTF | Streets | Construction | Tree Trench | | 0.6 | 2026 | |
| 50330 | 1561 | 1561-1 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.8 | 2026 | $3,536,000.00 |
| | | 1561-2 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| | | 1561-3 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.0 | 2026 | |
| | | 1561-4 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.8 | 2026 | |
| | | 1561-5 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.8 | 2026 | |
| | | 1561-6 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.0 | 2026 | |
| | | 1561-7 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.9 | 2026 | |
| | | 1561-8 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| | | 1561-9 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.3 | 2026 | |

| Work Number | Project ID | System Number | Sewer Type | Watershed | Program | Status | Estimated SMP Type(s) | Potential Partner(s) | Greened Acres (acre-inches) | Completion Date Estimate | Estimated Green Construction Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50340 | 1579 | 1579-10 | Combined | Delaware | Streets | Construction | Bumpout, Tree Trench | | 2.5 | 2026 | $6,086,000.00 |
| | | 1579-11 | Combined | Delaware | Streets | Construction | Bumpout, Infiltration/Storage Trench | | 0.9 | 2026 | |
| | | 1579-12 | Combined | Delaware | Streets | Construction | Bumpout, Tree Trench | | 1.9 | 2026 | |
| | | 1579-4 | Combined | Delaware | Streets | Construction | Tree Trench | | 2.7 | 2026 | |
| | | 1579-5 | Combined | Delaware | Streets | Construction | Tree Trench | | 2.9 | 2026 | |
| | | 1579-6 | Combined | Delaware | Streets | Construction | Tree Trench | | 2.2 | 2026 | |
| 50346 | 1587 | 1587-1 | Combined | Delaware | Streets | Construction | Infiltration/Storage Trench | Department of Parks & Recreation (PPR) | 1.6 | 2026 | $763,000.00 |
| 50347 | 1594 | 1594-1 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.5 | 2026 | $4,071,000.00 |
| | | 1594-10 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.8 | 2026 | |
| | | 1594-2 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.6 | 2026 | |
| | | 1594-3 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.5 | 2026 | |
| | | 1594-4 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.4 | 2026 | |
| | | 1594-5 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| | | 1594-6 | Combined | Delaware | Streets | Construction | Bumpout, Tree Trench | | 1.3 | 2026 | |
| | | 1594-7 | Combined | Delaware | Streets | Construction | Bumpout, Tree Trench | | 1.2 | 2026 | |
| | | 1594-8 | Combined | Delaware | Streets | Construction | Bumpout, Tree Trench | | 1.8 | 2026 | |
| | | 1594-9 | Combined | Delaware | Streets | Construction | Bumpout, Tree Trench | | 2.6 | 2026 | |
| 50353 | 1602 | 1602-1 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.2 | 2026 | $3,271,000.00 |
| | | 1602-2 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| | | 1602-3 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.0 | 2026 | |
| | | 1602-4 | Combined | Delaware | Streets | Construction | Tree Trench | | 1.1 | 2026 | |
| | | 1602-5 | Combined | Delaware | Streets | Construction | Tree Trench | | 2.1 | 2026 | |
| | | 1602-6 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1602-7 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1602-8 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| | | 1602-9 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.5 | 2026 | |
| 90188 | 1582 | 1582-1 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.4 | 2026 | TBD |
| | | 1582-2 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| | | 1582-3 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1582-4 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1582-5 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1582-6 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.4 | 2026 | |
| | | 1582-7 | Combined | Delaware | Streets | Construction | Tree Trench | | 0.3 | 2026 | |
| **Total Greened Acres:** | | | | | | | | | **448** | | |

# Appendix 3

## Completed Private Development and Incentivized Green Stormwater Infrastructure Projects

## Completed Private Development and Incentivized Green Stormwater Infrastructure Reporting Metrics

The reporting format and metric definitions are described in Table 1 below.

**Table 1: Private/Incentives Reporting Metric Definitions**

| Metric | Definition |
|---|---|
| **Tracking Number** | Tracking Number is a unique assigned identifier from the SPRITE application. |
| **Watershed** | The City of Philadelphia watershed where the project is located. Six of the City's eight watersheds fall at least partially within the combined sewer area. These watersheds are:<br>• Cobbs Creek Watershed<br>• Darby Creek Watershed<br>• Delaware Direct Watershed<br>• Pennypack Creek Watershed<br>• Tookany/Tacony-Frankford Creek Watershed<br>• Schuylkill River Watershed |
| **SMP Type(s)** | A Stormwater Management Practice (SMP) is a technique that controls the rate and volume of stormwater runoff and/or improves runoff water quality. Multiple SMP types can be grouped together in a larger GSI system. The SMP types were originally defined in Table 2-1 of the IAMP. |
| **Greened Acres (acre-inch)** | Greened Acres is a metric that accounts for the conversion of a highly impervious urban landscape through the implementation of projects that reduce stormwater runoff. A Greened Acre is described as an acre of impervious cover connected (tributary) to a combined sewer that subsequently is reconfigured to utilize green stormwater infrastructure to manage at least one inch of stormwater runoff. If storage is provided, systems can credit up to two inches of the stormwater runoff from that acre. The best available Greened Acre value is pulled from the database for regulatory reporting. |

**Table 2: Private/Incentives SMP Type Definitions**

| Private / Incentives SMP Type Definitions | |
|---|---|
| Basin | Includes surface basins or depressions that are vegetated with mowed grass and subsurface infiltration and detention basins. In both cases, the basins are designed to detain and release stormwater runoff and/or infiltrate where feasible. |
| Bioinfiltration / Bioretention | A bioinfiltration/bioretention basin is a vegetated basin or depression designed to either infiltrate or release stormwater runoff. |
| Blue Roof | A blue roof is a storage system designed into a roof surface such that the roof retains stormwater. Blue roofs are designed to reduce the rate of stormwater runoff. |
| Cistern | Storage tanks (located either above or below ground) that capture and store runoff and can thereby reduce runoff volume. Stored water may drain by gravity or be pumped to its ultimate end use for a variety of non-potable water needs. |

| Private / Incentives SMP Type Definitions | |
|---|---|
| Depave | Depaving projects remove existing impervious pavement and restore the surface with grass, other types of vegetation, or loose materials (stone, mulch, etc.) such that the area can thereafter be considered pervious area. Depaving projects remove contributing impervious area from the sewer system. Categorized as a Disconnection and logged in square feet. |
| Disconnected Impervious Area | Impervious area that discharges to a pervious area. These types could be any of the following:<br>Pavement - Runoff is designed to be directed to a vegetated area that allows for infiltration, filtration, and an increased time of concentration.<br>Planters - At or above grade planter area and number of planters that do not contribute to water quality.<br>Rooftop Area - Rooftop drainage directed to a vegetated area that allows for infiltration, filtration, and increased time of concentration.<br>Tree Credit - New or existing tree canopy from an approved species list that extends over, or is in close proximity to, impervious area. |
| Green Roof | Vegetated surface installed over a roof surface. Green roofs are effective in reducing the volume and rates of stormwater runoff. |
| Porous Pavement | Permeable surface commonly composed of concrete, asphalt, pavers, turf, or rubber play surface. Stormwater flows through the porous surface during a rain event, then drains into the subbase beneath the pavement, where it is stored until it infiltrates into the soil. |
| WQ Treatment Device | Filter products that reduce pollutant levels by removing sediments, metals, hydrocarbons, and other pollutants from stormwater. |

**Table 3: Completed Private Development Green Stormwater Infrastructure Projects**

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2005-0052-01 | Combined | Verified | Lower Schuylkill River | 19139 | Subsurface Infiltration Basin (2) | 3.6 |
| 2005-0099-01 | Combined | Verified | Lower Schuylkill River | 19131 | Surface Infiltration Basin (1) | 38 |
| 2006-0017-01 | Combined | Verified | Lower Schuylkill River | 19142 | Porous Pavement (1), Subsurface Infiltration Basin (1) | 1.5 |
| 2006-0057-01 | Combined | Verified | Delaware Direct | 19123 | Subsurface Detention Basin (1) | 0 |
| 2006-0063-01 | Combined | Verified | Delaware Direct | 19122 | Subsurface Infiltration Basin (1) | 3.3 |
| 2006-0110-01 | Combined | Verified | Delaware Direct | 19140 | Subsurface Detention Basin (1), Subsurface Infiltration Basin (1) | 1 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2006-30TH-236-01 | Combined | Verified | Lower Schuylkill River | 19104 | Surface Infiltration Basin (1) | 0.6 |
| 2006-9349-349-01 | Combined | Verified | Delaware Direct | 19123 | Subsurface Detention Basin (1) | 0.1 |
| 2006-94-01 | Combined | Verified | Delaware Direct | 19148 | Subsurface Detention Basin (3) | 2.2 |
| 2006-ANGE-268-01 | Combined | Verified | Lower Schuylkill River | 19104 | Subsurface Infiltration Basin (2) | 1.3 |
| 2006-BRID-200-01 | Combined | Verified | Delaware Direct | 19137 | Disconnections (1), Subsurface Infiltration Basin (16) | 0.7 |
| 2006-CCPO-276-01 | Combined | Verified | Delaware Direct | 19122 | Surface Detention Basin (1), Surface Infiltration Basin (1) | 4.5 |
| 2006-CINT-431-01 | Combined | Verified | Lower Schuylkill River | 19131 | Surface Detention Basin (1) | 9.5 |
| 2006-COMM-328-01 | Combined | Verified | Cobbs Creek | 19139 | Cistern (1), Porous Pavement (2), Subsurface Detention Basin (1) | 0.9 |
| 2006-EDWI-215-01 | Combined | Verified | Delaware Direct | 19136 | Disconnections (1), Subsurface Detention Basin (3), Subsurface Infiltration Basin (1) | 0.8 |
| 2006-FEDE-409-01 | Combined | Verified | Delaware Direct | 19106 | Disconnections (1), Green Roof (1), Subsurface Detention Basin (1) | 0.3 |
| 2006-GENE-192-01 | Combined | Verified | Delaware Direct | 19123 | Disconnections (1), Subsurface Detention Basin (2) | 0.3 |
| 2006-HUNT-445-01 | Combined | Verified | Delaware Direct | 19133 | Porous Pavement (48), Subsurface Infiltration Basin (48) | 2 |
| 2006-LAWT-291-01 | Combined | Verified | Delaware Direct | 19135 | Subsurface Detention Basin (1) | 1.2 |
| 2006-LE22-460-01 | Combined | Verified | Delaware Direct | 19123 | Disconnections (1), Porous Pavement (2), Subsurface Infiltration Basin (1) | 1 |
| 2006-MARS-381-01 | Combined | Verified | Lower Schuylkill River | 19104 | Subsurface Detention Basin (1) | 0.1 |
| 2006-MARS-407-01 | Combined | Verified | Lower Schuylkill River | 19104 | Subsurface Detention Basin (1) | 0 |
| 2006-MICH-419-01 | Combined | Verified | Delaware Direct | 19125 | Porous Pavement (1), Subsurface Infiltration Basin (1) | 0.7 |
| 2006-MOOR-320-01 | Combined | Verified | Delaware Direct | 19148 | Subsurface Detention Basin (2), Subsurface Infiltration Basin (1) | 0.5 |
| 2006-NATI-441-01 | Combined | Verified | Delaware Direct | 19106 | Subsurface Detention Basin (1) | 0.5 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2006-PILG-444-01 | Combined | Verified | Delaware Direct | 19111 | Subsurface Infiltration Basin (2) | 1.4 |
| 2006-PROG-400-01 | Combined | Verified | Delaware Direct | 19122 | Subsurface Infiltration Basin (2) | 5.5 |
| 2006-PROP-233-01 | Combined | Verified | Lower Schuylkill River | 19146 | Subsurface Infiltration Basin (1) | 1.8 |
| 2006-SAFE-234-01 | Combined | Verified | Delaware Direct | 19134 | Bioretention (1), Subsurface Detention Basin (1) | 0.6 |
| 2006-SAMU-440-01 | Combined | Verified | Delaware Direct | 19148 | Subsurface Detention Basin (3), Surface Detention Basin (3) | 0.9 |
| 2006-SOLI-300-01 | Combined | Verified | Delaware Direct | 19149 | Bioretention (1), Subsurface Infiltration Basin (1) | 2.7 |
| 2006-TACO-337-01 | Combined | Verified | Delaware Direct | 19149 | Subsurface Infiltration Basin (1) | 0.3 |
| 2006-TEMP-210-01 | Combined | Verified | Delaware Direct | 19122 | Porous Pavement (1), Subsurface Detention Basin (1) | 0.6 |
| 2006-TEMP-245-01 | Combined | Verified | Delaware Direct | 19122 | Subsurface Infiltration Basin (2) | 1.3 |
| 2006-VAUX-338-01 | Combined | Verified | Lower Schuylkill River | 19121 | Subsurface Infiltration Basin (1) | 1.3 |
| 2006-VILL-194-01 | Combined | Verified | Lower Schuylkill River | 19145 | Disconnections (1), Subsurface Infiltration Basin (9), Surface Detention Basin (3), Surface Infiltration Basin (1) | 26.8 |
| 2007-4839-625-01 | Combined | Verified | Lower Schuylkill River | 19131 | Subsurface Detention Basin (1) | 0.9 |
| 2007-AROU-626-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Subsurface Infiltration Basin (1) | 0.6 |
| 2007-BENC-482-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Porous Pavement (1), Subsurface Detention Basin (1) | 1.2 |
| 2007-CECI-556-01 | Combined | Verified | Delaware Direct | 19121 | Subsurface Detention Basin (54) | 1.1 |
| 2007-DREX-669-01 | Combined | Verified | Lower Schuylkill River | 19104 | Cistern (1), Disconnections (1), Porous Pavement (1) | 0.8 |
| 2007-GAMB-624-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Porous Pavement (1) | 0.1 |
| 2007-GAMB-701-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Bioinfiltration (1), Disconnections (1), Porous Pavement (2) | 1.7 |
| 2007-GUIO-721-01 | Combined | Verified | Lower Schuylkill River | 19131 | Disconnections (1), Porous Pavement (1), Subsurface Detention Basin (1) | 1.4 |
| 2007-HERR-690-01 | Combined | Verified | Delaware Direct | 19147 | Disconnections (1), Porous Pavement (3) | 0.6 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2007-HOWI-498-01 | Combined | Verified | Delaware Direct | 19123 | Disconnections (1), Subsurface Detention Basin (1) | 0.3 |
| 2007-LASA-593-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Disconnections (1), Porous Pavement (2), Subsurface Infiltration Basin (2) | 12.2 |
| 2007-MCDO-558-01 | Combined | Verified | Delaware Direct | 19133 | Subsurface Detention Basin (1) | 0.5 |
| 2007-MCDO-560-01 | Combined | Verified | Delaware Direct | 19135 | Subsurface Detention Basin (1) | 0.1 |
| 2007-MTTA-480-01 | Combined | Verified | Delaware Direct | 19123 | Green Roof (1), Porous Pavement (1) | 0.3 |
| 2007-NELL-504-01 | Combined | Verified | Lower Schuylkill River | 19121 | Green Roof (1), Subsurface Detention Basin (1) | 0.9 |
| 2007-PASH-524-01 | Combined | Verified | Cobbs Creek | 19142 | Subsurface Infiltration Basin (1) | 0.8 |
| 2007-POWE-679-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1) | 0.4 |
| 2007-SIMO-496-01 | Combined | Verified | Tacony-Frankford Creek | 19138 | Bioinfiltration (1), Porous Pavement (1) | 0.9 |
| 2007-SOUT-557-01 | Combined | Verified | Delaware Direct | 19148 | Subsurface Detention Basin (1) | 0.1 |
| 2007-THEM-495-01 | Combined | Verified | Lower Schuylkill River | 19131 | Subsurface Detention Basin (1), Surface Detention Basin (1) | 6.4 |
| 2007-UNIV-633-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioinfiltration (1), Disconnections (1), Subsurface Infiltration Basin (1) | 0.4 |
| 2007-WARN-646-01 | Combined | Verified | Delaware Direct | 19133 | Subsurface Infiltration Basin (1) | 2.9 |
| 2007-WARN-651-01 | Combined | Verified | Delaware Direct | 19133 | Subsurface Infiltration Basin (1) | 2.7 |
| 2007-WEST-684-01 | Combined | Verified | Cobbs Creek | 19139 | Disconnections (1), Subsurface Detention Basin (1) | 0 |
| 2007-WILL-699-01 | Combined | Verified | Delaware Direct | 19134 | Bioretention (9), Subsurface Detention Basin (1) | 5 |
| 2008-1600-898-01 | Combined | Verified | Delaware Direct | 19122 | Bioretention (1) | 0.5 |
| 2008-20UN-767-01 | Combined | Verified | Lower Schuylkill River | 19104 | Green Roof (1), Porous Pavement (1) | 0.4 |
| 2008-2116-992-01 | Combined | Verified | Lower Schuylkill River | 19103 | Bioretention (2), Disconnections (1), Green Roof (2), Surface Detention Basin (3) | 0.5 |
| 2008-2552-873-01 | Combined | Verified | Delaware Direct | 19134 | Subsurface Infiltration Basin (1) | 0.7 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2008-4014-979-01 | Combined | Verified | Delaware Direct | 19123 | Disconnections (1), Subsurface Infiltration Basin (1) | 0.8 |
| 2008-BARN-986-01 | Combined | Verified | Lower Schuylkill River | 19130 | Disconnections (1), Green Roof (2), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1) | 4.4 |
| 2008-CAST-875-01 | Combined | Verified | Delaware Direct | 19149 | Subsurface Detention Basin (1) | 0 |
| 2008-CLAS-765-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Green Roof (1), Porous Pavement (1), Subsurface Infiltration Basin (2) | 0.5 |
| 2008-COMM-763-01 | Combined | Verified | Lower Schuylkill River | 19130 | Disconnections (1), Green Roof (1), Porous Pavement (2), Subsurface Infiltration Basin (3) | 2.6 |
| 2008-DREX-788-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioinfiltration (2), Porous Pavement (1), Subsurface Infiltration Basin (1) | 1.5 |
| 2008-DREX-950-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (2), Green Roof (1), Subsurface Detention Basin (1) | 0.2 |
| 2008-FRAN-921-01 | Combined | Verified | Lower Schuylkill River | 19104 | Porous Pavement (2) | 0.3 |
| 2008-FRAN-994-01 | Combined | Verified | Delaware Direct | 19130 | Porous Pavement (1), Subsurface Infiltration Basin (7) | 1.6 |
| 2008-MART-980-01 | Combined | Verified | Delaware Direct | 19147 | Subsurface Infiltration Basin (1) | 0.6 |
| 2008-NAVA-893-01 | Combined | Verified | Lower Schuylkill River | 19146 | Subsurface Infiltration Basin (6) | 9.7 |
| 2008-NEWK-958-01 | Combined | Verified | Delaware Direct | 19122 | Bioinfiltration (1), Green Roof (1), Porous Pavement (2), Subsurface Detention Basin (2) | 5.2 |
| 2008-NEWL-839-01 | Combined | Verified | Delaware Direct | 19140 | Subsurface Infiltration Basin (1) | 0.5 |
| 2008-NORT-1012-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Subsurface Infiltration Basin (1) | 0.5 |
| 2008-PROP-824-01 | Combined | Verified | Lower Schuylkill River | 19139 | Disconnections (1), Porous Pavement (2), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1) | 6.2 |
| 2008-ROLA-813-01 | Combined | Verified | Tacony-Frankford Creek | 19141 | Green Roof (2), Subsurface Infiltration Basin (1) | 0.3 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2008-ROTE-960-01 | Combined | Verified | Delaware Direct | 19148 | Bioretention (1), Porous Pavement (2), Subsurface Detention Basin (1) | 1.3 |
| 2008-SCHM-902-01 | Combined | Verified | Delaware Direct | 19123 | Disconnections (1), Green Roof (1), Porous Pavement (1), Subsurface Infiltration Basin (2) | 5.9 |
| 2008-SHER-926-01 | Combined | Verified | Delaware Direct | 19122 | Green Roof (1), Porous Pavement (1) | 0.2 |
| 2008-STRA-799-01 | Combined | Verified | Lower Schuylkill River | 19121 | Porous Pavement (1), Subsurface Infiltration Basin (6) | 0.4 |
| 2008-STRA-802-01 | Combined | Verified | Lower Schuylkill River | 19121 | Porous Pavement (4), Subsurface Infiltration Basin (4) | 0.3 |
| 2008-THEC-806-01 | Combined | Verified | Delaware Direct | 19103 | Green Roof (2), Subsurface Detention Basin (1) | 0.2 |
| 2008-WALG-838-01 | Combined | Verified | Delaware Direct | 19146 | Bioretention (1), Subsurface Infiltration Basin (1) | 0.5 |
| 2008-WOOD-864-01 | Combined | Verified | Lower Schuylkill River | 19104 | Porous Pavement (1) | 0.5 |
| 2009-2007-1090-01 | Combined | Verified | Delaware Direct | 19148 | Subsurface Detention Basin (1) | 28.8 |
| 2009-7149-1186-01 | Combined | Verified | Delaware Direct | 19135 | Disconnections (1), Subsurface Infiltration Basin (1) | 0.8 |
| 2009-CANC-1145-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Bioretention (1), Disconnections (1), Surface Detention Basin (1) | 6.2 |
| 2009-CONG-1210-01 | Combined | Verified | Delaware Direct | 19133 | Disconnections (1), Porous Pavement (1), Subsurface Infiltration Basin (1) | 2.8 |
| 2009-DORA-1041-01 | Combined | Verified | Lower Schuylkill River | 19131 | Porous Pavement (8), Subsurface Infiltration Basin (2) | 0.7 |
| 2009-FRAN-1130-01 | Combined | Verified | Delaware Direct | 19137 | Disconnections (1), Subsurface Infiltration Basin (3) | 0.5 |
| 2009-GLOB-1016-01 | Combined | Verified | Lower Schuylkill River | 19131 | Bioretention (4), Subsurface Detention Basin (1) | 1.8 |
| 2009-HAWT-1102-01 | Combined | Verified | Delaware Direct | 19147 | Disconnections (1), Porous Pavement (1) | 0.3 |
| 2009-HELP-1138-01 | Combined | Verified | Lower Schuylkill River | 19153 | Subsurface Infiltration Basin (2) | 3.7 |
| 2009-IATS-1023-01 | Combined | Verified | Delaware Direct | 19148 | Green Roof (1), Subsurface Detention Basin (1) | 0.8 |
| 2009-JANN-1141-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Green Roof (1), Porous Pavement (2) | 0.3 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2009-LAWR-1044-01 | Combined | Verified | Delaware Direct | 19140 | Porous Pavement (1), Subsurface Infiltration Basin (1) | 2.9 |
| 2009-MANT-1033-01 | Combined | Verified | Lower Schuylkill River | 19104 | Subsurface Infiltration Basin (1) | 4.6 |
| 2009-NEWH-1079-01 | Combined | Verified | Lower Schuylkill River | 19139 | Disconnections (1), Subsurface Infiltration Basin (2) | 0.7 |
| 2009-NEWP-1166-01 | Combined | Verified | Delaware Direct | 19140 | Disconnections (1), Subsurface Infiltration Basin (1) | 1.3 |
| 2009-NICE-1136-01 | Combined | Verified | Tacony-Frankford Creek | 19140 | Bioretention (3), Subsurface Detention Basin (1) | 0.4 |
| 2009-PARK-1197-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioinfiltration (1), Disconnections (1) | 1.5 |
| 2009-PASC-1226-01 | Combined | Verified | Cobbs Creek | 19142 | Porous Pavement (1), Subsurface Infiltration Basin (3) | 4.7 |
| 2009-PECO-1133-01 | Combined | Verified | Lower Schuylkill River | 19146 | Subsurface Infiltration Basin (2) | 4 |
| 2009-PENN-1019-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioretention (7), Green Roof (1), Subsurface Detention Basin (2) | 3.9 |
| 2009-PENN-1144-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Green Roof (1), Porous Pavement (2), Subsurface Detention Basin (2) | 0.4 |
| 2009-PHIL-1205-01 | Combined | Verified | Delaware Direct | 19148 | Porous Pavement (1) | 14.6 |
| 2009-PRES-1037-01 | Combined | Verified | Tacony-Frankford Creek | 19150 | Bioretention (1), Disconnections (1), Porous Pavement (1), Subsurface Infiltration Basin (1) | 1.9 |
| 2009-PRIN-1147-01 | Combined | Verified | Lower Schuylkill River | 19121 | Green Roof (1), Subsurface Infiltration Basin (1) | 1.1 |
| 2009-RODI-1176-01 | Combined | Verified | Lower Schuylkill River | 19130 | Subsurface Infiltration Basin (2) | 0.3 |
| 2009-SCHU-1140-01 | Combined | Verified | Lower Schuylkill River | 19103 | Disconnections (1) | 0.7 |
| 2009-SIST-1062-01 | Combined | Verified | Lower Schuylkill River | 19103 | Disconnections (1) | 0.1 |
| 2009-SIST-1131-01 | Combined | Verified | Lower Schuylkill River | 19103 | Disconnections (2), Green Roof (2), Subsurface Infiltration Basin (1) | 0.4 |
| 2009-STRA-1050-01 | Combined | Verified | Lower Schuylkill River | 19121 | Subsurface Infiltration Basin (4) | 0.2 |
| 2009-STRA-1055-01 | Combined | Verified | Lower Schuylkill River | 19121 | Subsurface Infiltration Basin (4) | 0.3 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2009-TDBA-1072-01 | Combined | Verified | Delaware Direct | 19149 | Bioinfiltration (1), Disconnections (1), Subsurface Infiltration Basin (2) | 1.5 |
| 2009-TEMP-1077-01 | Combined | Verified | Delaware Direct | 19122 | Bioretention (1), Porous Pavement (1), Subsurface Detention Basin (1) | 0.9 |
| 2009-TEMP-1096-01 | Combined | Verified | Delaware Direct | 19122 | Subsurface Detention Basin (1) | 2.6 |
| 2009-THEC-1174-01 | Combined | Verified | Delaware Direct | 19135 | Bioretention (2), Disconnections (1), Green Roof (1) | 0.6 |
| 2009-THEM-1167-01 | Combined | Verified | Delaware Direct | 19121 | Disconnections (1), Green Roof (1), Porous Pavement (1) | 0.4 |
| 2009-THEP-1173-01 | Combined | Verified | Lower Schuylkill River | 19140 | Green Roof (1) | 0.1 |
| 2009-WALM-1045-01 | MS4* | Verified | Delaware Direct | 19148 | Bioretention (3), WQ Treatment Device (1) | 8.0 |
| 2009-WEST-1222-01 | Combined | Verified | Lower Schuylkill River | 19139 | Disconnections (1), Green Roof (1), Porous Pavement (2) | 1.4 |
| 2009-WOLC-1169-01 | Combined | Verified | Tacony-Frankford Creek | 19138 | Bioinfiltration (4), Disconnections (1), Subsurface Detention Basin (1) | 1.7 |
| 2010-1800-1260-01 | Combined | Verified | Lower Schuylkill River | 19146 | Disconnections (1), Subsurface Infiltration Basin (1) | 0.8 |
| 2010-1940-1435-01 | Combined | Verified | Delaware Direct | 19140 | Disconnections (1), Porous Pavement (1), Subsurface Infiltration Basin (1) | 1.1 |
| 2010-3737-1331-01 | Combined | Verified | Lower Schuylkill River | 19104 | Green Roof (1), Subsurface Detention Basin (1) | 0.3 |
| 2010-4109-1277-01 | Combined | Verified | Lower Schuylkill River | 19104 | Green Roof (1), Porous Pavement (1) | 0.2 |
| 2010-411W-1300-01 | Combined | Verified | Delaware Direct | 19122 | Bioretention (3), Subsurface Detention Basin (1) | 0.1 |
| 2010-4FRA-1464-01 | Combined | Verified | Lower Schuylkill River | 19103 | Green Roof (1), Subsurface Detention Basin (3) | 0.9 |
| 2010-5526-1348-01 | Combined | Verified | Darby Creek | 19139 | Porous Pavement (2), Subsurface Infiltration Basin (1) | 0.5 |
| 2010-8828-1321-01 | Combined | Verified | Pennypack Creek | 19136 | Subsurface Infiltration Basin (2) | 2 |
| 2010-AGIL-1461-01 | Combined | Verified | Delaware Direct | 19121 | Disconnections (1), Subsurface Infiltration Basin (1) | 2.3 |
| 2010-ARCH-1393-01 | Combined | Verified | Delaware Direct | 19122 | Disconnections (1), Green Roof (1) | 0.2 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2010-BRID-1233-01 | Combined | Verified | Delaware Direct | 19137 | Porous Pavement (1), Subsurface Infiltration Basin (1) | 1.6 |
| 2010-BROA-1347-01 | Combined | Verified | Tacony-Frankford Creek | 19141 | Subsurface Infiltration Basin (1) | 1.5 |
| 2010-CHOP-1367-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Green Roof (1), Surface Detention Basin (2) | 2.6 |
| 2010-CREA-1427-01 | Combined | Verified | Delaware Direct | 19125 | Disconnections (1), Green Roof (14), Porous Pavement (15) | 0.3 |
| 2010-DICK-1410-01 | Combined | Verified | Delaware Direct | 19148 | Disconnections (1), Porous Pavement (2) | 0.7 |
| 2010-DILW-1442-01 | Combined | Verified | Lower Schuylkill River | 19107 | Disconnections (1), Subsurface Detention Basin (2), Surface Detention Basin (1) | 0.7 |
| 2010-DREX-1399-01 | Combined | Verified | Lower Schuylkill River | 19104 | Green Roof (1), Subsurface Detention Basin (3) | 1.5 |
| 2010-EARL-1460-01 | Combined | Verified | Lower Schuylkill River | 19146 | Disconnections (1), Subsurface Infiltration Basin (1) | 0.7 |
| 2010-ESPE-1288-01 | Combined | Verified | Tacony-Frankford Creek | 19140 | Subsurface Infiltration Basin (1) | 1.7 |
| 2010-GEST-1346-01 | Combined | Verified | Lower Schuylkill River | 19131 | Subsurface Detention Basin (2), Subsurface Infiltration Basin (1) | 1.1 |
| 2010-GRAN-1432-01 | Combined | Verified | Lower Schuylkill River | 19130 | Green Roof (1), Subsurface Detention Basin (3) | 0.6 |
| 2010-HUNT-1351-01 | Combined | Verified | Tacony-Frankford Creek | 19140 | Disconnections (1) | 0.1 |
| 2010-MOYE-1306-01 | Combined | Verified | Delaware Direct | 19125 | Green Roof (2), Porous Pavement (1) | 0.6 |
| 2010-NORR-1475-01 | Combined | Verified | Delaware Direct | 19122 | Disconnections (1), Porous Pavement (1), Subsurface Infiltration Basin (1) | 2.9 |
| 2010-NORT-1449-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Subsurface Infiltration Basin (2) | 1.4 |
| 2010-PASC-1238-01 | Combined | Verified | Cobbs Creek | 19142 | Disconnections (1), Porous Pavement (1), Subsurface Infiltration Basin (3) | 2.2 |
| 2010-PHIL-1362-01 | Combined | Verified | Delaware Direct | 19148 | Bioretention (2), Surface Detention Basin (1) | 0.9 |
| 2010-PHIL-1469-01 | Combined | Verified | Delaware Direct | 19148 | Bioretention (1), Disconnections (1), Subsurface Detention Basin | 3.4 |

*Combined Sewer Disconnection

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| | | | | | (1), Surface Detention Basin (1) | |
| 2010-PLEA-1444-01 | Combined | Verified | Tacony-Frankford Creek | 19119 | Disconnections (1), Green Roof (1), Subsurface Detention Basin (1) | 0.2 |
| 2010-PNKW-1360-01 | Combined | Verified | Tacony-Frankford Creek | 19140 | Porous Pavement (1), Subsurface Infiltration Basin (1) | 4.2 |
| 2010-PROP-1376-01 | Combined | Verified | Delaware Direct | 19141 | Bioinfiltration (2), Bioretention (1), Subsurface Infiltration Basin (2) | 2.9 |
| 2010-PSDC-1234-01 | Combined | Verified | Delaware Direct | 19147 | Subsurface Infiltration Basin (1) | 1.4 |
| 2010-PSPH-1353-01 | Combined | Verified | Lower Schuylkill River | 19131 | Green Roof (1), Subsurface Infiltration Basin (2) | 8.4 |
| 2010-STJO-1239-01 | Combined | Verified | Lower Schuylkill River | 19131 | Bioinfiltration (1), Green Roof (1), Subsurface Infiltration Basin (1) | 1.3 |
| 2010-TEMP-1302-01 | Combined | Verified | Delaware Direct | 19122 | Cistern (1), Disconnections (1), Subsurface Infiltration Basin (1) | 3.5 |
| 2010-THEF-1254-01 | Combined | Verified | Lower Schuylkill River | 19103 | Bioretention (2), Disconnections (1), Subsurface Detention Basin (2) | 0.4 |
| 2010-UNIV-1312-01 | Combined | Verified | Lower Schuylkill River | 19104 | Green Roof (1), Subsurface Detention Basin (2) | 0.7 |
| 2010-UNIV-1385-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioretention (1), Disconnections (1), Subsurface Detention Basin (1) | 1.5 |
| 2010-WIST-1397-01 | Combined | Verified | Lower Schuylkill River | 19104 | Green Roof (1), Subsurface Detention Basin (1) | 0.4 |
| 2011-1900-1519-01 | Combined | Verified | Lower Schuylkill River | 19103 | Cistern (1), Green Roof (1), Subsurface Detention Basin (1) | 0.7 |
| 2011-3343-1653-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Porous Pavement (1), Subsurface Infiltration Basin (1) | 0.8 |
| 2011-33RD-1697-01 | Combined | Verified | Lower Schuylkill River | 19132 | Bioretention (1), Disconnections (1), Green Roof (1) | 0.1 |
| 2011-4240-1543-01 | Combined | Verified | Lower Schuylkill River | 19104 | Subsurface Infiltration Basin (1) | 1.1 |
| 2011-822N-1632-01 | Combined | Verified | Delaware Direct | 19123 | Green Roof (1), Porous Pavement (2) | 0.3 |
| 2011-8318-1655-01 | Combined | Verified | Lower Schuylkill River | 19121 | Green Roof (1), Porous Pavement (1) | 0.2 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2011-BOTT-1646-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Bioretention (1), Subsurface Detention Basin (2) | 2.7 |
| 2011-CANC-1485-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Green Roof (1) | 0.3 |
| 2011-CCTD-1535-01 | Combined | Verified | Lower Schuylkill River | 19139 | Subsurface Infiltration Basin (1) | 1.8 |
| 2011-CHRI-1545-01 | Combined | Verified | Delaware Direct | 19147 | Green Roof (1), Porous Pavement (1), Subsurface Infiltration Basin (3) | 1 |
| 2011-CONV-1491-01 | Combined | Verified | Lower Schuylkill River | 19107 | Disconnections (1), Green Roof (1), Subsurface Detention Basin (1) | 0.3 |
| 2011-DIAM-1617-01 | Combined | Verified | Delaware Direct | 19140 | Green Roof (1), Subsurface Detention Basin (1) | 0.4 |
| 2011-DOLL-1636-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Subsurface Infiltration Basin (1) | 1.1 |
| 2011-DREX-1638-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioretention (1), Disconnections (1), Green Roof (9) | 0.8 |
| 2011-EAST-1687-01 | Combined | Verified | Delaware Direct | 19107 | Green Roof (1), Porous Pavement (1), Subsurface Detention Basin (1) | 0.2 |
| 2011-FAIR-1488-01 | Combined | Verified | Delaware Direct | 19130 | Green Roof (1), Subsurface Detention Basin (1) | 0.4 |
| 2011-GREE-1706-01 | Combined | Verified | Tacony-Frankford Creek | 19138 | Porous Pavement (1), Subsurface Detention Basin (1), Surface Infiltration Basin (1) | 2 |
| 2011-HAGE-1562-01 | Combined | Verified | Delaware Direct | 19125 | Porous Pavement (2), Subsurface Infiltration Basin (1) | 2.1 |
| 2011-HAMI-1518-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bio-infiltration/Bio-retention (1), Bioretention (3), Cistern (2), Disconnections (1), Green Roof (2), Subsurface Infiltration Basin (2) | 2.1 |
| 2011-HOME-1571-01 | Combined | Verified | Delaware Direct | 19107 | Bioretention (1), Green Roof (1), Subsurface Detention Basin (1) | 0.2 |
| 2011-I95S-1699-01 | Combined | Verified | Delaware Direct | 19125 | Bioinfiltration (10), Bioretention (1), Surface Detention Basin (6) | 8 |
| 2011-JWSD-1674-01 | Combined | Verified | Delaware Direct | 19122 | Disconnections (1), Subsurface Infiltration Basin (1) | 3.7 |
| 2011-KARA-1505-01 | Combined | Verified | Lower Schuylkill River | 19139 | Disconnections (1), Porous Pavement (2), Subsurface Infiltration Basin (3) | 4 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2011-MONT-1516-01 | Combined | Verified | Delaware Direct | 19122 | Subsurface Infiltration Basin (1) | 3.6 |
| 2011-NEWB-1672-01 | Combined | Verified | Lower Schuylkill River | 19145 | Green Roof (23), Porous Pavement (1) | 0.4 |
| 2011-NEWN-1620-01 | Combined | Verified | Delaware Direct | 19123 | Green Roof (1), Porous Pavement (1), Subsurface Infiltration Basin (1) | 0.9 |
| 2011-NICE-1728-01 | Combined | Verified | Tacony-Frankford Creek | 19140 | Porous Pavement (1), Subsurface Infiltration Basin (1) | 0.4 |
| 2011-NICE-1729-01 | Combined | Verified | Tacony-Frankford Creek | 19140 | Porous Pavement (1), Subsurface Detention Basin (1) | 0.5 |
| 2011-NICE-1730-01 | Combined | Verified | Tacony-Frankford Creek | 19140 | Porous Pavement (2), Subsurface Infiltration Basin (1) | 1.3 |
| 2011-NORT-1700-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Porous Pavement (1), Subsurface Detention Basin (1) | 0.9 |
| 2011-PENN-1664-01 | Combined | Verified | Lower Schuylkill River | 19104 | Porous Pavement (1) | 0.2 |
| 2011-PENN-1681-01 | Combined | Verified | Lower Schuylkill River | 19104 | Green Roof (1) | 0.4 |
| 2011-PHIL-1596-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioretention (1), Disconnections (1), Porous Pavement (2), Surface Detention Basin (1) | 3.5 |
| 2011-PROP-1483-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Porous Pavement (3), Surface Infiltration Basin (1) | 1.6 |
| 2011-PROP-1662-01 | Combined | Verified | Lower Schuylkill River | 19130 | Subsurface Infiltration Basin (2), Surface Infiltration Basin (1) | 3.7 |
| 2011-SAMU-1569-01 | Combined | Verified | Delaware Direct | 19111 | Porous Pavement (1) | 0.4 |
| 2011-STMA-1508-01 | Combined | Verified | Delaware Direct | 19147 | Green Roof (1), Porous Pavement (1), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1) | 0.5 |
| 2011-TEMP-1622-01 | Combined | Verified | Delaware Direct | 19122 | Blue Roof (4), Green Roof (4), Porous Pavement (1), Subsurface Infiltration Basin (2) | 2.2 |
| 2011-TEMP-1739-01 | Combined | Verified | Delaware Direct | 19122 | Bioretention (2), Cistern (1), Porous Pavement (1), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1) | 2.4 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2011-THEB-1594-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Bioretention (2), Disconnections (1), Subsurface Detention Basin (4), Subsurface Infiltration Basin (2) | 1.6 |
| 2011-TOLL-1586-01 | Combined | Verified | Lower Schuylkill River | 19146 | Disconnections (1), Green Roof (1), Subsurface Infiltration Basin (1) | 3.9 |
| 2012-1213-1925-01 | Combined | Verified | Delaware Direct | 19107 | Cistern (1), Green Roof (6), Subsurface Detention Basin (1) | 0.3 |
| 2012-1220-1913-01 | Combined | Verified | Delaware Direct | 19123 | Green Roof (2), Porous Pavement (1) | 0.4 |
| 2012-1426-1805-01 | Combined | Verified | Lower Schuylkill River | 19102 | Blue Roof (1), Green Roof (1) | 0.3 |
| 2012-1601-1939-01 | Combined | Verified | Lower Schuylkill River | 19143 | Green Roof (2), Subsurface Detention Basin (1) | 3.2 |
| 2012-1900-1754-01 | Combined | Verified | Lower Schuylkill River | 19145 | Green Roof (1), Porous Pavement (1) | 0.6 |
| 2012-1919-1929-01 | Combined | Verified | Lower Schuylkill River | 19103 | Disconnections (1), Green Roof (1), Subsurface Detention Basin (1) | 1.2 |
| 2012-2549-1840-01 | Combined | Verified | Delaware Direct | 19125 | Porous Pavement (1) | 1 |
| 2012-3601-2053-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioretention (1), Subsurface Detention Basin (1) | 0.4 |
| 2012-412N-1844-01 | Combined | Verified | Delaware Direct | 19123 | Green Roof (2), Porous Pavement (1), Subsurface Infiltration Basin (1) | 1.1 |
| 2012-600N-1963-01 | Combined | Verified | Delaware Direct | 19123 | Green Roof (16), Porous Pavement (1) | 0.4 |
| 2012-701W-2002-01 | Combined | Verified | Delaware Direct | 19133 | Disconnections (1), Porous Pavement (2), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1) | 4.7 |
| 2012-810A-1974-01 | Combined | Verified | Delaware Direct | 19107 | Bioretention (2), Subsurface Detention Basin (1) | 0.2 |
| 2012-915N-1854-01 | Combined | Verified | Delaware Direct | 19123 | Porous Pavement (1), Subsurface Infiltration Basin (1) | 1.4 |
| 2012-AHMA-1831-01 | Combined | Verified | Delaware Direct | 19133 | Disconnections (1), Subsurface Infiltration Basin (1) | 2.1 |
| 2012-BUIL-1807-01 | Combined | Verified | Tacony-Frankford Creek | 19111 | Disconnections (1) | 0.1 |
| 2012-CANC-1770-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Bioinfiltration (1), Green Roof (1) | 0.6 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2012-CARP-1765-01 | Combined | Verified | Delaware Direct | 19146 | Bioretention (2), Green Roof (2), Porous Pavement (1) | 0.4 |
| 2012-CENT-1791-01 | Combined | Verified | Delaware Direct | 19122 | Porous Pavement (4) | 1.3 |
| 2012-CIRA-1937-01 | Combined | Verified | Lower Schuylkill River | 19104 | Blue Roof (1), Green Roof (2), Subsurface Detention Basin (1) | 2 |
| 2012-EPIS-1888-01 | Combined | Verified | Lower Schuylkill River | 19104 | Green Roof (2), Subsurface Detention Basin (2) | 0.2 |
| 2012-ESPE-1947-01 | Combined | Verified | Tacony-Frankford Creek | 19140 | Disconnections (1), Porous Pavement (1), Subsurface Detention Basin (1) | 3.7 |
| 2012-GARY-1938-01 | Combined | Verified | Lower Schuylkill River | 19146 | Bioinfiltration (3), Bioretention (1), Disconnections (1), Subsurface Detention Basin (2) | 1.4 |
| 2012-HUNT-1764-01 | Combined | Verified | Tacony-Frankford Creek | 19140 | Disconnections (1), Porous Pavement (2) | 1.8 |
| 2012-INGE-1798-01 | Combined | Verified | Delaware Direct | 19121 | Disconnections (1), Subsurface Infiltration Basin (1) | 0.9 |
| 2012-INGL-1949-01 | Combined | Verified | Lower Schuylkill River | 19131 | Bioretention (1), Disconnections (1), Porous Pavement (1), Subsurface Infiltration Basin (2) | 3.9 |
| 2012-LAWR-1945-01 | Combined | Verified | Delaware Direct | 19123 | Green Roof (2), Porous Pavement (1) | 0.4 |
| 2012-LINC-2012-01 | Combined | Verified | Delaware Direct | 19148 | Bioinfiltration (2), Porous Pavement (1) | 1.8 |
| 2012-PENN-1774-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioinfiltration (1), Subsurface Detention Basin (1) | 1.1 |
| 2012-PENN-1946-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioretention (2), Cistern (1), Disconnections (1), Green Roof (7), Porous Pavement (3), Subsurface Infiltration Basin (1) | 1 |
| 2012-PRES-1785-01 | Combined | Verified | Lower Schuylkill River | 19131 | Green Roof (1), Porous Pavement (1) | 0.5 |
| 2012-PROP-1883-01 | Combined | Verified | Tacony-Frankford Creek | 19138 | Subsurface Infiltration Basin (1) | 2.3 |
| 2012-RIVE-2027-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Porous Pavement (2) | 3.3 |
| 2012-RODE-1835-01 | Combined | Verified | Delaware Direct | 19130 | Subsurface Infiltration Basin (1) | 1.3 |
| 2012-SCHU-2065-01 | Combined | Verified | Lower Schuylkill River | 19146 | Bioretention (1), Disconnections (1), Subsurface Detention Basin (3) | 3.3 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2012-SENI-1900-01 | Combined | Verified | Lower Schuylkill River | 19145 | Bioretention (1), Disconnections (1), Subsurface Detention Basin (1) | 0.4 |
| 2012-SOUT-1782-01 | Combined | Verified | Delaware Direct | 19102 | Green Roof (1), Subsurface Detention Basin (1) | 0.8 |
| 2012-SPAR-1850-01 | Combined | Verified | Delaware Direct | 19148 | Bioinfiltration (1), Disconnections (1), Porous Pavement (2) | 0.7 |
| 2012-SPRU-1813-01 | Combined | Verified | Delaware Direct | 19107 | Disconnections (1), Green Roof (1), Subsurface Detention Basin (1) | 0.1 |
| 2012-SR00-2026-01 | Combined | Verified | Delaware Direct | 19125 | Bioinfiltration (34), Bioretention (1) | 2.9 |
| 2012-STFR-1986-01 | Combined | Verified | Delaware Direct | 19125 | Bioretention (1), Disconnections (1), Subsurface Detention Basin (1) | 0.3 |
| 2012-SYSC-1931-01 | Combined | Verified | Delaware Direct | 19148 | Bioretention (1) | 3.9 |
| 2012-TDBA-2047-01 | Combined | Verified | Delaware Direct | 19149 | Bioinfiltration (1), Disconnections (1), Subsurface Infiltration Basin (1) | 1.1 |
| 2012-THEM-1892-01 | Combined | Verified | Delaware Direct | 19106 | Cistern (1), Disconnections (1), Green Roof (1), WQ Treatment Device (1) | 0.8 |
| 2012-TOLL-1898-01 | Combined | Verified | Delaware Direct | 19147 | Disconnections (1), Green Roof (5) | 1.2 |
| 2012-UNIV-1848-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioinfiltration (6), Disconnections (1), Green Roof (1), Porous Pavement (1), Subsurface Detention Basin (2) | 1.6 |
| 2012-WISS-1891-01 | Combined | Verified | Tacony-Frankford Creek | 19138 | Bioretention (2), Disconnections (1) | 1.3 |
| 2013-1118-2248-01 | Combined | Verified | Delaware Direct | 19107 | Green Roof (1), Porous Pavement (1), Subsurface Detention Basin (1) | 0.8 |
| 2013-1300-2120-01 | Combined | Verified | Delaware Direct | 19122 | Bioinfiltration (7), Porous Pavement (1), Subsurface Infiltration Basin (1) | 3.2 |
| 2013-1323-2310-01 | Combined | Verified | Delaware Direct | 19122 | Porous Pavement (1), Subsurface Infiltration Basin (1) | 0.8 |
| 2013-1601-2261-01 | Combined | Verified | Delaware Direct | 19148 | Disconnections (1), Subsurface Infiltration Basin (1) | 1.5 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2013-1900-2151-01 | Combined | Verified | Lower Schuylkill River | 19132 | Bioretention (1), Subsurface Detention Basin (2), Surface Detention Basin (1) | 2 |
| 2013-1901-2109-01 | Combined | Verified | Lower Schuylkill River | 19146 | Green Roof (1), Porous Pavement (1), Subsurface Infiltration Basin (1) | 0.6 |
| 2013-2012-2072-01 | Combined | Verified | Lower Schuylkill River | 19121 | Green Roof (1), Porous Pavement (2) | 0.2 |
| 2013-2300-2240-01 | Combined | Verified | Lower Schuylkill River | 19146 | Bioretention (1), Subsurface Detention Basin (1) | 0.9 |
| 2013-23RD-2272-01 | Combined | Verified | Lower Schuylkill River | 19140 | Disconnections (1), Subsurface Infiltration Basin (1) | 0.6 |
| 2013-2413-2183-01 | Combined | Verified | Delaware Direct | 19132 | Green Roof (1), Subsurface Infiltration Basin (1) | 0.8 |
| 2013-3541-2376-01 | Combined | Verified | Delaware Direct | 19134 | Disconnections (1), Subsurface Infiltration Basin (1) | 1 |
| 2013-4783-2339-01 | Combined | Verified | Pennypack Creek | 19136 | Disconnections (1), Porous Pavement (2), Subsurface Detention Basin (1) | 1.8 |
| 2013-708N-2316-01 | Combined | Verified | Delaware Direct | 19123 | Bioinfiltration (1), Subsurface Infiltration Basin (1) | 0.6 |
| 2013-8268-2116-01 | Combined | Verified | Delaware Direct | 19123 | Subsurface Infiltration Basin (1) | 0.8 |
| 2013-900S-2174-01 | Combined | Verified | Delaware Direct | 19147 | Bioinfiltration (1), Disconnections (1), Porous Pavement (1), Subsurface Infiltration Basin (1) | 1.4 |
| 2013-9THS-2075-01 | Combined | Verified | Delaware Direct | 19123 | Subsurface Infiltration Basin (1) | 4.6 |
| 2013-ALDI-2287-01 | Combined | Verified | Darby Creek | 19151 | Bioretention (4) | 0.3 |
| 2013-CECI-2157-01 | Combined | Verified | Lower Schuylkill River | 19121 | Disconnections (1), Green Roof (1), Subsurface Infiltration Basin (1) | 1.6 |
| 2013-CHOP-2288-01 | Combined | Verified | Delaware Direct | 19145 | Bioretention (1), Porous Pavement (2), Subsurface Detention Basin (1) | 1.2 |
| 2013-CIRA-2405-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Green Roof (1), Subsurface Detention Basin (1) | 0.6 |
| 2013-COBB-2080-01 | Combined | Verified | Cobbs Creek | 19143 | Bioretention (2), Disconnections (1), Subsurface Detention Basin (1) | 0.8 |
| 2013-DREX-2081-01 | Combined | Verified | Lower Schuylkill River | 19104 | Subsurface Detention Basin (1), Surface Detention Basin (3) | 1.3 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2013-EDBE-2293-01 | Combined | Verified | Delaware Direct | 19122 | Subsurface Infiltration Basin (1) | 6.1 |
| 2013-FIRS-2202-01 | Combined | Verified | Delaware Direct | 19124 | Bioinfiltration (7), Disconnections (1) | 6.2 |
| 2013-GRAC-2328-01 | Combined | Verified | Delaware Direct | 19134 | Bioretention (2), Disconnections (1), Subsurface Detention Basin (1) | 0.6 |
| 2013-HALP-2134-01 | Combined | Verified | Lower Schuylkill River | 19121 | Disconnections (1), Subsurface Infiltration Basin (2) | 1.6 |
| 2013-HELP-2241-01 | Combined | Verified | Lower Schuylkill River | 19153 | Disconnections (1), Surface Infiltration Basin (1) | 2 |
| 2013-LIBE-2255-01 | Combined | Verified | Delaware Direct | 19122 | Bioretention (6), Surface Detention Basin (3) | 1 |
| 2013-MAST-2259-01 | Combined | Verified | Lower Schuylkill River | 19121 | Disconnections (1) | 0.6 |
| 2013-MUSE-2346-01 | Combined | Verified | Lower Schuylkill River | 19130 | Disconnections (1), Porous Pavement (1), Subsurface Infiltration Basin (1) | 4.5 |
| 2013-NEUR-2140-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioinfiltration (1), Bioretention (2), Disconnections (1), Green Roof (1), Porous Pavement (1) | 0.4 |
| 2013-NEWC-2114-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioinfiltration (1), Disconnections (1), Green Roof (1), Porous Pavement (2) | 1.4 |
| 2013-ONER-2304-01 | Combined | Verified | Lower Schuylkill River | 19103 | Bioretention (1), Green Roof (1), Subsurface Detention Basin (1) | 0.3 |
| 2013-PARK-2357-01 | Combined | Verified | Lower Schuylkill River | 19130 | Bioinfiltration (1), Disconnections (1) | 1 |
| 2013-PHIL-2299-01 | Combined | Verified | Delaware Direct | 19102 | Disconnections (1), Green Roof (2), Subsurface Detention Basin (1) | 0.2 |
| 2013-PROP-2163-01 | Combined | Verified | Tacony-Frankford Creek | 19141 | Subsurface Infiltration Basin (2) | 1.2 |
| 2013-RESI-2173-01 | Combined | Verified | Cobbs Creek | 19143 | Disconnections (1), Green Roof (1) | 0.1 |
| 2013-RODI-2192-01 | Combined | Verified | Lower Schuylkill River | 19130 | Bio-infiltration/Bio-retention (1), Green Roof (1), Subsurface Detention Basin (1) | 1.6 |
| 2013-SETT-2085-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Bioretention (1), Disconnections (1), Green Roof (1), Porous Pavement (1), Row Connection (1), Subsurface Detention Basin (1) | 2.4 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2013-SHOP-2250-01 | Combined | Verified | Delaware Direct | 19124 | Basin (4), Green Roof (6), Subsurface Detention Basin (1), Subsurface Infiltration Basin (2) | 9.4 |
| 2013-STCH-2103-01 | Combined | Verified | Delaware Direct | 19134 | Bioinfiltration (1), Bioretention (2), Disconnections (1) | 4.6 |
| 2013-STCH-2149-01 | Combined | Verified | Delaware Direct | 19134 | Bioretention (6), Disconnections (1) | 3.8 |
| 2013-TACO-2197-01 | Combined | Verified | Delaware Direct | 19135 | Bioinfiltration (1), Disconnections (1), Subsurface Detention Basin (1) | 2.1 |
| 2013-TAJD-2286-01 | Combined | Verified | Delaware Direct | 19122 | Bioretention (1), Disconnections (1), Green Roof (1), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1) | 1.3 |
| 2013-TALL-2349-01 | Combined | Verified | Delaware Direct | 19133 | Bioinfiltration (1), Subsurface Infiltration Basin (1) | 2.9 |
| 2013-TEMP-2178-01 | Combined | Verified | Delaware Direct | 19140 | Bioretention (1), Subsurface Detention Basin (1) | 1.1 |
| 2013-THES-2177-01 | Combined | Verified | Delaware Direct | 19123 | Subsurface Infiltration Basin (2) | 1.2 |
| 2013-THES-2392-01 | Combined | Verified | Lower Schuylkill River | 19104 | Blue Roof (1), Green Roof (1) | 0.6 |
| 2013-UPEN-2280-01 | Combined | Verified | Lower Schuylkill River | 19104 | Subsurface Infiltration Basin (3) | 1.1 |
| 2014-1123-2645-01 | Combined | Verified | Delaware Direct | 19125 | Basin (1), Subsurface Infiltration Basin (1) | 0.7 |
| 2014-1325-2469-01 | Combined | Verified | Delaware Direct | 19121 | Bioretention (1), Disconnections (1), Subsurface Detention Basin (1) | 0.8 |
| 2014-1326-2422-01 | Combined | Verified | Delaware Direct | 19122 | Subsurface Infiltration Basin (1) | 0.9 |
| 2014-1350-2658-01 | Combined | Verified | Delaware Direct | 19122 | Bioretention (2), Subsurface Infiltration Basin (1) | 1.1 |
| 2014-1515-2746-01 | Combined | Verified | Delaware Direct | 19106 | Porous Pavement (1), Subsurface Infiltration Basin (2) | 0.8 |
| 2014-1601-2434-01 | Combined | Verified | Lower Schuylkill River | 19103 | Bioretention (2), Porous Pavement (1), Subsurface Detention Basin (1) | 0.3 |
| 2014-1601-2440-01 | Combined | Verified | Lower Schuylkill River | 19103 | Bioretention (5), Disconnections (1), Green Roof (1), Subsurface Detention Basin (1) | 0.7 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2014-2013-2751-01 | Combined | Verified | Delaware Direct | 19125 | Porous Pavement (1), Subsurface Infiltration Basin (1) | 0.5 |
| 2014-2201-2677-01 | Combined | Verified | Lower Schuylkill River | 19145 | Subsurface Infiltration Basin (1), WQ Treatment Device (1) | 1.7 |
| 2014-2322-2715-01 | Combined | Verified | Lower Schuylkill River | 19130 | Porous Pavement (1), Subsurface Infiltration Basin (1) | 0.9 |
| 2014-250N-2565-01 | Combined | Verified | Delaware Direct | 19106 | Green Roof (1), Porous Pavement (3) | 1.2 |
| 2014-3600-2426-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioretention (1), Green Roof (1), Subsurface Detention Basin (1), Surface Detention Basin (1) | 1.3 |
| 2014-420F-2574-01 | Combined | Verified | Delaware Direct | 19123 | Disconnections (1), Subsurface Infiltration Basin (2) | 1 |
| 2014-4525-2505-01 | Combined | Verified | Lower Schuylkill River | 19139 | Green Roof (1) | 0.3 |
| 2014-500W-2580-01 | Combined | Verified | Delaware Direct | 19106 | Green Roof (1), Subsurface Detention Basin (1) | 0.4 |
| 2014-5454-2552-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Bioretention (5), Porous Pavement (1), Subsurface Detention Basin (1) | 0.9 |
| 2014-5800-2463-01 | Combined | Verified | Lower Schuylkill River | 19131 | Disconnections (1), Surface Infiltration Basin (1) | 1.2 |
| 2014-63RD-2502-01 | Combined | Verified | Cobbs Creek | 19139 | Subsurface Infiltration Basin (1) | 1.9 |
| 2014-8365-2530-01 | Combined | Verified | Delaware Direct | 19123 | Subsurface Infiltration Basin (1) | 1.5 |
| 2014-ALLE-2455-01 | Combined | Verified | Delaware Direct | 19125 | Disconnections (1), Green Roof (1), Porous Pavement (1) | 0.4 |
| 2014-ALLE-2522-01 | Combined | Verified | Delaware Direct | 19133 | Subsurface Infiltration Basin (1) | 0.8 |
| 2014-BLUM-2711-01 | Combined | Verified | Lower Schuylkill River | 19121 | Porous Pavement (1), Subsurface Infiltration Basin (2) | 2.5 |
| 2014-CHIC-2755-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Subsurface Infiltration Basin (1) | 0.8 |
| 2014-DOLL-2453-01 | Combined | Verified | Delaware Direct | 19135 | Bioretention (1), Subsurface Detention Basin (1) | 1.5 |
| 2014-DREX-2457-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Porous Pavement (2) | 2.5 |
| 2014-ENVI-2646-01 | Combined | Verified | Delaware Direct | 19148 | Bioretention (1), Subsurface Detention Basin (1), Surface Infiltration Basin (4) | 2 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2014-GIRA-2478-01 | Combined | Verified | Delaware Direct | 19107 | Disconnections (1), Green Roof (2), Subsurface Detention Basin (2) | 1.2 |
| 2014-GSTR-2443-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Bioinfiltration (1), Subsurface Infiltration Basin (1) | 1.4 |
| 2014-HUNT-2525-01 | Combined | Verified | Lower Schuylkill River | 19140 | Bioretention (1), Subsurface Detention Basin (1) | 0.9 |
| 2014-LASA-2425-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Bioinfiltration (4), Porous Pavement (1), Subsurface Infiltration Basin (1) | 2.2 |
| 2014-NORT-2603-01 | Combined | Verified | Delaware Direct | 19123 | Bioretention (1), Subsurface Detention Basin (1) | 0.4 |
| 2014-PAND-2762-01 | Combined | Verified | Delaware Direct | 19134 | Subsurface Infiltration Basin (1) | 0.5 |
| 2014-PERE-2472-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Subsurface Detention Basin (2) | 0.6 |
| 2014-PHAG-2547-01 | Combined | Verified | Lower Schuylkill River | 19132 | Bioretention (2), Subsurface Detention Basin (1) | 0.3 |
| 2014-PHAM-2476-01 | Combined | Verified | Lower Schuylkill River | 19121 | Bio-infiltration/Bio-retention (5), Bioretention (27), Subsurface Detention Basin (10) | 1.6 |
| 2014-PHAO-2459-01 | Combined | Verified | Lower Schuylkill River | 19132 | Bioretention (1), Porous Pavement (1), Subsurface Detention Basin (1) | 0.4 |
| 2014-SEPT-2614-01 | Combined | Verified | Delaware Direct | 19124 | Disconnections (1), Green Roof (1) | 0.3 |
| 2014-STEN-2616-01 | Combined | Verified | Tacony-Frankford Creek | 19140 | Disconnections (1), Porous Pavement (1), Subsurface Infiltration Basin (1) | 0.7 |
| 2014-STJO-2424-01 | Combined | Verified | Delaware Direct | 19122 | Disconnections (1), Subsurface Infiltration Basin (3) | 6.9 |
| 2014-TEMP-2699-01 | Combined | Verified | Delaware Direct | 19121 | Porous Pavement (1) | 0.4 |
| 2014-TRUE-2595-01 | Combined | Verified | Delaware Direct | 19123 | Subsurface Infiltration Basin (1) | 1.5 |
| 2014-UNIV-2747-01 | Combined | Verified | Lower Schuylkill River | 19104 | Porous Pavement (1) | 0.5 |
| 2014-VERN-2690-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Disconnections (1), Porous Pavement (2) | 0.5 |
| 2014-VONC-2749-01 | Combined | Verified | Lower Schuylkill River | 19130 | Disconnections (1), Subsurface Infiltration Basin (1) | 0.5 |
| 2014-WEST-2612-01 | Combined | Verified | Lower Schuylkill River | 19121 | Disconnections (1), Porous Pavement (1), Subsurface Infiltration Basin (1) | 1.9 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2014-WISS-2641-01 | Combined | Verified | Delaware Direct | 19135 | Disconnections (1), Porous Pavement (1) | 0.4 |
| 2015-1002-2906-01 | Combined | Verified | Delaware Direct | 19123 | Bioinfiltration (3), Porous Pavement (1), Subsurface Detention Basin (1) | 0.9 |
| 2015-2338-2915-01 | Combined | Verified | Delaware Direct | 19125 | Subsurface Infiltration Basin (1) | 0.8 |
| 2015-2517-2803-01 | Combined | Verified | Delaware Direct | 19134 | Green Roof (1), Porous Pavement (2), Subsurface Detention Basin (1) | 0.4 |
| 2015-3201-2786-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioretention (1), Disconnections (1), Green Roof (2), Subsurface Detention Basin (2) | 0.3 |
| 2015-3675-2955-01 | Combined | Verified | Lower Schuylkill River | 19104 | Green Roof (1), Porous Pavement (1), Subsurface Detention Basin (2) | 0.7 |
| 2015-4050-2828-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioretention (1), Disconnections (1), Subsurface Detention Basin (1) | 0.7 |
| 2015-40TH-2780-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Subsurface Infiltration Basin (2) | 1.2 |
| 2015-7092-2945-01 | Combined | Verified | Delaware Direct | 19147 | Disconnections (1), Porous Pavement (1), Subsurface Infiltration Basin (1) | 0.7 |
| 2015-8385-2856-01 | Combined | Verified | Delaware Direct | 19123 | Basin (1), Bio-infiltration/Bio-retention (1), Cistern (1), Subsurface Infiltration Basin (1) | 1.8 |
| 2015-CAMD-2769-01 | Combined | Verified | Delaware Direct | 19134 | Surface Infiltration Basin (1) | 3.4 |
| 2015-DLAT-2926-01 | Combined | Verified | Delaware Direct | 19120 | Bioretention (3), Disconnections (1), Green Roof (1), Porous Pavement (1), Subsurface Detention Basin (8) | 8 |
| 2015-GAUD-2962-01 | Combined | Verified | Lower Schuylkill River | 19140 | Bioretention (1), Porous Pavement (3), Subsurface Detention Basin (1) | 0.6 |
| 2015-GROC-2925-01 | Combined | Verified | Delaware Direct | 19137 | Bioretention (2), Subsurface Detention Basin (1) | 2.6 |
| 2015-JFKP-2951-01 | Combined | Verified | Lower Schuylkill River | 19102 | Disconnections (1), Green Roof (1), Subsurface Detention Basin (2) | 1.1 |
| 2015-LANI-2871-01 | Combined | Verified | Lower Schuylkill River | 19145 | Disconnections (1), Porous Pavement (2) | 0.3 |
| 2015-LASA-2848-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Bioinfiltration (2), Porous Pavement (1) | 1.1 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2015-PHIL-2919-01 | Combined | Verified | Delaware Direct | 19148 | Bioretention (4), Disconnections (1), Green Roof (1), Porous Pavement (3), Subsurface Detention Basin (2) | 7.1 |
| 2015-PHIL-2969-01 | Combined | Verified | Lower Schuylkill River | 19130 | Cistern (1), Subsurface Infiltration Basin (1), WQ Treatment Device (1) | 3.2 |
| 2015-PHIL-2982-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Green Roof (1), Subsurface Detention Basin (1) | 0.3 |
| 2015-ROBE-2975-01 | Combined | Verified | Tacony-Frankford Creek | 19140 | Bioretention (1), Subsurface Detention Basin (1) | 0.5 |
| 2015-ROYA-2911-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Disconnections (1), Subsurface Infiltration Basin (2), Surface Detention Basin (1), Surface Infiltration Basin (3) | 4.4 |
| 2015-SOUT-2956-01 | Combined | Verified | Lower Schuylkill River | 19145 | Bioretention (1), Subsurface Detention Basin (2) | 5.1 |
| 2015-TEMP-2829-01 | Combined | Verified | Delaware Direct | 19122 | Porous Pavement (1), Subsurface Infiltration Basin (1) | 0.3 |
| 2015-TEMP-2964-01 | Combined | Verified | Delaware Direct | 19122 | Porous Pavement (1), Subsurface Infiltration Basin (3) | 12.3 |
| 2015-TULI-2824-01 | Combined | Verified | Delaware Direct | 19122 | Disconnections (1), Green Roof (1), Porous Pavement (1), Row Connection (2), Subsurface Infiltration Basin (2) | 3.3 |
| 2015-UCHS-2939-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioretention (1), Disconnections (1), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1) | 3.2 |
| 2015-WAYN-2771-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Disconnections (1), Porous Pavement (1), Subsurface Infiltration Basin (1) | 1.2 |
| 2015-WYNN-2986-01 | Combined | Verified | Lower Schuylkill River | 19131 | Disconnections (1), Porous Pavement (1), Subsurface Infiltration Basin (1) | 0.7 |
| FY16-ADAM-4220-01 | Combined | Verified | Tacony-Frankford Creek | 19120 | Bioinfiltration (1), Subsurface Infiltration Basin (1) | 1.1 |
| FY16-BARI-4074-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Subsurface Infiltration Basin (1) | 0.8 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY16-BELM-4239-01 | Combined | Verified | Lower Schuylkill River | 19131 | Bio-infiltration/Bio-retention (5), Bioretention (1), Porous Pavement (2), Subsurface Detention Basin (4), WQ Treatment Device (1) | 6.6 |
| FY16-BERN-4350-01 | Combined | Verified | Lower Schuylkill River | 19121 | Subsurface Infiltration Basin (1) | 1.4 |
| FY16-CENT-138-01 | Combined | Verified | Lower Schuylkill River | 19131 | Disconnections (1), Surface Detention Basin (1), WQ Treatment Device (1) | 0.5 |
| FY16-COLU-4303-01 | Combined | Verified | Delaware Direct | 19147 | Disconnections (1), Subsurface Infiltration Basin (1) | 0.9 |
| FY16-DREX-4244-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Porous Pavement (1) | 1 |
| FY16-EAST-4017-01 | Combined | Verified | Delaware Direct | 19125 | Subsurface Infiltration Basin (1) | 0.7 |
| FY16-EAST-4179-01 | Combined | Verified | Delaware Direct | 19134 | Bioinfiltration (1), Disconnections (1) | 0.5 |
| FY16-FAIR-4011-01 | Combined | Verified | Delaware Direct | 19123 | Subsurface Infiltration Basin (1) | 1.4 |
| FY16-FEDE-4201-01 | Combined | Verified | Lower Schuylkill River | 19146 | Subsurface Infiltration Basin (1) | 0.9 |
| FY16-FIVE-4029-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Bioinfiltration (1), Bioretention (1), Subsurface Infiltration Basin (1) | 1 |
| FY16-FRAN-4076-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Disconnections (1) | 0 |
| FY16-HANO-4040-01 | Combined | Verified | Lower Schuylkill River | 19107 | Subsurface Detention Basin (2) | 2.7 |
| FY16-HELP-4027-01 | Combined | Verified | Delaware Direct | 19123 | Disconnections (1), Subsurface Infiltration Basin (1) | 0.3 |
| FY16-JACK-4123-01 | Combined | Verified | Delaware Direct | 19124 | Disconnections (1), Green Roof (1), Porous Pavement (2), Subsurface Infiltration Basin (2) | 2.2 |
| FY16-KENS-4216-01 | Combined | Verified | Delaware Direct | 19125 | Basin (1), Bioinfiltration (1), Porous Pavement (3) | 0.8 |
| FY16-LAND-4251-01 | Combined | Verified | Lower Schuylkill River | 19104 | Green Roof (2), Porous Pavement (2), Subsurface Detention Basin (2), WQ Treatment Device (2) | 0.5 |
| FY16-LASA-4354-01 | Combined | Verified | Tacony-Frankford Creek | 19141 | Disconnections (1), Porous Pavement (1) | 0.2 |
| FY16-LINC-4309-01 | Combined | Verified | Delaware Direct | 19146 | Disconnections (1), Green Roof (1), Porous Pavement (1), Subsurface Infiltration Basin (1) | 4.1 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY16-LOVE-4088-01 | Combined | Verified | Tacony-Frankford Creek | 19119 | Bioinfiltration (1), Disconnections (1), Green Roof (1) | 0.3 |
| FY16-LUCI-4053-01 | Combined | Verified | Lower Schuylkill River | 19139 | Disconnections (1) | 0.3 |
| FY16-NATI-4211-01 | Combined | Verified | Delaware Direct | 19106 | Subsurface Detention Basin (1) | 1.6 |
| FY16-NFRO-4270-01 | Combined | Verified | Delaware Direct | 19122 | Subsurface Infiltration Basin (1) | 1.2 |
| FY16-NTHS-4317-01 | Combined | Verified | Delaware Direct | 19123 | Bioinfiltration (1), Bioretention (3), Porous Pavement (1) | 2.1 |
| FY16-PROJ-4329-01 | Combined | Verified | Delaware Direct | 19122 | Disconnections (1), Green Roof (2), Porous Pavement (1), Subsurface Infiltration Basin (1) | 0.4 |
| FY16-PROP-4298-01 | Combined | Verified | Lower Schuylkill River | 19103 | Green Roof (1), Surface Detention Basin (1) | 0.4 |
| FY16-RACE-4127-01 | Combined | Verified | Delaware Direct | 19106 | Disconnections (1), Porous Pavement (1), Subsurface Detention Basin (1), WQ Treatment Device (1) | 2 |
| FY16-SIMP-4337-01 | Combined | Verified | Lower Schuylkill River | 19131 | Bioinfiltration (2), Disconnections (1), Subsurface Infiltration Basin (1) | 1.4 |
| FY16-SLSI-4253-01 | Combined | Verified | Delaware Direct | 19107 | Subsurface Detention Basin (1) | 0.9 |
| FY16-SMIT-4151-01 | Combined | Verified | Lower Schuylkill River | 19146 | Disconnections (1), Porous Pavement (1) | 4.3 |
| FY16-STJO-4085-01 | Combined | Verified | Lower Schuylkill River | 19145 | Bioretention (1), Porous Pavement (1), Subsurface Detention Basin (1) | 1.7 |
| FY16-STRC-4364-01 | Combined | Verified | Delaware Direct | 19146 | Bioretention (1), Subsurface Detention Basin (2) | 0.7 |
| FY16-TEMP-4178-01 | Combined | Verified | Delaware Direct | 19121 | Bioretention (1), Porous Pavement (1), Subsurface Detention Basin (1) | 4.2 |
| FY16-TEMP-4277-01 | Combined | Verified | Delaware Direct | 19122 | Porous Pavement (1) | 0.4 |
| FY16-THCH-4142-01 | Combined | Verified | Lower Schuylkill River | 19102 | Blue Roof (6), Green Roof (3), Subsurface Detention Basin (2), WQ Treatment Device (1) | 1.3 |
| FY16-UCHS-4213-01 | Combined | Verified | Lower Schuylkill River | 19104 | | 0 |
| FY16-USCI-4261-01 | Combined | Verified | Lower Schuylkill River | 19143 | Bioinfiltration (3), Bioretention (2), Porous Pavement (2) | 1.4 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY16-WASH-4360-01 | Combined | Verified | Lower Schuylkill River | 19146 | Bioinfiltration (1), Subsurface Infiltration Basin (1) | 2.4 |
| FY17-ABIG-4691-01 | Combined | Verified | Delaware Direct | 19148 | Bio-infiltration/Bio-retention (2), Subsurface Infiltration Basin (2) | 0.8 |
| FY17-ALDI-4565-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Bioretention (12), Disconnections (1), Subsurface Detention Basin (1), WQ Treatment Device (1) | 3.7 |
| FY17-AUTO-4659-01 | Combined | Verified | Delaware Direct | 19148 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 1.2 |
| FY17-BROA-4539-01 | Combined | Verified | Lower Schuylkill River | 19130 | Disconnections (1), Subsurface Detention Basin (1) | 1 |
| FY17-CAMP-4378-01 | Combined | Verified | Lower Schuylkill River | 19140 | Disconnections (1), Subsurface Infiltration Basin (1) | 0.9 |
| FY17-CANT-4433-01 | Combined | Verified | Delaware Direct | 19148 | Blue Roof (2), Disconnections (1), Porous Pavement (3) | 0.9 |
| FY17-CAPR-4725-01 | Combined | Verified | Lower Schuylkill River | 19147 | Subsurface Infiltration Basin (1) | 3.5 |
| FY17-CARV-4503-01 | Combined | Verified | Delaware Direct | 19123 | Disconnections (1), Subsurface Infiltration Basin (1) | 1.7 |
| FY17-EALL-4578-01 | Combined | Verified | Delaware Direct | 19125 | Porous Pavement (1), Subsurface Infiltration Basin (1) | 0.9 |
| FY17-EAST-4468-01 | Combined | Verified | Lower Schuylkill River | 19121 | Subsurface Detention Basin (1) | 1.1 |
| FY17-EAST-4640-01 | Combined | Verified | Cobbs Creek | 19139 | Basin (1), Bioinfiltration (5), Blue Roof (1), Disconnections (1), Green Roof (1), Subsurface Detention Basin (1), WQ Treatment Device (1) | 2.3 |
| FY17-EGIR-4646-01 | Combined | Verified | Delaware Direct | 19125 | Green Roof (1), Porous Pavement (1) | 0.5 |
| FY17-ETIO-4590-01 | Combined | Verified | Delaware Direct | 19134 | Subsurface Infiltration Basin (1) | 3.8 |
| FY17-GROC-4379-01 | Combined | Verified | Delaware Direct | 19148 | Disconnections (1), Subsurface Detention Basin (2), WQ Treatment Device (2) | 6.5 |
| FY17-HAMP-4618-01 | Combined | Verified | Delaware Direct | 19111 | Bioinfiltration (2), Disconnections (1) | 2.5 |
| FY17-LEED-4633-01 | Combined | Verified | Tacony-Frankford Creek | 19150 | Bioinfiltration (7) | 5.2 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY17-LUCI-4480-01 | Combined | Verified | Lower Schuylkill River | 19139 | Disconnections (1), Porous Pavement (2), Subsurface Detention Basin (1), Surface Detention Basin (1), WQ Treatment Device (2) | 1 |
| FY17-MALB-4466-01 | Combined | Verified | Delaware Direct | 19125 | Porous Pavement (1), Subsurface Infiltration Basin (1) | 0.7 |
| FY17-NBRO-4434-01 | Combined | Verified | Delaware Direct | 19121 | Bioinfiltration (1), Porous Pavement (1), Subsurface Detention Basin (1) | 0.9 |
| FY17-NORT-4607-01 | Combined | Verified | Lower Schuylkill River | 19121 | Subsurface Infiltration Basin (1) | 1.2 |
| FY17-NTHS-4495-01 | Combined | Verified | Lower Schuylkill River | 19130 | Green Roof (2), Subsurface Detention Basin (1) | 0.9 |
| FY17-NTHS-4672-01 | Combined | Verified | Delaware Direct | 19122 | Porous Pavement (1), Row Connection (2), Subsurface Infiltration Basin (1) | 3 |
| FY17-PESS-4511-01 | Combined | Verified | Lower Schuylkill River | 19145 | Surface Detention Basin (5) | 9.6 |
| FY17-PHAA-4543-01 | Combined | Verified | Lower Schuylkill River | 19121 | Porous Pavement (1), Subsurface Infiltration Basin (1) | 0.7 |
| FY17-PHAN-4699-01 | Combined | Verified | Delaware Direct | 19122 | Disconnections (1), Porous Pavement (1), Row Connection (1), Subsurface Detention Basin (1), WQ Treatment Device (1) | 2.5 |
| FY17-PHIL-4417-01 | Combined | Verified | Delaware Direct | 19121 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 2.4 |
| FY17-POPL-4664-01 | Combined | Verified | Delaware Direct | 19123 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 0.6 |
| FY17-PRAT-4660-01 | Combined | Verified | Delaware Direct | 19124 | Disconnections (2), Porous Pavement (1), Surface Infiltration Basin (1) | 0.5 |
| FY17-QUAK-4387-01 | Combined | Verified | Lower Schuylkill River | 19121 | Subsurface Infiltration Basin (1) | 5.1 |
| FY17-REED-4474-01 | Combined | Verified | Delaware Direct | 19147 | Disconnections (1), Subsurface Infiltration Basin (1) | 1.5 |
| FY17-RIDG-4764-01 | Combined | Verified | Delaware Direct | 19130 | Bioinfiltration (1), Green Roof (1), Porous Pavement (1), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1) | 5.1 |
| FY17-ROWE-4634-01 | Combined | Verified | Tacony-Frankford Creek | 19126 | Bioinfiltration (1) | 1.2 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY17-SENI-4411-01 | Combined | Verified | Lower Schuylkill River | 19145 | Disconnections (1), Porous Pavement (1), Subsurface Detention Basin (1), WQ Treatment Device (1) | 1 |
| FY17-SOUT-4486-01 | Combined | Verified | Lower Schuylkill River | 19104 | Green Roof (1), Subsurface Infiltration Basin (1) | 0.6 |
| FY17-SPRU-4443-01 | Combined | Verified | Lower Schuylkill River | 19139 | Subsurface Infiltration Basin (1) | 1.1 |
| FY17-STHS-4669-01 | Combined | Verified | Lower Schuylkill River | 19146 | Green Roof (1), Porous Pavement (1) | 0.6 |
| FY17-STHS-4755-01 | Combined | Verified | Lower Schuylkill River | 19146 | Subsurface Infiltration Basin (1) | 1.2 |
| FY17-STPI-4413-01 | Combined | Verified | Cobbs Creek | 19143 | Bioinfiltration (1), Disconnections (1) | 0.5 |
| FY17-TEMP-4573-01 | Combined | Verified | Delaware Direct | 19122 | Disconnections (1), Porous Pavement (1) | 0.2 |
| FY17-THAN-4446-01 | Combined | Verified | Lower Schuylkill River | 19146 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 1 |
| FY17-VIEW-4457-01 | Combined | Verified | Delaware Direct | 19122 | Bioinfiltration (1), Disconnections (1), Green Roof (1), Porous Pavement (1), Row Connection (1), Subsurface Infiltration Basin (3) | 4.1 |
| FY17-WALM-4419-01 | Combined | Verified | Tacony-Frankford Creek | 19114 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 15.7 |
| FY17-WEND-4527-01 | Combined | Verified | Cobbs Creek | 19139 | Subsurface Infiltration Basin (1) | 1.3 |
| FY17-WGOD-4567-01 | Combined | Verified | Tacony-Frankford Creek | 19141 | Disconnections (1), Porous Pavement (1), Subsurface Infiltration Basin (1) | 1.1 |
| FY17-WHAR-4726-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Green Roof (1), Porous Pavement (1), Subsurface Infiltration Basin (1) | 1.6 |
| FY17-WIDE-4636-01 | Combined | Verified | Tacony-Frankford Creek | 19141 | Bioinfiltration (1) | 4.5 |
| FY17-WYNN-4704-01 | Combined | Verified | Lower Schuylkill River | 19131 | Disconnections (1), Subsurface Infiltration Basin (2) | 0.8 |
| FY17-XXXX-4458-01 | Combined | Verified | Lower Schuylkill River | 19131 | Subsurface Infiltration Basin (1) | 2.2 |
| FY18-ALBE-4973-01 | Combined | Verified | Tacony-Frankford Creek | 19141 | Disconnections (1), Subsurface Infiltration Basin (1) | 1.9 |
| FY18-BART-5075-01 | Combined | Verified | Lower Schuylkill River | 19143 | Subsurface Infiltration Basin (1) | 6.1 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY18-BERK-4853-01 | Combined | Verified | Delaware Direct | 19122 | Bioretention (1), Subsurface Detention Basin (1) | 1.5 |
| FY18-CENT-5008-01 | Combined | Verified | Tacony-Frankford Creek | 19141 | Bioinfiltration (6), Disconnections (1), Porous Pavement (3), Subsurface Infiltration Basin (3) | 5.6 |
| FY18-CHES-4832-01 | Combined | Verified | Lower Schuylkill River | 19104 | Green Roof (1), Porous Pavement (1) | 0.2 |
| FY18-CHES-4975-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioretention (1), Disconnections (1), Green Roof (1), Porous Pavement (1), Subsurface Detention Basin (1) | 1.2 |
| FY18-DEST-4909-01 | Combined | Verified | Delaware Direct | 19123 | Subsurface Infiltration Basin (1) | 5.9 |
| FY18-ELEH-4835-01 | Combined | Verified | Delaware Direct | 19125 | Porous Pavement (1), Subsurface Infiltration Basin (3) | 6.6 |
| FY18-ENOR-4838-01 | Combined | Verified | Delaware Direct | 19125 | Bioinfiltration (1), Porous Pavement (1) | 0.9 |
| FY18-ENOR-5080-01 | Combined | Verified | Delaware Direct | 19122 | Disconnections (1), Green Roof (1), Porous Pavement (3) | 0.4 |
| FY18-GALA-5145-01 | Combined | Verified | Tacony-Frankford Creek | 19138 | Bio-infiltration/Bio-retention (2), Subsurface Detention Basin (1) | 0.6 |
| FY18-GERM-4880-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Green Roof (1), Porous Pavement (2) | 0.3 |
| FY18-HAMI-4900-01 | Combined | Verified | Lower Schuylkill River | 19130 | Green Roof (1), Subsurface Detention Basin (1), WQ Treatment Device (1) | 0.7 |
| FY18-HSTX-5076-01 | Combined | Verified | Delaware Direct | 19134 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 1.3 |
| FY18-IRVI-4922-01 | Combined | Verified | Cobbs Creek | 19143 | Porous Pavement (2) | 0.8 |
| FY18-LABO-5153-01 | Combined | Verified | Delaware Direct | 19122 | Porous Pavement (1), Subsurface Detention Basin (1), WQ Treatment Device (1) | 1.8 |
| FY18-MERC-4857-01 | Combined | Verified | Cobbs Creek | 19143 | Disconnections (1), Subsurface Detention Basin (1), WQ Treatment Device (1) | 0.5 |
| FY18-MIXE-4990-01 | Combined | Verified | Delaware Direct | 19123 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 8.1 |
| FY18-MOOR-5105-01 | Combined | Verified | Delaware Direct | 19148 | Disconnections (1), Green Roof (1), Porous Pavement (1) | 0.5 |
| FY18-NCHW-5147-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioretention (4), Disconnections (1), Green Roof (1), Porous Pavement (2), Subsurface Detention Basin (1) | 2 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY18-NICO-5166-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Disconnections (1), Row Connection (1), Subsurface Infiltration Basin (2) | 2.6 |
| FY18-NORT-4881-01 | Combined | Verified | Delaware Direct | 19122 | Subsurface Detention Basin (1) | 1 |
| FY18-NRDS-4851-01 | Combined | Verified | Lower Schuylkill River | 19103 | Subsurface Infiltration Basin (1) | 0.8 |
| FY18-NRDS-5015-01 | Combined | Verified | Delaware Direct | 19123 | Subsurface Infiltration Basin (1) | 1 |
| FY18-PARK-4775-01 | Combined | Verified | Lower Schuylkill River | 19131 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 1.6 |
| FY18-PARK-4896-01 | Combined | Verified | Lower Schuylkill River | 19131 | Disconnections (1) | 0.1 |
| FY18-PEAB-4939-01 | Combined | Verified | Delaware Direct | 19122 | Disconnections (1), Porous Pavement (1) | 0.1 |
| FY18-PERK-5001-01 | Combined | Verified | Delaware Direct | 19130 | Disconnections (1), Green Roof (1), Porous Pavement (1) | 0.3 |
| FY18-PHAS-4886-01 | Combined | Verified | Delaware Direct | 19148 | Bioretention (3), Disconnections (1) | 2.5 |
| FY18-PHIL-5038-01 | Combined | Verified | Delaware Direct | 19107 | Subsurface Detention Basin (2), WQ Treatment Device (2) | 1.6 |
| FY18-PORT-4941-01 | Combined | Verified | Delaware Direct | 19125 | Disconnections (1), Subsurface Detention Basin (1), WQ Treatment Device (1) | 3.6 |
| FY18-PROJ-4946-01 | Combined | Verified | Lower Schuylkill River | 19131 | Bioinfiltration (1), Bioretention (1) | 8.4 |
| FY18-PROV-5053-01 | Combined | Verified | Pennypack Creek | 19114 | Bioinfiltration (1), Disconnections (1), Subsurface Infiltration Basin (1) | 2.8 |
| FY18-QWEQ-5128-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Subsurface Infiltration Basin (2) | 1.6 |
| FY18-RAND-5042-01 | Combined | Verified | Delaware Direct | 19122 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 1.2 |
| FY18-RENO-4879-01 | Combined | Verified | Cobbs Creek | 19143 | Bioinfiltration (1), Depave (1) | 2.6 |
| FY18-SOLI-4855-01 | Combined | Verified | Delaware Direct | 19149 | Disconnections (1), Subsurface Detention Basin (3), WQ Treatment Device (2) | 10.3 |
| FY18-SUSQ-5052-01 | Combined | Verified | Lower Schuylkill River | 19132 | Bioretention (1) | 1.9 |
| FY18-UHAU-5117-01 | Combined | Verified | Delaware Direct | 19125 | Subsurface Detention Basin (1) | 1.9 |
| FY18-WALN-4820-01 | Combined | Verified | Cobbs Creek | 19139 | Subsurface Infiltration Basin (1) | 0.7 |
| FY18-WEST-5167-01 | Combined | Verified | Delaware Direct | 19123 | Bioretention (2) | 0.6 |
| FY18-WEST-5171-01 | Combined | Verified | Lower Schuylkill River | 19131 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 0.9 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY19-AUTO-5287-01 | Combined | Verified | Lower Schuylkill River | 19145 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 0.6 |
| FY19-CASA-5240-01 | Combined | Verified | Delaware Direct | 19133 | Subsurface Infiltration Basin (1) | 0.9 |
| FY19-CAST-5293-01 | Combined | Verified | Delaware Direct | 19111 | Bioretention (1), Row Connection (4), Subsurface Detention Basin (1) | 1 |
| FY19-CENT-5325-01 | Combined | Verified | Lower Schuylkill River | 19130 | Disconnections (1), Porous Pavement (1) | 0.4 |
| FY19-CHES-5484-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioretention (1), Green Roof (1) | 0.9 |
| FY19-CHOP-5421-01 | Combined | Verified | Lower Schuylkill River | 19104 | Subsurface Detention Basin (1) | 2.5 |
| FY19-CIOC-5507-01 | Combined | Verified | Lower Schuylkill River | 19125 | Disconnections (1), Green Roof (1), Subsurface Detention Basin (1) | 1.4 |
| FY19-DREX-5307-01 | Combined | Verified | Lower Schuylkill River | 19104 | Subsurface Infiltration Basin (1) | 0.5 |
| FY19-FRAN-5510-01 | Combined | Verified | Delaware Direct | 19125 | Green Roof (1), Porous Pavement (2) | 0.3 |
| FY19-GERM-5351-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Bio-infiltration/Bio-retention (15), Disconnections (1), Green Roof (1), Porous Pavement (1) | 0.3 |
| FY19-LANC-5567-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bioretention (2), Disconnections (1), Green Roof (1), Subsurface Detention Basin (1), WQ Treatment Device (1) | 3 |
| FY19-MARK-5603-01 | Combined | Verified | Lower Schuylkill River | 19139 | Bioinfiltration (4), Green Roof (2) | 6.4 |
| FY19-MOOR-5381-01 | Combined | Verified | Delaware Direct | 19148 | Green Roof (6), Porous Pavement (1) | 0.4 |
| FY19-NORT-5502-01 | Combined | Verified | Delaware Direct | 19122 | Bioinfiltration (1), Porous Pavement (3), Subsurface Infiltration Basin (2) | 3.6 |
| FY19-NRDS-5400-01 | Combined | Verified | Lower Schuylkill River | 19151 | Green Roof (7), Porous Pavement (2) | 0.7 |
| FY19-ONEU-5522-01 | Combined | Verified | Lower Schuylkill River | 19104 | Green Roof (3), Subsurface Detention Basin (2), WQ Treatment Device (2) | 2.1 |
| FY19-PHAS-5542-01 | Combined | Verified | Delaware Direct | 19121 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 7.8 |
| FY19-POPL-5344-01 | Combined | Verified | Lower Schuylkill River | 19131 | Subsurface Detention Basin (1) | 0.7 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY19-SCHU-5429-01 | Combined | Verified | Lower Schuylkill River | 19104 | Basin (1), Green Roof (2), Porous Pavement (2), Subsurface Detention Basin (2), WQ Treatment Device (2) | 2 |
| FY19-SUPR-5371-01 | Combined | Verified | Lower Schuylkill River | 19131 | Bioretention (2) | 4.4 |
| FY19-TEMP-5500-01 | Combined | Verified | Delaware Direct | 19122 | Green Roof (1) | 0.3 |
| FY19-THPO-5411-01 | Combined | Verified | Lower Schuylkill River | 19130 | Green Roof (1), Subsurface Infiltration Basin (1) | 1.2 |
| FY19-WEST-5622-01 | Combined | Verified | Delaware Direct | 19123 | Disconnections (2), Subsurface Detention Basin (1) | 0.8 |
| FY19-WHIT-5544-01 | Combined | Verified | Cobbs Creek | 19143 | Green Roof (1), Porous Pavement (1) | 0.2 |
| FY20-ABLE-5713-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Subsurface Detention Basin (1) | 1.6 |
| FY20-BEAG-5789-01 | Combined | Verified | Delaware Direct | 19140 | Porous Pavement (1), Subsurface Infiltration Basin (1) | 1.3 |
| FY20-BROA-5648-01 | Combined | Verified | Lower Schuylkill River | 19123 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 1 |
| FY20-CALL-5892-01 | Combined | Verified | Delaware Direct | 19123 | Subsurface Detention Basin (1) | 1 |
| FY20-EAST-5780-01 | Combined | Verified | Delaware Direct | 19107 | Subsurface Detention Basin (2) | 2.5 |
| FY20-GREA-6054-01 | Combined | Verified | Pennypack Creek | 19149 | Subsurface Infiltration Basin (2) | 1.4 |
| FY20-HELP-5666-01 | Combined | Verified | Lower Schuylkill River | 19121 | Bioinfiltration (1), Disconnections (1) | 0.4 |
| FY20-MARK-5754-01 | Combined | Verified | Lower Schuylkill River | 19103 | Subsurface Detention Basin (1) | 0.6 |
| FY20-NAME-5896-01 | Combined | Verified | Delaware Direct | 19122 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 1.2 |
| FY20-NAME-5942-01 | Combined | Verified | Delaware Direct | 19122 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 1.3 |
| FY20-NHOW-5665-01 | Combined | Verified | Delaware Direct | 19122 | Green Roof (1), Porous Pavement (1), Subsurface Detention Basin (1), WQ Treatment Device (1) | 0.8 |
| FY20-NHOW-6016-01 | Combined | Verified | Delaware Direct | 19122 | Subsurface Infiltration Basin (1) | 1.1 |
| FY20-NORT-5847-01 | Combined | Verified | Delaware Direct | 19122 | Green Roof (1), Subsurface Detention Basin (1) | 0.4 |
| FY20-PENN-5669-01 | Combined | Verified | Lower Schuylkill River | 19104 | Bio-infiltration/Bio-retention (1), Subsurface Detention Basin (2), WQ Treatment Device (2) | 3.8 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY20-PHIL-6012-01 | Combined | Verified | Cobbs Creek | 19142 | Porous Pavement (1), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1), WQ Treatment Device (1) | 0.8 |
| FY20-RACE-5746-01 | Combined | Verified | Lower Schuylkill River | 19103 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 0.6 |
| FY20-ROMO-5984-01 | Combined | Verified | Tacony-Frankford Creek | 19120 | Subsurface Infiltration Basin (1) | 3.1 |
| FY20-SANS-5906-01 | Combined | Verified | Lower Schuylkill River | 19103 | Subsurface Detention Basin (1) | 0.7 |
| FY20-SPRI-5857-01 | Combined | Verified | Delaware Direct | 19123 | Subsurface Detention Basin (2) | 4.7 |
| FY20-SPRI-5940-01 | Combined | Verified | Lower Schuylkill River | 19104 | Green Roof (1), Porous Pavement (1) | 0.4 |
| FY20-STHS-5985-01 | Combined | Verified | Delaware Direct | 19107 | Subsurface Detention Basin (1) | 0.4 |
| FY20-SUMM-5803-01 | Combined | Verified | Delaware Direct | 19124 | Bioretention (4), Subsurface Detention Basin (1) | 24 |
| FY20-TRIA-5749-01 | Combined | Verified | Lower Schuylkill River | 19104 | Porous Pavement (1), Subsurface Detention Basin (1), WQ Treatment Device (2) | 1 |
| FY20-WCLE-5888-01 | Combined | Verified | Lower Schuylkill River | 19139 | Bioinfiltration (4), Porous Pavement (2), Row Connection (9), Subsurface Infiltration Basin (1) | 3.8 |
| FY20-WECC-5809-01 | Combined | Verified | Delaware Direct | 19148 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 2 |
| FY20-WOOD-5724-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Porous Pavement (2), Subsurface Detention Basin (1) | 0.6 |
| FY21-ANDR-6472-01 | Combined | Verified | Cobbs Creek | 19139 | Bioinfiltration (1) | 0.7 |
| FY21-AWFP-6317-01 | Combined | Verified | Lower Schuylkill River | 19140 | Subsurface Infiltration Basin (1) | 1.2 |
| FY21-BLUM-6486-01 | Combined | Verified | Lower Schuylkill River | 19121 | Bioinfiltration (1), Disconnections (1), Green Roof (1), Porous Pavement (2), Row Connection (2) | 1.6 |
| FY21-CALL-6381-01 | Combined | Verified | Delaware Direct | 19123 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 1.3 |
| FY21-CAPI-6232-01 | Combined | Verified | Delaware Direct | 19147 | Disconnections (1) | 0 |
| FY21-CHES-6248-01 | Combined | Verified | Lower Schuylkill River | 19104 | Green Roof (1), Porous Pavement (1) | 0.2 |
| FY21-CVSP-6101-01 | Combined | Verified | Delaware Direct | 19134 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 1 |
| FY21-EERI-6375-01 | Combined | Verified | Delaware Direct | 19134 | Subsurface Detention Basin (2), WQ Treatment Device (1) | 16.5 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY21-ELMW-6094-01 | Combined | Verified | Lower Schuylkill River | 19142 | Bioretention (1), Disconnections (1), Subsurface Detention Basin (1), WQ Treatment Device (1) | 22.8 |
| FY21-GRAY-6449-01 | Combined | Verified | Lower Schuylkill River | 19146 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 1.2 |
| FY21-HUNT-6391-01 | Combined | Verified | Tacony-Frankford Creek | 19140 | Disconnections (1), Subsurface Detention Basin (1), WQ Treatment Device (1) | 1.4 |
| FY21-MURP-6508-01 | Combined | Verified | Delaware Direct | 19148 | Subsurface Infiltration Basin (1), Surface Infiltration Basin (1), WQ Treatment Device (1) | 5.4 |
| FY21-NFRO-6489-01 | Combined | Verified | Delaware Direct | 19122 | Bio-infiltration/Bio-retention (1), Disconnections (1), Green Roof (2), Porous Pavement (3) | 0.5 |
| FY21-ORME-6107-01 | Combined | Verified | Delaware Direct | 19134 | Subsurface Detention Basin (1) | 0.6 |
| FY21-PHAB-6389-01 | Combined | Verified | Lower Schuylkill River | 19121 | Disconnections (1), Subsurface Infiltration Basin (1) | 1.2 |
| FY21-PROJ-6308-01 | Combined | Verified | Delaware Direct | 19122 | Disconnections (1), Subsurface Infiltration Basin (1) | 0.2 |
| FY21-PROP-6250-01 | Combined | Verified | Lower Schuylkill River | 19145 | Surface Detention Basin (1) | 1 |
| FY21-RAMO-6289-01 | Combined | Verified | Tacony-Frankford Creek | 19120 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 4.2 |
| FY21-SAFS-6465-01 | Combined | Verified | Tacony-Frankford Creek | 19141 | Bioretention (2) | 2.1 |
| FY21-SAMU-6211-01 | Combined | Verified | Delaware Direct | 19134 | Disconnections (1) | 0 |
| FY21-SOUT-6184-01 | Combined | Verified | Delaware Direct | 19107 | Subsurface Detention Basin (1) | 0.8 |
| FY21-SPRI-6426-01 | Combined | Verified | Delaware Direct | 19123 | Green Roof (1), Subsurface Detention Basin (2), WQ Treatment Device (2) | 1.7 |
| FY21-TEMP-6187-01 | Combined | Verified | Delaware Direct | 19122 | Bioretention (5) | 1.8 |
| FY21-THSP-6404-01 | Combined | Verified | Delaware Direct | 19123 | Row Connection (3), Subsurface Detention Basin (1), WQ Treatment Device (1) | 2.6 |
| FY21-TMPE-6131-01 | Combined | Verified | Lower Schuylkill River | 19132 | Subsurface Detention Basin (1) | 1.9 |
| FY21-TRIN-6159-01 | Combined | Verified | Delaware Direct | 19133 | Green Roof (1), Porous Pavement (1) | 0.6 |
| FY21-WEST-6479-01 | Combined | Verified | Lower Schuylkill River | 19139 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 2 |
| FY21-WHIT-6141-01 | Combined | Verified | Cobbs Creek | 19143 | Green Roof (1), Porous Pavement (1) | 0.1 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY21-WHIT-6517-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Bioretention (3), Disconnections (1) | 2.1 |
| FY21-WPRE-6261-01 | Combined | Verified | Cobbs Creek | 19104 | Bioinfiltration (1), Bioretention (5), Porous Pavement (1), Row Connection (16) | 0.6 |
| FY22-FRAN-6709-01 | Combined | Verified | Delaware Direct | 19125 | Green Roof (1), Porous Pavement (1) | 0.6 |
| FY22-INDO-6682-01 | Combined | Verified | Lower Schuylkill River | 19104 | Basin (1), WQ Treatment Device (1) | 3.6 |
| FY22-MILN-6629-01 | Combined | Verified | Delaware Direct | 19135 | Bioretention (3) | 9.3 |
| FY22-UNIV-6659-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Subsurface Infiltration Basin (1) | 0.5 |
| FY22-WOOD-6981-01 | Combined | Verified | Cobbs Creek | 19142 | Green Roof (1), Porous Pavement (1) | 0.2 |
| FY23-BOYS-7024-01 | Combined | Verified | Cobbs Creek | 19139 | Subsurface Infiltration Basin (1) | 0.5 |
| FY23-DREX-7134-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Porous Pavement (1) | 0.4 |
| FY23-EHUN-7221-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Basin (1) | 1.6 |
| FY23-NIXO-7185-01 | Combined | Verified | Cobbs Creek | 19143 | Disconnections (1), Porous Pavement (2) | 0.1 |
| FY24-BALT-7571-01 | Combined | Verified | Darby Creek | 19143 | Subsurface Detention Basin (1), WQ Treatment Device (1) | 0.3 |
| FY24-VIDA-7587-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Subsurface Infiltration Basin (1) | 1.8 |
| **Total Greened Acres:** | | | | | | **1163** |

**Table 4: Completed Incentivized Green Stormwater Infrastructure Projects**

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2012-5818-1784-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Bioinfiltration (1) | 0.2 |
| 2012-GSFS-2028-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Bioretention (1), Depave (1) | 1.1 |
| 2012-WOLF-1792-01 | Combined | Verified | Delaware Direct | 19137 | | 11.7 |
| 2013-1148-2105-01 | Combined | Verified | Delaware Direct | 19147 | Green Roof (1), Subsurface Infiltration Basin (2), Surface Infiltration Basin (1) | 1 |
| 2013-CARD-2076-01 | Combined | Verified | Delaware Direct | 19124 | Subsurface Detention Basin (1), Surface Detention Basin (1) | 60.6 |
| 2013-CARD-2220-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Surface Detention Basin (2) | 18.6 |
| 2013-METH-2117-01 | Combined | Verified | Lower Schuylkill River | 19131 | Bioinfiltration (10), Bio-infiltration/Bio-retention (1) | 1.2 |
| 2013-SITE-2387-01 | Combined | Verified | Lower Schuylkill River | 19131 | Subsurface Infiltration Basin (1) | 7.2 |
| 2013-SITE-2401-01 | Combined | Verified | Lower Schuylkill River | 19131 | Subsurface Infiltration Basin (1) | 5.8 |
| 2014-GLOB-2467-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Subsurface Detention Basin (1), Surface Detention Basin (1) | 0.8 |
| 2014-SITE-2501-01 | Combined | Verified | Lower Schuylkill River | 19131 | Bioinfiltration (1) | 44.8 |
| 2014-SITE-2549-01 | Combined | Verified | Lower Schuylkill River | 19145 | Subsurface Infiltration Basin (1) | 6 |
| 2014-SITE-2550-01 | Combined | Verified | Delaware Direct | 19135 | Subsurface Infiltration Basin (1) | 2.6 |
| 2014-SITE-2592-01 | Combined | Verified | Lower Schuylkill River | 19153 | Subsurface Infiltration Basin (1) | 9 |
| 2014-SITE-2665-01 | Combined | Verified | Lower Schuylkill River | 19145 | Subsurface Detention Basin (1), Subsurface Infiltration Basin (1) | 15.9 |
| 2014-SITE-2666-01 | Combined | Verified | Lower Schuylkill River | 19153 | Subsurface Infiltration Basin (2) | 4.9 |
| 2014-SITE-2682-01 | Combined | Verified | Lower Schuylkill River | 19131 | Subsurface Detention Basin (1), Surface Infiltration Basin (1) | 9.4 |
| 2014-WARR-2757-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Bioretention (4), Row Connection (3) | 3 |
| 2014-WILL-2541-01 | Combined | Verified | Delaware Direct | 19140 | Depave (1) | 0.2 |
| 2015-3560-2776-01 | Combined | Verified | Delaware Direct | 19134 | Subsurface Infiltration Basin (1) | 1.3 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| 2015-FRAN-2954-01 | Combined | Verified | Delaware Direct | 19130 | Bioretention (3) | 0.7 |
| 2015-LASA-2865-01 | Combined | Verified | Tacony-Frankford Creek | 19141 | Surface Detention Basin (3) | 9.3 |
| 2015-LEAE-2888-01 | Combined | Verified | Lower Schuylkill River | 19036 | Bioinfiltration (4), Bio-infiltration/Bio-retention (1), Porous Pavement (1), Row Connection (2), Subsurface Infiltration Basin (2) | 2.5 |
| 2015-LIGH-2907-01 | Combined | Verified | Delaware Direct | 19140 | Surface Detention Basin (1) | 0.9 |
| 2015-LUTH-2836-01 | Combined | Verified | Delaware Direct | 19125 | Depave (1) | 0.2 |
| 2015-MART-2832-01 | Combined | Verified | Tacony-Frankford Creek | 19138 | Bioinfiltration (4), Row Connection (1), Subsurface Infiltration Basin (1) | 5.2 |
| 2015-MAYF-2796-01 | Combined | Verified | Delaware Direct | 19149 | Bioretention (3), Row Connection (2) | 4.7 |
| 2015-MINK-2844-01 | Combined | Verified | Lower Schuylkill River | 19145 | Basin (1), Surface Infiltration Basin (1) | 1 |
| 2015-NORT-2977-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Subsurface Detention Basin (5), Subsurface Infiltration Basin (1), WQ Treatment Device (2) | 22.2 |
| 2015-SITE-2809-01 | Combined | Verified | Tacony-Frankford Creek | 19120 | Row Connection (3), Subsurface Infiltration Basin (2) | 23 |
| 2015-SITE-2810-01 | Combined | Verified | Lower Schuylkill River | 19153 | Subsurface Infiltration Basin (5) | 17.6 |
| 2015-SITE-2812-01 | Combined | Verified | Pennypack Creek | 19136 | Row Connection (1), Subsurface Infiltration Basin (2) | 13.3 |
| 2015-STJA-2895-01 | Combined | Verified | Tacony-Frankford Creek | 19120 | Subsurface Detention Basin (1), Surface Detention Basin (1), Surface Infiltration Basin (2) | 0.6 |
| 2015-TAGG-2931-01 | Combined | Verified | Delaware Direct | 19148 | Bioinfiltration (1), Depave (1), Subsurface Detention Basin (1) | 1 |
| FY16-ADAI-4164-01 | Combined | Verified | Delaware Direct | 19125 | Bioinfiltration (1), Depave (1) | 2.6 |
| FY16-ADAM-4101-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Disconnections (1), Surface Detention Basin (1) | 2.4 |
| FY16-CHES-4233-01 | Combined | Verified | Lower Schuylkill River | 19146 | Depave (1), Porous Pavement (1), Row Connection (2), Subsurface Infiltration Basin (1), Surface Infiltration Basin (1) | 1.3 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY16-ESSI-4357-01 | Combined | Verified | Lower Schuylkill River | 19153 | Row Connection (2), Subsurface Infiltration Basin (3) | 10.2 |
| FY16-GAUL-4273-01 | Combined | Verified | Delaware Direct | 19134 | Subsurface Infiltration Basin (1) | 1.5 |
| FY16-ISTR-4292-01 | Combined | Verified | Delaware Direct | 19134 | Blue Roof (3) | 1.1 |
| FY16-JMPA-4286-01 | Combined | Verified | Lower Schuylkill River | 19142 | Bioinfiltration (1), Depave (1) | 0.8 |
| FY16-JOMA-4143-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Bioretention (1) | 1.6 |
| FY16-LASA-4274-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Subsurface Infiltration Basin (4), Surface Infiltration Basin (1) | 14.6 |
| FY16-LIND-4086-01 | Combined | Verified | Tacony-Frankford Creek | 19141 | Bioinfiltration (1) | 1.4 |
| FY16-NAME-4323-01 | Combined | Verified | Tacony-Frankford Creek | 19140 | Row Connection (1), Subsurface Detention Basin (2) | 8.8 |
| FY16-PHIL-4134-01 | Combined | Verified | Lower Schuylkill River | 19130 | Green Roof (1) | 0.1 |
| FY16-RICH-4302-01 | Combined | Verified | Delaware Direct | 19137 | Disconnections (1) | 12.2 |
| FY16-SITE-4016-01 | Combined | Verified | Lower Schuylkill River | 19145 | Subsurface Detention Basin (1) | 7.6 |
| FY16-SITE-4020-01 | Combined | Verified | Delaware Direct | 19136 | Subsurface Infiltration Basin (2) | 3 |
| FY16-SITE-4025-01 | Combined | Verified | Pennypack Creek | 19136 | Row Connection (3), Subsurface Detention Basin (1) | 13.4 |
| FY16-SITE-4039-01 | Combined | Verified | Delaware Direct | 19148 | Row Connection (2), Subsurface Detention Basin (3), Surface Detention Basin (1) | 6.9 |
| FY16-SITE-4104-01 | Combined | Verified | Tacony-Frankford Creek | 19120 | Row Connection (2), Subsurface Infiltration Basin (4) | 12.8 |
| FY16-SITE-4189-01 | Combined | Verified | Tacony-Frankford Creek | 19120 | Row Connection (1), Subsurface Detention Basin (4), Surface Detention Basin (3) | 15.8 |
| FY16-STHS-4226-01 | Combined | Verified | Lower Schuylkill River | 19145 | Bioretention (2), Subsurface Detention Basin (8) | 5.2 |
| FY16-WAKE-4282-01 | Combined | Verified | Delaware Direct | 19137 | Row Connection (2), Subsurface Detention Basin (2) | 8.7 |
| FY17-BAKE-4685-01 | Combined | Verified | Delaware Direct | 19134 | Subsurface Infiltration Basin (1) | 3.4 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY17-BSTR-4742-01 | Combined | Verified | Delaware Direct | 19134 | Subsurface Infiltration Basin (4) | 10.2 |
| FY17-CAST-4743-01 | Combined | Verified | Delaware Direct | 19134 | Row Connection (2), Subsurface Detention Basin (2) | 7.9 |
| FY17-EADO-4760-01 | Combined | Verified | Delaware Direct | 19137 | Subsurface Infiltration Basin (2) | 5.9 |
| FY17-ECHE-4667-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Bioinfiltration (1), Subsurface Infiltration Basin (1) | 4.2 |
| FY17-ECHE-4668-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Bioinfiltration (1), Row Connection (2), Subsurface Infiltration Basin (1) | 4.4 |
| FY17-EDMU-4680-01 | Combined | Verified | Pennypack Creek | 19136 | Subsurface Infiltration Basin (1) | 5 |
| FY17-EERI-4396-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Subsurface Infiltration Basin (1) | 4.6 |
| FY17-ELUZ-4412-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Row Connection (2), Subsurface Infiltration Basin (3) | 10.4 |
| FY17-ESSI-4624-01 | Combined | Verified | Lower Schuylkill River | 19153 | Row Connection (2), Subsurface Detention Basin (3) | 13.1 |
| FY17-ESSI-4628-01 | Combined | Verified | Lower Schuylkill River | 19153 | Porous Pavement (2), Row Connection (1), Subsurface Detention Basin (2), WQ Treatment Device (1) | 9.1 |
| FY17-FRAN-4728-01 | Combined | Verified | Delaware Direct | 19125 | Green Roof (1) | 0.1 |
| FY17-GRAY-4520-01 | Combined | Verified | Lower Schuylkill River | 19143 | Row Connection (1), Subsurface Detention Basin (3) | 16.3 |
| FY17-HIST-4671-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Bioretention (1), Depave (1), Subsurface Detention Basin (1) | 0.7 |
| FY17-NDAN-4582-01 | Combined | Verified | Tacony-Frankford Creek | 19140 | Row Connection (21), Subsurface Detention Basin (1) | 31.8 |
| FY17-NTHS-4620-01 | Combined | Verified | Delaware Direct | 19140 | Row Connection (2), Subsurface Detention Basin (3) | 15.9 |
| FY17-OVER-4682-01 | Combined | Verified | Lower Schuylkill River | 19151 | Bioinfiltration (1), Subsurface Infiltration Basin (1) | 2.4 |
| FY17-PASC-4472-01 | Combined | Verified | Lower Schuylkill River | 19143 | Row Connection (1), Subsurface Detention Basin (2), Subsurface Infiltration Basin (2) | 9.2 |
| FY17-POSE-4687-01 | Combined | Verified | Pennypack Creek | 19136 | Subsurface Detention Basin (1) | 5.7 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY17-STEN-4469-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Row Connection (2), Subsurface Detention Basin (3) | 4.5 |
| FY17-STHS-4442-01 | Combined | Verified | Lower Schuylkill River | 19145 | Subsurface Detention Basin (7) | 15.9 |
| FY17-STMA-4406-01 | Combined | Verified | Delaware Direct | 19122 | Bio-infiltration/Bio-retention (1) | 2.2 |
| FY17-TACO-4444-01 | Combined | Verified | Delaware Direct | 19137 | Subsurface Detention Basin (1), Subsurface Infiltration Basin (2) | 12.6 |
| FY17-WHEA-4544-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Disconnections (1), Row Connection (2), Subsurface Infiltration Basin (1) | 14 |
| FY18-ACAD-4999-01 | Combined | Verified | Pennypack Creek | 19114 | Row Connection (2), Subsurface Infiltration Basin (1) | 5.2 |
| FY18-ADAM-5070-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Row Connection (2), Subsurface Infiltration Basin (2) | 4.8 |
| FY18-BALA-5159-01 | Combined | Verified | Lower Schuylkill River | 19131 | Surface Detention Basin (1) | 24.4 |
| FY18-COML-4942-01 | Combined | Verified | Delaware Direct | 19135 | Subsurface Detention Basin (1) | 1.4 |
| FY18-DEPA-4944-01 | Combined | Verified | Tacony-Frankford Creek | 19422 | Subsurface Detention Basin (1) | 11.9 |
| FY18-DREX-5120-01 | Combined | Verified | Lower Schuylkill River | 19104 | Disconnections (1), Green Roof (1) | 1 |
| FY18-EERI-4992-01 | Combined | Verified | Delaware Direct | 19124 | Row Connection (2), Subsurface Infiltration Basin (4) | 11.6 |
| FY18-GRAY-4905-01 | Combined | Verified | Lower Schuylkill River | 19143 | Row Connection (1), Subsurface Detention Basin (1) | 2.3 |
| FY18-LASA-4980-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Subsurface Infiltration Basin (1) | 3.3 |
| FY18-NORT-4846-01 | Combined | Verified | Lower Schuylkill River | 19140 | Row Connection (2), Subsurface Infiltration Basin (2) | 4.1 |
| FY18-OREG-5175-01 | Combined | Verified | Delaware Direct | 19148 | Row Connection (2), Subsurface Detention Basin (4) | 7 |
| FY18-ORTH-5057-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Row Connection (2), Subsurface Detention Basin (3), Subsurface Infiltration Basin (1) | 7.8 |
| FY18-PAUL-4979-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Row Connection (2), Subsurface Infiltration Basin (1) | 2.1 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY18-PINN-4913-01 | Combined | Verified | Lower Schuylkill River | 19131 | Subsurface Infiltration Basin (3) | 2.9 |
| FY18-PRES-4972-01 | Combined | Verified | Delaware Direct | 19124 | Row Connection (7), Subsurface Detention Basin (2) | 10.1 |
| FY18-STOR-5156-01 | Combined | Verified | Delaware Direct | 19148 | Row Connection (3), Subsurface Detention Basin (4) | 67.4 |
| FY18-TALM-4904-01 | Combined | Verified | Lower Schuylkill River | 19131 | Subsurface Detention Basin (1) | 1.2 |
| FY18-TALM-4995-01 | Combined | Verified | Lower Schuylkill River | 19131 | Subsurface Infiltration Basin (2) | 1.7 |
| FY18-WBUL-4819-01 | Combined | Verified | Delaware Direct | 19140 | Row Connection (1), Subsurface Detention Basin (2) | 7.1 |
| FY18-WHIT-5066-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Row Connection (1), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1) | 8 |
| FY18-WHUN-4834-01 | Combined | Verified | Lower Schuylkill River | 19140 | Row Connection (1), Subsurface Infiltration Basin (1) | 2.6 |
| FY19-ARDL-5323-01 | Combined | Verified | Tacony-Frankford Creek | 19138 | Bioinfiltration (2) | 3.4 |
| FY19-CAST-5414-01 | Combined | Verified | Delaware Direct | 19134 | Row Connection (6), Subsurface Detention Basin (1), Subsurface Infiltration Basin (2) | 9.8 |
| FY19-DEPA-5339-01 | Combined | Verified | Tacony-Frankford Creek | 19031 | Subsurface Detention Basin (1) | 2.3 |
| FY19-HOLM-5609-01 | Combined | Verified | Pennypack Creek | 19136 | Depave (1), Row Connection (7), Subsurface Detention Basin (2) | 2 |
| FY19-LEON-5611-01 | Combined | Verified | Delaware Direct | 19122 | Row Connection (2), Subsurface Infiltration Basin (2) | 6.9 |
| FY19-PATT-5479-01 | Combined | Verified | Delaware Direct | 19148 | Bioretention (4), Disconnections (1), Subsurface Detention Basin (2) | 61.2 |
| FY19-PEER-5261-01 | Combined | Verified | Lower Schuylkill River | 19145 | Row Connection (4), Subsurface Detention Basin (2) | 3.2 |
| FY19-PEER-5346-01 | Combined | Verified | Lower Schuylkill River | 19151 | Bioinfiltration (1), Row Connection (5), Subsurface Infiltration Basin (1) | 3.3 |
| FY19-SEPV-5417-01 | Combined | Verified | Delaware Direct | 19137 | Subsurface Detention Basin (1) | 1.8 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY19-SOUT-5279-01 | Combined | Verified | Delaware Direct | 19148 | Bioretention (1), Depave (1) | 1.4 |
| FY19-STRA-5600-01 | Combined | Verified | Lower Schuylkill River | 19132 | Row Connection (10), Subsurface Detention Basin (3) | 13.1 |
| FY19-WGLE-5241-01 | Combined | Verified | Delaware Direct | 19132 | Row Connection (2), Subsurface Detention Basin (2) | 3.2 |
| FY19-WGLE-5243-01 | Combined | Verified | Lower Schuylkill River | 19132 | Subsurface Infiltration Basin (2) | 7.8 |
| FY19-WLEH-5378-01 | Combined | Verified | Lower Schuylkill River | 19132 | Bioretention (1), Row Connection (7), Subsurface Detention Basin (3) | 8.7 |
| FY19-WLEH-5466-01 | Combined | Verified | Lower Schuylkill River | 19132 | Row Connection (4), Subsurface Detention Basin (1), Subsurface Infiltration Basin (2) | 6.2 |
| FY20-AWBU-5768-01 | Combined | Verified | Tacony-Frankford Creek | 19138 | Row Connection (6), Surface Detention Basin (1) | 3.9 |
| FY20-IKEA-5894-01 | Combined | Verified | Delaware Direct | 19148 | Row Connection (5), Subsurface Detention Basin (5) | 20.5 |
| FY20-PARK-5828-01 | Combined | Verified | Lower Schuylkill River | 19130 | Green Roof (1) | 0.2 |
| FY21-DEPA-6266-01 | Combined | Verified | Tacony-Frankford Creek | 19031 | Subsurface Detention Basin (1) | 3.2 |
| FY21-EHUN-6402-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Cistern (1), Subsurface Infiltration Basin (1) | 1.4 |
| FY21-TEOC-6512-01 | Combined | Verified | Lower Schuylkill River | 19123 | Bioretention (1) | 4.2 |
| FY22-CONC-6684-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Bioretention (2) | 1.5 |
| FY22-ESSI-6719-01 | Combined | Verified | Lower Schuylkill River | 19153 | Row Connection (7), Subsurface Detention Basin (1) | 5.5 |
| FY22-HOLY-6673-01 | Combined | Verified | Tacony-Frankford Creek | 19119 | Bioinfiltration (1), Subsurface Infiltration Basin (2) | 2.4 |
| FY22-MINI-6563-01 | Combined | Verified | Lower Schuylkill River | 19096 | Row Connection (11), Subsurface Detention Basin (2) | 11 |
| FY22-STLU-6685-01 | Combined | Verified | Tacony-Frankford Creek | 19144 | Bioinfiltration (1) | 0.4 |
| FY22-TACO-6971-01 | Combined | Verified | Tacony-Frankford Creek | 19124 | Row Connection (3), Subsurface Detention Basin (1) | 16.3 |
| FY23-MARG-7283-01 | Combined | Verified | Delaware Direct | 19137 | Depave (1), Subsurface Infiltration Basin (1) | 4.4 |
| FY23-NPCS-7240-01 | Combined | Verified | Delaware Direct | 19135 | Subsurface Detention Basin (3) | 18.2 |

| Tracking Number | Sewer Type | Category | Watershed | Zip | SMP Type(s) and Count | Greened Acres |
|---|---|---|---|---|---|---|
| FY23-SANK-7026-01 | Combined | Verified | Delaware Direct | 19125 | Bioretention (2), Depave (1), Subsurface Detention Basin (1) | 2.3 |
| FY23-SFRO-7285-01 | Combined | Verified | Delaware Direct | 19148 | Subsurface Detention Basin (1) | 3 |
| FY23-STAT-7035-01 | Combined | Verified | Delaware Direct | 19136 | Subsurface Detention Basin (1) | 4 |
| FY24-EERI-7517-01 | Combined | Verified | Darby Creek | 19124 | Subsurface Detention Basin (1) | 3.2 |
| **Total Greened Acres:** | | | | | | **1077** |

# Appendix 4

## Green Stormwater Infrastructure Monitoring Status Report

# 1.0 Introduction

During the reporting period of July 1, 2024 to June 30, 2025, the City's *Green City, Clean Waters* program addressed stormwater runoff reductions in urbanized areas using a combination of traditional infrastructure and green stormwater infrastructure (GSI). GSI systems vary in size, complexity, and interconnectedness to the existing drainage system, but the objective is to infiltrate, evapotranspire, reuse, and/or detain stormwater rather than to convey it directly to the sewer system. Monitoring and testing GSI systems is therefore essential to determine the effectiveness of various stormwater management practice (SMP) types in managing stormwater and reducing combined sewer overflows.

The focus of the *Green City, Clean Waters* monitoring program has been post-construction performance monitoring and testing of public GSI systems but has expanded to test public GSI systems during construction beginning in FY19. Specifically, a liner testing pilot began in 2019 and has been successful in providing feedback for Construction and GSI Design to improve performance of fully lined systems. The performance testing of fully lined systems in construction is anticipated to increase in the coming years due to the success of the pilot and increased construction of GSI. In addition, post-construction private GSI monitoring and testing has been conducted since FY18.

The primary goal of GSI monitoring and testing is to assess the ability of GSI systems to reduce stormwater runoff volume. Project characteristics such as contributing drainage area, storage volume, inlet capture efficiency, and slow-release discharge parameters can be used to supplement data and observations from testing and monitoring, allowing for a more complete view of a system's functionality. Secondary goals include providing information for improvements to GSI design, construction, and maintenance and developing appropriate monitoring methods for the variety of GSI projects installed city-wide.

Proposed methods for performance monitoring and testing were outlined in both the draft Comprehensive Monitoring Plan submitted December 1, 2012 and in a response sent to PADEP and the EPA on July 31, 2013. A revised CMP was submitted on January 10th, 2014 and approved by PADEP on May 28, 2014. Since then, standard operating procedures (SOPs) continue to be refined for these methods. The latest monitoring and testing SOPs are available in the Appendices to the FY19 annual report.

# 2.0 Data Management

The data tracking mechanism for *Green City, Clean Waters* GSI monitoring data has evolved significantly since the inception of the program. Raw data are stored on an SMP-by-SMP basis in a filesystem directory tree. Derived data from quality assurance calculations are stored in spreadsheets and

relational databases, to be used for various data analyses. FY25 has seen substantial upgrades to our entire data management software stack.

The PostgreSQL database that centralizes GSI monitoring data was significantly restructured in FY25. A geospatial data extension was installed to allow hosting of geospatial data for use in several analyses and apps. These spatial data structures have significantly lessened the data management overhead of incorporating GIS data into our tools. The nonspatial data structures have also been upgraded; antiquated time series data structures that were not responsive to time zone metadata were replaced in FY25 with updated, time-zone-aware equivalents. This replacement necessitated the reconstruction of several dozen database tables and views, audits of our entire software stack to ensure compatibility with post-migration data structures, and data integrity reviews to ensure no anomalies were introduced.

Finally, the data management script infrastructure received significant upgrades in FY25. Nine of the twelve nightly data management scripts are now running on the RStudio Connect server that hosts the GSI monitoring web apps. The other three scripts require software that is not accessible from the RStudio Connect instance, such as database backup software or database drivers not available for Linux; those scripts are running locally on the database server as they were in FY24. These scripts are version-controlled on a Github account managed by the Water Department and are continually updated as data management needs evolve.

# 3.0 Data Analysis

## *3.1 Sensor Drift Testing*

Testing of pressure transducer sensors used for collecting water level data continued in FY25. The goal of the sensor drift testing program is to identify and address sensor drift and other performance issues in sensors to ensure the integrity of data collected. The pilot testing program that was launched in FY24 was completed in FY25 with 57 additional pilot tests performed in FY25. All pilot data from FY24 and FY25 was analyzed and summarized, and a long-term procedure was outlined for identifying sensors in need of testing, conducting the tests, recording the results, and repairing or retiring faulty sensors. 53 tests were performed following the updated procedure and development began for a web application to track sensor tests and statuses.

## *3.2 Continuous Monitoring Plan of Public Subsurface Infiltrating GSI*

In FY25, an updated long-term public GSI monitoring strategy was planned and developed to address key limitations in previous monitoring efforts. The revised approach is intended to improve understanding of (Objective 1) changing infiltration rates in subsurface SMPs due to sediment accumulation and (Objective 2) the prevalence of short-circuiting, which is water leaving GSI through

any unintended pathways. Two major initiatives were outlined: (1) a short-term remonitoring effort (A/B testing) to assess the frequency of infiltration decline by redeploying sensors at previously monitored SMPs, and (2) an expanded long-term monitoring program based on a stratified, data-driven sampling method. Representative SMPs were selected using k-means clustering informed by construction year, location, and loading ratio—factors believed to correlate with sedimentation and short-circuiting risks. SMPs included in long-term infiltration monitoring (Objective 1) will undergo desktop review, field inspections, and simulated runoff testing to exclude systems affected by short-circuiting, while also enabling quantification of short-circuiting prevalence (Objective 2). These updates are expected to improve the accuracy of infiltration modeling, inform assumptions about GSI engineering service life, and guide future design and maintenance standards.

## 3.3 Site-Specific Performance Evaluations

In FY25, several targeted performance evaluations were conducted to assess site-specific issues and inform broader design and maintenance practices for public GSI systems. At the first public centralized green infrastructure (CGI) system, located in Ferko Playground, a performance evaluation was conducted to assess frequent overtopping of the control structure weir and recurring sinkholes in the overlying baseball field. It was determined that trash guard cleaning had little effect on overtopping frequency, but full removal in 2023 led to a marked decrease. Limited response in the downstream observation well following removal suggested rapid infiltration within the basin. These findings were shared with the CGI working group to inform next steps.

Evaluations of two additional CGI systems, located in Wissinoming Park, were conducted to assess the overall system performance. One system exhibited a slow draindown beyond acceptable standards, and an orifice was drilled to improve draindown. The other CGI system had a defective outflow structure allowing flow to prematurely bypass the outlet weir and repair options are being explored. Monitoring is ongoing to assess draindown following the orifice and outflow structure repairs and to inform maintenance intervals for the systems' first flush isolator rows.

Monitoring began in 2017 of a privately-owned surface infiltration SMP and the largest SMP in Philadelphia by greened acreage (managing ~35.5 greened acres). Data were analyzed to evaluate the effectiveness of two major retrofits: lowering of one of the forebay berms and raising diversion structure weirs, and reconstructing distribution piping to the infiltration basin. Flow meter data were used to assess bypass volumes before and after the retrofits, with results suggesting improvements in conveyance. Following the two retrofits, percent volume of runoff captured within the bioinfiltration basin increased from 79% to 88% for all rainstorms.

## 3.4 Green Inlet Monitoring & Analysis

After approximately four years of data collection, a comprehensive review and analysis of green inlet monitoring data across eight systems was completed. The analysis identified a significant correlation between overtopping events – when the observed water level in the green inlet exceeds the inlet grate elevation – and drainage area for a green inlet. Distribution pipes with a negative slope towards the green inlet had a higher overtopping frequency than distribution pipes with no slope. In contrast, the

time since distribution pipe jetting did not significantly correlate with overtopping events. The head differential between the water level in the green inlet and the stone storage was calculated for each rain event. The analysis showed the head differential is higher – suggesting a full green inlet and near empty stone storage – during overtopping events than non-overtopping events. The Water Department continues to gather data at these sites and perform field tests to better understand the causes of overtopping.

This initial analysis exclusively looked at highway style inlets with filter bag pretreatment. In the next monitoring phase, the analysis will expand to other sub-surface inlet and pretreatment types to provide more insight on design and maintenance practices.

## *3.5 Validation of Monitoring Elevations*

The majority of observation wells monitored by the Water Department extend below the bottom of SMP storage. This section of the observation well is known as a sump and its depth must be accounted for when processing monitoring data and evaluating SMP performance. Historically, sump depths were determined by cross-referencing observation well details in design drawings with water level plots produced using monitoring data. This method was unreliable due to inconsistencies between design drawing details and construction practices, as well as difficulties interpreting water level plots, leading to inaccurate analyses of monitoring data.

In an effort to improve analyses of monitoring data, FY25 saw the completion of an extensive review of over 300 current and past monitoring locations in an effort to more accurately ascertain sump depths and orifice elevations. Sump depths and orifice elevations were determined based on available design drawings and survey documents, field measurements, and water level data. Changes were made to the MARS Fieldwork app to centrally document this information, and this process continues to be used when entering data for new monitoring locations.

# 4.0 Software Development

Several software solutions were developed or received updates to enhance the efficiency, accuracy, and integrity of monitoring data management. New web applications were developed to plan water level sensor testing efforts, facilitate inventory management, and record testing results. A new Shiny web app was developed to host liner performance testing data. The new app will aid in planning liner performance tests and recording test results. Other software initiatives included developing a demo issue-tracking application for managing SMP defects and issues observed during fieldwork activities. This centralized platform will provide real-time status tracking of workorders and enhance data integrity.

In terms of data accuracy and reliability, significant updates were made to the data ecosystem handling the rainfall and water level data. In the past, time zone shifts across water level and rainfall timeseries were a concern across different projects and required manual scrutiny to ensure these timeseries data

were accurate and reliable. This issue was permanently fixed through a comprehensive project which assessed all stages of data extraction, transformation, and loading. This initiative involved reviewing scripts, database structures, and other software and drivers playing a role in the process. These innovations collectively contribute to more reliable data management and more efficient operational processes.

# 5.0 Public GSI Monitoring and Testing

Continuous water level (CWL) monitoring of GSI systems is the primary method the Water Department uses to evaluate GSI performance. CWL monitoring is conducted at the stormwater management practice (SMP) level, where one or more SMPs make up a single GSI system. Multiple SMPs may be monitored to assess the overall performance of a single GSI system. In addition to CWL monitoring, the Water Department conducts testing of GSI, including capture efficiency testing (CET) of inlets, simulated runoff testing (SRT) of GSI systems, infiltration testing of porous pavement and permeable pavers, and groundwater monitoring (pre-construction and post-construction of GSI).

## *5.1 Continuous Water Level (CWL) Monitoring*

During FY25, the Water Department completed sensor deployments (HOBO pressure transducers, Onset Computer Corp, Bourne, MA) for CWL monitoring of 103 public GSI systems, of which 6 systems were newly monitored this fiscal year (see **Table 5-1**). To-date (through FY25), sensor deployments have been completed for CWL monitoring of 478 public GSI systems. All public SMPs with post-construction CWL monitoring are shown in **Figure 5-1**. In addition, **Figure 5-1** shows the barometric pressure sensor and rain gauge locations that are utilized in the CWL monitoring process.

In selecting water level monitoring locations, the Water Department has attempted to roughly allocate monitoring effort according to the types of SMPs constructed for the *Green City, Clean Waters* program. **Table 5-2** is a breakdown by SMP type showing the number of public SMPs with CWL monitoring compared to the total number of SMPs of each type.

**Table 5-1: Summary of Post-Construction CWL Monitoring of Public SMPs**

| | FY25 | To-Date (through FY25) |
|---|---|---|
| Sensor Deployments | 302 | 496 |
| Systems | 103 | 478 |
| Systems Newly Monitored | 6 | |

**Table 5-2: Post-Construction CWL Monitoring of Public SMPs Listed by Type**

| SMP Type | Monitored SMPs (before and during FY25) | Total Constructed Public SMPs (through FY25) |
|---|---|---|
| Tree Trench | 281 | 604 |
| Stormwater Tree | 0 | 118 |
| Planter | 27 | 126 |
| Bumpout | 19 | 215 |
| Rain Garden | 69 | 196 |
| Infiltration/Storage Trench | 143 | 691 |
| Permeable Pavement | 2 | 13 |
| Swale | 6 | 50 |
| Basin | 1 | 7 |
| Drainage Well | 4 | 6 |
| Green Roof | 0 | 3 |
| **Total** | **552** | **2029** |

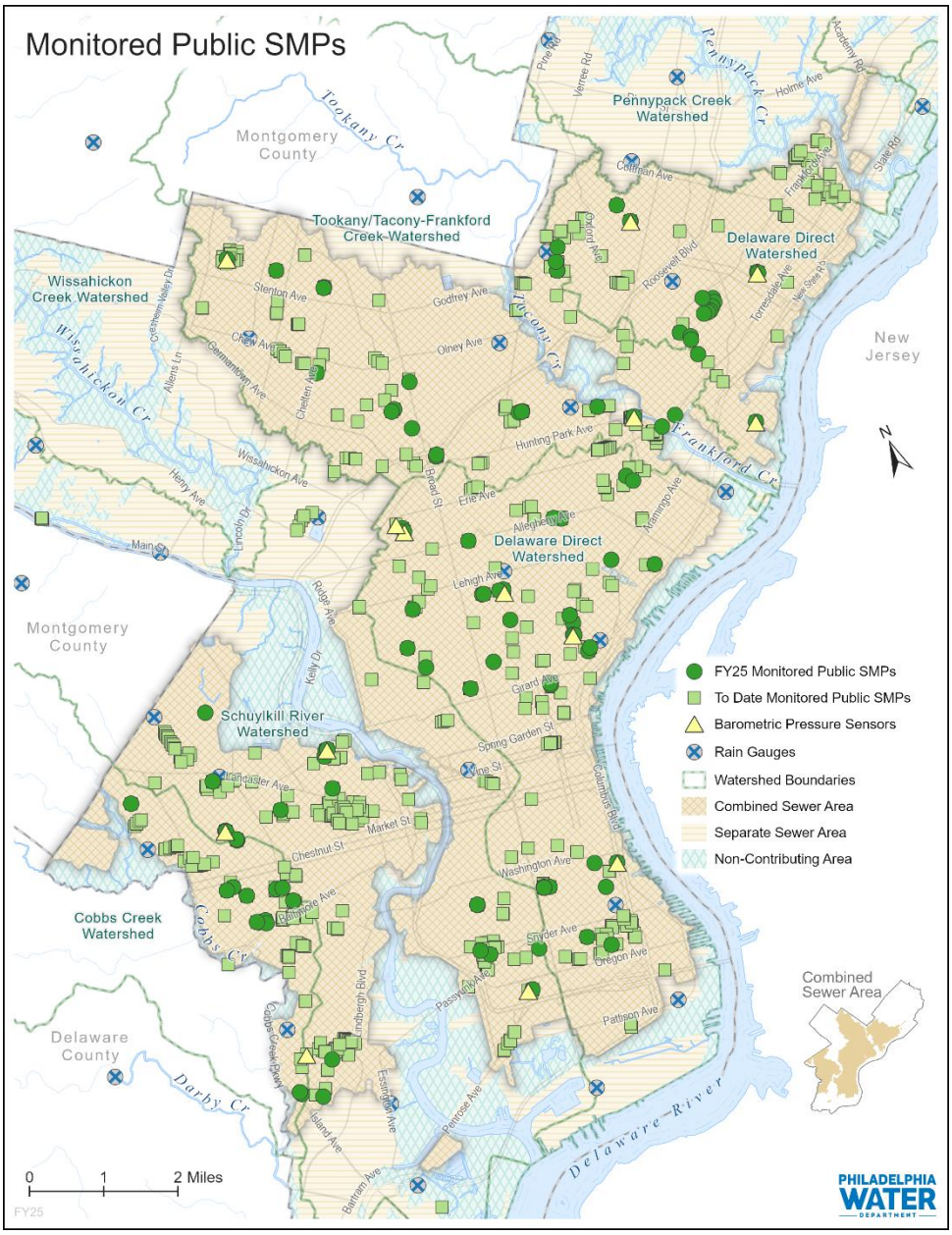



**Figure 5-1: Location of Public SMPs with Post-Construction CWL Monitoring**

## 5.2 Simulated Runoff Testing (SRT)

Systems that show abnormal water level response during CWL monitoring typically undergo simulated runoff testing (SRT) using water hydrant flow, dye testing, and/or CCTV to determine if there are performance issues. Additionally, SRTs may be performed to establish a baseline understanding of system performance, such as to support the infiltration trend analysis described in Section 3.2, and those described as Performance SRTs in **Table 5-3** below. **Table 5-3** shows the 36 pre-inspection SRTs that were performed on public GSI systems between July 1, 2024 to June 30, 2025. To-date (through FY25), a total of 359 post-construction SRTs have been performed on public GSI systems. The breakdown of SRTs per SMP type is shown in **Table 5-4**. FY25 SRT locations are shown **Figure 5-2**.

**Table 5-3: Post-Construction SRTs performed on Public Systems**

| SRT Type | FY25 | To-Date (through FY25) |
|---|---|---|
| Pre-Inspection Dye Test | 28 | 201 |
| CCTV Dye Test | 8 | 70 |
| Performance SRT | 0 | 88 |
| **Total** | **36** | **359** |

**Table 5-4: Public Systems with Post-Construction SRTs Performed**

| System Type | FY25 | To-Date (through FY25) |
|---|---|---|
| Bumpout | 4 | 29 |
| Drainage Well | 0 | 3 |
| Permeable Pavement | 0 | 2 |
| Planter | 0 | 16 |
| Rain Garden | 5 | 24 |
| Stormwater Tree | 0 | 10 |
| Swale | 1 | 5 |
| Tree Trench | 21 | 108 |
| Trench | 14 | 66 |
| **Total** | **45** | **263** |

Note: A single GSI system may consist of one or more SMPs; therefore, the number of SMPs tested may be larger than the number of GSI systems tested.

SRTs are performed during construction to assess system performance before the Water Department accepts ownership. A geomembrane liner performance requirement for fully lined GSI systems constitutes the majority of testing and ensures fully lined systems meet watertightness standards. Beginning in FY23, an existing contract with AKRF Inc., with their partner GreenUp, was expanded to include geomembrane liner performance testing to augment the Water Department's ability to test fully lined GSI systems during the construction process. As described in **Table 5-5**, 98 performance SRTs were conducted on public GSI systems between July 1, 2024, to June 30, 2025. To-date (through FY25), a total

of 368 construction-phase SRTs have been performed on public GSI systems of which 72 SRTs have been conducted with the support of AKRF Inc and GreenUp, with 30 of those 72 having been performed in FY25 alone. The breakdown of SRTs per SMP type is shown in **Table 5-6**. FY25 SRT locations are shown **Figure 5-2**.

**Table 5-5: Construction-Phase SRTs Performed on Public Systems**

| SRT Type | FY25 | To-Date (through FY25) |
|---|---|---|
| Pre-Inspection Dye Test | 0 | 4 |
| CCTV Dye Test | 0 | 2 |
| Performance SRT | 98 | 362 |
| **Total** | **98** | **368** |

**Table 5-6: Public Systems with Construction-Phase SRTs Performed**

| System Type | FY25 | To-Date (through FY25) |
|---|---|---|
| Bumpout | 21 | 45 |
| Rain Garden | 0 | 17 |
| Tree Trench | 70 | 163 |
| Trench | 14 | 92 |
| Planter | 1 | 3 |
| Swale | 0 | 2 |
| **Total** | **106** | **322** |

Note: A single GSI system may consist of one or more SMPs; therefore, the number of SMPs tested may be larger than the number of GSI systems tested.

## *5.3 Capture Efficiency Testing (CET)*

Capture efficiency testing (CET) is performed on a GSI inlet or other inflow structure to assess how well the SMP is receiving flow. Typically, all inflow structures at a GSI system are tested to assess a GSI system's overall capture efficiency, which aids in understanding the system's overall performance. In FY25, 42 public GSI systems had capture efficiency testing (see **Table 5-7**). To-date (through FY25), 557 public GSI systems have had capture efficiency testing.

**Table 5-7: Public Systems with CETs Administered**

| | FY25 | To-date (through FY25) |
|---|---|---|
| No. of Systems with CETs Administered | 42 | 557 |

## 5.4 Porous Pavement and Permeable Paver Surface Infiltration Rate Testing

The Water Department uses ASTM Standards (ASTM Committee D18, ASTM C1701/C1701M-09 Standard Test method for Infiltration Rate of In Place Pervious Concrete, 2009) (ASTM Committee C15, 2013), with minor modifications for porous pavement and permeable paver infiltration testing. Development of these procedures was completed in FY13 and refinement of the methods is ongoing. Sections of schedule 60 PVC pipe are used as infiltration rings to perform multiple tests at a time. As described in **Table 5-8**, infiltration testing was performed on 3 public GSI systems in FY25 and 22 systems to-date (through FY25). **Figure 5-2** shows the public GSI systems where infiltration testing has been performed.

**Table 5-8: Public Systems with Infiltration Testing Administered**

| | FY25 | To-Date (through FY25) |
|---|---|---|
| No. of Systems with Infiltration Testing Administered | 3 | 22 |

## 5.5 Leakage Testing of GSI Structures

Public GSI structures, including green inlets, outlet structures, and weirs, are known to leak based on field observations during SRTs. Repair methods using injection foam and hydraulic cement have been piloted to address this issue. A leakage testing method was adopted in FY23 to measure leakage before and after repair work to determine the effectiveness of the repair. In FY25, 16 public GSI systems had leakage tests performed. Repair work is ongoing and leakage testing will be utilized to assess the near- and long-term effectiveness of the repair method.

**Table 5-9: Public Systems with Inlet Leakage Tests Administered**

| | FY25 | To-Date (through FY25) |
|---|---|---|
| No. of Systems with Leakage Testing Administered | 16 | 43 |

## 5.6 Inlet Conveyance Testing

Inlet conveyance testing (ICT) is performed on a green inlet or other GSI inflow structure to assess the maximum flow rate the structure can convey to the system. These tests are performed when monitoring data indicates a lack of SMP response to precipitation events, or after maintenance, repairs, or modifications are completed on inflow structures or connected distribution piping. These tests aid in determining if performance issues observed via monitoring data can be attributed to conveyance issues. In FY25, inlet conveyance testing was performed on 12 public GSI systems (see **Table 5-10**). To-date (through FY25), inlet conveyance testing has been performed on 23 public GSI systems.

**Table 5-10: Public Systems with ICTs Administered**

| | FY25 | To-date (through FY25) |
|---|---|---|
| No. of Systems with ICTs Administered | 12 | 23 |

## *5.7 Groundwater Level Monitoring for Public GSI*

The Water Department installs sensors within groundwater monitoring wells near proposed SMP locations to characterize seasonal groundwater fluctuations and determine the feasibility of the site for the installation of GSI. As shown in **Table 5-11**, 2 sites were monitored in FY25 to assess the feasibility of the sites prior to GSI implementation. To date, 11 such sites have been monitored. The Water Department also installs sensors within groundwater monitoring wells near active SMPs to assess the effect of infiltrating SMPs on the water table. As shown in **Table 5-11**, groundwater monitoring was conducted at 8 systems in FY25, and a total of 15 GSI systems had post-construction groundwater monitoring to date.

**Table 5-11: Groundwater Monitoring for Public GSI**

| Monitoring Phase | FY25 | To-Date (through FY25) |
|---|---|---|
| Prior to Construction of GSI (Systems) | 2 | 11 |
| Post-Construction (Active GSI) | 8 | 15 |

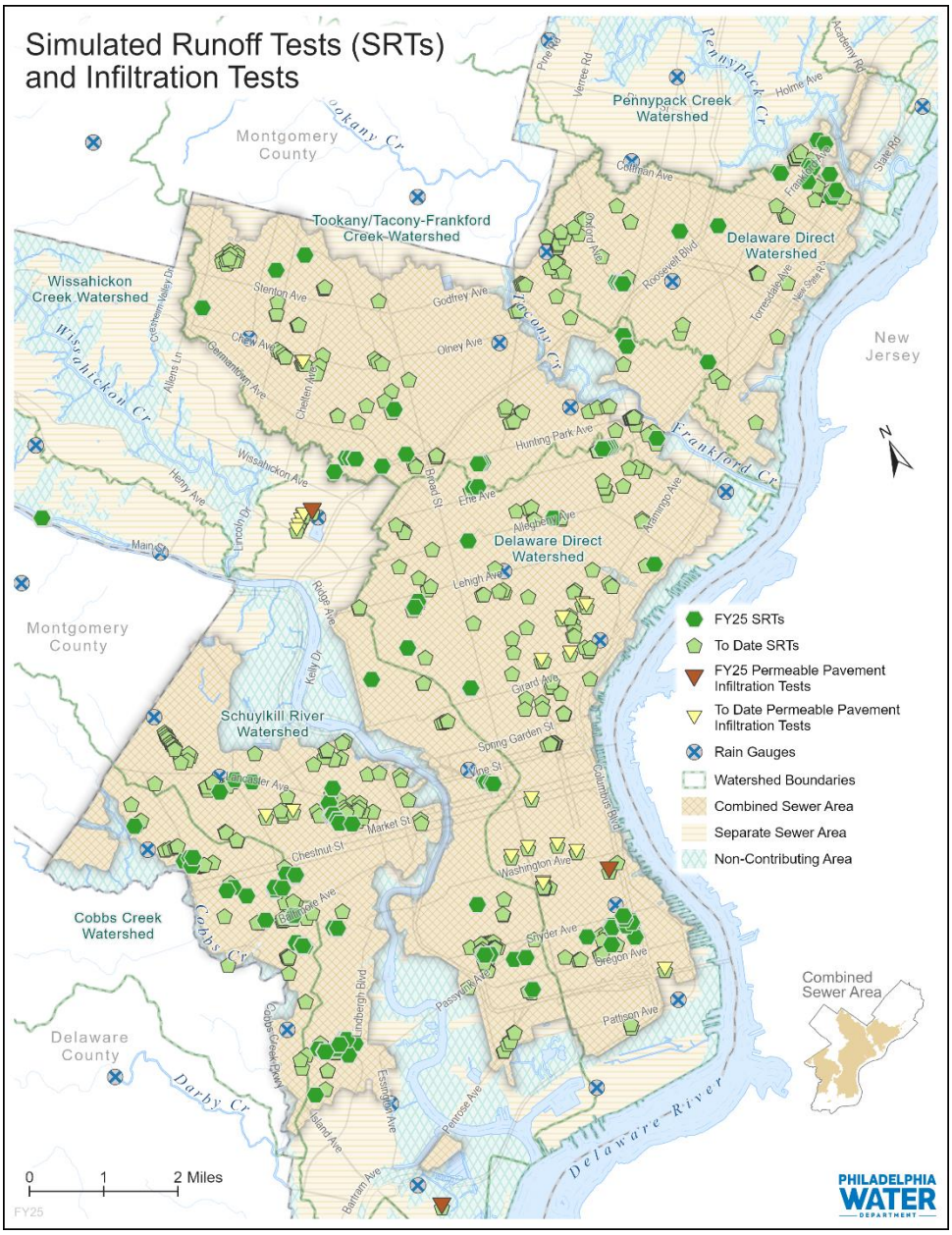



**Figure 5-2: Simulated Runoff Tests and Porous Pavement Tests**

# 6.0 Private GSI Monitoring and Testing

## *6.1 Continuous Water Level (CWL) Monitoring*

During FY25, 39 sensor deployments were completed for CWL monitoring of private GSI systems with 1 newly monitored system this fiscal year (see **Table 6-1**). A monitoring plan was developed to focus on testing and monitoring of a select number of private regulated GSI systems, and initial monitoring of these systems began in FY24. To-date (through FY25), 521 sensor deployments have been completed for

CWL monitoring of 29 private GSI systems. All private SMPs with post-construction CWL monitoring are shown in **Figure 6-1**. In addition, **Figure 6-1** shows the barometric pressure sensor and rain gauge locations that are utilized in the CWL monitoring process. **Table 6-2** is a breakdown by SMP type showing the number of private SMPs with CWL monitoring compared to the total number of SMPs of each type.

**Table 6-1: Summary of Post-Construction CWL Monitoring of Private Systems**

| | FY25 | To-Date (through FY25) |
|---|---|---|
| Sensor Deployments | 26 | 521 |
| Systems | 9 | 29 |
| Systems Newly Monitored | 1 | |

**Table 6-2: Post-Construction CWL-Monitoring of Private Systems Listed by Type**

| System Type | Monitored SMPs (before and during FY25) | Total Constructed Private SMPs |
|---|---|---|
| Basin | 17 | 1845 |
| Bioinfiltration/Bioretention | 12 | 935 |
| Porous Pavement | 0 | 534 |
| Cistern | 0 | 20 |
| Blue Roof | 0 | 22 |
| **Total** | **29** | **3356** |

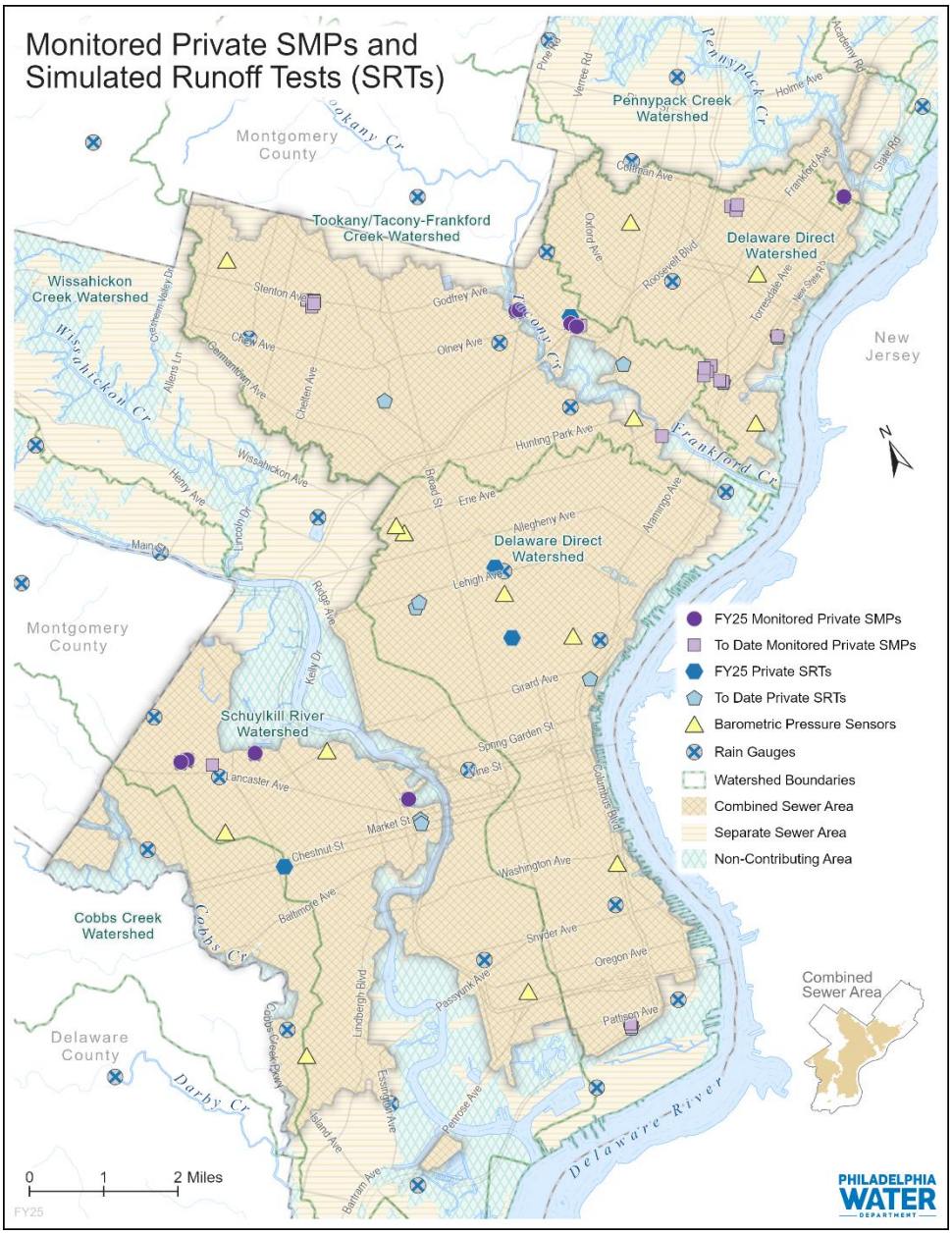



**Figure 6-1: Location of Private SMPs with Post-Construction Monitoring and Testing**

## 6.2 Simulated Runoff Testing (SRT)

Systems that show abnormal water level response typically undergo simulated runoff testing (SRT) using water hydrant flow, dye testing, and/or CCTV to determine if there are performance issues. Additionally, SRTs are performed at private regulated GSI systems for a baseline understanding of system performance prior to CWL monitoring, with this initiative beginning in FY24. As described in **Table 6-3**, 5 pre-inspection SRTs and 0 performance SRTs were performed on private GSI systems between July 1, 2024 to June 30, 2025. To-date (through FY25), a total of 36 post-construction SRTs have been performed on private GSI systems. The breakdown of SRTs per SMP type is shown in **Table 6-4**. FY25 SRT locations are shown **Figure 6-1**.

**Table 6-3: Post-Construction SRTs performed on Private Systems**

| SRT Type | FY25 | To-Date (through FY25) |
|---|---|---|
| Pre-Inspection Dye Test | 5 | 17 |
| CCTV Dye Test | 0 | 1 |
| Performance SRT | 0 | 18 |
| **Total** | **5** | **36** |

**Table 6-4: Private SMPs with Post-Construction SRTs Performed**

| System Type | FY25 | To-Date (through FY25) |
|---|---|---|
| Bioinfiltration/Bioretention | 0 | 1 |
| Basin | 4 | 21 |
| **Total** | **0** | **22** |

## 6.3 Capture Efficiency Testing (CET)

Capture efficiency testing (CET) is performed on a GSI inlet or other inflow structure to assess how well flow is being directed into those structures. Typically, all inflow structures at a GSI system are tested to assess a GSI system's overall capture efficiency, which aids in understanding the system's overall performance. In FY25, capture efficiency testing was performed on 1 private GSI system (see **Table 6-5**). To-date (through FY25), capture efficiency testing has been performed on 18 private GSI systems.

**Table 6-5: Private Systems with CETs Administered**

| | FY25 | To-Date (through FY25) |
|---|---|---|
| No. of Systems with CETs Administered | 1 | 19 |

## 6.4 Leakage Testing of GSI Structures

Older private GSI systems are known to have defective outlet structure weirs based on field observations. A retrofit of these weirs was implemented in FY23. A leakage testing method was adopted

to measure leakage to determine the effectiveness of the retrofit. In FY24, 0 private GSI systems had leakage tests performed.

## 6.5 Inlet Conveyance Testing

Inlet conveyance testing (ICT) is performed on a green inlet or other GSI inflow structure to assess the maximum flow rate the structure can convey to the system. These tests are performed when monitoring data indicates a lack of SMP response to precipitation events, or after maintenance, repairs, or modifications are completed on inflow structures or connected distribution piping. These tests aid in determining if performance issues observed via monitoring data can be attributed to conveyance issues. In FY25, inlet conveyance testing was performed on 1 private GSI system (see **Table 6-6**). To-date (through FY25), inlet conveyance testing has been performed on 6 private GSI systems.

**Table 6-6: Private Systems with ICTs Administered**

| | FY25 | To-date (through FY25) |
|---|---|---|
| No. of Systems with ICTs Administered | 1 | 6 |

## 6.6 Wet Weather Inspections

The Water Department performs wet weather inspections (WWIs) on private GSI systems when performing an SRT is not effective for evaluating system performance. This is often due to hydrant flow rate limitations relative to the drainage area and storage volume of a system, resulting in an insufficient volume of water delivered to the system in an acceptable timeframe. In FY25, a wet weather inspection was performed on 1 private GSI system (see **Table 6-7**). To-date (through FY25), wet weather inspections have been performed on 3 private GSI systems.

**Table 6-7: Private Systems with WWIs Administered**

| | FY25 | To-date (through FY25) |
|---|---|---|
| No. of Systems with WWIs Administered | 1 | 3 |

# 7.0 Other Testing and Monitoring Efforts

## *7.1 Sewer System Monitoring*

The Water Department continues to perform sewer system monitoring per the methods outlined in the CMP. More information is available in **Appendix B**.

## *7.2 Meteorological Monitoring*

The Water Department continues to perform meteorological monitoring, including operation and maintenance of a rain gauge network, as described in the CMP. More information is available in **Appendix B.**

## *7.3 Collection System Dye Testing*

The Water Department performs dye testing of gray inlets and private plumbing to identify sources of leakage into the sewer observed during testing and monitoring efforts, causes of sinkhole formations unrelated to GSI, and by request to aid in the GSI implementation process. In FY25, 4 collection system dye tests were performed (see **Table 7-1**). To-date (through FY25), 29 collection system dye tests have been performed.

**Table 7-1: Collection System Dye Tests Performed**

| | FY25 | To-date (through FY25) |
|---|---|---|
| No. of Collection System Dye Tests | 4 | 29 |

# 8.0 CMP Implementation Successes and Challenges Encountered

The Water Department continues to collect data from systems where challenges have been observed and interpreting cause(s) and verifying remediation measures. In FY25, inlet conveyance testing was performed to evaluate distribution pipe retrofits completed on crate storage trenches. These retrofits were completed to improve flow conveyance of and maintenance accessibility to the systems' distribution piping. Additionally, centralized GSI systems have become a greater point of interest of the Water Department, resulting in an increase in monitoring activity of these systems and more in-depth performance analyses to provide insight on design and maintenance practices.

The program has seen a continued demand for testing fully lined GSI systems during construction. Due to the time-sensitive nature of construction, a quick turnaround time is required for performing these SRTs. Methods have been refined and optimized accordingly to deliver testing results in an effective and

timely fashion. Since FY23, SRTs have been performed on fully lined GSI systems with the support of AKRF Inc., an effort that has allowed the Water Department to dedicate more resources to other testing and monitoring activities, such as increasing the number of post-construction GSI systems that can be tested and monitored. Findings and observations from these testing efforts continue to lead to updates and improvements to GSI design standards.

Occasional calibration issues have been observed with the pressure transducers used during testing and monitoring activities. As a result, beginning in FY24, drift testing is performed on pressure transducers to identify sensor drift or other performance issues to improve data integrity. This process continued in FY25, and a procedure was developed for identifying sensors in need of testing and documenting testing results. Following the completion of 53 tests, development began on a web application for documenting sensor drift testing.

FY25 saw a continuation of testing and monitoring private GSI systems to gain a better understanding of their performance, as they encompass a large percentage of GSI in Philadelphia and are significantly underrepresented in the Water Department's monitoring efforts. Extensive performance evaluations are conducted on these systems, and observations from testing and monitoring efforts continue to be incorporated into updates to the Philadelphia Stormwater Management Guidance Manual (SMGM). Beginning in FY24, the Water Department began monitoring private regulated GSI, as all prior monitoring efforts focused on private retrofit GSI. The Water Department is currently focusing on testing and monitoring one new private regulated system per quarter. Testing and monitoring of private GSI involves unique challenges, including increased coordination with multiple Water Department units, and communication with third parties such as property owners and managers to provide notification of testing and monitoring activities and to ensure the Water Department has sufficient access to the property. Additionally, these systems may require wet weather inspections due to their drainage area and storage volume being too large for an SRT to be effective.

Significant developments were made in FY25 to the software used for monitoring purposes, allowing for more efficient data management, as well as planning and documentation of fieldwork activities. This continued centralization of recordkeeping reduces the need for tracking fieldwork over multiple Office-based files and has improved the efficiency and turnaround time of fieldwork deliverables and the processing of monitoring data. Additionally, these software developments allow for more in-depth analyses of GSI performance. These performance analyses can be conducted on an individual system level, or to identify performance trends using data from several systems, such as with infiltration trend and green inlet conveyance analyses.

An extensive review of design, survey, and fieldwork documentation of over 300 monitoring locations was completed to validate elevations of observation well sumps and underdrain orifices, allowing for more accurate interpretation of water level data. The procedure used for calculating these elevations is used for all new monitoring locations, and the fieldwork app has been updated to store this information and make it easily accessible.

# Appendix B – Flow Monitoring

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**Table 1 - Summary of All Monitors**

| | # of Permanent Monitors | # of Temporary Monitors |
|---|---|---|
| Combined/Separate Sewer Monitors | 444 | 71 |
| Outlying Community Monitors | 63 | - |
| Pumping Stations | 82 | - |
| Rain Gages | 37 | 1 |
| **Total** | 651 | 72 |

**Table 2 - Listing of Monitored Outlying Community Connections**

| Site ID | Connection Type | Township | Measurement Name | Measurement Type |
|---|---|---|---|---|
| MA_1 | STD | Abington | TEMPORARY | FLOW |
| MA_2 | MTR | Abington | METERING CHAMBER FLOW | FLOW |
| MA_3 | STD | Abington | TEMPORARY | FLOW |
| MA_4 | STD | Abington | TEMPORARY | FLOW |
| MAx1 | STD | Abington | TEMPORARY | FLOW |
| MB_1 | MTR | Bucks Co. | METERING CHAMBER FLOW | FLOW |
| MBE_01 | MTR | Bensalem | METERING CHAMBER FLOW | FLOW |
| MBE_02 | MTR | Bensalem | METERING CHAMBER FLOW | FLOW |
| MBE_03 | MTR | Bensalem | METERING CHAMBER FLOW | FLOW |
| MBE_04 | MTR | Bensalem | METERING CHAMBER FLOW | FLOW |
| MBE_05 | MTR | Bensalem | METERING CHAMBER FLOW | FLOW |
| MBE_06 | MTR | Bensalem | METERING CHAMBER FLOW | FLOW |
| MBE_07 | MTR | Bensalem | METERING CHAMBER FLOW | FLOW |
| MBE_08 | MTR | Bensalem | METERING CHAMBER FLOW | FLOW |
| MBE_09 | MTR | Bensalem | METERING CHAMBER FLOW | FLOW |
| MBE_10 | MTR | Bensalem | METERING CHAMBER FLOW | FLOW |
| MBE_11 | MTR | Bensalem | METERING CHAMBER FLOW | FLOW |
| MBE_12 | MTR | Bensalem | METERING CHAMBER FLOW | FLOW |
| MBE_13 | MTR | Bensalem | METERING CHAMBER FLOW | FLOW |
| MBE_14 | MTR | Bensalem | METERING CHAMBER FLOW | FLOW |
| MBE_15 | | Bensalem | UNMONITORED | |
| MBE_16 | MTR | Bensalem | METERING CHAMBER FLOW | FLOW |
| MBE_17 | MTR | Bensalem | METERING CHAMBER FLOW | FLOW |
| MC_1 | MTR | Cheltenham | METERING CHAMBER FLOW | FLOW |
| MC_2 | MTR | Cheltenham | METERING CHAMBER FLOW | FLOW |
| MC_3 | MTR | Abington | METERING CHAMBER FLOW | FLOW |
| MCx_1 | MTR | Cheltenham | METERING CHAMBER FLOW | FLOW |
| MCx_2 | MTR | Cheltenham | METERING CHAMBER FLOW | FLOW |
| MCx_3 | MTR | Cheltenham | METERING CHAMBER FLOW | FLOW |
| MCx_4 | MTR | Cheltenham | METERING CHAMBER FLOW | FLOW |
| MCx_5 | MTR | Cheltenham | METERING CHAMBER FLOW | FLOW |
| MCx_6 | MTR | Cheltenham | METERING CHAMBER FLOW | FLOW |
| MCx_7 | MTR | Cheltenham | METERING CHAMBER FLOW | FLOW |
| MD_1 | MTR | Delaware Co. | METERING CHAMBER FLOW | FLOW |
| ML_1 | MTR | Lower Merion | METERING CHAMBER FLOW | FLOW |
| ML_2 | STD | Lower Merion | TEMPORARY | FLOW |
| ML_3 | MTR | Lower Merion | METERING CHAMBER FLOW | FLOW |

| Site ID | Connection Type | Township | Measurement Name | Measurement Type |
|---|---|---|---|---|
| ML_4 | MTR | Lower Merion | METERING CHAMBER FLOW | FLOW |
| ML_5 | MTR | Lower Merion | METERING CHAMBER FLOW | FLOW |
| ML_6 | MTR | Lower Merion | METERING CHAMBER FLOW | FLOW |
| ML_7 | MTR | Lower Merion | METERING CHAMBER FLOW | FLOW |
| MLM_1 | MTR | Lower Moreland | METERING CHAMBER FLOW | FLOW |
| MLM_2 | MTR | Lower Moreland | METERING CHAMBER FLOW | FLOW |
| MLM_3 | STD | Lower Moreland | TEMPORARY | FLOW |
| MLM_4 | STD | Lower Moreland | TEMPORARY | FLOW |
| MLM_5 | STD | Lower Moreland | TEMPORARY | FLOW |
| MLM_6 | STD | Lower Moreland | TEMPORARY | UNKNOWN |
| MLM_7 | STD | Lower Moreland | TEMPORARY | UNKNOWN |
| MS_1 | STD | Springfield | TEMPORARY | FLOW |
| MS_2 | MTR | Springfield | METERING CHAMBER FLOW | FLOW |
| MS_3 | MTR | Springfield | METERING CHAMBER FLOW | FLOW |
| MS_4 | STD | Springfield | TEMPORARY | FLOW |
| MS_5 | STD | Springfield | TEMPORARY | FLOW |
| MS_6 | MTR | Springfield | METERING CHAMBER FLOW | FLOW |
| MS_7 | STD | Springfield | TEMPORARY | UNKNOWN |
| MS_8 | STD | Springfield | TEMPORARY | FLOW |
| MSH_1 | MTR | Southampton | METERING CHAMBER FLOW | FLOW |
| MSH_2 | STD | Southampton | TEMPORARY | FLOW |
| MSHX_1 | STD | Southampton | TEMPORARY | FLOW |
| MSHX_2 | STD | Southampton | TEMPORARY | FLOW |
| MUD_1N | MTR | Upper Darby | METERING CHAMBER FLOW | FLOW |
| MUD_1S | MTR | Upper Darby | METERING CHAMBER FLOW | FLOW |
| MUD_1O | MTR | Upper Darby | METERING CHAMBER FLOW | FLOW |

*STD – temporary flow monitor

**MTR – Permanent monitor

**Table 3 - Listing of Combined/Separate Sewer Monitors**

| Site Name | Interceptor | Waterbody | Measurement Name | Measurement Type |
|---|---|---|---|---|
| C_01 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_01 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_02 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_02 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_04 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_04 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_04A | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_04A | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_05 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_05 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_06 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_06 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_07 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_07 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_09 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_09 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_10 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_10 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_11 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_11 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_12 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_12 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_14 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_14 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_15 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_15 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_17 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_17 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_18 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_18 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_19 | Cobbs Creek Low Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_19 | Cobbs Creek Low Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_20 | Cobbs Creek Low Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_20 | Cobbs Creek Low Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_21 | Cobbs Creek Low Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_21 | Cobbs Creek Low Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_22 | Cobbs Creek Low Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_22 | Cobbs Creek Low Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_23 | Cobbs Creek Low Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_23 | Cobbs Creek Low Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_24 | Cobbs Creek Low Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_24 | Cobbs Creek Low Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_26 | Cobbs Creek Low Level | Cobbs Creek | SWO LEVEL | LEVEL |

| Site Name | Interceptor | Waterbody | Measurement Name | Measurement Type |
|---|---|---|---|---|
| C_26 | Cobbs Creek Low Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_28A | Cobbs Creek Low Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_28A | Cobbs Creek Low Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_29 | Cobbs Creek Low Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_29 | Cobbs Creek Low Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_30 | Cobbs Creek Low Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_30 | Cobbs Creek Low Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_31 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_31 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_32 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_32 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_33 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_33 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_34 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_34 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_35 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_35 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_36 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_36 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| C_37 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| C_37 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| CSPS | Central Schuylkill | Schuylkill River | INTERCEPTOR LEVEL N | LEVEL |
| CSPS | Central Schuylkill | Schuylkill River | INTERCEPTOR LEVEL S | LEVEL |
| D_02 | Upper Delaware Low Level | Delaware River | DWO GATE POSITION | POSITION |
| D_02 | Upper Delaware Low Level | Delaware River | DWO LEVEL | LEVEL |
| D_02 | Upper Delaware Low Level | Delaware River | SWO GATE POSITION | POSITION |
| D_02 | Upper Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_02 | Upper Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_03 | Upper Delaware Low Level | Delaware River | DWO GATE POSITION | POSITION |
| D_03 | Upper Delaware Low Level | Delaware River | DWO LEVEL | LEVEL |
| D_03 | Upper Delaware Low Level | Delaware River | SWO GATE POSITION | POSITION |
| D_03 | Upper Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_03 | Upper Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_04 | Upper Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_04 | Upper Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_05 | Upper Delaware Low Level | Delaware River | DWO GATE POSITION | POSITION |
| D_05 | Upper Delaware Low Level | Delaware River | DWO LEVEL | LEVEL |
| D_05 | Upper Delaware Low Level | Delaware River | SWO GATE POSITION | POSITION |
| D_05 | Upper Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_05 | Upper Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_06 | Upper Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_06 | Upper Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_07 | Upper Delaware Low Level | Delaware River | DWO GATE POSITION | POSITION |
| D_07 | Upper Delaware Low Level | Delaware River | DWO LEVEL | LEVEL |

| Site Name | Interceptor | Waterbody | Measurement Name | Measurement Type |
|---|---|---|---|---|
| D_07 | Upper Delaware Low Level | Delaware River | SWO GATE POSITION 1 | POSITION |
| D_07 | Upper Delaware Low Level | Delaware River | SWO GATE POSITION 2 | POSITION |
| D_07 | Upper Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_07 | Upper Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_08 | Upper Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_08 | Upper Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_09 | Upper Delaware Low Level | Delaware River | DWO GATE POSITION | POSITION |
| D_09 | Upper Delaware Low Level | Delaware River | SWO GATE POSITION | POSITION |
| D_09 | Upper Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_09 | Upper Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_11 | Upper Delaware Low Level | Delaware River | DWO GATE POSITION | POSITION |
| D_11 | Upper Delaware Low Level | Delaware River | DWO LEVEL | LEVEL |
| D_11 | Upper Delaware Low Level | Delaware River | SWO GATE POSITION | POSITION |
| D_11 | Upper Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_11 | Upper Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_12 | Upper Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_12 | Upper Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_13 | Upper Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_13 | Upper Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_15 | Upper Delaware Low Level | Delaware River | DWO GATE POSITION | POSITION |
| D_15 | Upper Delaware Low Level | Delaware River | DWO LEVEL | LEVEL |
| D_15 | Upper Delaware Low Level | Delaware River | SWO GATE POSITION | POSITION |
| D_15 | Upper Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_15 | Upper Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_17 | Somerset | Delaware River | SWO LEVEL | LEVEL |
| D_17 | Somerset | Delaware River | TRUNK LEVEL | LEVEL |
| D_18 | Somerset | Delaware River | SWO LEVEL | LEVEL |
| D_18 | Somerset | Delaware River | TRUNK LEVEL | LEVEL |
| D_19 | Somerset | Delaware River | SWO LEVEL | LEVEL |
| D_19 | Somerset | Delaware River | TRUNK LEVEL | LEVEL |
| D_20 | Somerset | Delaware River | SWO LEVEL | LEVEL |
| D_20 | Somerset | Delaware River | TRUNK LEVEL | LEVEL |
| D_21 | Somerset | Delaware River | SWO LEVEL | LEVEL |
| D_21 | Somerset | Delaware River | TRUNK LEVEL | LEVEL |
| D_22 | Somerset | Delaware River | SWO LEVEL | LEVEL |
| D_22 | Somerset | Delaware River | TRUNK LEVEL | LEVEL |
| D_23 | Somerset | Delaware River | SWO LEVEL | LEVEL |
| D_23 | Somerset | Delaware River | TRUNK LEVEL | LEVEL |
| D_24 | Somerset | Delaware River | SWO LEVEL | LEVEL |
| D_24 | Somerset | Delaware River | TRUNK LEVEL | LEVEL |
| D_25 | Somerset | Delaware River | SWO LEVEL | LEVEL |
| D_25 | Somerset | Delaware River | TRUNK LEVEL | LEVEL |
| D_37 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_37 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |

| Site Name | Interceptor | Waterbody | Measurement Name | Measurement Type |
|---|---|---|---|---|
| D_38 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_38 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_39 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_39 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_40 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_40 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_41 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_41 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_42 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_42 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_43 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_43 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_44 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_44 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_45 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_45 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_46 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_46 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_47 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_47 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_48 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_48 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_49 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_49 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_50 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_50 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_51 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_51 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_51 | Lower Delaware Low Level | Delaware River | DWO LEVEL | LEVEL |
| D_52 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_52 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_53 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_53 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_54 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_54 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_58 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_58 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_61 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_61 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_62 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_62 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_63 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_63 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_64 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |

| Site Name | Interceptor | Waterbody | Measurement Name | Measurement Type |
|---|---|---|---|---|
| D_64 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_65 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_65 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_66 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_66 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_67 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_67 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_68 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_68 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_69 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_69 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_70 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_70 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_72 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_72 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| D_73 | Lower Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| D_73 | Lower Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| F_03 | Lower Frankford Low Level | Frankford Creek | SWO LEVEL | LEVEL |
| F_03 | Lower Frankford Low Level | Frankford Creek | TRUNK LEVEL | LEVEL |
| F_04 | Lower Frankford Low Level | Frankford Creek | SWO LEVEL | LEVEL |
| F_04 | Lower Frankford Low Level | Frankford Creek | TRUNK LEVEL | LEVEL |
| F_05 | Lower Frankford Low Level | Frankford Creek | SWO LEVEL | LEVEL |
| F_05 | Lower Frankford Low Level | Frankford Creek | TRUNK LEVEL | LEVEL |
| F_06 | Lower Frankford Low Level | Frankford Creek | SWO LEVEL | LEVEL |
| F_06 | Lower Frankford Low Level | Frankford Creek | TRUNK LEVEL | LEVEL |
| F_07 | Lower Frankford Low Level | Frankford Creek | SWO LEVEL | LEVEL |
| F_07 | Lower Frankford Low Level | Frankford Creek | TRUNK LEVEL | LEVEL |
| F_08 | Lower Frankford Low Level | Frankford Creek | SWO LEVEL | LEVEL |
| F_08 | Lower Frankford Low Level | Frankford Creek | TRUNK LEVEL | LEVEL |
| F_09 | Lower Frankford Low Level | Frankford Creek | SWO LEVEL | LEVEL |
| F_09 | Lower Frankford Low Level | Frankford Creek | TRUNK LEVEL | LEVEL |
| F_10 | Lower Frankford Low Level | Frankford Creek | SWO LEVEL | LEVEL |
| F_10 | Lower Frankford Low Level | Frankford Creek | TRUNK LEVEL | LEVEL |
| F_11 | Lower Frankford Low Level | Frankford Creek | SWO LEVEL | LEVEL |
| F_11 | Lower Frankford Low Level | Frankford Creek | TRUNK LEVEL | LEVEL |
| F_12 | Lower Frankford Low Level | Frankford Creek | SWO LEVEL | LEVEL |
| F_12 | Lower Frankford Low Level | Frankford Creek | TRUNK LEVEL | LEVEL |
| F_13 | Lower Frankford Creek | Frankford Creek | SWO LEVEL | LEVEL |
| F_13 | Lower Frankford Creek | Frankford Creek | TRUNK LEVEL | LEVEL |
| F_14 | Lower Frankford Creek | Frankford Creek | SWO LEVEL | LEVEL |
| F_14 | Lower Frankford Creek | Frankford Creek | TRUNK LEVEL | LEVEL |
| F_23 | Lower Frankford Creek | Frankford Creek | SWO LEVEL | LEVEL |
| F_23 | Lower Frankford Creek | Frankford Creek | TRUNK LEVEL | LEVEL |
| F_24 | Lower Frankford Creek | Frankford Creek | SWO LEVEL | LEVEL |

| Site Name | Interceptor | Waterbody | Measurement Name | Measurement Type |
|---|---|---|---|---|
| F_24 | Lower Frankford Creek | Frankford Creek | TRUNK LEVEL | LEVEL |
| F_25 | Lower Frankford Creek | Frankford Creek | DWO GATE POSITION | POSITION |
| F_25 | Lower Frankford Creek | Frankford Creek | DWO LEVEL | LEVEL |
| F_25 | Lower Frankford Creek | Frankford Creek | SWO GATE POSITION | POSITION |
| F_25 | Lower Frankford Creek | Frankford Creek | SWO LEVEL | LEVEL |
| F_25 | Lower Frankford Creek | Frankford Creek | TRUNK LEVEL | LEVEL |
| H_29 | | Schuylkill River | DWO LEVEL | LEVEL |
| H_29 | | Schuylkill River | SWO LEVEL | LEVEL |
| H_29 | | Schuylkill River | TRUNK LEVEL | LEVEL |
| H_35 | | Schuylkill River | BLOWER 1 RUN | EVENT |
| H_35 | | Schuylkill River | BLOWER 2 RUN | EVENT |
| H_35 | | Schuylkill River | DAM AIR PRESSURE | PSI |
| H_35 | | Schuylkill River | DWO GATE POSITION | POSITION |
| H_35 | | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| H_35 | | Schuylkill River | SWO GATE OPEN | EVENT |
| H_35 | | Schuylkill River | TRUNK LEVEL | LEVEL |
| I_BYH09 | | Byberry Creek | INTERCEPTOR LEVEL | LEVEL |
| I_CCHLC07 | Cobbs Creek High Level | Cobbs Creek | INTERCEPTOR LEVEL | LEVEL |
| I_CCHLC14 | Cobbs Creek High Level | Cobbs Creek | INTERCEPTOR LEVEL | LEVEL |
| I_CCHLC17 | Cobbs Creek High Level | Cobbs Creek | INTERCEPTOR LEVEL | LEVEL |
| I_CCHLC18 | Cobbs Creek High Level | Cobbs Creek | INTERCEPTOR LEVEL | LEVEL |
| I_CCHLC34 | Cobbs Creek High Level | Cobbs Creek | INTERCEPTOR LEVEL | LEVEL |
| I_CCHLH18 | Cobbs Creek High Level | Cobbs Creek | INTERCEPTOR LEVEL | LEVEL |
| I_CCLLC19 | Cobbs Creek Low Level | Cobbs Creek | INTERCEPTOR LEVEL | LEVEL |
| I_CCLLC20 | Cobbs Creek Low Level | Cobbs Creek | INTERCEPTOR LEVEL | LEVEL |
| I_CCLLC22 | Cobbs Creek Low Level | Cobbs Creek | INTERCEPTOR LEVEL | LEVEL |
| I_CCLLC24 | Cobbs Creek Low Level | Cobbs Creek | INTERCEPTOR LEVEL | LEVEL |
| I_CCLLC26 | Cobbs Creek Low Level | Cobbs Creek | INTERCEPTOR LEVEL | LEVEL |
| I_CCLLH01 | Cobbs Creek Low Level | Cobbs Creek | INTERCEPTOR LEVEL | LEVEL |
| I_COHOH16 | | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_CSESS17 | Central Schuylkill East Side | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_CSESS26 | Central Schuylkill East Side | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_CVBH08 | | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_FHLTT08 | Frankford High Level | Frankford Creek | INTERCEPTOR LEVEL | LEVEL |
| I_FHLTT15 | Frankford High Level | Frankford Creek | INTERCEPTOR LEVEL | LEVEL |
| I_LDLLD47 | Lower Delaware Low Level | Delaware River | INTERCEPTOR LEVEL | LEVEL |
| I_LDLLD53 | Lower Delaware Low Level | Delaware River | INTERCEPTOR LEVEL | LEVEL |
| I_LDLLD69 | Lower Delaware Low Level | Delaware River | INTERCEPTOR LEVEL | LEVEL |
| I_LDLLD70 | Lower Delaware Low Level | Delaware River | INTERCEPTOR LEVEL | LEVEL |
| I_LFCH19 | Lower Frankford Creek | Frankford Creek | INTERCEPTOR LEVEL | LEVEL |
| I_LSESS36A | Lower Schuylkill East Side | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_LSWSH01 | Lower Schuylkill West Side | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_LSWSS33 | Lower Schuylkill West Side | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_LSWSS38 | Lower Schuylkill West Side | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |

| Site Name | Interceptor | Waterbody | Measurement Name | Measurement Type |
|---|---|---|---|---|
| I_LSWSS45 | Lower Schuylkill West Side | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_MRH21 | Main Relief Sewer | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_OH12 | | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_PASYH13 | | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_PDRLH01 | | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_PDRLH02 | | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_PENRH02 | | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_PH04 | Pennypack | Pennypack Creek | INTERCEPTOR LEVEL | LEVEL |
| I_PH05 | Pennypack | Pennypack Creek | INTERCEPTOR LEVEL | LEVEL |
| I_PH06 | Pennypack | Pennypack Creek | INTERCEPTOR LEVEL | LEVEL |
| I_PH10 | Pennypack | Pennypack Creek | INTERCEPTOR LEVEL | LEVEL |
| I_PP02 | Pennypack | Pennypack Creek | INTERCEPTOR LEVEL | LEVEL |
| I_PP05 | Pennypack | Pennypack Creek | INTERCEPTOR LEVEL | LEVEL |
| I_PQH09 | Poquessing | Poquessing Creek | INTERCEPTOR LEVEL | LEVEL |
| I_PRH10 | | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_SD19 | Somerset | Delaware River | INTERCEPTOR LEVEL | LEVEL |
| I_SD21 | Somerset | Delaware River | INTERCEPTOR LEVEL | LEVEL |
| I_SD25 | Somerset | Delaware River | INTERCEPTOR LEVEL | LEVEL |
| I_SRH05 | | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_SWMGCHLH01 | Southwest Main Gravity | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_SWMGEHLH01 | Southwest Main Gravity | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_SWMGH17 | Southwest Main Gravity | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_SWMGH20 | Southwest Main Gravity | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_SWMGS28 | Southwest Main Gravity | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_SWMGS34 | Southwest Main Gravity | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_SWMGS43 | Southwest Main Gravity | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_SWMGS47 | Southwest Main Gravity | Schuylkill River | INTERCEPTOR LEVEL | LEVEL |
| I_SWMGWHLH01 | Southwest Main Gravity | Schuylkill River | INTERCEPTOR FLOW | FLOW |
| I_UDLLD08 | Upper Delaware Low Level | Delaware River | INTERCEPTOR LEVEL | LEVEL |
| I_UDLLH04N | Upper Delaware Low Level | Delaware River | INTERCEPTOR LEVEL | LEVEL |
| I_UDLLH07 | Upper Delaware Low Level | Delaware River | INTERCEPTOR LEVEL | LEVEL |
| I_UDLLH14 | Upper Delaware Low Level | Delaware River | INTERCEPTOR LEVEL | LEVEL |
| I_WBH06 | | Wissahickon Creek | INTERCEPTOR LEVEL | LEVEL |
| I_WHLH08 | Wissahickon High Level | Wissahickon Creek | INTERCEPTOR LEVEL | LEVEL |
| P_01 | Pennypack | Pennypack Creek | SWO LEVEL | LEVEL |
| P_01 | Pennypack | Pennypack Creek | TRUNK LEVEL | LEVEL |

| Site Name | Interceptor | Waterbody | Measurement Name | Measurement Type |
|---|---|---|---|---|
| P_02 | Pennypack | Pennypack Creek | SWO LEVEL | LEVEL |
| P_02 | Pennypack | Pennypack Creek | TRUNK LEVEL | LEVEL |
| P_03 | Pennypack | Pennypack Creek | SWO LEVEL | LEVEL |
| P_03 | Pennypack | Pennypack Creek | TRUNK LEVEL | LEVEL |
| P_04 | Pennypack | Pennypack Creek | SWO LEVEL | LEVEL |
| P_04 | Pennypack | Pennypack Creek | TRUNK LEVEL | LEVEL |
| P_05 | Pennypack | Pennypack Creek | SWO LEVEL | LEVEL |
| P_05 | Pennypack | Pennypack Creek | TRUNK LEVEL | LEVEL |
| R_06 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| R_06 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| R_07 | Main Relief Sewer | Schuylkill River | SWO LEVEL | LEVEL |
| R_07 | Main Relief Sewer | Schuylkill River | TRUNK LEVEL | LEVEL |
| R_12 | Central Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| R_12 | Central Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| R_13 | Upper Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| R_13 | Upper Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| R_14 | Upper Delaware Low Level | Delaware River | SWO LEVEL | LEVEL |
| R_14 | Upper Delaware Low Level | Delaware River | TRUNK LEVEL | LEVEL |
| R_15 | Frankford High Level | Tacony Creek | SWO LEVEL | LEVEL |
| R_15 | Frankford High Level | Tacony Creek | TRUNK LEVEL | LEVEL |
| R_18 | Frankford High Level | Tacony Creek | INTERCEPTOR LEVEL | LEVEL |
| R_18 | Frankford High Level | Tacony Creek | SWO LEVEL | LEVEL |
| R_20 | Central Schuylkill East Side | Schuylkill River | INTERCEPTOR LEVEL (PRESSURE) | LEVEL |
| R_20 | Central Schuylkill East Side | Schuylkill River | INTERCEPTOR LEVEL (RADAR) | LEVEL |
| R_20 | Central Schuylkill East Side | Schuylkill River | STORMWATER LEVEL | LEVEL |
| R_24 | Cobbs Creek High Level | Cobbs Creek | SWO LEVEL | LEVEL |
| R_24 | Cobbs Creek High Level | Cobbs Creek | TRUNK LEVEL | LEVEL |
| S_01 | Central Schuylkill West Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_01 | Central Schuylkill West Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_03 | Central Schuylkill West Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_03 | Central Schuylkill West Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_04 | Central Schuylkill West Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_04 | Central Schuylkill West Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_05 | Central Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_05 | Central Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_06 | Central Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_06 | Central Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_07 | Central Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_07 | Central Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_08 | Central Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_08 | Central Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_11 | Central Schuylkill West Side | Schuylkill River | SWO LEVEL | LEVEL |

| Site Name | Interceptor | Waterbody | Measurement Name | Measurement Type |
|---|---|---|---|---|
| S_11 | Central Schuylkill West Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_12 | Central Schuylkill West Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_12 | Central Schuylkill West Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_12A | Central Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_12A | Central Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_13 | Central Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_13 | Central Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_15 | Central Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_15 | Central Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_17 | Central Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_17 | Central Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_18 | Central Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_18 | Central Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_22 | Central Schuylkill West Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_22 | Central Schuylkill West Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_23 | Central Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_23 | Central Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_24 | Central Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_24 | Central Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_25 | Central Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_25 | Central Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_26 | Central Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_26 | Central Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_27 | Central Schuylkill East Side | Schuylkill River | DWO LEVEL | LEVEL |
| S_27 | Central Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_27 | Central Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_28 | Central Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_28 | Central Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_30 | Southwest Main Gravity | Schuylkill River | SWO LEVEL | LEVEL |
| S_30 | Southwest Main Gravity | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_31 | Lower Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_31 | Lower Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_32 | Lower Schuylkill West Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_32 | Lower Schuylkill West Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_32 | Lower Schuylkill West Side | Schuylkill River | DWO LEVEL | LEVEL |
| S_33 | Lower Schuylkill West Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_33 | Lower Schuylkill West Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_34 | Lower Schuylkill West Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_34 | Lower Schuylkill West Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_35 | Lower Schuylkill West Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_35 | Lower Schuylkill West Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_36 | Lower Schuylkill West Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_36 | Lower Schuylkill West Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_36A | Lower Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |

| Site Name | Interceptor | Waterbody | Measurement Name | Measurement Type |
|---|---|---|---|---|
| S_36A | Lower Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_37 | Lower Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_37 | Lower Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_38 | Lower Schuylkill West Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_38 | Lower Schuylkill West Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_39 | Lower Schuylkill West Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_39 | Lower Schuylkill West Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_40 | Lower Schuylkill West Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_40 | Lower Schuylkill West Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_42 | Lower Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_42 | Lower Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_42A | Lower Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_42A | Lower Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_43 | Lower Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_43 | Lower Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_44 | Lower Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_44 | Lower Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_45 | Lower Schuylkill West Side | Schuylkill River | DWO LEVEL | LEVEL |
| S_45 | Lower Schuylkill West Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_45 | Lower Schuylkill West Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_46 | Lower Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_46 | Lower Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_47 | Lower Schuylkill East Side | Schuylkill River | SWO LEVEL | LEVEL |
| S_47 | Lower Schuylkill East Side | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_50 | Southwest Main Gravity | Schuylkill River | SWO LEVEL | LEVEL |
| S_50 | Southwest Main Gravity | Schuylkill River | TRUNK LEVEL | LEVEL |
| S_51 | Southwest Main Gravity | Schuylkill River | SWO LEVEL | LEVEL |
| S_51 | Southwest Main Gravity | Schuylkill River | TRUNK LEVEL | LEVEL |
| T_01 | Frankford High Level | Tacony Creek | SWO LEVEL | LEVEL |
| T_01 | Frankford High Level | Tacony Creek | TRUNK LEVEL | LEVEL |
| T_03 | Frankford High Level | Tacony Creek | SWO LEVEL | LEVEL |
| T_03 | Frankford High Level | Tacony Creek | TRUNK LEVEL | LEVEL |
| T_04 | Frankford High Level | Tacony Creek | SWO LEVEL | LEVEL |
| T_04 | Frankford High Level | Tacony Creek | TRUNK LEVEL | LEVEL |
| T_05 | Frankford High Level | Tacony Creek | SWO LEVEL | LEVEL |
| T_05 | Frankford High Level | Tacony Creek | TRUNK LEVEL | LEVEL |
| T_06 | Frankford High Level | Tacony Creek | SWO LEVEL | LEVEL |
| T_06 | Frankford High Level | Tacony Creek | TRUNK LEVEL | LEVEL |
| T_07 | Frankford High Level | Tacony Creek | SWO LEVEL | LEVEL |
| T_07 | Frankford High Level | Tacony Creek | TRUNK LEVEL | LEVEL |
| T_08 | Frankford High Level | Tacony Creek | SWO LEVEL | LEVEL |
| T_08 | Frankford High Level | Tacony Creek | TRUNK LEVEL | LEVEL |
| T_09 | Frankford High Level | Tacony Creek | SWO LEVEL | LEVEL |
| T_09 | Frankford High Level | Tacony Creek | TRUNK LEVEL | LEVEL |

| Site Name | Interceptor | Waterbody | Measurement Name | Measurement Type |
|---|---|---|---|---|
| T_10 | Frankford High Level | Tacony Creek | SWO LEVEL | LEVEL |
| T_10 | Frankford High Level | Tacony Creek | TRUNK LEVEL | LEVEL |
| T_11 | Frankford High Level | Tacony Creek | SWO LEVEL | LEVEL |
| T_11 | Frankford High Level | Tacony Creek | TRUNK LEVEL | LEVEL |
| T_12 | Frankford High Level | Tacony Creek | SWO LEVEL | LEVEL |
| T_12 | Frankford High Level | Tacony Creek | TRUNK LEVEL | LEVEL |
| T_13 | Frankford High Level | Tacony Creek | SWO LEVEL | LEVEL |
| T_13 | Frankford High Level | Tacony Creek | TRUNK LEVEL | LEVEL |
| T_14 | Frankford High Level | Tacony Creek | DWO GATE 1 | POSITION |
| T_14 | Frankford High Level | Tacony Creek | DWO GATE 2 | POSITION |
| T_14 | Frankford High Level | Tacony Creek | SWO CREST GATE | POSITION |
| T_14 | Frankford High Level | Tacony Creek | SWO LEVEL | LEVEL |
| T_14 | Frankford High Level | Tacony Creek | TRUNK LEVEL | LEVEL |
| T_15 | Frankford High Level | Tacony Creek | SWO LEVEL | LEVEL |
| T_15 | Frankford High Level | Tacony Creek | TRUNK LEVEL | LEVEL |

**Table 4 - Listing of all Rain Gages (7/1/2024 - 6/30/2025)**

| Rain Gage | Location | Percent Working |
|---|---|---|
| RG_1 | 70th and Essington Ave | 0.00% |
| RG_2 | 66th and Regent St | 99.99% |
| RG_3 | Fox Chase Rd. and Castor Ave | 69.77% |
| RG_4 | State Rd and Pennypack St | 74.38% |
| RG_5 | 3rd and Mifflin St | 63.85% |
| RG_6 | Cardinal Ave and City Line Ave | 83.38% |
| RG_7 | G St. and E Annsbury St | 91.04% |
| RG_8 | N Water St. and E Clarkson Ave | 97.77% |
| RG_9 | 54th and Lancaster Ave | 96.61% |
| RG_10 | Pine Rd and Susquehanna Rd | 78.35% |
| RG_11 | Rising Sun Ave and Lardner St | 97.84% |
| RG_12 | Pattison Ave and Columbus Blvd | 92.11% |
| RG_13 | Glendale Ave and Algon Ave | 87.29% |
| RG_14 | Delaware Ave and Lewis St | 69.02% |
| RG_15 | E Montgomery Ave and Thompson St | 73.27% |
| RG_16 | 19th and Wood St | 99.67% |
| RG_17 | Saul St. and Benner St | 99.99% |
| RG_18 | Fox St. and Roosevelt Blvd | 89.21% |
| RG_19 | Chew Ave and Sharpnack St | 97.05% |
| RG_20 | Woodhaven Rd and Knights Rd | 53.63% |
| RG_21 | Shawmont Ave and Eva St | 94.93% |
| RG_22 | N 67th and Callowhill St | 81.70% |
| RG_23 | Penrose Ave and Mingo Ave | 96.41% |
| RG_24 | Lockart Rd and Lockart Ln | 96.14% |
| RG_25 | 24th and Wolf St | 68.55% |
| RG_26 | 621 Lehigh Ave | 68.94% |
| RG_27 | Grant Ave and Ashford Rd | 75.45% |
| RG_28 | 1350 Southampton Rd | 90.49% |
| RG_29 | Springfield Way and PaperMill Rd | 77.78% |
| RG_30 | 7609 Montgomery Ave | 0.00% |
| RG_31 | Valley Rd and Old Valley Rd | 90.46% |
| RG_32 | Rozel Ave and Crushmore Rd | 80.53% |
| RG_33 | Jackson St and E Broadway Ave | 69.24% |
| RG_34 | Lawrence Rd and Chester Ave | 0.00% |
| RG_35 | Hagysford Rd and Tower Lane | 97.65% |
| RG_36 | Schuylkill Canal and Lock St | 52.88% |
| RG_37 | S 13 St and Normandy Pl | 98.87% |

**Table 5 - Listing of All Pumping Station Monitors**

| Monitor ID | Type of Pumping Station | Measurement Name | Measurement Type | Address |
|---|---|---|---|---|
| PS_26VA | Storm Water | PUMP 1 RUN | EVENT | 26th and Vare Ave |
| PS_26VA | Storm Water | PUMP 2 RUN | EVENT | 27th and Vare Ave |
| PS_26VA | Storm Water | WET WELL LEVEL | LEVEL | 28th and Vare Ave |
| PS_42ST | Waste Water | PUMP 1 RUN | EVENT | 761 S 43rd St |
| PS_42ST | Waste Water | PUMP 2 RUN | EVENT | 762 S 43rd St |
| PS_42ST | Waste Water | PUMP 3 RUN | EVENT | 763 S 43rd St |
| PS_42ST | Waste Water | WET WELL LEVEL | LEVEL | 764 S 43rd St |
| PS_BANK | Waste Water | PUMP 1 RUN | EVENT | 15 S Bank St (Bank & Elbow Ln) |
| PS_BANK | Waste Water | PUMP 2 RUN | EVENT | 16 S Bank St (Bank & Elbow Ln) |
| PS_BANK | Waste Water | WET WELL LEVEL | LEVEL | 17 S Bank St (Bank & Elbow Ln) |
| PS_BELD | Waste Water | PUMP 1 RUN | EVENT | 751 S Manatawna St (Belfry & Steeple) |
| PS_BELD | Waste Water | PUMP 2 RUN | EVENT | 752 S Manatawna St (Belfry & Steeple) |
| PS_BELD | Waste Water | WET WELL LEVEL | LEVEL | 753 S Manatawna St (Belfry & Steeple) |
| PS_BLVD | Storm Water | PUMP 1 RUN | EVENT | 4251 N Broad St (Broad & Roosevelt Blvd) |
| PS_BLVD | Storm Water | PUMP 2 RUN | EVENT | 4252 N Broad St (Broad & Roosevelt Blvd) |
| PS_BLVD | Storm Water | PUMP 3 RUN | EVENT | 4253 N Broad St (Broad & Roosevelt Blvd) |
| PS_BLVD | Storm Water | PUMP 4 RUN | EVENT | 4254 N Broad St (Broad & Roosevelt Blvd) |
| PS_BLVD | Storm Water | WET WELL LEVEL | LEVEL | 4255 N Broad St (Broad & Roosevelt Blvd) |
| PS_CSPS | Waste Water | N GATE POSITION | POSITION | 600 University Ave (34th St Bridge & University) |
| PS_CSPS | Waste Water | N SIPHON LEVEL | LEVEL | 601 University Ave (34th St Bridge & University) |

| Monitor ID | Type of Pumping Station | Measurement Name | Measurement Type | Address |
|---|---|---|---|---|
| PS_CSPS | Waste Water | N SIPHON LEVEL | LEVEL | 602 University Ave (34th St Bridge & University) |
| PS_CSPS | Waste Water | N WET WELL LEVEL | LEVEL | 603 University Ave (34th St Bridge & University) |
| PS_CSPS | Waste Water | PUMP 1 RUN | EVENT | 604 University Ave (34th St Bridge & University) |
| PS_CSPS | Waste Water | PUMP 2 RUN | EVENT | 605 University Ave (34th St Bridge & University) |
| PS_CSPS | Waste Water | PUMP 3 RUN | EVENT | 606 University Ave (34th St Bridge & University) |
| PS_CSPS | Waste Water | PUMP 4 RUN | EVENT | 607 University Ave (34th St Bridge & University) |
| PS_CSPS | Waste Water | PUMP 5 RUN | EVENT | 608 University Ave (34th St Bridge & University) |
| PS_CSPS | Waste Water | PUMP 6 RUN | EVENT | 609 University Ave (34th St Bridge & University) |
| PS_CSPS | Waste Water | S GATE POSITION | POSITION | 610 University Ave (34th St Bridge & University) |
| PS_CSPS | Waste Water | S WET WELL LEVEL | LEVEL | 611 University Ave (34th St Bridge & University) |
| PS_FORD | Waste Water | PUMP 1 RUN | EVENT | 3800 Ford Rd (Across from West Park Hospital) |
| PS_FORD | Waste Water | PUMP 2 RUN | EVENT | 3801 Ford Rd (Across from West Park Hospital) |
| PS_FORD | Waste Water | WET WELL LEVEL | LEVEL | 3802 Ford Rd (Across from West Park Hospital) |
| PS_HOGI | Waste Water | PUMP 1 RUN | EVENT | 3 Hog Island Rd (east of Airport control tower) |
| PS_HOGI | Waste Water | PUMP 2 RUN | EVENT | 4 Hog Island Rd (east of Airport control tower) |
| PS_HOGI | Waste Water | WET WELL LEVEL | LEVEL | 5 Hog Island Rd (east of Airport control tower) |
| PS_LIND | Waste Water | PUMP 1 RUN | EVENT | 5200 Linden Ave (Linden & Milnor) |
| PS_LIND | Waste Water | PUMP 2 RUN | EVENT | 5201 Linden Ave (Linden & Milnor) |
| PS_LIND | Waste Water | WET WELL LEVEL | LEVEL | 5202 Linden Ave (Linden & Milnor) |
| PS_LOCK | Waste Water | PUMP 1 RUN | EVENT | 10778 Lockart Rd (Lockart St & Locart Ln) |
| PS_LOCK | Waste Water | PUMP 2 RUN | EVENT | 10779 Lockart Rd (Lockart St & Locart Ln) |

| Monitor ID | Type of Pumping Station | Measurement Name | Measurement Type | Address |
|---|---|---|---|---|
| PS_LOCK | Waste Water | WET WELL LEVEL | LEVEL | 10780 Lockart Rd (Lockart St & Locart Ln) |
| PS_LOCK | Waste Water | INLET MANHOLE LEVEL | LEVEL | 10780 Lockart Rd (Lockart St & Locart Ln) |
| PS_MILN | Waste Water | PUMP 1 RUN | EVENT | 9647 Milnor St (between Grant Ave & Eden St) |
| PS_MILN | Waste Water | PUMP 2 RUN | EVENT | 9648 Milnor St (between Grant Ave & Eden St) |
| PS_MILN | Waste Water | PUMP 3 RUN | EVENT | 9649 Milnor St (between Grant Ave & Eden St) |
| PS_MILN | Waste Water | WET WELL LEVEL | LEVEL | 9650 Milnor St (between Grant Ave & Eden St) |
| PS_MING | Storm Water | BASIN LEVEL | LEVEL | 7000 Penrose Ave (Schuylkill River under Platt Bridge) |
| PS_MING | Storm Water | PUMP 1 RUN | EVENT | 7001 Penrose Ave (Schuylkill River under Platt Bridge) |
| PS_MING | Storm Water | PUMP 2 RUN | EVENT | 7002 Penrose Ave (Schuylkill River under Platt Bridge) |
| PS_MING | Storm Water | PUMP 3 RUN | EVENT | 7003 Penrose Ave (Schuylkill River under Platt Bridge) |
| PS_MING | Storm Water | PUMP 4 RUN | EVENT | 7004 Penrose Ave (Schuylkill River under Platt Bridge) |
| PS_MING | Storm Water | PUMP 5 RUN | EVENT | 7005 Penrose Ave (Schuylkill River under Platt Bridge) |
| PS_MING | Storm Water | PUMP 6 RUN | EVENT | 7006 Penrose Ave (Schuylkill River under Platt Bridge) |
| PS_NEIL | Waste Water | PUMP 1 RUN | EVENT | 4000 Neill Dr (Neill Dr & Falls Rd) |
| PS_NEIL | Waste Water | PUMP 2 RUN | EVENT | 4001 Neill Dr (Neill Dr & Falls Rd) |
| PS_NEIL | Waste Water | PUMP 3 RUN | EVENT | 4002 Neill Dr (Neill Dr & Falls Rd) |
| PS_NEIL | Waste Water | PUMP 1 FLOW | FLOW | 4000 Neill Dr (Neill Dr & Falls Rd) |
| PS_NEIL | Waste Water | PUMP 2 FLOW | FLOW | 4001 Neill Dr (Neill Dr & Falls Rd) |
| PS_NEIL | Waste Water | PUMP 3 FLOW | FLOW | 4002 Neill Dr (Neill Dr & Falls Rd) |
| PS_NEIL | Waste Water | WET WELL LEVEL | LEVEL | 4003 Neill Dr (Neill Dr & Falls Rd) |
| PS_P603 | Waste Water | PUMP 1 RUN | EVENT | 2000 Langley Ave (PNBC) |
| PS_P603 | Waste Water | PUMP 2 RUN | EVENT | 2001 Langley Ave (PNBC) |
| PS_P603 | Waste Water | PUMP 3 RUN | EVENT | 2001 Langley Ave (PNBC) |

| Monitor ID | Type of Pumping Station | Measurement Name | Measurement Type | Address |
|---|---|---|---|---|
| PS_P603 | Waste Water | PUMP 4 RUN | EVENT | 2001 Langley Ave (PNBC) |
| PS_P603 | Waste Water | WET WELL LEVEL | LEVEL | 2002 Langley Ave (PNBC) |
| PS_P648 | Waste Water | PUMP 1 RUN | EVENT | PNBC |
| PS_P648 | Waste Water | PUMP 2 RUN | EVENT | PNBC |
| PS_P648 | Waste Water | WET WELL LEVEL | LEVEL | PNBC |
| PS_P796 | Waste Water | PUMP 1 RUN | EVENT | 4801 S 13th St (PNBC) |
| PS_P796 | Waste Water | PUMP 2 RUN | EVENT | 4802 S 13th St (PNBC) |
| PS_P796 | Waste Water | PUMP 3 RUN | EVENT | 4803 S 13th St (PNBC) |
| PS_P796 | Waste Water | WET WELL LEVEL | LEVEL | 4804 S 13th St (PNBC) |
| PS_POLI | Waste Water | PUMP 1 RUN | EVENT | |
| PS_POLI | Waste Water | PUMP 2 RUN | EVENT | |
| PS_POLI | Waste Water | WET WELL LEVEL | LEVEL | |
| PS_RENN | Waste Water | PUMP 1 RUN | EVENT | 11064 Rennard St (Philmont Shopping Center) |
| PS_RENN | Waste Water | PUMP 2 RUN | EVENT | 11065 Rennard St (Philmont Shopping Center) |
| PS_RENN | Waste Water | WET WELL LEVEL | LEVEL | 11066 Rennard St (Philmont Shopping Center) |
| PS_SPLA | Waste Water | PUMP 1 RUN | EVENT | 9021 Buttonwood Pl (Spring Lane Meadows) |
| PS_SPLA | Waste Water | PUMP 2 RUN | EVENT | 9022 Buttonwood Pl (Spring Lane Meadows) |
| PS_SPLA | Waste Water | WET WELL LEVEL | LEVEL | 9023 Buttonwood Pl (Spring Lane Meadows) |

**Table 6 - Listing of all Temporary Flow Monitors Deployed by Projects**

| Site Name | Start | End | Project |
|---|---|---|---|
| S05-000012 | 03/30/11 | Present | CSO |
| S45-001110 | 10/13/11 | Present | CSO Long-term |
| D63-000035 | 10/14/11 | Present | CSO Long-term |
| BC-0055 | 11/30/11 | Present | I&I Long-term |
| IALL-B0355 | 12/12/11 | Present | I&I Long-term |
| C17-003360 | 12/13/11 | Present | CSO Long-term |
| T14-013875 | 01/30/12 | Present | CSO Long-term; SFR Support |
| M005-09-0140 | 09/27/12 | Present | Stormwater Long-term; SFR Support |
| PC-0040 | 01/21/14 | Present | I&I Long-term; SSO Support |
| D45-000015 | 05/08/14 | Present | CSO Long-term |
| UDLL-0045 | 5/29/2014 | Present | CSO Long-term |
| UDLL-0085 | 06/25/14 | Present | CSO Long-term |
| UDLL-0275 | 09/19/14 | Present | CSO Long-term |
| SW WPCP P | 10/10/14 | Present | WPCP |
| SW WPCP Q | 10/10/14 | Present | WPCP |
| SW WPCP R | 10/10/14 | Present | WPCP |
| WLL-0675 | 03/13/15 | Present | I&I Long-term |
| THL-0085 | 04/14/15 | Present | CSO Long-term |
| UDLL-0120 | 07/29/15 | Present | CSO Long-term |
| S051-08-S0015 | 04/28/16 | Present | I&I Long-term; SSO Support |
| S051-08-S0180 | 04/29/16 | Present | I&I Long-term; SSO Support |
| S059-04-S0027 | 05/04/16 | Present | I&I Long-term; SSO Support |
| GSI DST-010-03 | 05/24/17 | Present | GSI Long-term |
| GSI DD RG | 06/23/17 | Present | GSI Long-term |
| S50-011230 | 08/29/17 | Present | CSO Long-term |
| DD DST-010-01 | 11/07/17 | Present | GSI Long-term |
| THL-0045 | 11/23/17 | Present | CSO Long-term |
| CF-DST-4 | 04/27/18 | Present | GSI Long-term |
| T14-000252 | 12/06/18 | Present | CSO |
| T14-000140 | 01/10/19 | Present | CSO |
| T14-000115 | 01/10/19 | Present | CSO Long-term |
| C17-000865 | 03/08/22 | Present | CSO |
| CV-0145 | 05/20/22 | Present | I&I Long-term; SSO Support |

| Site Name | Start | End | Project |
|---|---|---|---|
| S05-000012 | 03/30/11 | Present | CSO |
| CV-0130 | 05/20/22 | Present | I&I SSO Support |
| PC-1065 (MSHX-02) | 06/30/22 | Present | I&I SSO Support |
| S31-000010 | 08/29/22 | Present | CSO |
| S44-000015 | 08/29/22 | Present | CSO |
| S059-02-S0010 | 08/30/22 | Present | I&I SSO Support |
| P083-03-S0050 | 08/30/22 | Present | I&I SSO Support |
| WLL-0565 | 08/31/22 | Present | I&I SSO Support |
| WLL-0650 | 08/31/22 | Present | I&I SSO Support |
| S051-05-S0015 | 09/09/22 | Present | I&I Long-term; SSO Support |
| P108-17-S0010 | 09/21/22 | Present | I&I SSO Support |
| Q120-02-S0010 | 09/23/22 | Present | I&I SSO Support |
| CSE-0030 | 09/29/22 | Present | CSO |
| S20-000015 | 09/30/22 | Present | CSO |
| S20-000070 | 09/30/22 | Present | CSO |
| Q109-07-S0025 | 10/24/22 | Present | I&I SSO Support |
| F03-000055 | 10/25/22 | Present | CSO |
| LSW-0077 | 10/28/22 | Present | CSO |
| T089-04-S0055 | 02/23/23 | Present | I&I SSO Support |
| T089-04-S0095 | 02/23/23 | Present | I&I SSO Support |
| T089-04-S0165 | 02/23/23 | Present | I&I SSO Support |
| THL-0225 | 03/21/23 | Present | CSO |
| BC-0453 | 08/08/23 | Present | I&I SSO Support |
| BC-B1575 | 08/08/23 | Present | I&I SSO Support |
| T089-04-0015 | 10/30/23 | Present | Stormwater; SFR Support |
| Q109-07-0015 | 10/30/23 | Present | Stormwater; SFR Support |
| P099-02-M0015 | 10/30/23 | Present | Stormwater; SFR Support |
| Q121-02-0017 | 12/12/23 | Present | Stormwater; SFR Support |
| P091-06-0020 | 12/12/23 | Present | Stormwater; SFR Support |
| P091-10-0010 | 12/27/23 | Present | Stormwater; SFR Support |
| S059-01-0025 | 01/05/24 | Present | Stormwater |
| S051-08-0010 | 01/05/24 | 07/23/24 | Stormwater |
| Q120-11-0015 | 01/23/24 | 07/16/24 | Stormwater |
| W086-06-0010 | 01/12/24 | Present | Stormwater |
| W086-01-0015 | 07/29/24 | Present | Stormwater |

| Site Name | Start | End | Project |
|---|---|---|---|
| S05-000012 | 03/30/11 | Present | CSO |
| Q117-02-0010 | 07/29/24 | Present | Stormwater |
| PR-0150 | 11/19/24 | Present | I&I SSO Support |
| PR-B0405 | 11/19/24 | Present | I&I SSO Support |
| PR-0310 | 11/19/24 | Present | I&I SSO Support |
| ML2 | 02/21/25 | Present | Standardized Metering |
| ML9 | 02/28/25 | Present | Standardized Metering |
| MS-01 | 04/07/25 | Present | Standardized Metering |
| MS-04 | 04/07/25 | Present | Standardized Metering |
| MS-05 | 04/07/25 | Present | Standardized Metering |
| MS-07 | 04/07/25 | Present | Standardized Metering |
| MS-08 | 04/07/25 | Present | Standardized Metering |
| MA-1 | 04/09/25 | Present | Standardized Metering |
| MA-4 | 04/09/25 | Present | Standardized Metering |
| MLM-04 | 04/09/25 | Present | Standardized Metering |
| MLM-05 | 04/09/25 | Present | Standardized Metering |
| MSHX-01 | 04/09/25 | Present | Standardized Metering |
| MLM-07 | 04/11/25 | Present | Standardized Metering |

**Table 7 - Listing of Outlying Community Contract Limits**

| Township | Connection Points | Annual Average Daily Flow Limit (MGD) | Maximum Daily Flow Limit (MGD) | Sustained Peak Flow Limit (MGD) |
|---|---|---|---|---|
| Abington | MA-1 through MA-4 | 2.97 | 4.45 | 6.17 |
| Bucks County | MB-1 | 24 | 33 | 48 |
| Bensalem | MBE-1 through MBE-17 | None | 6.13 | 7.59 |
| Cheltenham | MC-1 | None | None | 1.78 |
| Cheltenham | MC-2 | None | None | 3.55 |
| Cheltenham | MCx-1 through MCx-7 | None | None | 5.17 |
| Delaware Co. | MD-1 | 50 | 75 | 100 |
| Lower Merion | ML-1 through ML-8 | 14.5 | None | 20.4 |
| Lower Moreland | MLM-1,3,4,5,6,7 | 0.7 | 1.05 | 1.4 |
| Lower Moreland | MLM-2 | 1.2 | 1.8 | 2.4 |
| Lower Moreland | MLM-1 through MLM-7 | 1.9 | 2.85 | 3.8 |
| Springfield- Erdenheim | MS-1, 2 ,3, 8 | 3.2 | None | 4.3 |
| Springfield- Wyndmoor | MS-4, 5, 6, 7 | 1 | None | 1.25 |
| Southampton | MSH-1 and MSH-2 | 7.14 | 9.28 | 10.21 |
| Upper Darby | MUD-1 (N,S, and Overflow) | 17 | None | 22.62 |

# Appendix C – FY25 CSO Program Maintenance Annual Report

# FLOW CONTROL UNIT

## FY2025 ANNUAL REPORT

Submitted By:
Michael D. Hengstler
Water Conveyance System Superintendent
PWD-Flow Control

**FLOW CONTROL UNIT-FY25**
**OPERATION and MAINTENANCE**

The Collector System Flow Control Unit has four main areas of responsibility: Combined Sewer Overflow (CSO) Regulator Maintenance, Pumping Station Operation & Maintenance, Collector System Instrumentation, and CCTV Technical Inspections. The main office of the Wastewater Pumping Group is located at 5202 Pennypack Street in the Torresdale Raw Water Pumping Station. This facility includes a maintenance machine shop, storage garage, and workshop for maintenance assignments. The other three groups have maintenance shops and assemble at the 3257 Fox Street Headquarters Facility. The unit has experienced staff shortages, which have impacted some of the work. Despite these challenges, critical infrastructure is being managed to ensure that services continue without major failures or downtime.

## CSO REGULATOR MAINTENANCE GROUP

The Philadelphia Water Department's Flow Control CSO Maintenance Group is responsible for inspecting and servicing the combined sewer overflow regulating and diversion chambers. There are nineteen personnel responsible for maintaining, inspecting, and cleaning 175 combined sewer-regulating chambers, 89 tide gate chambers, 26 storm relief chambers, 12 sanitary flow diversions, as well as several siphons and other related wastewater control devices throughout the collection system. The Flow Control Unit maintains ten types of CSO regulators and storage systems.

- Brown & Brown (B&B) mechanical
- Computer-Controlled Sluice Gates
- Computer-Controlled B&B Shutter Gates
- Static Dams
- Slot type regulators
- Mechanical Sluice Gates
- Side Overflow Weirs
- Inflatable Rubber Dam
- Water Hydraulic Sluice Gates
- Computer-Controlled Crest Gates

Regulators and tide gates can have mechanical or operational issues, leading to discharges during dry weather and increased stream and river inflow. These events can significantly impact the performance of wastewater and freshwater treatment plants, as well as the quality of stream water. They can also affect the recreational use of local waterways. Therefore, the combined sewer regulator systems are closely monitored for potential blockages, and any problems are promptly corrected once identified. The main responsibilities of this group include inspecting CSO chambers and clearing any regulator blockages before they cause a dry weather discharge, which are key areas in assessing the group's overall performance.

Tracking and analyzing Dry Weather Discharges continuously helps us identify whether new or modified maintenance procedures could help prevent them from occurring. Even though our established procedures have significantly reduced the number and duration of these discharges, the combined system picks up various trash and debris, leading to unpredictable flow disruptions. Despite best management practices such as trapping and cleaning all inlets, preventative maintenance schedules for sewer flushing, cleaning regulators, and CCTV inspection of DWO pipes, it is nearly impossible to eliminate all blockages before they occur.

In order to effectively manage and reduce dry weather overflows, the PWD Flow Control Unit utilizes advanced technology-based controls, including the Collector System Remote Monitoring Network. This network currently encompasses over 320 sites and has over 720 individual level and flow measurements. Training CSO maintenance personnel in the use of the system's computer programs for analyzing trend data has resulted in a thorough understanding of individual CSO sites and their flow patterns. This enables them to quickly identify abnormal conditions and take action before these conditions lead to blockages or discharges during dry weather.

In the fiscal year 2025, the CSO Maintenance Group performed 3881 inspections of regulating chambers. These inspections included regular visual checks of equipment and flow

patterns to verify their proper functioning. Additionally, more extensive maintenance work, such as cleaning and lubricating mechanical equipment, was planned for periods of lower flow between rain events.

During FY25, the crews cleared 145 regulator blockages before they developed into a CSO dry weather discharge. There was 1 CSO dry weather discharge for this year, which was promptly stopped within 1 hour of discovery.

We've seen a significant increase in blockages caused by high volumes of disposable wipes. These blockages, which can occur in the CSO regulator diversion or the dry weather outlet pipe, are hard to predict. To prevent them, it's crucial to conduct frequent inspections and closely monitor trend data. After moderate to heavy rain events, the CSO regulators can get clogged with debris such as grit, sticks, and rags. To address this, our maintenance crews perform quick inspections of the CSO sites throughout the city following these events to remove storm debris. After a few days, the work schedule returns to more comprehensive maintenance tasks like cleaning, lubricating, adjusting equipment, and making minor repairs to the mechanical regulators.

The CSO Regulator Group, with the help of Sewer maintenance and Mobile Dredging Vactoring Services, cleaned and removed approximately 24.41 tons of debris and grit from the D-25 regulating chamber, and 100.08 tons of debris and grit from the D-45 regulating chamber.

The CSO Regulator Group responded to numerous requests to check and close tide gates on the Southeast Water Treatment Plant’s Sewer districts and the Northeast Water Treatment Plant’s Sewer districts after rain events.

## WASTEWATER PUMPING STATION MAINTENANCE GROUP

The Wastewater Pumping Station Maintenance Group, consisting of 35 maintenance personnel, is located at the 5202 Pennypack Street Maintenance Shop. They are responsible for the operation and maintenance of 17 wastewater pumping stations, 3 stormwater pumping stations, 2 sodium hypochlorite dosing stations, 11 computer-controlled Combined Sewer Overflow (CSO) storage regulators, and several in-line and offline wastewater storage facilities, among other duties.

Many of the pumping stations are equipped with only one operational pump and one reserve pump. This arrangement necessitates immediate responses to pump breakdowns and requires overhauls to be completed in a minimal amount of time. The main pump availability statistic serves as a good indicator of the Maintenance Group's performance in this area; during FY25, the main pumping units were in service 98.33% of the time. The group completed 11 main wastewater pump overhauls at the stations. These overhauls involved the repair and replacement of worn pump and motor components to restore the equipment's performance to like-new operating conditions.

During FY25, the Wastewater Pumping Station Maintenance Group had only one main pump out of service due to failures or breakdowns. To minimize downtime, when maintenance and overhauls are performed, the in-service pump is rotated out and replaced by the spare pump for that station. This ensures that each station always has its full complement of pumps available while also utilizing the spare pump.

In addition to maintaining pumping stations, the group oversees a variety of equipment throughout the Collector System. They manage the operation and maintenance of the two sodium hypochlorite dosing stations. One station is located next to the Queen Lane Raw Water pumping station, which injects sodium hypochlorite into the Upper Schuylkill East Interceptor, while the other is at the Totem Road pumping station, injecting sodium

hypochlorite into the Bucks County force main. The group is responsible for maintaining an adequate supply of sodium hypochlorite—approximately 407,989 gallons in FY25—for monitoring downstream hydrogen sulfide levels and adjusting dosage levels, in addition to the maintenance and repair of the equipment.

The group also fabricates and repairs bar screens, debris grills, and other equipment for the Collector System, and they conduct major maintenance on the CSO mechanical regulators, which includes installing tide gates, overflow gates, and servicing Brown & Brown regulators.

Additionally, the group installs flow diversions in the sewer system. While performing repairs and maintenance at the Southeast Water Treatment Plant, the crew installed diversions to limit flow to the plant and redirect it to other treatment facilities.

There are currently three betterment projects ongoing at the pumping stations: the Mingo Creek Stormwater Pumping Station, the Ford Road Pump Station, and the Linden Avenue Pump Station.

## COLLECTOR SYSTEM INSTRUMENTATION

## MAINTENANCE GROUP

The fourteen Instrument and Electronic Technicians located at the Fox Street facility are primarily responsible for installing, calibrating, and maintaining the electronic and instrumentation equipment in the Collector System monitoring and control network. They also repair, calibrate, and certify the hazardous gas detection meters for the Department as well as install temporary flow and level monitors for various units in the Water Department.

One of the primary responsibilities of the CS Instrumentation Group is to maintain the network of level sensors, flow meters, and rain gauges and keep them up and running with a minimum of downtime while maintaining accurate and reliable data. The network currently consists of 258 level and flow monitoring locations in the NE, SE, and SW Drainage Districts, 35 gauges in the citywide rain gauge network, 56 Township flow-metering stations, and several additional monitors at various control sites. It is crucial that the remote site equipment communicates and downloads data to the server so that the information is available for trend chart viewing and analysis for the users. The CSO maintenance group relies heavily on these charts to monitor the performance of all the CSO regulators while paying special attention to the sites that have had a recent or a history of discharges. The monitoring data is used for a wide variety of other purposes such as calibrating the Collector System's hydraulic model, generating township sewage flows for billing and for various Planning and Engineering studies.

The CS Instrumentation Maintenance group performed 2270 maintenance inspections in FY25. The data collection system used by Flow Control are TELOG units.

## CCTV TECHNICAL INSPECTIONS GROUP

The CCTV Technical Inspections group consists of one Supervisor, two group leaders, and sixteen technicians who operate and maintain the seven closed-circuit TV camera trucks and Green Storm Infrastructure inspection cameras. The seven CCTV trucks and CCTV Contractor completed 2258 inspections and logged 57.95 miles of sewer inspections in FY25. The CCTV GSI Unit and the GSO Contractor completed 2600 inspections, logging 25.95 miles. These inspections consisted of Post Construction Inspections and Maintenance Inspections. A breakdown of the types of inspections completed and mileage for the types of inspections is located on the Sewer Assessment Program CCTV Sewer Inspection Report.

The CCTV group has several primary functions which include inspections of sewers turned in for sewer complaints, special inspection requests from the Water/ Sewer Design group and the post construction inspection program which involves videoing the sewer at the completion of all sewer construction work. Another function of the group is to work with the Defective Connection Program group and the Collector System Engineering group to identify the defective lateral connections. An ongoing project is identifying possible cross-connections in the MCX-2 sewer shed.

## SERVICE LEVEL GOALS

The goal of the Flow Control Unit is to maintain and exceed the service level goals. One area that directly affects the service level of the Flow Control Unit is personnel vacancies.

| MONTH | Main Pump Availability | CSO Dry Weather Discharges/100 Inspections | CCTV Inspections in Miles | %Metering Chambers Operational | %CSO Level Meters Operational |
|---|---|---|---|---|---|
| GOAL | 95% or Higher | 0 | 2.8 | 95% or Higher | 90% or Higher |
| Jul-24 | 98.0% | 0.00 | 3.36 | 94.2% | 92.7% |
| Aug-24 | 98.0% | 0.00 | 2.82 | 97.4% | 94.4% |
| Sep-24 | 98.0% | 0.00 | 4.41 | 95.5% | 95.4% |
| Oct-24 | 100.0% | 0.00 | 8.30 | 96.6% | 95.2% |
| Nov-24 | 100.0% | 0.00 | 5.52 | 97.4% | 94.0% |
| Dec-24 | 98.0% | 0.00 | 5.77 | 95.5% | 96.8% |
| Jan-25 | 98.0% | 0.00 | 10.39 | 97.4% | 95.0% |
| Feb-25 | 98.0% | 0.00 | 8.61 | 96.3% | 97.4% |
| Mar-25 | 98.0% | 0.00 | 11.14 | 95.7% | 95.5% |
| Apr-25 | 98.0% | 0.00 | 9.39 | 95.1% | 96.6% |
| May-25 | 98.0% | 0.27 | 9.17 | 96.5% | 96.3% |
| Jun-25 | 98.0% | 0.00 | 5.04 | 95.6% | 95.0% |
| | AVE | AVE | TOTAL | AVE | AVE |
| FY25 | 98.33% | 0.02 | 83.9 | 96.10% | 95.36% |

## FLOW CONTROL PERSONNEL SUMMARY

The Flow Control Unit is working hard to fill all 99 approved positions to meet service-level goals. Currently, the unit has a 19.2% vacancy rate, with most of the vacancies in the Electronics and Mechanical fields. For the FY25 year, the unit has requested 2 new positions: one for an Electronic Technician and one for a Heavy Equipment Operator 2.

| 99 Flow Control Positions | Active | Vacant | Total |
|---|---|---|---|
| Clerk III | 2 | 0 | 2 |
| Custodial Worker | 1 | 0 | 1 |
| Data Services Support Clerk | 1 | 0 | 1 |
| Electrician 1 | 1 | 0 | 1 |
| Electrician 2 | 2 | 0 | 2 |
| Electronic Equipment Supervisor | 2 | 0 | 2 |
| Electronic Technician 1 | 3 | 2 | 5 |
| Electronic Technician 2 | 16 | 1 | 17 |
| Electronic Technician Grp. Leader | 5 | 0 | 5 |
| Electronic Technician Trainee | 7 | 4 | 11 |
| Ind. Process Mach. Mech. Grp. Leader | 2 | 0 | 2 |
| Industrial Electrician 1 | 2 | 0 | 2 |
| Industrial Electrician 2 | 1 | 0 | 1 |
| Industrial Electrician Group Leader | 1 | 0 | 1 |
| Industrial Process Mach. Mech. | 6 | 3 | 9 |
| Interceptor Service Worker I | 2 | 1 | 3 |
| Interceptor Service Worker II | 5 | 1 | 6 |
| Interceptor Services Supervisor | 2 | 0 | 2 |
| Mach. & Equipment Mech.1 | 2 | 4 | 6 |
| Office Clerk 2 | 1 | 0 | 1 |
| Public Works Trainee | 2 | 0 | 2 |
| Sewer Maintenance Inspector | 2 | 0 | 2 |
| Trades Helper (P) | 1 | 0 | 1 |
| Water Conveyance Sys. Asst. Supt. (P) | 2 | 0 | 2 |
| Water Conveyance Sys. Supt. | 1 | 0 | 1 |
| Water Operations Repair Helper | 8 | 2 | 10 |
| Heavy Equipment Op. 2 | 0 | 1 | 1 |
| **Totals** | **80** | **19** | 99 |

# FLOW CONTROL FY25 ANNUAL REPORT

# SPREADSHEETS

**PART 1**
**DRY WEATHER STATUS**
**REPORT**

**PHILADELPHIA WATER DEPARTMENT**
**WASTE AND STORM WATER COLLECTION**
**FLOW CONTROL UNIT**

**Section 1**

**July 2024 - June 2025**

| COLLECTOR | Jul-24 | Aug-24 | Sep-24 | Oct-24 | Nov-24 | Dec-24 | Jan-25 | Feb-25 | Mar-25 | Apr-25 | May-25 | Jun-25 | Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **UPPER PENNYPACK - 5 UNITS** | | | | | | | | | | | | | |
| INSPECTIONS | 13 | 9 | 8 | 10 | 2 | 18 | 9 | 16 | 15 | 7 | 11 | 22 | 140 |
| DISCHARGES | | | | | | | | | | | | | |
| BLOCKS CLEARED | | 1 | | | | | | | 1 | | 1 | | 3 |
| **UPPER DELAWARE LOW LEVEL - 12 UNITS** | | | | | | | | | | | | | |
| INSPECTIONS | 37 | 34 | 23 | 30 | 21 | 14 | 43 | 27 | 33 | 31 | 33 | 31 | 357 |
| DISCHARGES | | | | | | | | | | | | | |
| BLOCKS CLEARED | 3 | 3 | 1 | | | | | | | 1 | 1 | 3 | 12 |
| **LOWER FRANKFORD CREEK - 6 UNITS** | | | | | | | | | | | | | |
| INSPECTIONS | 12 | 14 | 6 | 12 | 8 | 12 | 13 | 14 | 18 | 22 | 2 | 11 | 144 |
| DISCHARGES | | | | | | | | | | | | | |
| BLOCKS CLEARED | | | | | | | | | 3 | | 1 | 3 | 7 |
| **LOWER FRANKFORD LOW LEVEL - 10 UNITS** | | | | | | | | | | | | | |
| INSPECTIONS | 20 | 32 | 15 | 26 | 11 | 17 | 27 | 23 | 31 | 37 | 15 | 20 | 274 |
| DISCHARGES | | | | | | | | | | | | | |
| BLOCKS CLEARED | | 2 | 1 | 1 | 1 | | | 1 | 3 | | | | 9 |
| **FRANKFORD HIGH LEVEL - 14 UNITS** | | | | | | | | | | | | | |
| INSPECTIONS | 32 | 24 | 25 | 26 | 5 | 38 | 32 | 41 | 41 | 42 | 40 | 29 | 375 |
| DISCHARGES | | | | | | | | | | | | | |
| BLOCKS CLEARED | 1 | 2 | | | | | | 2 | 1 | 1 | 1 | | 8 |
| **SOMERSET - 9 UNITS** | | | | | | | | | | | | | |
| INSPECTIONS | 18 | 16 | 15 | 17 | 9 | 8 | 22 | 9 | 31 | 9 | 19 | 17 | 190 |
| DISCHARGES | | | | | | | | | | | | | |
| BLOCKS CLEARED | 2 | | 2 | | | 1 | | | | 1 | | | 6 |
| **LOWER DELAWARE LOW LEVEL - 33 UNITS** | | | | | | | | | | | | | |
| INSPECTIONS | 77 | 67 | 64 | 52 | 43 | 83 | 63 | 33 | 54 | 52 | 46 | 68 | 702 |
| DISCHARGES | | | | | | | | | | | | | |
| BLOCKS CLEARED | 8 | 6 | 8 | 4 | 9 | 6 | 6 | 2 | 1 | | 1 | 3 | 54 |
| **CENTRAL SCHUYLKILL EAST - 18 UNITS** | | | | | | | | | | | | | |
| INSPECTIONS | 25 | 34 | 9 | 29 | 24 | 28 | 16 | 20 | 27 | 44 | 49 | 34 | 339 |
| DISCHARGES | | | | | | | | | | | | | |
| BLOCKS CLEARED | 2 | 1 | 2 | 1 | | | | 2 | | 3 | | | 11 |
| **LOWER SCHUYLKILL EAST - 9 UNITS** | | | | | | | | | | | | | |
| INSPECTIONS | 25 | 15 | 9 | 12 | 9 | 16 | 12 | 7 | 10 | 14 | 8 | 19 | 156 |
| DISCHARGES | | | | | | | | | | | | | |
| BLOCKS CLEARED | 2 | 1 | | | 1 | | | | | | | | 4 |
| **CENTRAL SCHUYLKILL WEST - 9 UNITS** | | | | | | | | | | | | | |
| INSPECTIONS | 10 | 13 | 4 | 11 | 9 | 9 | 5 | 13 | 13 | 18 | 25 | 15 | 145 |
| DISCHARGES | | | | | | | | | | | | | |
| BLOCKS CLEARED | 1 | | | 1 | | | | | | | | | 2 |
| **SOUTHWEST MAIN GRAVITY - 10 UNITS** | | | | | | | | | | | | | |
| INSPECTIONS | 26 | 18 | 13 | 13 | 9 | 12 | 10 | 9 | 14 | 8 | 20 | 13 | 165 |
| DISCHARGES | | | | | | | | | | | | | |
| BLOCKS CLEARED | | | | 2 | 2 | | 1 | 1 | 4 | 1 | | | 11 |
| **LOWER SCHUYLKILL WEST - 4 UNITS** | | | | | | | | | | | | | |
| INSPECTIONS | 7 | 6 | 5 | 7 | 3 | 6 | 4 | 4 | 5 | 4 | 7 | 5 | 63 |
| DISCHARGES | | | | | | | | | | | | | |
| BLOCKS CLEARED | | | 1 | | | | | | | | | | 1 |
| **COBBS CREEK HIGH LEVEL - 24 UNITS** | | | | | | | | | | | | | |
| INSPECTIONS | 28 | 28 | 24 | 24 | 16 | 2 | 28 | 10 | 32 | 49 | 30 | 58 | 329 |
| DISCHARGES | | | | | | | | | | | | | |
| BLOCKS CLEARED | | | 2 | 3 | 1 | | 1 | | | | 1 | 1 | 9 |
| **COBBS CREEK LOW LEVEL - 13 UNITS** | | | | | | | | | | | | | |
| INSPECTIONS | 12 | 12 | 12 | 12 | 1 | 5 | 12 | 5 | 9 | 21 | 40 | 29 | 170 |
| DISCHARGES | | | | | | | | | | | 1 | | 1 |
| BLOCKS CLEARED | | 2 | | 1 | | | | | | | 2 | | 5 |
| **RELIEF SEWERS - 26 UNITS** | | | | | | | | | | | | | |
| INSPECTIONS | 24 | 23 | 25 | 32 | 18 | 20 | 35 | 20 | 34 | 28 | 30 | 43 | 332 |
| DISCHARGES | | | | | | | | | | | | | |
| BLOCKS CLEARED | | | 2 | 1 | | | | | | | | | 3 |
| **TOTALS / MONTH for 201 REGULATOR UNITS** | | | | | | | | | | | | | **Totals** |
| TOTAL INSPECTIONS | 366 | 345 | 257 | 313 | 188 | 288 | 331 | 251 | 367 | 386 | 375 | 414 | 3881 |
| TOTAL DISCHARGES | | | | | | | | | | | 1 | | 1 |
| TOTAL BLOCKS CLEARED | 19 | 18 | 19 | 14 | 14 | 7 | 8 | 8 | 13 | 7 | 8 | 10 | 145 |
| AVER. # of INSP. / BLOCKS CLEARED | 19 | 19 | 14 | 22 | 13 | 41 | 41 | 31 | 28 | 55 | 47 | 41 | 31 |
| DISC / 100 INSPECTIONS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.00 | 0.03 |

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for Knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

**PART 1**
**DRY WEATHER STATUS**
**REPORT**

**PRECIPITATION FOR THE PERIOD: July 2024 - June 2025**

**Section 2**

| Date | Rain Inches | Date | Rain Inches | Date | Rain Inches | Date | Rain Inches | Date | Rain Inches | Date | Rain Inches | Date | Rain Inches | Date | Rain Inches | Date | Rain Inches | Date | Rain Inches | Date | Rain Inches | Date | Rain Inches |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-Jul | | 1-Aug | | 1-Sep | **0.01** | 1-Oct | | 1-Nov | **0.48** | 1-Dec | | 1-Jan | **0.01** | 1-Feb | **0.02** | 1-Mar | | 1-Apr | **0.22** | 1-May | | 1-Jun | |
| 2-Jul | | 2-Aug | **0.82** | 2-Sep | | 2-Oct | | 2-Nov | | 2-Dec | | 2-Jan | | 2-Feb | **0.01** | 2-Mar | | 2-Apr | | 2-May | | 2-Jun | **0.49** |
| 3-Jul | | 3-Aug | **0.67** | 3-Sep | | 3-Oct | | 3-Nov | | 3-Dec | | 3-Jan | | 3-Feb | | 3-Mar | | 3-Apr | **0.03** | 3-May | **0.61** | 3-Jun | |
| 4-Jul | | 4-Aug | **0.16** | 4-Sep | | 4-Oct | | 4-Nov | | 4-Dec | **0.01** | 4-Jan | | 4-Feb | | 4-Mar | | 4-Apr | **0.50** | 4-May | **0.11** | 4-Jun | |
| 5-Jul | | 5-Aug | | 5-Sep | | 5-Oct | | 5-Nov | | 5-Dec | **0.04** | 5-Jan | | 5-Feb | | 5-Mar | **1.34** | 5-Apr | **0.03** | 5-May | **0.02** | 5-Jun | |
| 6-Jul | | 6-Aug | **1.62** | 6-Sep | | 6-Oct | | 6-Nov | | 6-Dec | | 6-Jan | **0.03** | 6-Feb | **0.29** | 6-Mar | **0.01** | 6-Apr | **0.02** | 6-May | **0.11** | 6-Jun | **0.06** |
| 7-Jul | **0.23** | 7-Aug | **0.29** | 7-Sep | **0.22** | 7-Oct | | 7-Nov | | 7-Dec | | 7-Jan | **0.06** | 7-Feb | **0.01** | 7-Mar | | 7-Apr | **0.15** | 7-May | | 7-Jun | **0.30** |
| 8-Jul | | 8-Aug | **1.56** | 8-Sep | | 8-Oct | | 8-Nov | | 8-Dec | | 8-Jan | | 8-Feb | **0.22** | 8-Mar | | 8-Apr | | 8-May | | 8-Jun | **0.04** |
| 9-Jul | | 9-Aug | **0.49** | 9-Sep | | 9-Oct | | 9-Nov | | 9-Dec | **0.05** | 9-Jan | | 9-Feb | **0.21** | 9-Mar | | 9-Apr | | 9-May | **0.15** | 9-Jun | **0.03** |
| 10-Jul | | 10-Aug | | 10-Sep | | 10-Oct | | 10-Nov | **0.13** | 10-Dec | **0.15** | 10-Jan | **1.12** | 10-Feb | | 10-Mar | | 10-Apr | | 10-May | | 10-Jun | **0.45** |
| 11-Jul | **0.40** | 11-Aug | | 11-Sep | | 11-Oct | | 11-Nov | **0.13** | 11-Dec | **0.79** | 11-Jan | **0.01** | 11-Feb | | 11-Mar | | 11-Apr | **1.01** | 11-May | | 11-Jun | |
| 12-Jul | **0.15** | 12-Aug | | 12-Sep | | 12-Oct | | 12-Nov | | 12-Dec | | 12-Jan | **0.01** | 12-Feb | **0.32** | 12-Mar | **0.56** | 12-Apr | **0.22** | 12-May | | 12-Jun | |
| 13-Jul | **0.01** | 13-Aug | | 13-Sep | | 13-Oct | | 13-Nov | | 13-Dec | | 13-Jan | | 13-Feb | **0.10** | 13-Mar | | 13-Apr | | 13-May | **0.40** | 13-Jun | |
| 14-Jul | **0.29** | 14-Aug | | 14-Sep | | 14-Oct | | 14-Nov | | 14-Dec | | 14-Jan | | 14-Feb | | 14-Mar | | 14-Apr | | 14-May | **1.49** | 14-Jun | **0.20** |
| 15-Jul | | 15-Aug | | 15-Sep | | 15-Oct | | 15-Nov | | 15-Dec | **0.15** | 15-Jan | | 15-Feb | **0.33** | 15-Mar | | 15-Apr | | 15-May | **0.30** | 15-Jun | **0.74** |
| 16-Jul | **0.41** | 16-Aug | | 16-Sep | | 16-Oct | | 16-Nov | | 16-Dec | **0.70** | 16-Jan | | 16-Feb | **0.56** | 16-Mar | **0.31** | 16-Apr | | 16-May | **0.85** | 16-Jun | **0.01** |
| 17-Jul | **0.33** | 17-Aug | **0.04** | 17-Sep | | 17-Oct | | 17-Nov | | 17-Dec | **0.04** | 17-Jan | **0.03** | 17-Feb | | 17-Mar | **0.92** | 17-Apr | | 17-May | **0.02** | 17-Jun | |
| 18-Jul | | 18-Aug | **0.41** | 18-Sep | **0.02** | 18-Oct | | 18-Nov | | 18-Dec | **0.16** | 18-Jan | **0.05** | 18-Feb | | 18-Mar | | 18-Apr | | 18-May | | 18-Jun | **0.19** |
| 19-Jul | | 19-Aug | | 19-Sep | | 19-Oct | | 19-Nov | **0.06** | 19-Dec | **0.01** | 19-Jan | **0.02** | 19-Feb | | 19-Mar | | 19-Apr | | 19-May | | 19-Jun | **0.24** |
| 20-Jul | | 20-Aug | | 20-Sep | | 20-Oct | | 20-Nov | **0.47** | 20-Dec | **0.13** | 20-Jan | **0.01** | 20-Feb | | 20-Mar | **0.60** | 20-Apr | | 20-May | | 20-Jun | |
| 21-Jul | **0.71** | 21-Aug | | 21-Sep | | 21-Oct | | 21-Nov | **0.54** | 21-Dec | **0.06** | 21-Jan | | 21-Feb | | 21-Mar | | 21-Apr | | 21-May | **0.44** | 21-Jun | |
| 22-Jul | **0.03** | 22-Aug | | 22-Sep | | 22-Oct | | 22-Nov | **0.25** | 22-Dec | | 22-Jan | **0.01** | 22-Feb | | 22-Mar | | 22-Apr | | 22-May | **0.38** | 22-Jun | **0.02** |
| 23-Jul | **0.40** | 23-Aug | | 23-Sep | **0.03** | 23-Oct | | 23-Nov | **0.01** | 23-Dec | | 23-Jan | **0.01** | 23-Feb | | 23-Mar | **0.01** | 23-Apr | | 23-May | **0.01** | 23-Jun | |
| 24-Jul | **1.05** | 24-Aug | | 24-Sep | | 24-Oct | | 24-Nov | | 24-Dec | **0.05** | 24-Jan | **0.01** | 24-Feb | | 24-Mar | **0.52** | 24-Apr | | 24-May | **0.01** | 24-Jun | |
| 25-Jul | | 25-Aug | | 25-Sep | **0.06** | 25-Oct | | 25-Nov | | 25-Dec | | 25-Jan | | 25-Feb | **0.48** | 25-Mar | | 25-Apr | | 25-May | | 25-Jun | |
| 26-Jul | | 26-Aug | | 26-Sep | | 26-Oct | | 26-Nov | **0.20** | 26-Dec | | 26-Jan | **0.03** | 26-Feb | | 26-Mar | | 26-Apr | **0.52** | 26-May | | 26-Jun | **0.08** |
| 27-Jul | | 27-Aug | | 27-Sep | **0.12** | 27-Oct | | 27-Nov | | 27-Dec | **0.01** | 27-Jan | **0.02** | 27-Feb | **0.04** | 27-Mar | | 27-Apr | | 27-May | | 27-Jun | **0.01** |
| 28-Jul | | 28-Aug | | 28-Sep | **0.11** | 28-Oct | | 28-Nov | **0.72** | 28-Dec | **0.66** | 28-Jan | | 28-Feb | | 28-Mar | | 28-Apr | | 28-May | **0.63** | 28-Jun | **0.06** |
| 29-Jul | | 29-Aug | | 29-Sep | **0.01** | 29-Oct | | 29-Nov | | 29-Dec | **0.44** | 29-Jan | | | | 29-Mar | | 29-Apr | | 29-May | **0.03** | 29-Jun | |
| 30-Jul | | 30-Aug | **0.37** | 30-Sep | | 30-Oct | | 30-Nov | | 30-Dec | **0.10** | 30-Jan | | | | 30-Mar | | 30-Apr | | 30-May | **0.88** | 30-Jun | |
| 31-Jul | | 31-Aug | | | | 31-Oct | | | | 31-Dec | **0.34** | 31-Jan | **0.41** | | | 31-Mar | **1.55** | | | 31-May | **0.41** | | |

| **Jul-24** | **Aug-24** | **Sep-24** | **Oct-24** | **Nov-24** | **Dec-24** | **Jan-25** | **Feb-25** | **Mar-25** | **Apr-25** | **May-25** | **Jun-25** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Rain** | **Total Rain** | **Total Rain** | **Total Rain** | **Total Rain** | **Total Rain** | **Total Rain** | **Total Rain** | **Total Rain** | **Total Rain** | **Total Rain** | **Total Rain** |
| **4.01** | **6.43** | **0.58** | **0.00** | **2.99** | **3.89** | **1.84** | **2.59** | **5.82** | **2.70** | **6.85** | **2.92** |

**Note: Rain Gauge RG-17 & RG-18 are being used for the Precipitation Report.**

**PART 1**
**DRY WEATHER STATUS REPORT**

**DRY WEATHER DISCHARGES FOR THE PERIOD: July 2024 - June 2025**

**Section 3**

| Discharge Observed | | Discharge Stopped | | Last Inspection | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Date | Time | Date | Time | Site ID | Collector | Type Unit | Location | Comment |
| 07-May-25 | 12:00:00 PM | 07-May-25 | 12:30:00 PM | 05-May-25 | 9:40:00 AM | C-19 | CCLL | SLOT | CEMETERY DWY. & COBBS CREEK PKWY. (SOUTH MT. MORIAH CEMETERY, ~250' E. OF BRIDGE) | Slow Steady Flow, Slot Blockage, No Floatables |

## RELIEF SEWER MONTHLY INSPECTION

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| THOMAS RUN RELIEF SEWER | | | | | | | | | | | | | |
| R01 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 17 |
| R02 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 17 |
| R03 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 17 |
| R04 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 18 |
| R05 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 16 |
| R06 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 15 |
| MAIN RELIEF SEWER | | | | | | | | | | | | | |
| R07 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 15 |
| R08 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 16 |
| R09 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 16 |
| R10 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 16 |
| R11 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 16 |
| R11A | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 16 |
| R12 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 16 |
| WAKLING RELIEF SEWER | | | | | | | | | | | | | |
| R13 | 1 | 1 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 9 |
| R13A | 1 | 1 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | |
| R14 | 1 | 1 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 9 |
| ROCK RUN STORM FLOOD RELIEF SEWER | | | | | | | | | | | | | |
| R15 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 7 |
| OREGON AVE RELIEF SEWER | | | | | | | | | | | | | |
| R16 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 17 |
| R17 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 16 |
| FRANKFORD HIGH LEVEL RELIEF SEWER | | | | | | | | | | | | | |
| R18 | 1 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 8 |
| 32ND ST RELIEF SEWER | | | | | | | | | | | | | |
| R19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MAIN STREET RELIEF SEWER | | | | | | | | | | | | | |
| R20 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 15 |
| SOMERSET SYSTEM DIVERSION CHAMBER | | | | | | | | | | | | | |
| R21 | | | | | | | | | | | | | 0 |
| TEMPORARY REGULATOR CHAMBER | | | | | | | | | | | | | |
| R22 | | | | | | | | | | | | | 0 |
| R23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ARCH ST RELIEF SEWER | | | | | | | | | | | | | |
| R24 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 16 |
| 16TH & SNYDER | | | | | | | | | | | | | |
| R25 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 15 |
| GRANT & STATE RD. RELIEF | | | | | | | | | | | | | |
| R26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | |
| TOTAL | 24 | 23 | 25 | 32 | 18 | 20 | 35 | 20 | 34 | 28 | 30 | 43 | 323 |
| | | | | | | | | | | | | | |
| AVER | 0.9 | 0.9 | 0.9 | 1.2 | 0.7 | 0.7 | 1.3 | 0.7 | 1.3 | 1.0 | 1.1 | 1.6 | 1.2 |

## RELIEF SEWER MONTHLY DISCHARGE

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| THOMAS RUN RELIEF SEWER | | | | | | | | | | | | | |
| R01 | | | | | | | | | | | | | 0 |
| R02 | | | | | | | | | | | | | 0 |
| R03 | | | | | | | | | | | | | 0 |
| R04 | | | | | | | | | | | | | 0 |
| R05 | | | | | | | | | | | | | 0 |
| R06 | | | | | | | | | | | | | 0 |
| MAIN RELIEF SEWER | | | | | | | | | | | | | |
| R07 | | | | | | | | | | | | | 0 |
| R08 | | | | | | | | | | | | | 0 |
| R09 | | | | | | | | | | | | | 0 |
| R10 | | | | | | | | | | | | | 0 |
| R11 | | | | | | | | | | | | | 0 |
| R11A | | | | | | | | | | | | | 0 |
| R12 | | | | | | | | | | | | | 0 |
| WAKLING RELIEF SEWER | | | | | | | | | | | | | |
| R13 | | | | | | | | | | | | | 0 |
| R13A | | | | | | | | | | | | | |
| R14 | | | | | | | | | | | | | 0 |
| ROCK RUN STORM FLOOD RELIEF SEWER | | | | | | | | | | | | | |
| R15 | | | | | | | | | | | | | 0 |
| OREGON AVE RELIEF SEWER | | | | | | | | | | | | | |
| R16 | | | | | | | | | | | | | 0 |
| R17 | | | | | | | | | | | | | 0 |
| FRANKFORD HIGH LEVEL RELIEF SEWER | | | | | | | | | | | | | |
| R18 | | | | | | | | | | | | | 0 |
| 32ND ST RELIEF SEWER | | | | | | | | | | | | | |
| R19 | | | | | | | | | | | | | 0 |
| MAIN STREET RELIEF SEWER | | | | | | | | | | | | | |
| R20 | | | | | | | | | | | | | 0 |
| SOMERSET SYSTEM DIVERSION CHAMBER | | | | | | | | | | | | | |
| R21 | | | | | | | | | | | | | 0 |
| TEMPORARY REGULATOR CHAMBER | | | | | | | | | | | | | |
| R22 | | | | | | | | | | | | | 0 |
| R23 | | | | | | | | | | | | | 0 |
| ARCH ST RELIEF SEWER | | | | | | | | | | | | | |
| R24 | | | | | | | | | | | | | 0 |
| 16TH & SNYDER | | | | | | | | | | | | | |
| R25 | | | | | | | | | | | | | 0 |
| GRANT & STATE RD. RELIEF | | | | | | | | | | | | | |
| R26 | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | |
| UNITS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

## RELIEF SEWER MONTHLY BLOCKS CLEARED



| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| THOMAS RUN RELIEF SEWER | | | | | | | | | | | | | |
| R01 | | | | | | | | | | | | | 0 |
| R02 | | | | | | | | | | | | | 0 |
| R03 | | | | | | | | | | | | | 0 |
| R04 | | | | 1 | | | | | | | | | 1 |
| R05 | | | | | | | | | | | | | 0 |
| R06 | | | | | | | | | | | | | 0 |
| MAIN RELIEF SEWER | | | | | | | | | | | | | |
| R07 | | | 1 | | | | | | | | | | 1 |
| R08 | | | | | | | | | | | | | 0 |
| R09 | | | | | | | | | | | | | 0 |
| R10 | | | 1 | | | | | | | | | | 1 |
| R11 | | | | | | | | | | | | | 0 |
| R11A | | | | | | | | | | | | | 0 |
| R12 | | | | | | | | | | | | | 0 |
| WAKLING RELIEF SEWER | | | | | | | | | | | | | |
| R13 | | | | | | | | | | | | | 0 |
| R13A | | | | | | | | | | | | | |
| R14 | | | | | | | | | | | | | 0 |
| ROCK RUN STORM FLOOD RELIEF SEWER | | | | | | | | | | | | | |
| R15 | | | | | | | | | | | | | 0 |
| OREGON AVE RELIEF SEWER | | | | | | | | | | | | | |
| R16 | | | | | | | | | | | | | 0 |
| R17 | | | | | | | | | | | | | 0 |
| FRANKFORD HIGH LEVEL RELIEF SEWER | | | | | | | | | | | | | |
| R18 | | | | | | | | | | | | | 0 |
| 32ND ST RELIEF SEWER | | | | | | | | | | | | | |
| R19 | | | | | | | | | | | | | 0 |
| MAIN STREET RELIEF SEWER | | | | | | | | | | | | | |
| R20 | | | | | | | | | | | | | 0 |
| SOMERSET SYSTEM DIVERSION CHAMBER | | | | | | | | | | | | | |
| R21 | | | | | | | | | | | | | 0 |
| TEMPORARY REGULATOR CHAMBER | | | | | | | | | | | | | |
| R22 | | | | | | | | | | | | | 0 |
| R23 | | | | | | | | | | | | | 0 |
| ARCH ST RELIEF SEWER | | | | | | | | | | | | | |
| R24 | | | | | | | | | | | | | 0 |
| 16TH & SNYDER | | | | | | | | | | | | | |
| R25 | | | | | | | | | | | | | 0 |
| GRANT & STATE RD. RELIEF | | | | | | | | | | | | | |
| R26 | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| | | | | | | | | | | | | | |
| AVER | 0.00 | 0.00 | 0.08 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

CSO REGULATING CHAMBER MONTHLY INSPECTION — NEWPC & SEWPC PLANT REGULATORS — PAGE 3

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL | AVER | DTR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **UPPER PENNYPACK 5 NEWPC UNITS** | | | | | | | | | | | | | | | |
| P01 | 2 | 2 | 1 | 2 | 0 | 4 | 2 | 2 | 2 | 1 | 2 | 4 | 24 | 2.0 | 15.2 |
| P02 | 2 | 1 | 1 | 2 | 0 | 4 | 1 | 3 | 2 | 1 | 2 | 4 | 23 | 1.9 | 15.9 |
| P03 | 3 | 2 | 2 | 2 | 1 | 4 | 2 | 4 | 4 | 2 | 3 | 6 | 35 | 2.9 | 10.4 |
| P04 | 3 | 2 | 2 | 2 | 1 | 4 | 2 | 4 | 4 | 2 | 3 | 5 | 34 | 2.8 | 10.7 |
| P05 | 3 | 2 | 2 | 2 | 0 | 2 | 2 | 3 | 3 | 1 | 1 | 3 | 24 | 2.0 | 15.2 |
| **UPPER DELAWARE LOW LEVEL 12 NEWPC UNITS** | | | | | | | | | | | | | | | |
| D02 | 4 | 3 | 2 | 3 | 3 | 1 | 4 | 3 | 3 | 4 | 3 | 3 | 36 | 3.0 | 10.1 |
| D03 | 4 | 4 | 3 | 3 | 3 | 1 | 4 | 3 | 3 | 4 | 3 | 3 | 38 | 3.2 | 9.6 |
| D04 | 3 | 3 | 2 | 4 | 2 | 2 | 4 | 3 | 3 | 4 | 3 | 3 | 36 | 3.0 | 10.1 |
| D05 | 3 | 3 | 4 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 2 | 3 | 33 | 2.8 | 11.1 |
| D06 | 4 | 3 | 2 | 3 | 2 | 1 | 3 | 2 | 4 | 3 | 3 | 3 | 33 | 2.8 | 11.1 |
| D07 | 3 | 3 | 2 | 3 | 2 | 1 | 4 | 2 | 4 | 1 | 3 | 3 | 31 | 2.6 | 11.8 |
| D08 | 3 | 3 | 2 | 1 | 1 | 1 | 4 | 2 | 2 | 3 | 2 | 1 | 25 | 2.1 | 14.6 |
| D09 | 4 | 2 | 1 | 2 | 2 | 1 | 4 | 2 | 2 | 2 | 3 | 2 | 27 | 2.3 | 13.5 |
| D11 | 3 | 2 | 1 | 2 | 1 | 1 | 4 | 2 | 2 | 1 | 2 | 3 | 24 | 2.0 | 15.2 |
| D12 | 2 | 3 | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 2 | 3 | 2 | 24 | 2.0 | 15.2 |
| D13 | 2 | 3 | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 3 | 3 | 2 | 25 | 2.1 | 14.6 |
| D15 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 1 | 3 | 1 | 3 | 3 | 25 | 2.1 | 14.6 |
| **LOWER FRANKFORD CREEK 6 NEWPC UNITS** | | | | | | | | | | | | | | | |
| F13 | 2 | 3 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 5 | 0 | 2 | 29 | 2.4 | 12.6 |
| F14 | 2 | 4 | 1 | 2 | 1 | 1 | 2 | 3 | 3 | 5 | 0 | 2 | 26 | 2.2 | 14.0 |
| F21 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 1 | 1 | 22 | 1.8 | 16.6 |
| F23 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 1 | 4 | 27 | 2.3 | 13.5 |
| F24 | 2 | 1 | 1 | 2 | 1 | 3 | 2 | 2 | 3 | 3 | 0 | 1 | 21 | 1.8 | 17.4 |
| F25 | 2 | 2 | 1 | 2 | 1 | 0 | 2 | 2 | 3 | 3 | 0 | 1 | 19 | 1.6 | 19.2 |
| **LOWER FRANKFORD LOW LEVEL 10 NEWPC UNITS** | | | | | | | | | | | | | | | |
| F03 | 2 | 3 | 1 | 2 | 1 | 1 | 3 | 2 | 3 | 3 | 2 | 2 | 25 | 2.1 | 14.6 |
| F04 | 2 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 3 | 3 | 2 | 2 | 24 | 2.0 | 15.2 |
| F05 | 2 | 2 | 0 | 2 | 1 | 1 | 3 | 3 | 3 | 3 | 2 | 2 | 24 | 2.0 | 15.2 |
| F06 | 3 | 2 | 2 | 3 | 1 | 1 | 4 | 2 | 3 | 4 | 3 | 2 | 30 | 2.5 | 12.2 |
| F07 | 1 | 3 | 2 | 3 | 1 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | 25 | 2.1 | 14.6 |
| F08 | 2 | 4 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | 26 | 2.2 | 14.0 |
| F09 | 2 | 5 | 2 | 4 | 1 | 3 | 3 | 3 | 3 | 4 | 1 | 2 | 33 | 2.8 | 11.1 |
| F10 | 2 | 4 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 5 | 0 | 2 | 27 | 2.3 | 13.5 |
| F11 | 2 | 4 | 2 | 3 | 1 | 4 | 2 | 3 | 4 | 4 | 1 | 2 | 32 | 2.7 | 11.4 |
| F12 | 2 | 3 | 1 | 3 | 1 | 3 | 3 | 2 | 3 | 5 | 0 | 2 | 28 | 2.3 | 13.0 |
| **FRANKFORD HIGH LEVEL 14 NEWPC UNITS** | | | | | | | | | | | | | | | |
| T01 | 2 | 2 | 1 | 2 | 0 | 3 | 2 | 3 | 3 | 3 | 1 | 1 | 23 | 1.9 | 15.9 |
| T03 | 2 | 3 | 3 | 2 | 0 | 3 | 3 | 3 | 4 | 4 | 3 | 1 | 31 | 2.6 | 11.8 |
| T04 | 2 | 2 | 2 | 2 | 1 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 28 | 2.3 | 13.0 |
| T05 | 2 | 2 | 2 | 2 | 1 | 4 | 2 | 4 | 3 | 2 | 3 | 3 | 30 | 2.5 | 12.2 |
| T06 | 2 | 2 | 2 | 2 | 1 | 4 | 2 | 3 | 3 | 2 | 3 | 3 | 29 | 2.4 | 12.6 |
| T07 | 2 | 2 | 2 | 2 | 1 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 27 | 2.3 | 13.5 |
| T08 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 3 | 3 | 2 | 24 | 2.0 | 15.2 |
| T09 | 2 | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 21 | 1.8 | 17.4 |
| T10 | 4 | 1 | 2 | 2 | 0 | 4 | 3 | 4 | 4 | 5 | 4 | 3 | 36 | 3.0 | 10.1 |
| T11 | 2 | 1 | 2 | 2 | 0 | 3 | 3 | 4 | 4 | 5 | 4 | 3 | 33 | 2.8 | 11.1 |
| T12 | 2 | 1 | 2 | 2 | 0 | 2 | 3 | 2 | 5 | 4 | 4 | 2 | 29 | 2.4 | 12.6 |
| T13 | 4 | 1 | 2 | 2 | 0 | 3 | 2 | 2 | 4 | 4 | 4 | 1 | 29 | 2.4 | 12.6 |
| T14 | 2 | 2 | 1 | 2 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 19 | 1.6 | 19.2 |
| T15 | 2 | 2 | 1 | 2 | 0 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 16 | 1.3 | 22.8 |

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL | AVER | DTR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SOMERSET LOW LEVEL 9 NEWPC UNITS** | | | | | | | | | | | | | | | |
| D17 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 1 | 4 | 1 | 3 | 2 | 25 | 2.1 | 14.6 |
| D18 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 1 | 4 | 1 | 3 | 2 | 25 | 2.1 | 14.6 |
| D19 | 2 | 1 | 2 | 2 | 1 | 2 | 3 | 1 | 4 | 1 | 3 | 2 | 24 | 2.0 | 15.2 |
| D20 | 2 | 1 | 2 | 2 | 1 | 0 | 2 | 1 | 3 | 1 | 2 | 2 | 19 | 1.6 | 19.2 |
| D21 | 2 | 2 | 3 | 2 | 1 | 0 | 3 | 1 | 3 | 1 | 2 | 2 | 22 | 1.8 | 16.6 |
| D22 | 2 | 2 | 1 | 2 | 1 | 0 | 2 | 1 | 3 | 1 | 2 | 2 | 19 | 1.6 | 19.2 |
| D23 | 3 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 3 | 1 | 2 | 2 | 22 | 1.8 | 16.6 |
| D24 | 2 | 2 | 1 | 2 | 1 | 0 | 2 | 1 | 3 | 1 | 1 | 1 | 17 | 1.4 | 21.5 |
| D25 | 1 | 2 | 1 | 1 | 1 | 0 | 2 | 1 | 4 | 1 | 1 | 2 | 17 | 1.4 | 21.5 |
| **LOWER DELAWARE LOW LEVEL 33 SEWPC UNITS** | | | | | | | | | | | | | | | |
| D37 | 3 | 2 | 5 | 3 | 3 | 4 | 2 | 0 | 3 | 1 | 2 | 1 | 29 | 2.4 | 12.6 |
| D38 | 3 | 2 | 3 | 2 | 1 | 4 | 2 | 1 | 2 | 2 | 1 | 2 | 25 | 2.1 | 14.6 |
| D39 | 2 | 2 | 2 | 2 | 1 | 3 | 2 | 1 | 2 | 2 | 1 | 2 | 22 | 1.8 | 16.6 |
| D40 | 2 | 2 | 2 | 4 | 2 | 3 | 2 | 1 | 2 | 2 | 1 | 3 | 26 | 2.2 | 14.0 |
| D41 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 21 | 1.8 | 17.4 |
| D42 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 19 | 1.6 | 19.2 |
| D43 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 20 | 1.7 | 18.2 |
| D44 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 0 | 2 | 20 | 1.7 | 18.2 |
| D45 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 24 | 2.0 | 15.2 |
| D46 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 19 | 1.6 | 19.2 |
| D47 | 2 | 2 | 2 | 1 | 1 | 3 | 2 | 1 | 2 | 1 | 1 | 2 | 20 | 1.7 | 18.2 |
| D48 | 2 | 2 | 2 | 1 | 1 | 3 | 2 | 1 | 2 | 1 | 1 | 2 | 20 | 1.7 | 18.2 |
| D49 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 19 | 1.6 | 19.2 |
| D50 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 1 | 2 | 1 | 2 | 1 | 21 | 1.8 | 17.4 |
| D51 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 19 | 1.6 | 19.2 |
| D51A | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 19 | 1.6 | 19.2 |
| D52 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 19 | 1.6 | 19.2 |
| D53 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 2 | 6 | 0.5 | 60.8 |
| D54 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 20 | 1.7 | 18.2 |
| D58 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 26 | 2.2 | 14.0 |
| D61 | 2 | 2 | 2 | 1 | 1 | 3 | 2 | 1 | 1 | 2 | 1 | 3 | 21 | 1.8 | 17.4 |
| D62 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 1 | 2 | 1 | 2 | 3 | 21 | 1.8 | 17.4 |
| D63 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 1 | 2 | 1 | 2 | 3 | 21 | 1.8 | 17.4 |
| D64 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 3 | 23 | 1.9 | 15.9 |
| D65 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 3 | 20 | 1.7 | 18.2 |
| D66 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 3 | 19 | 1.6 | 19.2 |
| D67 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 20 | 1.7 | 18.2 |
| D68 | 6 | 2 | 2 | 2 | 4 | 5 | 0 | 1 | 2 | 2 | 2 | 2 | 30 | 2.5 | 12.2 |
| D69 | 5 | 3 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 25 | 2.1 | 14.6 |
| D70 | 3 | 3 | 1 | 3 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 2 | 24 | 2.0 | 15.2 |
| D71 | 3 | 3 | 1 | 3 | 1 | 3 | 2 | 1 | 1 | 3 | 2 | 1 | 24 | 2.0 | 15.2 |
| D72 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 3 | 2 | 1 | 21 | 1.8 | 17.4 |
| D73 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 19 | 1.6 | 19.2 |
| | | | | | | | | | | | | | | | |
| **TOTAL** | 209 | 196 | 156 | 173 | 99 | 190 | 209 | 163 | 223 | 200 | 166 | 198 | 2182 | | |
| | | | | | | | | | | | | | | | |
| **I /D/C** | 3.4 | 3.2 | 2.6 | 2.8 | 1.6 | 3.1 | 3.4 | 2.7 | 3.7 | 3.3 | 2.7 | 3.3 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| **UP** | 13 | 9 | 8 | 10 | 2 | 18 | 9 | 16 | 15 | 7 | 11 | 22 | 140 | 2.3 | 13.5 |
| **UDLL** | 37 | 34 | 23 | 30 | 21 | 14 | 43 | 27 | 33 | 31 | 33 | 31 | 357 | 2.5 | 12.6 |
| **LFC** | 12 | 14 | 6 | 12 | 8 | 12 | 13 | 14 | 18 | 22 | 2 | 11 | 144 | 2.0 | 15.5 |
| **LFLL** | 20 | 32 | 15 | 26 | 11 | 17 | 27 | 23 | 31 | 37 | 15 | 20 | 274 | 2.3 | 13.5 |
| **FHL** | 32 | 24 | 25 | 26 | 5 | 38 | 32 | 41 | 41 | 42 | 40 | 29 | 375 | 2.2 | 14.3 |
| **SLL** | 18 | 16 | 15 | 17 | 9 | 8 | 22 | 9 | 31 | 9 | 19 | 17 | 190 | 1.8 | 17.7 |
| **LDLL** | 77 | 67 | 64 | 52 | 43 | 83 | 63 | 33 | 54 | 52 | 46 | 68 | 702 | 1.8 | 18.4 |

| | | |
|---|---|---|
| 0 | TOTAL DISCHARGES FOR NE & SE DISTRICTS | DTR = DAYS TO RETURN TO SITE |
| 0.0 | AVERAGE DISCHARGES PER MONTH | I/D/C = INSPECTIONS PER DAY PER CREW |
| 15.1 | AVER. DAYS BEFORE RETURNING TO SITE | I/D = INSPECTIONS PER DISCHARGE |
| 3.0 | AVER. INSPECTIONS PER DAY PER CREW | |

**CSO REGULATING CHAMBER DISCHARGE** — **NEWPC & SEWPC PLANT REGULATORS** — **PAGE 4**

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **UPPER PENNYPACK 5 NEWPC UNITS** | | | | | | | | | | | | | |
| P01 | | | | | | | | | | | | | 0 |
| P02 | | | | | | | | | | | | | 0 |
| P03 | | | | | | | | | | | | | 0 |
| P04 | | | | | | | | | | | | | 0 |
| P05 | | | | | | | | | | | | | 0 |
| **UPPER DELAWARE LOW LEVEL 12 NEWPC UNITS** | | | | | | | | | | | | | |
| D02 | | | | | | | | | | | | | 0 |
| D03 | | | | | | | | | | | | | 0 |
| D04 | | | | | | | | | | | | | 0 |
| D05 | | | | | | | | | | | | | 0 |
| D06 | | | | | | | | | | | | | 0 |
| D07 | | | | | | | | | | | | | 0 |
| D08 | | | | | | | | | | | | | 0 |
| D09 | | | | | | | | | | | | | 0 |
| D11 | | | | | | | | | | | | | 0 |
| D12 | | | | | | | | | | | | | 0 |
| D13 | | | | | | | | | | | | | 0 |
| D15 | | | | | | | | | | | | | 0 |
| **LOWER FRANKFORD CREEK 6 NEWPC UNITS** | | | | | | | | | | | | | |
| F13 | | | | | | | | | | | | | 0 |
| F14 | | | | | | | | | | | | | 0 |
| F21 | | | | | | | | | | | | | 0 |
| F23 | | | | | | | | | | | | | 0 |
| F24 | | | | | | | | | | | | | 0 |
| F25 | | | | | | | | | | | | | 0 |
| **LOWER FRANKFORD LOW LEVEL 10 NEWPC UNITS** | | | | | | | | | | | | | |
| F03 | | | | | | | | | | | | | 0 |
| F04 | | | | | | | | | | | | | 0 |
| F05 | | | | | | | | | | | | | 0 |
| F06 | | | | | | | | | | | | | 0 |
| F07 | | | | | | | | | | | | | 0 |
| F08 | | | | | | | | | | | | | 0 |
| F09 | | | | | | | | | | | | | 0 |
| F10 | | | | | | | | | | | | | 0 |
| F11 | | | | | | | | | | | | | 0 |
| F12 | | | | | | | | | | | | | 0 |
| **FRANKFORD HIGH LEVEL 14 NEWPC UNITS** | | | | | | | | | | | | | |
| T01 | | | | | | | | | | | | | 0 |
| T03 | | | | | | | | | | | | | 0 |
| T04 | | | | | | | | | | | | | 0 |
| T05 | | | | | | | | | | | | | 0 |
| T06 | | | | | | | | | | | | | 0 |
| T07 | | | | | | | | | | | | | 0 |
| T08 | | | | | | | | | | | | | 0 |
| T09 | | | | | | | | | | | | | 0 |
| T10 | | | | | | | | | | | | | 0 |
| T11 | | | | | | | | | | | | | 0 |
| T12 | | | | | | | | | | | | | 0 |
| T13 | | | | | | | | | | | | | 0 |
| T14 | | | | | | | | | | | | | 0 |
| T15 | | | | | | | | | | | | | 0 |

| | NO OF DISCHARGES IN DISTRICT | | | | | | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **UP** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **UDLL** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **LFC** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **LFLL** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **FHL** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **SLL** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **LDLL** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SOMERSET LOW LEVEL 9 NEWPC UNITS** | | | | | | | | | | | | | |
| D17 | | | | | | | | | | | | | 0 |
| D18 | | | | | | | | | | | | | 0 |
| D19 | | | | | | | | | | | | | 0 |
| D20 | | | | | | | | | | | | | 0 |
| D21 | | | | | | | | | | | | | 0 |
| D22 | | | | | | | | | | | | | 0 |
| D23 | | | | | | | | | | | | | 0 |
| D24 | | | | | | | | | | | | | 0 |
| D25 | | | | | | | | | | | | | 0 |
| **LOWER DELAWARE LOW LEVEL 33 SEWPC UNITS** | | | | | | | | | | | | | |
| D37 | | | | | | | | | | | | | 0 |
| D38 | | | | | | | | | | | | | 0 |
| D39 | | | | | | | | | | | | | 0 |
| D40 | | | | | | | | | | | | | 0 |
| D41 | | | | | | | | | | | | | 0 |
| D42 | | | | | | | | | | | | | 0 |
| D43 | | | | | | | | | | | | | 0 |
| D44 | | | | | | | | | | | | | 0 |
| D45 | | | | | | | | | | | | | 0 |
| D46 | | | | | | | | | | | | | 0 |
| D47 | | | | | | | | | | | | | 0 |
| D48 | | | | | | | | | | | | | 0 |
| D49 | | | | | | | | | | | | | 0 |
| D50 | | | | | | | | | | | | | 0 |
| D51 | | | | | | | | | | | | | 0 |
| D51A | | | | | | | | | | | | | 0 |
| D52 | | | | | | | | | | | | | 0 |
| D53 | | | | | | | | | | | | | 0 |
| D54 | | | | | | | | | | | | | 0 |
| D58 | | | | | | | | | | | | | 0 |
| D61 | | | | | | | | | | | | | 0 |
| D62 | | | | | | | | | | | | | 0 |
| D63 | | | | | | | | | | | | | 0 |
| D64 | | | | | | | | | | | | | 0 |
| D65 | | | | | | | | | | | | | 0 |
| D66 | | | | | | | | | | | | | 0 |
| D67 | | | | | | | | | | | | | 0 |
| D68 | | | | | | | | | | | | | 0 |
| D69 | | | | | | | | | | | | | 0 |
| D70 | | | | | | | | | | | | | 0 |
| D71 | | | | | | | | | | | | | 0 |
| D72 | | | | | | | | | | | | | 0 |
| D73 | | | | | | | | | | | | | 0 |
| D75 | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | **TOTAL DISC** |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | NO OF UNITS IN DISTRICT BLOCKED | | | | | | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **UP** | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 |
| **UDLL** | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 12 |
| **LFC** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 3 | 7 |
| **LFLL** | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 9 |
| **FHL** | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 0 | 8 |
| **SLL** | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 6 |
| **LDLL** | 8 | 6 | 8 | 4 | 9 | 6 | 6 | 2 | 1 | 0 | 1 | 3 | 54 |

**CSO REGULATING CHAMBER MONTHLY BLOCKS CLEARED** — **NEWPC & SEWPC PLANT REGULATORS PAGE 5**

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **UPPER PENNYPACK 5 NEWPC UNITS** | | | | | | | | | | | | | |
| P01 | | | | | | | | | | | | | 0 |
| P02 | | | | | | | | | | | | | 0 |
| P03 | | 1 | | | | | | | 1 | | | | 2 |
| P04 | | | | | | | | | | | 1 | | 1 |
| P05 | | | | | | | | | | | | | 0 |
| **UPPER DELAWARE LOW LEVEL 12 NEWPC UNITS** | | | | | | | | | | | | | |
| D02 | | | | | | | | | | | | | 0 |
| D03 | | | | | | | | | | | | 1 | 1 |
| D04 | | | | | | | | | | | | | 0 |
| D05 | 1 | | 1 | | | | | | | | | | 2 |
| D06 | | | | | | | | | | | 1 | | 1 |
| D07 | 1 | | | | | | | | | | | | 1 |
| D08 | | 1 | | | | | | | | 1 | | 1 | 3 |
| D09 | | | | | | | | | | | | 1 | 1 |
| D11 | | | | | | | | | | | | | 0 |
| D12 | | | | | | | | | | | | | 0 |
| D13 | | | | | | | | | | | | | 0 |
| D15 | 1 | 2 | | | | | | | | | | | 3 |
| **LOWER FRANKFORD CREEK 6 NEWPC UNITS** | | | | | | | | | | | | | |
| F13 | | | | | | | | | | | | | 0 |
| F14 | | | | | | | | | 1 | | | | 1 |
| F21 | | | | | | | | | | | | | 0 |
| F23 | | | | | | | | | 1 | | 1 | 3 | 5 |
| F24 | | | | | | | | | 1 | | | | 1 |
| F25 | | | | | | | | | | | | | 0 |
| **LOWER FRANKFORD LOW LEVEL 10 NEWPC UNITS** | | | | | | | | | | | | | |
| F03 | | | | | | | | | 1 | | | | 1 |
| F04 | | | | | | | | 1 | | | | | 1 |
| F05 | | | | | | | | | | | | | 0 |
| F06 | | | | | | | | | | | | | 0 |
| F07 | | | 1 | | | | | | | | | | 1 |
| F08 | | | | | | | | | | | | | 0 |
| F09 | | 2 | | 1 | | | | | 1 | | | | 4 |
| F10 | | | | | 1 | | | | | | | | 1 |
| F11 | | | | | | | | | | | | | 0 |
| F12 | | | | | | | | | 1 | | | | 1 |
| **FRANKFORD HIGH LEVEL 14 NEWPC UNITS** | | | | | | | | | | | | | |
| T01 | | 1 | | | | | | | | | | | 1 |
| T03 | | | | | | | | | | | | | 0 |
| T04 | | | | | | | | | | | | | 0 |
| T05 | | | | | | | | 1 | | | | | 1 |
| T06 | | | | | | | | | 1 | | | | 1 |
| T07 | | | | | | | | | | | 1 | | 1 |
| T08 | | | | | | | | | | | | | 0 |
| T09 | | 1 | | | | | | | | 1 | | | 2 |
| T10 | | | | | | | | | | | | | 0 |
| T11 | | | | | | | | 1 | | | | | 1 |
| T12 | | | | | | | | | | | | | 0 |
| T13 | 1 | | | | | | | | | | | | 1 |
| T14 | | | | | | | | | | | | | 0 |
| T15 | | | | | | | | | | | | | 0 |

8.3 AVERAGE BLOCKAGES PER MONTH

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SOMERSET LOW LEVEL 9 NEWPC UNITS** | | | | | | | | | | | | | |
| D17 | | | | | | | | | | | | | 0 |
| D18 | | | 1 | | | | | | | | | | 1 |
| D19 | | | 1 | | | | | | | | | | 1 |
| D20 | | | | | | | | | | | | | 0 |
| D21 | | | | | | | | | | | | | 0 |
| D22 | | | | | | | | | | | | | 0 |
| D23 | 2 | | | | | 1 | | | | 1 | | | 4 |
| D24 | | | | | | | | | | | | | 0 |
| D25 | | | | | | | | | | | | | 0 |
| **LOWER DELAWARE LOW LEVEL 33 SEWPC UNITS** | | | | | | | | | | | | | |
| D37 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | | | | | | 10 |
| D38 | | | | | | 1 | | | 1 | | | | 2 |
| D39 | | | | | | | 1 | | | | | | 1 |
| D40 | | | | | 2 | 1 | 2 | | | | | 1 | 6 |
| D41 | | | | | | | | | | | | | 0 |
| D42 | | | | | 1 | | | | | | | | 1 |
| D43 | | | | | | | | | | | | | 0 |
| D44 | 1 | 1 | | | | | | | | | | | 2 |
| D45 | | | | | | | | | | | | | 0 |
| D46 | | | | | | | | | | | | | 0 |
| D47 | | | | | | | | | | | | | 0 |
| D48 | | | | | | | | | | | | | 0 |
| D49 | | 1 | 1 | | | | | | | | | | 2 |
| D50 | | | | | | | | | | | | | 0 |
| D51 | 1 | | 1 | | | 1 | 1 | 1 | | | | | 5 |
| D51A | | | | | | | | | | | | | 0 |
| D52 | | | | | | | | | | | | | 0 |
| D53 | | | | | | | | | | | | 1 | 1 |
| D54 | | | | | | | | | | | | | 0 |
| D58 | | | 1 | | | | | | | | | | 1 |
| D61 | | 1 | 2 | 1 | 1 | 1 | | | | | | 2 | 8 |
| D62 | | | 1 | | | | | | | | | | 1 |
| D63 | | | | | | | | | | | | | 0 |
| D64 | | | | | | | | | | | | | 0 |
| D65 | | | | | | | | | | | | | 0 |
| D66 | | | | | | | | | | | | | 0 |
| D67 | | 1 | | | | | | | | | | | 1 |
| D68 | 3 | 1 | | 1 | 3 | 1 | | 1 | | | | | 10 |
| D69 | | | | | | | | | | | | | 0 |
| D70 | | | | 1 | 1 | | | | | | | | 2 |
| D71 | | | | | | | | | | | | | 0 |
| D72 | | | | | | | 1 | | | | | | 1 |
| D73 | | | | | | | | | | | | | 0 |
| D75 | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | **TOTAL** |
| | 14 | 14 | 12 | 5 | 10 | 7 | 6 | 5 | 9 | 3 | 5 | 9 | 99 |
| **UP** | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 |
| **UDLL** | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 12 |
| **LFC** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 3 | 7 |
| **LFLL** | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 9 |
| **FHL** | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 0 | 8 |
| **SLL** | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 6 |
| **LDLL** | 8 | 6 | 8 | 4 | 9 | 6 | 6 | 2 | 1 | 0 | 1 | 3 | 54 |

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL | AVER | DTR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CENTRAL SCHUYLKILL EAST SIDE 18 SWWPC UNITS** | | | | | | | | | | | | | | | |
| S05 | 1 | 2 | 0 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 17 | 1.4 | 21.5 |
| S06 | 1 | 2 | 0 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 17 | 1.4 | 21.5 |
| S07 | 1 | 1 | 0 | 2 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 16 | 1.3 | 22.8 |
| S08 | 1 | 2 | 0 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 17 | 1.4 | 21.5 |
| S09 | 1 | 2 | 0 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 2 | 18 | 1.5 | 20.3 |
| S10 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 3 | 2 | 14 | 1.2 | 26.1 |
| S12 | 2 | 3 | 0 | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 3 | 2 | 23 | 1.9 | 15.9 |
| S12A | 2 | 4 | 0 | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 3 | 2 | 24 | 2.0 | 15.2 |
| S13 | 2 | 3 | 0 | 1 | 2 | 2 | 1 | 1 | 2 | 3 | 3 | 2 | 22 | 1.8 | 16.6 |
| S15 | 2 | 3 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 4 | 3 | 1 | 23 | 1.9 | 15.9 |
| S16 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 15 | 1.3 | 24.3 |
| S17 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 16 | 1.3 | 22.8 |
| S18 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 3 | 2 | 18 | 1.5 | 20.3 |
| S19 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 3 | 2 | 1 | 19 | 1.6 | 19.2 |
| S21 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 3 | 2 | 3 | 22 | 1.8 | 16.6 |
| S23 | 2 | 2 | 1 | 2 | 2 | 3 | 1 | 1 | 4 | 3 | 3 | 2 | 26 | 2.2 | 14.0 |
| S25 | 2 | 1 | 1 | 2 | 1 | 2 | 0 | 1 | 1 | 2 | 2 | 2 | 17 | 1.4 | 21.5 |
| S26 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 3 | 1 | 2 | 2 | 1 | 15 | 1.3 | 24.3 |
| **LOWER SCHUYLKILL EAST SIDE 9 SWWPC UNITS** | | | | | | | | | | | | | | | |
| S31 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 2 | 1 | 3 | 14 | 1.2 | 26.1 |
| S35 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 3 | 17 | 1.4 | 21.5 |
| S36 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0.3 | 91.2 |
| S36A | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 3 | 17 | 1.4 | 21.5 |
| S37 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0.4 | 73.0 |
| S42 | 6 | 4 | 4 | 2 | 1 | 5 | 2 | 2 | 2 | 3 | 1 | 3 | 35 | 2.9 | 10.4 |
| S42A | 4 | 2 | 1 | 2 | 1 | 5 | 4 | 1 | 3 | 3 | 2 | 3 | 31 | 2.6 | 11.8 |
| S44 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0.4 | 73.0 |
| S46 | 7 | 3 | 1 | 2 | 1 | 2 | 4 | 1 | 2 | 2 | 2 | 1 | 28 | 2.3 | 13.0 |
| **CENTRAL SCHUYLKILL WEST 9 SWWPC UNITS** | | | | | | | | | | | | | | | |
| S01 | 1 | 2 | 0 | 1 | 1 | 1 | 0 | 2 | 3 | 2 | 3 | 2 | 18 | 1.5 | 20.3 |
| S02 | 1 | 2 | 0 | 1 | 1 | 1 | 0 | 2 | 1 | 2 | 3 | 2 | 16 | 1.3 | 22.8 |
| S03 | 1 | 2 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 2 | 3 | 2 | 15 | 1.3 | 24.3 |
| S04 | 1 | 2 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 16 | 1.3 | 22.8 |
| S11 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 3 | 2 | 18 | 1.5 | 20.3 |
| S14 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 2 | 3 | 2 | 14 | 1.2 | 26.1 |
| S20 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 15 | 1.3 | 24.3 |
| S22 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 17 | 1.4 | 21.5 |
| S24 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 16 | 1.3 | 22.8 |
| **SOUTHWEST MAIN GRAVITY 10 SWWPC UNITS** | | | | | | | | | | | | | | | |
| S27 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 2 | 0 | 3 | 1 | 13 | 1.1 | 28.1 |
| S28 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 14 | 1.2 | 26.1 |
| S30 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 15 | 1.3 | 24.3 |
| S34 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 14 | 1.2 | 26.1 |
| S39 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 16 | 1.3 | 22.8 |
| S40 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 5 | 0.4 | 73.0 |
| S43 | 2 | 1 | 1 | 2 | 0 | 1 | 3 | 1 | 1 | 1 | 2 | 2 | 17 | 1.4 | 21.5 |
| S47 | 2 | 1 | 1 | 2 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 14 | 1.2 | 26.1 |
| S50 | 9 | 6 | 4 | 2 | 3 | 3 | 1 | 1 | 3 | 1 | 2 | 1 | 36 | 3.0 | 10.1 |
| S51 | 3 | 3 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 21 | 1.8 | 17.4 |
| **LOWER SCHUYLKILL WEST SIDE 4 SWWPC UNITS** | | | | | | | | | | | | | | | |
| S32 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 14 | 1.2 | 26.1 |
| S33 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 16 | 1.3 | 22.8 |
| S38 | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 3 | 1 | 17 | 1.4 | 21.5 |
| S45 | 2 | 1 | 1 | 2 | 0 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 16 | 1.3 | 22.8 |

| | | | |
|---|---|---|---|
| 1 | TOTAL DISCHARGES IN SW DISTRICT | DTR = DAYS TO RETURN TO SITE | |
| 0.1 | AVERAGE DISCHARGES PER MONTH | I/D/C = INSPECTIONS PER DAY PER CREW | |
| 26.5 | AVER. DAYS BEFORE RETURNING TO SITE | I/D = INSPECTIONS PER DISCHARGE | |
| 1.2 | AVER. INSPECTIONS PER DAY PER CREW | | |

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL | AVER | DTR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **COBBS CREEK HIGH LEVEL 24 SWWPC UNITS** | | | | | | | | | | | | | | | |
| C01 | 1 | 2 | 1 | 1 | 1 | 0 | 1 | 0 | 2 | 2 | 1 | 2 | 14 | 1.2 | 26.1 |
| C02 | 1 | 2 | 1 | 1 | 1 | 0 | 1 | 0 | 2 | 2 | 1 | 2 | 14 | 1.2 | 26.1 |
| C04 | 1 | 2 | 3 | 1 | 2 | 0 | 1 | 0 | 1 | 3 | 2 | 2 | 18 | 1.5 | 20.3 |
| C04A | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 3 | 1 | 2 | 13 | 1.1 | 28.1 |
| C05 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 3 | 1 | 2 | 13 | 1.1 | 28.1 |
| C06 | 2 | 1 | 2 | 1 | 1 | 0 | 2 | 1 | 1 | 4 | 1 | 2 | 18 | 1.5 | 20.3 |
| C07 | 2 | 2 | 1 | 1 | 1 | 0 | 2 | 1 | 1 | 4 | 1 | 2 | 18 | 1.5 | 20.3 |
| C09 | 2 | 1 | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 3 | 1 | 2 | 19 | 1.6 | 19.2 |
| C10 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 1 | 2 | 13 | 1.1 | 28.1 |
| C11 | 2 | 1 | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 3 | 1 | 2 | 19 | 1.6 | 19.2 |
| C12 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 1 | 3 | 13 | 1.1 | 28.1 |
| C13 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 2 | 1 | 2 | 3 | 14 | 1.2 | 26.1 |
| C14 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 3 | 14 | 1.2 | 26.1 |
| C15 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 3 | 14 | 1.2 | 26.1 |
| C16 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 3 | 14 | 1.2 | 26.1 |
| C17 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 2 | 2 | 2 | 13 | 1.1 | 28.1 |
| C18 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 2 | 3 | 2 | 14 | 1.2 | 26.1 |
| C31 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 2 | 2 | 12 | 1.0 | 30.4 |
| C32 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 2 | 3 | 13 | 1.1 | 28.1 |
| C33 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 3 | 11 | 0.9 | 33.2 |
| C34 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 3 | 10 | 0.8 | 36.5 |
| C35 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 3 | 10 | 0.8 | 36.5 |
| C36 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 3 | 9 | 0.8 | 40.5 |
| C37 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 2 | 9 | 0.8 | 40.5 |
| **COBBS CREEK LOW LEVEL 12 SWWPC UNITS** | | | | | | | | | | | | | | | |
| C19 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 2 | 5 | 2 | 16 | 1.3 | 22.8 |
| C20 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 2 | 3 | 2 | 14 | 1.2 | 26.1 |
| C21 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 2 | 3 | 2 | 14 | 1.2 | 26.1 |
| C22 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 2 | 4 | 2 | 15 | 1.3 | 24.3 |
| C23 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 3 | 2 | 13 | 1.1 | 28.1 |
| C24 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 4 | 2 | 14 | 1.2 | 26.1 |
| C25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 3 | 3 | 18 | 1.5 | 20.3 |
| C26 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 3 | 3 | 13 | 1.1 | 28.1 |
| C27 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 3 | 3 | 13 | 1.1 | 28.1 |
| C28A | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 3 | 3 | 13 | 1.1 | 28.1 |
| C29 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 3 | 3 | 14 | 1.2 | 26.1 |
| C30 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 3 | 2 | 13 | 1.1 | 28.1 |
| | | | | | | | | | | | | | | | |
| **TOTAL** | 133 | 126 | 76 | 108 | 71 | 78 | 87 | 68 | 110 | 158 | 179 | 173 | 1367 | | |
| | | | | | | | | | | | | | | | |
| **I /D/C** | 1.5 | 1.4 | 0.8 | 1.2 | 0.8 | 0.9 | 1.0 | 0.7 | 1.2 | 1.7 | 2.0 | 1.9 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| **CSES** | 25 | 34 | 9 | 29 | 24 | 28 | 16 | 20 | 27 | 44 | 49 | 34 | 339 | 1.6 | 20.0 |
| **LSES** | 25 | 15 | 9 | 12 | 9 | 16 | 12 | 7 | 10 | 14 | 8 | 19 | 156 | 1.4 | 37.9 |
| **CSW** | 10 | 13 | 4 | 11 | 9 | 9 | 5 | 13 | 13 | 18 | 25 | 15 | 145 | 1.3 | 22.8 |
| **SWMG** | 26 | 18 | 13 | 13 | 9 | 12 | 10 | 9 | 14 | 8 | 20 | 13 | 165 | 1.4 | 27.5 |
| **LSW** | 7 | 6 | 5 | 7 | 3 | 6 | 4 | 4 | 5 | 4 | 7 | 5 | 63 | 1.3 | 23.3 |
| **CCHL** | 28 | 28 | 24 | 24 | 16 | 2 | 28 | 10 | 32 | 49 | 30 | 58 | 329 | 1.1 | 27.8 |
| **CCLL** | 12 | 12 | 12 | 12 | 1 | 5 | 12 | 5 | 9 | 21 | 40 | 29 | 170 | 1.2 | 26.0 |

**CSO REGULATING CHAMBER DISCHARGE** — **SWWPC PLANT REGULATORS** — **PAGE 7**

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CENTRAL SCHUYLKILL EAST SIDE 18 SWWPC UNITS** | | | | | | | | | | | | | |
| S05 | | | | | | | | | | | | | 0 |
| S06 | | | | | | | | | | | | | 0 |
| S07 | | | | | | | | | | | | | 0 |
| S08 | | | | | | | | | | | | | 0 |
| S09 | | | | | | | | | | | | | 0 |
| S10 | | | | | | | | | | | | | 0 |
| S12 | | | | | | | | | | | | | 0 |
| S12A | | | | | | | | | | | | | 0 |
| S13 | | | | | | | | | | | | | 0 |
| S15 | | | | | | | | | | | | | 0 |
| S16 | | | | | | | | | | | | | 0 |
| S17 | | | | | | | | | | | | | 0 |
| S18 | | | | | | | | | | | | | 0 |
| S19 | | | | | | | | | | | | | 0 |
| S21 | | | | | | | | | | | | | 0 |
| S23 | | | | | | | | | | | | | 0 |
| S25 | | | | | | | | | | | | | 0 |
| S26 | | | | | | | | | | | | | 0 |
| **LOWER SCHUYLKILL EAST SIDE 9 SWWPC UNITS** | | | | | | | | | | | | | |
| S31 | | | | | | | | | | | | | 0 |
| S35 | | | | | | | | | | | | | 0 |
| S36 | | | | | | | | | | | | | 0 |
| S36A | | | | | | | | | | | | | 0 |
| S37 | | | | | | | | | | | | | 0 |
| S42 | | | | | | | | | | | | | 0 |
| S42A | | | | | | | | | | | | | 0 |
| S44 | | | | | | | | | | | | | 0 |
| S46 | | | | | | | | | | | | | 0 |
| **CENTRAL SCHUYLKILL WEST 9 SWWPC UNITS** | | | | | | | | | | | | | |
| S01 | | | | | | | | | | | | | 0 |
| S02 | | | | | | | | | | | | | 0 |
| S03 | | | | | | | | | | | | | 0 |
| S04 | | | | | | | | | | | | | 0 |
| S11 | | | | | | | | | | | | | 0 |
| S14 | | | | | | | | | | | | | 0 |
| S20 | | | | | | | | | | | | | 0 |
| S22 | | | | | | | | | | | | | 0 |
| S24 | | | | | | | | | | | | | 0 |
| **SOUTHWEST MAIN GRAVITY 10 SWWPC UNITS** | | | | | | | | | | | | | |
| S27 | | | | | | | | | | | | | 0 |
| S28 | | | | | | | | | | | | | 0 |
| S30 | | | | | | | | | | | | | 0 |
| S34 | | | | | | | | | | | | | 0 |
| S39 | | | | | | | | | | | | | 0 |
| S40 | | | | | | | | | | | | | 0 |
| S43 | | | | | | | | | | | | | 0 |
| S47 | | | | | | | | | | | | | 0 |
| S50 | | | | | | | | | | | | | 0 |
| S51 | | | | | | | | | | | | | 0 |
| **LOWER SCHUYLKILL WEST SIDE 4 SWWPC UNITS** | | | | | | | | | | | | | |
| S32 | | | | | | | | | | | | | 0 |
| S33 | | | | | | | | | | | | | 0 |
| S38 | | | | | | | | | | | | | 0 |
| S45 | | | | | | | | | | | | | 0 |

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **COBBS CREEK HIGH LEVEL 24 SWWPC UNITS** | | | | | | | | | | | | | |
| C01 | | | | | | | | | | | | | 0 |
| C02 | | | | | | | | | | | | | 0 |
| C04 | | | | | | | | | | | | | 0 |
| C04A | | | | | | | | | | | | | 0 |
| C05 | | | | | | | | | | | | | 0 |
| C06 | | | | | | | | | | | | | 0 |
| C07 | | | | | | | | | | | | | 0 |
| C09 | | | | | | | | | | | | | 0 |
| C10 | | | | | | | | | | | | | 0 |
| C11 | | | | | | | | | | | | | 0 |
| C12 | | | | | | | | | | | | | 0 |
| C13 | | | | | | | | | | | | | 0 |
| C14 | | | | | | | | | | | | | 0 |
| C15 | | | | | | | | | | | | | 0 |
| C16 | | | | | | | | | | | | | 0 |
| C17 | | | | | | | | | | | | | 0 |
| C18 | | | | | | | | | | | | | 0 |
| C31 | | | | | | | | | | | | | 0 |
| C32 | | | | | | | | | | | | | 0 |
| C33 | | | | | | | | | | | | | 0 |
| C34 | | | | | | | | | | | | | 0 |
| C35 | | | | | | | | | | | | | 0 |
| C36 | | | | | | | | | | | | | 0 |
| C37 | | | | | | | | | | | | | 0 |
| **COBBS CREEK LOW LEVEL 12 SWWPC UNITS** | | | | | | | | | | | | | |
| C19 | | | | | | | | | | | 1 | | 1 |
| C20 | | | | | | | | | | | | | 0 |
| C21 | | | | | | | | | | | | | 0 |
| C22 | | | | | | | | | | | | | 0 |
| C23 | | | | | | | | | | | | | 0 |
| C24 | | | | | | | | | | | | | 0 |
| C25 | | | | | | | | | | | | | 0 |
| C26 | | | | | | | | | | | | | 0 |
| C27 | | | | | | | | | | | | | 0 |
| C28A | | | | | | | | | | | | | 0 |
| C29 | | | | | | | | | | | | | 0 |
| C30 | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | TOTAL DISC |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

| | NO OF UNITS IN DISTRICT BLOCKED | | | | | | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CSE** | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 11 |
| **LSE** | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| **CSW** | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| **SWG** | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | 4 | 1 | 0 | 0 | 11 |
| **LSW** | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| **CCHL** | 0 | 0 | 2 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 9 |
| **CCLL** | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 5 |

| | NO OF DISCHARGES IN DISTRICT | | | | | | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CSE** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **LSE** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CSW** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **SWG** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **LSW** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CCHL** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CCLL** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

**CSO REGULATING CHAMBER MONTHLY BLOCKS CLEARED** — **SWWPC PLANT REGULATORS** — **PAGE 8**

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CENTRAL SCHUYLKILL EAST SIDE 18 SWWPC UNITS** | | | | | | | | | | | | | |
| S05 | | | | | | | | | | | | | 0 |
| S06 | | | | | | | | | | | | | 0 |
| S07 | | | | | | | | | | | | | 0 |
| S08 | 1 | | | 1 | | | | | | | | | 2 |
| S09 | | | | | | | | | | | | | 0 |
| S10 | | | | | | | | | | | | | 0 |
| S12 | | 1 | | | | | | | | 1 | | | 2 |
| S12A | | | | | | | | | | 1 | | | 1 |
| S13 | | | | | | | | | | | | | 0 |
| S15 | | | 1 | | | | | | | 1 | | | 2 |
| S16 | | | 1 | | | | | | | | | | 1 |
| S17 | | | | | | | | 1 | | | | | 1 |
| S18 | | | | | | | | | | | | | 0 |
| S19 | | | | | | | | | | | | | 0 |
| S21 | | | | | | | | | | | | | 0 |
| S23 | | | | | | | | | | | | | 0 |
| S25 | 1 | | | | | | | | | | | | 1 |
| S26 | | | | | | | | 1 | | | | | 1 |
| **LOWER SCHUYLKILL EAST SIDE 9 SWWPC UNITS** | | | | | | | | | | | | | |
| S31 | | | | | | | | | | | | | 0 |
| S35 | | | | | | | | | | | | | 0 |
| S36 | | | | | | | | | | | | | 0 |
| S36A | | | | | | | | | | | | | 0 |
| S37 | | | | | 1 | | | | | | | | 1 |
| S42 | 1 | | | | | | | | | | | | 1 |
| S42A | | | | | | | | | | | | | 0 |
| S44 | | | | | | | | | | | | | 0 |
| S46 | 1 | 1 | | | | | | | | | | | 2 |
| **CENTRAL SCHUYLKILL WEST 9 SWWPC UNITS** | | | | | | | | | | | | | |
| S01 | | | | | | | | | | | | | 0 |
| S02 | | | | | | | | | | | | | 0 |
| S03 | | | | | | | | | | | | | 0 |
| S04 | | | | | | | | | | | | | 0 |
| S11 | 1 | | | | | | | | | | | | 1 |
| S14 | | | | | | | | | | | | | 0 |
| S20 | | | | 1 | | | | | | | | | 1 |
| S22 | | | | | | | | | | | | | 0 |
| S24 | | | | | | | | | | | | | 0 |
| **SOUTHWEST MAIN GRAVITY 10 SWWPC UNITS** | | | | | | | | | | | | | |
| S27 | | | | | | | | | 2 | | | | 2 |
| S28 | | | | | | | | | | | | | 0 |
| S30 | | | | | | | | | | | | | 0 |
| S34 | | | | | | | 1 | | | | | | 1 |
| S39 | | | | | | | | | | | | | 0 |
| S40 | | | | | | | | | | | | | 0 |
| S43 | | | | | | | | | | | | | 0 |
| S47 | | | | | | | | | | 1 | | | 1 |
| S50 | | | | 1 | 2 | | | 1 | 2 | | | | 6 |
| S51 | | | | 1 | | | | | | | | | 1 |
| **LOWER SCHUYLKILL WEST SIDE 4 SWWPC UNITS** | | | | | | | | | | | | | |
| S32 | | | | | | | | | | | | | 0 |
| S33 | | | 1 | | | | | | | | | | 1 |
| S38 | | | | | | | | | | | | | 0 |
| S45 | | | | | | | | | | | | | 0 |

3.6 AVERAGE BLOCKAGES PER MONTH

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **COBBS CREEK HIGH LEVEL 24 SWWPC UNITS** | | | | | | | | | | | | | |
| C01 | | | | | | | | | | | | | 0 |
| C02 | | | | | | | | | | | | | 0 |
| C04 | | | 1 | | 1 | | | | | | 1 | 1 | 4 |
| C04A | | | | | | | | | | | | | 0 |
| C05 | | | | | | | | | | | | | 0 |
| C06 | | | | | | | | | | | | | 0 |
| C07 | | | | 1 | | | | | | | | | 1 |
| C09 | | | | | | | | | | | | | 0 |
| C10 | | | | | | | | | | | | | 0 |
| C11 | | | | | | | | | | | | | 0 |
| C12 | | | | | | | | | | | | | 0 |
| C13 | | | | | | | | | | | | | 0 |
| C14 | | | | 1 | | | | | | | | | 1 |
| C15 | | | | 1 | | | | | | | | | 1 |
| C16 | | | 1 | | | | | | | | | | 1 |
| C17 | | | | | | | | | | | | | 0 |
| C18 | | | | | | | | | | | | | 0 |
| C31 | | | | | | | 1 | | | | | | 1 |
| C32 | | | | | | | | | | | | | 0 |
| C33 | | | | | | | | | | | | | 0 |
| C34 | | | | | | | | | | | | | 0 |
| C35 | | | | | | | | | | | | | 0 |
| C36 | | | | | | | | | | | | | 0 |
| C37 | | | | | | | | | | | | | 0 |
| **COBBS CREEK LOW LEVEL 12 SWWPC UNITS** | | | | | | | | | | | | | |
| C19 | | 1 | | 1 | | | | | | | 2 | | 4 |
| C20 | | 1 | | | | | | | | | | | 1 |
| C21 | | | | | | | | | | | | | 0 |
| C22 | | | | | | | | | | | | | 0 |
| C23 | | | | | | | | | | | | | 0 |
| C24 | | | | | | | | | | | | | 0 |
| C25 | | | | | | | | | | | | | 0 |
| C26 | | | | | | | | | | | | | 0 |
| C27 | | | | | | | | | | | | | 0 |
| C28A | | | | | | | | | | | | | 0 |
| C29 | | | | | | | | | | | | | 0 |
| C30 | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | **TOTAL** |
| | 5 | 4 | 5 | 8 | 4 | 0 | 2 | 3 | 4 | 4 | 3 | 1 | 43 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CSE** | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 11 |
| **LSE** | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| **CSW** | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| **SWG** | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | 4 | 1 | 0 | 0 | 11 |
| **LSW** | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| **CCHL** | 0 | 0 | 2 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 9 |
| **CCLL** | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 5 |

## MISCELLANEOUS SITE INSPECTIONS

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P-090-02-PFD-01 | SANDY RUN CREEK DIVERSION REGULATOR | | | | | | | | | | | | |
| | 6 | 6 | 2 | 1 | 4 | 7 | 3 | 7 | 4 | 5 | 7 | 5 | 57 |
| T-088-01-CFD-01 | PLYMOUTH ST. WEST OF PITTVILLE | | | | | | | | | | | | |
| | 1 | 1 | 1 | 2 | 2 | 7 | 4 | 6 | 4 | 4 | 3 | 2 | 37 |
| T-088-01-CFD-02 | PITTVILLE ST. SOUTH OF PLYMOUTH ST. | | | | | | | | | | | | |
| | 1 | 1 | 1 | 1 | 2 | 7 | 4 | 5 | 4 | 4 | 3 | 3 | 36 |
| T-088-01-CFD-03 | ELSTON ST. E. OF BOUVIER ST. | | | | | | | | | | | | |
| | 2 | 1 | 1 | 2 | 3 | 6 | 3 | 6 | 4 | 4 | 3 | 3 | 38 |
| T-088-01-CFD-04 | ASHLEY ST. W. OF BOUVIER ST. | | | | | | | | | | | | |
| | 2 | 1 | 1 | 2 | 3 | 6 | 4 | 5 | 4 | 4 | 2 | 3 | 37 |
| T-088-01-CFD-05 | CHELTENHAM AVE. E. OF 19TH ST. | | | | | | | | | | | | |
| | 2 | 2 | 1 | 3 | 3 | 4 | 4 | 5 | 4 | 5 | 5 | 3 | 41 |
| T-088-01-CFD-06 | VERBENA ST. S. OF CHELTENHAM AVE. | | | | | | | | | | | | |
| | 3 | 1 | 1 | 2 | 3 | 5 | 4 | 6 | 4 | 5 | 4 | 3 | 41 |
| W-060-01-MFD-01 | JANNETTE ST. WEST OF MONASTERY AVE. | | | | | | | | | | | | |
| | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 15 |
| W-060-01-MFD-02 | GREEN LANE NORTH OF LAWNTON ST. | | | | | | | | | | | | |
| | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 15 |
| T-089-04-CFD-01 | FRANKLIN & HASBROOK | | | | | | | | | | | | |
| | 7 | 6 | 2 | 3 | 4 | 7 | 3 | 6 | 4 | 5 | 5 | 3 | 55 |
| T-088-01-CFD-07 | CHELTENHAM E. OF 7 TH ST. | | | | | | | | | | | | |
| | 7 | 6 | 2 | 2 | 3 | 4 | 4 | 6 | 4 | 5 | 4 | 3 | 50 |
| T-088-01-CFD-08 | 7 TH ST. S. OF CHELTENHAM | | | | | | | | | | | | |
| | 7 | 6 | 1 | 1 | 3 | 4 | 4 | 6 | 4 | 5 | 4 | 3 | 48 |
| | | | | | | | | | | | | | |
| Totals | 40 | 35 | 15 | 21 | 32 | 59 | 39 | 60 | 42 | 50 | 42 | 35 | 470 |

## MISCELLANEOUS SITE DISCHARGES

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P-090-02-PFD-01 | SANDY RUN CREEK DIVERSION REGULATOR | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0 |
| T-088-01-CFD-01 | PLYMOUTH ST. WEST OF PITTVILLE | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0 |
| T-088-01-CFD-02 | PITTVILLE ST. SOUTH OF PLYMOUTH ST. | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0 |
| T-088-01-CFD-03 | ELSTON ST. E. OF BOUVIER ST. | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0 |
| T-088-01-CFD-04 | ASHLEY ST. W. OF BOUVIER ST. | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0 |
| T-088-01-CFD-05 | CHELTENHAM AVE. E. OF 19TH ST. | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0 |
| T-088-01-CFD-06 | VERBENA ST. S. OF CHELTENHAM AVE. | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0 |
| W-060-01-MFD-01 | JANNETTE ST. WEST OF MONASTERY AVE. | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0 |
| W-060-01-MFD-02 | GREEN LANE NORTH OF LAWNTON ST. | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0 |
| T-089-04-CFD-01 | FRANKLIN & HASBROOK | | | | | | | | | | | | |
| | | | | 1 | | | | | | | | | 1 |
| T-088-01-CFD-07 | CHELTENHAM E. OF 7 TH ST. | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0 |
| T-088-01-CFD-08 | 7 TH ST. S. OF CHELTENHAM | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | |
| Totals | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

## MISCELLANEOUS SITE BLOCKAGES CLEARED

| SITE | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P-090-02-PFD-01 | SANDY RUN CREEK DIVERSION REGULATOR | | | | | | | | | | | | |
| | | 2 | | | | 1 | | 1 | | | | | 4 |
| T-088-01-CFD-01 | PLYMOUTH ST. WEST OF PITTVILLE | | | | | | | | | | | | |
| | | | | | | 1 | 1 | | | | | | 2 |
| T-088-01-CFD-02 | PITTVILLE ST. SOUTH OF PLYMOUTH ST. | | | | | | | | | | | | |
| | | 1 | | | | | | | 1 | 1 | | | 3 |
| T-088-01-CFD-03 | ELSTON ST. E. OF BOUVIER ST. | | | | | | | | | | | | |
| | | | | | | | | | | 1 | | | 1 |
| T-088-01-CFD-04 | ASHLEY ST. W. OF BOUVIER ST. | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0 |
| T-088-01-CFD-05 | CHELTENHAM AVE. E. OF 19TH ST. | | | | | | | | | | | | |
| | | | | | | | 1 | | | | | | 1 |
| T-088-01-CFD-06 | VERBENA ST. S. OF CHELTENHAM AVE. | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0 |
| W-060-01-MFD-01 | JANNETTE ST. WEST OF MONASTERY AVE. | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0 |
| W-060-01-MFD-02 | GREEN LANE NORTH OF LAWNTON ST. | | | | | | | | | | | | |
| | | | | | | | | | | 1 | | | 1 |
| T-089-04-CFD-01 | FRANKLIN & HASBROOK | | | | | | | | | | | | |
| | 1 | | | 1 | 1 | | 1 | | | 2 | 1 | | 7 |
| T-088-01-CFD-07 | CHELTENHAM E. OF 7 TH ST. | | | | | | | | | | | | |
| | 1 | | | | | | | | 1 | 1 | 2 | | 5 |
| T-088-01-CFD-08 | 7 TH ST. S. OF CHELTENHAM | | | | | | | | | | | | |
| | | | | | | | | | | 1 | | | 1 |
| | | | | | | | | | | | | | |
| Totals | 2 | 3 | 0 | 1 | 1 | 2 | 3 | 1 | 2 | 7 | 3 | 0 | 25 |

# Maintenance Fiscal Year 2025 End Report- July 2024-June 2025

## SOMERSET GRIT D-25 CHAMBER, D-45 CHAMBER, & DWO CLEANINGS

| DATE | TONS | SITE |
|---|---|---|
| 7/13/2024 | 13.54 | D-45 |
| 10/10/2-24 | 9.79 | D-45 |
| 11/2/2024 | 9.34 | D-45 |
| 11/23/2024 | 8.72 | D-45 |
| 3/1/2025 | 12.28 | D-25 |
| 6/21/2025 | 12.13 | D-25 |
| 3/22/2025 | 9.94 | D-45 |
| 4/15/2025 | 8.89 | D-45 |
| 5/9/2025 | 6.13 | D-45 |
| 5/20/2025 | 6.57 | D-45 |
| 6/7/2025 | 9.31 | D-45 |
| 6/9/2025 | 8.17 | D-45 |
| 6/21/2025 | 9.68 | D-45 |

## CSPS SIPHON GRIT POCKET CLEANINGS

| DATE | CU. YARDS |
|---|---|
| GRIT CLEANING NOT DONE DUE TO EQUIPMENT AVAILABILITY | |

## CSO B&B REGULATOR MAINTENANCE

| DATE | SITE | DATE | SITE |
|---|---|---|---|
| 8/10/2024 | S-42a | 12/7/2024 | D-37 |
| 8/21/2024 | S-50 | 12/7/2024 | D-38 |
| 8/21/2024 | D-48 | 12/7/2024 | D-39 |
| 9/24/2024 | D-37 | 12/7/2024 | S-26 |
| 9/24/2024 | D-48 | 12/7/2024 | S-34 |
| 9/27/2024 | D-37 | 12/7/2024 | S-38 |
| 9/28/2024 | D-37 | 12/14/2024 | D-47 |
| 12/7/2024 | D-37 | 12/14/2024 | D-48 |
| 12/7/2024 | D-38 | 12/14/2024 | D-49 |
| 12/7/2024 | D-39 | 12/14/2024 | S-31 |
| 12/7/2024 | S-26 | 12/14/2024 | S-36A |
| 12/7/2024 | S-34 | 12/14/2024 | S-42 |
| 12/7/2024 | S-38 | 12/21/2024 | D-41 |
| 12/14/2024 | D-47 | 12/21/2024 | S-16 |
| 12/14/2024 | D-48 | 12/21/2024 | S-18 |
| 12/14/2024 | D-49 | 12/21/2024 | S-33 |
| 12/14/2024 | S-31 | 1/4/2025 | D-50 |
| 12/14/2024 | S-36A | 1/4/2025 | D-51 |
| 12/14/2024 | S-42 | 1/4/2025 | D-52 |
| 12/21/2024 | D-41 | 1/4/2025 | S-5 |
| 12/21/2024 | S-16 | 1/4/2025 | S-6 |
| 12/21/2024 | S-18 | 1/4/2025 | S-7 |
| 12/21/2024 | S-33 | 1/11/2025 | D-58 |
| 3/15/2025 | D-17 | 1/11/2025 | D-62 |
| 3/15/2025 | D-18 | 1/11/2025 | D-63 |
| 3/15/2025 | D-19 | 1/11/2025 | S-15 |
| 4/15/2025 | F-13 | 1/11/2025 | S-9 |
| 4/15/2025 | F-14 | 1/11/2025 | S-8 |
| 3/14/2025 | D-68 | 1/18/2025 | D-64 |
| 3/14/225 | D-73 | 1/18/2025 | D-65 |
| 4/2/2025 | D-68 | 1/25/2025 | D-66 |
| 4/2/2025 | D-73 | 1/25/2025 | D-67 |
| 4/2/2025 | D-48 | 1/25/2025 | D-69 |
| | | 1/25/2025 | S-42A |
| | | 1/25/2025 | S-43 |
| | | 1/25/2025 | S-46 |
| | | 2/22/2025 | S-42 |
| | | 2/22/2025 | S-01 |
| | | 3/22/2025 | S-22 |
| | | 3/22/2025 | S-24 |
| | | 5/31/2025 | D-50 |
| | | 5/31/2025 | D-41 |

## CSO TIDE GATE MAINTENANCE

| DATE | SITE | DATE | SITE | DATE | SITE |
|---|---|---|---|---|---|
| 7/8/2024 | fishladder | 12/7/2024 | D-37 | 3/7/2025 | D-5 |
| 7/10/2024 | D-2 | 12/7/2024 | S-38 | 3/10/2025 | D-9 |
| 7/10/2024 | D-3 | 12/21/2024 | D-41 | 3/10/2025 | D-11 |
| 7/15/2024 | VENICE | 12/21/2024 | S-33 | 3/19/2025 | F-25 |
| 7/15/2024 | T-14 | 10/30/2024 | VENICE | 3/19/2025 | D-15 |
| 7/17/2024 | D-9 | 10/30/2024 | fishladder | 3/20/2025 | rockrun |
| 7/17/2024 | D-15 | 11/6/2024 | D-3 | 3/27/2025 | T-14 |
| 7/24/2024 | rockrun | 11/6/2024 | D-5 | 3/27/2025 | D-07 |
| 7/25/2024 | state road | 11/7/2024 | T-14 | 3/28/2025 | FISH |
| 7/26/2024 | D-7 | 11/13/2024 | D-9 | 4/16/2025 | D-2 |
| 7/29/2024 | F-25 | 11/14/2024 | D-7 | 4/17/2025 | D-3 |
| 7/29/2024 | D-5 | 11/14/2024 | D-2 | 4/23/2025 | D-5 |
| 7/29/2024 | D-11 | 11/15/2024 | state road | 4/23/2025 | D-11 |
| 8/14/2024 | D-2 | 11/15/2024 | D-11 | 4 /23/2025 | D-07 |
| 8/14/2024 | D-3 | 11/15/2024 | D-15 | 4/28/2025 | F-25 |
| 8/15/2024 | D-9 | 11/19/2024 | F-25 | 4/28/2025 | D-15 |
| 8/15/2024 | D-11 | 11/25/2024 | rockrun | 4/28/2025 | D-9 |
| 8/16/2024 | D-15 | 11/25/2024 | VENICE | 4/30/2025 | rockrun |
| 8/16/2024 | F-25 | 11/26/2024 | fishladder | 5/01/2025 | FISH |
| 8/20/2024 | state road | 12/9/2024 | D-2 | 5/28/2025 | D-2 |
| 8/29/2024 | VENICE | 12/9/2024 | D-3 | 5/28/2025 | D-3 |
| 8/29/2024 | T-14 | 12/13/2024 | D-5 | 5/28/2025 | D-15 |
| 8/30/2024 | fishladder | 12/13/2024 | D-9 | 5/29/2025 | rockrun |
| 8/30/2024 | D-5 | 12/16/2024 | D-11 | 5/15/2025 | D-07 |
| 8/30/2024 | D-7 | 12/16/2024 | D-15 | 5/29/2025 | T-14 |
| 9/9/2024 | D-2 | 12/18/2024 | fishladder | 6/2/2025 | D-5 |
| 9/9/2024 | D-11 | 12/18/2024 | rockrun | 6/2/2025 | D-9 |
| 9/12/2024 | D-3 | 12/19/2024 | state road | 6/2/2025 | F-25 |
| 9/12/2024 | D-9 | 12/20/2024 | D-7 | 6 /11/2025 | D-07 |
| 9/13/2024 | D-15 | 12/20/2024 | F-25 | 6/23/2025 | D-2 |
| 9/13/2024 | F-25 | 1/8/2025 | D-5 | 6/23/2025 | D-3 |
| 9/13/2024 | state road | 1/9/2025 | D-2 | 6/25/2025 | rockrun |
| 9/16/2024 | VENICE | 1/9/2025 | D-3 | 6/26/2025 | D-11 |
| 9/18/2024 | D-5 | 1/10/2025 | T-14 | 6/26/2025 | D-15 |
| 9/20/2024 | T-14 | 1/13/2025 | D-9 | 6/30/2025 | FISH |
| 9/20/2024 | rockrun | 1/15/2025 | rockrun | 6/30/2025 | T-14 |
| 9/23/2024 | fishladder | 1/16/2025 | D-11 | | |
| 9/23/2024 | D-7 | 1/16/2025 | D-15 | | |
| 10/3/2024 | D-7 | 1/23/2025 | F-25 | | |
| 10/16/2024 | D-2 | 1/23/2025 | D-07 | | |
| 10/16/2024 | D-3 | 1/27/2025 | FISH | | |
| 10/16/2024 | D-5 | 2/5/2025 | D-2 | | |
| 10/16/2024 | D-9 | 2/5/2025 | D-3 | | |
| 10/17/2024 | D-11 | 2/10/2025 | D-5 | | |
| 10/17/2024 | D-15 | 2/19/2025 | D-11 | | |
| 10/16/2024 | D-2 | 2/19/2025 | D-15 | | |

## COMPUTER CONTROL CHAMBER PREVENTATIVE MAINTENANCE

| DATE | SITE | DATE | SITE | DATE | SITE |
|---|---|---|---|---|---|
| 7/8/2024 | fishladder | 11/14/2024 | D-2 | 3/20/2025 | rockrun |
| 7/10/2024 | D-2 | 11/15/2024 | state road | 3/27/2025 | T-14 |
| 7/10/2024 | D-3 | 11/15/2024 | D-11 | 3/27/2025 | D-07 |
| 7/10/2024 | D-3 | 11/15/2024 | D-15 | 3/28/2025 | STATE RD |
| 7/15/2024 | VENICE | 11/19/2024 | F-25 | 3/28/2025 | FISH |
| 7/15/2024 | T-14 | 11/25/2024 | rockrun | 4/16/2025 | D-2 |
| 7/17/2024 | D-9 | 11/25/2024 | VENICE | 4/17/2025 | D-3 |
| 7/17/2024 | D-15 | 11/26/2024 | fishladder | 4/21/2025 | VENICE |
| 7/24/2024 | rockrun | 12/9/2024 | D-2 | 4/23/2025 | D-5 |
| 7/25/2024 | state road | 12/9/2024 | D-3 | 4/23/2025 | D-11 |
| 7/26/2024 | D-7 | 12/11/2024 | VENICE | 4 /23/2025 | D-07 |
| 7/29/2024 | F-25 | 12/12/2024 | T-14 | 4/28/2025 | F-25 |
| 7/29/2024 | D-5 | 12/13/2024 | D-5 | 4/28/2025 | D-15 |
| 7/29/2024 | D-11 | 12/13/2024 | D-9 | 4/28/2025 | D-9 |
| 8/14/2024 | D-2 | 12/16/2024 | D-11 | 4/30/2025 | rockrun |
| 8/14/2024 | D-3 | 12/16/2024 | D-15 | 5/01/2025 | FISH |
| 8/15/2024 | D-9 | 12/18/2024 | fishladder | 5/15/2025 | D-07 |
| 8/15/2024 | D-11 | 12/18/2024 | rockrun | 5/28/2025 | D-2 |
| 8/16/2024 | D-15 | 12/19/2024 | state road | 5/28/2025 | D-3 |
| 8/16/2024 | F-25 | 12/20/2024 | D-7 | 5/28/2025 | D-11 |
| 9/12/2024 | D-3 | 12/20/2024 | F-25 | 5/28/2025 | D-15 |
| 9/12/2024 | D-9 | 3/7/2025 | D-3 | 6/23/2025 | D-2 |
| 9/13/2024 | D-15 | 3/7/2025 | D-5 | 6/23/2025 | D-3 |
| 9/13/2024 | F-25 | 1/10/2025 | T-14 | 6/25/2025 | rockrun |
| 9/13/2024 | state road | 1/13/2025 | D-9 | 6/26/2025 | D-11 |
| 9/16/2024 | VENICE | 1/15/2025 | D-11 | 6/26/2025 | D-15 |
| 9/18/2024 | D-5 | 1/16/2025 | D-5 | 6/30/2025 | VENICE |
| 9/20/2024 | T-14 | 1/16/2025 | D-9 | 6/30/2025 | FISH |
| 9/20/2024 | rockrun | 1/23/2025 | F-25 | 6/30/2025 | T-14 |
| 9/23/2024 | fishladder | 1/23/2025 | D-07 | | |
| 9/23/2024 | D-7 | 1/24/2025 | STATE RD | | |
| 10/3/2024 | D-7 | 1/27/2025 | FISH | | |
| 10/16/2024 | D-2 | 1/27/2025 | VENICE | | |
| 10/16/2024 | D-3 | 2/19/2025 | D-11 | | |
| 10/16/2024 | D-5 | 2/19/2025 | D-15 | | |
| 10/16/2024 | D-9 | 2/20/2025 | D-9 | | |
| 10/17/2024 | D-11 | 2/20/2025 | D-07 | | |
| 10/17/2024 | D-15 | 2/21/2025 | VENICE | | |
| 10/24/2024 | T-14 | 2/21/2025 | F-25 | | |

## CSO OUTFALL - DEBRIS GRILL MAINTENANCE

| DATE | SITE | DATE | SITE | DATE | SITE |
|---|---|---|---|---|---|
| 7/8/2024 | fishladder | 12/9/2024 | D-3 | 5/28/2025 | D-3 |
| 7/10/2024 | D-2 | 12/13/2024 | D-5 | 5/28/2025 | D-11 |
| 7/10/2024 | D-3 | 12/13/2024 | D-9 | 5/28/2025 | D-15 |
| 7/15/2024 | T-14 | 12/16/2024 | D-11 | 5/29/2025 | rockrun |
| 7/17/2024 | D-9 | 12/16/2024 | D-15 | 5/15/2025 | D-07 |
| 7/17/2024 | D-15 | 12/18/2024 | fishladder | 5/29/2025 | T-14 |
| 7/24/2024 | rockrun | 12/18/2024 | rockrun | 6/2/2025 | D-5 |
| 7/26/2024 | D-7 | 12/20/2024 | D-7 | 6/2/2025 | D-9 |
| 7/29/2024 | F-25 | 12/20/2024 | D-15 | 6/23/2025 | D-3 |
| 7/29/2024 | D-2 | 1/8/2025 | D-5 | 6/23/2025 | D-11 |
| 8/14/2024 | D-2 | 1/8/2025 | D-5 | 6 /11/2025 | D-07 |
| 8/14/2024 | D-3 | 1/9/2025 | D-2 | 6/25/2025 | rockrun |
| 8/15/2024 | D-9 | 1/9/2025 | D-3 | 6/26/2025 | D-11 |
| 8/15/2024 | D-11 | 1/10/2025 | T-14 | 6/26/2025 | D-15 |
| 8/16/2024 | D-15 | 1/13/2025 | D-9 | 6/30/2025 | FISH |
| 8/16/2024 | F-25 | 1/15/2025 | rockrun | 6/30/2025 | T-14 |
| 8/29/2024 | rockrun | 1/16/2025 | D-11 | | |
| 8/29/2024 | T-14 | 1/16/2025 | D-15 | | |
| 8/30/2024 | D-5 | 1/23/2025 | D-07 | | |
| 8/30/2024 | D-7 | 1/27/2025 | FISH | | |
| 9/9/2024 | D-2 | 2/5/2025 | D-2 | | |
| 9/9/2024 | D-11 | 2/5/2025 | D-3 | | |
| 9/12/2024 | D-3 | 2/10/2025 | D-5 | | |
| 9/12/2024 | D-9 | 2/19/2025 | D-11 | | |
| 9/13/2024 | D-15 | 2/19/2025 | D-15 | | |
| 9/13/2024 | F-25 | 2/20/2025 | D-9 | | |
| 9/18/2024 | D-5 | 2/20/2025 | D-07 | | |
| 9/20/2024 | T-14 | 2/21/2025 | D-3 | | |
| 9/20/2024 | rockrun | 2/21/2025 | F-25 | | |
| 9/23/2024 | fishladder | 2/21/2025 | rockrun | | |
| 9/23/2024 | D-7 | 2/24/2025 | T-14 | | |
| 10/3/2024 | D-7 | 2/24/2025 | FISH | | |
| 10/16/2024 | D-2 | 3/5/2025 | D-2 | | |
| 10/16/2024 | D-3 | 3/7/2025 | D-3 | | |
| 10/16/2024 | D-5 | 3/7/2025 | D-5 | | |
| 10/16/2024 | D-9 | 3/10/2025 | D-9 | | |
| 10/17/2024 | D-11 | 3/10/2025 | D-11 | | |
| 10/17/2024 | D-15 | 3/19/2025 | F-25 | | |
| 10/24/2024 | T-14 | 3/19/2025 | D-15 | | |
| 10/28/2024 | F-25 | 3/20/2025 | rockrun | | |
| 10/28/2024 | rockrun | 3/27/2025 | T-14 | | |
| 10/30/2024 | fishladder | 3/27/2025 | D-07 | | |
| 11/6/2024 | D-3 | 3/28/2025 | FISH | | |
| 11/6/2024 | D-5 | 4/16/2025 | D-2 | | |
| 11/7/2024 | T-14 | 4/17/2025 | D-3 | | |

# Sewer Assessment Program CCTV Inspection Report

## CCTV MILEAGE

| | Jul-24 | Aug-24 | Sep-24 | Oct-24 | Nov-24 | Dec-24 | Jan-25 | Feb-25 | Mar-25 | Apr-25 | May-25 | Jun-25 | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Green** | 1.14 | 0.37 | 1.01 | 2.17 | 1.58 | 2.70 | 6.81 | 2.96 | 2.82 | 1.31 | 2.23 | 0.88 | 25.95 |
| **Sewer** | 2.23 | 2.45 | 3.39 | 6.13 | 3.94 | 3.07 | 3.59 | 5.65 | 8.32 | 8.07 | 6.94 | 4.16 | 57.95 |
| **TOTALS** | 3.36 | 2.82 | 4.41 | 8.30 | 5.52 | 5.77 | 10.39 | 8.61 | 11.14 | 9.39 | 9.17 | 5.04 | 83.90 |

## CCTV INSPECTIONS

| | Jul-24 | Aug-24 | Sep-24 | Oct-24 | Nov-24 | Dec-24 | Jan-25 | Feb-25 | Mar-25 | Apr-25 | May-25 | Jun-25 | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Green** | 117 | 27 | 85 | 239 | 143 | 247 | 730 | 298 | 281 | 124 | 213 | 96 | 2600 |
| **Sewer** | 96 | 130 | 136 | 202 | 128 | 118 | 139 | 209 | 307 | 333 | 291 | 169 | 2258 |
| **TOTALS** | 213 | 157 | 221 | 441 | 271 | 365 | 869 | 507 | 588 | 457 | 504 | 265 | 4858 |

## FLOW CONTROL MISSION STATEMENT

The mission of the Flow Control Unit is to ensure environmental stewardship and public wellbeing in accordance with Federal and State laws, administrative rules and operating permits by means of state-of-the-art technologies to monitor, inspect, operate, and maintain the Collector System's CSO Regulating System, Wastewater and Storm Water Pumping Stations, Wastewater Metering Sites and Storage Facilities, and the Sewer Assessment Program through CCTV inspections.

# Flow Control

FLOW CONTROL HQ FOX STREET — 2 PERSONNEL

★ Approved Out of Class

| FLOW CONTROL ADDRESSES | | |
|---|---|---|
| FLOW CONTROL HEADQUARTERS | 3257 FOX STREET PHILADELPHIA PA 19129 | |
| FLOW CONTROL-CSO/CCTV | 3257 FOX STREET PHILADELPHIA PA 19129 | |
| FLOW CONTROL-WWP | 5202 PENNYPACK STREET PHILADELPHIA PA 19136 | |
| FLOW CONTROL SUPT. AND ASSIST SUPT. OFFICE PHONE NUMBERS AND EMAIL | | |
| MICHAEL HENGSTLER | 215-685-2004 | michael.hengstler@phila.gov |
| BRUCE FASSETT-CSO/CCTV | 215-685-2064 | bruce.fassett@phila.gov |
| ANTHONY MARCHINO III-WWP | 215-685-8089 | anthony.marchino@phila.gov |

**As of JULY 22, 2025**

- MICHAEL D. HENGSTLER — WCSS 7B07 — 207684 (D)
- SHARON SANDERS — Clerk 3 1A04 — 248638 (D)

- JENNIFER GALVIS — OFFICE CLERK 2 — 1A03 — 304702
- ANTHONY MARCHINO ★ WCSS — WCSAS 7B06 — 204967 — 2

### WWP-ELECTRICAL UNIT — 7

- THOMAS WHITFIELD (D) — Ind. Elect. Grp. Ldr. 7K18 — 187443
- MICHAEL MAZZONI ★ — Industrial Electrician 2 7K17 — 260348
- IBRAHIMA DIOP ★ — Industrial Electrician 1 7K16 — 298495
- JOHN LUDWIG ★ — Industrial Electrician 1 7K16 — 294869
- DAVID O'LEARY — Electrician 2 7K02 — 301307
- SEAN LANGDON — Electrician 2 7K02 — 301355
- JAYVON RHETT — Electrician 1 — 311668

### WWP-MECHANICAL UNIT — 14

- ANILKUMAR SINGH — Ind. Proc. Mech. Grp.Ldr. 7J35 — 294571
- GREGORY BROWN — Ind. Proc. Mech. Mech. 7J34 — 283580
- GEORGE DUNSON — Ind. Proc. Mech. Mech. 7J34 — 237694
- CHRISTOPHER SINKO — Mach. Equip. Mech. 1 7J14 — 237589
- MELVIN MAYS — Trades Helper 7H01 — 303939
- VACANT — Mach. Equip. Mech. 1 7J14
- VACANT — Mach. Equip. Mech. 1 7J14
- JASON SAUERWALD — Ind. Proc. Mech. Mech. 7J34 — 299961
- JEFFERY BEMISS — Ind. Proc. Mech. Mech. 7J34 — 259501
- VACANT — Ind. Proc. Mach. Mech. 7J34
- VACANT — Mach. Equip. Mech. 1 7J14
- VACANT — Ind. Proc. Mech. Mech. 7J34
- VACANT — Heavy Equipment Op. 2 7C14 — New Position

### CSO-MECH. MAINTENANCE UNIT — 7

- JOSE APONTE — Ind. Proc. Mech. Grp.Ldr. 7J35 — 228909
- BRIAN GLASS — Ind. Proc. Mach. Mech. 7J34 — 283844
- TIM BAMBERSKI — Ind. Proc. Mach. Mech. 7J34 — 272992
- EDWIN RUIZ — Mach. Equip. Mech. 2 7J15 — 267719
- JAMES RICE — Mach. Equip. Mech. 1 7J14 — 281620
- VACANT — Ind. Proc. Mech. Mech. 7J34
- VACANT — Mach. Equip. Mech. 1 7J14

### WWP-ELECTRONIC UNIT — 10

- MICHAEL HORGER ★ WCSAS — Elec. Tech GL 7K68 — 231497
- WILLIAM CLOMAN ★ ETGL — Electronic Tech 2 7K64 — 272456
- DORIAN RRAPUSHAJ ★ ETGL — Electronic Tech 2 7K64 — 296698
- MICHAEL JONES — Electronic Tech 2 7K64 — 263649
- DONNELL GREEN — Electronic Tech Trn 7K81 — 252092
- ROY GORDON — Electronic Tech 2 7K64 — 272760
- MUKHTAAR LEWIS — Electronic Tech 2 7K64 — 275143
- ANTHONY DORWART — Electronic Tech 2 7K64 — 301940
- KONSTANTINOS ANDRIOPOULOS — Electronic Tech Trn 7K81 — 309378

VACANT — Electronic Tech Trn 7K81 to WORH 7B01 ★

### CSO-INTERCEPTOR WWP UNIT — 9

- JOSEPH GLINKOWSKI — Interceptor Serv. Supv. 7B43 — 268510
- MICHAEL TUCKER — Int. Srv. Wkr. 2 7B41 — 300322
- MICHAEL MALLORY — Int. Srv. Wkr. 2 7B41 — 292406
- HERBERT SPEARMAN — WORHelper 7B01 — 312463
- DONTE ROLLINS — WORHelper 7B01 — 249233
- STEAVEN MILLER — WORHelper 7B01 — 317716
- NORMAN BROWN — WORHelper 7B01
- VACANT — Int. Srv. Wkr. 1 7B40
- VACANT — Int. Srv. Wkr. 2 7B41

**48 PERSONNEL***

★ Out of Class Relief
★ Change of trade

## FLOW CONTROL WASTEWATER PUMPING- PENNYPACK STREET

| | |
|---|---|
| FLOW CONTROL-APPROVED POSITIONS | 99 |
| FLOW CONTROL-FILLED POSITIONS | 80 |
| FLOW CONTROL-VACANT POSITIONS | 19 |
| FLOW CONTROL-FMLA/LOA/Other | 0 |
| FLOW CONTROL-IOD/Restrict | 0 |
| FLOW CONTROL-Active Employees | 80 |
| FLOW CONTROL-PENDING | 0 |

Pending Hire/ Promotion | PENDING DISCIPLINE | UpSkill | Restrictions/ Limited Duty IOD | Leave of Absence

| | |
|---|---|
| VACANCY % | 19.2% |
| ACTIVE % | 80.8% |
| FILLED % | 80.8% |

D.R.O.P Count: 5

**Flow Control D.R.O.P. Employees**

| NAME | GROUP | DROP DATE |
|---|---|---|
| Kevin Hampton | FOX-SMI | 05/22/2026 |
| Michael Hengstler | WCSS | 04/10/2027 |
| Thomas Whitfield | IEGL | 06/19/2028 |
| Sharon Sanders | Clerk 3 | 07/01/2028 |
| Francis Francesco | ETSupv | 02/10/2029 |

- NAUTICA VAZQUEZ-DAVIS — Clerk 3 1A04 — 306624
- BRUCE FASSETT ★ WCSS — WCSAS 7B06 — 222975
- KINARD KIMBROUGH — DSS Clerk 1D41 — 256433 — 4
- LISA GLADDEN — Custodial Worker 1 7D11 — 307935

### CSO-INTERCEPTOR UNIT — 11

- LAFAYETTE FANNING — Interceptor Serv. Supv. 7B43 — 244062
- STAISEY YOUNG — Int. Srv. Wkr. 2 7B41 — 293503
- KEITH SMITH — Int. Srv. Wkr. 2 7B41 — 239642
- ARTHUR BOWSER — Int. Srv. Wkr. 2 7B41 — 285600
- RASHAD WADE — WORHelper 7B01 — 305943
- STEVEN COOK — Int. Srv. Wkr. 1 7B40 — 305472
- TOMMY JOHNSON — Int. Srv. Wkr. 1 7B40 — 301871
- JOSHUA WILSON — WORHelper 7B01 — 307297
- SHEENA OWENS — WORHelper 7B01 — 303347
- CHRISTOPHER BALSIROW — WORHelper 7B01 — 314940
- VACANT — WORHelper 7B01

### CSO-INSTRUMENTATION UNIT — 13

- SEAN KELLY — Electronic Equip. Supv. 7K67 — 291790
- RUSSELL COLEMAN — Elec. Tech GL 7K68 — 232007
- RONALD BETHEA — Elec. Tech GL 7K68 — 289607
- ERIC STEVENS — Electronic Tech 2 7K64 — 227370
- BEVERLY GODWIN — Electronic Tech 2 7K64 — 261139
- RHAFIQ JACKSON — Electronic Tech 2 7K64 — 288154
- STEVEN SCOTT — Electronic Tech 2 7K64 — 285347
- MIKHAIL SMITH — Electronic Tech Trn 7K81 — 308306
- LAPHAEL FANNING — Electronic Tech 2 7K64 — 283241
- VACANT — Electronic Tech 2 7K64
- KEENAN LOVELACE-MADDY — Electronic Tech 1 7K63 — 299159
- VACANT — Electronic Tech Trn 7K81
- STEVEN ROSS — Semi-Skilled 7A03 — 230630

### CCTV INSPECTION UNIT — 21

CCTV INSPECTION EAST GROUP | CCTV INSPECTION WEST GROUP

- FRANK FRANCESCO — Electronic Equip. Supv. 7K67 — 224195
- YUDI KO — Elec. Tech GL 7K68 — 257121
- GLENN BLAYLOCK — Elec. Tech GL 7K68 — 282443
- VINCENT MAZZUCA — Electronic Tech 2 7K64 — 230037
- LEONIDAS TAVERAS — Electronic Tech 2 7K64 — 304231
- AMR ABOZEID — Electronic Tech 1 7K63
- PATRICE CUNNINGHAM — Sewer Maint. Inspector 7B21 — 310513
- VACANT — Electronic Tech Trn 7K81
- MARK ROBINSON — Electronic Tech Trn 7K81 — 293973
- DAVID MITCHELL — Electronic Tech 2 7K64 — 279901
- VACANT — Electronic Tech Trn 7K81
- VACANT — Electronic Tech Trn 7K81
- DAVIDE PAYNE — Electronic Tech 2 7K64 — 260967
- KAREEM BROWNE-SANDS — Electronic Tech Trn 7K81 — 315443
- VACANT — Electronic Tech 1 7K63
- VACANT — Electronic Tech 1 7K63
- DARYL JONES — Electronic Tech 2 7K64 — 281266 ★
- KHALIL JONES-SMITH — Electronic Tech Trn 7K81 — 309143
- SAMUEL REDDING — Electronic Tech Trn 7K81 — 309880
- KEVIN HAMPTON (D) — Sewer Maint. Inspector 7B21 — 260313 ★
- DESEAN WHITE — Electronic Tech 1 7K63

**49 PERSONNEL**

## FLOW CONTROL CSO/CCTV GROUP-FOX STREET

**OFFICE STAFF**

| | | |
|---|---|---|
| FC PROCUREMENT CLERK/PAYROLL CLERK | SHARON SANDERS | sharon.c.sanders@phila.gov |
| FOX STREET PAYROLL CLERK/CSO-MECH DATA ENTRY | NAUTICA VAZQUEZ-DAVIS | nautica.davis@phila.gov |
| WWP PAYROLL CLERK/WWP DATA ENTRY | JENNIFER GALVIS | jennifer.galvis@phila.gov |
| CSE PAYROLL CLERK/CSO-INSTR DATA ENTRY | KINARD KIMBROUGH | kinard.kimbrough@phila.gov |

PHILADELPHIA WATER DEPARTMENT

# Appendix D – NPDES Annual CSO Report Status FY25

# APPENDIX D –
# NPDES ANNUAL CSO STATUS REPORT FY 2025

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**Table 1 - Listing of all CSO permitted outfalls**

| Point Source # | Outfall Latitude | Outfall Longitude | Regulator Location | Discharges to: | Interceptor | Outfall Name |
|---|---|---|---|---|---|---|
| **NPDES Permit #0026689 - Northeast** | | | | | | |
| 2 | 39d 58m 50s | 75d 4m 58s | Castor Ave. and Balfour St. | Delaware River | Somerset | D_17 |
| 3 | 39d 58m 45s | 75d 5m 6s | Venango St. NW of Casper St. | Delaware River | Somerset | D_18 |
| 4 | 39d 58m 41s | 75d 5m 15s | Tioga St. NW of Casper St. | Delaware River | Somerset | D_19 |
| 5 | 39d 58m 43s | 75d 5m 28s | Ontario St. NW of Casper St. | Delaware River | Somerset | D_20 |
| 6 | 39d 58m 44s | 75d 5m 41s | Westmoreland St. NW of Balfour St. | Delaware River | Somerset | D_21 |
| 7 | 39d 58m 42s | 75d 5m 53s | Allegheny Ave. SE of Bath St. | Delaware River | Somerset | D_22 |
| 8 | 39d 58m 38s | 75d 6m 12s | Indiana Ave. SE of Allen St. | Delaware River | Somerset | D_23 |
| 10 | 39d 58m 38s | 75d 6m 28s | Cambria St. E of Melvale St. | Delaware River | Somerset | D_25 |
| 11 | 40d 1m 18s | 75d 1m 44s | Cottman St. SE of Milnor St. | Delaware River | Upper Delaware Low Level | D_02 |
| 12 | 40d 1m 14s | 75d 2m 0s | Princeton Ave SE of Milnor St. | Delaware River | Upper Delaware Low Level | D_03 |
| 13 | 40d 1m 8s | 75d 2m 13s | Disston St. SE of Wissinoming St. | Delaware River | Upper Delaware Low Level | D_04 |
| 14 | 40d 0m 58s | 75d 2m 34s | Magee St. SE of Milnor St. | Delaware River | Upper Delaware Low Level | D_05 |
| 15 | 40d 0m 53s | 75d 2m 46s | Levick St. SE of Milnor St. | Delaware River | Upper Delaware Low Level | D_06 |
| 16 | 40d 0m 44s | 75d 3m 5s | Lardner St. SE of Milnor St. | Delaware River | Upper Delaware Low Level | D_07 |
| 17 | 40d 0m 38s | 75d 3m 13s | Comly St. SE of Milnor St. | Delaware River | Upper Delaware Low Level | D_08 |
| 18 | 40d 0m 34s | 75d 3m 18s | Dark Run La and Milnor St. | Delaware River | Upper Delaware Low Level | D_09 |
| 19 | 40d 0m 21s | 75d 3m 28s | Sanger St. SE of Milnor St. | Delaware River | Upper Delaware Low Level | D_11 |
| 20 | 40d 0m 2s | 75d 3m 43s | Bridge St. Se of Garden St. | Delaware River | Upper Delaware Low Level | D_12 |

| Point Source # | Outfall Latitude | Outfall Longitude | Regulator Location | Discharges to: | Interceptor | Outfall Name |
|---|---|---|---|---|---|---|
| 21 | 39d 59m 53s | 75d 3m 47s | Kirkbride St. and Delaware Ave. | Delaware River | Upper Delaware Low Level | D_13 |
| 22 | 39d 59m 24s | 75d 4m 4s | Orthodox St. and Delaware Ave. | Delaware River | Upper Delaware Low Level | D_15 |
| 23 | 40d 2m 36s | 75d 1m 15s | Frankford Avenue & Ashburner Street | Pennypack Creek | Pennypack | P_01 |
| 24 | 40d 2m 36s | 75d 1m 16s | Frankford Avenue & Holmesburg St. | Pennypack Creek | Pennypack | P_02 |
| 25 | 40d 2m 13s | 75d 1m 19s | Torresdale Ave. NW of Pennypack Ck. | Pennypack Creek | Pennypack | P_03 |
| 26 | 40d 2m 23s | 75d 1m 21s | Cottage Avenue & Holmesburg Avenue | Pennypack Creek | Pennypack | P_04 |
| 27 | 40d 2m 2s | 75d 1m 21s | Holmesburg Ave SE of Hegerman St | Pennypack Creek | Pennypack | P_05 |
| 28 | 40d 4m 34s | 75d 9m 44s | Williams Avenue SE of Sedgewick | Tacony Creek | Frankford High Level | T_01 |
| 29 | 40d 2m 28s | 75d 6m 56s | Complost Ave West of Tacony Creek | Tacony Creek | Frankford High Level | T_03 |
| 30 | 40d 2m 11s | 75d 6m 48s | Rising Sun Ave East of Tacony Creek | Tacony Creek | Frankford High Level | T_04 |
| 31 | 40d 2m 9s | 75d 6m 48s | Rising Sun Ave West of Tacony Creek | Tacony Creek | Frankford High Level | T_05 |
| 32 | 40d 2m 3s | 75d 6m 41s | Bingham Street East of Tacony Creek | Tacony Creek | Frankford High Level | T_06 |
| 33 | 40d 1m 51s | 75d 6m 43s | Tabor Road West of Tacony Creek | Tacony Creek | Frankford High Level | T_07 |
| 34 | 40d 1m 42s | 75d 6m 47s | Ashdale Street West of Tacony Creek | Tacony Creek | Frankford High Level | T_08 |
| 35 | 40d 1m 37s | 75d 6m 48s | Roosevelt Blvd. West of Tacony Creek | Tacony Creek | Frankford High Level | T_09 |
| 36 | 40d 1m 37s | 75d 6m 47s | Roosevelt Blvd. East of Tacony Creek | Tacony Creek | Frankford High Level | T_10 |

| Point Source # | Outfall Latitude | Outfall Longitude | Regulator Location | Discharges to: | Interceptor | Outfall Name |
|---|---|---|---|---|---|---|
| 37 | 40d 1m 29s | 75d 6m 43s | Ruscomb Street East of Tacony Creek | Tacony Creek | Frankford High Level | T_11 |
| 38 | 40d 1m 23s | 75d 6m 41s | Whitaker Avenue East of Tacony Creek | Tacony Creek | Frankford High Level | T_12 |
| 39 | 40d 1m 22s | 75d 6m 42s | Whitaker Avenue West of Tacony Ck | Tacony Creek | Frankford High Level | T_13 |
| 40 | 40d 0m 59s | 75d 6m 28s | I Street & Ramona Ave. | Tacony Creek | Frankford High Level | T_14 |
| 41 | 40d 0m 57s | 75d 6m 20s | J Street & Juniata Park | Tacony Creek | Frankford High Level | T_15 |
| 42 | 40d 0m 57s | 75d 5m 51s | Castor Avenue at Unity Street Circle | Frankford Creek | Upper Frankford Low Level | F_03 |
| 43 | 40d 0m 52s | 75d 5m 42s | Wingohocking St East of Adams Ave | Frankford Creek | Upper Frankford Low Level | F_04 |
| 44 | 40d 0m 41s | 75d 5m 41s | Bristol Street West of Adams Avenue | Frankford Creek | Upper Frankford Low Level | F_05 |
| 45 | 40d 0m 25s | 75d 5m 33s | Worrel Street East of Frankford Creek | Frankford Creek | Upper Frankford Low Level | F_06 |
| 46 | 40d 0m 26s | 75d 5m 34s | Worrel Street West of Frankford Creek | Frankford Creek | Upper Frankford Low Level | F_07 |
| 47 | 40d 0m 21s | 75d 5m 36s | Torresdale Ave & Hunting Park Ave | Frankford Creek | Upper Frankford Low Level | F_08 |
| 48 | 40d 0m 19s | 75d 5m 34s | Frankford Ave North of Frankford Ck | Frankford Creek | Upper Frankford Low Level | F_09 |
| 49 | 40d 0m 19s | 75d 5m 35s | Frankford Ave South of Frankford Ck | Frankford Creek | Upper Frankford Low Level | F_10 |
| 50 | 40d 0m 15s | 75d 5m 26s | Orchard Street South of Vandyke Creek | Frankford Creek | Upper Frankford Low Level | F_11 |
| 51 | 39d 59m 56s | 75d 5m 14s | Sepviva Street North of Butler Street | Frankford Creek | Upper Frankford Low Level | F_12 |
| 52 | 39d 59m 49s | 75d 5m 3s | Duncan Street Under Delaware Exp. | Frankford Creek | Lower Frankford Low Level | F_13 |

| Point Source # | Outfall Latitude | Outfall Longitude | Regulator Location | Discharges to: | Interceptor | Outfall Name |
|---|---|---|---|---|---|---|
| 54 | 40d 0m 16s | 75d 4m 15s | Wakeling Street NW of Creek Basin | Frankford Creek | Lower Frankford Low Level | F_21 |
| 55 | 40d 0m 19s | 75d 4m 5s | Bridge Street NW of Creek Basin | Frankford Creek | Lower Frankford Low Level | F_23 |
| 56 | 40d 0m 18s | 75d 4m 5s | Bridge Street SE of Creek Basin | Frankford Creek | Lower Frankford Low Level | F_24 |
| 57 | 40d 0m 15s | 75d 4m 15s | Ash Street West of Creek Basin | Frankford Creek | Lower Frankford Low Level | F_25 |
| 58 | 40d 0m 30s | 75d 3m 20s | Levick St. & Everett Ave. | Delaware River | Wakling Relief Sewer | D_FRW |
| 59 | 40d 2m 16s | 75d 6m 53s | Nedro Ave & 7th St. | Tacony Creek | Rock Run Flood Relief Sewer | T_FRRR |
| 60 | 40d 0m 36s | 75d 5m 44s | Castor Ave. & East Hunting Park Ave. | Frankford Creek | Frankford High Level Relief Sewer | F_FRFG |
| **NPDES Permit # 0026662 – Southeast** | | | | | | |
| 2 | 39d 58m 9s | 75d 7m 19s | Dyott Street & Delaware Ave. | Delaware River | Lower Delaware Low Level | D_38 |
| 3 | 39d 58m 7s | 75d 7m 23s | Susquehanna Ave. East of Beach Street | Delaware River | Lower Delaware Low Level | D_39 |
| 4 | 39d 58m 5s | 75d 7m 26s | Berks Street East of Beach Street | Delaware River | Lower Delaware Low Level | D_40 |
| 5 | 39d 58m 3s | 75d 7m 37s | Palmer Street East of Beach Street | Delaware River | Lower Delaware Low Level | D_41 |
| 6 | 39d 57m 54s | 75d 7m 42s | Columbia Avenue East of Beach Street | Delaware River | Lower Delaware Low Level | D_42 |
| 7 | 39d 57m 56s | 75d 7m 48s | Marlborough Street & Delaware Ave | Delaware River | Lower Delaware Low Level | D_43 |
| 8 | 39d 57m 53s | 75d 7m 54s | Shackamaxon St East of Delaware Ave | Delaware River | Lower Delaware Low Level | D_44 |
| 9 | 39d 57m 48s | 75d 8m 0s | Laurel Street & Delaware Avenue | Delaware River | Lower Delaware Low Level | D_45 |

| Point Source # | Outfall Latitude | Outfall Longitude | Regulator Location | Discharges to: | Interceptor | Outfall Name |
|---|---|---|---|---|---|---|
| 10 | 39d 57m 41s | 75d 8m 11s | Penn Street & Delaware Avenue | Delaware River | Lower Delaware Low Level | D_46 |
| 11 | 39d 57m 37s | 75d 8m 9s | Fairmont Ave West of Delaware Ave | Delaware River | Lower Delaware Low Level | D_47 |
| 12 | 39d 57m 28s | 75d 8m 13s | Willow Street West of Delaware Ave | Delaware River | Lower Delaware Low Level | D_48 |
| 13 | 39d 57m 24s | 75d 8m 20s | Callowhill Street & Delaware Avenue | Delaware River | Lower Delaware Low Level | D_49 |
| 14 | 39d 57m 21s | 75d 8m 13s | Delaware Avenue North of Vine Street | Delaware River | Lower Delaware Low Level | D_50 |
| 15 | 39d 57m 11s | 75d 8m 17s | Race Street West of Delaware Avenue | Delaware River | Lower Delaware Low Level | D_51 |
| 16 | 39d 57m 7s | 75d 8m 25s | Delaware Avenue & Arch Street | Delaware River | Lower Delaware Low Level | D_52 |
| 17 | 39d 56m 57s | 75d 8m 23s | Market Street & Front Street | Delaware River | Lower Delaware Low Level | D_53 |
| 20 | 39d 56m 50s | 75d 8m 24s | Front Street South of Chestnut Street | Delaware River | Lower Delaware Low Level | D_54 |
| 21 | 39d 56m 26s | 75d 8m 32s | South Street & Delaware Avenue | Delaware River | Lower Delaware Low Level | D_58 |
| 22 | 39d 56m 12s | 75d 8m 33s | Catharine Street East of Swanson Street | Delaware River | Lower Delaware Low Level | D_61 |
| 23 | 39d 56m 10s | 75d 8m 32s | Queen Street East of Swanson Street | Delaware River | Lower Delaware Low Level | D_62 |
| 24 | 39d 56m 5s | 75d 8m 33s | Christian St West of Delaware Avenue | Delaware River | Lower Delaware Low Level | D_63 |
| 25 | 39d 55m 59s | 75d 8m 35s | Washington Ave East of Delaware Ave | Delaware River | Lower Delaware Low Level | D_64 |
| 26 | 39d 55m 45s | 75d 8m 29s | Reed Street East of Delaware Avenue | Delaware River | Lower Delaware Low Level | D_65 |

| Point Source # | Outfall Latitude | Outfall Longitude | Regulator Location | Discharges to: | Interceptor | Outfall Name |
|---|---|---|---|---|---|---|
| 27 | 39d 55m 37s | 75d 8m 28s | Tasker Street East of Delaware Avenue | Delaware River | Lower Delaware Low Level | D_66 |
| 28 | 39d 55m 26s | 75d 8m 21s | Moore Street East of Delaware Avenue | Delaware River | Lower Delaware Low Level | D_67 |
| 33 | 39d 54m 6s | 75d 8m 12s | Pattison Avenue & Swanson Street | Delaware River | Lower Delaware Low Level | D_73 |
| 36 | 39d 58m 21s | 75d 6m 58s | Cumberland St East of Richmond St | Delaware River | Lower Delaware Low Level | D_37 |
| 37 | 39d 57m 12s | 75d 8m 24s | Race Street West of Delaware Avenue, North of D-51 | Delaware River | Lower Delaware Low Level | D_51A |
| 29 | 39d 55m 13s | 75d 8m 20s | Snyder Avenue & Delaware Avenue | Delaware River | Oregon | D_68 |
| 30 | 39d 54m 60s | 75d 8m 13s | Delaware Ave North of Porter Street | Delaware River | Oregon | D_69 |
| 31 | 39d 54m 44s | 75d 8m 15s | Oregon Avenue & Delaware Avenue | Delaware River | Oregon | D_70 |
| 32 | 39d 54m 33s | 75d 7m 59s | Bigler Street & Delaware Avenue | Delaware River | Oregon | D_71 |
| 34 | 39d 54m 24s | 75d 8m 8s | Packer Avenue East of Delaware Ave | Delaware River | Oregon | D_72 |
| **NPDES Permit # 0026671 - Southwest** | | | | | | |
| 2 | 39d 56m 17s | 75d 12m 17s | Reed Street & Schuylkill Avenue | Schuylkill River | Lower Schuylkill East Side | S_31 |
| 3 | 39d 55m 54s | 75d 12m 28s | 35th St. and Mifflin St. | Schuylkill River | Lower Schuylkill East Side | S_36A |
| 4 | 39d 55m 41s | 75d 12m 38s | Vare Avenue & 29th Street | Schuylkill River | Lower Schuylkill East Side | S_37 |
| 5 | 39d 55m 12s | 75d 12m 5s | Passyunk Avenue & 29th Street | Schuylkill River | Lower Schuylkill East Side | S_42 |
| 6 | 39d 55m 12s | 75d 12m 5s | Passyunk Avenue & 28th Street | Schuylkill River | Lower Schuylkill East Side | S_42A |

| Point Source # | Outfall Latitude | Outfall Longitude | Regulator Location | Discharges to: | Interceptor | Outfall Name |
|---|---|---|---|---|---|---|
| 7 | 39d 54m 57s | 75d 12m 16s | 26th Street 700′ North of Hartranft St | Schuylkill River | Lower Schuylkill East Side | S_44 |
| 8 | 39d 53m 53s | 75d 12m 39s | Penrose Avenue & 26th Street | Schuylkill River | Lower Schuylkill East Side | S_46 |
| 9 | 39d 57m 38s | 75d 10m 50s | 24th Street 155′ South of Parktown Pl | Schuylkill River | Central Schuylkill East Side | S_05 |
| 10 | 39d 57m 39s | 75d 10m 49s | 24th Street 350′ South of Parktown Pl | Schuylkill River | Central Schuylkill East Side | S_06 |
| 11 | 39d 57m 39s | 75d 10m 50s | 24th Street East of Schuylkill River | Schuylkill River | Central Schuylkill East Side | S_07 |
| 12 | 39d 57m 29s | 75d 10m 43s | Race Street & Bonsall Street | Schuylkill River | Central Schuylkill East Side | S_08 |
| 13 | 39d 57m 30s | 75d 10m 45s | Arch Street West of 23rd Street | Schuylkill River | Central Schuylkill East Side | S_09 |
| 14 | 39d 57m 16s | 75d 10m 49s | Market Street 25′ East of 24th Street | Schuylkill River | Central Schuylkill East Side | S_10 |
| 15 | 39d 57m 11s | 75d 10m 51s | 24th St. N of Chestnut St. Bridge | Schuylkill River | Central Schuylkill East Side | S_12A |
| 16 | 39d 57m 7s | 75d 10m 52s | Sansom Street West of 24th Street | Schuylkill River | Central Schuylkill East Side | S_13 |
| 17 | 39d 57m 5s | 75d 10m 53s | Walnut Street West of 24th Street | Schuylkill River | Central Schuylkill East Side | S_15 |
| 18 | 39d 57m 1s | 75d 10m 56s | Locust Street & 25th Street | Schuylkill River | Central Schuylkill East Side | S_16 |
| 19 | 39d 56m 57s | 75d 11m 0s | Spruce Street & 25th Street | Schuylkill River | Central Schuylkill East Side | S_17 |
| 20 | 39d 56m 52s | 75d 11m 5s | Pine Street West of Taney Street | Schuylkill River | Central Schuylkill East Side | S_18 |
| 21 | 39d 56m 49s | 75d 11m 9s | Lombard Street West of 27th Street | Schuylkill River | Central Schuylkill East Side | S_19 |

| Point Source # | Outfall Latitude | Outfall Longitude | Regulator Location | Discharges to: | Interceptor | Outfall Name |
|---|---|---|---|---|---|---|
| 22 | 39d 56m 47s | 75d 11m 12s | South Street East of 27th Street | Schuylkill River | Central Schuylkill East Side | S_21 |
| 23 | 39d 56m 44s | 75d 11m 18s | Schuylkill Avenue & Bainbridge Street | Schuylkill River | Central Schuylkill East Side | S_23 |
| 24 | 39d 56m 34s | 75d 11m 28s | Schuylkill Avenue & Christian Street | Schuylkill River | Central Schuylkill East Side | S_25 |
| 25 | 39d 56m 29s | 75d 11m 35s | Ellsworth St West of Schuylkill Avenue | Schuylkill River | Central Schuylkill East Side | S_26 |
| 26 | 39d 58m 1s | 75d 11m 17s | Mantua Avenue & West River Drive | Schuylkill River | Central Schuylkill West Side | S_01 |
| 27 | 39d 57m 54s | 75d 11m 7s | Haverford Avenue & West River Drive | Schuylkill River | Central Schuylkill West Side | S_02 |
| 28 | 39d 57m 51s | 75d 11m 4s | Spring Garden St W of Schuylkill Expy | Schuylkill River | Central Schuylkill West Side | S_03 |
| 29 | 39d 57m 53s | 75d 11m 4s | Powelton Ave W of Schuylkill Expy | Schuylkill River | Central Schuylkill West Side | S_04 |
| 30 | 39d 57m 16s | 75d 10m 53s | Market St West of Schuylkill Expy | Schuylkill River | Central Schuylkill West Side | S_11 |
| 31 | 39d 57m 5s | 75d 10m 58s | Schuylkill Expressway & Walnut Street | Schuylkill River | Central Schuylkill West Side | S_14 |
| 32 | 39d 56m 51s | 75d 11m 14s | 440′ Northwest of South Street | Schuylkill River | Central Schuylkill West Side | S_20 |
| 33 | 39d 56m 46s | 75d 11m 22s | 660′ South of South St E of Pennfield | Schuylkill River | Central Schuylkill West Side | S_22 |
| 34 | 39d 56m 43s | 75d 11m 26s | 1060′ South of South St E of Pennfield | Schuylkill River | Central Schuylkill West Side | S_24 |
| 35 | 39d 56m 32s | 75d 12m 27s | 46th Street & Paschall Avenue | Schuylkill River | Southwest Main Gravity | S_30 |
| 36 | 39d 56m 36s | 75d 12m 18s | 43rd St. and Locust St. | Schuylkill River | Southwest Main Gravity | S_50 |

| Point Source # | Outfall Latitude | Outfall Longitude | Regulator Location | Discharges to: | Interceptor | Outfall Name |
|---|---|---|---|---|---|---|
| 37 | 39d 56m 13s | 75d 12m 23s | 49th Street South of Botanic Street | Schuylkill River | Lower Schuylkill West Side | S_32 |
| 38 | 39d 56m 8s | 75d 12m 24s | 51st Street South of Botanic Street | Schuylkill River | Lower Schuylkill West Side | S_33 |
| 39 | 39d 55m 43s | 75d 12m 45s | 56th Street East of P&R Railroad | Schuylkill River | Lower Schuylkill West Side | S_38 |
| 40 | 39d 54m 39s | 75d 12m 55s | 64th St. and Buist Ave. | Schuylkill River | Lower Schuylkill West Side | S_45 |
| 41 | 39d 56m 10s | 75d 14m 6s | 60th Street & Cobbs Creek Parkway | Cobbs Creek | Cobbs Creek High Level | C_18 |
| 51 | 39d 58m 51s | 75d 16m 4s | City Line Avenue & 73rd Street | Cobbs Creek | Cobbs Creek High Level | C_01 |
| 52 | 39d 58m 51s | 75d 16m 1s | City Line Ave 100' South Side of Creek | Cobbs Creek | Cobbs Creek High Level | C_02 |
| 54 | 39d 58m 30s | 75d 15m 26s | Lebanon Ave Southwest of 73rd Street | Cobbs Creek | Cobbs Creek High Level | C_05 |
| 55 | 39d 58m 31s | 75d 15m 25s | Lebanon Avenue & 68th Street | Cobbs Creek | Cobbs Creek High Level | C_06 |
| 56 | 39d 58m 26s | 75d 15m 26s | Lansdowne Avenue & 69th Street | Cobbs Creek | Cobbs Creek High Level | C_07 |
| 57 | 39d 57m 51s | 75d 14m 56s | 54th Street & Cobbs Creek | Cobbs Creek | Cobbs Creek High Level | C_09 |
| 58 | 39d 57m 50s | 75d 14m 53s | Gross Street & Cobbs Creek | Cobbs Creek | Cobbs Creek High Level | C_10 |
| 59 | 39d 57m 43s | 75d 14m 53s | Cobbs Creek Pky South of Market St | Cobbs Creek | Cobbs Creek High Level | C_11 |
| 60 | 39d 57m 27s | 75d 14m 60s | Spruce Street & Cobbs Creek | Cobbs Creek | Cobbs Creek High Level | C_12 |
| 61 | 39d 56m 45s | 75d 14m 58s | 62nd Street & Cobbs Creek | Cobbs Creek | Cobbs Creek High Level | C_13 |
| 62 | 39d 56m 36s | 75d 14m 50s | Baltimore Avenue & Cobbs Creek | Cobbs Creek | Cobbs Creek High Level | C_14 |

| Point Source # | Outfall Latitude | Outfall Longitude | Regulator Location | Discharges to: | Interceptor | Outfall Name |
|---|---|---|---|---|---|---|
| 63 | 39d 56m 31s | 75d 14m 26s | 59th Street & Cobbs Creek Parkway | Cobbs Creek | Cobbs Creek High Level | C_15 |
| 64 | 39d 56m 26s | 75d 14m 23s | Thomas Avenue & Cobbs Creek | Cobbs Creek | Cobbs Creek High Level | C_16 |
| 65 | 39d 56m 13s | 75d 14m 6s | Beaumont Street & Cobbs Creek | Cobbs Creek | Cobbs Creek High Level | C_17 |
| 66 | 39d 58m 29s | 75d 16m 48s | Cobbs Creek Pky S of City Line Ave | Cobbs Creek | Cobbs Creek High Level | C_31 |
| 67 | 39d 58m 12s | 75d 15m 56s | Brockton Road & Farrington Road | Cobbs Creek | Cobbs Creek High Level | C_33 |
| 68 | 39d 58m 40s | 75d 15m 44s | Woodcrest Avenue & Morris Park | Cobbs Creek | Cobbs Creek High Level | C_34 |
| 69 | 39d 58m 47s | 75d 15m 54s | Morris Park West of 72nd Street & Sherwood Road | Cobbs Creek | Cobbs Creek High Level | C_35 |
| 70 | 39d 58m 49s | 75d 15m 35s | Woodbine Ave South of Brentwood Rd | Cobbs Creek | Cobbs Creek High Level | C_36 |
| 71 | 39d 57m 55s | 75d 15m 15s | Cobbs Creek Parkway South of 67th & Callowhill Streets | Cobbs Creek | Cobbs Creek High Level | C_37 |
| 72 | 39d 58m 22s | 75d 16m 11s | Cobbs Creek Parkway & 77th Street | Cobbs Creek | Cobbs Creek High Level | C_32 |
| 82 | 39d 58m 38s | 75d 15m 28s | Malvern Ave. and 68th St. | Cobbs Creek | Cobbs Creek High Level | C_04A |
| 42 | 39d 55m 57s | 75d 14m 19s | Mount Moriah Cemetary & 62nd Street | Cobbs Creek | Cobbs Creek Low Level | C_19 |
| 43 | 39d 55m 46s | 75d 14m 39s | 65th Street & Cobbs Creek Parkway | Cobbs Creek | Cobbs Creek Low Level | C_20 |
| 44 | 39d 55m 37s | 75d 14m 40s | 68th Street & Cobbs Creek Parkway | Cobbs Creek | Cobbs Creek Low Level | C_21 |
| 45 | 39d 55m 27s | 75d 14m 46s | 70th Street & Cobbs Creek Parkway | Cobbs Creek | Cobbs Creek Low Level | C_22 |
| 46 | 39d 55m 15s | 75d 14m 52s | Upland Street & Cobbs Creek Parkway | Cobbs Creek | Cobbs Creek Low Level | C_23 |

| Point Source # | Outfall Latitude | Outfall Longitude | Regulator Location | Discharges to: | Interceptor | Outfall Name |
|---|---|---|---|---|---|---|
| 47 | 39d 55m 1s | 75d 14m 49s | Woodland Avenue East of Island Ave. | Cobbs Creek | Cobbs Creek Low Level | C_25 |
| 49 | 39d 54m 44s | 75d 14m 56s | Claymont Street & Grays Avenue | Cobbs Creek | Cobbs Creek Low Level | C_29 |
| 50 | 39d 54m 34s | 75d 15m 1s | 77th Street West of Elmwood Avenue | Cobbs Creek | Cobbs Creek Low Level | C_30 |
| 78 | 39d 54m 49s | 75d 14m 50s | Island Ave. Southeast of Glenmore Ave | Cobbs Creek | Cobbs Creek Low Level | C_28A |
| 75 | 39d 57m 59s | 75d 11m 3s | 16th St. & Clearfield St. | Schuylkill River | Main Relief Sewer | S_FRM |
| 83 | 39d 56m 31s | 75d 14m 25s | 56th St. & Locust | Cobbs Creek | Thomas Run Relief Sewer | C_FRTR |
| 84 | 39d 57m 49s | 75d 14m 53s | Arch Street & Cobbs Creek | Cobbs Creek | Arch Street Relief Sewer | C_FRA |

**Table 2 - Overflow Summary for 7/1/2024 – 6/30/2025**

| District | Permitted Outfall | Frequency | Duration (hours) | Volume (ft^3) |
|---|---|---|---|---|
| Northeast | D_FRW | 45 | 108.25 | 22,037,399 |
| Northeast | D02 | 19 | 40.5 | 5,720,331 |
| Northeast | D03 | 23 | 39.25 | 1,484,273 |
| Northeast | D04 | 18 | 22.25 | 272,250 |
| Northeast | D05 | 37 | 120.75 | 36,975,257 |
| Northeast | D06 | 20 | 17.5 | 309,770 |
| Northeast | D07 | 44 | 111 | 16,378,598 |
| Northeast | D08 | 10 | 10.25 | 105,524 |
| Northeast | D09 | 7 | 4.25 | 88,810 |
| Northeast | D11 | 11 | 15.75 | 1,446,052 |
| Northeast | D12 | 37 | 58.75 | 202,437 |
| Northeast | D13 | 4 | 3.75 | 123,886 |
| Northeast | D15 | 14 | 23.5 | 930,679 |
| Northeast | D17 | 38 | 99.5 | 6,767,860 |
| Northeast | D18 | 36 | 72.25 | 3,673,904 |
| Northeast | D19 | 40 | 117.5 | 3,881,794 |
| Northeast | D20 | 26 | 43.75 | 1,942,822 |
| Northeast | D21 | 40 | 103 | 5,885,949 |
| Northeast | D22 | 57 | 264.25 | 18,114,528 |
| Northeast | D23 | 30 | 42 | 160,440 |
| Northeast | D25 | 52 | 230.5 | 65,845,485 |
| Northeast | F_FRFG | 10 | 30 | 2,612,740 |
| Northeast | F03 | 17 | 20.5 | 616,978 |
| Northeast | F04 | 46 | 117.25 | 4,102,977 |
| Northeast | F05 | 43 | 96.5 | 557,624 |
| Northeast | F06 | 23 | 24.75 | 759,052 |
| Northeast | F07 | 33 | 56 | 1,733,590 |
| Northeast | F08 | 29 | 49 | 1,323,831 |
| Northeast | F09 | 50 | 133.75 | 915,802 |
| Northeast | F10 | 17 | 30.75 | 909,133 |
| Northeast | F11 | 54 | 190.25 | 8,298,615 |
| Northeast | F12 | 24 | 29 | 346,283 |
| Northeast | F13 | 38 | 72.75 | 1,051,454 |
| Northeast | F21 | 48 | 294 | 66,888,799 |
| Northeast | F23 | 36 | 77.25 | 845,026 |

| District | Permitted Outfall | Frequency | Duration (hours) | Volume (ft^3) |
|---|---|---|---|---|
| Northeast | F24 | 42 | 67.5 | 532,105 |
| Northeast | F25 | 8 | 12.75 | 1,583,031 |
| Northeast | P01 | 15 | 19.5 | 654,487 |
| Northeast | P02 | 39 | 83.75 | 2,418,945 |
| Northeast | P03 | 30 | 41 | 532,861 |
| Northeast | P04 | 14 | 33 | 1,298,124 |
| Northeast | P05 | 23 | 62 | 3,702,646 |
| Northeast | T_FRRR | 35 | 143 | 22,510,159 |
| Northeast | T01 | 52 | 229.25 | 5,973,585 |
| Northeast | T03 | 49 | 105.5 | 2,590,175 |
| Northeast | T04 | 44 | 83.75 | 1,349,287 |
| Northeast | T05 | 42 | 58.25 | 1,060,644 |
| Northeast | T06 | 29 | 49.25 | 4,309,315 |
| Northeast | T07 | 16 | 10.75 | 105,700 |
| Northeast | T08 | 52 | 138.5 | 26,690,378 |
| Northeast | T09 | 37 | 40.75 | 584,005 |
| Northeast | T10 | 52 | 151.25 | 2,475,299 |
| Northeast | T11 | 37 | 62.75 | 555,875 |
| Northeast | T12 | 8 | 4.5 | 14,546 |
| Northeast | T13 | 34 | 82.5 | 2,274,480 |
| Northeast | T14 | 38 | 177 | 115,527,540 |
| Northeast | T15 | 41 | 85.25 | 3,896,861 |
| Southeast | D37 | 39 | 144.5 | 9,256,635 |
| Southeast | D38 | 31 | 89.75 | 9,371,899 |
| Southeast | D39 | 39 | 129.75 | 15,764,428 |
| Southeast | D40 | 39 | 131.5 | 781,569 |
| Southeast | D41 | 29 | 70.75 | 630,941 |
| Southeast | D42 | 5 | 5.75 | 32,410 |
| Southeast | D43 | 9 | 11.75 | 39,554 |
| Southeast | D44 | 16 | 29.5 | 1,374,122 |
| Southeast | D45 | 31 | 73.75 | 27,580,276 |
| Southeast | D46 | 16 | 29 | 364,888 |
| Southeast | D47 | 45 | 131.75 | 3,926,719 |
| Southeast | D48 | 27 | 46.25 | 6,300,388 |
| Southeast | D49 | 3 | 2 | 16,104 |
| Southeast | D50 | 3 | 2.75 | 43,805 |
| Southeast | D51 | 37 | 89.5 | 660,507 |

| District | Permitted Outfall | Frequency | Duration (hours) | Volume (ft^3) |
|---|---|---|---|---|
| Southeast | D51A | 33 | 70.25 | 633,654 |
| Southeast | D52 | 22 | 22 | 208,120 |
| Southeast | D53 | 8 | 9.75 | 1,208,968 |
| Southeast | D54 | 15 | 23 | 6,218,900 |
| Southeast | D58 | 19 | 23.75 | 647,629 |
| Southeast | D61 | 32 | 53 | 534,386 |
| Southeast | D62 | 21 | 27 | 202,768 |
| Southeast | D63 | 23 | 32.25 | 6,776,448 |
| Southeast | D64 | 32 | 49.5 | 361,655 |
| Southeast | D65 | 31 | 55.75 | 7,740,800 |
| Southeast | D66 | 43 | 103.75 | 8,491,285 |
| Southeast | D67 | 31 | 101.75 | 4,357,231 |
| Southeast | D68 | 36 | 99 | 15,867,959 |
| Southeast | D69 | 21 | 41.5 | 5,313,654 |
| Southeast | D70 | 17 | 30.5 | 7,570,854 |
| Southeast | D71 | 11 | 19.75 | 2,501,766 |
| Southeast | D72 | 11 | 21.75 | 3,454,535 |
| Southeast | D73 | 42 | 146.75 | 17,089,016 |
| Southwest | C_FRA | 12 | 9.75 | 1,449,303 |
| Southwest | C_FRTR | 65 | 347.25 | 19,452,628 |
| Southwest | C01 | 18 | 16 | 409,900 |
| Southwest | C02 | 3 | 1.5 | 3,988 |
| Southwest | C04A | 20 | 20.25 | 848,786 |
| Southwest | C05 | 4 | 3 | 59,762 |
| Southwest | C06 | 42 | 64 | 2,916,315 |
| Southwest | C07 | 26 | 23.75 | 711,112 |
| Southwest | C09 | 33 | 45.25 | 1,563,739 |
| Southwest | C10 | 26 | 45.5 | 389,174 |
| Southwest | C11 | 42 | 83.5 | 11,063,028 |
| Southwest | C12 | 34 | 63.25 | 1,241,906 |
| Southwest | C13 | 31 | 40 | 811,994 |
| Southwest | C14 | 29 | 41.25 | 1,578,949 |
| Southwest | C15 | 5 | 4.75 | 71,813 |
| Southwest | C16 | 3 | 1.5 | 5,566 |
| Southwest | C17 | 43 | 91.75 | 16,688,924 |
| Southwest | C18 | 30 | 30.25 | 1,665,959 |
| Southwest | C19 | 13 | 10 | 424,865 |

| District | Permitted Outfall | Frequency | Duration (hours) | Volume (ft^3) |
|---|---|---|---|---|
| Southwest | C20 | 13 | 11.75 | 229,268 |
| Southwest | C21 | 8 | 6 | 134,351 |
| Southwest | C22 | 32 | 45.75 | 1,263,787 |
| Southwest | C23 | 7 | 11.25 | 86,303 |
| Southwest | C25 | 15 | 31 | 1,281,156 |
| Southwest | C28A | 26 | 35.5 | 294,431 |
| Southwest | C29 | 23 | 64.5 | 1,326,685 |
| Southwest | C30 | 19 | 46 | 403,538 |
| Southwest | C31 | 36 | 53.25 | 956,309 |
| Southwest | C32 | 40 | 48.75 | 1,274,439 |
| Southwest | C33 | 22 | 18 | 451,282 |
| Southwest | C34 | 12 | 9.5 | 288,895 |
| Southwest | C35 | 8 | 6.25 | 47,326 |
| Southwest | C36 | 7 | 5.5 | 54,305 |
| Southwest | C37 | 17 | 11.75 | 116,782 |
| Southwest | S_FRM | 6 | 7.25 | 2,926,997 |
| Southwest | S01 | 40 | 91.5 | 8,512,514 |
| Southwest | S02 | 34 | 75 | 808,437 |
| Southwest | S03 | 4 | 1.75 | 3,398 |
| Southwest | S04 | 49 | 124 | 1,494,250 |
| Southwest | S05 | 59 | 269.75 | 27,019,588 |
| Southwest | S06 | 43 | 94.25 | 8,542,776 |
| Southwest | S07 | 23 | 32.25 | 1,642,272 |
| Southwest | S08 | 26 | 41 | 180,523 |
| Southwest | S09 | 37 | 60.25 | 6,276,925 |
| Southwest | S10 | 50 | 213.75 | 2,662,743 |
| Southwest | S11 | 51 | 136.5 | 1,248,597 |
| Southwest | S12A | 35 | 62.75 | 904,866 |
| Southwest | S13 | 13 | 11.75 | 272,022 |
| Southwest | S14 | 46 | 166.25 | 1,377,341 |
| Southwest | S15 | 18 | 21 | 247,356 |
| Southwest | S16 | 41 | 87.75 | 842,417 |
| Southwest | S17 | 20 | 21.75 | 492,465 |
| Southwest | S18 | 43 | 96.25 | 5,185,319 |
| Southwest | S19 | 22 | 22 | 240,225 |
| Southwest | S20 | 58 | 232 | 14,039,663 |
| Southwest | S21 | 21 | 26.25 | 155,623 |

| District | Permitted Outfall | Frequency | Duration (hours) | Volume (ft^3) |
|---|---|---|---|---|
| Southwest | S22 | 39 | 77.75 | 2,375,989 |
| Southwest | S23 | 46 | 130 | 1,547,518 |
| Southwest | S24 | 14 | 19 | 203,938 |
| Southwest | S25 | 37 | 72.75 | 1,905,628 |
| Southwest | S26 | 51 | 178.25 | 11,417,401 |
| Southwest | S30 | 8 | 6 | 82,834 |
| Southwest | S31 | 34 | 60 | 1,645,754 |
| Southwest | S32 | 15 | 12.75 | 155,670 |
| Southwest | S33 | 46 | 227 | 11,173,370 |
| Southwest | S36A | 54 | 192.25 | 5,311,161 |
| Southwest | S37 | 50 | 136.75 | 2,241,501 |
| Southwest | S38 | 21 | 22 | 3,207,472 |
| Southwest | S42 | 39 | 106.25 | 12,393,361 |
| Southwest | S42A | 53 | 277.25 | 13,591,705 |
| Southwest | S44 | 34 | 74.25 | 6,015,976 |
| Southwest | S45 | 25 | 34.25 | 12,315,880 |
| Southwest | S46 | 12 | 20 | 792,026 |
| Southwest | S50 | 56 | 264.5 | 117,109,417 |

**Table 3 - Overflow Summary for Typical Year Precipitation (based on Year-10 EAP submission)**

| District | Permitted Outfall | Frequency | SWO Duration (hrs) | Overflow Volume (MG) |
|---|---|---|---|---|
| **Northeast** | D_FRW | 50 | 172.5 | 160 |
| **Northeast** | D02 | 14 | 39 | 48.6 |
| **Northeast** | D03 | 18 | 38.5 | 12.4 |
| **Northeast** | D04 | 12 | 27.75 | 2.8 |
| **Northeast** | D05 | 48 | 212 | 377.3 |
| **Northeast** | D06 | 11 | 15.75 | 3 |
| **Northeast** | D07 | 51 | 191.25 | 133.1 |
| **Northeast** | D08 | 8 | 10.25 | 1 |
| **Northeast** | D09 | 7 | 5 | 1.1 |
| **Northeast** | D11 | 6 | 17.75 | 14.3 |
| **Northeast** | D12 | 48 | 101.75 | 2.2 |
| **Northeast** | D13 | 7 | 8 | 1.1 |
| **Northeast** | D15 | 14 | 35 | 11.3 |
| **Northeast** | D17 | 45 | 156.5 | 65.4 |
| **Northeast** | D18 | 41 | 108.75 | 37.4 |
| **Northeast** | D19 | 52 | 207.75 | 41 |
| **Northeast** | D20 | 27 | 56.75 | 19.8 |
| **Northeast** | D21 | 48 | 164.5 | 63.2 |
| **Northeast** | D22 | 70 | 427.75 | 212.1 |
| **Northeast** | D23 | 42 | 77 | 2.7 |
| **Northeast** | D25 | 62 | 374.75 | 858.7 |
| **Northeast** | F_FRFG | 0 | 0 | 0 |
| **Northeast** | F03 | 12 | 17.25 | 5 |
| **Northeast** | F04 | 55 | 192.5 | 32 |
| **Northeast** | F05 | 51 | 158 | 4.3 |
| **Northeast** | F06 | 18 | 27.75 | 4.9 |
| **Northeast** | F07 | 38 | 68.25 | 12.5 |
| **Northeast** | F08 | 33 | 55.75 | 9.4 |
| **Northeast** | F09 | 61 | 223.75 | 9.2 |
| **Northeast** | F10 | 15 | 31.5 | 6.8 |
| **Northeast** | F11 | 60 | 314.5 | 81.6 |
| **Northeast** | F12 | 24 | 37 | 3.3 |
| **Northeast** | F13 | 43 | 100.5 | 9.2 |
| **Northeast** | F21 | 58 | 429.5 | 688.5 |
| **Northeast** | F23 | 39 | 119.25 | 8.2 |
| **Northeast** | F24 | 50 | 109.25 | 5.1 |
| **Northeast** | F25 | 11 | 21.5 | 18.4 |
| **Northeast** | P01 | 10 | 13 | 3.7 |
| **Northeast** | P02 | 43 | 111.5 | 17.4 |
| **Northeast** | P03 | 22 | 41.5 | 3.7 |

| District | Permitted Outfall | Frequency | SWO Duration (hrs) | Overflow Volume (MG) |
|---|---|---|---|---|
| **Northeast** | P04 | 10 | 33.75 | 13.8 |
| **Northeast** | P05 | 19 | 60.75 | 31.4 |
| **Northeast** | T_FRRR | 33 | 169.75 | 195.9 |
| **Northeast** | T01 | 62 | 330 | 53.4 |
| **Northeast** | T03 | 58 | 164.5 | 18.7 |
| **Northeast** | T04 | 46 | 108 | 8.6 |
| **Northeast** | T05 | 42 | 64.75 | 6.5 |
| **Northeast** | T06 | 23 | 46 | 27.2 |
| **Northeast** | T07 | 8 | 6.5 | 0.8 |
| **Northeast** | T08 | 60 | 219.5 | 196.9 |
| **Northeast** | T09 | 32 | 39.5 | 3.6 |
| **Northeast** | T10 | 61 | 245.75 | 20.8 |
| **Northeast** | T11 | 47 | 81.25 | 4.2 |
| **Northeast** | T12 | 7 | 4 | 0.1 |
| **Northeast** | T13 | 38 | 119.5 | 18.4 |
| **Northeast** | T14 | 35 | 165.75 | 1091.3 |
| **Northeast** | T15 | 48 | 134 | 32.2 |
| **Southeast** | D37 | 52 | 291.5 | 161.2 |
| **Southeast** | D38 | 43 | 177.5 | 160.2 |
| **Southeast** | D39 | 48 | 238 | 235.8 |
| **Southeast** | D40 | 57 | 264.75 | 15.4 |
| **Southeast** | D41 | 38 | 135 | 14.5 |
| **Southeast** | D42 | 15 | 16.25 | 1.3 |
| **Southeast** | D43 | 19 | 28.75 | 1.5 |
| **Southeast** | D44 | 20 | 52 | 32.7 |
| **Southeast** | D45 | 38 | 134 | 412.1 |
| **Southeast** | D46 | 24 | 53.75 | 6.9 |
| **Southeast** | D47 | 55 | 223.75 | 50.5 |
| **Southeast** | D48 | 28 | 65 | 72.9 |
| **Southeast** | D49 | 7 | 5 | 0.4 |
| **Southeast** | D50 | 7 | 6.75 | 0.8 |
| **Southeast** | D51 | 44 | 148.5 | 7.2 |
| **Southeast** | D51A | 39 | 102.5 | 7.4 |
| **Southeast** | D52 | 22 | 33.5 | 2.6 |
| **Southeast** | D53 | 9 | 15.75 | 14.8 |
| **Southeast** | D54 | 19 | 30 | 63.2 |
| **Southeast** | D58 | 19 | 29.75 | 6.8 |
| **Southeast** | D61 | 37 | 70.5 | 5.2 |
| **Southeast** | D62 | 19 | 28.25 | 1.9 |
| **Southeast** | D63 | 22 | 42.25 | 61.9 |
| **Southeast** | D64 | 34 | 64.5 | 3.3 |
| **Southeast** | D65 | 31 | 83.5 | 75 |

| District | Permitted Outfall | Frequency | SWO Duration (hrs) | Overflow Volume (MG) |
|---|---|---|---|---|
| **Southeast** | D66 | 50 | 179.5 | 85.6 |
| **Southeast** | D67 | 36 | 159 | 45.8 |
| **Southeast** | D68 | 40 | 161.5 | 167.9 |
| **Southeast** | D69 | 23 | 62 | 54.2 |
| **Southeast** | D70 | 21 | 52 | 78.3 |
| **Southeast** | D71 | 12 | 25.75 | 26.5 |
| **Southeast** | D72 | 13 | 27 | 32.8 |
| **Southeast** | D73 | 47 | 234.75 | 189.1 |
| **Southwest** | C_FRA | 11 | 8 | 5.9 |
| **Southwest** | C_FRTR | 75 | 481.75 | 162.3 |
| **Southwest** | C01 | 15 | 14.75 | 1.9 |
| **Southwest** | C02 | 2 | 0.75 | 0.01 |
| **Southwest** | C04A | 17 | 19.5 | 3.6 |
| **Southwest** | C05 | 1 | 0.75 | 0.1 |
| **Southwest** | C06 | 41 | 80.5 | 19.3 |
| **Southwest** | C07 | 20 | 22 | 3.6 |
| **Southwest** | C09 | 30 | 54.75 | 10 |
| **Southwest** | C10 | 25 | 53.25 | 3.4 |
| **Southwest** | C11 | 38 | 99.5 | 91 |
| **Southwest** | C12 | 32 | 78 | 9.7 |
| **Southwest** | C13 | 22 | 46.75 | 5.6 |
| **Southwest** | C14 | 23 | 55.75 | 12 |
| **Southwest** | C15 | 7 | 6.75 | 0.4 |
| **Southwest** | C16 | 1 | 0.25 | 0.0001 |
| **Southwest** | C17 | 44 | 130 | 148.8 |
| **Southwest** | C18 | 28 | 37 | 10.4 |
| **Southwest** | C19 | 10 | 9.5 | 2.2 |
| **Southwest** | C20 | 10 | 9.75 | 1.2 |
| **Southwest** | C21 | 4 | 5.25 | 0.6 |
| **Southwest** | C22 | 29 | 49.75 | 8.1 |
| **Southwest** | C23 | 5 | 14.5 | 0.9 |
| **Southwest** | C25 | 14 | 35.25 | 9 |
| **Southwest** | C28A | 30 | 41 | 1.7 |
| **Southwest** | C29 | 22 | 82 | 11.5 |
| **Southwest** | C30 | 18 | 58.75 | 3 |
| **Southwest** | C31 | 33 | 67 | 6.3 |
| **Southwest** | C32 | 36 | 64.5 | 7.7 |
| **Southwest** | C33 | 19 | 18.5 | 2.2 |
| **Southwest** | C34 | 11 | 7.5 | 1.1 |
| **Southwest** | C35 | 6 | 3.5 | 0.2 |
| **Southwest** | C36 | 4 | 2.5 | 0.2 |
| **Southwest** | C37 | 13 | 11 | 0.5 |

| District | Permitted Outfall | Frequency | SWO Duration (hrs) | Overflow Volume (MG) |
|---|---|---|---|---|
| **Southwest** | S_FRM | 8 | 14 | 59.0 |
| **Southwest** | S01 | 36 | 104.5 | 74.4 |
| **Southwest** | S02 | 41 | 102.5 | 6.5 |
| **Southwest** | S03 | 2 | 1 | 0.1 |
| **Southwest** | S04 | 56 | 180.75 | 12.4 |
| **Southwest** | S05 | 72 | 385 | 267.8 |
| **Southwest** | S06 | 53 | 145.75 | 78.2 |
| **Southwest** | S07 | 22 | 40.75 | 15.9 |
| **Southwest** | S08 | 29 | 48.5 | 1.4 |
| **Southwest** | S09 | 35 | 75.75 | 55.6 |
| **Southwest** | S10 | 64 | 303 | 25.6 |
| **Southwest** | S11 | 58 | 198.5 | 10.6 |
| **Southwest** | S12A | 43 | 90.25 | 7.7 |
| **Southwest** | S13 | 16 | 13.25 | 2.3 |
| **Southwest** | S14 | 51 | 236.5 | 12.2 |
| **Southwest** | S15 | 21 | 30 | 2.1 |
| **Southwest** | S16 | 56 | 137.25 | 7.3 |
| **Southwest** | S17 | 21 | 32.25 | 4.3 |
| **Southwest** | S18 | 50 | 153.5 | 47.7 |
| **Southwest** | S19 | 25 | 29.5 | 2.1 |
| **Southwest** | S20 | 63 | 313 | 128.2 |
| **Southwest** | S21 | 27 | 35 | 1.4 |
| **Southwest** | S22 | 46 | 114 | 18.7 |
| **Southwest** | S23 | 54 | 196.5 | 14.8 |
| **Southwest** | S24 | 13 | 22 | 1.8 |
| **Southwest** | S25 | 43 | 106.5 | 16.4 |
| **Southwest** | S26 | 59 | 264.75 | 110.7 |
| **Southwest** | S30 | 6 | 4.5 | 0.5 |
| **Southwest** | S31 | 42 | 80.75 | 14.6 |
| **Southwest** | S32 | 11 | 10.5 | 1 |
| **Southwest** | S33 | 53 | 310.75 | 96.2 |
| **Southwest** | S36A | 64 | 288 | 52.6 |
| **Southwest** | S37 | 58 | 218 | 21.8 |
| **Southwest** | S38 | 21 | 25.75 | 19.7 |
| **Southwest** | S42 | 50 | 176 | 120.6 |
| **Southwest** | S42A | 61 | 386.75 | 142.1 |
| **Southwest** | S44 | 39 | 123.5 | 62.1 |
| **Southwest** | S45 | 24 | 46.5 | 95 |
| **Southwest** | S46 | 13 | 24.75 | 8.2 |
| **Southwest** | S50 | 62 | 349.25 | 1033.6 |

**Table 4 - July 2024 PWD Rain Gage Records**

| Date/RG | RG1 | RG2 | RG3 | RG4 | RG5 | RG6 | RG7 | RG8 | RG9 | RG10 | RG11 | RG12 | RG13 | RG14 | RG15 | RG16 | RG17 | RG18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **7/1/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/2/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/3/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/4/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/5/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/6/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/7/2024** | 0.016 | 0.09 | 0.13 | 0 | 0 | 0.23 | 0.34 | 0.21 | 0.4 | 0.03 | 0 | 0 | 0.13 | 0 | 0.02 | 0.072 | 0.23 | 0.19 |
| **7/8/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/9/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/10/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/11/2024** | 0.5 | 0.57 | 0.24 | 0.32 | 0.71 | 0.16 | 0.2 | 0.38 | 0.22 | 0.31 | 0.35 | 0.54 | 0.23 | 0.51 | 0.27 | 0.406 | 0.4 | 0.24 |
| **7/12/2024** | 0.504 | 0.28 | 0.1 | 0.1 | 0.24 | 0.16 | 0.14 | 0.14 | 0.2 | 0.07 | 0.13 | 0.3 | 0.09 | 0.06 | 0.14 | 0.79 | 0.11 | 0.15 |
| **7/13/2024** | 0.002 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| **7/14/2024** | 0.625 | 0.69 | 0.68 | 0.99 | 0.13 | 0.5 | 0.09 | 0.24 | 0.16 | 0.45 | 0.22 | 0.21 | 0.7 | 0.01 | 0.06 | 0.19 | 0.29 | 0.25 |
| **7/15/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/16/2024** | 0.111 | 0.06 | 0.51 | 0.7 | 0.08 | 0.09 | 0.31 | 0.35 | 0.13 | 0.43 | 0.3 | 0.23 | 0.28 | 0.29 | 0.25 | 0.35 | 0.41 | 0.03 |
| **7/17/2024** | 0.032 | 0.13 | 0.65 | 0.09 | 0 | 0.26 | 0.19 | 0.85 | 0.11 | 0.98 | 0.82 | 0 | 0.53 | 0.255 | 0.02 | 0.03 | 0.27 | 0.33 |
| **7/18/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/19/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/20/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/21/2024** | 0.003 | 0.01 | 0.14 | 1.34 | 0 | 0.06 | 0 | 0 | 0.09 | 0 | 0.09 | 0.05 | 0.79 | 0.134 | 0 | 0.02 | 0.71 | 0 |
| **7/22/2024** | 0.108 | 0.19 | 0.11 | 0.01 | 0.02 | 0.05 | 0.01 | 0 | 0.04 | 0.05 | 0.01 | 0.07 | 0.05 | 0.018 | 0 | 0.1 | 0.03 | 0.01 |
| **7/23/2024** | 0.116 | 0.25 | 0.24 | 0.15 | 0.05 | 0.37 | 0.13 | 0.28 | 0.2 | 0.38 | 0.26 | 0.03 | 0.25 | 0.17 | 0.17 | 0.24 | 0.11 | 0.4 |
| **7/24/2024** | 0.13 | 0.34 | 0.52 | 0.43 | 0.35 | 0.47 | 1.06 | 0.74 | 0.506 | 0.44 | 0.8 | 0.36 | 0.57 | 0.28 | 0.68 | 0.14 | 0.96 | 1.05 |
| **7/25/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/26/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/27/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/28/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/29/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/30/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/31/2024** | 0.036 | 0.02 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 | 0 | 0.01 | 0 | 0 |

**Table 5 - July 2024 PWD Rain Gage Records**

| Date/RG | RG19 | RG20 | RG21 | RG22 | RG23 | RG24 | RG25 | RG26 | RG27 | RG28 | RG29 | RG30 | RG31 | RG32 | RG33 | RG34 | RG35 | RG36 | RG37 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **7/1/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/2/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/3/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/4/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/5/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/6/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/7/2024** | 0.04 | 0.18 | 0 | 0.32 | 0 | 0 | 0 | 0.089 | 0.3 | 0.01 | 0 | 0.083 | 0 | 0.08 | 0.151 | 0.212 | 0 | 0.1 | 0.003 |
| **7/8/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/9/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/10/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/11/2024** | 0.14 | 0.43 | 0.11 | 0.22 | 0.49 | 0.27 | 0.45 | 0.277 | 0.52 | 0.3 | 0.09 | 0.311 | 0.17 | 0.18 | 0.444 | 0.229 | 0.14 | 0.17 | 0.537 |
| **7/12/2024** | 0.07 | 0.03 | 0.12 | 0.21 | 0.56 | 0.053 | 0.43 | 0.182 | 0.08 | 0.03 | 0.08 | 0.117 | 0.07 | 0.02 | 0.276 | 0.204 | 0.19 | 0.09 | 0.333 |
| **7/13/2024** | 0 | 0.21 | 0 | 0.01 | 0 | 0.01 | 0 | 0.001 | 0 | 0.01 | 0 | 0.002 | 0.01 | 0.07 | 0.008 | 0.004 | 0 | 0 | 0 |
| **7/14/2024** | 0.38 | 0.08 | 0.66 | 0.23 | 0.65 | 0.05 | 0.22 | 0.12 | 0.33 | 0.09 | 0.31 | 0.298 | 0.18 | 0.04 | 0.527 | 0.418 | 0.79 | 0.92 | 0.242 |
| **7/15/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/16/2024** | 0.14 | 0.41 | 0.26 | 0.15 | 0.12 | 0.27 | 0.11 | 0.249 | 0.47 | 0.389 | 0.49 | 0.318 | 0.39 | 0.64 | 0.095 | 0.125 | 0.01 | 0.096 | 0.186 |
| **7/17/2024** | 0.58 | 1.06 | 0.54 | 0.12 | 0.01 | 1.08 | 0.032 | 0.133 | 0.71 | 0.977 | 0.54 | 0.739 | 0.76 | 0.87 | 0.134 | 0.27 | 0.78 | 0.36 | 0.008 |
| **7/18/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/19/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/20/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/21/2024** | 0 | 0.19 | 0 | 0.02 | 0 | 0 | 0.03 | 0 | 0.06 | 0.128 | 0 | 0.114 | 0 | 0 | 0.018 | 0.03 | 0 | 0 | 0.036 |
| **7/22/2024** | 0.01 | 0 | 0.37 | 0.07 | 0.1 | 0.01 | 0.01 | 0.014 | 0.02 | 0.009 | 0.08 | 0.021 | 0.03 | 0 | 0.138 | 0.095 | 0.11 | 0.34 | 0.06 |
| **7/23/2024** | 0.45 | 0.15 | 0.33 | 0.23 | 0.09 | 0.3 | 0.09 | 0.203 | 0.18 | 0.212 | 0.29 | 0.281 | 0.28 | 0.34 | 0.238 | 0.294 | 0.41 | 0.65 | 0.052 |
| **7/24/2024** | 1.12 | 0.29 | 0.63 | 0.524 | 0.07 | 0.47 | 0.29 | 0.713 | 0.38 | 0.68 | 0.05 | 0.747 | 0.35 | 0.59 | 0.359 | 0.79 | 1.33 | 1.77 | 0.329 |
| **7/25/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/26/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/27/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/28/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/29/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/30/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7/31/2024** | 0 | 0 | 0 | 0 | 0.04 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.015 | 0.002 | 0 | 0 | 0.033 |

**Table 6 – August 2024 PWD Rain Gage Records**

| Date/RG | RG1 | RG2 | RG3 | RG4 | RG5 | RG6 | RG7 | RG8 | RG9 | RG10 | RG11 | RG12 | RG13 | RG14 | RG15 | RG16 | RG17 | RG18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **8/1/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/2/2024** | 0.342 | 0.15 | 0.55 | 0.42 | 0.37 | 0.72 | 0.53 | 0.67 | 0.57 | 0.68 | 0.83 | 0.52 | 0.8 | 0.11 | 0.1 | 0.11 | 0.81 | 0.38 |
| **8/3/2024** | 0.472 | 0.73 | 0.75 | 0.45 | 0.33 | 0.67 | 0.49 | 0.66 | 0.51 | 0.52 | 0.71 | 0.37 | 0.7 | 0.53 | 0.28 | 0.51 | 0.54 | 0.67 |
| **8/4/2024** | 0.292 | 0.22 | 0.21 | 0.51 | 0.1 | 0.05 | 0.06 | 0.33 | 0.27 | 0.13 | 0.31 | 0.07 | 0.32 | 0.093 | 0.01 | 0.06 | 0.11 | 0.16 |
| **8/5/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/6/2024** | 1.601 | 1.42 | 1.86 | 2.74 | 2.15 | 1.21 | 1.67 | 1.26 | 1.48 | 1.86 | 1.25 | 1.69 | 1.46 | 1.76 | 0.84 | 1.48 | 1.62 | 1.4 |
| **8/7/2024** | 0.19 | 0.22 | 0.23 | 0.17 | 0.15 | 0.39 | 0.26 | 0.26 | 0.32 | 0.35 | 0.25 | 0.14 | 0.26 | 0.18 | 0.1 | 0.2 | 0.18 | 0.29 |
| **8/8/2024** | 0.902 | 0.82 | 1.71 | 1.31 | 0.94 | 0.73 | 1.59 | 1.62 | 0.82 | 1.99 | 1.65 | 0.76 | 2.09 | 1.77 | 0.87 | 1.12 | 1.56 | 0.92 |
| **8/9/2024** | 0.33 | 0.39 | 0.63 | 0.51 | 0.51 | 0.32 | 0.35 | 0.4 | 0.43 | 0.76 | 0.55 | 0.3 | 0.6 | 0.66 | 0.36 | 0.47 | 0.49 | 0.08 |
| **8/10/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/11/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/12/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/13/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/14/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/15/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/16/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/17/2024** | 0.314 | 0.15 | 0.06 | 0.1 | 0.07 | 0.05 | 0.05 | 0.03 | 0.051 | 0.03 | 0.04 | 0.18 | 0.07 | 0 | 0.08 | 0.12 | 0.04 | 0.064 |
| **8/18/2024** | 0.959 | 1.32 | 0.69 | 0.46 | 0.66 | 0.39 | 0.66 | 1.4 | 0.468 | 1.34 | 1.3 | 0.52 | 0.87 | 0.16 | 0.26 | 1.45 | 0.41 | 0.664 |
| **8/19/2024** | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| **8/20/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/21/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/22/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/23/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/24/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/25/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/26/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/27/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/28/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/29/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/30/2024** | 0 | 0 | 0.25 | 0.26 | 0 | 0 | 0.07 | 0.27 | 0 | 0.34 | 0.24 | 0 | 0.14 | 0 | 0.01 | 0 | 0.37 | 0 |
| **8/31/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table 7 - August 2024 PWD Rain Gage Records**

| Date/RG | RG19 | RG20 | RG21 | RG22 | RG23 | RG24 | RG25 | RG26 | RG27 | RG28 | RG29 | RG30 | RG31 | RG32 | RG33 | RG34 | RG35 | RG36 | RG37 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **8/1/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/2/2024** | 0.75 | 0.5 | 0.64 | 0.55 | 0.37 | 0.517 | 0.41 | 0.23 | 0.59 | 0.48 | 0.23 | 0.711 | 0.29 | 0.58 | 0.314 | 0.548 | 0.5 | 0.82 | 0.59 |
| **8/3/2024** | 0.81 | 0.92 | 0.27 | 0.54 | 0.42 | 0.604 | 0.49 | 0.34 | 0.55 | 0.65 | 0.4 | 0.663 | 0.62 | 0.34 | 0.637 | 0.574 | 0.57 | 0.86 | 0.4 |
| **8/4/2024** | 0.3 | 0.07 | 0.52 | 0.11 | 0.32 | 0.16 | 0.27 | 0.05 | 0.12 | 0.06 | 0.64 | 0.279 | 0.24 | 0.36 | 0.202 | 0.232 | 0.66 | 0.4 | 0.07 |
| **8/5/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/6/2024** | 1.3 | 2.21 | 0.87 | 1.38 | 1.62 | 1.732 | 1.87 | 1.51 | 1.91 | 1.75 | 1.03 | 1.36 | 0.99 | 2.14 | 1.78 | 1.408 | 0.93 | 1.25 | 1.57 |
| **8/7/2024** | 0.35 | 0.17 | 0.43 | 0.38 | 0.18 | 0.257 | 0.2 | 0.27 | 0.2 | 0.28 | 0.75 | 0.273 | 0.26 | 0.19 | 0.44 | 0.397 | 0.66 | 0.4 | 0.21 |
| **8/8/2024** | 1.01 | 1.01 | 0.58 | 0.7 | 0.93 | 1.359 | 0.76 | 1.33 | 1.11 | 0.94 | 0.89 | 1.617 | 1.82 | 1.23 | 0.602 | 0.75 | 0.81 | 0.74 | 0.84 |
| **8/9/2024** | 0.38 | 1.04 | 0.24 | 0.4 | 0.31 | 0.716 | 0.35 | 0.31 | 0.72 | 0.77 | 0.35 | 0.511 | 0.64 | 0.66 | 0.383 | 0.356 | 0.25 | 0.36 | 0.48 |
| **8/10/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/11/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/12/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/13/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/14/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/15/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/16/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/17/2024** | 0.052 | 0.11 | 0.04 | 0.05 | 0.37 | 0.039 | 0.12 | 0.07 | 0.03 | 0.03 | 0.06 | 0.04 | 0.06 | 0.03 | 0.131 | 0.069 | 0.06 | 0.07 | 0.13 |
| **8/18/2024** | 0.525 | 0.51 | 0.14 | 0.56 | 0.89 | 0.89 | 0.88 | 1.51 | 0.61 | 0.91 | 0.3 | 1.15 | 1.02 | 0.8 | 1.045 | 0.546 | 0.19 | 0.43 | 1.16 |
| **8/19/2024** | 0 | 0 | 0.03 | 0 | 0 | 0.007 | 0 | 0 | 0 | 0.01 | 0.03 | 0.005 | 0.02 | 0 | 0 | 0.003 | 0.01 | 0.01 | 0 |
| **8/20/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/21/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/22/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/23/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/24/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/25/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/26/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/27/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/28/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/29/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **8/30/2024** | 0 | 0.42 | 0.16 | 0 | 0 | 0.367 | 0 | 0.1 | 0.43 | 0.51 | 0.16 | 0.217 | 0.15 | 0.342 | 0.003 | 0.02 | 0.06 | 0.05 | 0 |
| **8/31/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table 8 – September 2024 PWD Rain Gage Records**

| Date/RG | RG1 | RG2 | RG3 | RG4 | RG5 | RG6 | RG7 | RG8 | RG9 | RG10 | RG11 | RG12 | RG13 | RG14 | RG15 | RG16 | RG17 | RG18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **9/1/2024** | 0 | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0.03 | 0 | 0.02 | 0.01 | 0 | 0.05 | 0 | 0 | 0 | 0.01 | 0 |
| **9/2/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/3/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/4/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/5/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/6/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/7/2024** | 0.418 | 0.19 | 0.12 | 0.14 | 0.38 | 0.01 | 0.17 | 0.04 | 0 | 0.01 | 0.04 | 0.28 | 0.08 | 0.152 | 0.15 | 0.22 | 0.22 | 0 |
| **9/8/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/9/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/10/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/11/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/12/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/13/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/14/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/15/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/16/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/17/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/18/2024** | 0.039 | 0.04 | 0.01 | 0 | 0.02 | 0.03 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.03 | 0.01 | 0.02 |
| **9/19/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/20/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/21/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/22/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/23/2024** | 0.002 | 0.01 | 0.04 | 0.04 | 0 | 0 | 0.02 | 0.04 | 0 | 0.04 | 0.03 | 0 | 0.05 | 0.018 | 0 | 0 | 0.03 | 0.02 |
| **9/24/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/25/2024** | 0.127 | 0.05 | 0.08 | 0.21 | 0.2 | 0.05 | 0.06 | 0.04 | 0.03 | 0.05 | 0.04 | 0.25 | 0.06 | 0.053 | 0.05 | 0.06 | 0.06 | 0.038 |
| **9/26/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/27/2024** | 0.033 | 0.04 | 0.16 | 0.11 | 0.04 | 0.07 | 0.08 | 0.11 | 0.04 | 0.24 | 0.13 | 0.04 | 0.14 | 0.072 | 0.04 | 0.07 | 0.12 | 0.09 |
| **9/28/2024** | 0.086 | 0.11 | 0.17 | 0.16 | 0.09 | 0.14 | 0.13 | 0.14 | 0.12 | 0.2 | 0.14 | 0.05 | 0.15 | 0.09 | 0.07 | 0.1 | 0.1 | 0.11 |
| **9/29/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0.02 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0.01 | 0 |
| **9/30/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table 9 - September 2024 PWD Rain Gage Records**

| Date/RG | RG19 | RG20 | RG21 | RG22 | RG23 | RG24 | RG25 | RG26 | RG27 | RG28 | RG29 | RG30 | RG31 | RG32 | RG33 | RG34 | RG35 | RG36 | RG37 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **9/1/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0.02 | 0.016 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/2/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/3/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/4/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/5/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/6/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/7/2024** | 0 | 0.09 | 0.05 | 0.02 | 0.48 | 0 | 0.34 | 0.14 | 0.18 | 0.07 | 0.11 | 0.049 | 0 | 0.03 | 0.12 | 0.061 | 0.01 | 0 | 0.41 |
| **9/8/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/9/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/10/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/11/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/12/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/13/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/14/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/15/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/16/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/17/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/18/2024** | 0.01 | 0 | 0.01 | 0.02 | 0.04 | 0.01 | 0.03 | 0.01 | 0 | 0 | 0.01 | 0.01 | 0 | 0 | 0.033 | 0.022 | 0.02 | 0.02 | 0.04 |
| **9/19/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/20/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/21/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/22/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/23/2024** | 0.03 | 0.04 | 0.02 | 0.01 | 0 | 0.02 | 0.01 | 0.01 | 0.03 | 0.04 | 0.06 | 0.034 | 0.05 | 0.04 | 0.008 | 0.009 | 0.02 | 0.01 | 0 |
| **9/24/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **9/25/2024** | 0.048 | 0.08 | 0.112 | 0.03 | 0.14 | 0.03 | 0.09 | 0.03 | 0.09 | 0.05 | 0.14 | 0.047 | 0.07 | 0.09 | 0.057 | 0.056 | 0.12 | 0.03 | 0.28 |
| **9/26/2024** | 0.007 | 0 | 0.113 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0.3 | 0.006 | 0.02 | 0.19 | 0 | 0.009 | 0.05 | 0.01 | 0 |
| **9/27/2024** | 0.14 | 0.1 | 0.1 | 0.05 | 0.03 | 0.11 | 0.03 | 0.07 | 0.12 | 0.13 | 0.15 | 0.134 | 0.2 | 0.14 | 0.043 | 0.069 | 0.16 | 0.08 | 0.04 |
| **9/28/2024** | 0.12 | 0.18 | 0.15 | 0.11 | 0.08 | 0.17 | 0.08 | 0.12 | 0.22 | 0.28 | 0.13 | 0.142 | 0.19 | 0.3 | 0.106 | 0.129 | 0.22 | 0.13 | 0.13 |
| **9/29/2024** | 0.02 | 0.01 | 0.01 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.03 | 0.03 | 0.006 | 0.03 | 0.03 | 0 | 0 | 0 | 0 | 0 |
| **9/30/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table 10 - October 2024 PWD Rain Gage Records**

| Date/RG | RG1 | RG2 | RG3 | RG4 | RG5 | RG6 | RG7 | RG8 | RG9 | RG10 | RG11 | RG12 | RG13 | RG14 | RG15 | RG16 | RG17 | RG18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/1/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/2/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/3/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/4/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/5/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/6/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/7/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/8/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/9/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/10/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/11/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/12/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/13/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/14/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/15/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/16/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/17/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/18/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/19/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/20/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/21/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/22/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/23/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/24/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/25/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/26/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/27/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/28/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/29/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/30/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/31/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table 11 - October 2024 PWD Rain Gage Records**

| Date/RG | RG19 | RG20 | RG21 | RG22 | RG23 | RG24 | RG25 | RG26 | RG27 | RG28 | RG29 | RG30 | RG31 | RG32 | RG33 | RG34 | RG35 | RG36 | RG37 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/1/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/2/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/3/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/4/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/5/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/6/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/7/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/8/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/9/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/10/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/11/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/12/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/13/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/14/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/15/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/16/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/17/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/18/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/19/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/20/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/21/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/22/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/23/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/24/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/25/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/26/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/27/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/28/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/29/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/30/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/31/2024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table 12 - November 2024 PWD Rain Gage Records**

| Date/RG | RG1 | RG2 | RG3 | RG4 | RG5 | RG6 | RG7 | RG8 | RG9 | RG10 | RG11 | RG12 | RG13 | RG14 | RG15 | RG16 | RG17 | RG18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **11/1/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/2/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/3/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/4/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/5/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/6/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/7/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/8/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/9/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/10/2024** | 0.185 | 0.21 | 0.14 | 0.1 | 0.16 | 0.13 | 0.09 | 0.14 | 0.17 | 0.12 | 0.16 | 0.14 | 0.16 | 0.13 | 0.1 | 0.17 | 0.1 | 0.13 |
| **11/11/2024** | 0.181 | 0.19 | 0.2 | 0.14 | 0.15 | 0.13 | 0.11 | 0.16 | 0.18 | 0.22 | 0.18 | 0.18 | 0.19 | 0.06 | 0.12 | 0.17 | 0.12 | 0.13 |
| **11/12/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/13/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/14/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/15/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/16/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/17/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/18/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/19/2024** | 0.042 | 0.05 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.03 | 0.05 | 0.06 | 0.05 |
| **11/20/2024** | 0.531 | 0.62 | 0.11 | 0.06 | 0.45 | 0.5 | 0.25 | 0.21 | 0.5 | 0.14 | 0.18 | 0.35 | 0.14 | 0.1 | 0.21 | 0.51 | 0.11 | 0.38 |
| **11/21/2024** | 0.493 | 0.5 | 0.93 | 0.97 | 0.54 | 0.53 | 0.78 | 0.79 | 0.55 | 1.09 | 0.98 | 0.51 | 0.85 | 0.65 | 0.39 | 0.71 | 0.82 | 0.42 |
| **11/22/2024** | 0.287 | 0.27 | 0.3 | 0.26 | 0.26 | 0.2 | 0.2 | 0.27 | 0.3 | 0.38 | 0.3 | 0.3 | 0.35 | 0.231 | 0.2 | 0.28 | 0.25 | 0.24 |
| **11/23/2024** | 0 | 0 | 0 | 0.01 | 0.01 | 0.01 | 0.01 | 0 | 0.01 | 0.01 | 0.01 | 0 | 0.01 | 0.007 | 0.01 | 0 | 0 | 0.01 |
| **11/24/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/25/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/26/2024** | 0.219 | 0.23 | 0.25 | 0.22 | 0.25 | 0.2 | 0.19 | 0.203 | 0.13 | 0.31 | 0.22 | 0.22 | 0.22 | 0.15 | 0.1 | 0.19 | 0.19 | 0.2 |
| **11/27/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/28/2024** | 0.756 | 0.83 | 0.78 | 0.81 | 0.79 | 0.74 | 0.75 | 0.757 | 0.8 | 0.79 | 0.78 | 0.68 | 0.79 | 0.58 | 0.45 | 0.84 | 0.72 | 0.63 |
| **11/29/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/30/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table 13 - November 2024 PWD Rain Gage Records**

| Date/RG | RG19 | RG20 | RG21 | RG22 | RG23 | RG24 | RG25 | RG26 | RG27 | RG28 | RG29 | RG30 | RG31 | RG32 | RG33 | RG34 | RG35 | RG36 | RG37 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **11/1/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/2/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/3/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/4/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/5/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/6/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/7/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/8/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/9/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/10/2024** | 0.16 | 0.134 | 0.16 | 0.19 | 0.18 | 0.13 | 0.164 | 0.113 | 0.14 | 0.134 | 0.15 | 0.147 | 0.13 | 0.17 | 0.196 | 0.172 | 0.168 | 0.19 | 0.16 |
| **11/11/2024** | 0.17 | 0.214 | 0.18 | 0.17 | 0.18 | 0.22 | 0.165 | 0.127 | 0.23 | 0.215 | 0.21 | 0.174 | 0.21 | 0.21 | 0.18 | 0.164 | 0.172 | 0.18 | 0.18 |
| **11/12/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/13/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/14/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/15/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/16/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/17/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/18/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/19/2024** | 0.03 | 0.03 | 0.04 | 0.05 | 0.04 | 0.02 | 0.04 | 0.02 | 0.03 | 0.03 | 0.03 | 0.037 | 0.03 | 0.07 | 0.05 | 0.046 | 0.04 | 0.04 | 0.04 |
| **11/20/2024** | 0.43 | 0.06 | 0.36 | 0.53 | 0.53 | 0.1 | 0.49 | 0.34 | 0.1 | 0.11 | 0.36 | 0.204 | 0.16 | 0.1 | 0.53 | 0.499 | 0.4 | 0.4 | 0.11 |
| **11/21/2024** | 0.79 | 1.02 | 0.59 | 0.46 | 0.48 | 0.98 | 0.49 | 0.78 | 0.81 | 0.93 | 0.83 | 0.897 | 1.03 | 0.97 | 0.34 | 0.478 | 0.57 | 0.56 | 0.92 |
| **11/22/2024** | 0.32 | 0.24 | 0.32 | 0.29 | 0.3 | 0.32 | 0.22 | 0.27 | 0.29 | 0.28 | 0.34 | 0.304 | 0.41 | 0.32 | 0.26 | 0.267 | 0.31 | 0.34 | 0.27 |
| **11/23/2024** | 0.01 | 0.01 | 0.01 | 0.01 | 0 | 0 | 0 | 0.02 | 0.01 | 0.01 | 0.01 | 0.007 | 0 | 0.01 | 0.01 | 0.008 | 0.009 | 0.01 | 0.01 |
| **11/24/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/25/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/26/2024** | 0.31 | 0.17 | 0.17 | 0.1 | 0.22 | 0.3 | 0.2 | 0.18 | 0.17 | 0.26 | 0.13 | 0.235 | 0.26 | 0.15 | 0.17 | 0.174 | 0.29 | 0.28 | 0.219 |
| **11/27/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/28/2024** | 0.74 | 0.74 | 0.73 | 0.64 | 0.74 | 0.76 | 0.74 | 0.8 | 0.75 | 0.8 | 0.71 | 0.771 | 0.84 | 0.77 | 0.72 | 0.723 | 0.81 | 0.78 | 0.712 |
| **11/29/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **11/30/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table 14 – December 2024 PWD Rain Gage Records**

| Date/RG | RG1 | RG2 | RG3 | RG4 | RG5 | RG6 | RG7 | RG8 | RG9 | RG10 | RG11 | RG12 | RG13 | RG14 | RG15 | RG16 | RG17 | RG18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **12/1/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/2/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/3/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/4/2024** | 0.002 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0.005 | 0 | 0.02 | 0.01 | 0 | 0.02 | 0 | 0 | 0 | 0.01 | 0 |
| **12/5/2024** | 0.022 | 0.03 | 0.06 | 0.04 | 0.03 | 0.03 | 0.04 | 0.044 | 0.04 | 0.06 | 0.05 | 0.04 | 0.06 | 0.05 | 0.04 | 0.03 | 0.04 | 0.02 |
| **12/6/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/7/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/8/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/9/2024** | 0.004 | 0.02 | 0.061 | 0.06 | 0.01 | 0.03 | 0.04 | 0.044 | 0.02 | 0.07 | 0.05 | 0.01 | 0.06 | 0.03 | 0.02 | 0.04 | 0.05 | 0.04 |
| **12/10/2024** | 0.144 | 0.18 | 0.139 | 0.11 | 0.05 | 0.18 | 0.2 | 0.179 | 0.16 | 0.08 | 0.17 | 0.09 | 0.16 | 0.07 | 0.07 | 0.15 | 0.12 | 0.11 |
| **12/11/2024** | 0.906 | 0.91 | 0.882 | 0.85 | 0.88 | 0.82 | 0.79 | 0.818 | 0.93 | 0.86 | 0.85 | 0.86 | 0.91 | 0.81 | 0.5 | 0.96 | 0.79 | 0.74 |
| **12/12/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/13/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/14/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/15/2024** | 0.12 | 0.12 | 0.121 | 0.1 | 0.11 | 0.14 | 0.12 | 0.14 | 0.15 | 0.14 | 0.14 | 0.11 | 0.12 | 0.107 | 0.06 | 0.12 | 0.1 | 0.13 |
| **12/16/2024** | 0.73 | 0.81 | 0.847 | 0.83 | 0.77 | 0.82 | 0.77 | 0.76 | 0.84 | 0.91 | 0.79 | 0.58 | 0.85 | 0.677 | 0.46 | 0.87 | 0.7 | 0.72 |
| **12/17/2024** | 0.03 | 0.04 | 0.038 | 0.04 | 0.02 | 0.03 | 0.03 | 0.04 | 0.03 | 0.03 | 0.05 | 0.03 | 0.04 | 0.03 | 0.03 | 0.04 | 0.04 | 0.03 |
| **12/18/2024** | 0.17 | 0.18 | 0.144 | 0.16 | 0.16 | 0.15 | 0.15 | 0.14 | 0.15 | 0.16 | 0.13 | 0.15 | 0.14 | 0.139 | 0.1 | 0.19 | 0.15 | 0.11 |
| **12/19/2024** | 0.019 | 0.02 | 0.02 | 0.03 | 0.01 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.017 | 0.01 | 0.02 | 0.02 | 0.02 |
| **12/20/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/21/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/22/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/23/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/24/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/25/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/26/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/27/2024** | 0.008 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/28/2024** | 0.526 | 0.56 | 0.65 | 0.64 | 0.5 | 0.63 | 0.639 | 0.65 | 0.61 | 0.72 | 0.66 | 0.49 | 0.68 | 0.521 | 0.33 | 0.61 | 0.59 | 0.66 |
| **12/29/2024** | 0.333 | 0.43 | 0.42 | 0.34 | 0.3 | 0.36 | 0.342 | 0.34 | 0.43 | 0.39 | 0.36 | 0.26 | 0.42 | 0.294 | 0.18 | 0.33 | 0.36 | 0.4 |
| **12/30/2024** | 0.089 | 0.07 | 0.25 | 0.27 | 0.13 | 0.06 | 0.215 | 0.23 | 0.1 | 0.24 | 0.2 | 0.14 | 0.22 | 0.154 | 0.08 | 0.14 | 0.15 | 0.1 |
| **12/31/2024** | 0.253 | 0.27 | 0.19 | 0.21 | 0.32 | 0.26 | 0.2 | 0.24 | 0.32 | 0.22 | 0.24 | 0.28 | 0.21 | 0.21 | 0.15 | 0.34 | 0.2 | 0.34 |

**Table 15 - December 2024 PWD Rain Gage Records**

| Date/RG | RG19 | RG20 | RG21 | RG22 | RG23 | RG24 | RG25 | RG26 | RG27 | RG28 | RG29 | RG30 | RG31 | RG32 | RG33 | RG34 | RG35 | RG36 | RG37 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **12/1/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/2/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/3/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/4/2024** | 0.02 | 0.01 | 0.01 | 0.01 | 0 | 0.01 | 0 | 0 | 0.01 | 0.01 | 0.02 | 0.013 | 0.04 | 0.03 | 0.01 | 0.009 | 0.02 | 0.03 | 0 |
| **12/5/2024** | 0.04 | 0.04 | 0.04 | 0 | 0.02 | 0.06 | 0.02 | 0.05 | 0.06 | 0.06 | 0.04 | 0.049 | 0.06 | 0.06 | 0.03 | 0.024 | 0.04 | 0.05 | 0.034 |
| **12/6/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/7/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/8/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/9/2024** | 0.04 | 0.06 | 0.04 | 0.01 | 0 | 0.07 | 0.01 | 0.04 | 0.06 | 0.08 | 0.06 | 0.051 | 0.08 | 0.11 | 0.03 | 0.022 | 0.04 | 0.03 | 0.009 |
| **12/10/2024** | 0.15 | 0.12 | 0.13 | 0.19 | 0.14 | 0.1 | 0.1 | 0.19 | 0.11 | 0.12 | 0.13 | 0.152 | 0.14 | 0.11 | 0.21 | 0.171 | 0.12 | 0.14 | 0.094 |
| **12/11/2024** | 0.87 | 0.73 | 0.99 | 0.71 | 0.91 | 0.76 | 0.84 | 0.89 | 0.8 | 0.81 | 1.11 | 0.858 | 0.91 | 0.87 | 0.96 | 0.865 | 1.04 | 0.91 | 0.86 |
| **12/12/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/13/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/14/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/15/2024** | 0.15 | 0.09 | 0.17 | 0.13 | 0.12 | 0.11 | 0.11 | 0.12 | 0.1 | 0.12 | 0.15 | 0.136 | 0.13 | 0.11 | 0.14 | 0.141 | 0.17 | 0.15 | 0.13 |
| **12/16/2024** | 0.79 | 0.73 | 0.79 | 0.61 | 0.72 | 0.79 | 0.73 | 0.86 | 0.76 | 0.83 | 0.76 | 0.794 | 0.89 | 0.81 | 0.75 | 0.741 | 0.8 | 0.88 | 0.77 |
| **12/17/2024** | 0.02 | 0.03 | 0.02 | 0.02 | 0.03 | 0.02 | 0.02 | 0.03 | 0.04 | 0.04 | 0.02 | 0.04 | 0.02 | 0.03 | 0.03 | 0.025 | 0.02 | 0.03 | 0.03 |
| **12/18/2024** | 0.16 | 0.13 | 0.18 | 0.06 | 0.17 | 0.14 | 0.16 | 0.16 | 0.14 | 0.136 | 0.19 | 0.139 | 0.17 | 0.15 | 0.14 | 0.128 | 0.18 | 0.16 | 0.16 |
| **12/19/2024** | 0.02 | 0.02 | 0.01 | 0 | 0.02 | 0.01 | 0.02 | 0.02 | 0.02 | 0.016 | 0.01 | 0.021 | 0.02 | 0.01 | 0.02 | 0.015 | 0.02 | 0.02 | 0.02 |
| **12/20/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/21/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/22/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/23/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/24/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/25/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/26/2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12/27/2024** | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.002 | 0 | 0 | 0.01 |
| **12/28/2024** | 0.72 | 0.56 | 0.67 | 0.63 | 0.52 | 0.65 | 0.51 | 0.61 | 0.59 | 0.64 | 0.66 | 0.666 | 0.68 | 0.68 | 0.56 | 0.61 | 0.7 | 0.7 | 0.53 |
| **12/29/2024** | 0.38 | 0.39 | 0.4 | 0.42 | 0.32 | 0.42 | 0.32 | 0.31 | 0.4 | 0.4 | 0.37 | 0.365 | 0.39 | 0.42 | 0.35 | 0.39 | 0.44 | 0.41 | 0.28 |
| **12/30/2024** | 0.15 | 0.31 | 0.09 | 0.07 | 0.09 | 0.2 | 0.1 | 0.23 | 0.27 | 0.33 | 0.15 | 0.21 | 0.37 | 0.29 | 0.06 | 0.081 | 0.1 | 0.12 | 0.12 |
| **12/31/2024** | 0.4 | 0.19 | 0.34 | 0.19 | 0.25 | 0.21 | 0.24 | 0.31 | 0.16 | 0.17 | 0.5 | 0.25 | 0.24 | 0.23 | 0.22 | 0.248 | 0.26 | 0.41 | 0.33 |

**Table 16 - January 2025 PWD Rain Gage Records**

| Date/RG | RG1 | RG2 | RG3 | RG4 | RG5 | RG6 | RG7 | RG8 | RG9 | RG10 | RG11 | RG12 | RG13 | RG14 | RG15 | RG16 | RG17 | RG18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1/1/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/2/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/3/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/4/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/5/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/6/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/7/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/8/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/9/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/10/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/11/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/12/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/13/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/14/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/15/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/16/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/17/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/18/2025** | 0.025 | 0.04 | 0.04 | 0.03 | 0.04 | 0.03 | 0.04 | 0.05 | 0.02 | 0.05 | 0.05 | 0.04 | 0.04 | 0.036 | 0.02 | 0.04 | 0.04 | 0.03 |
| **1/19/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/20/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/21/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/22/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/23/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/24/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/25/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/26/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/27/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/28/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/29/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/30/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1/31/2025** | 0.537 | 0.54 | 0.41 | 0.41 | 0.48 | 0.47 | 0.427 | 0.47 | 0.554 | 0.42 | 0.86 | 0.52 | 0.24 | 0.475 | 0.31 | 0.56 | 0.4 | 0.4 |

**Table 17 - January 2025 PWD Rain Gage Records**

| Date/RG | RG19 | RG20 | RG21 | RG22 | RG23 | RG24 | RG25 | RG26 | RG27 | RG28 | RG29 | RG30 | RG31 | RG32 | RG33 | RG34 | RG35 | RG36 | RG37 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/1/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/2/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/3/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/4/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/5/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/6/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/7/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/8/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/9/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/10/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/11/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/12/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/13/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/14/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/15/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/16/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/17/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/18/2025 | 0.04 | 0.04 | 0.03 | 0.02 | 0.02 | 0.04 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.047 | 0.05 | 0.05 | 0.03 | 0.027 | 0.03 | 0.04 | 0.04 |
| 1/19/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/20/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/21/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/22/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/23/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/24/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/25/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/26/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/27/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/28/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/29/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/30/2025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1/31/2025 | 0.43 | 0.4 | 0.42 | 0.57 | 0.54 | 0.46 | 0.48 | 0.476 | 0.41 | 0.41 | 0.36 | 0.59 | 0.42 | 0.41 | 0.54 | 0.521 | 0.48 | 0.49 | 0.52 |

**Table 18 – February 2025 PWD Rain Gage Records**

| Date/RG | RG1 | RG2 | RG3 | RG4 | RG5 | RG6 | RG7 | RG8 | RG9 | RG10 | RG11 | RG12 | RG13 | RG14 | RG15 | RG16 | RG17 | RG18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2/1/2025** | 0.037 | 0.03 | 0.02 | 0.04 | 0.04 | 0.01 | 0.022 | 0.02 | 0.02 | 0.02 | 0.02 | 0.04 | 0.01 | 0.03 | 0.023 | 0.03 | 0.02 | 0.01 |
| **2/2/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0.001 | 0 | 0 | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| **2/3/2025** | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/4/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/5/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/6/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/7/2025** | 0.002 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| **2/8/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/9/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/10/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/11/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/12/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/13/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/14/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/15/2025** | 0.369 | 0.39 | 0.36 | 0.37 | 0.35 | 0.34 | 0.33 | 0.34 | 0.36 | 0.37 | 0.32 | 0.3 | 0.39 | 0.25 | 0.348 | 0.41 | 0.32 | 0.32 |
| **2/16/2025** | 0.551 | 0.61 | 0.62 | 0.64 | 0.59 | 0.67 | 0.609 | 0.61 | 0.69 | 0.74 | 0.6 | 0.51 | 0.61 | 0.596 | 0.653 | 0.63 | 0.54 | 0.56 |
| **2/17/2025** | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/18/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/19/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/20/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/21/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/22/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/23/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/24/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/25/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/26/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/27/2025** | 0.014 | 0.03 | 0.02 | 0.03 | 0.01 | 0.02 | 0.03 | 0.02 | 0.01 | 0.02 | 0.02 | 0.03 | 0.02 | 0.026 | 0.02 | 0.03 | 0.04 | 0.01 |
| **2/28/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table 19 - February 2025 PWD Rain Gage Records**

| Date/RG | RG19 | RG20 | RG21 | RG22 | RG23 | RG24 | RG25 | RG26 | RG27 | RG28 | RG29 | RG30 | RG31 | RG32 | RG33 | RG34 | RG35 | RG36 | RG37 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2/1/2025** | 0.01 | 0.02 | 0.01 | 0.01 | 0.04 | 0.01 | 0.03 | 0.02 | 0.03 | 0.02 | 0.01 | 0.017 | 0.01 | 0.01 | 0.02 | 0.015 | 0.01 | 0.01 | 0.04 |
| **2/2/2025** | 0.01 | 0 | 0 | 0.01 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0.005 | 0 | 0 | 0 | 0.004 | 0.01 | 0 | 0.01 |
| **2/3/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0.02 | 0.002 | 0.03 | 0.03 | 0.01 | 0.002 | 0 | 0 | 0 |
| **2/4/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/5/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/6/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/7/2025** | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.003 | 0 | 0 | 0 |
| **2/8/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/9/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/10/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/11/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/12/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/13/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.001 | 0.01 | 0 | 0 |
| **2/14/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/15/2025** | 0.34 | 0.3 | 0.34 | 0.38 | 0.37 | 0.32 | 0.33 | 0.36 | 0.35 | 0.32 | 0.35 | 0.336 | 0.37 | 0.33 | 0.37 | 0.363 | 0.34 | 0.36 | 0.38 |
| **2/16/2025** | 0.66 | 0.55 | 0.8 | 0.68 | 0.54 | 0.69 | 0.52 | 0.68 | 0.54 | 0.64 | 0.86 | 0.625 | 0.75 | 0.83 | 0.68 | 0.677 | 0.74 | 0.71 | 0.62 |
| **2/17/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.005 | 0 | 0 | 0 |
| **2/18/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/19/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/20/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/21/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/22/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/23/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/24/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/25/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/26/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2/27/2025** | 0.01 | 0.02 | 0.01 | 0.02 | 0.01 | 0.02 | 0.01 | 0.02 | 0.03 | 0.02 | 0.01 | 0.019 | 0.02 | 0.02 | 0.01 | 0.014 | 0.02 | 0.01 | 0.03 |
| **2/28/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table 20 – March 2025 PWD Rain Gage Records**

| Date/RG | RG1 | RG2 | RG3 | RG4 | RG5 | RG6 | RG7 | RG8 | RG9 | RG10 | RG11 | RG12 | RG13 | RG14 | RG15 | RG16 | RG17 | RG18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **3/1/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/2/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/3/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/4/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/5/2025** | 1.57 | 1.67 | 1.44 | 1.56 | 1.49 | 1.8 | 1.359 | 1.39 | 2.29 | 1.5 | 1.33 | 1.57 | 1.5 | 1.32 | 0.8 | 1.52 | 1.34 | 0.37 |
| **3/6/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/7/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/8/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/9/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/10/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/11/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/12/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/13/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/14/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/15/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/16/2025** | 0.428 | 0.25 | 0.17 | 0.28 | 0.47 | 0.3 | 0.198 | 0.17 | 0.2 | 0.28 | 0.16 | 0.73 | 0.18 | 0.5 | 0.23 | 0.36 | 0.19 | 0.17 |
| **3/17/2025** | 0.905 | 0.88 | 1.14 | 1.37 | 1.1 | 0.75 | 0.99 | 0.99 | 0.8 | 0.96 | 0.95 | 1.11 | 1.06 | 1.15 | 0.63 | 0.98 | 1.04 | 0.8 |
| **3/18/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/19/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/20/2025** | 0.597 | 0.61 | 0.6 | 0.64 | 0.56 | 0.56 | 0.516 | 0.53 | 0.56 | 0.58 | 0.52 | 0.54 | 0.55 | 0.22 | 0.32 | 0.6 | 0.6 | 0.45 |
| **3/21/2025** | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.008 | 0.01 | 0 | 0.01 | 0.01 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| **3/22/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/23/2025** | 0.019 | 0.02 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| **3/24/2025** | 0.52 | 0.51 | 0.5 | 0.59 | 0.56 | 1.44 | 0.501 | 0.5 | 0.43 | 0.46 | 0.49 | 0.57 | 0.53 | 0.47 | 0.34 | 0.6 | 0.52 | 0.45 |
| **3/25/2025** | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/26/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/27/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/28/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/29/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/30/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/31/2025** | 1.218 | 1.39 | 1.65 | 1.36 | 1.14 | 1.27 | 1.326 | 1.39 | 1.15 | 1.6 | 1.37 | 1.17 | 1.68 | 0.26 | 0.62 | 1.25 | 1.54 | 1.23 |

**Table 21 - March 2025 PWD Rain Gage Records**

| Date/RG | RG19 | RG20 | RG21 | RG22 | RG23 | RG24 | RG25 | RG26 | RG27 | RG28 | RG29 | RG30 | RG31 | RG32 | RG33 | RG34 | RG35 | RG36 | RG37 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **3/1/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/2/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/3/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/4/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/5/2025** | 1.64 | 1.49 | 1.6 | 2.34 | 1.56 | 1.43 | 1.34 | 1.32 | 1.49 | 1.45 | 1.95 | 1.406 | 1.59 | 1.59 | 1.812 | 1.949 | 1.52 | 2.25 | 1.53 |
| **3/6/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/7/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/8/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/9/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/10/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/11/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/12/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/13/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/14/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/15/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/16/2025** | 0.32 | 0.18 | 0.21 | 0.22 | 0.46 | 0.27 | 0.44 | 0.24 | 0.15 | 0.18 | 0.18 | 0.197 | 0.29 | 0.29 | 0.267 | 0.248 | 0.22 | 0.25 | 0.64 |
| **3/17/2025** | 0.74 | 1.148 | 0.73 | 0.76 | 0.9 | 0.98 | 0.92 | 0.95 | 1.15 | 1.15 | 0.72 | 0.949 | 0.85 | 0.89 | 0.855 | 0.783 | 0.74 | 0.75 | 1.16 |
| **3/18/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/19/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/20/2025** | 0.56 | 0.628 | 0.54 | 0.57 | 0.6 | 0.6 | 0.56 | 0.58 | 0.61 | 0.65 | 0.57 | 0.537 | 0.51 | 0.6 | 0.593 | 0.566 | 0.58 | 0.57 | 0.56 |
| **3/21/2025** | 0 | 0.005 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0.01 | 0 | 0.008 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| **3/22/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/23/2025** | 0 | 0 | 0 | 0.01 | 0.02 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.015 | 0.005 | 0 | 0 | 0.02 |
| **3/24/2025** | 0.38 | 1.106 | 0.33 | 0.43 | 0.52 | 0.45 | 0.47 | 0.49 | 0.57 | 0.47 | 1.38 | 0.493 | 0.37 | 0.44 | 0.525 | 0.688 | 1.08 | 0.41 | 0.59 |
| **3/25/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.002 | 0 | 0 | 0 |
| **3/26/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/27/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/28/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/29/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/30/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3/31/2025** | 1.47 | 1.24 | 1.68 | 1.15 | 1.2 | 1.53 | 1 | 1.36 | 1.47 | 1.47 | 1.52 | 1.431 | 1.5 | 1.56 | 1.16 | 1.249 | 1.57 | 1.33 | 1.21 |

**Table 22 - April 2025 PWD Rain Gage Records**

| Date/RG | RG1 | RG2 | RG3 | RG4 | RG5 | RG6 | RG7 | RG8 | RG9 | RG10 | RG11 | RG12 | RG13 | RG14 | RG15 | RG16 | RG17 | RG18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **4/1/2025** | 0.218 | 0.18 | 0.24 | 0.18 | 0.22 | 0.17 | 0.34 | 0.26 | 0.19 | 0.14 | 0.28 | 0.14 | 0.26 | 0.27 | 0.252 | 0.21 | 0.23 | 0.19 |
| **4/2/2025** | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/3/2025** | 0.056 | 0.05 | 0.03 | 0.04 | 0.03 | 0.04 | 0.01 | 0.03 | 0.03 | 0.03 | 0.03 | 0.07 | 0.03 | 0.04 | 0.034 | 0.07 | 0.03 | 0.02 |
| **4/4/2025** | 1.001 | 0.8 | 0.36 | 0.5 | 0.86 | 0.57 | 0.53 | 0.43 | 0.7 | 0.35 | 0.37 | 0.84 | 0.34 | 0.25 | 0.606 | 0.77 | 0.45 | 0.5 |
| **4/5/2025** | 0.023 | 0.04 | 0.04 | 0.06 | 0.02 | 0.02 | 0.01 | 0.02 | 0 | 0.02 | 0.02 | 0.03 | 0.03 | 0.01 | 0.027 | 0.04 | 0.03 | 0.02 |
| **4/6/2025** | 0.032 | 0.04 | 0.02 | 0.01 | 0.02 | 0.03 | 0 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0 | 0.012 | 0.03 | 0.01 | 0.02 |
| **4/7/2025** | 0.244 | 0.26 | 0.17 | 0.19 | 0.31 | 0.18 | 0.14 | 0.16 | 0.17 | 0.18 | 0.17 | 0.21 | 0.19 | 0.21 | 0.208 | 0.25 | 0.15 | 0.14 |
| **4/8/2025** | 0.007 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/9/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/10/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/11/2025** | 1.107 | 1.22 | 1.04 | 1.35 | 1.26 | 1.02 | 0.98 | 1.06 | 1.01 | 1.05 | 1.02 | 0.97 | 1.09 | 1.214 | 1.12 | 1.15 | 0.94 | 0.77 |
| **4/12/2025** | 0.157 | 0.21 | 0.38 | 0.31 | 0.22 | 0.27 | 0.302 | 0.31 | 0.22 | 0.45 | 0.32 | 0.13 | 0.38 | 0.28 | 0.297 | 0.23 | 0.29 | 0.21 |
| **4/13/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/14/2025** | 0.002 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/15/2025** | 0.001 | 0 | 0 | 0 | 0.01 | 0.02 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0.002 | 0.01 | 0 | 0 |
| **4/16/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/17/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/18/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/19/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/20/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/21/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/22/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/23/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/24/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/25/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| **4/26/2025** | 0.269 | 0.78 | 0.75 | 0.81 | 0.78 | 0.25 | 0.26 | 0.56 | 0.41 | 0.32 | 0.68 | 0.24 | 0.97 | 0.16 | 0.282 | 0.68 | 0.52 | 0.3 |
| **4/27/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/28/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/29/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/30/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table 23 – April 2025 PWD Rain Gage Records**

| Date/RG | RG19 | RG20 | RG21 | RG22 | RG23 | RG24 | RG25 | RG26 | RG27 | RG28 | RG29 | RG30 | RG31 | RG32 | RG33 | RG34 | RG35 | RG36 | RG37 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **4/1/2025** | 0.18 | 0.1 | 0.21 | 0.21 | 0.23 | 0.08 | 0.17 | 0.26 | 0.13 | 0.08 | 0.14 | 0.242 | 0.08 | 0.07 | 0.22 | 0.201 | 0.2 | 0.19 | 0.23 |
| **4/2/2025** | 0 | 0.01 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0.01 | 0.02 | 0.01 | 0.001 | 0.01 | 0.04 | 0 | 0 | 0 | 0 | 0.01 |
| **4/3/2025** | 0.02 | 0.02 | 0.02 | 0.03 | 0.06 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.05 | 0.028 | 0.03 | 0.03 | 0.04 | 0.033 | 0.03 | 0.02 | 0.06 |
| **4/4/2025** | 0.33 | 0.35 | 0.38 | 0.72 | 1.07 | 0.39 | 0.74 | 0.63 | 0.35 | 0.39 | 0.37 | 0.392 | 0.41 | 0.4 | 0.73 | 0.642 | 0.37 | 0.4 | 0.98 |
| **4/5/2025** | 0.01 | 0.02 | 0 | 0 | 0.02 | 0.01 | 0.01 | 0.03 | 0.04 | 0.02 | 0.03 | 0.019 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0 | 0.03 |
| **4/6/2025** | 0.01 | 0 | 0.01 | 0.02 | 0.03 | 0 | 0.02 | 0.01 | 0.01 | 0 | 0.01 | 0.022 | 0 | 0.01 | 0.03 | 0.022 | 0.01 | 0.01 | 0.04 |
| **4/7/2025** | 0.15 | 0.15 | 0.2 | 0.19 | 0.24 | 0.15 | 0.27 | 0.21 | 0.16 | 0.17 | 0.18 | 0.163 | 0.15 | 0.2 | 0.2 | 0.19 | 0.18 | 0.14 | 0.32 |
| **4/8/2025** | 0 | 0 | 0 | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.01 | 0.01 | 0.003 | 0.01 | 0 | 0 |
| **4/9/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/10/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/11/2025** | 0.87 | 1.09 | 1.07 | 1.05 | 1.07 | 0.94 | 1.16 | 1.12 | 1.07 | 1.09 | 0.91 | 1.019 | 0.98 | 1.002 | 1.18 | 1.061 | 0.98 | 0.93 | 1.35 |
| **4/12/2025** | 0.3 | 0.28 | 0.36 | 0.27 | 0.14 | 0.4 | 0.21 | 0.32 | 0.34 | 0.43 | 0.39 | 0.333 | 0.44 | 0.398 | 0.33 | 0.279 | 0.32 | 0.25 | 0.18 |
| **4/13/2025** | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/14/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.004 | 0 | 0 | 0.01 |
| **4/15/2025** | 0 | 0 | 0 | 0.01 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.007 | 0.01 | 0 | 0 |
| **4/16/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/17/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/18/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/19/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/20/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/21/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0.003 | 0 | 0.002 | 0 | 0 | 0 | 0 | 0 |
| **4/22/2025** | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.005 | 0 | 0 | 0 | 0 | 0 |
| **4/23/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/24/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/25/2025** | 0.01 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0.002 | 0 | 0 | 0 | 0.001 | 0 | 0.02 | 0 |
| **4/26/2025** | 0.66 | 0.32 | 0.57 | 0.46 | 0.13 | 0.2 | 0.7 | 0.19 | 0.76 | 0.2 | 0.22 | 0.585 | 0.15 | 0.269 | 0.64 | 0.496 | 0.68 | 0.24 | 0.1 |
| **4/27/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/28/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/29/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4/30/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table 24 – May 2025 PWD Rain Gage Records**

| Date/RG | RG1 | RG2 | RG3 | RG4 | RG5 | RG6 | RG7 | RG8 | RG9 | RG10 | RG11 | RG12 | RG13 | RG14 | RG15 | RG16 | RG17 | RG18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **5/1/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/2/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/3/2025** | 0.009 | 0 | 0.02 | 0 | 0.01 | 1.04 | 0 | 0.06 | 0.62 | 0.61 | 0.1 | 0.01 | 0.05 | 0 | 0.032 | 0 | 0 | 0.61 |
| **5/4/2025** | 0.102 | 0.11 | 0.14 | 0.08 | 0.04 | 0.16 | 0.13 | 0.12 | 0.09 | 0.1 | 0.08 | 0.12 | 0.19 | 0.02 | 0.094 | 0.12 | 0.11 | 0.1 |
| **5/5/2025** | 0.125 | 0.14 | 0.01 | 0.01 | 0.6 | 0.51 | 0.01 | 0.02 | 0.49 | 0.01 | 0.02 | 0.97 | 0 | 0.03 | 0.075 | 0.05 | 0.02 | 0.01 |
| **5/6/2025** | 0.043 | 0.08 | 0 | 0.01 | 0 | 0.04 | 0.01 | 0.01 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.017 | 0 | 0.01 | 0.11 |
| **5/7/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/8/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/9/2025** | 0.2 | 0.18 | 0.17 | 0.15 | 0.12 | 0.24 | 0.16 | 0.2 | 0.2 | 0.21 | 0.18 | 0.12 | 0.17 | 0.17 | 0.169 | 0.23 | 0.14 | 0.15 |
| **5/10/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/11/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/12/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/13/2025** | 0.332 | 0.39 | 0.37 | 0.35 | 0.34 | 0.46 | 0.33 | 0.41 | 0.44 | 0.41 | 0.15 | 0.32 | 0.37 | 0.25 | 0.315 | 0.37 | 0.27 | 0.4 |
| **5/14/2025** | 1.287 | 1.51 | 2.384 | 2.39 | 1.38 | 1.96 | 1.33 | 1.47 | 1.85 | 2.11 | 1.602 | 1 | 1.94 | 1.37 | 1.183 | 1.74 | 1.49 | 1.14 |
| **5/15/2025** | 0.06 | 0.06 | 0.064 | 0.1 | 0.02 | 0.24 | 0.18 | 0.17 | 0.28 | 0.05 | 0.121 | 0.02 | 0.06 | 0 | 0.057 | 0.1 | 0.07 | 0.3 |
| **5/16/2025** | 1.387 | 1.73 | 0.807 | 1.35 | 1.58 | 0.74 | 0.8 | 0.69 | 0.96 | 0.62 | 0.766 | 1.23 | 0.87 | 0.9 | 0.707 | 1.01 | 0.85 | 0.59 |
| **5/17/2025** | 0.002 | 0.01 | 0.016 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0.01 | 0.011 | 0.01 | 0.02 | 0 | 0 | 0 | 0.01 | 0.02 |
| **5/18/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/19/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/20/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/21/2025** | 0.425 | 0.51 | 0.412 | 0.42 | 0.39 | 0.5 | 0.38 | 0.43 | 0.44 | 0.47 | 0.414 | 0.4 | 0.44 | 0.33 | 0.403 | 0.47 | 0.36 | 0.42 |
| **5/22/2025** | 0.448 | 0.47 | 0.52 | 0.54 | 0.44 | 0.43 | 0.42 | 0.46 | 0.47 | 0.49 | 0.448 | 0.32 | 0.5 | 0.41 | 0.375 | 0.5 | 0.38 | 0.38 |
| **5/23/2025** | 0.033 | 0.08 | 0.01 | 0 | 0.09 | 0.03 | 0.02 | 0.02 | 0.01 | 0.03 | 0.016 | 0.06 | 0.01 | 0.01 | 0.019 | 0.05 | 0.01 | 0.01 |
| **5/24/2025** | 0.001 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0.01 | 0.03 | 0 | 0.007 | 0.02 | 0 | 0 | 0.001 | 0.01 | 0.01 | 0 |
| **5/25/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/26/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/27/2025** | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/28/2025** | 0.749 | 0.87 | 0.71 | 0.71 | 0.72 | 0.78 | 0.71 | 0.71 | 0.81 | 0.73 | 0.702 | 0.52 | 0.74 | 0.64 | 0.71 | 0.89 | 0.62 | 0.63 |
| **5/29/2025** | 0.018 | 0.01 | 0.03 | 0.04 | 0.02 | 0.04 | 0.03 | 0.03 | 0.02 | 0.04 | 0.029 | 0.01 | 0.03 | 0.03 | 0.02 | 0.03 | 0.03 | 0.01 |
| **5/30/2025** | 0.945 | 1.11 | 0.66 | 0.64 | 0.89 | 1.2 | 0.68 | 0.61 | 1.21 | 0.63 | 0.648 | 0.83 | 0.69 | 0.49 | 0.661 | 0.98 | 0.68 | 0.75 |
| **5/31/2025** | 0.091 | 0.13 | 0.56 | 0.38 | 0.14 | 0.22 | 0.31 | 0.61 | 0.15 | 0.52 | 0.522 | 0.14 | 0.48 | 0.13 | 0.204 | 0.18 | 0.49 | 0.27 |

**Table 25 - May 2025 PWD Rain Gage Records**

| Date/RG | RG19 | RG20 | RG21 | RG22 | RG23 | RG24 | RG25 | RG26 | RG27 | RG28 | RG29 | RG30 | RG31 | RG32 | RG33 | RG34 | RG35 | RG36 | RG37 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **5/1/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/2/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/3/2025** | 0.98 | 0.01 | 0.56 | 0.88 | 0 | 0.56 | 0 | 0.01 | 0.01 | 0.12 | 0.35 | 0.227 | 0.86 | 0.427 | 0.21 | 0.604 | 0.61 | 1.11 | 0.04 |
| **5/4/2025** | 0.11 | 0.07 | 0.32 | 0.16 | 0.1 | 0.2 | 0.12 | 0.1 | 0.09 | 0.1 | 0.22 | 0.107 | 0.05 | 0.144 | 0.16 | 0.164 | 0.32 | 0.16 | 0.07 |
| **5/5/2025** | 0.04 | 0.05 | 0 | 0.31 | 0.07 | 0.02 | 0.73 | 0.05 | 0.01 | 0.09 | 0.01 | 0.021 | 0 | 0.033 | 0.02 | 0.26 | 0.4 | 0.02 | 0.31 |
| **5/6/2025** | 0.06 | 0.02 | 0.04 | 0.04 | 0.04 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.03 | 0.014 | 0.02 | 0.011 | 0.12 | 0.073 | 0.18 | 0.03 | 0.02 |
| **5/7/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/8/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/9/2025** | 0.24 | 0.15 | 0.28 | 0.23 | 0.21 | 0.17 | 0.14 | 0.16 | 0.12 | 0.2 | 0.31 | 0.188 | 0.18 | 0.177 | 0.22 | 0.225 | 0.27 | 0.23 | 0.13 |
| **5/10/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0.001 | 0.01 | 0 | 0 |
| **5/11/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/12/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/13/2025** | 0.44 | 0.44 | 0.53 | 0.37 | 0.32 | 0.54 | 0.3 | 0.31 | 0.41 | 0.52 | 0.46 | 0.298 | 0.42 | 0.486 | 0.4 | 0.415 | 0.54 | 0.48 | 0.33 |
| **5/14/2025** | 1.39 | 2.7 | 2.16 | 1.94 | 1.23 | 2.79 | 1.29 | 1.01 | 2.48 | 3.04 | 1.54 | 1.691 | 2.2 | 2.638 | 1.27 | 1.731 | 1.98 | 1.9 | 1.42 |
| **5/15/2025** | 0.18 | 0.03 | 0.21 | 0.13 | 0.06 | 0.12 | 0.06 | 0.04 | 0.1 | 0.04 | 0.36 | 0.134 | 0.04 | 0.087 | 0.04 | 0.165 | 0.36 | 0.3 | 0.06 |
| **5/16/2025** | 0.55 | 0.45 | 0.51 | 1.14 | 1.3 | 0.56 | 1.69 | 0.56 | 0.63 | 0.71 | 0.46 | 0.692 | 0.66 | 0.623 | 1.51 | 1.069 | 0.57 | 0.58 | 1.4 |
| **5/17/2025** | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0.01 | 0.008 | 0 | 0.001 | 0 | 0.002 | 0.02 | 0 | 0.01 |
| **5/18/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/19/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/20/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/21/2025** | 0.44 | 0.36 | 0.6 | 0.48 | 0.41 | 0.48 | 0.35 | 0.4 | 0.43 | 0.42 | 0.54 | 0.433 | 0.46 | 0.458 | 0.55 | 0.494 | 0.54 | 0.43 | 0.51 |
| **5/22/2025** | 0.37 | 0.56 | 0.4 | 0.45 | 0.45 | 0.62 | 0.39 | 0.34 | 0.56 | 0.65 | 0.4 | 0.449 | 0.51 | 0.588 | 0.51 | 0.452 | 0.44 | 0.37 | 0.53 |
| **5/23/2025** | 0.01 | 0.04 | 0 | 0.01 | 0.02 | 0.04 | 0.07 | 0.01 | 0.02 | 0.04 | 0.01 | 0.018 | 0.02 | 0.032 | 0.1 | 0.035 | 0.01 | 0.02 | 0.04 |
| **5/24/2025** | 0.01 | 0 | 0 | 0.01 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0.005 | 0 | 0 | 0.03 | 0.014 | 0.02 | 0.01 | 0.01 |
| **5/25/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/26/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5/27/2025** | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.003 | 0 | 0 | 0.01 |
| **5/28/2025** | 0.7 | 0.58 | 0.75 | 0.84 | 0.73 | 0.57 | 0.67 | 0.69 | 0.71 | 0.69 | 0.65 | 0.704 | 0.63 | 0.621 | 0.92 | 0.823 | 0.77 | 0.75 | 0.8 |
| **5/29/2025** | 0.02 | 0.03 | 0.03 | 0.03 | 0.02 | 0.03 | 0.02 | 0.02 | 0.04 | 0.04 | 0.03 | 0.026 | 0.02 | 0.028 | 0.02 | 0.025 | 0.04 | 0.02 | 0.02 |
| **5/30/2025** | 0.58 | 0.6 | 1.29 | 1.11 | 0.92 | 0.69 | 0.81 | 0.6 | 0.57 | 0.63 | 0.5 | 0.636 | 0.53 | 0.651 | 0.1 | 0.875 | 0.93 | 1.13 | 1.13 |
| **5/31/2025** | 0.56 | 0.33 | 0.32 | 0.17 | 0.08 | 0.26 | 0.08 | 0.2 | 0.33 | 0.48 | 1.08 | 0.521 | 0.46 | 0.253 | 0.13 | 0.208 | 0.45 | 0.29 | 0.13 |

**Table 26 - June 2025 PWD Rain Gage Records**

| Date/RG | RG1 | RG2 | RG3 | RG4 | RG5 | RG6 | RG7 | RG8 | RG9 | RG10 | RG11 | RG12 | RG13 | RG14 | RG15 | RG16 | RG17 | RG18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **6/1/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/2/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/3/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/4/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/5/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/6/2025** | 0.004 | 0.01 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0.005 | 0 | 0 | 0.06 |
| **6/7/2025** | 0.02 | 0.02 | 0.06 | 0.04 | 0.08 | 0.16 | 0.01 | 0.05 | 0.03 | 0.06 | 0.03 | 0.18 | 0.07 | 0 | 0.145 | 0.16 | 0.05 | 0.3 |
| **6/8/2025** | 0.014 | 0.03 | 0.03 | 0.02 | 0.01 | 0.03 | 0.01 | 0.03 | 0.03 | 0.04 | 0 | 0.02 | 0.03 | 0 | 0.016 | 0.02 | 0.01 | 0.03 |
| **6/9/2025** | 0.028 | 0.02 | 0.04 | 0.04 | 0.03 | 0.07 | 0.02 | 0.03 | 0.03 | 0.04 | 0.01 | 0.04 | 0.04 | 0.05 | 0.008 | 0.01 | 0.02 | 0.04 |
| **6/10/2025** | 0.247 | 0.49 | 0.13 | 0.16 | 0.2 | 0.74 | 0.17 | 0.21 | 0.44 | 0.42 | 0 | 0.12 | 0.13 | 0.22 | 0.15 | 0.24 | 0.15 | 0.45 |
| **6/11/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/12/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/13/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/14/2025** | 0.021 | 0.02 | 0.34 | 0.38 | 0.05 | 0.11 | 0.17 | 0.22 | 0.04 | 0.33 | 0.221 | 0.02 | 0.35 | 0.08 | 0.086 | 0.05 | 0.2 | 0.11 |
| **6/15/2025** | 0.509 | 0.51 | 0.5 | 0.59 | 0.72 | 0.57 | 0.72 | 0.74 | 0.51 | 0.57 | 0.677 | 0.54 | 0.61 | 0.67 | 0.645 | 0.6 | 0.62 | 0.74 |
| **6/16/2025** | 0.009 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0 | 0.01 | 0.01 | 0 | 0.02 | 0 | 0.009 | 0.02 | 0.01 | 0.01 |
| **6/17/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/18/2025** | 0.096 | 0.16 | 0.23 | 0.19 | 0.15 | 0.19 | 0.15 | 0.24 | 0.16 | 0.16 | 0.25 | 0.09 | 0.27 | 0.164 | 0.135 | 0.12 | 0.16 | 0.19 |
| **6/19/2025** | 0.509 | 0.36 | 0.38 | 0.22 | 0.48 | 0.4 | 0.19 | 0.35 | 0.51 | 0.63 | 0.4 | 0.58 | 0.31 | 0.247 | 0.243 | 0.24 | 0.2 | 0.24 |
| **6/20/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/21/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/22/2025** | 0.002 | 0.01 | 0.01 | 0.01 | 0 | 0.02 | 0.01 | 0.04 | 0.01 | 0.02 | 0.02 | 0 | 0.01 | 0 | 0.011 | 0.02 | 0.01 | 0.02 |
| **6/23/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/24/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/25/2025** | 0.296 | 0.73 | 0.16 | 0.01 | 0.18 | 0.01 | 0 | 0.01 | 0.02 | 0 | 0 | 0.48 | 0.08 | 0 | 0.02 | 0.05 | 0 | 0 |
| **6/26/2025** | 0.121 | 0.12 | 0.09 | 0.09 | 0.12 | 0.09 | 0.06 | 0.09 | 0.09 | 0.07 | 0.09 | 0.1 | 0.09 | 0.08 | 0.088 | 0.14 | 0.07 | 0.08 |
| **6/27/2025** | 0.002 | 0.01 | 0 | 0 | 0 | 0.01 | 0 | 0.01 | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| **6/28/2025** | 0.035 | 0.06 | 0.09 | 0.02 | 0.05 | 0.06 | 0.02 | 0.08 | 0.05 | 0.08 | 0.09 | 0.02 | 0.09 | 0 | 0.035 | 0.02 | 0.03 | 0.06 |
| **6/29/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/30/2025** | 0.643 | 0.49 | 0.51 | 0.59 | 0.2 | 0.64 | 1.02 | 1.21 | 0.53 | 0.4 | 0.95 | 0.33 | 0.69 | 0.865 | 0.527 | 0.51 | 0.843 | 0.67 |

**Table 27 - June 2025 PWD Rain Gage Records**

| Date/RG | RG19 | RG20 | RG21 | RG22 | RG23 | RG24 | RG25 | RG26 | RG27 | RG28 | RG29 | RG30 | RG31 | RG32 | RG33 | RG34 | RG35 | RG36 | RG37 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **6/1/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/2/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/3/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/4/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/5/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/6/2025** | 0.04 | 0 | 0.34 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0.27 | 0.01 | 0 | 0 | 0.16 | 0.152 | 0.4 | 0.05 | 0 |
| **6/7/2025** | 0.06 | 0.04 | 0.31 | 0.03 | 0.02 | 0.02 | 0.01 | 0.18 | 0.03 | 0.05 | 0.15 | 0.05 | 0.03 | 0 | 0.04 | 0.091 | 0.18 | 0.4 | 0.03 |
| **6/8/2025** | 0.03 | 0.01 | 0.02 | 0.02 | 0.01 | 0.04 | 0.01 | 0.02 | 0.03 | 0.04 | 0.03 | 0.016 | 0.02 | 0 | 0.04 | 0.027 | 0.03 | 0.02 | 0.02 |
| **6/9/2025** | 0.04 | 0.05 | 0.03 | 0.04 | 0.03 | 0.04 | 0.02 | 0 | 0.05 | 0.07 | 0.07 | 0.023 | 0.05 | 0 | 0.04 | 0.038 | 0.03 | 0.03 | 0.05 |
| **6/10/2025** | 0.41 | 0.15 | 0.39 | 0.62 | 0.19 | 0.41 | 0.31 | 0.1 | 0.13 | 0.22 | 0.25 | 0.166 | 0.52 | 0.342 | 0.58 | 0.547 | 0.52 | 0.52 | 0.14 |
| **6/11/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/12/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/13/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/14/2025** | 0.25 | 0.28 | 0.15 | 0.03 | 0.02 | 0.35 | 0.05 | 0.08 | 0.28 | 0.34 | 0.45 | 0.248 | 0.38 | 0.338 | 0.01 | 0.063 | 0.14 | 0.11 | 0.02 |
| **6/15/2025** | 0.61 | 0.49 | 0.69 | 0.52 | 0.5 | 0.86 | 0.61 | 0.64 | 0.58 | 0.9 | 0.67 | 0.661 | 0.65 | 0.782 | 0.5 | 0.606 | 1.07 | 0.9 | 0.56 |
| **6/16/2025** | 0.02 | 0.01 | 0.03 | 0 | 0.01 | 0 | 0 | 0.01 | 0.01 | 0.01 | 0.02 | 0.013 | 0 | 0.005 | 0.01 | 0.008 | 0.03 | 0.02 | 0.02 |
| **6/17/2025** | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/18/2025** | 0.16 | 0.19 | 0.19 | 0.17 | 0.08 | 0.17 | 0.14 | 0.13 | 0.23 | 0.16 | 0.18 | 0.222 | 0.13 | 0.169 | 0.15 | 0.166 | 0.19 | 0.15 | 0.08 |
| **6/19/2025** | 0.56 | 0.18 | 0.52 | 0.44 | 0.55 | 0.63 | 0.37 | 0.22 | 0.21 | 0.55 | 0.05 | 0.405 | 0.77 | 0.566 | 0.39 | 0.444 | 0.65 | 0.45 | 0.61 |
| **6/20/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/21/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/22/2025** | 0.04 | 0.02 | 0.04 | 0.01 | 0 | 0.01 | 0 | 0.01 | 0.01 | 0.03 | 0 | 0.023 | 0.01 | 0.014 | 0.01 | 0.014 | 0.03 | 0.03 | 0 |
| **6/23/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/24/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/25/2025** | 0 | 0 | 0 | 0.19 | 0.2 | 0 | 0.25 | 0 | 0 | 0 | 0 | 0.012 | 0 | 0.008 | 0.93 | 0.295 | 0 | 0 | 0.45 |
| **6/26/2025** | 0.06 | 0.06 | 0.06 | 0.09 | 0.12 | 0.06 | 0.12 | 0.08 | 0.08 | 0.09 | 0.066 | 0.081 | 0.04 | 0.069 | 0.13 | 0.099 | 0.08 | 0.08 | 0.13 |
| **6/27/2025** | 0.02 | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.009 | 0.02 | 0.002 | 0 | 0.011 | 0.05 | 0.05 | 0 |
| **6/28/2025** | 0.13 | 0.09 | 0.06 | 0.08 | 0.03 | 0 | 0.05 | 0.04 | 0.04 | 0.11 | 0 | 0.081 | 0.05 | 0.04 | 0.03 | 0.06 | 0.08 | 0.08 | 0.02 |
| **6/29/2025** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.004 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **6/30/2025** | 0.86 | 1.05 | 0.72 | 0.35 | 0.7 | 0.691 | 0.38 | 0.49 | 0.728 | 0.88 | 0.786 | 0.895 | 0.4 | 0.709 | 0.61 | 0.588 | 0.99 | 1.07 | 0.357 |

**Table 28 - Rain Gage records by year and month for FY25**

| Date/ RG | RG1 | RG2 | RG3 | RG4 | RG5 | RG6 | RG7 | RG8 | RG9 | RG10 | RG11 | RG12 | RG13 | RG14 | RG15 | RG16 | RG17 | RG18 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Jul24** | 2.183 | 2.64 | 3.32 | 4.13 | 1.59 | 2.35 | 2.47 | 3.2 | 2.056 | 3.14 | 2.98 | 1.83 | 3.62 | 1.727 | 1.61 | 2.348 | 3.52 | 2.66 | |
| **Aug24** | 5.402 | 5.42 | 6.95 | 6.93 | 5.28 | 4.53 | 5.73 | 6.91 | 4.919 | 8 | 7.13 | 4.55 | 7.32 | 5.263 | 2.91 | 5.52 | 6.13 | 4.628 | |
| **Sep24** | 0.705 | 0.44 | 0.59 | 0.67 | 0.73 | 0.3 | 0.47 | 0.42 | 0.21 | 0.6 | 0.4 | 0.64 | 0.54 | 0.405 | 0.32 | 0.48 | 0.56 | 0.278 | |
| **Oct24** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| **Nov24** | 2.694 | 2.9 | 2.75 | 2.61 | 2.65 | 2.48 | 2.43 | 2.58 | 2.69 | 3.09 | 2.84 | 2.41 | 2.74 | 1.928 | 1.61 | 2.92 | 2.37 | 2.19 | |
| **Dec24** | 3.356 | 3.65 | 3.832 | 3.68 | 3.29 | 3.54 | 3.556 | 3.65 | 3.8 | 3.92 | 3.72 | 3.06 | 3.91 | 3.109 | 2.03 | 3.84 | 3.32 | 3.42 | |
| **Jan25** | 0.562 | 0.58 | 0.45 | 0.44 | 0.52 | 0.5 | 0.467 | 0.52 | 0.574 | 0.47 | 0.91 | 0.56 | 0.28 | 0.511 | 0.33 | 0.6 | 0.44 | 0.43 | |
| **Feb25** | 0.973 | 1.07 | 1.04 | 1.08 | 0.99 | 1.06 | 0.992 | 0.99 | 1.08 | 1.17 | 0.97 | 0.89 | 1.03 | 0.902 | 1.044 | 1.1 | 0.92 | 0.92 | |
| **Mar25** | 5.257 | 5.33 | 5.51 | 5.8 | 5.33 | 6.13 | 4.898 | 4.98 | 5.43 | 5.39 | 4.83 | 5.71 | 5.51 | 3.92 | 2.94 | 5.32 | 5.23 | 3.47 | |
| **Apr25** | 3.117 | 3.59 | 3.04 | 3.45 | 3.73 | 2.57 | 2.572 | 2.86 | 2.77 | 2.58 | 2.92 | 2.66 | 3.33 | 2.434 | 2.84 | 3.44 | 2.65 | 2.17 | |
| **May25** | 6.267 | 7.4 | 6.883 | 7.17 | 6.79 | 8.59 | 5.5 | 6.04 | 8.12 | 7.05 | 5.826 | 6.12 | 6.57 | 4.79 | 5.042 | 6.73 | 5.55 | 5.9 | |
| **Jun25** | 2.556 | 3.05 | 2.59 | 2.37 | 2.28 | 3.22 | 2.56 | 3.33 | 2.85 | 2.84 | 2.768 | 2.52 | 2.79 | 2.376 | 2.123 | 2.2 | 2.373 | 3.01 | |
| **Total** | 33.072 | 36.07 | 36.96 | 38.33 | 33.18 | 35.27 | 31.64 | 35.48 | 34.5 | 38.25 | 35.29 | 30.95 | 37.64 | 27.36 | 22.8 | 34.5 | 33.06 | 29.08 | |

| Date/ RG | RG19 | RG20 | RG21 | RG22 | RG23 | RG24 | RG25 | RG26 | RG27 | RG28 | RG29 | RG30 | RG31 | RG32 | RG33 | RG34 | RG35 | RG36 | RG37 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Jul24** | 2.93 | 3.03 | 3.02 | 2.104 | 2.13 | 2.513 | 1.682 | 1.981 | 3.05 | 2.835 | 1.93 | 3.031 | 2.24 | 2.83 | 2.403 | 2.673 | 3.76 | 4.496 | 1.819 |
| **Aug24** | 5.477 | 6.96 | 3.92 | 4.67 | 5.41 | 6.648 | 5.35 | 5.72 | 6.27 | 6.39 | 4.84 | 6.826 | 6.11 | 6.672 | 5.537 | 4.903 | 4.7 | 5.39 | 5.45 |
| **Sep24** | 0.375 | 0.5 | 0.565 | 0.24 | 0.77 | 0.36 | 0.58 | 0.38 | 0.67 | 0.6 | 0.96 | 0.444 | 0.56 | 0.82 | 0.367 | 0.355 | 0.6 | 0.28 | 0.9 |
| **Oct24** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Nov24** | 2.96 | 2.618 | 2.56 | 2.44 | 2.67 | 2.83 | 2.509 | 2.65 | 2.53 | 2.769 | 2.77 | 2.776 | 3.07 | 2.77 | 2.456 | 2.531 | 2.769 | 2.78 | 2.621 |
| **Dec24** | 3.91 | 3.41 | 3.88 | 3.05 | 3.32 | 3.55 | 3.18 | 3.82 | 3.52 | 3.762 | 4.17 | 3.744 | 4.14 | 3.91 | 3.52 | 3.472 | 3.95 | 4.04 | 3.377 |
| **Jan25** | 0.47 | 0.44 | 0.45 | 0.59 | 0.56 | 0.5 | 0.51 | 0.516 | 0.45 | 0.45 | 0.4 | 0.637 | 0.47 | 0.46 | 0.57 | 0.548 | 0.51 | 0.53 | 0.56 |
| **Feb25** | 1.03 | 0.89 | 1.16 | 1.11 | 0.96 | 1.06 | 0.89 | 1.08 | 0.96 | 1.02 | 1.25 | 1.005 | 1.18 | 1.22 | 1.1 | 1.084 | 1.13 | 1.09 | 1.08 |
| **Mar25** | 5.11 | 5.797 | 5.09 | 5.48 | 5.26 | 5.26 | 4.74 | 4.95 | 5.44 | 5.38 | 6.32 | 5.021 | 5.11 | 5.37 | 5.227 | 5.49 | 5.71 | 5.56 | 5.72 |
| **Apr25** | 2.55 | 2.34 | 2.83 | 2.96 | 3 | 2.23 | 3.32 | 2.8 | 2.9 | 2.44 | 2.33 | 2.81 | 2.27 | 2.446 | 3.4 | 2.949 | 2.81 | 2.2 | 3.31 |
| **May25** | 6.68 | 6.42 | 8.01 | 8.3 | 5.97 | 7.66 | 6.74 | 4.52 | 6.53 | 7.78 | 6.97 | 6.172 | 7.06 | 7.258 | 6.32 | 7.638 | 8.46 | 7.83 | 6.97 |
| **Jun25** | 3.29 | 2.62 | 3.65 | 2.65 | 2.46 | 3.281 | 2.32 | 2 | 2.408 | 3.45 | 2.992 | 2.919 | 3.07 | 3.044 | 3.63 | 3.209 | 4.47 | 3.96 | 2.487 |
| **Total** | 34.782 | 35.02 | 35.14 | 33.59 | 32.51 | 35.89 | 31.82 | 30.42 | 34.73 | 36.88 | 34.93 | 35.38 | 35.28 | 36.8 | 34.53 | 34.85 | 38.87 | 38.16 | 34.29 |

**Table 29 - SSO Statistics for Period July 1 2024 – June 30 2025**

| **Main & Shurs** | | | | | |
|---|---|---|---|---|---|
| **Event No.** | **Start of Overflow Date Time** | **End of Overflow Date Time** | **Event Duration (hours:mins)** | **Flow Volume (ft^3)** | **Flow Volume (Millions of gallons)** |
| 0 | | | 0 | 0 | 0 |

| **PC-30** | | | | | |
|---|---|---|---|---|---|
| **Event No.** | **Start of Overflow Date** | **End of Overflow Date** | **Event Duration (hours:mins)** | **Flow Volume (ft^3)** | **Flow Volume (Millions of gallons)** |
| 0 | | | **0** | **0** | **0** |

# Appendix E – PCB PMP 18th Annual Report

PHILADELPHIA WATER DEPARTMENT

*Industrial Waste & Backflow Compliance Unit*
*1101 Market Street, 6th Fl.*
*Philadelphia, Pennsylvania 19107-2994*

*RANDY E. HAYMAN*
*Commissioner*

February 28, 2025

Thomas Amidon
Delaware River Basin Commission
25 State Police Drive
West Trenton, NJ 08628

Re: PWD PCB PMP Annual Report

Dear Mr. Amidon:

Enclosed you will find PWD's Eighteenth Annual PCB Pollutant Minimization Report for calendar year 2024. Due to a delay from the contract lab, the EDD files for the last sample taken at the NEWPCP and SWWPCP in October 2024 has not been received yet. A complete file with all of the EDD files will be submitted separately once received. Please feel free to contact me at 215-685-6085 if there are any questions relating to this report.

Sincerely,

Jennifer L. Moore
Chief Engineer
Industrial Waste & Backflow Compliance
Philadelphia Water Department

cc: Pravin Patel, P.E., Pennsylvania Department of Environmental Protection

PHILADELPHIA WATER DEPARTMENT

# PCB

## Pollutant Minimization Plan

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Eighteenth Annual Report
Calendar Year 2024

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# 1 PMP Achievement Executive Summary

The Philadelphia Water Department (PWD) submitted its PCB Pollutant Minimization Plan (PCB PMP) on September 30, 2005, and was issued a Completeness Determination letter on January 12, 2006. PWD initiated the actions called for in its PCB PMP on March 4, 2006.

PWD's PCB PMP set out the following approaches to achieving PCB minimization:

- Sample three Water Pollution Control Plants' effluent every two years and analyze using Method 1668A.
- Visit and inspect three hundred ninety-nine (399) sites listed by either EPA or other agencies as housing PCB-containing devices and report the number of devices that have been removed from each site, both prior to our inspection and subsequent to it.
- Visit and inspect thirty-one (31) sites listed by the Philadelphia Department of Public Health as having previously undergone some type of PCB remediation activity and report the number of sites removed from the list as posing no threat of PCB discharge to PWD's sewer system.
- Report any reductions in PCB concentrations in the wastestreams from our three Water Treatment Plants by measuring PCBs in the ferric chloride used in the treatment process as well as reductions of PCBs in the source water (Delaware River or Schuylkill River).
- Continue the sewershed PCB trackdown sampling program for each of our three Water Pollution Control Plants.

Revisions to the original PMP have been made over the years. Refer to the First through the Sixteenth Annual Reports for specific information on PMP efforts during Years 1 - 17. No changes to the PMP were made in Year 18 (2024). Year 18 efforts are detailed in the attached report.

During the seventeenth year of PWD's PCB PMP, the following tasks were performed:

- Wet-weather PCB sampling and analysis of the three Water Pollution Control Plants' (WPCPs') effluent was performed as required by PWD's NPDES permits. See Section 7, "Tabular Summary", for data.

- PWD inspected one hundred eighteen (118) of the three hundred thirty-seven (337) sites remaining on the list by EPA or other agencies as housing PCB-containing devices. This exceeds the goal of 70 site inspections per year.

- PWD wet weather and dry weather WPCP effluent data have been entered into the DRBC PCB database.

- Significant reductions in WPCP effluent PCB loadings were seen over the course of the PMP (see "Tabular Summary"). However, there was an unusually high concentrations found at SWWPCP and at NEWPCP in March 2024.

Additionally, the following initiatives were undertaken:

- PWD's PCB database was developed in 2017 and is now being populated. The database was utilized to track and report the 2024 inspections. Currently, the database allows PWD to track "active" sites (where Liquid Cooled Electrical Equipment (LCEE) devices are still located on site) versus "inactive" sites (where LCEE devices were previously located but have been removed). Each location has been given a unique ID and has been geocoded in PWD's GIS database.

- In 2024, PWD continued to monitor outlying township connection points for PCBs using EPA Method 608. Two (2) township connections, one (1) in Bucks County, and one (1) in Lower Southampton Township were sampled and the results were all below the method detection limits.

- In 2024, PWD received sixteen (16) groundwater applications and had forty-one (41) active permits. All permit holders and applicants have reported non-detectable polychlorinated biphenyls (PCBs) results by EPA Method 608.

# 2 *Facility and Contact Information*

| | |
|---|---|
| Facility Name and Address: | Philadelphia Water Department<br>1101 Market Street<br>Philadelphia, PA 19107 |
| Water Pollution Control Plants: | Northeast WPCP<br>3899 Richmond St.<br>Philadelphia, PA 19137<br><br>Southeast WPCP<br>25 Pattison Ave.<br>Philadelphia, PA 19148<br><br>Southwest WPCP<br>8200 Enterprise Ave.<br>Philadelphia, PA 19153 |
| Contact Person: | Jennifer L. Moore<br>Manager<br>Industrial Waste & Backflow Compliance<br>1101 Market St., 6th Floor<br>Philadelphia, PA 19107<br><br>Phone: 215-685-6085<br>Fax: 215-685-6232<br>Email: jennifer.l.moore@phila.gov |
| Date of Submittal of PMP: | September 30, 2005 |
| Date of Completeness Determination: | January 12, 2006 |
| Date of Initiation of PMP: | March 4, 2006 |
| Reporting Period: | Year 18 (Calendar Year 2024) |

# 3 Revisions to PMP

During Year 18, no revisions were made to the PMP.

# 4 Material and Process Modifications

During Year 18 of the PMP, there were no material or process modifications made relevant to PCB minimization.

# 5 Measures to Address Known, Probable and Potential Sources

## 5.1 Known and Probable Sources

Two known sources of PCBs were identified in PWD's PCB PMP. These were the source water for PWD's Water Treatment Plants (Delaware and Schuylkill Rivers), and the ferric chloride supplied to PWD by DuPont and used in the water treatment process. A change of ferric chloride supplier in Year 5 resulted in a 95% reduction in PCB content of the product used by PWD in its water treatment process.

A probable source of PCBs identified in PWD's PCB PMP is sludge stored in lagoons at both NEWPCP and SWWPCP. Trackdown efforts conducted in the sewersheds of both NEWPCP and SWWPCP included sampling of the lagoons. The data are available in Attachment B of the Year 5 report.

## 5.2 Potential Sources

### *5.2.1 Historical Potential Sources:*

Numerous potential sources of PCBs were identified in PWD's PCB PMP. These were identified from databases supplied by EPA, the Philadelphia Fire Department, the Philadelphia Department of Public Health, and others. The thirty-one (31) potential sources supplied by the Philadelphia Department of Public Health were identified as sites at which some form of prior PCB remediation had taken place. All thirty-one (31) of these sites were inspected during Year 1 of the PMP.

The remaining potential sources of PCBs, taken from information supplied by EPA and others, were identified as sites on which PCB devices were believed to be present. These sites were separated into three groups by sewershed (NEWPCP, SEWPCP or SWWPCP). Approximately one hundred sixty-seven (167), seventy-three (73) and one hundred fifty-seven (157) sites were listed for NEWPCP, SEWPCP and SWWPCP, respectively. During 2024 (Year 18 of the PMP), PWD's Industrial Waste group inspected forty-eight (48) of the NEWPCP-related sites, seventeen (17) of the SEWPCP-related sites and fifty-three (53) of the SWWPCP-related sites.

Details of these inspections are summarized in the Tables, "Inspections of Potential Source Sites" in Attachment B of this report.

Inspections confirmed 1 device has been removed from the inspected sites during 2024. Historical information for these sites will be retained, but the sites will be removed from the schedule for future inspections.

*5.2.2 New Construction and Groundwater Remediation Sites:*

In an effort to minimize the volume of PCBs entering the City's sewer system, PWD requires PCB monitoring in all Groundwater Discharge Permits. These permits are used to regulate specific pollutants of concern from groundwater discharges to the City's sewer system. Generally, these permits are for remediation sites with groundwater contaminated with petroleum products, such as former gasoline stations. However, all temporary discharges from construction activities are permitted under the Groundwater Discharge Permit Program. The Groundwater Discharge Permits require all contractors and/or subcontractors to monitor their discharges monthly for PCBs via sampling and to report their activities and results. All Groundwater Discharge Permits include PWD's regulatory PCB limit of "non-detectable by EPA Method 608" limitation. All PCB detections require additional monitoring by the contractor or subcontractor to show compliance with the permit limitation.

- In 2024, the PWD received a total of sixteen (16) groundwater applications and had forty-one (41) active permits stands for the year. All permit holders and applicants have reported non-detectable polychlorinated biphenyls (PCBs) results by EPA Method 608.

*5.2.3 Township Connections*

PWD has agreements with the surrounding townships to convey and treat township wastewater, which is ultimately discharged at NEWPCP, SEWPCP and SWWPCP. Part of the agreement includes sampling the respective township's wastewater at the connection to the City's sewer system (i.e., near Philadelphia border).

In 2024, PWD sampled two (2) township connections, one (1) in Bucks County, and one (1) in Lower Southampton Township. The township samples were analyzed using EPA Method 680 to determine if there are PCB loadings entering the City through the surrounding township connections. Results of these sampling events, presented in Attachment C, were all below the detection limits. PWD is preparing to monitor additional township connections in 2025.

### *5.2.4 Manholes*

Utilities may obtain a manhole pumpout permit for permission to discharge wastewater from the underground infrastructure to the City's sanitary and combined sewers. The Manhole Permits require all utilities or subcontractors to monitor their discharges monthly for PCBs via sampling and to report their activities and results. All Manhole Permits include PWD's regulatory PCB limit of "non-detectable by EPA Method 608" limitation. All PCB detections require additional monitoring by the contractor or subcontractor to show compliance with the permit limitation.

- In 2024, eight (8) manhole pumpout permits were active. All discharging permittees reported non-detectable PCBs results.

# 6 Incremental and Cumulative Changes from the Baseline Loading

## 6.1 Loading Baseline

PWD's PCB PMP provides the following baseline loadings (see Section 7, "Tabular Summary):

| WPCP | Baseline Loading (mg/day) |
|---|---|
| NEWPCP | 11,510 |
| SEWPCP | 7,559 |
| SWWPCP | 10,970 |

These loadings differ from those found in the TMDL. This is because the data are from different sampling events, the PMP baseline loadings are weighted by wet versus dry weather results, the analyses are for different numbers of congeners and there is a difference in analytical methods.

## 6.2 Baseline Loading Reduction – Direct Measurement

During Year 18, wet-weather effluent sampling for PCBs was performed at each of PWD's three Water Pollution Control Plants (WPCPs), as required by PWD's NPDES permits. See Section 7 ("Tabular Summary") for data. The numerical data sets are presented in Section 7, Tables 7.1 through 7.4. This data is presented in graphical form in Appendix A, Figures A1 through A3.

Loadings for the NEWPCP for the first half of 2024 were generally comparable to those calculated in the first half of Year 15 (2021). Loadings from the second half of 2024 were generally comparable to the second half of the year results consistently seen in Year 8 (2014) – Year 11 (2017) and Year 16 (2022). While the calculated loading for NEWPCP from March 2024 sampling show a reduction of 13% from the baseline PCB loading levels, the calculated loading from the August 2024 sampling shows substantial reduction of 86% from the baseline PCB loading levels.

Loadings for the SEWPCP for 2024 sampling results were generally comparable to at least one calculated loading in Year 4 (2010), Year 7 (2013), Year 11 (2017), Year 16 (2022), and Year 17 (2023). Results of the 2024 sampling for SEWPCP show substantial reductions of 67.4-84.2% from the baseline PCB loadings.

The loadings for the SWWPCP for March 2024 sampling were higher than those calculated in previous years and comparable to at least one calculated loading from Year 13 (2019) and Year 17 (2023). However, these results were significantly lower than the unusually high sample results recorded in September 2022 and December 2022, which were reported in the Year 16 (2022) report. The loadings from August 2024 decreased and are comparable to previous years' reduction percentages for PCB results. They are the second lowest reported results since the PMP was implemented in 2005. PWD continues to investigate the correlation between elevated total PCB concentration, errors in calculations, laboratory errors, and solids interference in the WPCP discharges, as well as other potential sources that may have contributed to the high results.

PWD explored the PCB homolog contribution for wet and dry weather samples, and the wet weather homolog contributions from 2020-2024 for all three plants are presented in Figures A4 through A6. The average percent contribution by homolog for both dry and wet weather samples collected between 2013 and 2024 was compared to that in 2024 for each plant. These homolog percentages are presented in Attachment A, Figures A7 through A9. For March 2024, Northeast and Southwest have high contributions from di-, tri-, tetra-, penta-hexa-, and hepta-, homologs. Northeast continues to show decreased contributions from deca- homologs. PWD plans to continue exploring these patterns in the 2025 data to see if the trends continue or if others emerge.

## *6.3 Baseline Loading Reduction – Other Measures of Progress*

See Attachment B ("Potential Sources and Inspection Findings"). A report with results from 2023 inspections is shown in this section. This report was developed from the PCB database. PWD will continue to update and refine this report with the annual drainage maps associated with the inspections conducted in future reports.

Two (2) township connections, one (1) in Bucks County, and one (1) in Lower Southampton Township were sampled in 2024 using EPA Method 608 and the results were all below the method detection limits. Bucks County drains to the NEWPCP and Lower Southampton Township drains to the NEWPCP. The results have been provided in Table C1. In 2025, additional outlying township connections sampling is planned.

# *7 Tabular Summary*

The subsequent pages provide a summary of the PCB loading calculations for NEWPCP, SEWPCP and SWWPCP, along with the total and penta-PCB concentration results for each of the treatment plant effluents in 2024. Also, included are the annual range and median concentrations for dry weather monitoring at the respective plants.

# Table 7.1
# Summary of PCB Loadings
# Northeast Water Pollution Control Plant
# NPDES # PA0026689

**Year 2005 Baseline Loading (mg/day): 11,510**

| Date | Calculated Loading (mg/day) | Estimated Reduction From Baseline (mg/day) | Cumulative Reduction From Baseline (%) |
|---|---|---|---|
| 12/3/07 | 8,594 | 2,916 | 25.3 |
| 3/27/09 | 5,846 | 5,664 | 49.2 |
| 10/16/09 | 6,571 | 4,939 | 42.9 |
| 4/21/10 | 5,490 | 6,020 | 52.3 |
| 12/13/10 | 4,615 | 6,895 | 59.9 |
| 9/6/11 | 6,224 | 5,286 | 45.9 |
| 11/17/11 | 3,745 | 7,765 | 67.5 |
| 6/13/12 | 11,189 | 321 | 2.8 |
| 10/16/12 | 2,542 | 8,968 | 77.9 |
| 4/20/13 | 2,849 | 8,661 | 75.2 |
| 10/8/13 | 2,349 | 9,161 | 79.6 |
| 4/16/14 | 2,315 | 9,195 | 79.9 |
| 9/25/14 | 1,552 | 9,958 | 86.5 |
| 5/28/15 | 3,157 | 8,353 | 72.6 |
| 10/10/15 | 2,291 | 9,219 | 80.1 |
| 5/14/16 | 1,755 | 9,755 | 84.8 |
| 10/23/16 | 1,479 | 10,031 | 87.1 |
| 5/6/17 | 1,749 | 9,761 | 84.8 |
| 10/9/17 | 972 | 10,538 | 91.6 |
| 3/2/18 | 17,293 | -5,783 | -50.2 |
| 10/12/18 | 4,219 | 7,291 | 63.3 |
| 5/6/19 | 2,856 | 8,654 | 75.2 |
| 10/17/19 | 3,067 | 8,443 | 73.4 |
| 4/13/2020 | 3,114 | 8,396 | 72.9 |
| 10/30/2020 | 5,570 | 5,940 | 51.6 |
| 3/19/2021 | 9,636 | 1,874 | 16.3 |
| 10/26/2021 | 52,351 | -40,841 | -354.8 |
| 9/6/2022 | 1,574 | 9,936 | 86.3 |
| 10/14/2022 | 2,223 | 9,287 | 80.7 |
| 2/28/2023 | 2,583 | 8,927 | 77.6 |
| 9/29/2023 | 2,579 | 8,931 | 77.6 |
| 3/24/2024 | 10,013 | 1,497 | 13.0 |
| 8/3/2024 | 1,612 | 9,898 | 86.0 |

| Measure | Date Initiated | Date Completed |
|---|---|---|
| NEWPCP Phase 1 Trackdown | November 3, 2010 | November 4, 2010 |
| NEWPCP Phase 2 Trackdown | January 26, 2012 | January 27, 2012 |

# Table 7.2
# Summary of PCB Loadings
# Southeast Water Pollution Control Plant
# NPDES # PA0026662

**Year 2005 Baseline Loading (mg/day): 7,559**

| Date | Calculated Loading (mg/day) | Estimated Reduction From Baseline (mg/day) | Cumulative Reduction From Baseline (%) |
|---|---|---|---|
| 12/3/07 | 4,595 | 2,964 | 39.2 |
| 3/27/09 | 3,435 | 4,124 | 54.6 |
| 10/16/09 | 4,287 | 3,272 | 43.3 |
| 4/21/10 | 2,155 | 5,404 | 71.5 |
| 12/2/10 | 2,736 | 4,823 | 63.8 |
| 9/6/11 | 4,135 | 3,424 | 45.3 |
| 11/17/11 | 1,368 | 6,191 | 81.9 |
| 6/13/12 | 5,659 | 1,900 | 25.1 |
| 10/16/12 | 1,296 | 6,263 | 82.9 |
| 4/20/13 | 2,803 | 4,756 | 62.9 |
| 11/27/13 | 2,599 | 4,960 | 65.6 |
| 4/16/14 | 6,370 | 1,189 | 15.7 |
| 9/25/14 | 1,827 | 5,732 | 75.8 |
| 5/28/15 | 2,744 | 4,815 | 63.7 |
| 10/10/15 | 2,795 | 4,764 | 63.0 |
| 5/14/16 | 1,525 | 6,034 | 79.8 |
| 10/28/16 | 1,058 | 6,501 | 86.0 |
| 5/6/17 | 2,762 | 4,797 | 63.5 |
| 10/9/17 | 1,212 | 6,347 | 84.0 |
| 4/16/18 | 21,681 | -14,122 | -186.8 |
| 10/12/18 | 9,543 | -1,984 | -26.2 |
| 4/6/19 | 828 | 6,731 | 89.0 |
| 10/28/19 | 2,386 | 5,173 | 68.4 |
| 5/1/2020 | 2,728 | 4,831 | 63.9 |
| 11/12/2020 | 6,059 | 1,500 | 19.8 |
| 3/19/2021* | 7,219 | 340 | 4.5 |
| 7/2/2021 | 3,611 | 3,948 | 52.2 |
| 10/26/2021 | 1,811 | 5,748 | 76.0 |
| 9/6/2022 | 2,111 | 5,448 | 72.1 |
| 10/14/2022 | 1,481 | 6,078 | 80.4 |
| 2/28/2023 | 1,826 | 5,733 | 75.8 |
| 9/29/2023 | 2,455 | 5,104 | 67.5 |
| 3/24/2024 | 2,463 | 5,096 | 67.4 |
| 8/3/2024 | 1,195 | 6,364 | 84.2 |

| Measure | Date Initiated | Date Completed |
|---|---|---|
| SEWPCP Phase 2 Trackdown | October 17, 2006 | October 20, 2006 |

# Table 7.3
# Summary of PCB Loadings
# Southwest Water Pollution Control Plant
# NPDES # PA0026671

**Year 2005 Baseline Loading (mg/day): 10,970**

| Date | Calculated Loading (mg/day) | Estimated Reduction From Baseline (mg/day) | Cumulative Reduction From Baseline (%) |
|---|---|---|---|
| 12/3/07 | 6,369 | 4,601 | 41.9 |
| 3/27/09 | 7,334 | 3,636 | 33.1 |
| 10/16/09 | 5,690 | 5,280 | 48.1 |
| 4/21/10 | 2,948 | 8,022 | 73.1 |
| 12/2/10 | 5,027 | 5,943 | 54.2 |
| 9/6/11 | 10,270 | 700 | 6.4 |
| 11/17/11 | 4,280 | 6,690 | 61.0 |
| 6/13/12 | 5,766 | 5,204 | 47.4 |
| 10/16/12 | 2,663 | 8,307 | 75.7 |
| 4/20/13 | 3,673 | 7,297 | 66.5 |
| 10/8/13 | 3,040 | 7,930 | 72.3 |
| 4/16/14 | 2,939 | 8,031 | 73.2 |
| 9/25/14 | 2,882 | 8,088 | 73.7 |
| 8/12/15 | 4,265 | 6,705 | 61.1 |
| 10/10/15 | 3,610 | 7,360 | 67.1 |
| 5/14/16 | 3,662 | 7,308 | 66.6 |
| 10/23/16 | 1,416 | 9,554 | 87.1 |
| 5/6/17 | 3,273 | 7,697 | 70.2 |
| 10/9/17 | 3,294 | 7,676 | 70.0 |
| 3/2/18 | 6,015 | 4,955 | 45.2 |
| 4/16/18 | 7,183 | 3,787 | 34.5 |
| 10/12/18 | 4,870 | 6,100 | 55.6 |
| 4/6/19 | 2,596 | 8,374 | 76.3 |
| 10/17/19 | 26,869 | -15,899 | -144.9 |
| 5/1/2020 | 2,975 | 7,995 | 72.9 |
| 10/30/2020 | 3,474 | 7,496 | 68.3 |
| 3/19/2021 | 4,950 | 6,020 | 54.9 |
| 10/26/2021 | 3,674 | 7,296 | 66.5 |
| 9/6/2022 | 80,678 | -69,708 | -635.4 |
| 11/12/2022 | 5,769 | 5,201 | 47.4 |
| 12/7/2022 | 636,593 | -625,623 | -5703.0 |
| 2/28/2023 | 3,691 | 7,279 | 66.4 |
| 4/23/2023 | 27,679 | -16,709 | -152.3 |
| 9/29/2023 | 8,721 | 2,249 | 20.5 |
| 3/24/2024 | 22,886 | -11,916 | -108.6 |
| 8/3/2024 | 2,347 | 8,623 | 78.6 |

| Measure | Date Initiated | Date Completed |
|---|---|---|
| SWWPCP Phase 1 Trackdown | October 12, 2011 | October 13, 2011 |
| SWWPCP Phase 2 Trackdown | February 23, 2012 | February 24, 2012 |

## Table 7.4
## Summary of Water Pollution Control Plant Effluent PCB Concentration (pg/L)

| NEWPCP | | | SEWPCP | | | SWWPCP | | |
|---|---|---|---|---|---|---|---|---|
| Date | Total PCBs (pg/L) | Penta-PCBs (pg/L) | Date | Total PCBs (pg/L) | Penta-PCBs (pg/L) | Date | Total PCBs (pg/L) | Penta-PCBs (pg/L) |
| 12/3/07 | 13,709 | 2340 | 12/3/07 | 13,580 | 2233 | 12/3/07 | 7,362 | 1,314 |
| 3/27/09 | 4,047 | 850 | 3/27/09 | 1,593 | 373 | 3/27/09 | 8,866 | 1,474 |
| 10/16/09 | 5,924 | 1,238 | 10/16/09 | 3,797 | 711 | 10/16/09 | 4,612 | 886 |
| 4/21/10 | 6,746 | 1,629 | 4/21/10 | 5,322 | 1,114 | 4/21/10 | 3,623 | 729 |
| 12/13/10 | 5,671 | 1,379 | 12/2/10 | 6,755 | 1,348 | 12/2/10 | 6,177 | 1,110 |
| 9/6/11 | 7,646 | 1,624 | 9/6/11 | 10,206 | 1,723 | 9/6/11 | 12,385 | 1,911 |
| 11/17/11 | 4,600 | 1,159 | 11/17/11 | 3,376 | 635 | 11/17/11 | 5,162 | 997 |
| 6/13/12 | 13,745 | 2,057 | 6/13/12 | 13,988 | 2,954 | 6/13/12 | 6,954 | 1,331 |
| 10/16/12 | 3,123 | 791 | 10/16/12 | 3,198 | 595 | 10/16/12 | 3,211 | 558 |
| 4/20/13 | 3,500 | 806 | 4/20/13 | 6,918 | 1,566 | 4/20/13 | 4,429 | 932 |
| 10/8/13 | 2,886 | 669 | 11/27/13 | 6,414 | 1,204 | 10/8/13 | 3,666 | 757 |
| 4/16/14 | 2,844 | 622 | 4/16/14 | 15,722 | 3,182 | 4/26/14 | 3,544 | 737 |
| 9/26/14 | 1,907 | 458 | 9/25/14 | 4,510 | 912 | 9/25/14 | 3,476 | 745 |
| 8/12/15 | 3,878 | 963 | 8/12/15 | 6,774 | 1,411 | 5/28/15 | 5,143 | 1,338 |
| 10/10/15 | 2,814 | 584 | 10/10/15 | 6,898 | 1,516 | 10/10/15 | 4,354 | 790 |
| 5/14/16 | 2,156 | 488 | 5/14/16 | 3,765 | 847 | 5/14/16 | 4,416 | 979 |
| 10/23/16 | 1,817 | 377 | 10/28/16 | 2,612 | 452 | 10/23/16 | 1,708 | 307 |
| 5/6/17 | 2,149 | 455 | 5/6/17 | 6,817 | 1,044 | 5/6/17 | 3,948 | 634 |
| 10/9/17 | 1,194 | 263 | 10/9/17 | 2,993 | 257 | 10/9/17 | 3,972 | 681 |
| 3/2/18 | 21,243 | 4,786 | -- | -- | -- | 3/2/18 | 5,873 | 1,044 |
| -- | -- | -- | 4/16/18 | 53,514 | 10,678 | 4/16/18 | 8,662 | 1,810 |
| 10/12/18 | 5,183 | 1,059 | 10/12/18 | 23,555 | 3,176 | 10/12/18 | 7,254 | 1,155 |
| -- | -- | -- | 4/6/19 | 2,044 | 283 | 4/6/19 | 3,131 | 603 |
| 5/6/19 | 3508 | 857 | -- | -- | -- | -- | -- | -- |
| 10/17/19 | 3768 | 1113 | -- | -- | -- | 10/17/19 | 32,404 | 7,997 |
| -- | -- | -- | 10/28/19 | 5,889 | 1,146 | -- | -- | -- |
| 4/13/20 | 3826 | 909 | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | 5/1/20 | 6,733 | 1,216 | 5/1/20 | 3,587 | 653 |
| 10/30/20 | 6,843 | 1,911 | -- | -- | -- | 10/30/20 | 4189 | 714 |
| -- | -- | -- | 11/12/20 | 14955 | 2927 | -- | -- | -- |
| 3/19/21 | 11,837 | 2,936 | 3/19/2021* | 17,818 | 3,842 | 3/19/21 | 5,970 | 1,134 |
| -- | -- | -- | 7/2/21 | 8,913 | 1,586 | -- | -- | -- |
| 10/26/21 | 64,308 | 6,048 | 10/26/21 | 4,470 | 816 | 10/26/21 | 4,431 | 664 |
| 9/6/22 | 1,934 | 481 | 9/6/22 | 5,211 | 1,045 | 9/6/22 | 97,294 | 24,869 |
| 10/14/22 | 2,731 | 537 | 10/14/22 | 3,656 | 1,131 | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | 11/12/22 | 6,958 | 1,363 |
| -- | -- | -- | -- | -- | -- | 12/7/22 | 767,708 | 148,867 |
| 2/28/23 | 3,173 | 710 | 2/28/23 | 4,507 | 739 | 2/28/23 | 4,451 | 750 |
| -- | -- | -- | -- | -- | -- | 4/23/23 | 33,380 | 8,047 |
| 9/29/23 | 3,168 | 483 | 9/29/23 | 6,059 | 2,199 | 9/29/23 | 10,517 | 2,796 |
| 3/24/24 | 12,300 | 2,510 | 3/24/24 | 6,080 | 1,450 | 3/24/24 | 27,600 | 5,730 |
| 8/3/24 | 1,980 | 524 | 8/3/24 | 2,950 | 778 | 8/3/24 | 2,830 | 680 |

## Table 7.5
## Range and Median PCB Concentration (pg/L)

| Year | NE WPCP | SE WPCP | SW WPCP |
|---|---|---|---|
| 2009 | 2,994-7,280 (4561) | 1,364-9,375 (3667) | 2,994-10,696 (7587) |
| 2010 | 1,769-109,201 (6528) | 1,399-6,755 (3474) | 1,399-6,177 (4197) |
| 2011 | 1,790-7,646 (3319) | 1,493-10,206 (2672) | 3,363-12,385 (4621) |
| 2012 | 1,708-13,745 (2479) | 1,493-13,988 (3369) | 2,850-6,954 (3801) |
| 2013 | 1,440-3,500 (2165) | 2,229-6,918 (4741) | 3,582-4,429 (3674) |
| 2014 | 1,387-15,722 (1657) | 1,392-4,510 (1752) | 2,801-3,544 (3223) |
| 2015 | 2,814-3,878 (2968) | 2,103-6,898 (4472) | 3,328-5,143 (4080) |
| 2016 | 1,108-2,498 (1817) | 1,390-3,765 (2103) | 1,708-4,422 (3538) |
| 2017 | 1,173-2,149 (1421) | 1,065-6,817 (2414) | 2,784-3,972 (3854) |
| 2018 | 1,073-21,243 (5268) | 3,836-53,514 (12934) | 4,943-8,662 (5705) |
| 2019 | 1,460-3,768 (2667) | 2,044-6429 (4341) | 3,131-32,404 (3191) |
| 2020 | 1,469-3,760 (2615) | 1,825-2,320 (2073) | 2,100-2,438 (2269) |
| 2021 | 807-48,630 (24718) | 2,607-1,612 (2110) | 2,992-5,727 (4359) |
| 2022 | 1579-2078 (1828) | 1719-6379 (4049) | 3429-3837 (3633) |
| 2023 | 2961-3318 (3140) | 1571-4198 (2885) | 2567-3275 (2921) |
| 2024 | 1980-12300 (4226) | 1020-6080 (2950) | 1721-27600 (2750) |

Note: Annual median is presented in parentheses.

# Attachment A

# Data Graphs

**Figure A1**
**NEWPCP Total PCB Homolog Concentration (ng/L)**
**Dry Weather and Wet Weather Samples, 2013-2024**

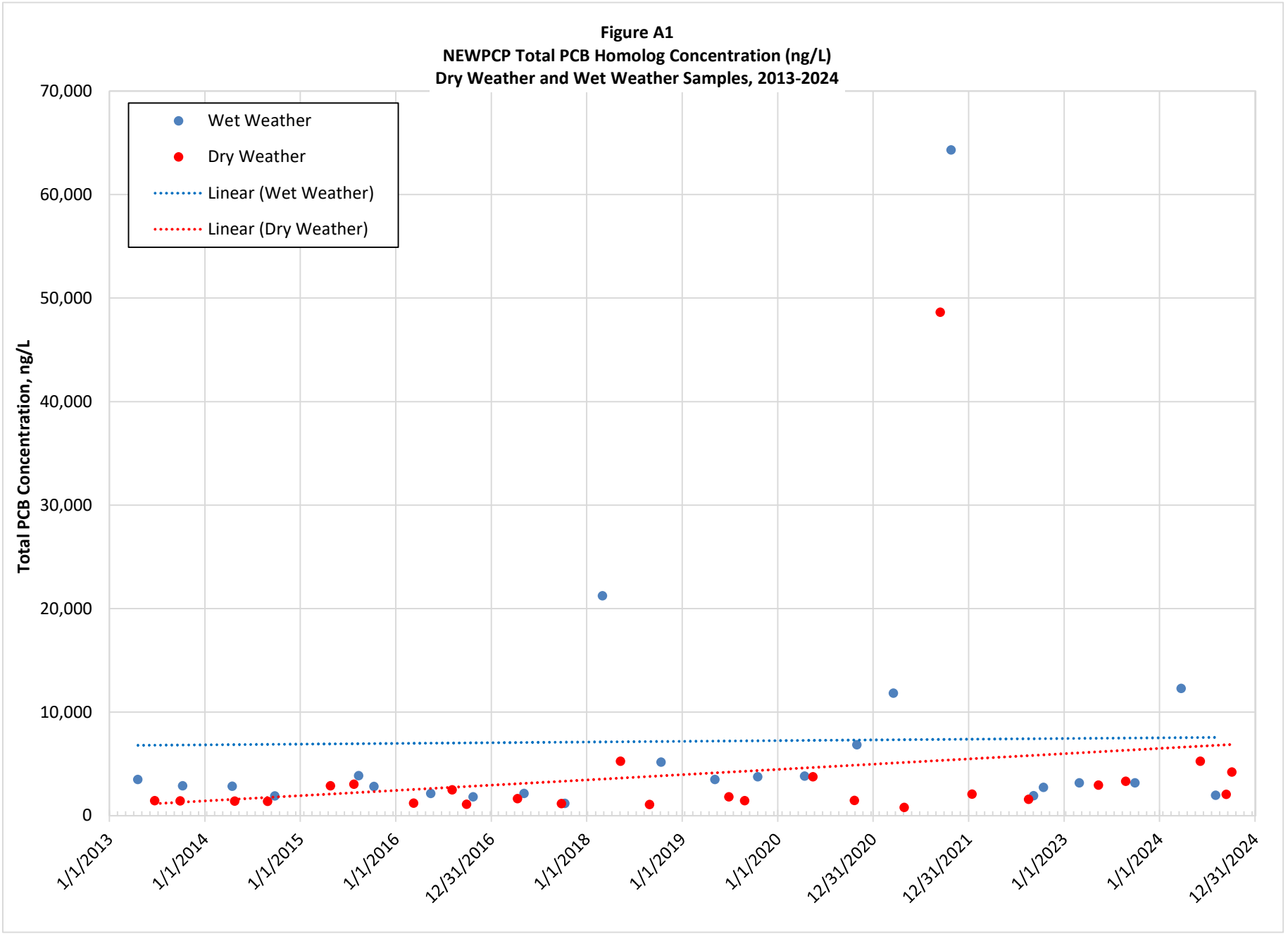


**Figure A2**
**SEWPCP Total PCB Homolog Concentration (pg/L)**
**Dry Weather and Wet Weather Samples, 2013-2024**

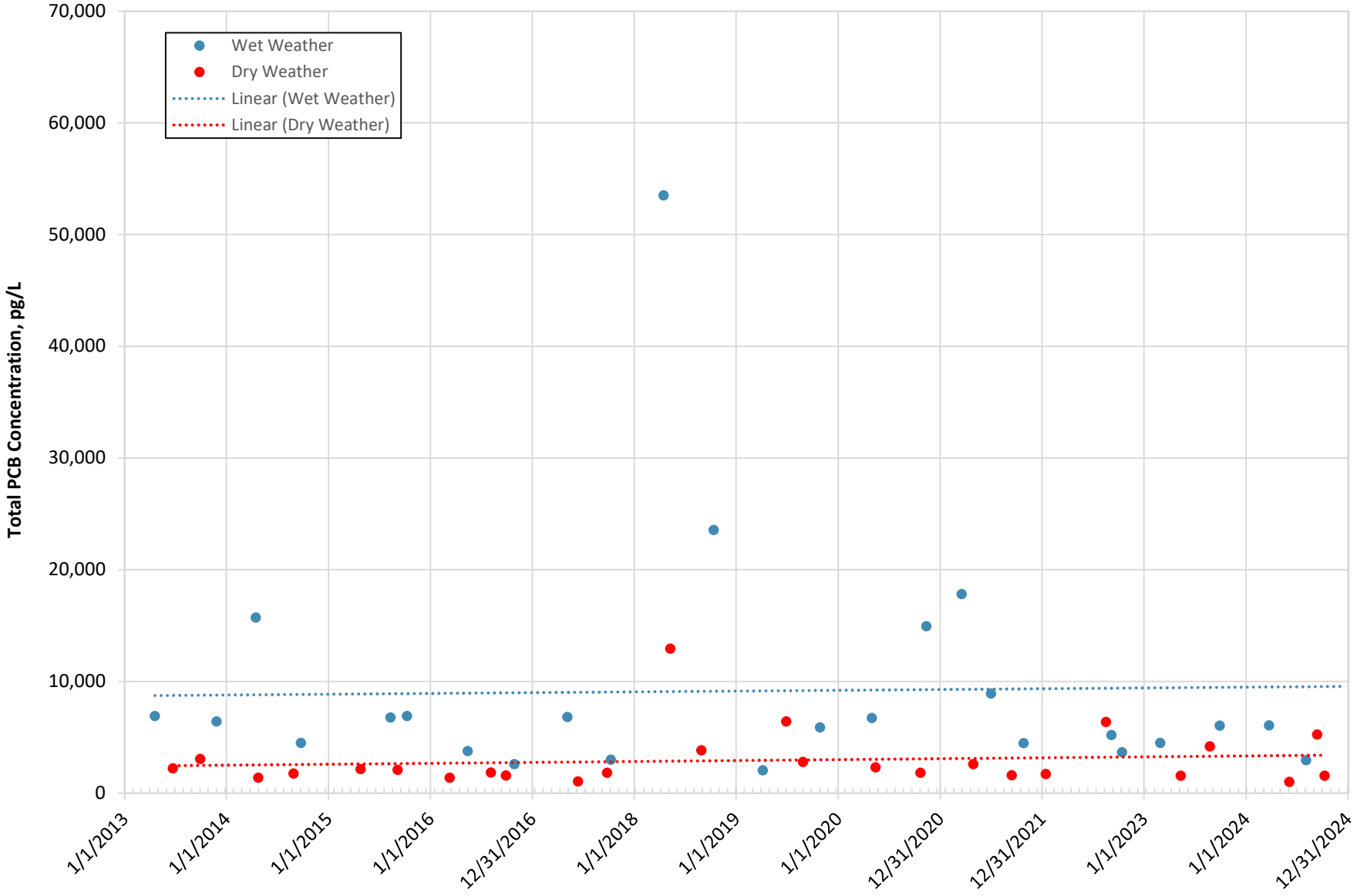


**Figure A3**
**SWWPCP Total PCB Homolog Concentration (pg/L)**
**Dry Weather and Wet Weather Samples, 2013-2024**

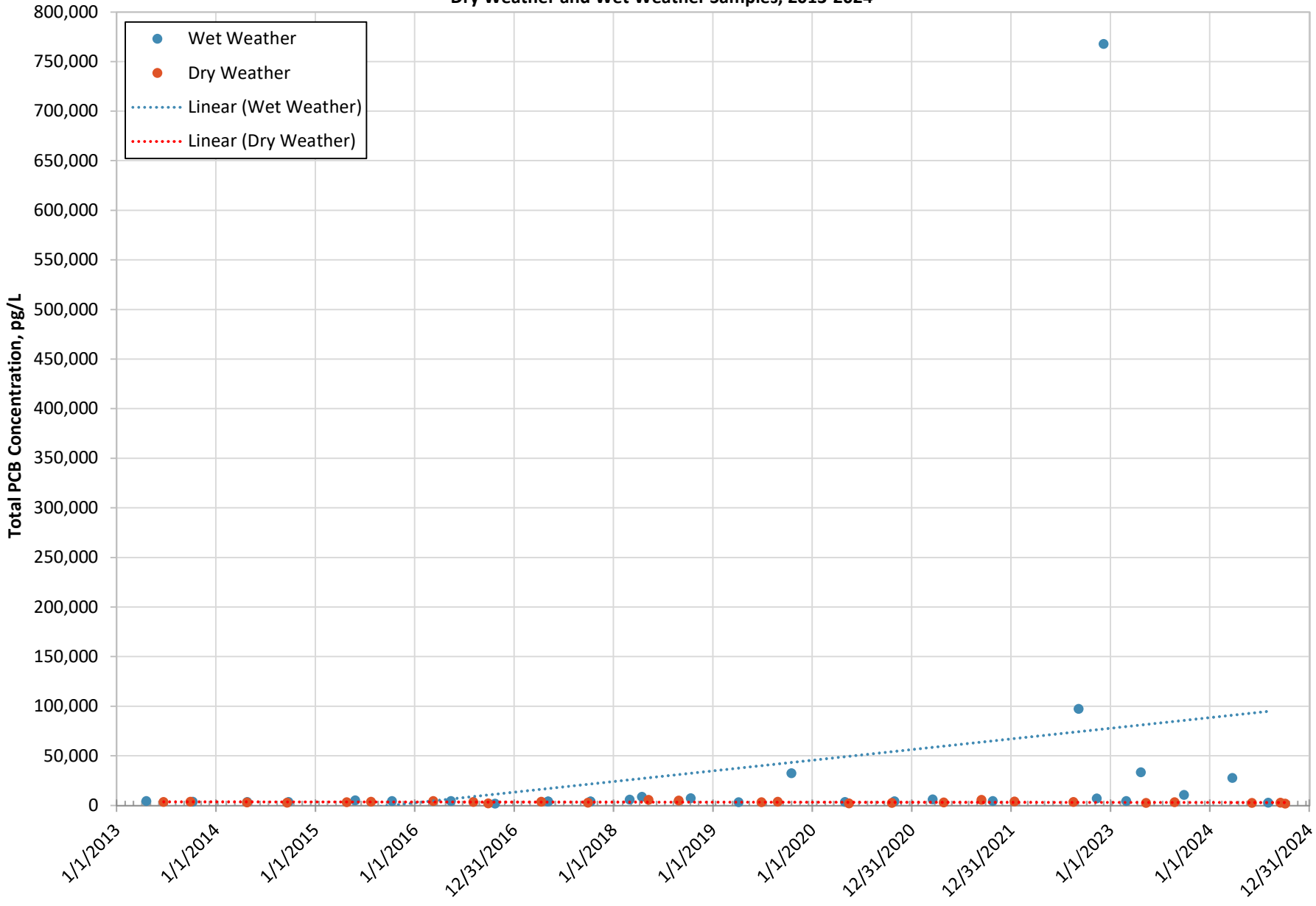


**Figure A4**
**NEWPCP Total Wet Weather % Homolog Contribution, 2020-2024**

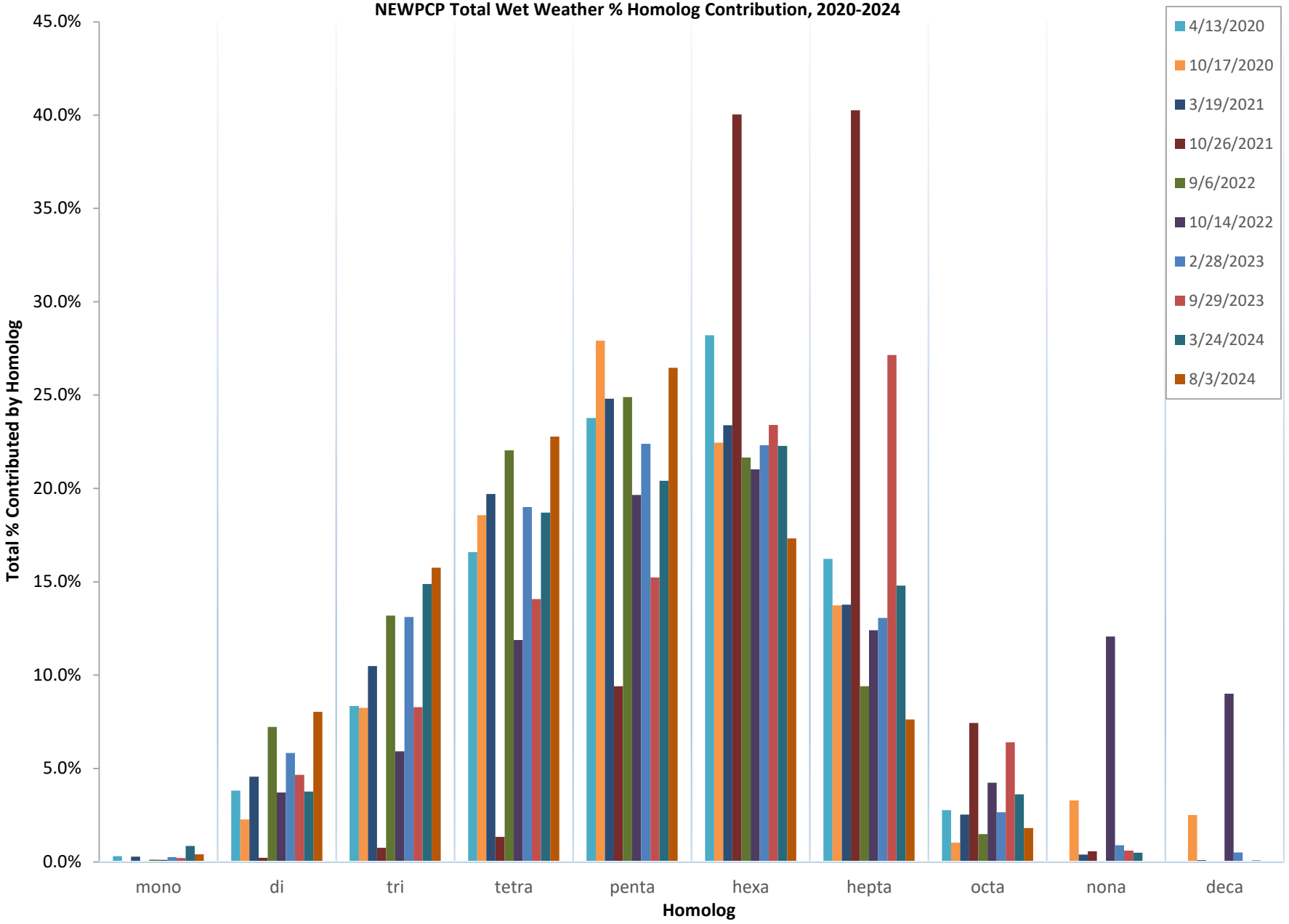


**Figure A5**
**SEWPCP Total Wet Weather % Homolog Contribution, 2020-2024**

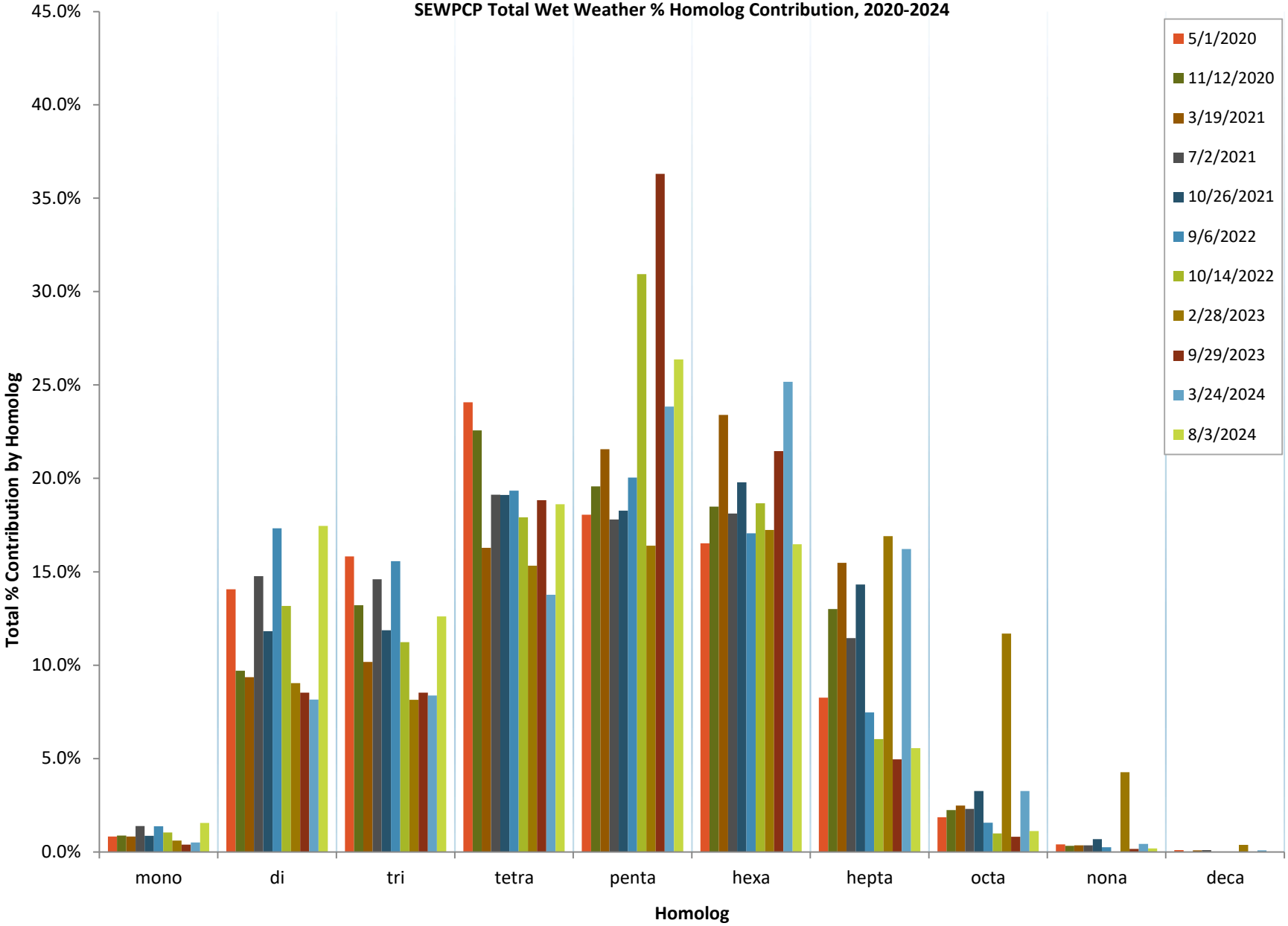


**Figure A6**
**SWWPCP Total Wet Weather % Homolog Contribution, 2020-2024**

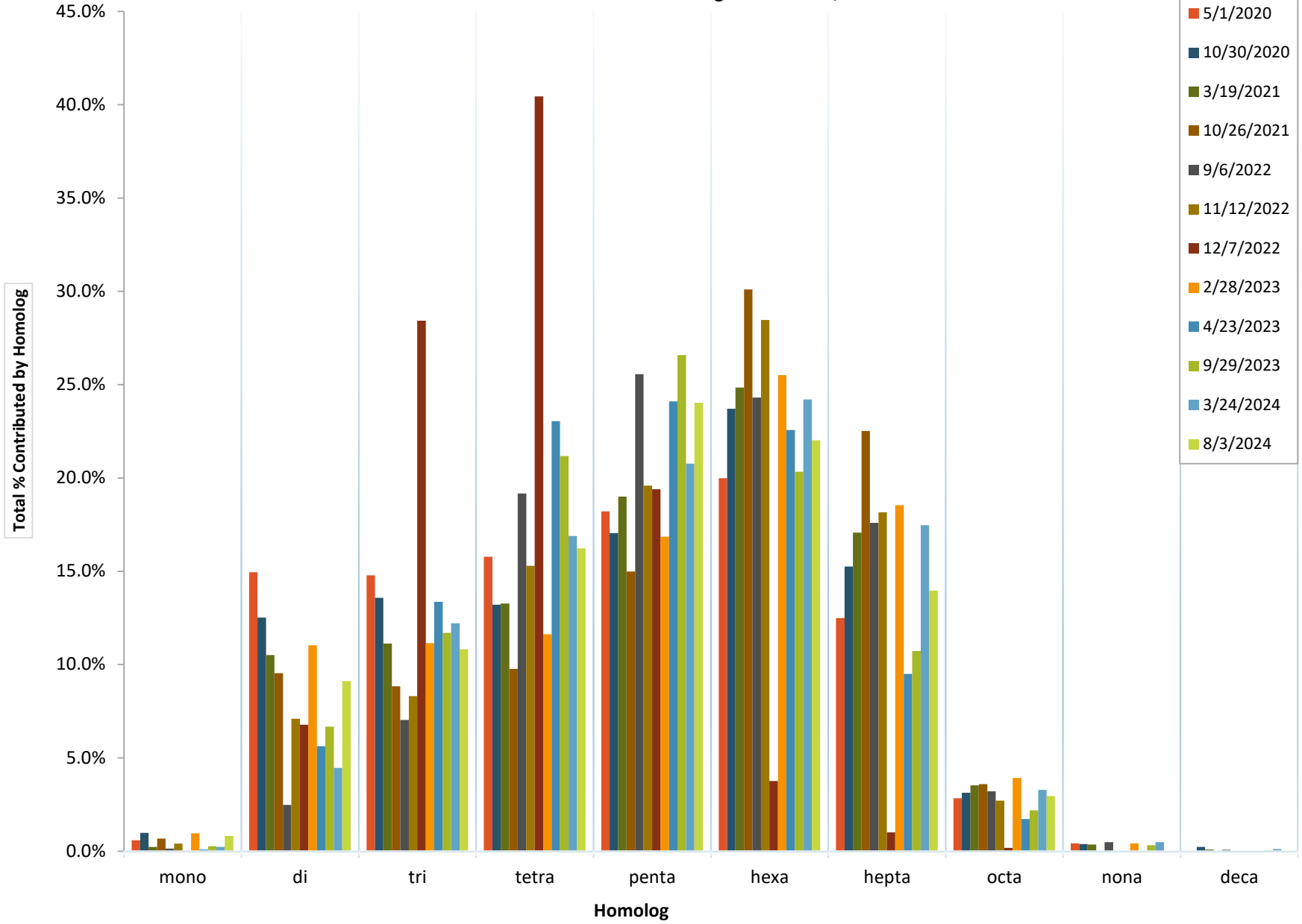


**Figure A7**
**NEWPCP Median PCB Homolog % Contribution**
**Dry and Wet Weather Samples, 2013-2024**

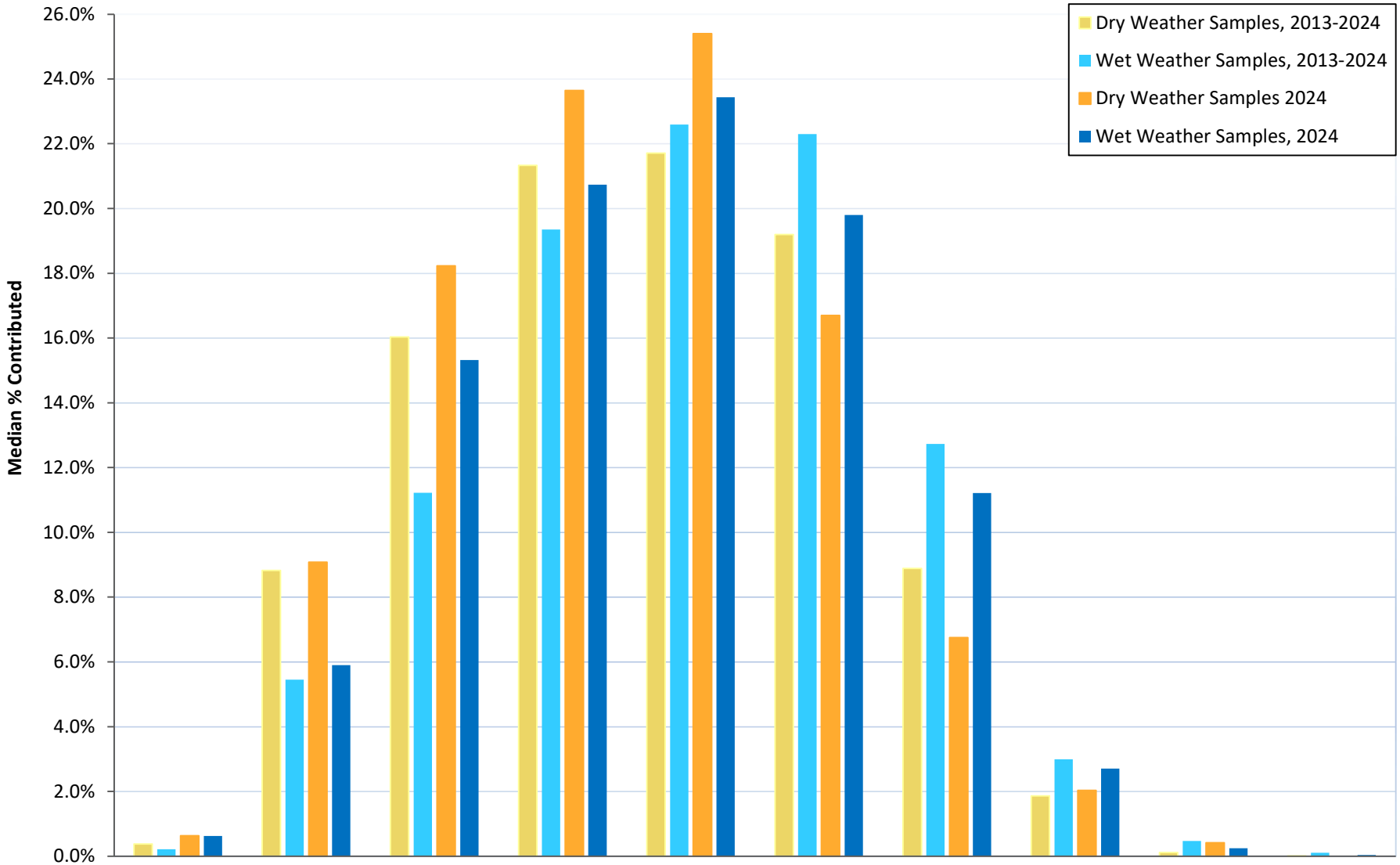


**Figure A8**
**SEWPCP Median PCB Homolog % Contribution**
**Dry and Wet Weather Samples, 2013-2024**

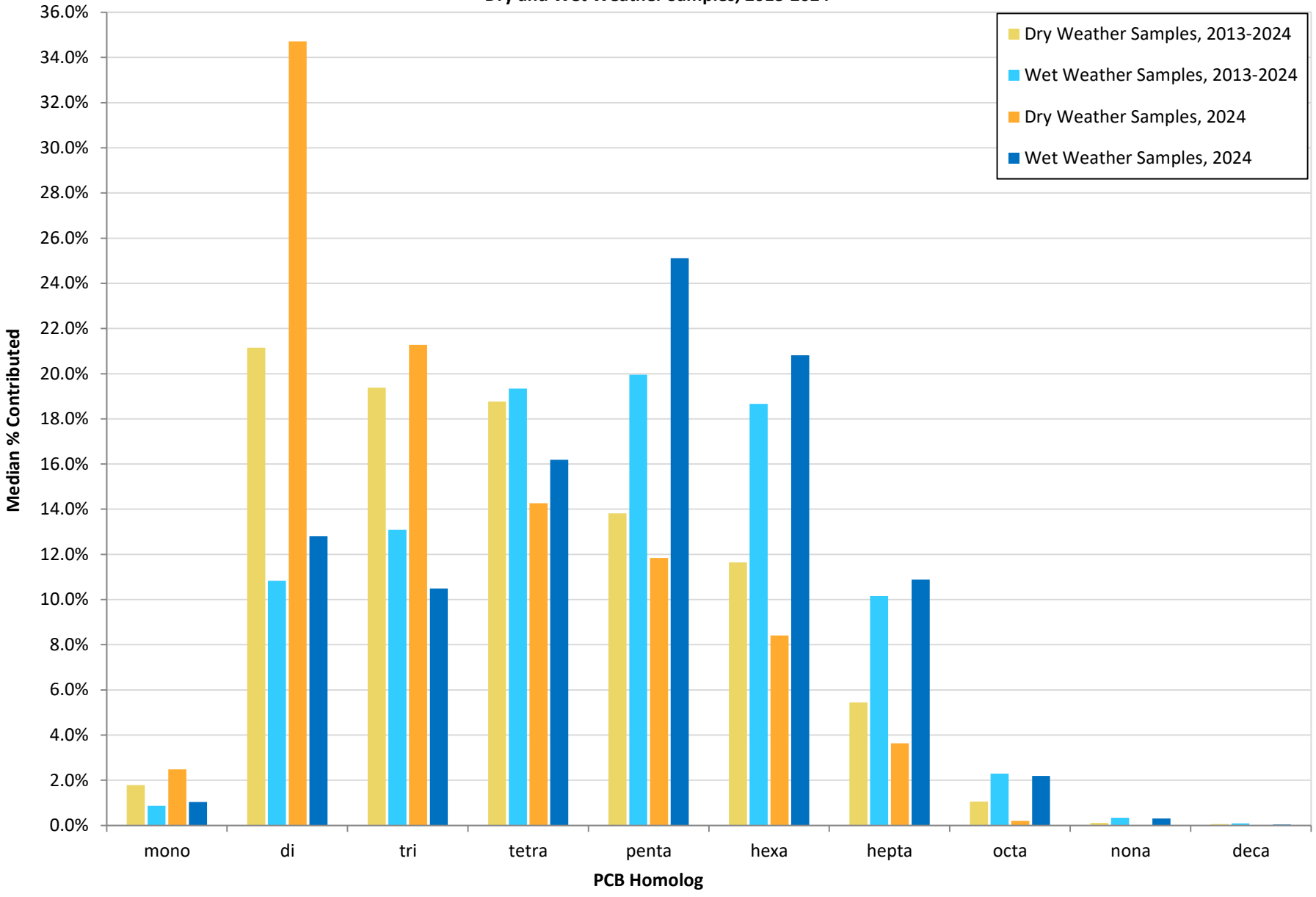
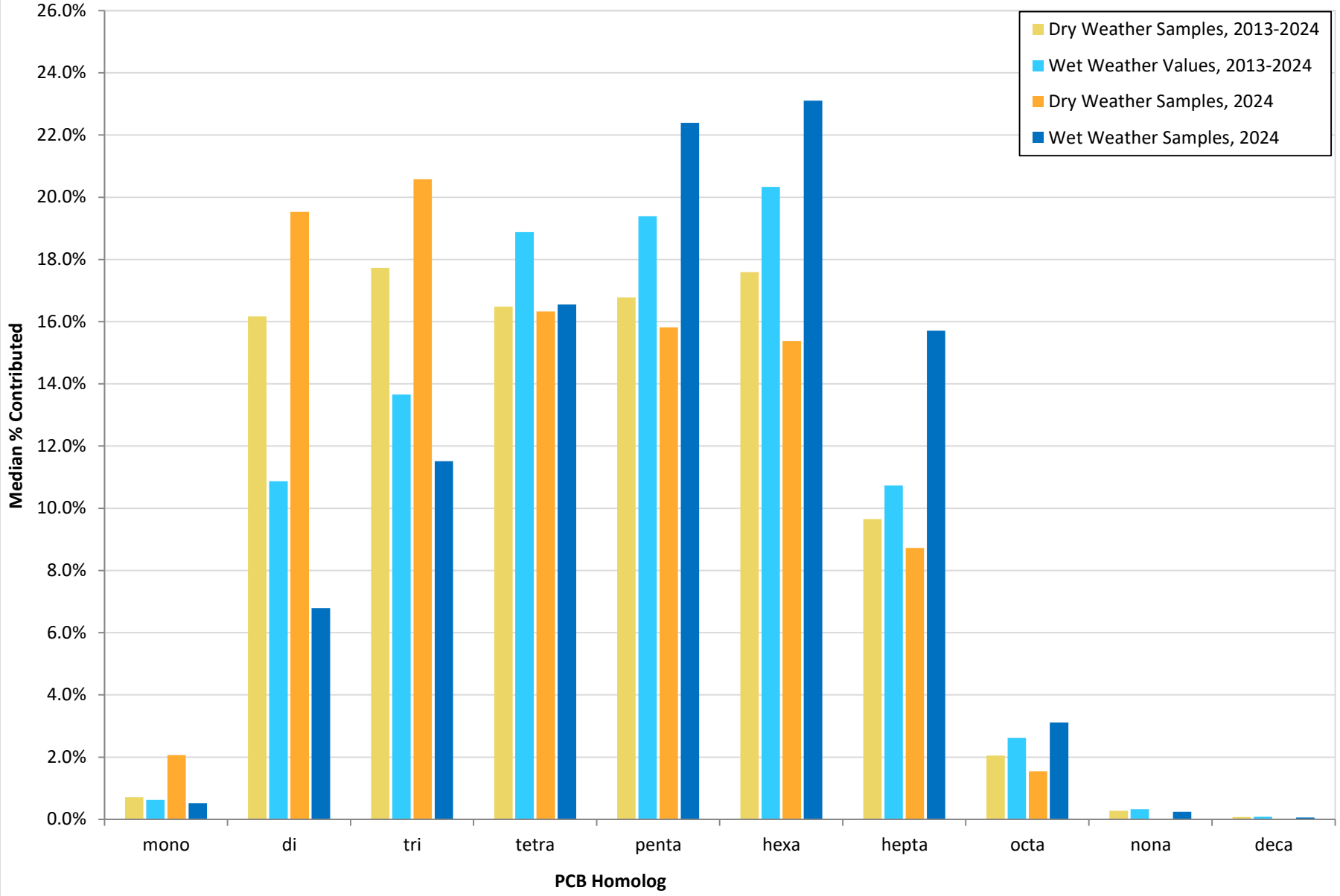


**Figure A9**
**SWWPCP Median PCB Homolog % Contribution**
**Dry and Wet Weather Samples, 2013-2024**



# Attachment B

# Potential Sources and Inspection Findings

# *Table B1 - Known, Probable and Potential Sources and Measures to Address Sources*

| **Source** | **Source Type** | | | **Measure to Address Source** |
|---|---|---|---|---|
| | *Known* | *Probable* | *Potential* | |
| Water Supply (Delaware and Schuylkill Rivers) | X | | | PCB PMP and action by others |
| Ferric Chloride used in Water Treatment | X | | | Switched ferric chloride suppliers |
| Sludge Lagoons (NEWPCP and SWWPCP) | | X | | Trackdown for each WPCP calls for sampling and analysis |
| PCB Device sites in sewershed of each WPCP (see Attachment B, "Inspections of Potential Source Sites") | | | X | Site inspections, evaluation and followup |
| Significant Industrial Users | | | X | Modify permits as warranted |
| Electric Company (PECO) customers | | | X | Undetermined. PECO will not share customer information. |
| Township Connections | | | X | Sample points of connections for PCBs |
| Groundwater Discharges | | | X | Require PCB monitoring |
| Utility Manhole Pumpouts | | | X | Require PCB monitoring |

# Philadelphia Water Department

## Inspections by Treatment Plant

01/1/2024 - 12/31/2024

| LocID | NAME: | ADDRESS: | LOCATION | CONTACT | EQUIPMENT | NUMBER | CONC (PPM) | GALLONS | LEAKS? | INSP DATE | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Receiving Plant: NEWPCP** | | | | | | | | | | | |
| PCB-NE022 | GE International, Inc | 1040 E Erie Ave 19124 | Outside W & S | Richard Price | Transformer | 3 | <50 | N/A | No | 07/26/24 | In Use |
| PCB-NE025 | GE International, Inc | 1040 E Erie Ave 19124 | Low bay [col H PCB storage area] | Richard Price | Transformer | 0 | <50 | N/A | No | 07/26/24 | Removed From Site |
| PCB-NE112 | School District of Philadelphia | 100 W Duncannon St 19120 | Olney High School | Stephen Link | Transformer | 2 | N/A | N/A | Staining | 10/21/24 | In Use |
| PCB-NE214 | Neatsfoot Oil Corporation | 2925 E. Ontario St. 19134 | Div of nupro industries | Raymond Feyerham | Transformer | 1 | N/A | N/A | No | 10/31/24 | In Use |
| PCB-NE217 | Philadelphia Rust-Proof Company, Inc. | 2086 E Willard St 19134 | Outside | Richard Vezzosi | Capacitor | 3 | <50 | 5 | No | 10/24/24 | In Use |
| PCB-NE226 | Domestic Uniform Rental | 4100 Frankford Ave 19124 | Outside | Dennis Glancey | Transformer | 1 | <50 | N/A | No | 10/24/24 | In Use |
| PCB-NE260 | Crown Bakeries, LLC | 5698 Rising Sun Ave 19120 | Electrical rm | Alex Hatza | Transformer | 1 | N/A | 637 | Staining | 10/31/24 | In Use |
| PCB-NE260a | Wayne Mills Corp | 130 W Berkley St 19144 | Basement | Doug Wiegand | Transformer | 1 | <50 | 100 | No | 11/20/24 | In Use |
| PCB-NE261 | Dietz & Watson, Inc | 5701 Tacony St 19135 | Boiler rm | Wes Sweany | Transformer | 3 | N/A | 250 | No | 10/29/24 | In Use |
| PCB-NE262 | Dietz & Watson, Inc | 5701 Tacony St 19135 | Electrical rm | Wes Sweany | Capacitor | 5 | N/A | 150 | No | 10/29/24 | In Use |
| PCB-NE269 | Hillock Anodizing, Inc | 5101 Comly St 19135 | Outside | John Hillock | Transformer | 1 | N/A | N/A | No | 06/28/24 | In Use |
| PCB-NE270 | Hillock Anodizing, Inc | 7363A Tulip St 19136 | Elec rm | John Hillock | Transformer | 1 | N/A | N/A | No | 06/28/24 | In Use |
| PCB-NE290 | Newman & Company, Inc | 6101 Tacony St 19135 | Between bld L & I | Matt Ballasy | Transformer | 2 | <50 | 638 | No | 11/22/24 | In Use |
| PCB-NE291 | Newman & Company, Inc | 6101 Tacony St 19135 | Outside URSI | Matt Ballasy | Transformer | 1 | <50 | 325 | No | 11/22/24 | In Use |
| PCB-NE292 | Newman & Company, Inc | 6101 Tacony St 19135 | Skid yard NE corner | Matt Ballasy | Transformer | 1 | N/A | 774 | No | 11/22/24 | In Use |
| PCB-NE300 | Original Philly Holdings - Hunting Park | 520 E Hunting Park Ave 19124 | Outside by grease trap | Tyler Muckle | Transformer | 2 | N/A | 308 | No | 01/30/24 | In Use |
| PCB-NE303 | Philadelphia Gas Works-Richmond | 3100 E Venango St 19134 | Outside | Chin So | Transformer | 2 | <2.0 | 200 | No | 04/04/24 | In Use |
| PCB-NE304 | Philadelphia Gas Works-Richmond | 3100 E Venango St 19134 | Inside | Chin So | Transformer | 2 | <2.0 | 765 | No | 04/04/24 | In Use |
| PCB-NE305 | Philadelphia Gas Works-Richmond | 3100 E Venango St 19134 | Inside | Chin So | Transformer | 2 | <2.0 | 252 | No | 04/04/24 | In Use |
| PCB-NE311 | Dietz & Watson, Inc | 5701 Tacony St 19135 | Truck Wash Area | Wes Sweany | Transformer | 1 | N/A | 250 | No | 10/29/24 | In Use |
| PCB-NE315 | School District of Philadelphia | 243 E Alleghney Ave 19134 | Stenton | Stephen Link | Transformer | 1 | N/A | 208 | No | 10/21/24 | In Use |

| LocID | NAME: | ADDRESS: | LOCATION | CONTACT | EQUIPMENT | NUMBER | CONC (PPM) | GALLONS | LEAKS? | INSP DATE | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Receiving Plant: NEWPCP** | | | | | | | | | | | |
| PCB-NE319 | Original Philly Holdings - North American | 4001 N. American St 19140 | Outside near grease trap | Tyler Muckle | Transformer | 1 | <50 | N/A | No | 08/14/24 | In Use |

**Receiving Plant: NEWPCP**

**Drainage Area: Combined** **Total Number of Inspections completed: 22**

| LocID | NAME: | ADDRESS: | LOCATION | CONTACT | EQUIPMENT | NUMBER | CONC (PPM) | GALLONS | LEAKS? | INSP DATE | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Receiving Plant: NEWPCP** | | | | | | | | | | | |
| PCB-NE046 | Northeast Shopping Center | 9173 Roosevelt Blvd 19114 | Woolworths rear | N/A | Transformer | 1 | <50 | 425 | Staining | 08/09/24 | In Use |
| PCB-NE047 | Northeast Shopping Center | 9173 Roosevelt Blvd 19114 | Office exterior | N/A | Transformer | 1 | N/A | 250 | Staining | 08/09/24 | In Use |
| PCB-NE053 | School District of Philadelphia | 11061 Knights Rd 19154 | Fitzpatrick School | Stephen Link | Transformer | 2 | N/A | N/A | No | 10/18/24 | In Use |
| PCB-NE054 | School District of Philadelphia | 8901 Alicia St 19115 | Greenberg School | Stephen Link | Transformer | 3 | N/A | N/A | No | 10/18/24 | In Use |
| PCB-NE163 | PECO | 1100 Ivy Hill Rd 19150 | Cedarbrook substation | Bryan Dwyer | Transformer | 6 | <50 | N/A | Staining | 06/10/24 | In Use |
| PCB-NE208 | Maryland and Virginia Milk Producers Cooperative Association, Inc. | 10975 Dutton Rd 19154 | Outside cage | Travis Kurtz | Transformer | 2 | N/A | N/A | No | 02/14/24 | In Use |
| PCB-NE224 | Pepsi Beverages Co | 11701 Roosevelt Blvd 19154 | Boiler rm | Kellie Della Penna | Transformer | 2 | <50 | 465 | No | 04/11/24 | In Use |
| PCB-NE225 | Pepsi Beverages Co | 11701 Roosevelt Blvd 19154 | Outside | Kellie Della Penna | Transformer | 2 | <50 | N/A | No | 04/11/24 | In Use |
| PCB-NE271 | I. Rice | 11500D Roosevelt Blvd 19116 | E side of building | Ashly Marchese | Transformer | 1 | N/A | 545 | No | 02/20/24 | In Use |
| PCB-NE275 | Premier Medical | 10090 Sandmeyer Ln 19116 | Bld rear | Domenick Grergory | Transformer | 3 | N/A | N/A | No | 03/25/24 | In Use |
| PCB-NE280 | AgustaWestland Philadelphia Corporation | 3050-3076 Red Lion Rd 19114 | IFO bld 3050 | Hassan Riad | Transformer | 1 | N/A | 315 | No | 06/17/24 | In Use |
| PCB-NE281 | AgustaWestland Philadelphia Corporation | 3076 Red Lion Rd 19114 | IFO bld 3076 | Hassan Riad | Transformer | 2 | N/A | 375 | No | 06/17/24 | In Use |
| PCB-NE283 | Northeast Fence & Iron Works, Inc. | 8451 Hegerman St 19136 | Behind admin bld | William O'Sullivan | Transformer | 1 | N/A | N/A | No | 06/20/24 | In Use |
| PCB-NE288 | Tastepoint | 10801 Decatur Rd 19154 | Boiler room | Stacey Demarco | Transformer | 3 | <50 | 363 | No | 03/19/24 | In Use |
| PCB-NE294 | AgustaWestland Philadelphia Corporation | 3050-3076 Red Lion Rd 19114 | Outside Training Bld | Hassan Riad | Transformer | 1 | N/A | 386 | No | 06/17/24 | In Use |
| PCB-NE306 | AgustaWestland Philadelphia Corporation | 3070 Red Lion Road 19114 | 3070 New Hangar | Hassan Riad | Transformer | 1 | <50 | N/A | No | 06/17/24 | In Use |
| PCB-NE312 | Jerith Manufacturing LLC | 14400 McNulty Rd 19154 | Near west pond | Steven Rector | Transformer | 1 | N/A | N/A | No | 11/20/24 | In Use |
| PCB-NE313 | Jerith Manufacturing LLC | 14400 McNulty Rd 19154 | Front circle of administrative building | Steven Rector | Transformer | 1 | N/A | N/A | No | 11/20/24 | In Use |

**Receiving Plant: NEWPCP**

**Drainage Area: MS4** **Total Number of Inspections completed: 18**

| LocID | NAME: | ADDRESS: | LOCATION | CONTACT | EQUIPMENT | NUMBER | CONC (PPM) | GALLONS | LEAKS? | INSP DATE | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Receiving Plant: NEWPCP** | | | | | | | | | | | |
| PCB-NE209 | C. Lever Colors, Inc | 736 Dunks Ferry Rd 19020 | Outside | Scott Lever | Transformer | 1 | N/A | N/A | No | 04/02/24 | In Use |
| PCB-NE282 | Gill Aluminum Corp. | 1384 Byberry Rd 19020 | Telephone pole in parking lot | Kelli Gill | Transformer | 1 | N/A | N/A | No | 12/19/24 | In Use |
| PCB-NE289 | Qualawash | 1000 Imperial Rd 19020 | Outside bld rear | Dan Bright | Transformer | 1 | <50 | N/A | No | 05/29/24 | In Use |
| PCB-NE295 | Sigma Pharm Laboratories, LLC | 3375 Progress Dr 19020 | Loading docks | Nimin Kurien | Transformer | 1 | N/A | N/A | No | 06/04/24 | In Use |
| PCB-NE296 | Sigma Pharm Laboratories, LLC | 3375 Progress Dr 19020 | Along Progress Dr | Nimin Kurien | Transformer | 1 | N/A | N/A | No | 06/04/24 | In Use |
| PCB-NE297 | Sigma Pharm Laboratories, LLC | 3399 Progress Dr 19020 | Along Progress Dr | Nimin Kurien | Transformer | 1 | <50 | N/A | No | 06/04/24 | In Use |
| PCB-NE314 | Teletronics Technology Corporation | 15 Terry Dr 18940 | Building side. | Hector Maldonado | Transformer | 1 | <50 | N/A | No | 09/23/24 | In Use |
| PCB-NE318 | KVK Tech | 110 Terry Dr 18940 | Outside rear. | Vinay Yadav | Transformer | 1 | <500 | 400 | No | 07/17/24 | In Use |

**Receiving Plant: NEWPCP**

**Drainage Area: Township** **Total Number of Inspections completed: 8**

**Receiving Plant: NEWPCP** **Total Number of Inspections completed: 48**

| LocID | NAME: | ADDRESS: | LOCATION | CONTACT | EQUIPMENT | NUMBER | CONC (PPM) | GALLONS | LEAKS? | INSP DATE | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Receiving Plant: SEWPCP** | | | | | | | | | | | |
| PCB-SE202 | PECO Energy, Oregon Ave Shop | 2610 S Christopher Columbus Blvd 19148 | Parking lot | George Horvath | Transformer | 50 | N/A | N/A | No | 07/10/24 | Out of Use |
| PCB-SE203 | Simons Brothers Co. | 2438 Sergeant St 19125 | By front door | Susan Keyser | Capacitor | 1 | N/A | N/A | No | 10/23/24 | In Use |
| PCB-SE205 | INEOS Composites US, LLC | 2801 Christopher Columbus Blvd 19148 | By Nitrogen | Scott Wright | Transformer | 1 | <50 | N/A | No | 09/25/24 | In Use |
| PCB-SE206 | INEOS Composites US, LLC | 2801 Christopher Columbus Blvd 19148 | Front gate | Scott Wright | Transformer | 1 | <50 | N/A | No | 09/25/24 | In Use |
| PCB-SE207 | INEOS Composites US, LLC | 2801 Christopher Columbus Blvd 19148 | Roof of bld 10 | Scott Wright | Transformer | 1 | <50 | N/A | No | 09/25/24 | In Use |
| PCB-SE243 | National Chemical Laboratories, Inc | 401 N 10th St 19123 | Transformer rm | Harry Pollack | Transformer | 4 | <50 | 410 | No | 01/24/24 | In Use |
| **Receiving Plant: SEWPCP** | | | | | | | | | | | |
| **Drainage Area: Combined** | | **Total Number of Inspections completed: 6** | | | | | | | | | |
| PCB-SE245 | PECO | 7735 Germantown Ave 19118 | Chestnut Hill substation | Bryan Dwyer | Transformer | 3 | <50 | N/A | Staining | 06/10/24 | In Use |
| PCB-SE246 | PSNY (NFPC) | 4747 S Broad St 19112 | S Building 20 | Allyson Kundrick | Transformer | 4 | <50 | N/A | No | 06/06/24 | In Use |
| PCB-SE246 | PSNY (NFPC) | 4747 S Broad St 19112 | S Building 20 | Allyson Kundrick | Transformer | 4 | N/A | N/A | No | 08/30/24 | In Use |
| PCB-SE247 | PSNY (NFPC) | 4747 S Broad St 19112 | SW Building 20 | Allyson Kundrick | Transformer | 5 | N/A | N/A | No | 08/30/24 | In Use |
| PCB-SE250 | Tasty Baking Co. | 4300 S 26th St 19112 | Building rear | Pat West | Transformer | 2 | <50 | N/A | No | 05/31/24 | In Use |
| PCB-SE250 | Tasty Baking Co. | 4300 S 26th St 19112 | Building rear | Pat West | Transformer | 2 | <50 | N/A | No | 08/16/24 | In Use |
| PCB-SE318 | WuXi Advance Therapies | 4751 League Island Blvd 19112 | Loading dock | Aysia Gandy | Transformer | 2 | N/A | N/A | No | 10/15/24 | In Use |
| PCB-SE319 | WuXi Advance Therapies | 400 Rouse Blvd 19112 | Rear of facility | Aysia Gandy | Transformer | 2 | N/A | N/A | No | 11/20/24 | In Use |
| PCB-SE320 | WuXi Advance Therapies | 4701 League Island Blvd 19112 | Rear of bld | Aysia Gandy | Transformer | 1 | N/A | N/A | No | 07/15/24 | In Use |
| PCB-SE321 | WuXi Advance Therapies | 4000 S 26th St 19112 | Rear of bld | Aysia gandy | Transformer | 1 | N/A | N/A | No | 11/20/24 | In Use |
| PCB-SE323 | Iovance Biotherapeutics, Inc. | 300 Rouse Blvd 19112 | Parking Lot | Diana Rehborn | Transformer | 3 | <50 | 457 | No | 09/24/24 | In Use |
| **Receiving Plant: SEWPCP** | | | | | | | | | | | |
| **Drainage Area: MS4** | | **Total Number of Inspections completed: 11** | | | | | | | | | |
| **Receiving Plant: SEWPCP** | | **Total Number of Inspections completed: 17** | | | | | | | | | |

| LocID | NAME: | ADDRESS: | LOCATION | CONTACT | EQUIPMENT | NUMBER | CONC (PPM) | GALLONS | LEAKS? | INSP DATE | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Receiving Plant: SWWPCP** | | | | | | | | | | | |
| PCB-SW127 | School District of Philadelphia | 1699 Spring Garden St 19130 | Masterman | Stephen Link | Transformer | 4 | N/A | N/A | Staining | 10/22/24 | In Use |
| PCB-SW218 | Philadelphia Zoo | 3400 W Girard Ave 19104 | Picnic grove | Matt Corcoran | Transformer | 1 | <50 | 100 | No | 05/28/24 | In Use |
| PCB-SW219 | Philadelphia Zoo | 3400 W Girard Ave 19104 | KidZooU | Matt Corcoran | Transformer | 2 | N/A | 100 | No | 05/28/24 | In Use |
| PCB-SW245 | National Railroad Passenger Corp | 30th & Race Sts Amtrak Race St./Penn Coach Yard 19104 | Overhead substation | Melody Hicks | Transformer | 7 | N/A | N/A | No | 09/25/24 | In Use |
| PCB-SW246 | National Railroad Passenger Corp | 30th & Race Sts Amtrak Race St./Penn Coach Yard 19104 | Near generator with day tank | Melody Hicks | Transformer | 1 | N/A | 800 | No | 09/25/24 | In Use |
| PCB-SW247 | National Railroad Passenger Corp | 30th & Race Sts Amtrak Race St./Penn Coach Yard 19104 | Car repair shop | Melody Hicks | Transformer | 1 | <1 | 800 | No | 09/25/24 | In Use |
| PCB-SW248 | National Railroad Passenger Corp | 30th & Race Sts Amtrak Race St./Penn Coach Yard 19104 | N of o/w separator | Melody Hicks | Transformer | 1 | <50 | N/A | No | 09/25/24 | In Use |
| PCB-SW249 | National Railroad Passenger Corp | 30th & Race Sts Amtrak Race St./Penn Coach Yard 19104 | Further north of o/w separatpr | Melody Hicks | Transformer | 1 | <50 | 280 | No | 09/25/24 | In Use |
| PCB-SW250 | National Railroad Passenger Corp | 30th & Race Sts Amtrak Race St./Penn Coach Yard 19104 | SE of bld #42 | Melody Hicks | Transformer | 1 | N/A | 280 | No | 09/25/24 | In Use |
| PCB-SW251 | National Railroad Passenger Corp | 30th & Race Sts Amtrak Race St./Penn Coach Yard 19104 | Engineering bld #43 | Melody Hicks | Transformer | 1 | N/A | 260 | No | 09/25/24 | In Use |
| PCB-SW254 | Vicinity Energy Philadelphia, Inc. | 2600 Christian St 19146 | Schuylkill River side of plant | Jessica Hartley | Transformer | 4 | N/A | N/A | Staining | 11/26/24 | In Use |
| PCB-SW255 | Vicinity Energy Philadelphia, Inc. | 2600 Christian St 19146 | Middle of plant | Jessica Hartley | Transformer | 2 | N/A | N/A | Staining | 11/26/24 | In Use |
| PCB-SW256 | Vicinity Energy Philadelphia, Inc. | 2600 Christian St 19146 | Christian St entrance | Jessica Hartley | Transformer | 4 | N/A | N/A | Yes | 11/26/24 | In Use |
| PCB-SW257 | Philadelphia Zoo | 3400 W Girard Ave 19104 | Parking Garage | Matt Corcoran | Transformer | 5 | N/A | 100 | No | 05/28/24 | In Use |
| PCB-SW259 | Philadelphia Zoo | 3400 W Girard Ave 19104 | Big Cat Falls | Matt Corcoran | Transformer | 5 | N/A | 100 | No | 05/28/24 | In Use |
| PCB-SW261 | Philadelphia Zoo | 3400 W Girard Ave 19104 | Treehouse #1- #2 | Matt Corcoran | Transformer | 2 | N/A | 100 | No | 05/28/24 | In Use |

**Receiving Plant: SWWPCP**

**Drainage Area: Combined** **Total Number of Inspections completed: 16**

| LocID | NAME: | ADDRESS: | LOCATION | CONTACT | EQUIPMENT | NUMBER | CONC (PPM) | GALLONS | LEAKS? | INSP DATE | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Receiving Plant: SWWPCP** | | | | | | | | | | | |
| PCB-SW158 | Sun Chemical | 3301 Hunting Park Ave 19132 | Bld 1 Boiler vault | Frank Zappavigna | Capacitor & Transformer | 7 | <50 | N/A | No | 03/27/24 | In Use |
| PCB-SW203 | LSG Sky Chefs | 8401 Escort Ave 19153 | Adminstration bld | Peter Klabunde | Transformer | 1 | <50 | N/A | No | 06/20/24 | In Use |
| PCB-SW231 | Penn Fishing Tackle Mfg Co | 3028 W Hunting Park Ave 19132 | Anodizing room | David Shanks | Capacitor | 2 | <50 | 1.23 | No | 04/11/24 | In Use |
| PCB-SW232 | Penn Fishing Tackle Mfg Co | 3028 W Hunting Park Ave 19132 | Waste treatment area | David Shanks | Capacitor | 2 | <50 | 1.3 | No | 04/11/24 | In Use |
| PCB-SW233 | Penn Fishing Tackle Mfg Co | 3028 W Hunting Park Ave 19132 | Receiving/mail room | David Shanks | Capacitor | 1 | <50 | 1.03 | No | 04/11/24 | In Use |
| PCB-SW234 | Penn Fishing Tackle Mfg Co | 3028 W Hunting Park Ave 19132 | Light machine area | David Shanks | Capacitor | 1 | <50 | 1.39 | No | 04/11/24 | In Use |
| PCB-SW235 | Penn Fishing Tackle Mfg Co | 3028 W Hunting Park Ave 19132 | Basement electrical | David Shanks | Capacitor | 4 | <50 | 70 | No | 04/11/24 | In Use |
| PCB-SW236 | Penn Fishing Tackle Mfg Co | 3028 W Hunting Park Ave 19132 | Outside fenced area | David Shanks | Transformer | 3 | <50 | 291 | No | 04/11/24 | In Use |
| PCB-SW237 | Penn Fishing Tackle Mfg Co | 3028 W Hunting Park Ave 19132 | First floor transformer cage | David Shanks | Other | 2 | <50 | 64 | No | 04/11/24 | In Use |
| PCB-SW238 | Penn Fishing Tackle Mfg Co | 3028 W Hunting Park Ave 19132 | Basement electrical | David Shanks | Other | 1 | <50 | 64 | No | 04/11/24 | In Use |
| PCB-SW244 | PECO | 2600 W Westmoreland St 19129 | Westmoreland sub | Bryan Dwyer | Transformer | 8 | N/A | N/A | No | 06/10/24 | In Use |
| PCB-SW265 | LSG Sky Chefs | 8401 Escort Ave 19153 | Escort Ave | Peter Klabunde | Transformer | 1 | N/A | N/A | No | 06/20/24 | In Use |
| PCB-SW267 | PBF Logistics Products Terminals | 3400 S 67th St 19153 | South by pumps | John Grisi | Transformer | 2 | N/A | 470 | No | 05/22/24 | In Use |
| PCB-SW268 | PBF Logistics Products Terminals | 3400 S 67th St 19153 | Near additive tanks | John Grisi | Transformer | 1 | <50 | N/A | No | 05/22/24 | In Use |
| PCB-SW269 | PBF Logistics Products Terminals | 3400 S 67th St 19153 | North switch gate | John Grisi | Transformer | 1 | N/A | 465 | No | 05/22/24 | In Use |
| PCB-SW270 | PBF Logistics Products Terminals | 3400 S 67th St 19153 | Old north | John Grisi | Transformer | 2 | N/A | 0 | No | 05/22/24 | Out of Use |
| PCB-SW271 | Philadelphia Gas Work-Passyunk | 3100 Passyunk Ave 19145 | Outside by sample point | Chin So | Transformer | 16 | <50 | 380 | No | 10/24/24 | In Use |

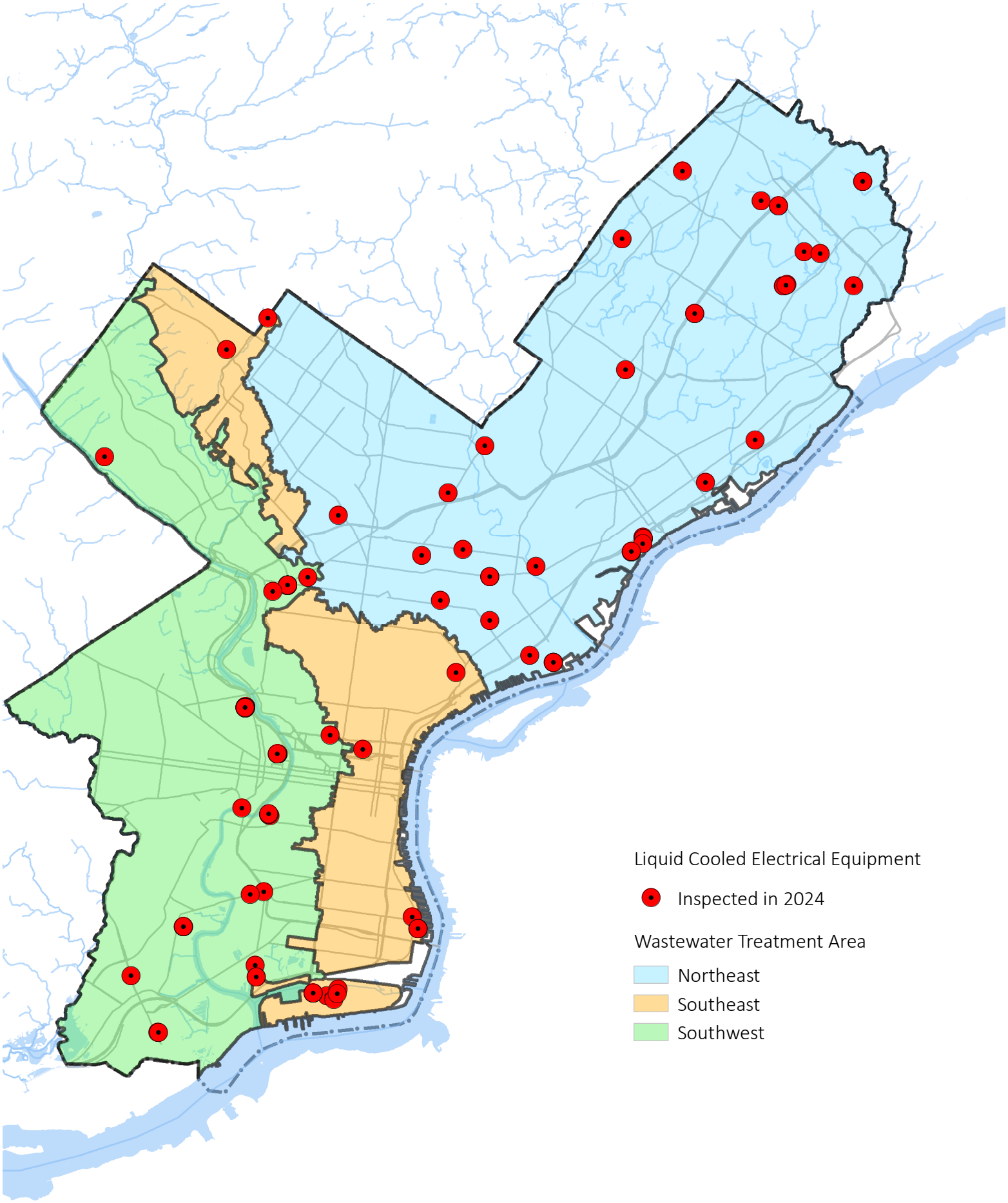
**Receiving Plant: SWWPCP**

**Drainage Area: MS4** **Total Number of Inspections completed: 17**

| LocID | NAME: | ADDRESS: | LOCATION | CONTACT | EQUIPMENT | NUMBER | CONC (PPM) | GALLONS | LEAKS? | INSP DATE | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Receiving Plant: SWWPCP** | | | | | | | | | | | |
| PCB-SW157 | PECO | 7200 Umbria St 19128 | Roxborough station | Bryan Dwyer | Transformer | 3 | <50 | N/A | Staining | 06/10/24 | In Use |
| PCB-SW220 | Philadelphia Zoo | 3400 W Girard Ave 19104 | Reptile House | Matt Corcoran | Transformer | 1 | N/A | 100 | No | 05/28/24 | In Use |
| PCB-SW221 | Philadelphia Zoo | 3400 W Girard Ave 19104 | Switch Gear 132 | Matt Corcoran | Transformer | 1 | N/A | N/A | No | 05/28/24 | In Use |
| PCB-SW222 | Philadelphia Zoo | 3400 W Girard Ave 19104 | Solitude | Matt Corcoran | Transformer | 1 | N/A | 100 | No | 05/28/24 | In Use |
| PCB-SW258 | Philadelphia Zoo | 3400 W Grard Ave 19104 | Balloon Plaza | Matt Corcoran | Transformer | 2 | N/A | 100 | No | 05/28/24 | In Use |
| PCB-SW260 | Philadelphia Zoo | 3400 W Girard Ave 19104 | Pump Room-Bird Valley | Matt Corcoran | Transformer | 1 | N/A | 100 | No | 05/28/24 | In Use |
| PCB-SW262 | Philadelphia Zoo | 3400 W Girard Ave 19104 | Otters | Matt Corcoran | Transformer | 1 | N/A | 100 | No | 05/28/24 | In Use |
| PCB-SW263 | Philadelphia Zoo | 3400 W Girard Ave 19104 | ISH #1- #2; North Gate Restroom Transformer | Matt Corcoran | Transformer | 3 | N/A | 100 | No | 05/28/24 | In Use |
| PCB-SW264 | Philadelphia Zoo | 3400 W Girard Ave 19104 | PECO Primate ANIMAL ; PECO PrimatePEOPLE | Matt Corcoran | Transformer | 4 | N/A | 50-60 | No | 05/28/24 | In Use |
| **Receiving Plant: SWWPCP** | | | | | | | | | | | |
| **Drainage Area: Non-Contributing** | | | **Total Number of Inspections completed: 9** | | | | | | | | |
| PCB-SW206 | Kenvue Brands LLC | 7050 Camp Hill Rd 19034 | Fire pump | Scott Kessler | Transformer | 1 | <50 | N/A | No | 10/09/24 | In Use |
| PCB-SW207 | Kenvue Brands LLC | 7050 Camp Hill Rd 19034 | By child care center | Scott Kessler | Transformer | 1 | <50 | N/A | No | 10/09/24 | In Use |
| PCB-SW208 | Kenvue Brands LLC | 7050 Camp Hill Rd 19034 | WWTP | Scott Kessler | Transformer | 1 | <50 | N/A | No | 10/09/24 | In Use |
| PCB-SW209 | Kenvue Brands LLC | 7050 Camp Hill Rd 19034 | Adminstration B | Scott Kessler | Transformer | 1 | <50 | N/A | No | 10/09/24 | In Use |
| PCB-SW210 | Kenvue Brands LLC | 7050 Camp Hill Rd 19034 | WTP | Scott Kessler | Transformer | 1 | <50 | N/A | No | 10/09/24 | In Use |
| PCB-SW211 | Kenvue Brands LLC | 7050 Camp Hill Rd 19034 | Main B | Scott Kessler | Transformer | 1 | <50 | N/A | No | 10/09/24 | In Use |
| PCB-SW213 | Astra Foods, Inc | 6430 Market St 19082 | Boiler rm T1 | Dimitri Poulimenos | Transformer | 1 | N/A | N/A | No | 10/24/24 | In Use |
| PCB-SW214 | Astra Foods, Inc | 6430 Market St 19082 | S bld T4 | Dimitri Poulimenos | Transformer | 1 | N/A | N/A | No | 10/24/24 | In Use |
| PCB-SW215 | Astra Foods, Inc | 6430 Market St 19082 | E bld T5 | Dimitri Poulimenos | Transformer | 1 | N/A | N/A | No | 10/24/24 | In Use |
| PCB-SW216 | Astra Foods, Inc | 6430 Market St 19082 | Centrifudge bld west of T4 | Dimitri Poulimenos | Transformer | 1 | N/A | N/A | No | 10/24/24 | In Use |
| PCB-SW272 | Integrated Deicing Services | 900 Tinicum Island Rd 19029 | Scattered throughout various locations in open area. | Paul Shubert | Transformer | 6 | N/A | N/A | No | 11/13/24 | In Use |
| **Receiving Plant: SWWPCP** | | | | | | | | | | | |
| **Drainage Area: Township** | | | **Total Number of Inspections completed: 11** | | | | | | | | |

**Receiving Plant: SWWPCP** **Total Number of Inspections completed: 53**

Total Inspections: 118

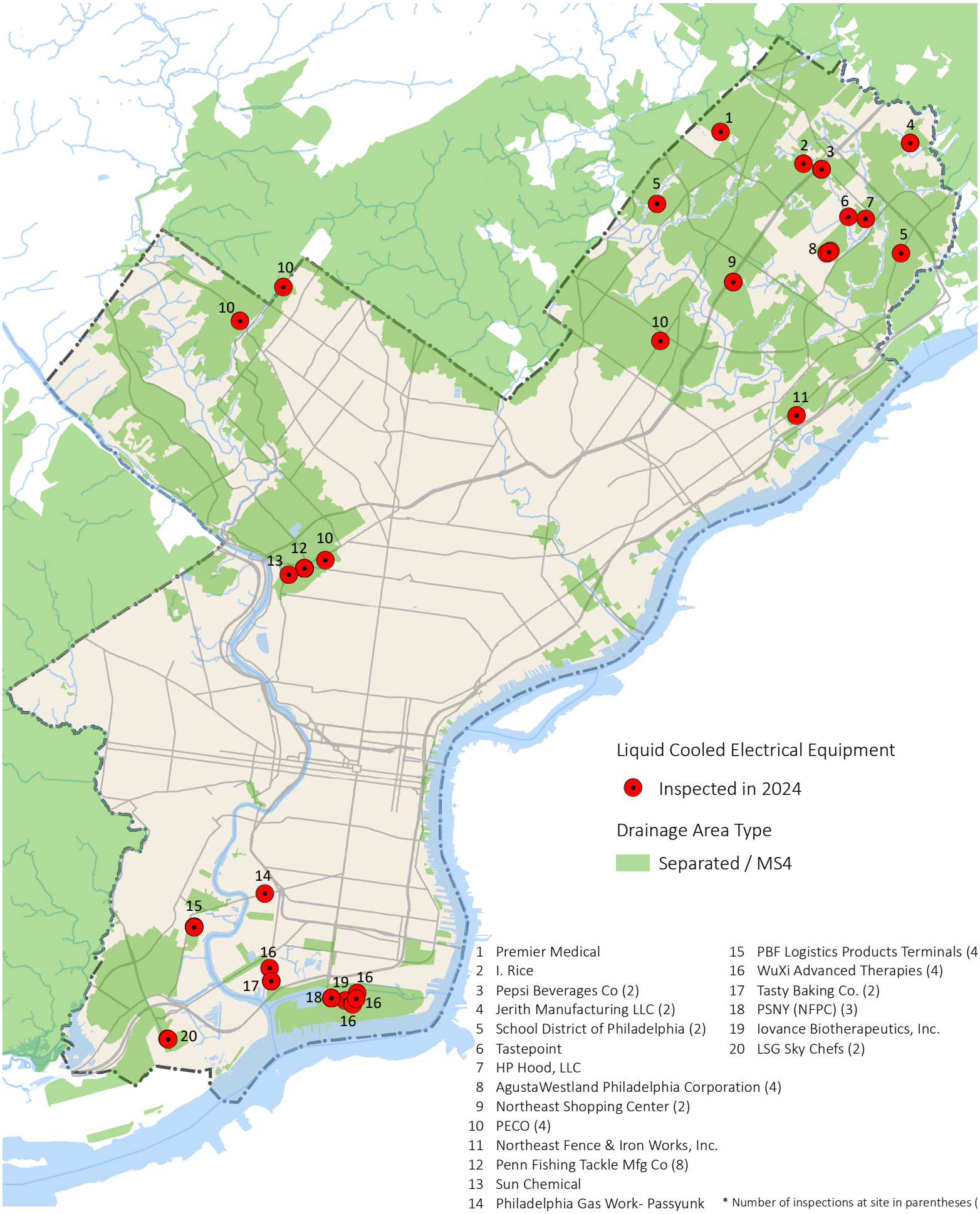



# Liquid Cooled Electrical Equipment Sites Inspected in 2024

By Wastewater Treatment Area, Philadelphia, PA



Source: Philadelphia Water Department, 2025
Created By: PWD GIS Unit, Feb 25th, 2025




1 Premier Medical
2 I. Rice
3 Pepsi Beverages Co (2)
4 Jerith Manufacturing LLC (2)
5 School District of Philadelphia (2)
6 Tastepoint
7 HP Hood, LLC
8 AgustaWestland Philadelphia Corporation (4)
9 Northeast Shopping Center (2)
10 PECO (4)
11 Northeast Fence & Iron Works, Inc.
12 Penn Fishing Tackle Mfg Co (8)
13 Sun Chemical
14 Philadelphia Gas Work- Passyunk
15 PBF Logistics Products Terminals (4)
16 WuXi Advanced Therapies (4)
17 Tasty Baking Co. (2)
18 PSNY (NFPC) (3)
19 Iovance Biotherapeutics, Inc.
20 LSG Sky Chefs (2)

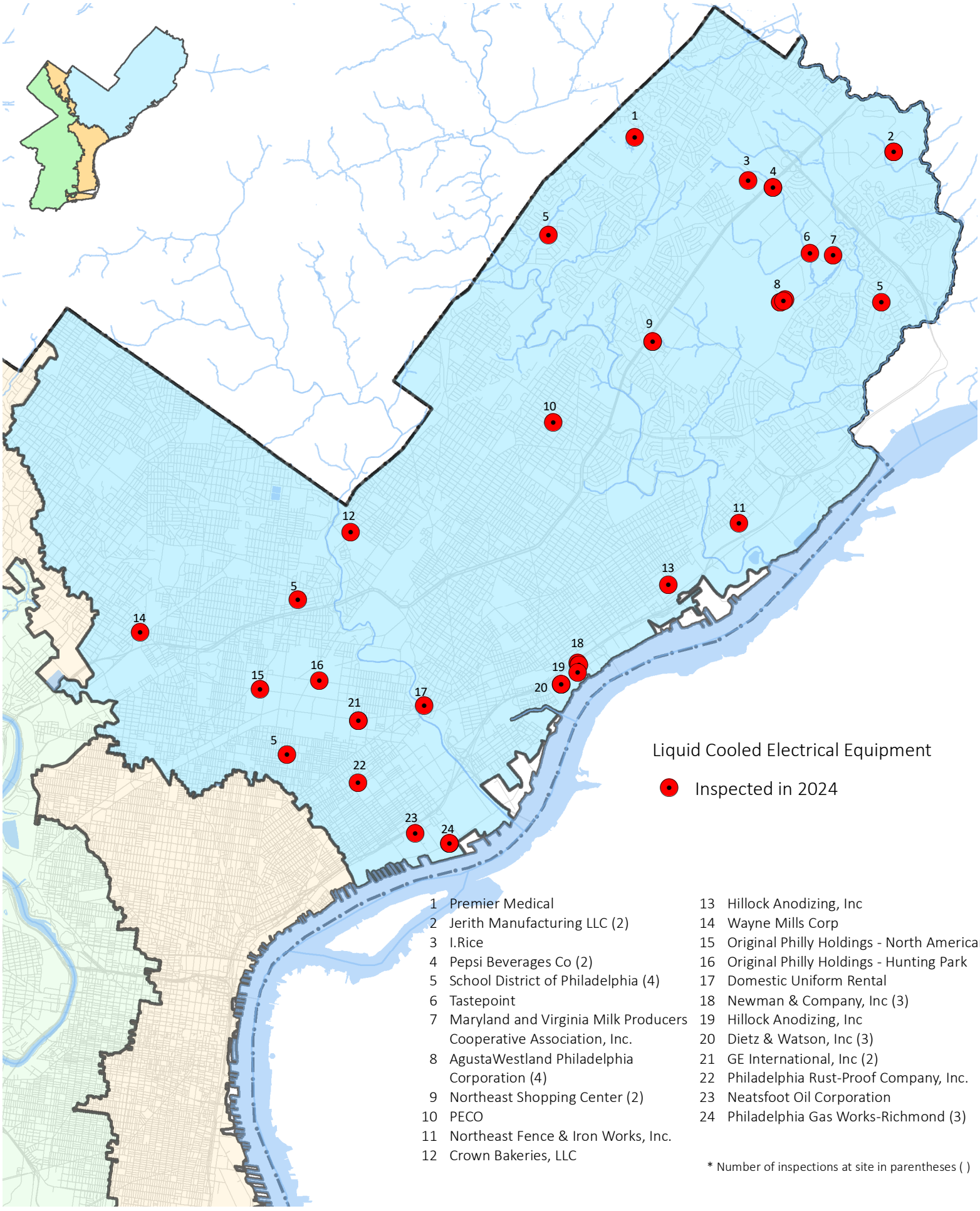
* Number of inspections at site in parentheses ( )

# Liquid Cooled Electrical Equipment Sites Inspected in 2024

In MS4 Areas, Philadelphia, PA



Source: Philadelphia Water Department, 2025
Created By: PWD GIS Unit, Feb 25th, 2025

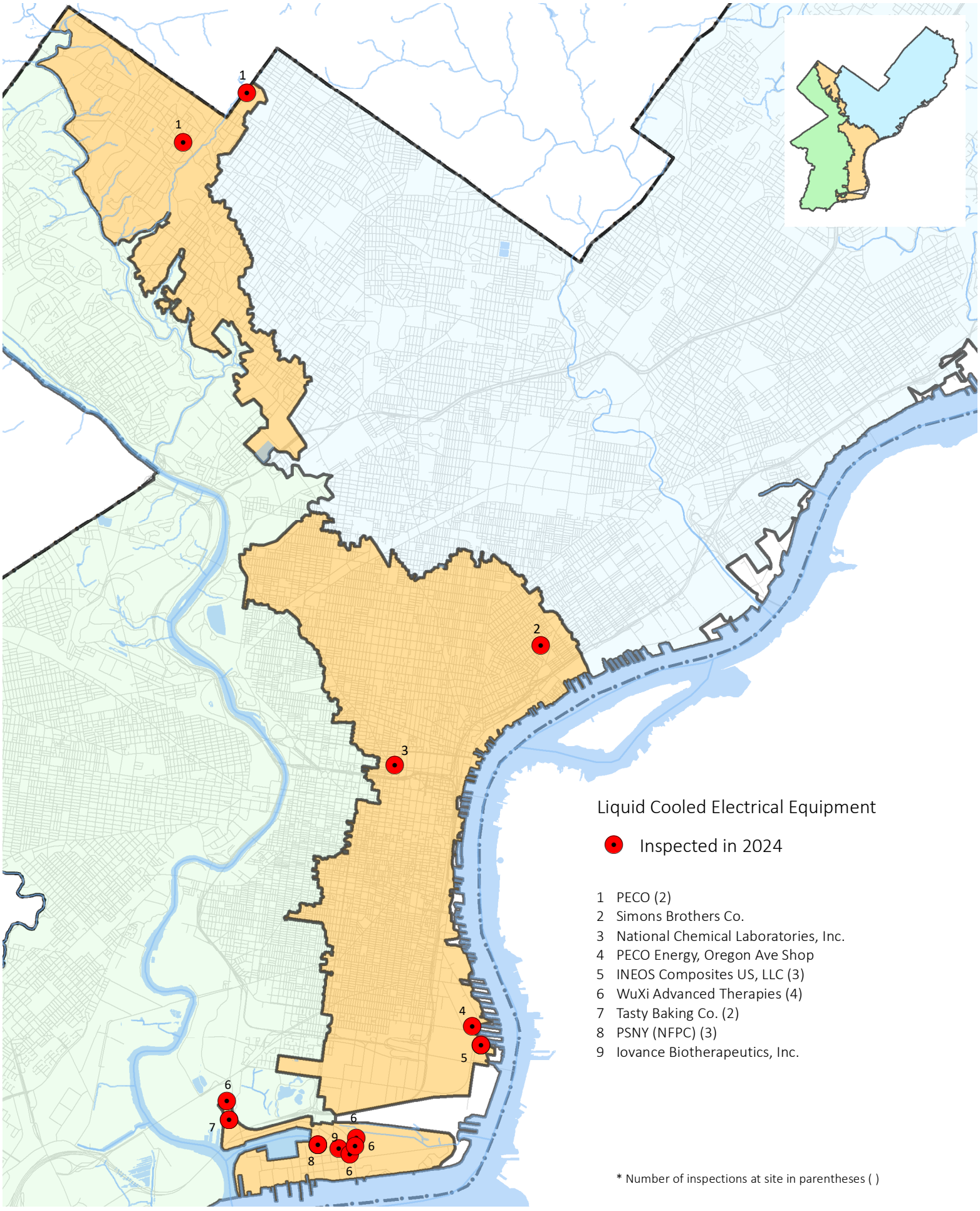



# Liquid Cooled Electrical Equipment Sites Inspected in 2024

## Northeast Treatment Area, Philadelphia, PA



Source: Philadelphia Water Department, 2025
Created By: PWD GIS Unit, Feb 25th, 2025

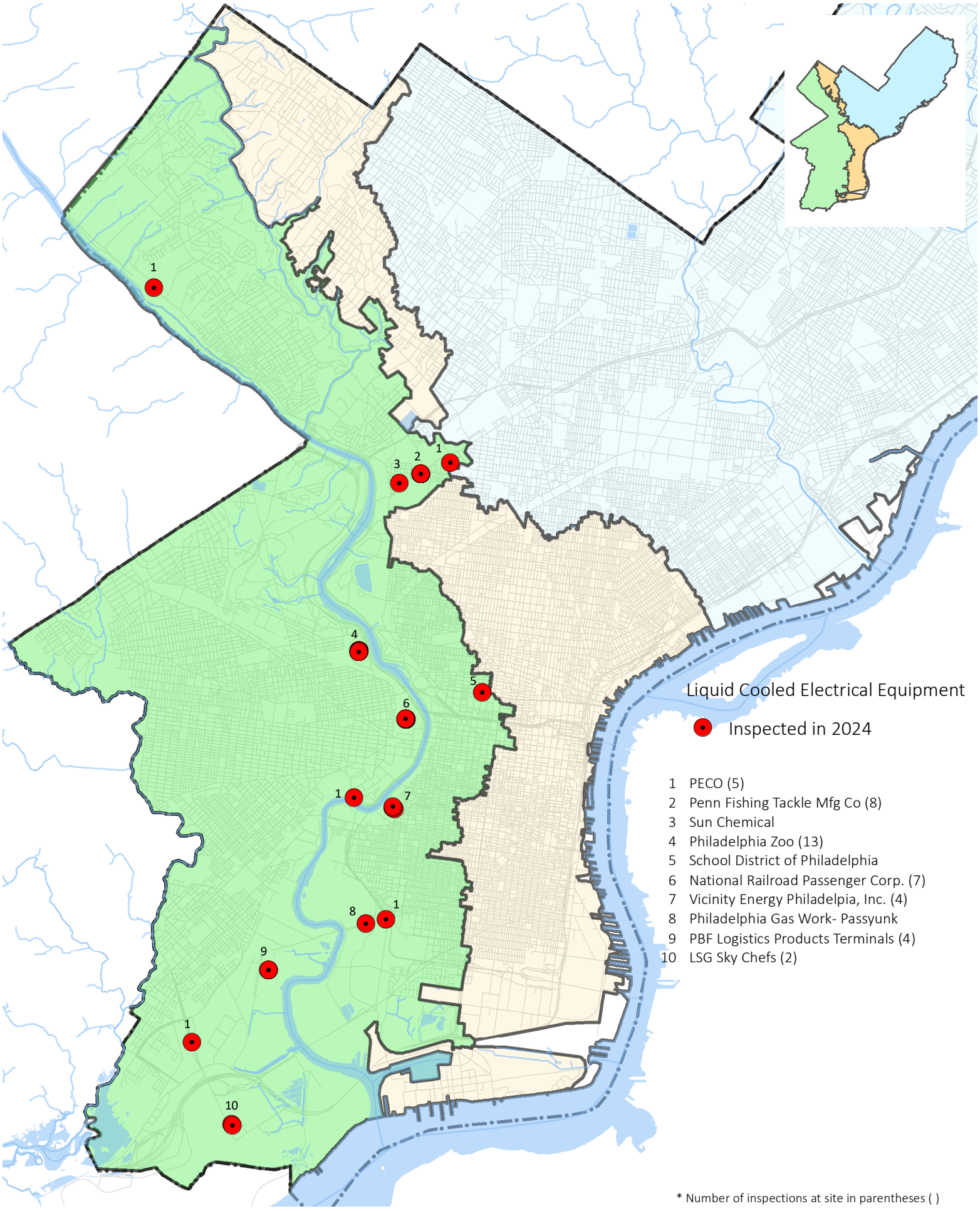



# Liquid Cooled Electrical Equipment Sites Inspected in 2024

## Southeast Treatment Area, Philadelphia, PA



Source: Philadelphia Water Department, 2025
Created By: PWD GIS Unit, Feb 25th, 2025




# Liquid Cooled Electrical Equipment Sites Inspected in 2024

## Southwest Treatment Area, Philadelphia, PA



Source: Philadelphia Water Department, 2025
Created By: PWD GIS Unit, Feb 25th, 2025

# Attachment C

# Township Connection PCB Summary

Table C1: 2024 Township PCB Summary
PCB Homolog Concentration (µg/L)

| Township Location ID | Sample Date | Parameter | Method | "< >" | Data Value | Units | Collection Method | Permittee |
|---|---|---|---|---|---|---|---|---|
| MSH1-Trevose Rd. & Poquessing Creek E side | 11/21/2024 | Decachlorobiphenyls | EPA 680 | < | 0.19 | ug/L | Composite -24hr | Lower Southampton |
| MB1-Totem Rd. & Neshaminy Cr. | 11/19/2024 | Decachlorobiphenyls | EPA 680 | < | 0.2 | ug/L | Composite -24hr | Bucks Co. |
| MSH1-Trevose Rd. & Poquessing Creek E side | 11/21/2024 | Dichlorobiphenyls | EPA 680 | < | 0.019 | ug/L | Composite -24hr | Lower Southampton |
| MB1-Totem Rd. & Neshaminy Cr. | 11/19/2024 | Dichlorobiphenyls | EPA 680 | < | 0.02 | ug/L | Composite -24hr | Bucks Co. |
| MSH1-Trevose Rd. & Poquessing Creek E side | 11/21/2024 | Heptachlorobiphenyls | EPA 680 | < | 0.038 | ug/L | Composite -24hr | Lower Southampton |
| MB1-Totem Rd. & Neshaminy Cr. | 11/19/2024 | Heptachlorobiphenyls | EPA 680 | < | 0.039 | ug/L | Composite -24hr | Bucks Co. |
| MSH1-Trevose Rd. & Poquessing Creek E side | 11/21/2024 | Hexachlorobiphenyls | EPA 680 | < | 0.029 | ug/L | Composite -24hr | Lower Southampton |
| MB1-Totem Rd. & Neshaminy Cr. | 11/19/2024 | Hexachlorobiphenyls | EPA 680 | < | 0.029 | ug/L | Composite -24hr | Bucks Co. |
| MSH1-Trevose Rd. & Poquessing Creek E side | 11/21/2024 | Monochlorobiphenyls | EPA 680 | < | 0.019 | ug/L | Composite -24hr | Lower Southampton |
| MB1-Totem Rd. & Neshaminy Cr. | 11/19/2024 | Monochlorobiphenyls | EPA 680 | < | 0.02 | ug/L | Composite -24hr | Bucks Co. |
| MSH1-Trevose Rd. & Poquessing Creek E side | 11/21/2024 | Nonachlorobiphenyls | EPA 680 | < | 0.19 | ug/L | Composite -24hr | Lower Southampton |
| MB1-Totem Rd. & Neshaminy Cr. | 11/19/2024 | Nonachlorobiphenyls | EPA 680 | < | 0.2 | ug/L | Composite -24hr | Bucks Co. |
| MSH1-Trevose Rd. & Poquessing Creek E side | 11/21/2024 | Octachlorobiphenyls | EPA 680 | < | 0.048 | ug/L | Composite -24hr | Lower Southampton |
| MB1-Totem Rd. & Neshaminy Cr. | 11/19/2024 | Octachlorobiphenyls | EPA 680 | < | 0.049 | ug/L | Composite -24hr | Bucks Co. |
| MSH1-Trevose Rd. & Poquessing Creek E side | 11/21/2024 | Pentachlorobiphenyls | EPA 680 | < | 0.029 | ug/L | Composite -24hr | Lower Southampton |
| MB1-Totem Rd. & Neshaminy Cr. | 11/19/2024 | Pentachlorobiphenyls | EPA 680 | < | 0.029 | ug/L | Composite -24hr | Bucks Co. |
| MSH1-Trevose Rd. & Poquessing Creek E side | 11/21/2024 | Tetrachlorobiphenyls | EPA 680 | < | 0.029 | ug/L | Composite -24hr | Lower Southampton |
| MB1-Totem Rd. & Neshaminy Cr. | 11/19/2024 | Tetrachlorobiphenyls | EPA 680 | < | 0.029 | ug/L | Composite -24hr | Bucks Co. |
| MSH1-Trevose Rd. & Poquessing Creek E side | 11/21/2024 | Trichlorobiphenyls | EPA 680 | < | 0.019 | ug/L | Composite -24hr | Lower Southampton |
| MB1-Totem Rd. & Neshaminy Cr. | 11/19/2024 | Trichlorobiphenyls | EPA 680 | < | 0.02 | ug/L | Composite -24hr | Bucks Co. |

# Appendix F – PWD Quarterly Dry Weather Water Quality Monitoring Program

## Background

In 2009, the Philadelphia Water Department (PWD) initiated a dry weather water quality sampling program designed to work in tandem with the continuous data collection efforts of the PWD/USGS Cooperative Continuous Water Quality Monitoring Program. Grab samples are collected from 10 sites covering all six of Philadelphia County's watersheds on a quarterly basis by the staff of PWD's Bureau of Laboratory Services (BLS). Data collected through this program are most pertinent to Target A (Dry Weather Water Quality & Aesthetics) of PWD's Integrated Watershed Management Plan (IWMP) Strategy, as outlined in the following section.

## The IWMP Target Strategy

IWMPs are designed to meet the goals and objectives of numerous water resources-related regulations and programs. Each IWMP results in a series of implementation recommendations that utilize adaptive management approaches to achieve measurable, watershed-wide benefits. By working with stakeholder groups to prioritize goals and evaluate options, PWD has learned that stakeholder priorities can at times differ from those identified by the data-driven problem identification process. This can present challenges in development and approval of a management alternative for watershed implementation. PWD has developed an approach that addresses what often emerges as a set of high-priority stakeholder concerns while simultaneously addressing the scientifically defined priorities.

By defining three distinct targets to meet the overall plan objectives, priorities identified by stakeholders can be addressed simultaneously with those identified through scientific data. Two of the targets were defined so they could be fully met through implementation of a limited set of options, while the third target would be best addressed through an adaptive management approach. In addition to the three targets, a fourth category has been developed to capture the more programmatic implementation options related to planning, outreach, reporting and continuation of the Watershed Partnership.

Targets are defined here as groups of objectives that each focus on a different problem related to the urban stream system. They can be thought of as different parts of the ultimate goal of fishable and swimmable waters through improved water quality, more natural flow patterns and restored aquatic and riparian habitat. Targets are specifically designed to help focus plan implementation. By defining these targets and designing alternatives and an implementation plan to address the targets simultaneously, the plan will have a greater likelihood of success. It also achieves some of the objectives within a relatively short time frame, providing incentives to the communities and agencies involved in the restoration, as

### 3 Targets of the IWMP

- Aesthetically appealing, accessible streams during dry weather
- Improved stream habitat for fish and macroinvertebrates
- Wet weather water quality that meets fishable and swimmable criteria

well as immediate benefits to the people living in the watershed. PWD's IWMP planning targets are defined below:

## Program Support

A number of implementation options deemed appropriate for a given watershed are "programmatic" in nature. While these options may support achievement of Targets A, B, and/or C, implementation of these options alone would not result in achievement of a particular target. These "Program Support" associated options include items such as monitoring, reporting, feasibility studies, outreach/education, and continuation of the Watershed Partnership.

## Target A: Dry Weather Water Quality and Aesthetics

Streams should be aesthetically appealing (look and smell good), accessible to the public, and an amenity to the community. Target A was defined with a focus on eliminating sources of sewage discharge and other pollution during dry weather, along with trash removal and litter prevention. Access and interaction with the stream during dry weather has the highest priority, because dry weather flows occur about 60-65% of the time during the course of a year. These are also times when the public is most likely to be near or in contact with the stream. In dry weather, stream water quality should be similar to background concentrations in groundwater, particularly with respect to bacteria.

## Target B: Healthy Living Resources

Improvements to the number, health, and diversity of benthic macroinvertebrate and fish species need to focus on habitat improvement and the creation of refuges for organisms to avoid high velocities during storms. Fluvial geomorphological studies, wetland and streambank restoration/creation projects, and stream modeling should be combined with continued biological monitoring to ensure that correct procedures are implemented to increase habitat heterogeneity within the aquatic ecosystem.



**Figure 1**. Eroded stream bank at Poquessing Creek

Improving the ability of an urban stream to support viable habitat and fish populations focuses primarily on the elimination or remediation of the more obvious impacts of urbanization on the stream. These include loss of riparian habitat, eroding and undercut banks, scoured streambed or excessive sediment deposits, channelized and armored stream sections, trash buildup, and invasive species. Thus, the primary tool to accomplish Target B is stream restoration.

## Target C: Wet Weather Water Quality and Quantity

The third target is to restore water quality to meet fishable and swimmable criteria during wet weather. Improving water quality and flow conditions during and after storms is the most difficult target to meet in the urban environment. During wet weather, extreme increases in streamflow are common, accompanied by short-term changes in water quality. Where water quality and quantity problems exist, options may be identified that address both. Any stormwater management practice that increases infiltration or detains flow will help decrease the frequency of damaging floods; however, the size of such structures may need to be increased in areas where flooding is a major concern. (Reductions in the frequency of erosive flows and velocities will also help protect the investment in stream restoration made as part of Target B.)

Target C must be approached somewhat differently from Targets A and B. Full achievement of this target means meeting all water quality standards during wet weather, as well as elimination of flood-related issues. Meeting these goals will be difficult. It will be expensive and requires a long-term effort. A rational approach to achieve this target includes stepped implementation with interim goals for reducing wet weather pollutant loads and stormwater flows, along with monitoring for the efficacy of control measures.

## Monitoring Locations

Water quality samples are taken at 10 USGS gage sites in the USGS/PWD Cooperative Monitoring Program (Figure 2). Site identification codes used by PWD's Bureau of Laboratory Services (BLS) and rivermile-based site ID codes are presented alongside USGS gage station numbers in Table 1. USGS stream gaging stations are ideal monitoring points as they allow discrete sample data to be coupled with continuous discharge data being collected year-round at these sites for loading estimate purposes. Furthermore, grab sample results and field meter readings taken at the time of grab sampling may be invaluable when evaluating continuous water quality data from these USGS gages.

**Table 1.** Monitoring Locations in the PWD/USGS Cooperative Program

| Description | USGS Gage # |
|---|---|
| Cobbs Creek at US Rte. 1 (City Line Ave.) | 01475530 |
| Cobbs Creek at Mt. Moriah Cemetery | 01475548 |
| Schuylkill River at Fairmount Dam | 01474500 |
| Wissahickon Creek at Ft Washington (Rte. 73) | 01473900 |
| Wissahickon Creek at Ridge Ave. | 01474000 |
| Tacony Creek at Castor Ave. | 01467087 |
| Tacony Creek at Adams Ave. | 01467086 |
| Pennypack Creek at Pine Rd. | 01467042 |
| Pennypack Creek at Rhawn St. | 01467048 |
| Poquessing Creek at Grant Ave. | 01465798 |

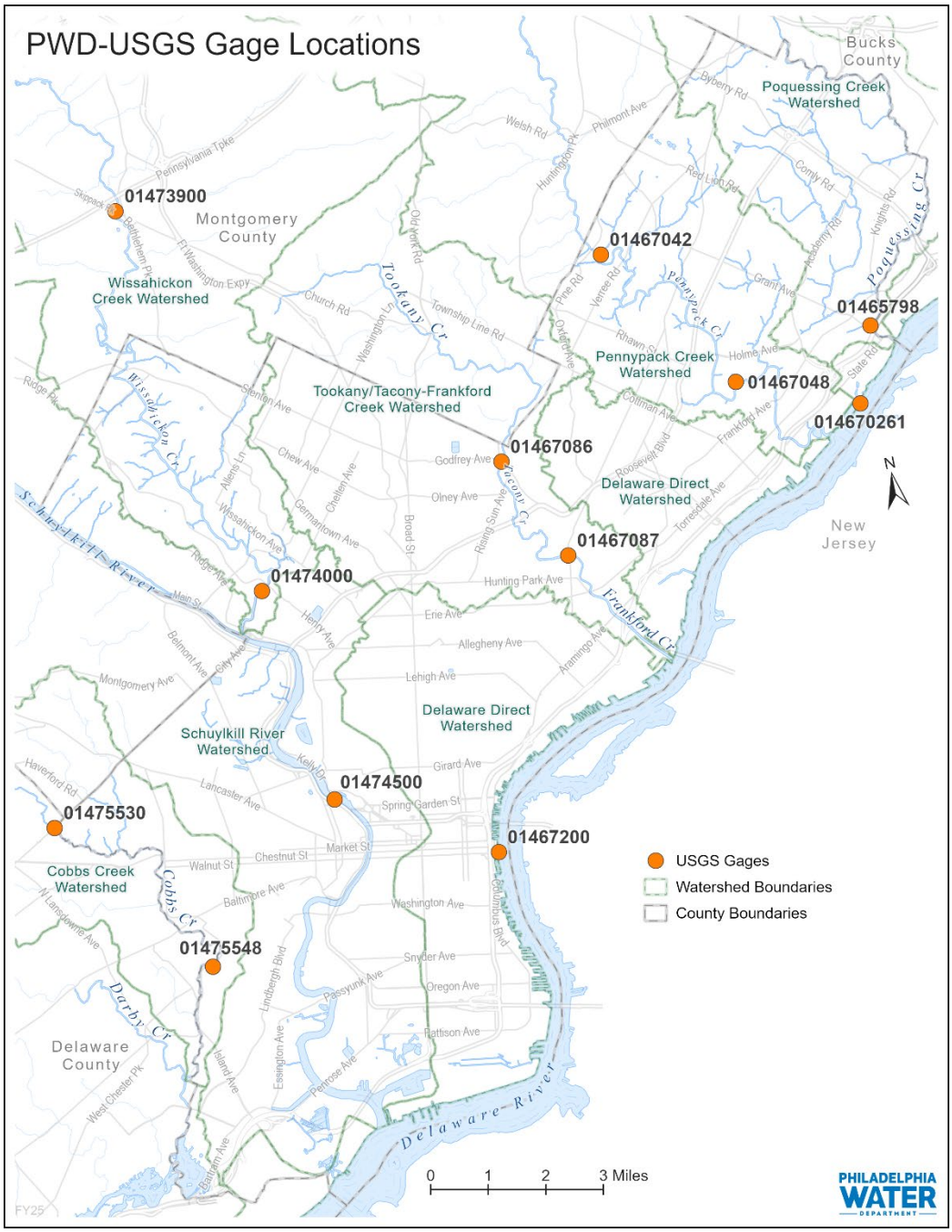



**Figure 2.** Philadelphia Water Quality Gage Stations

# Quarterly Dry Weather Monitoring July 2009 – June 2025

## Sample Collection Dates

This report summarizes cumulative results from 63 sets of quarterly grab samples that were collected from June 2009 through June 2025. Samples were categorized by season (winter, spring, summer, fall) as well as according to PA DEP seasonal recreational use water quality criteria for interpretation of microbial sample results (Non-Swimming season or Swimming season) (Table 2).

**Table 2.** Annual counts of quarterly dry weather sampling events

| Sample Year | # of Annual Sampling events | Recreational Use Season | | Season | | | |
|---|---|---|---|---|---|---|---|
| | | Non-Swimming | Swimming | **Winter** | **Spring** | **Summer** | **Fall** |
| **2009** | 3 | 2 | 1 | 1 | 0 | 1 | 1 |
| **2010** | 4 | 2 | 2 | 1 | 1 | 1 | 1 |
| **2011** | 4 | 2 | 2 | 1 | 1 | 1 | 1 |
| **2012** | 3 | 1 | 2 | 0 | 1 | 1 | 1 |
| **2013** | 4 | 2 | 2 | 1 | 1 | 1 | 1 |
| **2014** | 5 | 3 | 2 | 2 | 1 | 1 | 1 |
| **2015** | 3 | 2 | 1 | 0 | 1 | 1 | 1 |
| **2016** | 4 | 2 | 2 | 1 | 1 | 1 | 1 |
| **2017** | 5 | 2 | 3 | 1 | 1 | 1 | 2 |
| **2018** | 4 | 2 | 2 | 1 | 1 | 1 | 1 |
| **2019** | 4 | 3 | 1 | 1 | 1 | 1 | 1 |
| **2020** | 4 | 3 | 1 | 2 | 0 | 1 | 1 |
| **2021** | 4 | 3 | 1 | 1 | 1 | 1 | 1 |
| **2022** | 2 | 1 | 1 | 0 | 1 | 1 | 0 |
| **2023** | 4 | 2 | 2 | 1 | 1 | 1 | 1 |
| **2024** | 4 | 3 | 1 | 1 | 1 | 1 | 1 |
| **2025** | 2 | 2 | NA | 1 | 1 | NA | NA |
| **Total** | 63 | 37 | 25 | 16 | 15 | 16 | 16 |

## Nutrient Analysis

The macronutrients phosphorus and nitrogen are essential to the growth and overall survival of all plants. However, when occurring in surplus they can be extremely detrimental to aquatic ecosystems, and in turn to the human population that utilizes these water bodies for drinking water and recreational activities such as fishing, boating, and swimming. Elevated nutrient concentrations in rivers and streams can most often be attributed to anthropogenic pollution sources. In these situations, the most common sources of both nutrients are runoff from fertilized lawns/farmland and wastewater discharge.

The most immediate result of excessive nutrient concentrations in any natural water body is excessive plant growth, seen in a variety of growth forms from suspended algae to aquatic macrophytes. As the first step in the process of eutrophication, this unnatural acceleration of aquatic plant growth can start a chain reaction leading to highly adverse effects to that ecosystem. For example, in small shallow streams, unnaturally high densities of algal periphyton can cause pronounced fluctuations in dissolved oxygen and pH and also adversely affect aquatic habitat by forming thick mats of filamentous algae or algal scums on stream substrates. Moreover, alteration of the algal community structure can lead to the proliferation of nuisance taxa, taste and odor problems in the drinking water supply, increased water treatment costs and, in rare cases, production of toxins (*e.g.*, from cyanobacteria blooms). As a result of these direct and indirect responses, streams and rivers can suffer severe impacts to both aquatic biodiversity and human recreational use.

It should be noted that several phosphorus-containing compounds, known as polyphosphates, can be found in the region's waterways, but they are naturally occurring and are present due to the geologic composition of the area. Furthermore, these polyphosphates pose little ecological threat as they are not present in a biologically available form. Only over long periods of time can these compounds be broken down into orthophosphates, which plants and algae can absorb and utilize for growth. Therefore, aside from the relatively minor contributions of the region's geology, the most significant source of orthophosphates in rivers and streams is human-generated pollution. It is for this reason that orthophosphates, along with nitrates, are included as components of this water quality monitoring program. These forms of N and P are readily available to stream producers.

Ammonia, present in surface waters as un-ionized ammonia gas ($NH_3$) or as ammonium ion ($NH_4^+$), is produced by deamination of organic nitrogen-containing compounds such as proteins, and also by hydrolysis of urea. In the presence of oxygen, ammonia is converted to nitrate ($NO_3^-$) by a pair of bacteria-mediated reactions, together known as the process of nitrification. Nitrification occurs quickly in oxygenated waters with sufficient densities of nitrifying bacteria, effectively reducing ammonia concentration, although at the expense of increased $NO_3^-$ concentration. Ammonia is a primary form of nitrogen produced from excretory waste products and other organic material in sewage. Thus, presence of ammonia can be an indicator of sewage pollution. As ammonia is converted to nitrate in oxygenated streams, ammonia is a non-conservative pollution indicator that tends to decrease in concentration with increasing distance from the source of pollution. PA DEP water quality criteria for $NH_3$ reflect the relationship between stream pH, temperature, and ammonia dissociation. Ammonia toxicity is inversely related to hydrogen ion [$H^+$] concentration (*e.g.*, an increase in pH from 7 to 8 increases $NH_3$ toxicity by

approximately an order of magnitude). At pH 9.5 and above, even background concentrations of $NH_3$ may be considered potentially toxic.

Ammonia may be introduced to streams through fertilizers, breakdown of natural organic material, stables and livestock operations, stormwater runoff, and in some cases from more serious anthropogenic sources of untreated sewage such as defective laterals, crossed/illicit connections, and sanitary sewer overflows (SSOs). PWD has established intensive field infrastructure trackdown, infrared photography, sewer camera monitoring, and dye testing programs to identify and correct these problems where and when they occur.

## Nutrient Results

Nutrient data collected thus far at each of the sites are generally consistent with the data collected for Comprehensive Characterization Reports (CCRs) prepared for each of the respective watersheds. Five of 10 sites are not affected by treated wastewater discharges and usually had orthophosphate concentration less than the reporting limit. The reporting limit for the majority of samples was 0.028 mg/L, but limits of 0.1 mg/L, 0.05 mg/L, and 0.09 mg/L were also in effect at various times during the quarterly grab sampling program (Table 3). Conversely, Pennypack and Wissahickon creeks had multiple instances of elevated orthophosphate concentration, which is likely attributable to point source discharge of treated wastewater. Dilution effects were seen between upstream and downstream gages, particularly in the cases of Pennypack and Wissahickon creeks.

Though the Schuylkill River sampling station is downstream from several discharges of treated wastewater, nutrient concentrations are generally smaller than those observed from the Pennypack and Wissahickon creeks, perhaps reflecting the Schuylkill station's much larger overall watershed size and dilution capacity.

**Table 3. Orthophosphate Summary Statistics (Concentrations in mg/L)**

| Gage | Mean | Median | Std. dev. | Min. | Max. | n | n, non-detects | Greater than Ref. Value | Ref. Value Comparison Limited | Evaluation |
|---|---|---|---|---|---|---|---|---|---|---|
| 01465798 | 0.049 | 0.05 | 0.03 | 0.009 | 0.164 | 62 | 41 | 11 | 39 | Needs more evaluation |
| 01467042 | 0.313 | 0.245 | 0.193 | 0.099 | 0.953 | 61 | 0 | 60 | 0 | > Ref. Value |
| 01467048 | 0.222 | 0.176 | 0.146 | 0.053 | 0.852 | 62 | 0 | 62 | 0 | > Ref. Value |
| 01467086 | 0.051 | 0.05 | 0.05 | 0 | 0.363 | 62 | 37 | 10 | 35 | Needs more evaluation |
| 01467087 | 0.056 | 0.05 | 0.035 | 0.006 | 0.201 | 62 | 32 | 19 | 32 | Needs more evaluation |
| 01473900 | 0.318 | 0.271 | 0.156 | 0.05 | 0.739 | 62 | 1 | 61 | 1 | > Ref. Value |
| 01474000 | 0.174 | 0.165 | 0.069 | 0.05 | 0.457 | 62 | 3 | 59 | 3 | > Ref. Value |
| 01474500 | 0.161 | 0.13 | 0.096 | 0.05 | 0.477 | 62 | 5 | 57 | 5 | > Ref. Value |
| 01475530 | 0.049 | 0.05 | 0.03 | 0.007 | 0.165 | 62 | 40 | 12 | 38 | Needs more evaluation |
| 01475548 | 0.051 | 0.05 | 0.034 | 0 | 0.188 | 61 | 39 | 11 | 37 | Needs more evaluation |

Summary statistics for the orthophosphate samples, including results from the application of the PA DEP Chemistry Statistical Assessments protocol (PA DEP, 2007), are shown in Table 3. Samples were evaluated relative to the US EPA (2000) Subecoregion 64 guideline for orthophosphate of 0.02625 mg/L, *i.e.*, the median of the 25th percentile seasonal concentrations. Since the detection limit in past analyses has often been greater than the guideline, many non-detected samples could not be compared to US EPA's reference values ('Ref. Value Comparison Limited). The nonparametric statistical evaluation results show that the locations at Pennypack and Wissahickon creeks, and the Schuylkill River, failed to attain water quality consistent with this guideline. The other locations are classified as needing further evaluation due to the predominance of samples below the detection limit that could not be compared to the reference value. Figure 3 shows the variability of orthophosphate results at each site.

Similar examples of wastewater discharge impacts and upstream/downstream dilution have also begun to emerge with regard to the nitrate data that have been collected. The data seem to indicate a trend toward decreased nitrate concentrations during warmer months, which would correspond to the increased uptake of nutrients by plant life during those growing seasons. The only exceptions are the Pennypack and Wissahickon Creek gage sites, which as previously stated are directly impacted by treated wastewater discharge.

Summary statistics for the nitrate samples, including results from application of the PA DEP Chemistry Statistical Assessment protocol (PA DEP, 2007), are shown in Table 4 and Figure 4. Exceedances were evaluated relative to a) the PA DEP water quality value for nitrite and nitrate of 10 mg/L, and b) the US EPA (2000) subecoregion 64 guideline for nitrite and nitrate of 0.995 mg/L, *i.e.*, the median of the 25th percentile seasonal concentrations. The nonparametric statistical evaluation results show that with respect to the PA DEP value, all locations were in attainment except the upstream Wissahickon gage. Two exceedances have been observed at that site, and more data is needed to make an evaluation. All sites failed to attain water quality consistent with the US EPA subecoregion-based guideline.

Quarterly dry-weather analysis of ammonia began in the fall of 2011. PWD laboratory reporting limits for ammonia fluctuated based on the performance of lab analytical equipment with spiked and blank samples. Ammonia concentration detection limits were 0.5 mg/L for the fall 2011 sample set, and the subsequent sample set results usually had detection limits of 0.1 mg/L or 0.167 mg/L. The downstream Tacony site (01467087) most often exceeded the detection limit, where a maximum concentration of 0.4 mg/L was observed in both fall 2014 and summer 2015. Results are shown in Table 5 and Figure 5.

There were no observed violations of ammonia water quality criteria at any site during this period of dry-weather monitoring. With a majority of the sample results characterized as non-detects due to laboratory reporting limits, ammonia criteria were calculated with corresponding temperature and pH values to determine if possible exceedances existed (i.e., the criteria fell below the detection limit). None of the non-detect samples had the potential to violate water quality criteria.

**Table 4. Nitrate Summary Statistics and Evaluations. Concentrations are in mg/L.**

| Gage | Mean | Median | Std. dev. | Min. | Max. | n | n, non-detects | Greater than PADEP value | Greater than Subecoregion value | PADEP Evaluation | EPA Subecoregion Evaluation |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01465798 | 1.70 | 1.67 | 0.54 | 0.68 | 3.75 | 61 | 0 | 0 | 57 | < Ref. Value | > Ref. Value |
| 01467042 | 4.49 | 4.18 | 0.95 | 2.91 | 7.94 | 58 | 0 | 0 | 57 | < Ref. Value | > Ref. Value |
| 01467048 | 3.62 | 3.50 | 0.95 | 1.21 | 6.33 | 60 | 0 | 0 | 59 | < Ref. Value | > Ref. Value |
| 01467086 | 2.44 | 2.26 | 1.07 | 1.43 | 9.74 | 61 | 0 | 0 | 59 | < Ref. Value | > Ref. Value |
| 01467087 | 1.80 | 1.80 | 0.67 | 0.50 | 3.37 | 61 | 0 | 0 | 52 | < Ref. Value | > Ref. Value |
| 01473900 | 6.14 | 5.91 | 2.08 | 2.69 | 12.04 | 59 | 0 | 4 | 58 | > Ref. Value | > Ref. Value |
| 01474000 | 4.05 | 3.98 | 1.00 | 1.29 | 7.60 | 60 | 0 | 0 | 60 | < Ref. Value | > Ref. Value |
| 01474500 | 3.00 | 2.92 | 0.49 | 2.14 | 4.30 | 61 | 0 | 0 | 61 | < Ref. Value | > Ref. Value |
| 01475530 | 2.94 | 2.95 | 0.43 | 1.87 | 4.45 | 61 | 0 | 0 | 61 | < Ref. Value | > Ref. Value |
| 01475548 | 2.46 | 2.44 | 0.54 | 1.40 | 3.50 | 60 | 0 | 0 | 60 | < Ref. Value | > Ref. Value |

**Table 5. Ammonia Summary Statistics and Evaluations. Concentrations are in mg/L**

| Gage | Mean | Median | Std. dev. | Min. | Max. | n | n, non-detects | Above Ref. Value |
|---|---|---|---|---|---|---|---|---|
| 01465798 | 0.136 | 0.1 | 0.086 | 0.025 | 0.5 | 52 | 41 | 0 |
| 01467042 | 0.145 | 0.1 | 0.107 | 0.022 | 0.557 | 52 | 42 | 0 |
| 01467048 | 0.148 | 0.1 | 0.121 | 0.022 | 0.728 | 52 | 42 | 0 |
| 01467086 | 0.137 | 0.1 | 0.091 | 0.020 | 0.5 | 52 | 44 | 0 |
| 01467087 | 0.171 | 0.167 | 0.101 | 0.028 | 0.5 | 52 | 28 | 0 |
| 01473900 | 0.140 | 0.1 | 0.094 | 0.023 | 0.5 | 52 | 43 | 0 |
| 01474000 | 0.133 | 0.1 | 0.086 | 0.024 | 0.5 | 52 | 46 | 0 |
| 01474500 | 0.149 | 0.1 | 0.095 | 0.026 | 0.5 | 52 | 38 | 0 |
| 01475530 | 0.132 | 0.1 | 0.087 | 0.023 | 0.5 | 52 | 46 | 0 |
| 01475548 | 0.133 | 0.1 | 0.088 | 0.022 | 0.5 | 41 | 42 | 0 |

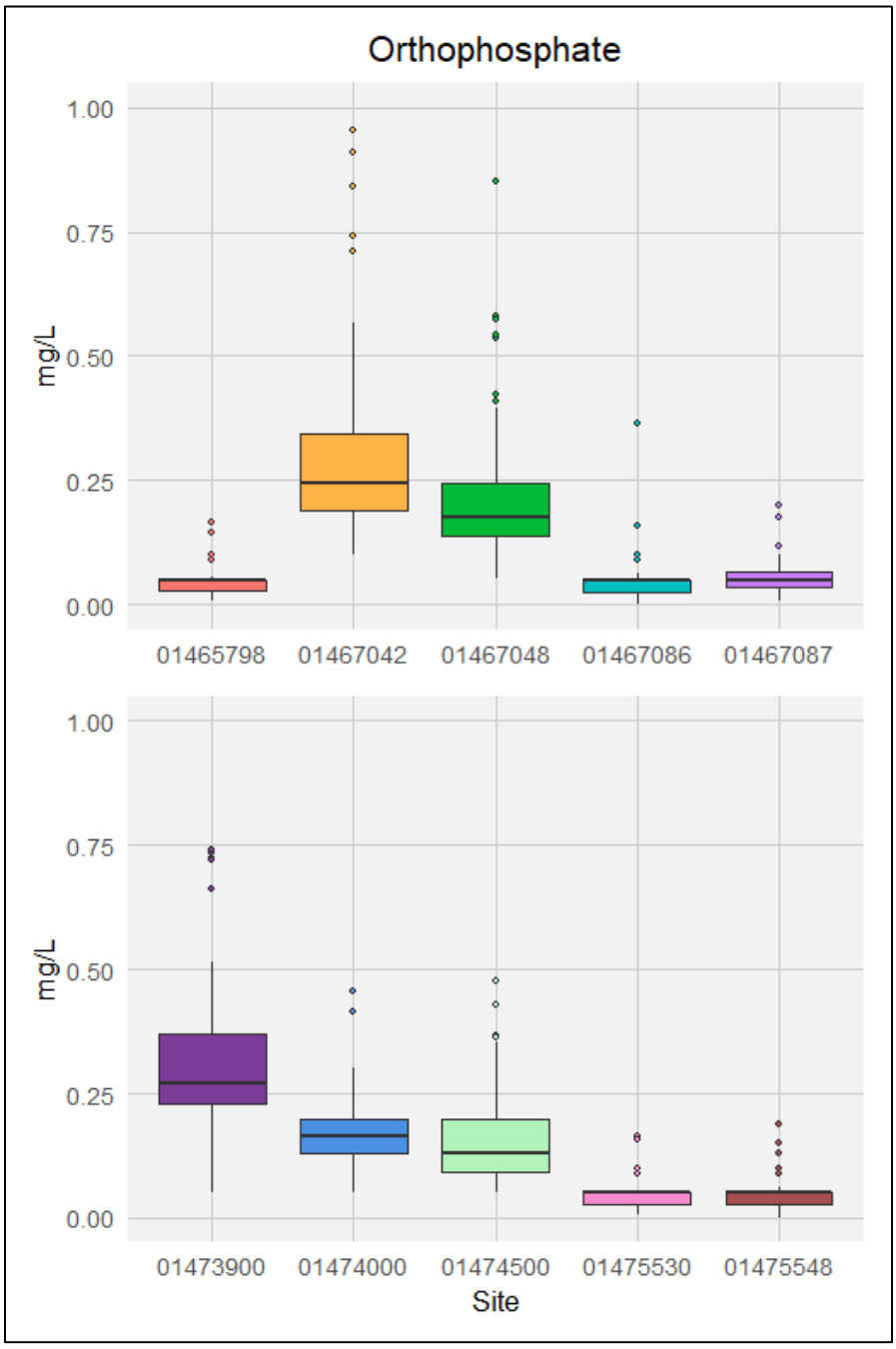



**Figure 1.** Orthophosphate concentration at USGS gage stations, July 2009-June 2025

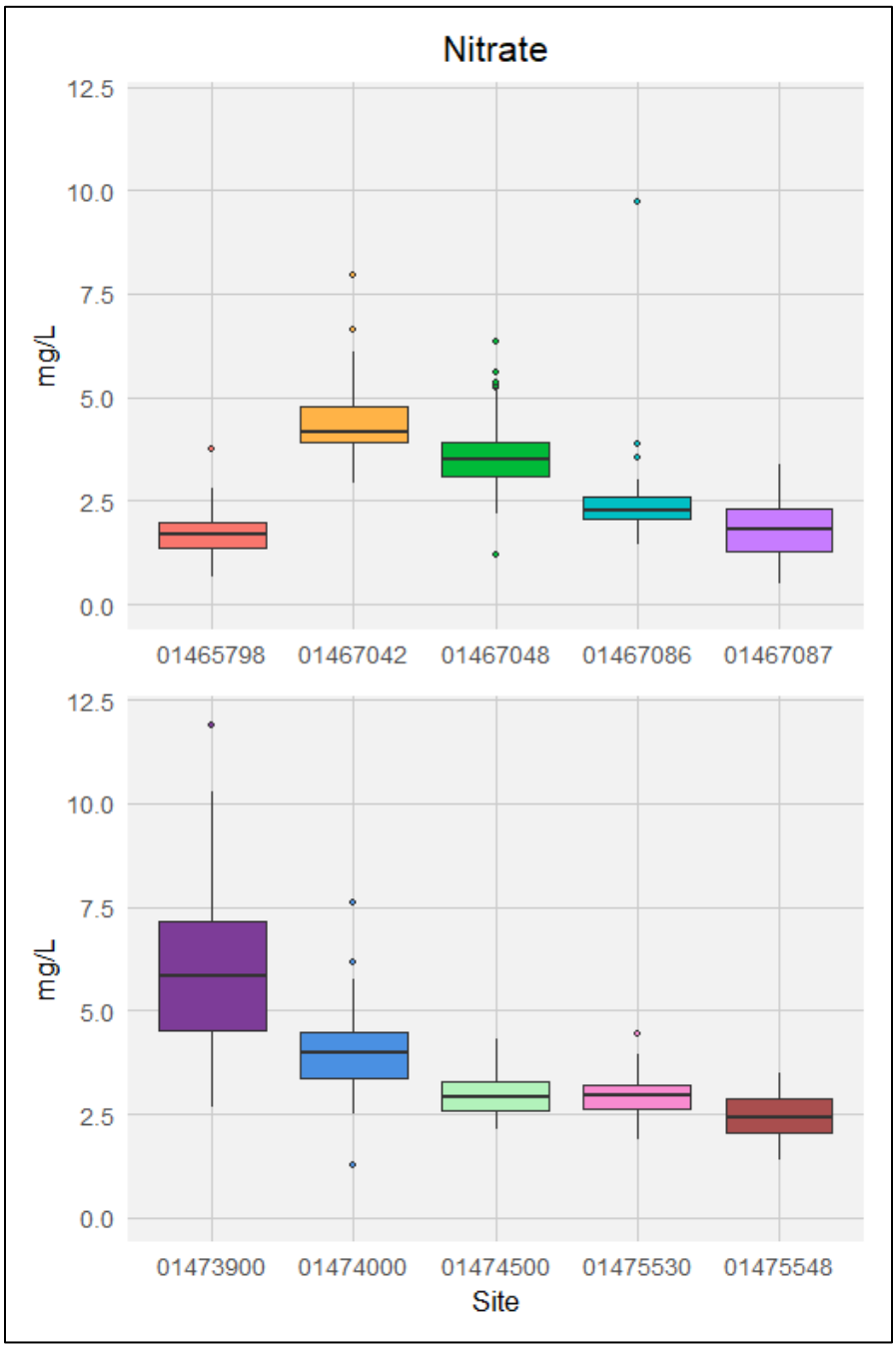



**Figure 4.** Nitrate concentration at USGS gage stations, July 2009-June 2025

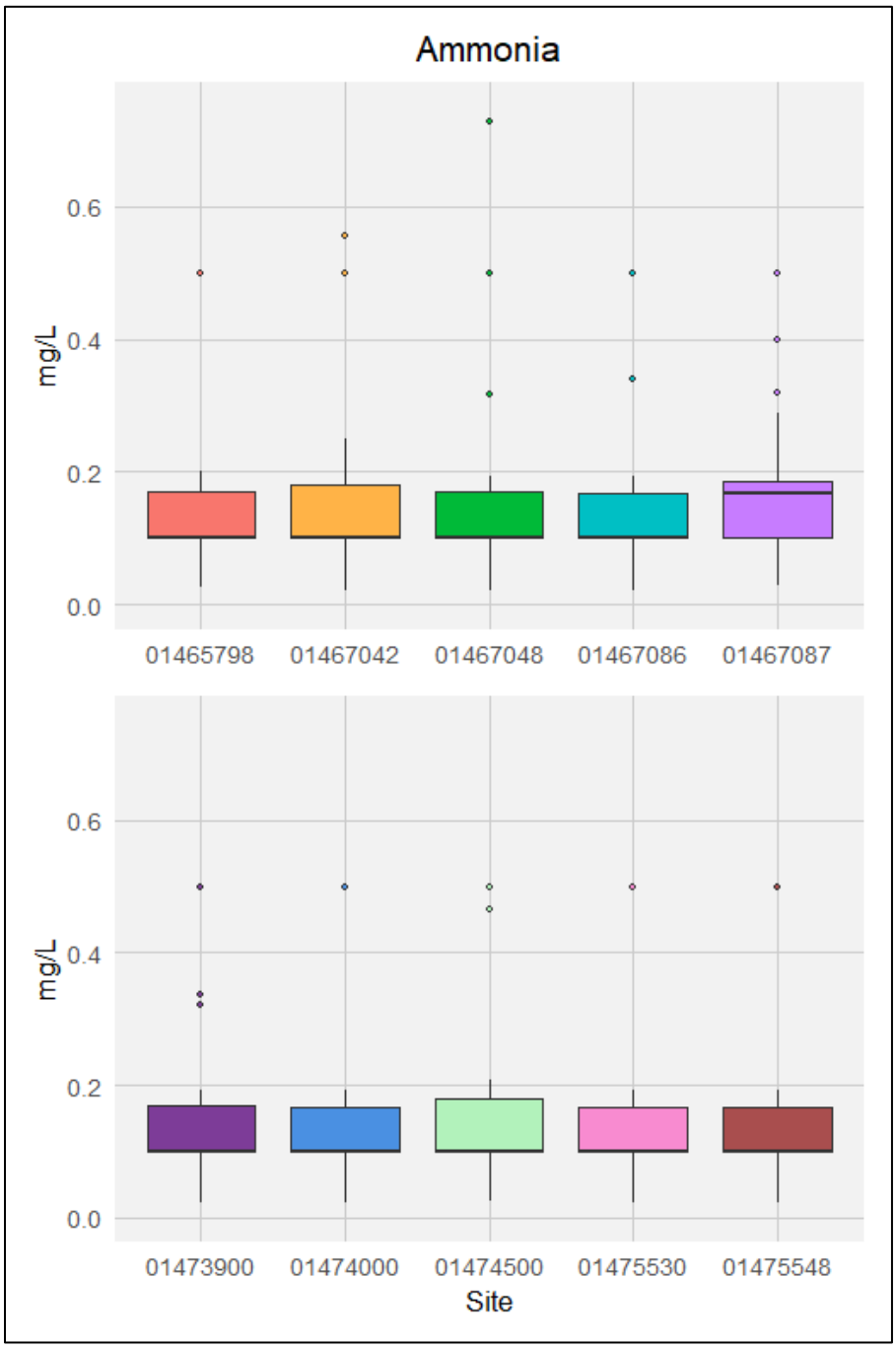



**Figure 5.** Ammonia concentration at USGS gage stations, September 2011-June 2025

## Microbial Analysis

Fecal indicator bacteria, found naturally in the gut of warm-blooded animals, can be used in the detection of human or animal waste contamination in a body of water. While these bacteria themselves are generally harmless to humans, they are considered to be very reliable indicators of the presence of other, more serious fecal-borne pathogens such as viruses, protozoa and other bacteria. The extent to which a water body is contaminated with fecal indicator bacteria can indicate the likelihood that the water has been contaminated by human or animal wastes. In urban environments, the most likely dry weather pollution sources are domestic animals, wildlife and untreated sewage from improperly connected or leaking sanitary sewers.

PWD performs fecal indicator bacteria tests for fecal coliform and *E. coli*. The fecal coliform test covers a relatively wide subgroup of fecal-specific bacteria; however, it does include some species that are not necessarily fecal in origin. *E. coli*, on the other hand, is a single coliform species that is noteworthy due to the fact that it occurs only in the fecal matter of humans and other warm-blooded animals.

## Microbial Analysis Results

PA DEP has established seasonal bacteria water quality criteria that are more stringent in warmer months, or the "swimming season." PWD does not typically collect a sufficient number of *E. coli* samples at USGS gage sites within a 30-day period to assess whether recreational water quality values are attained. PWD's dry weather sampling program is designed to collect representative seasonal samples to monitor dry weather bacteria trends as water pollution control programs are implemented over time. Summary Tables 6-9 present the cumulative geometric mean of quarterly grab samples for the swimming and non-swimming seasons compared to reference values when applicable. Results of microbial analyses from the swimming season samples generally indicate *E. coli* cumulative geometric means greater than 126 CFU/100mL (Table 6). The only exceptions were the downstream Wissahickon Creek and Schuylkill River gage sites, which each had *E. coli* cumulative geometric means less than 126 CFU/100mL. Figures 6-8 show the variability of *E. coli* results at each site.

During the non-swimming season, less stringent water quality criteria based on fecal coliforms apply. The maximum fecal coliform level during the non-swimming season is a geometric mean of 2,000 CFU per 100 mL. Cumulative fecal coliform geometric means for all sampled USGS gage sites were less than the 2000 CFU/100mL reference value during the non-swimming season (Table 9). Figures 9-11 show the variability of fecal coliform results at each site.

**Table 6. Cumulative *E. coli* Geometric Mean Results and PA DEP Swimming Season Water Quality Recreational Use Reference Value**

| Gage | n | n, non-detects | Geometric mean (CFU/100 mL) | Below Ref. Value |
|---|---|---|---|---|
| 01465798 | 25 | 0 | 450 | No |
| 01467042 | 25 | 0 | 321 | No |
| 01467048 | 25 | 0 | 753 | No |
| 01467086 | 25 | 0 | 706 | No |
| 01467087 | 25 | 0 | 513 | No |
| 01473900 | 25 | 0 | 282 | No |
| 01474000 | 25 | 0 | 98 | Yes |
| 01474500 | 25 | 2 | 40 | Yes |
| 01475530 | 25 | 0 | 274 | No |
| 01475548 | 24 | 0 | 610 | No |

**Table 7. Cumulative *E. coli* Geometric Mean Results During Non-Swimming Season**

| Gage | n | n, non-detects | Geometric mean (CFU/100 mL) |
|---|---|---|---|
| 01465798 | 37 | 1 | 261 |
| 01467042 | 37 | 1 | 72 |
| 01467048 | 37 | 0 | 325 |
| 01467086 | 37 | 0 | 269 |
| 01467087 | 36 | 0 | 354 |
| 01473900 | 37 | 0 | 91 |
| 01474000 | 37 | 1 | 56 |
| 01474500 | 37 | 2 | 37 |
| 01475530 | 37 | 1 | 84 |
| 01475548 | 37 | 1 | 226 |

**Table 8. Cumulative Fecal Coliform Geometric Mean Results During Non-Swimming Season**

| Gage | n | n, non-detects | Geometric mean (CFU/100 mL) |
|---|---|---|---|
| 01465798 | 25 | 0 | 464 |
| 01467042 | 25 | 0 | 303 |
| 01467048 | 25 | 1 | 792 |
| 01467086 | 25 | 0 | 905 |
| 01467087 | 25 | 0 | 582 |
| 01473900 | 25 | 0 | 242 |
| 01474000 | 25 | 0 | 108 |
| 01474500 | 25 | 2 | 40 |
| 01475530 | 25 | 0 | 287 |
| 01475548 | 24 | 0 | 750 |

**Table 9. Cumulative Fecal Coliform Geometric Mean Results and PA DEP Non-Swimming Season Water Quality Recreational Use Criteria Reference Value**

| Gage | n | n, non-detects | Geometric mean (CFU/100 mL) | Below Ref. Value |
|---|---|---|---|---|
| 01465798 | 37 | 1 | 187 | Yes |
| 01467042 | 37 | 1 | 62 | Yes |
| 01467048 | 37 | 0 | 254 | Yes |
| 01467086 | 37 | 0 | 210 | Yes |
| 01467087 | 36 | 0 | 316 | Yes |
| 01473900 | 37 | 0 | 76 | Yes |
| 01474000 | 37 | 1 | 50 | Yes |
| 01474500 | 37 | 2 | 30 | Yes |
| 01475530 | 37 | 1 | 73 | Yes |
| 01475548 | 37 | 0 | 177 | Yes |

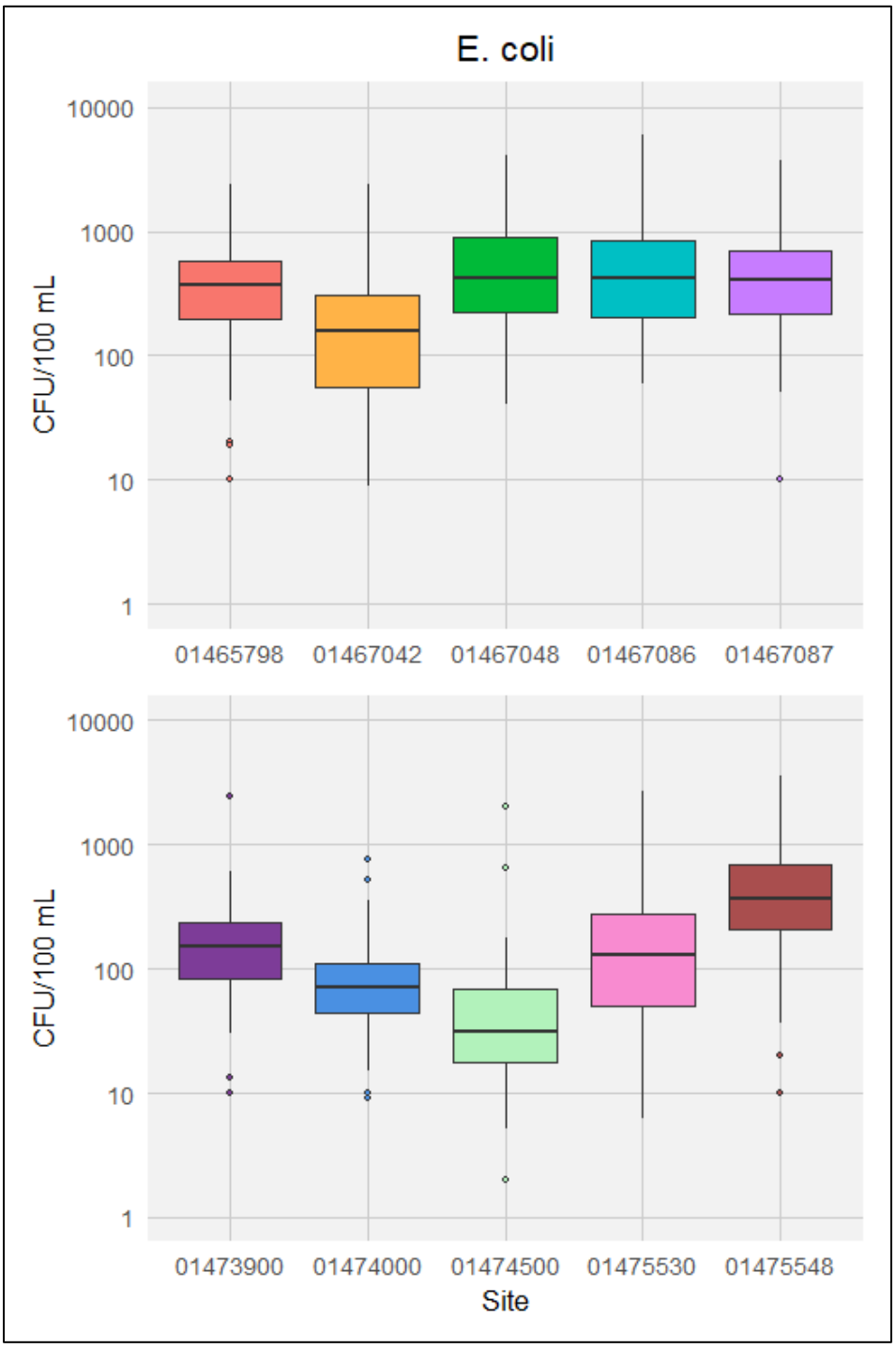



Figure 6. *E. coli* results at USGS gage stations, July 2009-June 2025

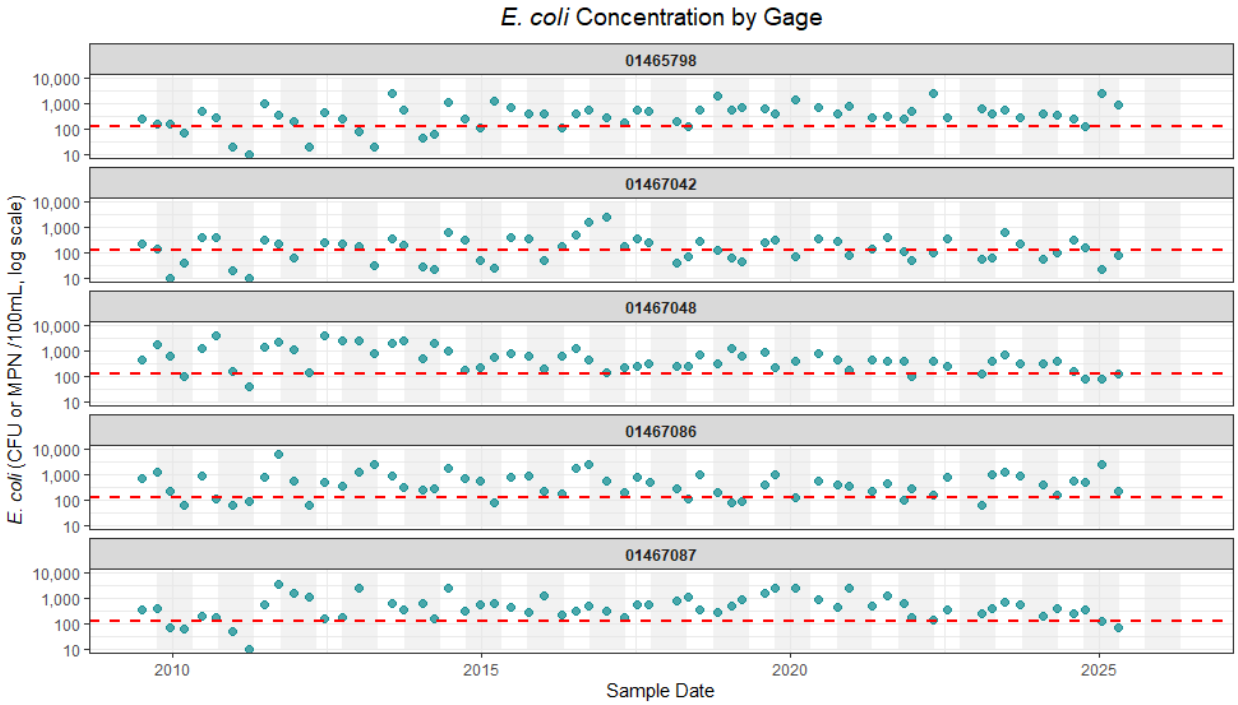



**Figure 7:** *E. coli* concentrations over time at 5 USGS gages. Red dashed line represents the swimming season value of a cumulative geometric mean of 126 CFU/100mL.

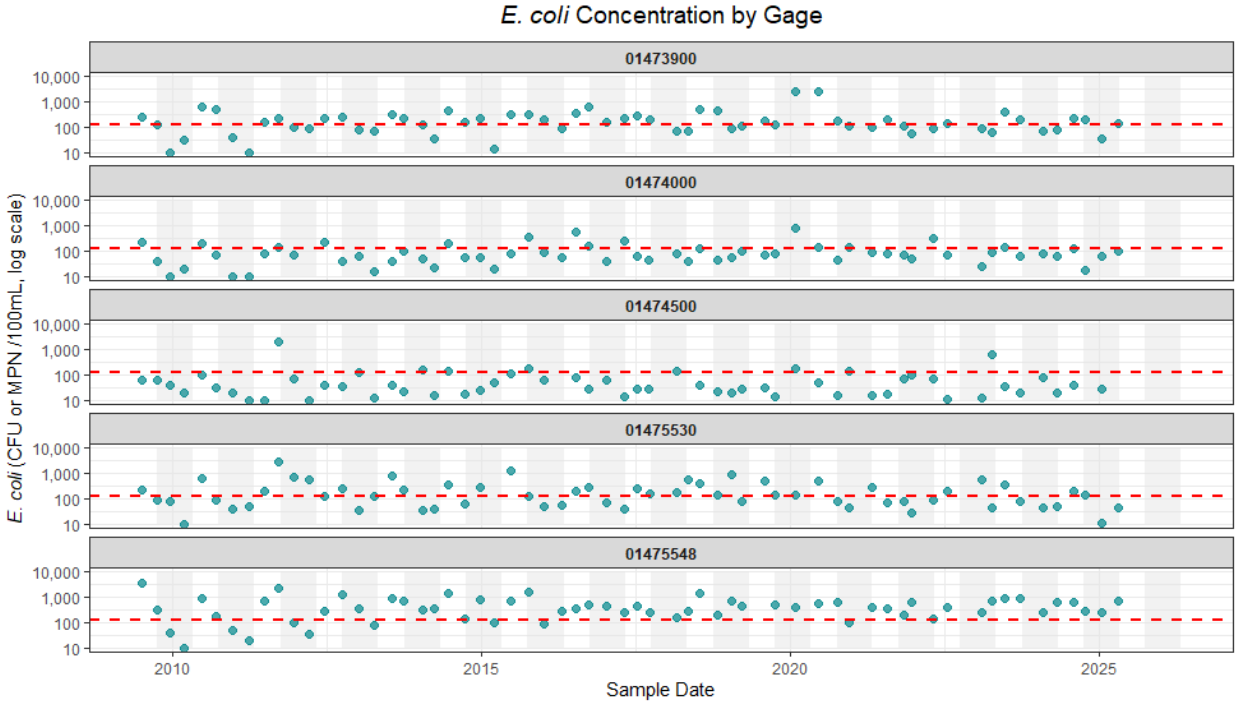



**Figure 8:** *E. coli* concentrations over time at 5 USGS gages. Red dashed line represents the swimming season value of a cumulative geometric mean of 126 CFU/100mL.

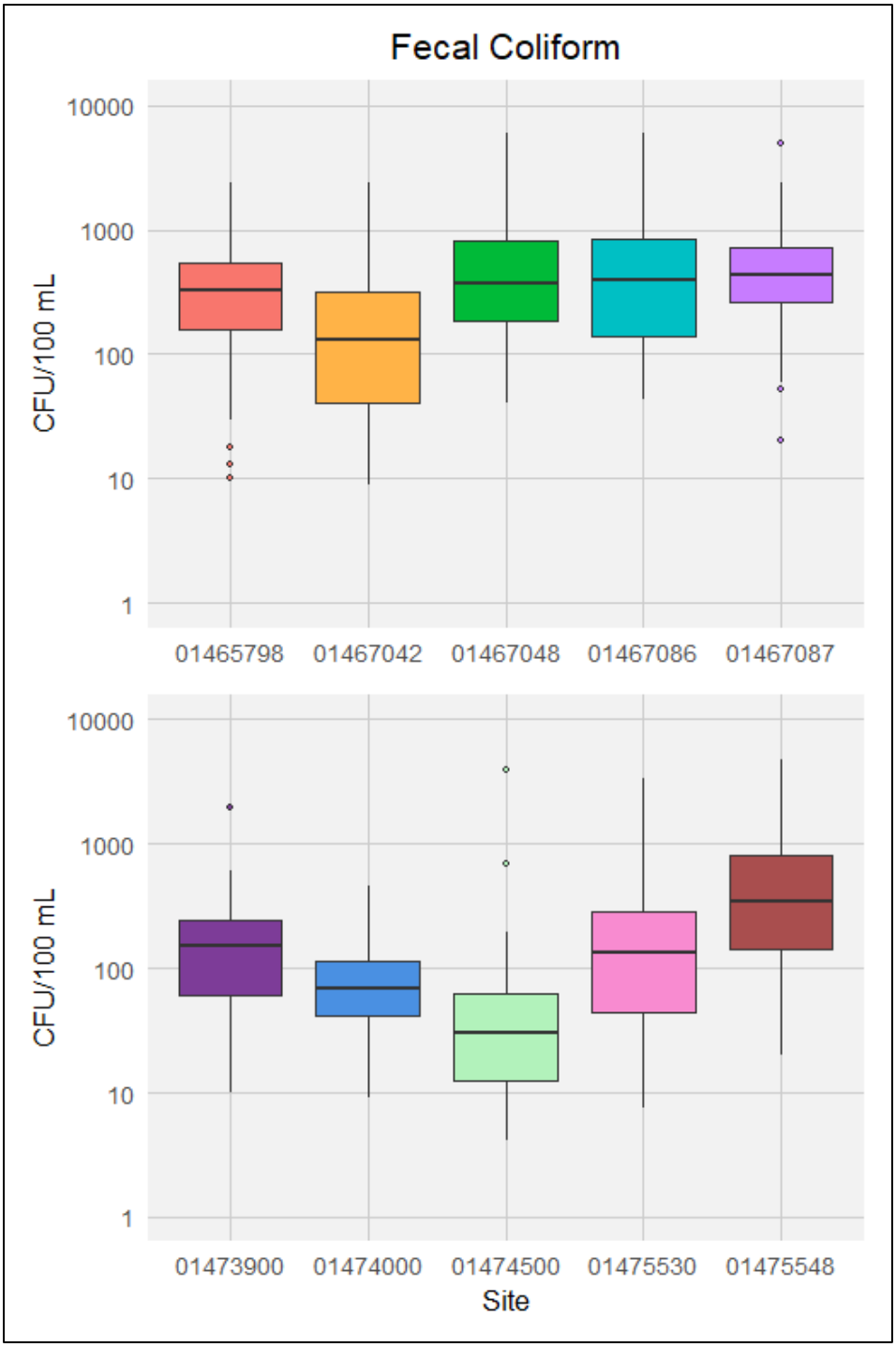



**Figure 9.** Fecal Coliform results at USGS gage stations, July 2009-June 2025

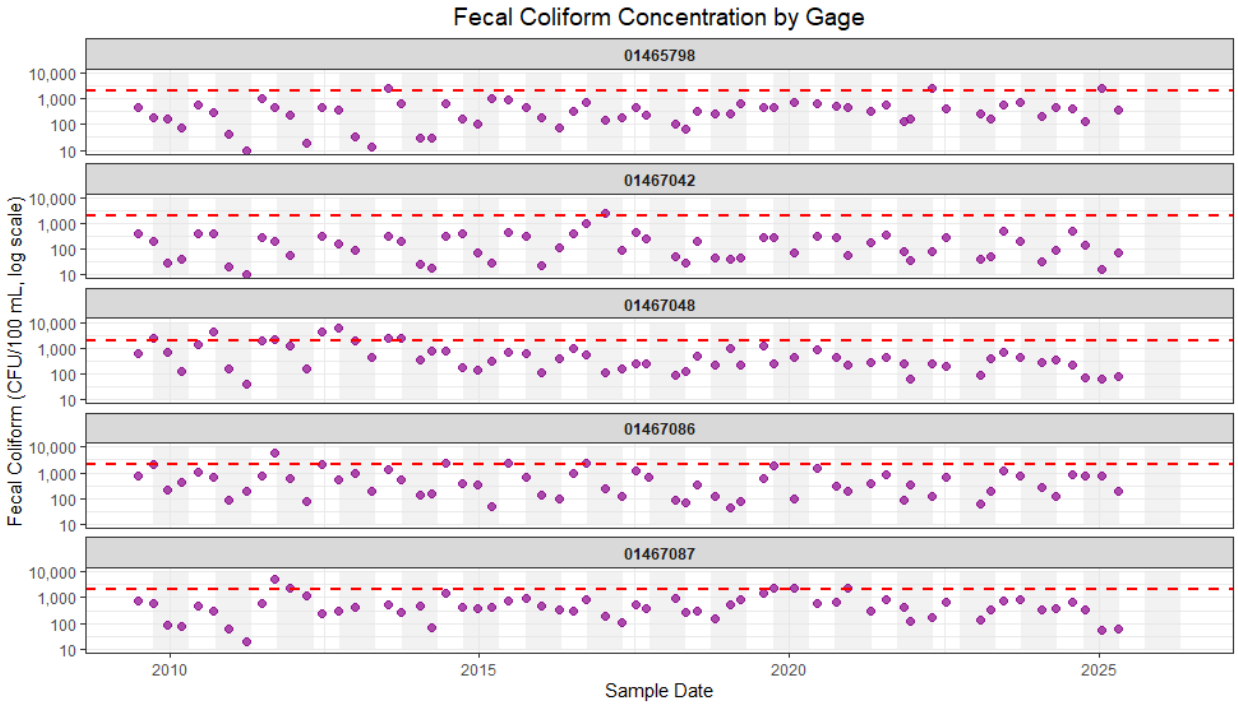



**Figure 10:** Fecal Coliform concentrations over time at 5 USGS gages. Red dashed line represents the non-swimming season value of a cumulative geometric mean of 2,000 CFU/100mL.

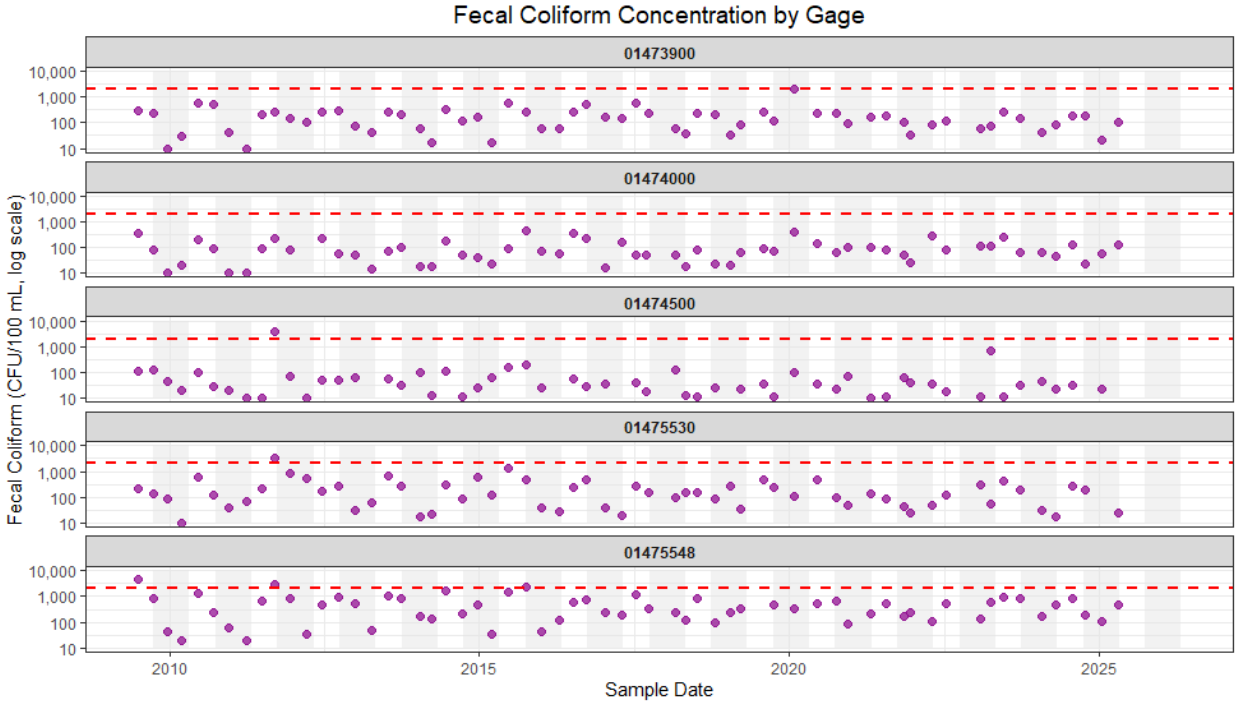



**Figure 11:** Fecal Coliform concentrations over time at 5 USGS gages. Red dashed line represents the non-swimming season value of a cumulative geometric mean of 2,000 CFU/100mL.

## References

Pennsylvania Department of Environmental Protection (PA DEP). (2007). Chemistry Statistical Assessments. Harrisburg, PA. 17 p.

United States Environmental Protection Agency (US EPA). (2000). Ambient Water Quality Criteria Recommendations: Rivers and Streams in Nutrient Ecoregion IX. EPA 822/B/00/019. Office of Water, U.S. Environmental Protection Agency, Washington D.C.

United States Environmental Protection Agency (US EPA). (1986). Quality Criteria for Water. EPA 440/5/86/001. Washington, D.C. 447 p.

# Appendix G – PWD-USGS Cooperative Water Quality Monitoring Program Annual Summary

## Background

PWD and the United States Geological Survey (USGS) have constructed and/or refurbished gaging stations in 10 locations throughout Philadelphia's watersheds. USGS staff is responsible for construction and maintenance of the gage structure, stream stage monitoring instruments, data communications, maintaining and verifying stage-discharge rating curves and pumping apparatus. PWD staff is responsible for installation and maintenance of continuous water quality instrumentation. Data collected through the PWD/USGS cooperative water quality monitoring program are disseminated through the USGS National Water Information System (NWIS) Web Interface, as well as a website specifically dedicated to Philadelphia's watersheds (https://www.usgs.gov/centers/pennsylvania-water-science-center/science/philadelphia-water-resources-monitoring-program). The locations of the PWD/USGS cooperative gage stations are shown in the map on page 2 (Figure 1).

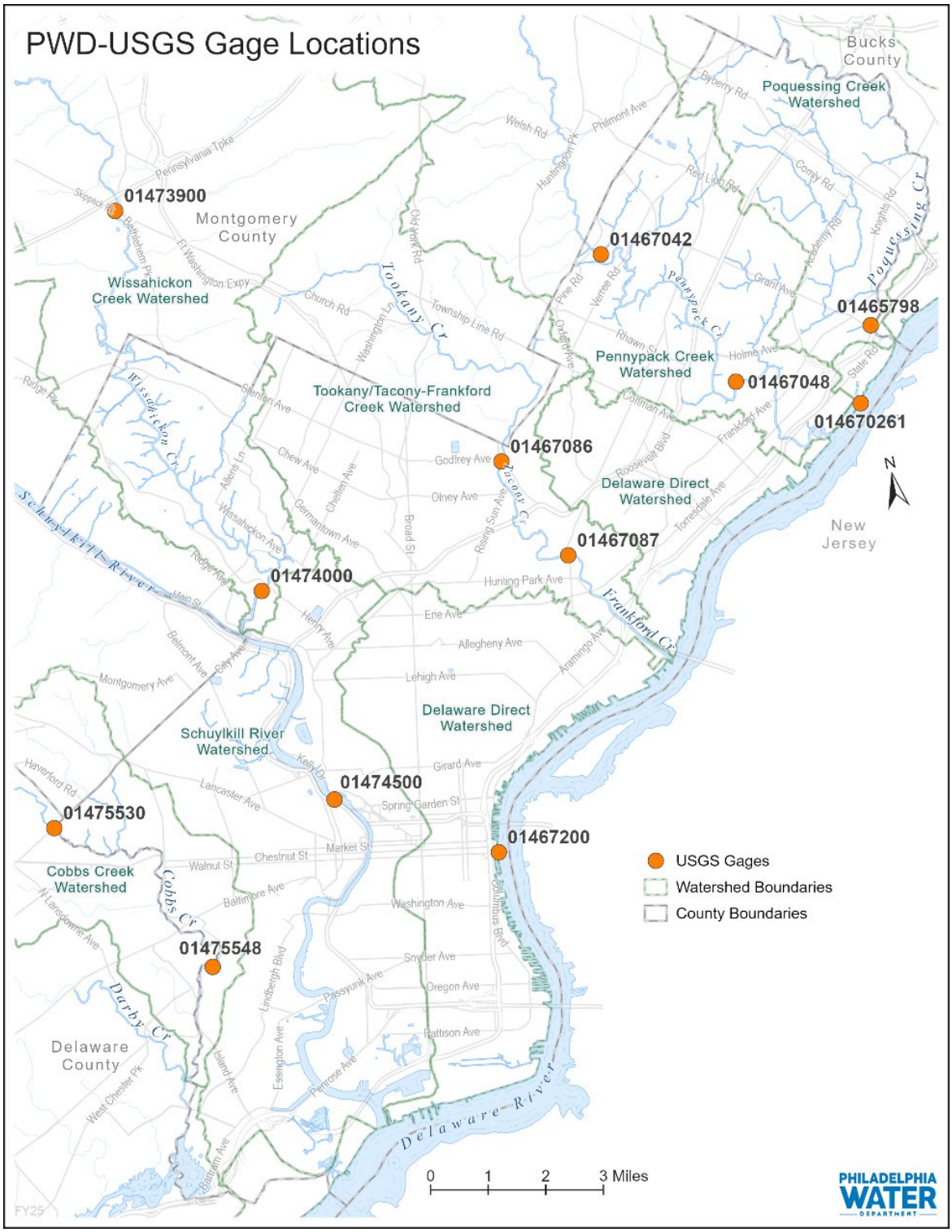



**Figure 1:** Philadelphia Water Quality Gage Stations.

## Monitoring Locations

The PWD/USGS Cooperative Monitoring Program builds upon the widespread network of USGS gages that were formerly operated throughout Philadelphia. These gages are logically situated and/or have a continuous period of record, making them ideal for water quality monitoring purposes. Within a given watershed, downstream-most historic stations were chosen to represent water quality, as these streams flow through Philadelphia into the receiving waters (*i.e.*, the Schuylkill and Delaware rivers).

Regarding upstream stations, three gages (Pennypack Creek at Pine Rd, Tacony Creek at Adams Ave, and Cobbs Creek at US Rte. 1) are strategically located to monitor water quality of the streams as they enter Philadelphia (Figure 1). The upstream Wissahickon Creek monitoring station is located at Rte. 73 in Fort Washington, which is approximately 3.7 river miles upstream of the City. This location was chosen due to its extensive period of record (Table 1). Upstream water quality is not measured in the Poquessing-Byberry Creek Watershed. The Schuylkill River gage is in an ideal location to provide data related to the Schuylkill River Fairmount Dam Fish Ladder Renovation Project and was equipped with water quality monitoring instrumentation upon project completion in early 2009. In December 2020, the Delaware River gage at the Ben Franklin Bridge was relocated to a nearby downstream site at Penn's Landing.

This annual report summarizes water quality data from July 1, 2024 – June 30, 2025, excluding the period of December 2024 through February 2025 for most gages, during which time monitoring probes were not deployed in order to protect the equipment from cold temperatures. Water quality data at the Delaware River gages 01467200 and 014670261 were collected year-round. Due to routine maintenance such as cleaning and calibration, gages are periodically taken offline, usually for no more than the span of two hours, and do not collect data. Significant gaps in data collection due to gage malfunction, repair, vandalism, etc. are noted in the Monthly Results section.

In order to summarize hydrologic conditions during the monitoring period, daily mean discharge was plotted along with the median of all daily flows for USGS gage 01474000 (Wissahickon Creek at Mouth.). The period of record for this gage is 60 years; approved daily mean discharge data for this gage was only available through March 31, 2025 at the time of this writing. The influence of storms can be observed as peaks in streamflow in Figure 2.

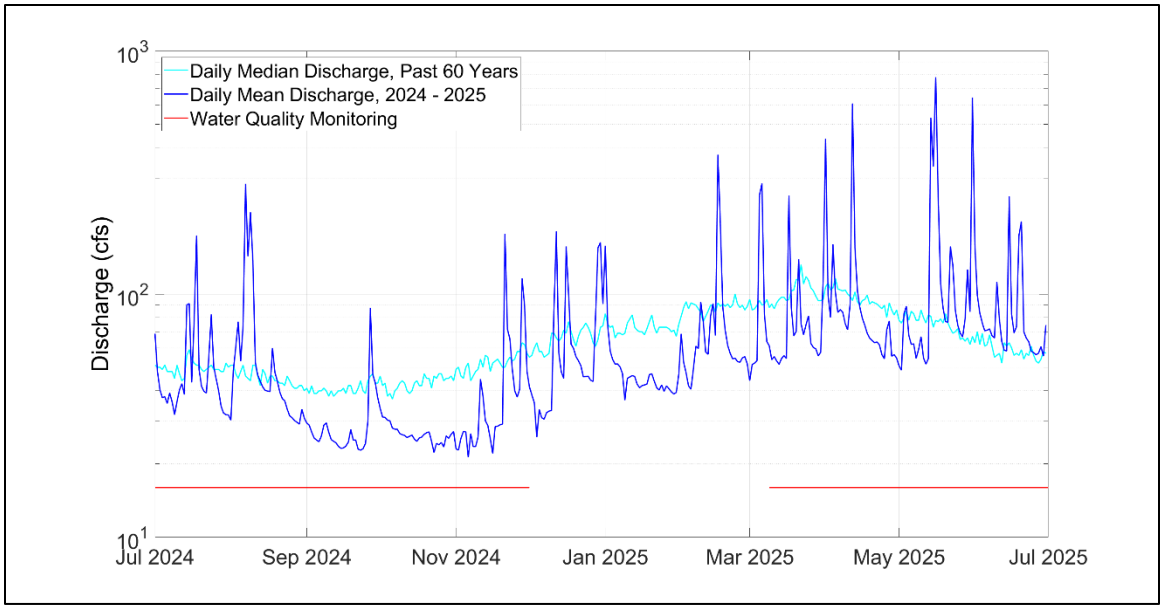



**Figure 2.** Daily mean flow July 1, 2024 – June 30, 2025 and daily median flow for 60 years of record at USGS gage 01474000 (Wissahickon Creek at Mouth).

**Table 1.** PWD/USGS Cooperative Water Quality Monitoring Program Gages

| Gage Number | Gage name | Flow Data Record |
|---|---|---|
| 01465798 | Poquessing Creek at Grant Avenue, Philadelphia, PA | July 1965 to Present |
| 01467042 | Pennypack Creek at Pine Road, Philadelphia, PA | August 1964 to September 1974; September 2007 to Present |
| 01467048 | Pennypack Creek at Lower Rhawn St Br., Philadelphia, PA | June 1965 to Present |
| 01467086 | Tacony Creek at County Line, Philadelphia, PA | October 1965 to September 1986; September 2005 to Present |
| 01467087 | Frankford Creek at Castor Ave, Philadelphia, PA | July 1982 to Present |
| 014670261 | Delaware River near Pennypack Woods, PA | February 2011 to Present |
| 01467200* | Delaware River at Ben Franklin Bridge/Penn's Landing, Philadelphia, PA | August 1949 to Present |
| 01473900** | Wissahickon Creek at Ft. Washington, PA | September 1961 to September 1968; June 2000 to Present |
| 01474000 | Wissahickon Creek at Mouth, Philadelphia, PA | June 1897 to September 1903; January 1905 to July 1906; October 1965 to Present |
| 01474500 | Schuylkill River at Philadelphia, PA | October 1931 to Present |
| 01475530 | Cobbs Creek at U.S. Highway No. 1, Philadelphia, PA | October 1964 to September 1981; September 2004 to Present |
| 01475548 | Cobbs Creek at Mt. Moriah Cemetery, Philadelphia, PA | October 2005 to Present |

*Funding for the operation of this gage is provided by USGS and the Delaware River Basin Commission (DRBC)
**Funding for the operation of this gage is provided by DRBC

## USGS Gage Data Processing & Analysis Procedures

With 10 USGS gages collecting data for multiple water quality parameters at half-hour or 15-minute intervals, a large amount of data are produced. PWD Office of Watersheds (OOW) staff have developed procedures for the processing and analysis of these data using Microsoft Excel software, as well as MATLAB and R, statistical programming languages used for data analysis, cleaning, and visualization. Most aspects of the data processing and analysis have been automated with custom MATLAB and R code.

OOW independently maintains databases of water quality and streamflow via automated regular retrievals of these data from USGS NWIS. On a monthly basis, the databases are queried and results for each gage are imported into MS Excel workbooks. If available, any field data collected during that period (*e.g.*, hand meter readings from field maintenance checks, water quality grab samples, etc.) are also imported. Once all required data have been entered, separate plots are produced for each parameter (dissolved oxygen, turbidity, pH, specific conductance, and temperature) to enable a subjective review of data quality.

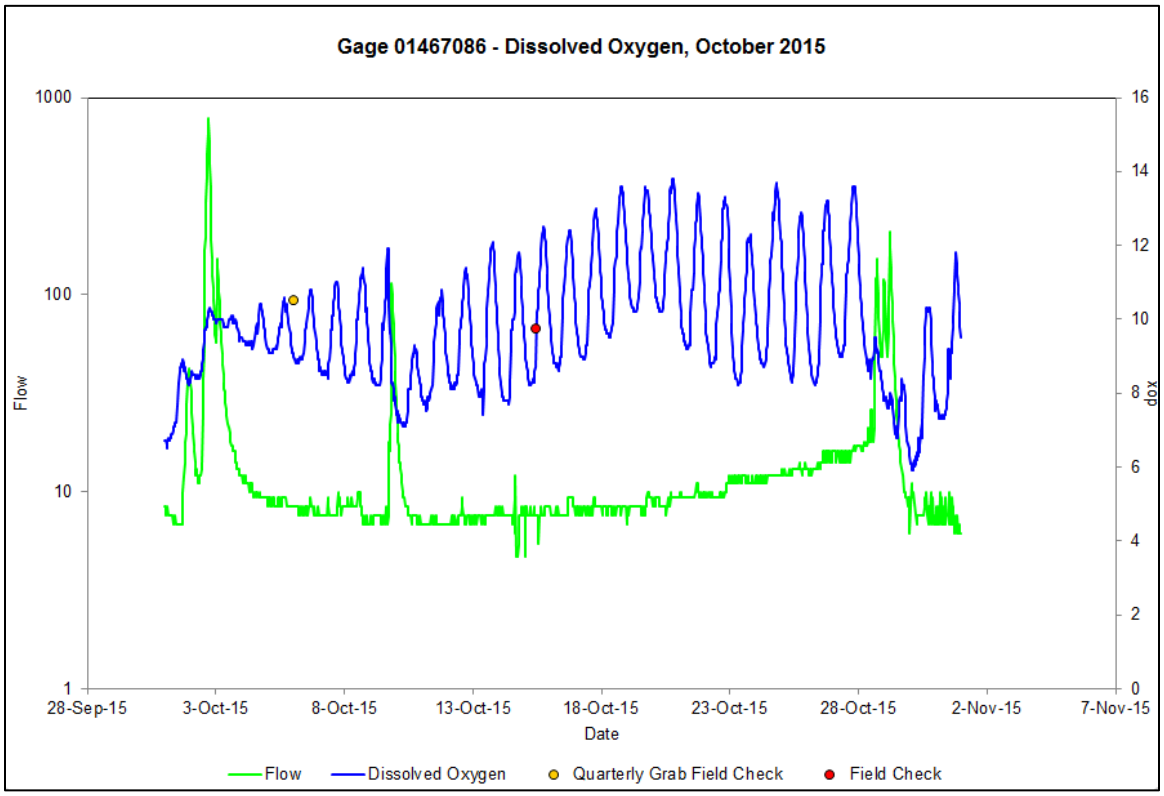



**Figure 3.** Example of an Excel-generated data processing/analysis plot; Gage 01467086, Dissolved Oxygen, October 2015.

These plots are examined and are the primary basis for the selection of good vs. questionable data for a given month. Intervals of questionable data are located and added to a table of "flagged" data for that particular parameter, which is then used to update the water quality database. Logs of field meter readings taken by PWD staff inform the flagging process, along with email records containing field notes and observations whenever water quality instrumentation is cleaned, calibrated, or otherwise maintained.

The final step of the procedure utilizes MATLAB and R. The MATLAB and R software code developed by OOW staff analyzes all water quality data contained within a database, as well as good and questionable data flags, and generates statistical and graphic results in a variety of forms. These include monthly plots for all data parameters for each site, showing accepted and questionable data, water quality criteria, grab sample data, and streamflow (Figure 4); assorted statistics including accepted and questionable data comparisons, monthly attainment percentages, and comparisons of wet and dry weather periods; and additional plots, including average dissolved oxygen (DO), percent DO saturation, and pH/percent DO saturation.

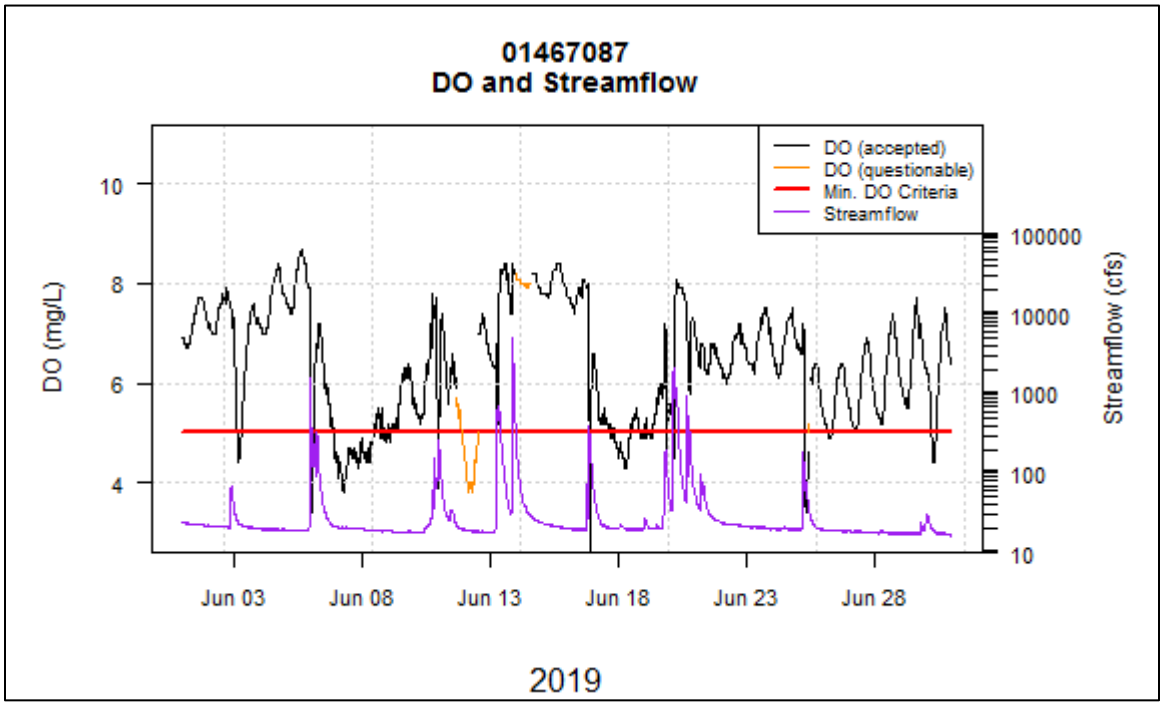



**Figure 4.** Example of an R-generated plot showing accepted and questionable data, and minimum water quality criteria; Gage 01467087, Dissolved Oxygen, June 2019.

# Continuous Water Quality Monitoring Results Annual Summary, July 2024 - June 2025

## Dissolved Oxygen

### Background

Dissolved oxygen concentrations are a concern in several of Philadelphia's watersheds. Dissolved oxygen concentration is suppressed by high temperatures, respiratory activity of stream organisms, and nitrification and other oxidation reactions. Streams generally develop problems with dissolved oxygen due to water column biochemical oxygen demand (BOD), sediment oxygen demand (SOD) and eutrophication due to increased nutrient concentration. These processes are inter-related, and physical conditions can also affect dissolved oxygen concentrations.

### Designated Uses

Streams in the Philadelphia region are affected by ambient temperatures, which can be quite warm in the spring and summer months. For this reason, these streams cannot support natural self-sustaining populations of cold water fish. Different water quality criteria for dissolved oxygen and temperature are applied to different stream segments. Of the sites that were instrumented for water quality, the Wissahickon and Pennypack Creek gages (*i.e.*, 01473900, 01474000, 01467042, and 01467048) are each designated as a Trout Stocking Fishery (TSF) with conditions appropriate for maintenance of stocked trout over the period February 15 to July 31. Water quality criteria for dissolved oxygen are more stringent for these sites, with a daily instantaneous minimum criterion of 5 mg/L and a 7-day average of 6 mg/L from February 15 to July 31 and 5.5 mg/L the remainder of the year. Dissolved oxygen criteria for Warm Water Fisheries (WWF) are an instantaneous minimum of 5 mg/L and a 7-day average of 5.5 mg/L.

The Delaware River gage 01467200 dissolved oxygen criteria are defined by the Delaware River Basin Commission (DRBC) criteria for Zone 3 (DRBC, 2007) with a daily mean of 3.5 mg/L and a seasonal mean (April 1 to June 15, and September 16 to December 31) of 6.5 mg/L. The same seasonal criteria apply to Delaware River gage 014670261 (Zone 2), but there is a more stringent daily mean guideline of 5.0 mg/L (Table 2).

**Table 2.** PADEP Dissolved Oxygen Water Quality Criteria

| Gage number | Designated Use | Minimum Criterion | 7-Day Average Criterion | Daily Average Criterion |
|---|---|---|---|---|
| 01465798 | WWF | 5.0 mg/L | 5.5 mg/L | None |
| 014670261 | DRBC** | None | None | 5.0 mg/L |
| 01467042 | TSF* | 5.0 mg/L | 6.0 mg/L | None |
| 01467048 | TSF* | 5.0 mg/L | 6.0 mg/L | None |
| 01467086 | WWF | 5.0 mg/L | 5.5 mg/L | None |
| 01467087 | WWF | 5.0 mg/L | 5.5 mg/L | None |
| 01467200 | DRBC** | None | None | 3.5 mg/L |
| 01473900 | TSF* | 5.0 mg/L | 6.0 mg/L | None |
| 01474000 | TSF* | 5.0 mg/L | 6.0 mg/L | None |
| 01474500 | WWF | 5.0 mg/L | 5.5 mg/L | None |
| 01475530 | WWF | 5.0 mg/L | 5.5 mg/L | None |
| 01475548 | WWF | 5.0 mg/L | 5.5 mg/L | None |

* TSF criteria for DO only apply from February 15 - July 31. WWF criteria are applicable from August 1 – January 31.
** A seasonal mean criterion of 6.5 mg/L also applies from April 1 - June 15 and September 16 - December 31.

## Results

Results were processed as follows for Table 3. The "percent accepted data" are the total number of observations that were not flagged. The remainder of the table lists the percent of data that was flagged, and the percentages of accepted data that attained or failed to attain water quality standards were calculated.

Results were processed as follows for Tables 4 and 5. If more than 25% of the data in the 7-day window was flagged as questionable, the data point was considered questionable. The 7-day average was calculated as a two-sided moving average. During data processing and analysis, output files are split by calendar year; thus, statistics for 2024 and 2025 appear in separate tables.

Water quality at the downstream Tacony Creek site (gage 01467087) was most likely to exceed DO minimum and 7-day average criteria. A more in-depth discussion of potential causes of DO problems at gage 01467087 is presented in the Monthly Results section. A notable portion of flagged data at 01467087 and other sites is related to the fouling of sonde pipes due to sediment and debris that inhibit data collection. The DO probes are particularly susceptible to the effects of trapped sediment; when routine cleaning of the sonde pipes show that low DO readings were affected by fouling, the questionable data prior to cleaning is flagged.

**Table 3.** USGS Gage July 2024 - June 2025 Dissolved Oxygen Minimum Criterion Summary Results

| Gage number | Designated Use | Observations, n | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|
| 01465798 | WWF | 25444 | 98.8 | 1.2 | 4.5 | 95.5 |
| 014670261* | DRBC | 33296 | 100 | 0 | NA | NA |
| 01467042 | TSF | 25299 | 98.8 | 1.2 | 0.6 | 99.4 |
| 01467048 | TSF | 25406 | 100 | 0 | 0.1 | 99.9 |
| 01467086 | WWF | 14760 | 99.9 | 0.1 | 2.4 | 97.6 |
| 01467087 | WWF | 28074 | 99.7 | 0.3 | 20 | 80 |
| 01467200* | DRBC | 34711 | 100 | 0 | NA | NA |
| 01473900 | TSF | 24769 | 100 | 0 | 5.1 | 94.9 |
| 01474000 | TSF | 12837 | 100 | 0 | 0 | 100 |
| 01474500 | WWF | 16372 | 100 | 0 | 0 | 100 |
| 01475530 | WWF | 23014 | 100 | 0 | 0 | 100 |
| 01475548 | WWF | 22720 | 99.5 | 0.5 | 7.8 | 92.2 |

*No minimum DO criterion applies at gages 01467200 and 014670261

**Table 4.** USGS Gage July 2024 - November 2024 Dissolved Oxygen 7-Day Average Criterion Summary Results

| Gage number | Designated Use | Total hours accepted data | % flagged data | % hours non-attaining | % hours attaining |
|---|---|---|---|---|---|
| 01465798 | WWF | 3583.5 | 1.6 | 0 | 100 |
| 014670261* | DRBC | 3589.5 | 0 | NA | NA |
| 01467042 | TSF | 3510.75 | 1.4 | 0 | 100 |
| 01467048 | TSF | 3664.25 | 0 | 0 | 100 |
| 01467086 | WWF | 1673 | 0.1 | 0 | 100 |
| 01467087 | WWF | 3335 | 0.4 | 19.1 | 80.9 |
| 01467200* | DRBC | 3645.5 | 0 | NA | NA |
| 01473900 | TSF | 3513.75 | 0 | 6.8 | 93.2 |
| 01474000 | TSF | 1830.25 | 0 | 0 | 100 |
| 01474500 | WWF | 1831.5 | 0 | 0 | 100 |
| 01475530 | WWF | 3295.5 | 0 | 0 | 100 |
| 01475548 | WWF | 3510 | 0.7 | 6.6 | 93.4 |

*No minimum DO criterion applies at gages 01467200 and 014670261

**Table 5.** USGS Gage March 2025 - June 2025 Dissolved Oxygen 7-Day Average Criterion Summary Results

| Gage number | Designated Use | Total hours accepted data | % flagged data | % hours non-attaining | % hours attaining |
|---|---|---|---|---|---|
| 01465798 | WWF | 2587.25 | 0 | 0 | 100 |
| 014670261* | DRBC | 2769.25 | 0 | NA | NA |
| 01467042 | TSF | 2740.25 | 0.9 | 0 | 100 |
| 01467048 | TSF | 2646.75 | 0 | 0 | 100 |
| 01467086 | WWF | 1972.5 | 0.1 | 0 | 100 |
| 01467087 | WWF | 2390.75 | 0 | 30.4 | 69.6 |
| 01467200* | DRBC | 2894.25 | 0 | NA | NA |
| 01473900 | TSF | 2544.5 | 0 | 0 | 100 |
| 01474000 | TSF | 1335 | 0 | 0 | 100 |
| 01474500 | WWF | 1448 | 0 | 0 | 100 |
| 01475530 | WWF | 2458 | 0 | 0 | 100 |
| 01475548 | WWF | 1867.25 | 0 | 4.5 | 95.5 |

*No minimum DO criterion applies at gages 01467200 and 014670261

**Table 6.** USGS Gage 01467200 and 014670261 Dissolved Oxygen Seasonal Mean Criterion Summary Result

| Gage number | Designated Use | Days, n | Minimum Daily Average | Maximum Daily Average | Seasonal mean | Attaining Standard? |
|---|---|---|---|---|---|---|
| 01467200 | DRBC | 77 | 7.25 | 10.23 | 8.58 | Yes |
| 014670261 | DRBC | 77 | 7.53 | 10.85 | 8.88 | Yes |

## pH

### Background

pH has been identified as a parameter of potential concern for some of Philadelphia's watersheds, primarily because of algal effects on the dissolved inorganic carbon (DIC) composition of stream water. Algae take up $CO_2$ during photosynthesis and shift the composition of DIC toward the alkaline carbonates, resulting in occasional failure to attain maximum pH criteria at some sites (Table 7). pH fluctuations are typically observed concomitant with pronounced dissolved oxygen fluctuations, as detailed in the Monthly Results section.

At gages 01467200 and 014670261, pH criteria (regulated by DRBC) are bounded by 6.5 and 8.5. At all other gages, pH criteria are bounded by daily minima and maxima of 6.0 and 9.0, respectively, as defined by PA DEP water quality standards.

### Results

Results were processed as follows for Table 7. The "percent accepted data" are the percentage of observations that were not flagged. The remainder of the table lists the percentage of data that was flagged, the percentages of accepted observations that attained or failed to attain criteria, and the percentages of daily minima and maxima that attained or failed to attain criteria.

Minimum pH criteria were attained at all gages for the reporting time frame. Algal blooms may be responsible for daily maximum pH criterion exceedance at several sites during March and April.

**Table 7.** USGS Gage July 2024 - June 2025 pH Criteria Summary Results

| Gage number | Observations, n | % accepted data | % flagged data | % min. non-attaining | % max. non-attaining | % min. attaining | % max. attaining | % attaining |
|---|---|---|---|---|---|---|---|---|
| 01465798 | 25627 | 99.1 | 0.9 | 0 | 0.3 | 100 | 99.7 | 99.7 |
| 014670261 | 33120 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01467042 | 25198 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01467048 | 25302 | 100 | 0 | 0 | 0.8 | 100 | 99.2 | 99.2 |
| 01467086 | 14640 | 99.7 | 0.3 | 0 | 0.1 | 100 | 99.9 | 99.9 |
| 01467087 | 30633 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01467200 | 34473 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01473900 | 24664 | 100 | 0 | 0 | 0.3 | 100 | 99.7 | 99.7 |
| 01474000 | 12808 | 100 | 0 | 0 | 0.3 | 100 | 99.7 | 99.7 |
| 01474500 | 16325 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01475530 | 22913 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01475548 | 23228 | 100 | 0 | 0 | 0.2 | 100 | 99.8 | 99.8 |

## Turbidity

### Background

Turbidity in Philadelphia's streams increases with increased flow as inorganic sediment and additional constituents of stormwater runoff are introduced to the stream or scoured/eroded from the stream channel. There are no numeric PA DEP water quality criteria for turbidity, so PWD watershed management plans used a reference value for turbidity that was derived from EPA Guidance document EPA 822-B-00-023 (*i.e.*, 2.825 NTU). This value is surpassed more often in wet weather than in dry weather (Tables 72-73). Turbidity data has also been used to help investigate sediment loading and transport in the Wissahickon Creek Watershed for the Wissahickon Creek Sediment TMDL.

### Results

Results were processed as follows for Table 8. The "percent accepted data" are the percentage of observations that were not flagged. The remainder of the table lists the percentage of observations that were flagged, and the percentages of accepted data that either surpassed or fell below the maximum guideline.

Among the tributary sites, the maximum guideline was most frequently surpassed at the Schuylkill gage, and least frequently surpassed at the downstream Wissahickon Creek gage.

**Table 8.** USGS Gage July 2024 - June 2025 Turbidity Summary Results

| Gage number | Observations, n | % accepted data | % flagged data | % hrs. above max. guideline | % hrs. below max. guideline |
|---|---|---|---|---|---|
| 01465798 | 25415 | 100 | 0 | 25.1 | 74.9 |
| 014670261 | 33203 | 100 | 0 | 95.3 | 4.7 |
| 01467042 | 25195 | 98.8 | 1.2 | 15.9 | 84.1 |
| 01467048 | 24654 | 100 | 0 | 23.5 | 76.5 |
| 01467086* | 0 | NA | NA | NA | NA |
| 01467087* | 0 | NA | NA | NA | NA |
| 01467200 | 34618 | 100 | 0 | 96 | 4 |
| 01473900 | 24931 | 99.3 | 0.7 | 36.9 | 63.1 |
| 01474000 | 12797 | 100 | 0 | 12 | 88 |
| 01474500 | 16289 | 100 | 0 | 44.4 | 55.6 |
| 01475530* | 0 | NA | NA | NA | NA |
| 01475548* | 0 | NA | NA | NA | NA |

*Turbidity is not continuously monitored at these locations

## Specific Conductance

### Background

Specific conductance is a measure of the ability of water to conduct electricity over a given distance, expressed as microsiemens/cm (corrected to 25ºC). Conductivity in Philadelphia streams is extremely sensitive to changes in flow, as stormwater (diluent) usually contains smaller concentrations of dissolved ions than stream baseflow. Stormwater runoff typically lowers conductivity in streams; an exception sometimes occurs in winter and early spring, when road salt applied prior to snowstorms enters the stream in runoff or during snowmelt. Data collected in the report timeframe were generally consistent with earlier observations. When significant changes in conductivity are observed during dry weather, it can be an indicator of anthropogenic influence or pollution in the stream; stations receiving inputs of treated wastewater generally had greater conductivity.

### Results

There is no water quality standard for specific conductance. Table 9 merely illustrates the number of observations that were not flagged and considered "accepted" and the percentage of observations that were flagged. More detailed results at each site are described in the Monthly Results section.

**Table 9.** USGS Gage July 2024 - June 2025 Specific Conductance Summary Results

| Gage number | Observations, n | % accepted data | % flagged data |
|---|---|---|---|
| 01465798 | 25717 | 100 | 0 |
| 014670261 | 33269 | 100 | 0 |
| 01467042 | 25100 | 100 | 0 |
| 01467048 | 25099 | 100 | 0 |
| 01467086 | 14881 | 100 | 0 |
| 01467087 | 31281 | 100 | 0 |
| 01467200 | 34711 | 100 | 0 |
| 01473900 | 25037 | 100 | 0 |
| 01474000 | 12861 | 100 | 0 |
| 01474500 | 16370 | 100 | 0 |
| 01475530 | 23004 | 100 | 0 |
| 01475548 | 23228 | 100 | 0 |

## Temperature

### Background

Streams in the Philadelphia region are designated Warm Water Fisheries (WWF) or Trout Stocking Fisheries (TSF), with separate corresponding temperature criteria (Table 10). These criteria are "stepped" (remaining constant for 15- or 30-day intervals), while streams tend to warm up and cool down more gradually due primarily to changes in ambient temperature. (Gages 01467200 and 014670261 are the exceptions and are subject to a DRBC criterion of 30°C maximum). Stream temperatures were observed to exceed these criteria, somewhat frequently in springtime. These exceedances are generally natural, as there are no major sources of heated wastes. It is possible that baseflow diminution is partially responsible for a lack of buffering against temperature increases.

**Table 10.** PA DEP Temperature Water Quality Criteria

| Date range start | Date range end | WWF maximum (°C) | WWF maximum (°F) | TSF maximum (°C) | TSF maximum (°F) |
|---|---|---|---|---|---|
| 1/1 | 1/31 | 4 | 40 | 4 | 40 |
| 2/1 | 2/29 | 4 | 40 | 4 | 40 |
| 3/1 | 3/31 | 8 | 46 | 8 | 46 |
| 4/1 | 4/15 | 11 | 52 | 11 | 52 |
| 4/16 | 4/30 | 14 | 58 | 14 | 58 |
| 5/1 | 5/15 | 18 | 64 | 18 | 64 |
| 5/16 | 5/31 | 22 | 72 | 20 | 68 |
| 6/1 | 6/15 | 27 | 80 | 21 | 70 |
| 6/16 | 6/30 | 29 | 84 | 22 | 72 |
| 7/1 | 7/31 | 31 | 87 | 23 | 74 |
| 8/1 | 8/15 | 31 | 87 | 27 | 80 |
| 8/16 | 8/30 | 31 | 87 | 31 | 87 |
| 9/1 | 9/15 | 29 | 84 | 29 | 84 |
| 9/16 | 9/30 | 26 | 78 | 26 | 78 |
| 10/1 | 10/15 | 22 | 72 | 22 | 72 |
| 10/16 | 10/31 | 19 | 66 | 19 | 66 |
| 11/1 | 11/15 | 14 | 58 | 14 | 58 |
| 11/16 | 11/30 | 10 | 50 | 10 | 50 |
| 12/1 | 12/31 | 6 | 42 | 6 | 42 |

### Results

Results were processed in the same manner as the parameters described above. The highest exceedance rate occurred at the downstream Pennypack Creek gage. The six gages designated as WWF have less stringent criteria.

**Table 11.** USGS Gage July 2024 - June 2025 Temperature Maximum Criteria Summary Results

| Gage number | Designated Use | Observations, n | % accepted data | % flagged data | % exceedance | % attaining |
|---|---|---|---|---|---|---|
| 01465798 | WWF | 25734 | 100 | 0 | 22 | 78 |
| 014670261 | DRBC | 33300 | 100 | 0 | 0 | 100 |
| 01467042 | TSF | 25295 | 100 | 0 | 36.9 | 63.1 |
| 01467048 | TSF | 25123 | 100 | 0 | 39.9 | 60.1 |
| 01467086 | WWF | 14895 | 100 | 0 | 20.7 | 79.3 |
| 01467087 | WWF | 31339 | 100 | 0 | 22.1 | 77.8 |
| 01467200 | DRBC | 34712 | 100 | 0 | 0 | 100 |
| 01473900 | TSF | 25051 | 100 | 0 | 35.8 | 64.2 |
| 01474000 | TSF | 12735 | 100 | 0 | 35.5 | 64.5 |
| 01474500 | WWF | 16384 | 100 | 0 | 22 | 78 |
| 01475530 | WWF | 23011 | 100 | 0 | 15.8 | 84.2 |
| 01475548 | WWF | 23229 | 100 | 0 | 14.1 | 85.9 |

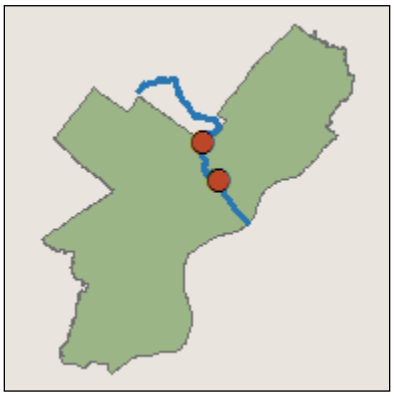
# Monthly Results, July 2024 - June 2025

This section summarizes results at the monthly time scale. Results were processed in the same manner as in the previous section. Gages are grouped according to the type of sewer system that impacts water quality at the site.

## Gages in Combined Sewer System Watersheds

The combined sewer system serves more than three-quarters of Philadelphia's residents and covers the oldest and densest parts of the city. Combined sewer outfalls affect the Tookany/Tacony-Frankford and Darby-Cobbs watersheds. (The Delaware and Schuylkill rivers also contain combined sewer outfalls but are detailed in a later section focused on large watersheds.) The gages in this section are subject to the deleterious effects of periodic combined sewer overflows during wet weather and snowmelt.

## Tookany/Tacony-Frankford Creek (Gages 01467086 and 01467087)



### Dissolved oxygen and pH

Dissolved oxygen concentrations were markedly worse between the upstream and downstream Tacony Creek gages. The monthly minima, percentage of observations the minimum criterion was not attained, and exceedance of the 7-day average guideline were typically much worse at the downstream gage (Tables 12-13, Figures 5-8). For example, DO was poor at the downstream Tacony Creek gage during June 2025 (Figure 10). However, the minimum criterion was almost always attained at gage 01467086 during that same month (Figure 9). This difference likely reflects the additional stormwater runoff and sewage overflows that entered the creek between the two gages.

The lowest DO concentrations are typically seen in the period after storm events, reflecting both the immediate and lingering, oxygen-depleting effects of stormwater runoff and biochemical oxygen demand (BOD) entering the stream. Diel DO fluctuations are suppressed for a few days following a storm event because the event either scours away algae or temporarily inhibits their growth. As dry weather continues, the algae

recover and diel DO and pH fluctuations typically increase, sometimes resulting in higher daily peaks in pH, as observed at the upstream gage in April 2025 (Figure 11). Percent DO saturation of more than 150% in daylight were also observed at gage 01467086 in April 2025, indicating high levels of algal activity (Figure 12; PAR is defined as photosynthetically active radiation). Diel DO fluctuations tended to increase with prolonged periods of sunlight, further indicating high levels of algal activity.

A lower monthly mean pH was usually observed at gage 01467087, along with generally less pronounced diel pH fluctuations, probably due to an increased buffering capacity at the downstream gage and a lesser degree of algal growth (Tables 14-15).

**Table 12.** Gage 01467086 Dissolved Oxygen Minimum Criterion Summary Results by Month

| Month | Des. Use | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | WWF | 1484 | 2.1 | 13.1 | 6.5 | 99.9 | 0.1 | 20.3 | 79.7 |
| Aug-24 | WWF | 1488 | 3.4 | 15.2 | 8 | 100 | 0 | 2.9 | 97.1 |
| Sep-24 | WWF | 1440 | 5.2 | 13.6 | 8.5 | 99.9 | 0.1 | 0 | 100 |
| Oct-24 | WWF | 848 | 6.2 | 13.2 | 9.8 | 99.9 | 0.1 | 0 | 100 |
| Nov-24 | WWF | 1436 | 5.5 | 13.3 | 9.4 | 100 | 0 | 0 | 100 |
| Dec-24 | WWF | 170 | 10.2 | 12.5 | 11.5 | 100 | 0 | 0 | 100 |
| Mar-25 | WWF | 975 | 6.9 | 16.5 | 11.2 | 99.8 | 0.2 | 0 | 100 |
| Apr-25 | WWF | 2142 | 5.6 | 16.2 | 10.2 | 99.9 | 0.1 | 0 | 100 |
| May-25 | WWF | 1995 | 4.9 | 13.1 | 7.9 | 100 | 0 | 0.1 | 99.9 |
| Jun-25 | WWF | 2782 | 4.4 | 11.4 | 7.4 | 100 | 0 | 0.3 | 99.7 |

**Table 13.** Gage 01467087 Dissolved Oxygen Minimum Criterion Summary Results by Month

| Month | Des. Use | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | WWF | 2587 | 0.3 | 8.2 | 3.7 | 98.1 | 1.9 | 75 | 25 |
| Aug-24 | WWF | 2478 | 0.3 | 9.7 | 6.4 | 100 | 0 | 24.1 | 75.9 |
| Sep-24 | WWF | 2879 | 2.8 | 9.6 | 7 | 100 | 0 | 6.6 | 93.4 |
| Oct-24 | WWF | 2973 | 6.3 | 11.3 | 8.7 | 100 | 0 | 0 | 100 |
| Nov-24 | WWF | 2475 | 3.2 | 11 | 7.7 | 99.9 | 0.1 | 2.7 | 97.3 |
| Dec-24 | WWF | 1711 | 3 | 13.1 | 9.8 | 97.9 | 2.1 | 3.3 | 96.7 |
| Jan-25 | WWF | 1717 | 1.3 | 13 | 9 | 100 | 0 | 13.6 | 86.4 |
| Feb-25 | WWF | 1687 | 4.4 | 13.8 | 10.5 | 99.9 | 0.1 | 0.6 | 99.4 |
| Mar-25 | WWF | 2186 | 4.9 | 13.2 | 10.4 | 100 | 0 | 0.1 | 99.9 |
| Apr-25 | WWF | 2679 | 5.1 | 12.3 | 9.2 | 100 | 0 | 0 | 100 |
| May-25 | WWF | 2193 | 1.5 | 8.9 | 6.1 | 100 | 0 | 22.1 | 77.9 |
| Jun-25 | WWF | 2509 | 0.3 | 9.1 | 3.3 | 99.9 | 0.1 | 82.3 | 17.7 |

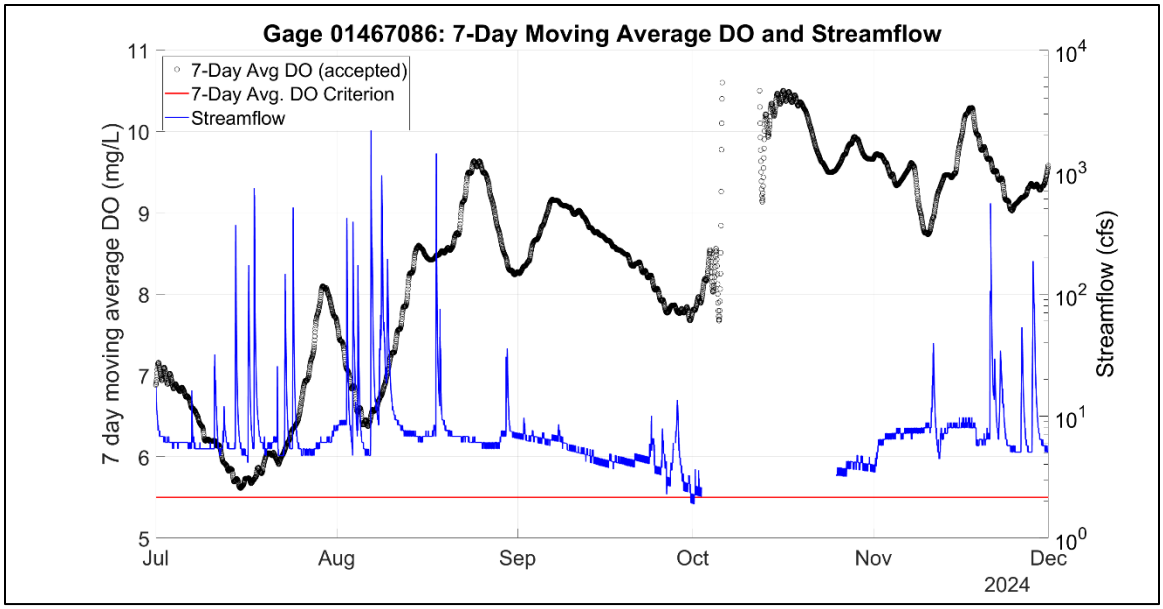



**Figure 5.** Gage 01467086, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Nov 2024.

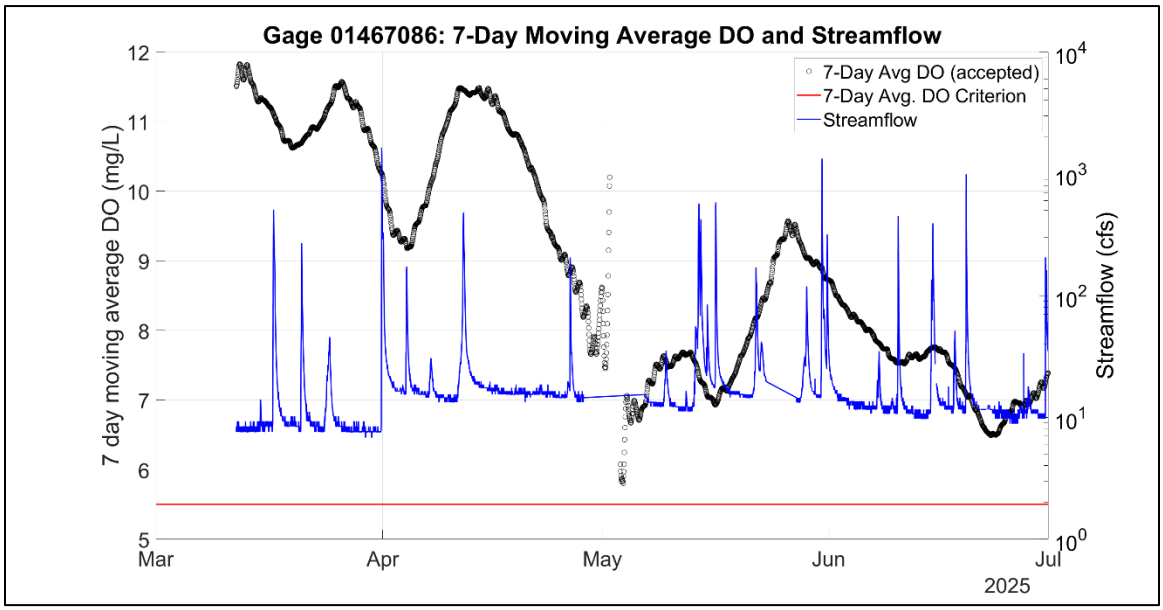



**Figure 6.** Gage 01467086, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2025.

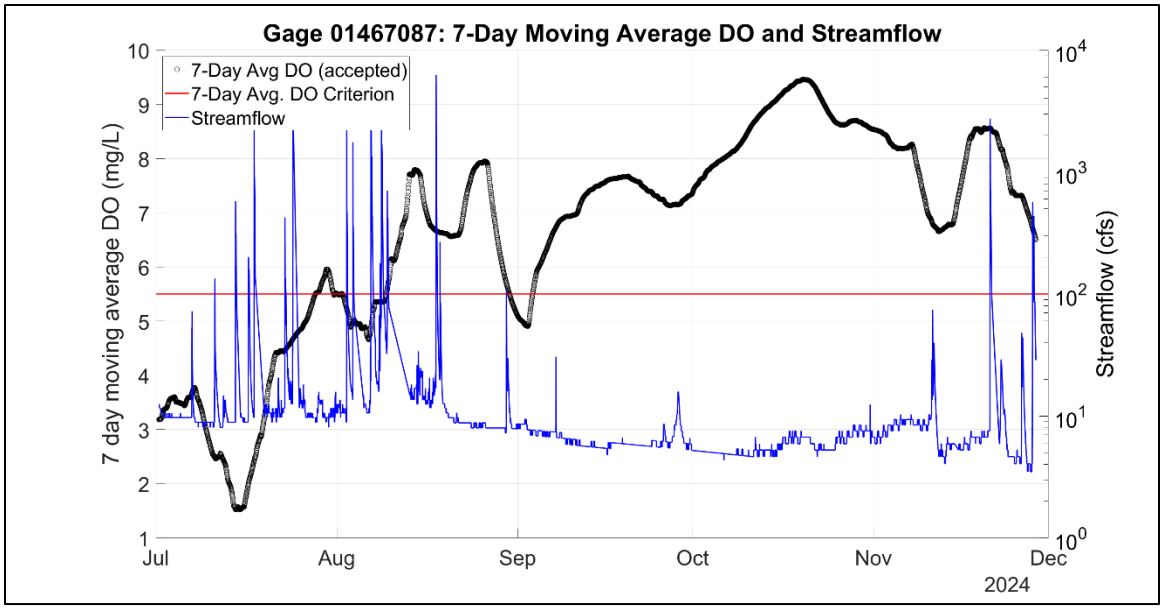



**Figure 7.** Gage 01467087, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Nov 2024.

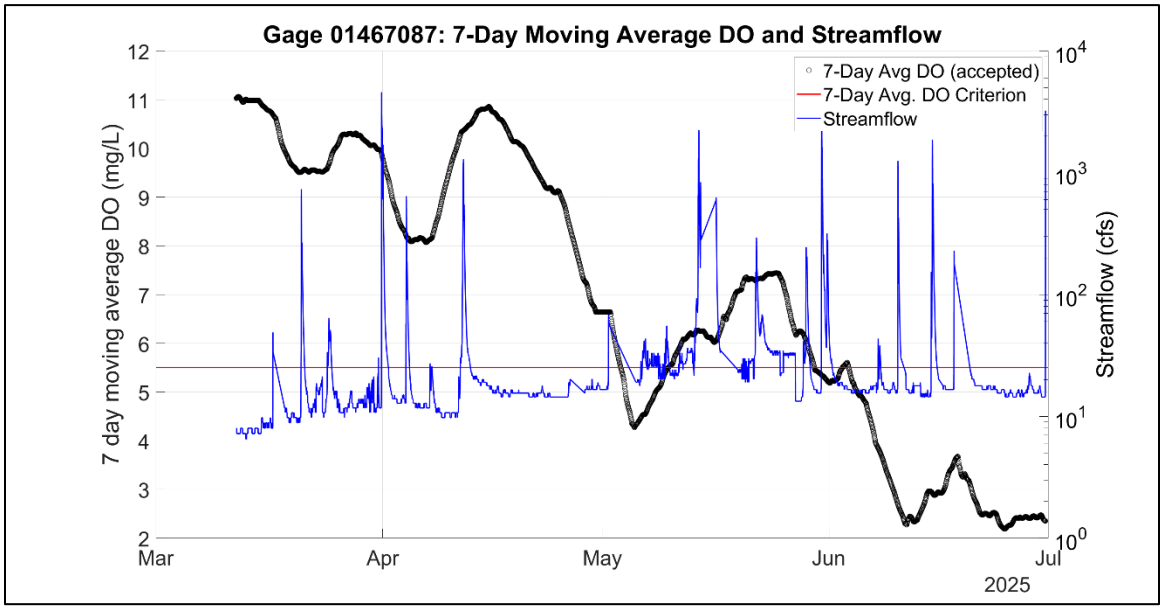



**Figure 8.** Gage 01467087, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2025.

**Table 14.** Gage 01467086 pH Criteria Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % min non-attaining | % max non-attaining | % min attaining | % max attaining |
|---|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | 1483 | 6.8 | 8.7 | 7.5 | 97.5 | 2.5 | 0 | 0 | 100 | 100 |
| Aug-24 | 1485 | 7.0 | 9.0 | 7.7 | 100 | 0 | 0 | 0 | 100 | 100 |
| Sep-24 | 1439 | 6.6 | 8.6 | 7.8 | 99.9 | 0.1 | 0 | 0 | 100 | 100 |
| Oct-24 | 848 | 7.3 | 8.1 | 7.7 | 99.9 | 0.1 | 0 | 0 | 100 | 100 |
| Nov-24 | 1431 | 7.2 | 8.1 | 7.5 | 100 | 0 | 0 | 0 | 100 | 100 |
| Dec-24 | 170 | 7.4 | 7.6 | 7.6 | 100 | 0 | 0 | 0 | 100 | 100 |
| Mar-25 | 978 | 7.0 | 9.2 | 8.0 | 99.8 | 0.2 | 0 | 1.2 | 100 | 98.8 |
| Apr-25 | 2147 | 6.2 | 9.0 | 7.8 | 100 | 0 | 0 | 0 | 100 | 100 |
| May-25 | 1995 | 7.0 | 8.5 | 7.5 | 100 | 0 | 0 | 0 | 100 | 100 |
| Jun-25 | 2759 | 7.0 | 8.4 | 7.6 | 100 | 0 | 0 | 0 | 100 | 100 |

**Table 15.** Gage 01467087 pH Criteria Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % min non-attaining | % max non-attaining | % min attaining | % max attaining |
|---|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | 2949 | 6.4 | 7.6 | 6.9 | 99.9 | 0.1 | 0 | 0 | 100 | 100 |
| Aug-24 | 2970 | 6.3 | 8.1 | 7.3 | 100 | 0 | 0 | 0 | 100 | 100 |
| Sep-24 | 2704 | 7.1 | 7.8 | 7.5 | 100 | 0 | 0 | 0 | 100 | 100 |
| Oct-24 | 2973 | 7.4 | 8.0 | 7.6 | 100 | 0 | 0 | 0 | 100 | 100 |
| Nov-24 | 2803 | 6.8 | 7.7 | 7.4 | 99.9 | 0.1 | 0 | 0 | 100 | 100 |
| Dec-24 | 2305 | 6.8 | 7.5 | 7.2 | 100 | 0 | 0 | 0 | 100 | 100 |
| Jan-25 | 1624 | 6.8 | 7.6 | 7.2 | 100 | 0 | 0 | 0 | 100 | 100 |
| Feb-25 | 1687 | 6.9 | 7.6 | 7.3 | 100 | 0 | 0 | 0 | 100 | 100 |
| Mar-25 | 2185 | 7.0 | 8.3 | 7.6 | 100 | 0 | 0 | 0 | 100 | 100 |
| Apr-25 | 2679 | 6.8 | 7.9 | 7.4 | 100 | 0 | 0 | 0 | 100 | 100 |
| May-25 | 2973 | 6.0 | 7.6 | 7.1 | 100 | 0 | 0 | 0 | 100 | 100 |
| Jun-25 | 2876 | 6.4 | 7.4 | 7.1 | 100 | 0 | 0 | 0 | 100 | 100 |

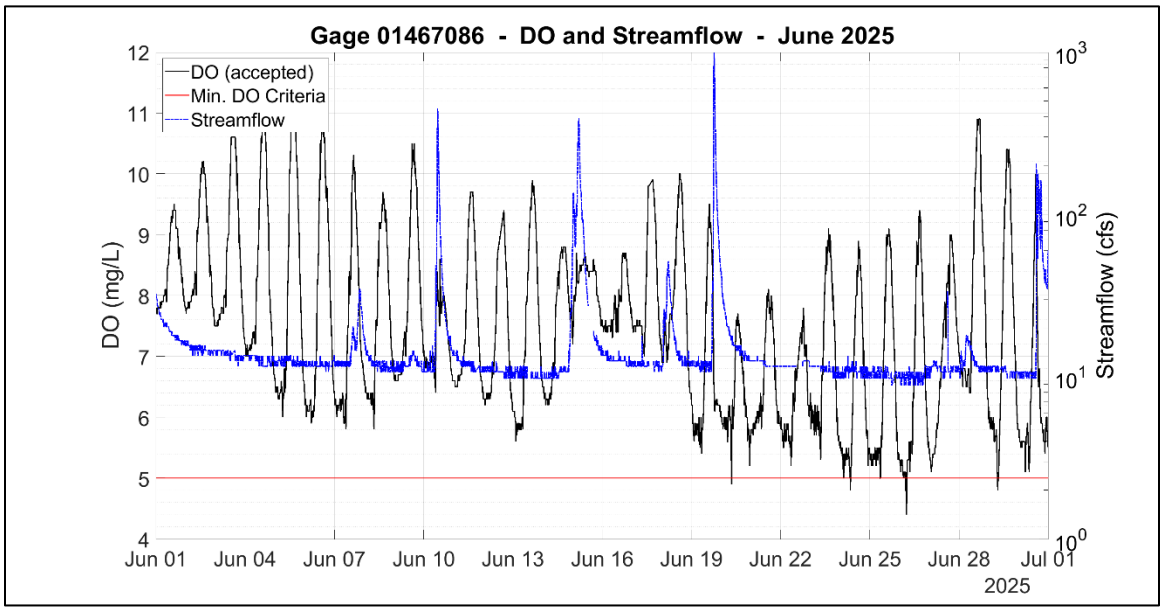



**Figure 9.** Gage 01467086, Dissolved Oxygen and Streamflow, June 2025.

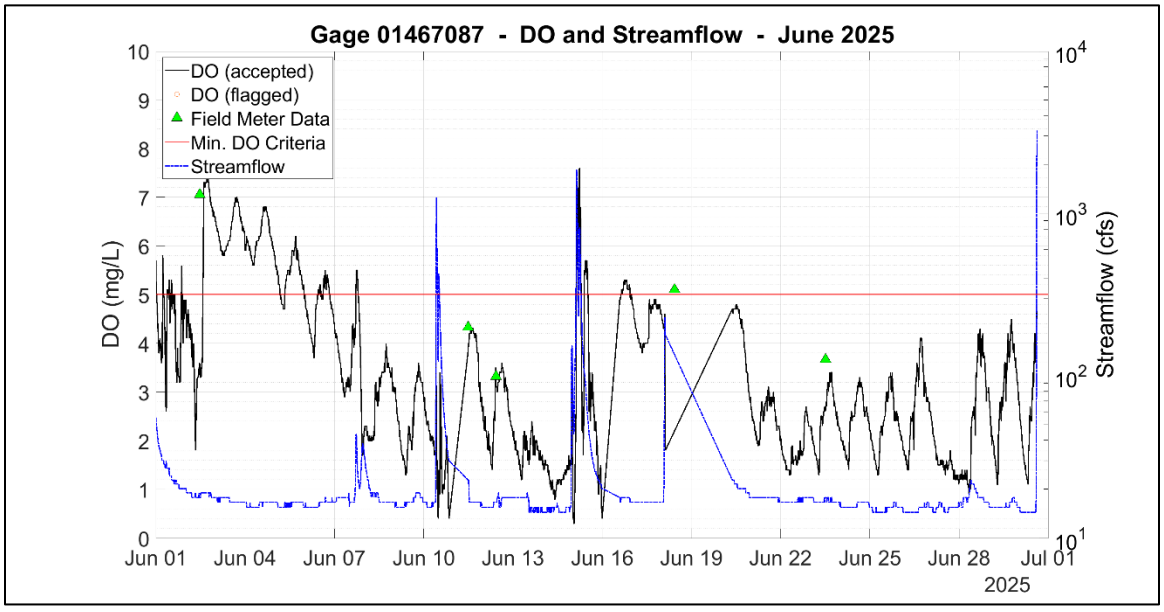



**Figure 10.** Gage 01467087, Dissolved Oxygen and Streamflow, June 2025.

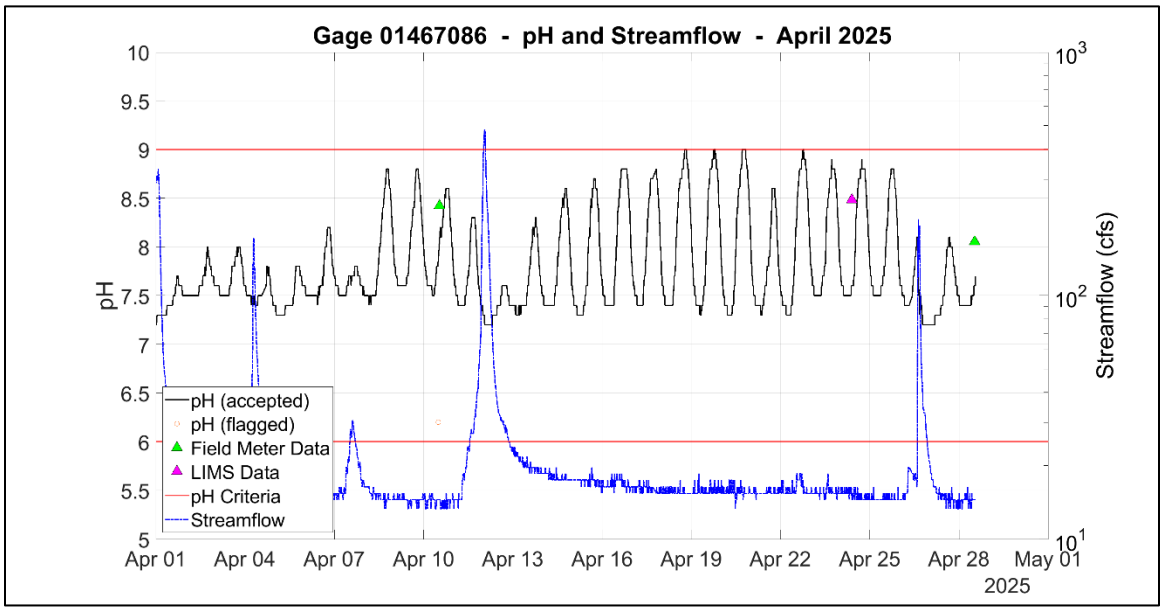



**Figure 11.** Gage 01467086, pH and Streamflow, April 2025.

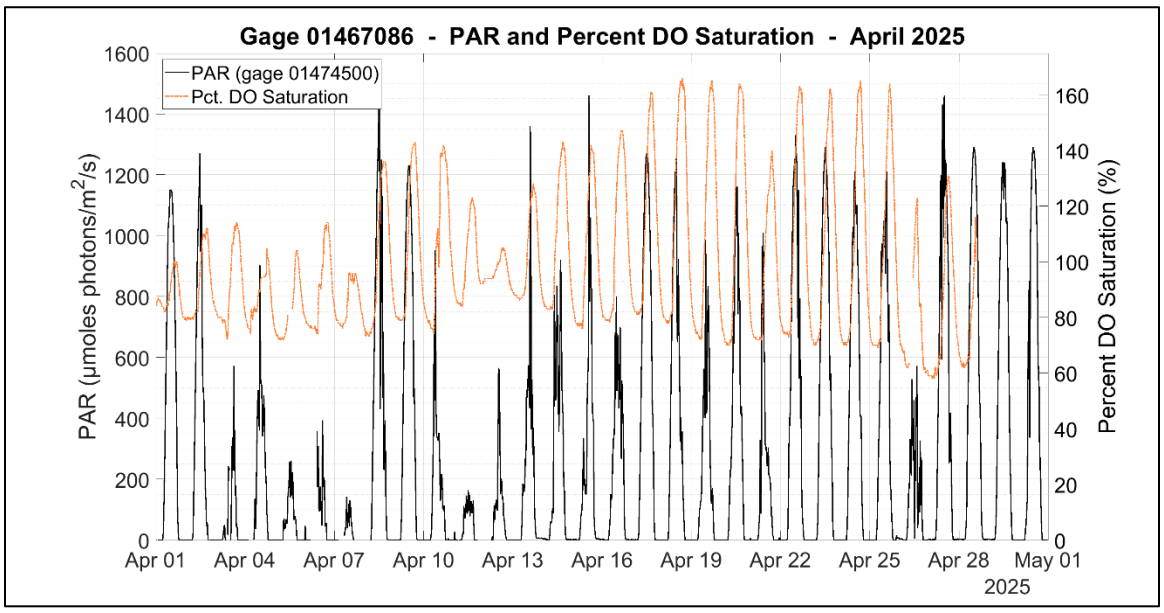



**Figure 12.** Gage 01467086, PAR and Percent Dissolved Oxygen Saturation, April 2025.




**Figure 13.** Gage 01467086, Tacony Creek at Adams Ave.



**Figure 14.** Gage 01467087, Frankford Creek at Castor Ave., looking upstream

## Specific Conductance

Specific conductance observations were usually consistent in the summer, fall, and spring between the two gage sites (Tables 16-17). Elevated levels of specific conductance observed in late fall and winter months are likely due to the effects of road salt entering the stream.

**Table 16.** Gage 01467086 Specific Conductance Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data |
|---|---|---|---|---|---|---|
| Jul-24 | 1481 | 61 | 722 | 547.2 | 100 | 0 |
| Aug-24 | 1485 | 73 | 725 | 535 | 100 | 0 |
| Sep-24 | 1436 | 11 | 745 | 710.6 | 99.9 | 0.1 |
| Oct-24 | 846 | 612 | 742 | 727 | 100 | 0 |
| Nov-24 | 1433 | 149 | 746 | 597.6 | 100 | 0 |
| Dec-24 | 170 | 444 | 705 | 613.5 | 100 | 0 |
| Mar-25 | 976 | 141 | 833 | 697.6 | 100 | 0 |
| Apr-25 | 2172 | 47 | 762 | 663.1 | 100 | 0 |
| May-25 | 2006 | 84 | 742 | 535.7 | 100 | 0 |
| Jun-25 | 2876 | 132 | 734 | 605.4 | 100 | 0 |

**Table 17.** Gage 01467087 Specific Conductance Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data |
|---|---|---|---|---|---|---|
| Jul-24 | 2948 | 116 | 728 | 476 | 100 | 0 |
| Aug-24 | 2968 | 53 | 723 | 476.3 | 100 | 0 |
| Sep-24 | 2874 | 639 | 766 | 730.7 | 100 | 0 |
| Oct-24 | 2970 | 655 | 770 | 743 | 100 | 0 |
| Nov-24 | 2799 | 181 | 790 | 602 | 100 | 0 |
| Dec-24 | 2309 | 188 | 1870 | 653.1 | 100 | 0 |
| Jan-25 | 1714 | 359 | 2340 | 1021.9 | 99.9 | 0.1 |
| Feb-25 | 1687 | 626 | 4850 | 2462.7 | 100 | 0 |
| Mar-25 | 2336 | 109 | 859 | 679.9 | 100 | 0 |
| Apr-25 | 2870 | 134 | 769 | 611.1 | 100 | 0 |
| May-25 | 2971 | 86 | 792 | 535.3 | 100 | 0 |
| Jun-25 | 2835 | 176 | 751 | 580.5 | 100 | 0 |

### Temperature

Monthly mean temperatures observed at the downstream gage were usually higher than at the upstream gage. Consequently, a higher rate of temperature criteria exceedance was typically observed at the downstream gage (Tables 18-19).

**Table 18.** Gage 01467086 Temperature Summary Results by Maximum Criteria Period

| Designated Use | Date range start | Date range end | % exceedance | % attaining | % flagged data | % accepted data | Min | Max | Mean |
|---|---|---|---|---|---|---|---|---|---|
| WWF | 1-Jul | 31-Jul | 0 | 100 | 0.1 | 99.9 | 20.6 | 32.2 | 25.2 |
| WWF | 1-Aug | 15-Aug | 0 | 100 | 0 | 100 | 20.1 | 28.9 | 24.4 |
| WWF | 16-Aug | 31-Aug | 0 | 100 | 0 | 100 | 17.5 | 26.2 | 22.1 |
| WWF | 1-Sep | 15-Sep | 0 | 100 | 0 | 100 | 15.7 | 24.2 | 19.9 |
| WWF | 16-Sep | 30-Sep | 0 | 100 | 0 | 100 | 17.9 | 22.3 | 19.7 |
| WWF | 1-Oct | 15-Oct | 0 | 100 | 0 | 100 | 17.5 | 19.1 | 18.4 |
| WWF | 16-Oct | 31-Oct | 0 | 100 | 0.3 | 99.7 | 8.8 | 21.5 | 12.3 |
| WWF | 1-Nov | 15-Nov | 25.7 | 74.3 | 0 | 100 | 6.5 | 17.4 | 12.1 |
| WWF | 16-Nov | 30-Nov | 23.8 | 76.2 | 0 | 100 | 6 | 12.7 | 9 |
| WWF | 1-Mar | 31-Mar | 94.5 | 5.5 | 0 | 100 | 6.4 | 17.8 | 11.2 |
| WWF | 1-Apr | 15-Apr | 42.3 | 57.7 | 0.1 | 99.9 | 6.7 | 18 | 11 |
| WWF | 16-Apr | 30-Apr | 76.8 | 23.2 | 0 | 100 | 8.4 | 21.1 | 15.7 |
| WWF | 1-May | 15-May | 47.6 | 52.4 | 0 | 100 | 13.7 | 21.9 | 18.1 |
| WWF | 16-May | 31-May | 2.7 | 97.3 | 0 | 100 | 13.2 | 22.8 | 17.3 |
| WWF | 1-Jun | 15-Jun | 0 | 100 | 0.1 | 99.9 | 14.5 | 24.9 | 20 |
| WWF | 16-Jun | 30-Jun | 1.9 | 98.1 | 0 | 100 | 16.8 | 29.7 | 23 |

**Table 19.** Gage 01467087 Temperature Summary Results by Maximum Criteria Period

| Designated Use | Date range start | Date range end | % exceedance | % attaining | % flagged data | % accepted data | Min | Max | Mean |
|---|---|---|---|---|---|---|---|---|---|
| WWF | 1-Jul | 31-Jul | 0 | 100 | 0 | 100 | 23.1 | 30.6 | 26.3 |
| WWF | 1-Aug | 15-Aug | 0 | 100 | 0 | 100 | 22.3 | 29.6 | 25.2 |
| WWF | 16-Aug | 31-Aug | 0 | 100 | 0.1 | 99.9 | 19.7 | 26.7 | 23.2 |
| WWF | 1-Sep | 15-Sep | 0 | 100 | 0 | 100 | 18 | 24.6 | 20.9 |
| WWF | 16-Sep | 30-Sep | 0 | 100 | 0 | 100 | 18.9 | 22.4 | 20.5 |
| WWF | 1-Oct | 15-Oct | 0 | 100 | 0 | 100 | 13.7 | 19.8 | 17.2 |
| WWF | 16-Oct | 31-Oct | 0 | 100 | 0 | 100 | 10 | 14.8 | 12.4 |
| WWF | 1-Nov | 15-Nov | 15.5 | 84.5 | 0 | 100 | 8.4 | 15.8 | 12.2 |
| WWF | 16-Nov | 30-Nov | 16.9 | 83.1 | 0 | 100 | 7.1 | 13.5 | 9 |
| WWF | 1-Mar | 31-Mar | 91 | 9 | 0 | 100 | 6.6 | 14.8 | 10.7 |
| WWF | 1-Apr | 15-Apr | 54.1 | 45.9 | 0 | 100 | 7.4 | 16.7 | 11.8 |
| WWF | 16-Apr | 30-Apr | 81.9 | 18.1 | 0.1 | 99.9 | 10.4 | 21 | 16.5 |
| WWF | 1-May | 15-May | 83.1 | 16.9 | 0 | 100 | 16.1 | 23 | 19.2 |
| WWF | 16-May | 31-May | 0.6 | 99.4 | 0 | 100 | 13.7 | 22.2 | 17.6 |
| WWF | 1-Jun | 15-Jun | 0 | 100 | 0 | 100 | 16.4 | 24.9 | 21 |
| WWF | 16-Jun | 30-Jun | 4.4 | 95.6 | 0 | 100 | 17.4 | 29.9 | 24 |

## Cobbs Creek (Gages 01475530 and 01475548)



### Dissolved oxygen and pH

The upstream Cobbs Creek site (01475530) almost always met the minimum dissolved oxygen criterion and never exceeded the 7-day average guideline (Table 20, Figures 15-16). Dissolved oxygen at the downstream site (01475548) did not always attain the minimum, particularly during the warmer months. The downstream site attained the 7-day average guideline, except during the summer (Figures 17-18).

The pattern of dissolved oxygen and pH values between the upstream and downstream Cobbs Creek gages is likely due to greater algal activity at the downstream gage. During the spring—key months for algal growth—the downstream site had daily pH fluctuations of more than 1 unit (Tables 22-23). Algae remove $CO_2$ during photosynthesis, raising pH by shifting the dissolved inorganic carbon (DIC) balance toward alkaline carbonates. The diel fluctuations in DO were also pronounced at both gages during these months (Figures 19-20).

A third indicator of increased algal activity in Cobbs Creek is the supersaturation of oxygen caused by photosynthesis. During May, the downstream gage recorded peak DO saturation levels over 125% during the day in dry weather conditions (Figures 21-22).

**Table 20.** Gage 01475530 Dissolved Oxygen Minimum Criterion Summary Results by Month

| Month | Des. Use | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | WWF | 2971 | 5.3 | 10.8 | 7.5 | 100 | 0 | 0 | 100 |
| Aug-24 | WWF | 2965 | 5.8 | 11.5 | 7.9 | 100 | 0 | 0 | 100 |
| Sep-24 | WWF | 2876 | 6.2 | 11.3 | 8.3 | 100 | 0 | 0 | 100 |
| Oct-24 | WWF | 2976 | 7.3 | 11.8 | 9.3 | 100 | 0 | 0 | 100 |
| Nov-24 | WWF | 1394 | 7.2 | 12.2 | 9.3 | 100 | 0 | 0 | 100 |
| Mar-25 | WWF | 1106 | 7.8 | 14 | 10.8 | 100 | 0 | 0 | 100 |
| Apr-25 | WWF | 2875 | 6.4 | 13.9 | 10.2 | 100 | 0 | 0 | 100 |
| May-25 | WWF | 2971 | 6 | 12.4 | 8.8 | 100 | 0 | 0 | 100 |
| Jun-25 | WWF | 2880 | 4.6 | 11.4 | 7.9 | 100 | 0 | 0.3 | 99.7 |

**Table 21.** Gage 01475548 Dissolved Oxygen Minimum Criterion Summary Results by Month

| Month | Des. Use | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | WWF | 2972 | 2.2 | 9.8 | 6.1 | 100 | 0 | 20.8 | 79.2 |
| Aug-24 | WWF | 2461 | 1.5 | 11.6 | 6.9 | 100 | 0 | 16.8 | 83.2 |
| Sep-24 | WWF | 2873 | 5.5 | 10.6 | 7.8 | 100 | 0 | 0 | 100 |
| Oct-24 | WWF | 2968 | 7.2 | 11.6 | 9.5 | 100 | 0 | 0 | 100 |
| Nov-24 | WWF | 2870 | 3.6 | 12 | 8.8 | 96.4 | 3.6 | 1.2 | 98.8 |
| Dec-24 | WWF | 1105 | 8.4 | 13.5 | 12.3 | 100 | 0 | 0 | 100 |
| Mar-25 | WWF | 1191 | 6.5 | 15.5 | 10.9 | 100 | 0 | 0 | 100 |
| Apr-25 | WWF | 1399 | 5.6 | 14.2 | 9.6 | 100 | 0 | 0 | 100 |
| May-25 | WWF | 2435 | 5.8 | 12.1 | 8.1 | 100 | 0 | 0 | 100 |
| Jun-25 | WWF | 2446 | 1.8 | 11.3 | 6 | 100 | 0 | 28.8 | 71.2 |

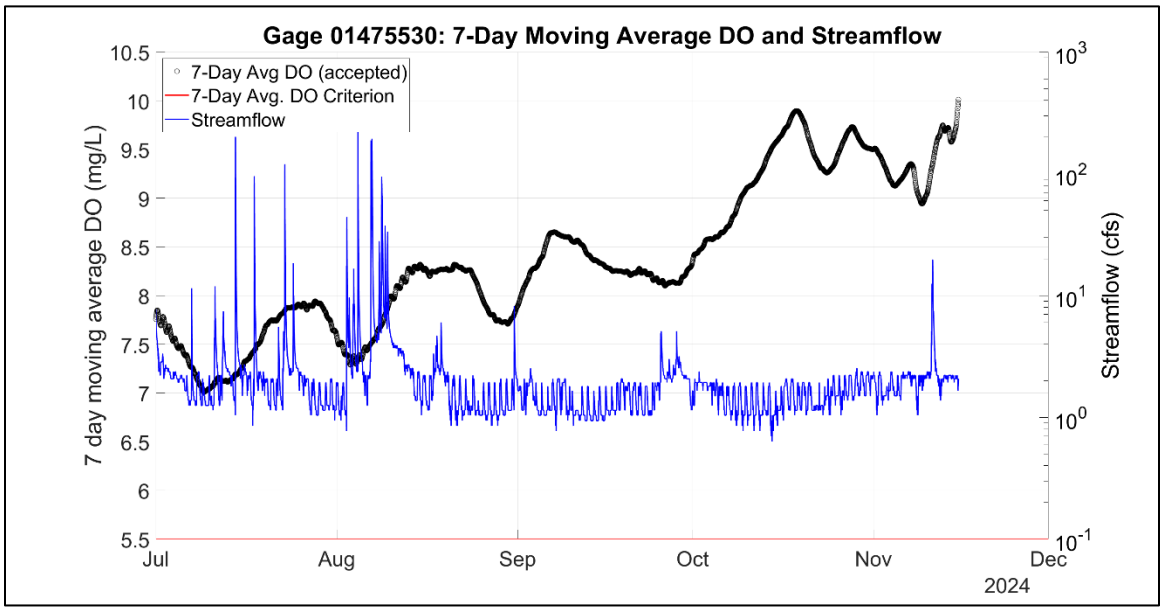



**Figure 15.** Gage 01475530, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Nov 2024.

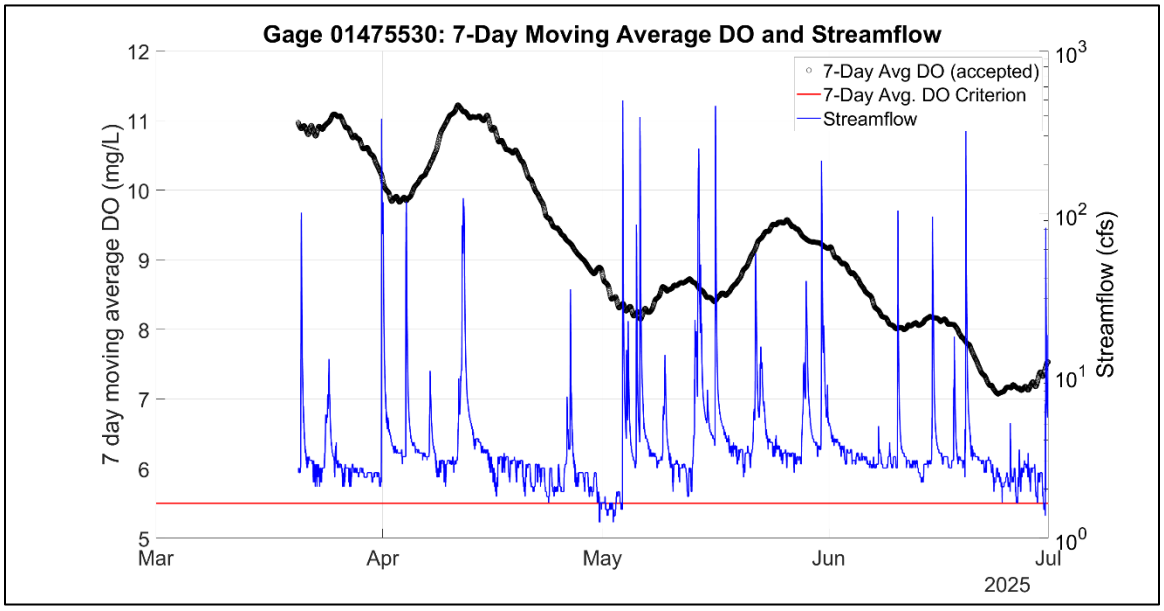



**Figure 16.** Gage 01475530, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2025.

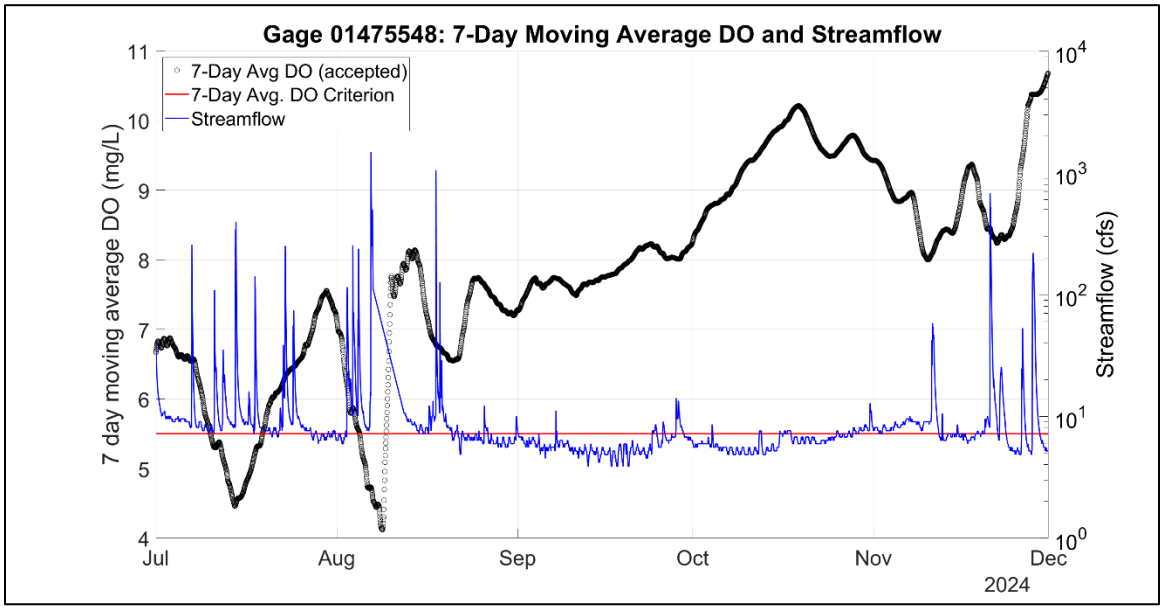



**Figure 17.** Gage 01475548, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Nov 2024.

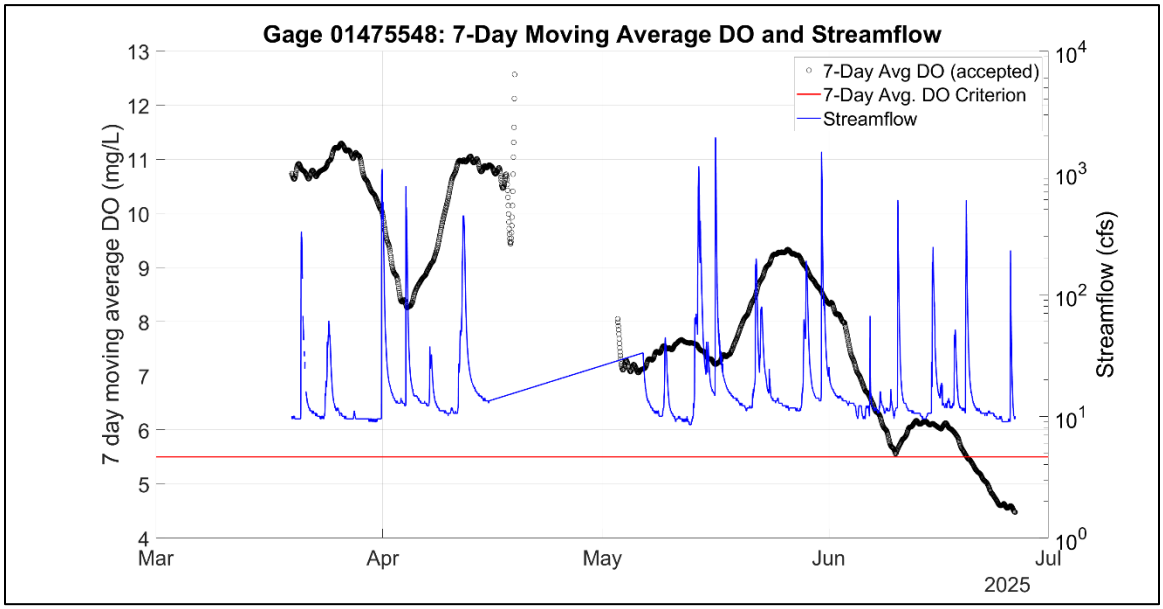



**Figure 18.** Gage 01475548, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2025.

**Table 22.** Gage 01475530 pH Criteria Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % min non-attaining | % max non-attaining | % min attaining | % max attaining |
|---|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | 2967 | 6.9 | 8.1 | 7.3 | 100 | 0 | 0 | 0 | 100 | 100 |
| Aug-24 | 2964 | 6.8 | 8.5 | 7.4 | 100 | 0 | 0 | 0 | 100 | 100 |
| Sep-24 | 2876 | 7.2 | 8.3 | 7.4 | 100 | 0 | 0 | 0 | 100 | 100 |
| Oct-24 | 2976 | 7.2 | 7.9 | 7.4 | 100 | 0 | 0 | 0 | 100 | 100 |
| Nov-24 | 1394 | 7.1 | 7.6 | 7.3 | 100 | 0 | 0 | 0 | 100 | 100 |
| Mar-25 | 1106 | 7.0 | 8.7 | 7.6 | 100 | 0 | 0 | 0 | 100 | 100 |
| Apr-25 | 2875 | 7.1 | 9.0 | 7.5 | 99.9 | 0.1 | 0 | 0 | 100 | 100 |
| May-25 | 2970 | 6.9 | 8.5 | 7.4 | 100 | 0 | 0 | 0 | 100 | 100 |
| Jun-25 | 2880 | 6.8 | 8.3 | 7.4 | 100 | 0 | 0 | 0 | 100 | 100 |

**Table 23.** Gage 01475548 pH Criteria Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % min non-attaining | % max non-attaining | % min attaining | % max attaining |
|---|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | 2972 | 7.0 | 8.3 | 7.5 | 100 | 0 | 0 | 0 | 100 | 100 |
| Aug-24 | 2970 | 6.9 | 8.7 | 7.5 | 100 | 0 | 0 | 0 | 100 | 100 |
| Sep-24 | 2872 | 7.4 | 8.3 | 7.7 | 100 | 0 | 0 | 0 | 100 | 100 |
| Oct-24 | 2968 | 7.6 | 8.4 | 7.9 | 100 | 0 | 0 | 0 | 100 | 100 |
| Nov-24 | 2869 | 7.0 | 8.3 | 7.5 | 100 | 0 | 0 | 0 | 100 | 100 |
| Dec-24 | 1106 | 7.1 | 7.8 | 7.6 | 100 | 0 | 0 | 0 | 100 | 100 |
| Mar-25 | 1191 | 7.1 | 9.2 | 8.1 | 100 | 0 | 0 | 4.5 | 100 | 95.5 |
| Apr-25 | 1399 | 7.1 | 8.8 | 7.7 | 100 | 0 | 0 | 0 | 100 | 100 |
| May-25 | 2435 | 6.9 | 8.7 | 7.5 | 100 | 0 | 0 | 0 | 100 | 100 |
| Jun-25 | 2446 | 7.0 | 8.5 | 7.3 | 100 | 0 | 0 | 0 | 100 | 100 |

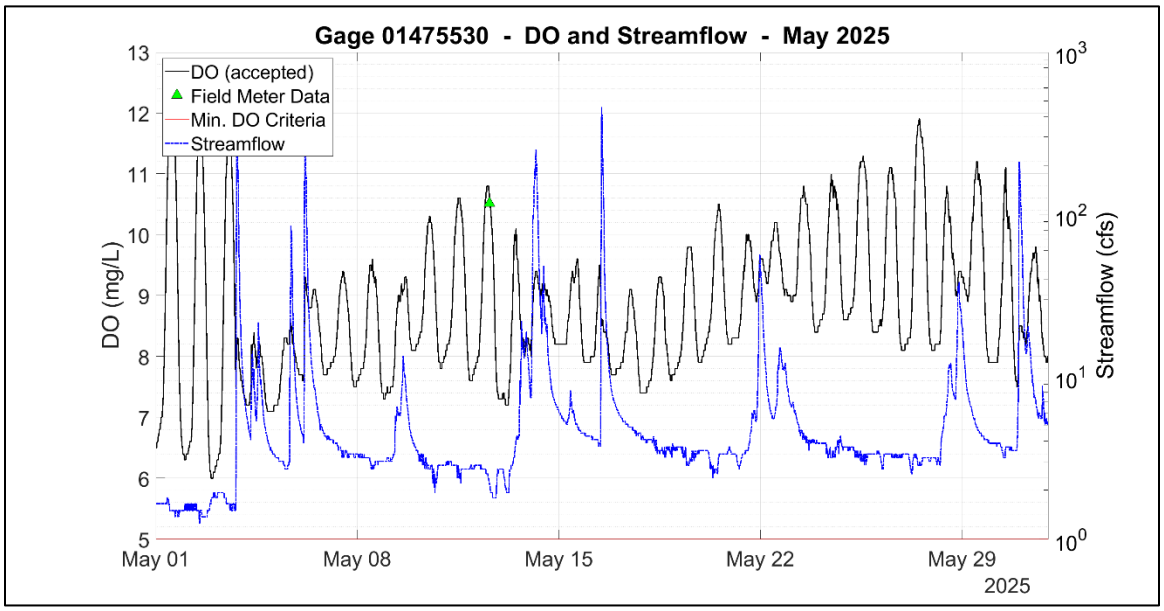



**Figure 19.** Gage 01475530, Dissolved Oxygen and Streamflow, May 2025.

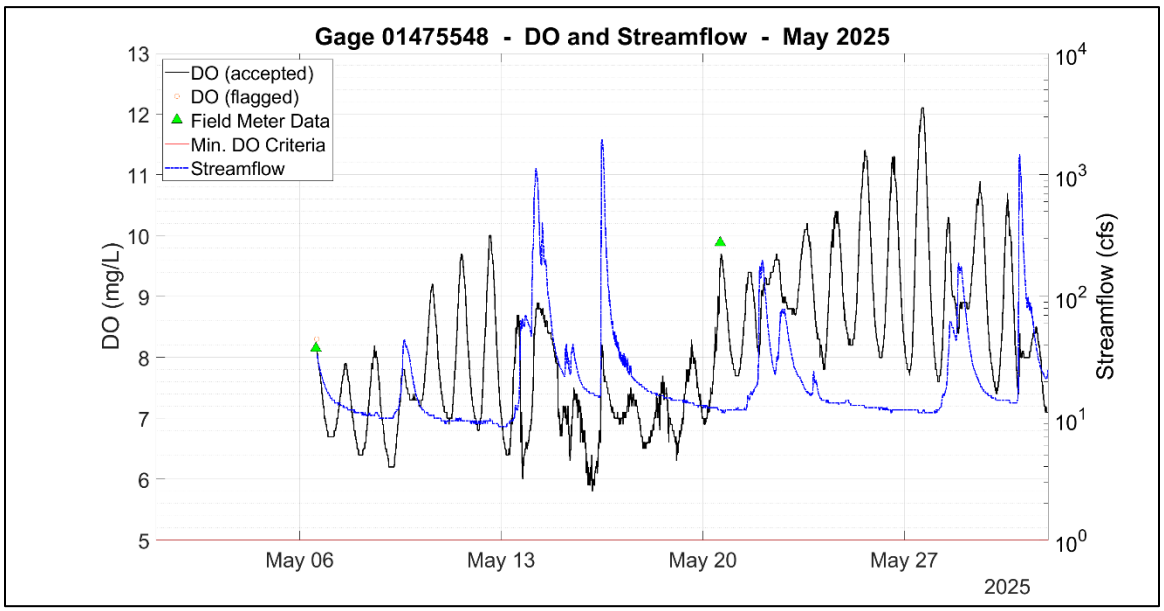



**Figure 20.** Gage 01475548, Dissolved Oxygen and Streamflow, May 2025.

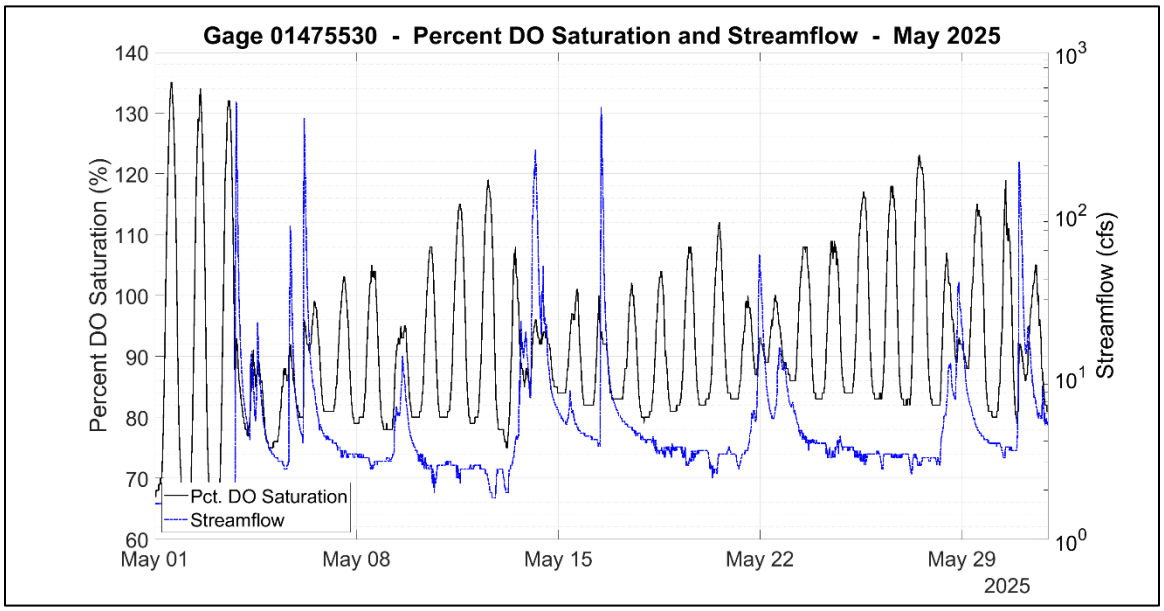



**Figure 21.** Gage 01475530, Percent DO Saturation and Streamflow, May 2025.

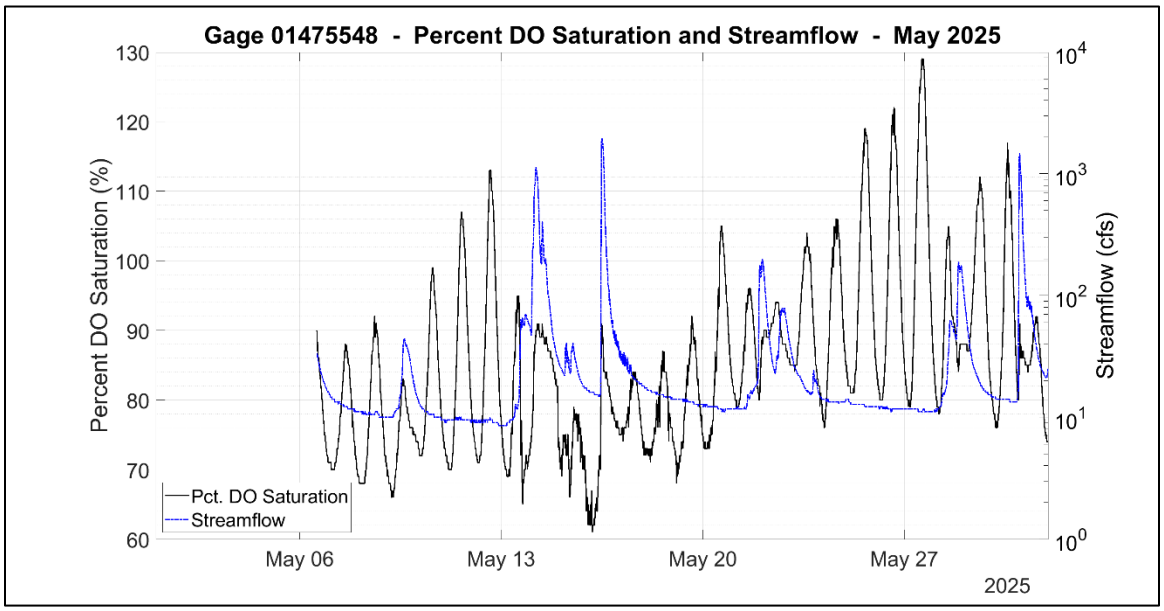



**Figure 22.** Gage 01475548, Percent DO Saturation and Streamflow, May 2025.



**Figure 23.** Gage 01475530, Cobbs Creek at Rte. 1, looking upstream



**Figure 24.** Gage 01475548, Cobbs Creek at Mt. Moriah Cemetery

## Specific Conductance

Specific conductance observations were similar to those observed in Tacony Creek (Tables 24-25). During a typical winter, road salt may have some impact on conductance at both gages. However, the typical pattern of stormwater lowering conductance levels in the stream is well-observed during the storms that occurred in May (Figures 25-26).

**Table 24.** Gage 01475530 Specific Conductance Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data |
|---|---|---|---|---|---|---|
| Jul-24 | 2971 | 89 | 610 | 531.8 | 100 | 0 |
| Aug-24 | 2965 | 107 | 668 | 520.6 | 100 | 0 |
| Sep-24 | 2872 | 532 | 637 | 606.6 | 100 | 0 |
| Oct-24 | 2972 | 580 | 640 | 608.6 | 100 | 0 |
| Nov-24 | 1394 | 412 | 637 | 599.7 | 100 | 0 |
| Mar-25 | 1106 | 141 | 929 | 640.3 | 100 | 0 |
| Apr-25 | 2873 | 132 | 666 | 579.2 | 100 | 0 |
| May-25 | 2971 | 78 | 643 | 492.7 | 100 | 0 |
| Jun-25 | 2880 | 90 | 610 | 533.4 | 100 | 0 |

**Table 25.** Gage 01475548 Specific Conductance Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data |
|---|---|---|---|---|---|---|
| Jul-24 | 2972 | 202 | 707 | 520.8 | 100 | 0 |
| Aug-24 | 2970 | 75 | 730 | 556.4 | 100 | 0 |
| Sep-24 | 2873 | 569 | 753 | 709.5 | 100 | 0 |
| Oct-24 | 2968 | 668 | 756 | 713 | 100 | 0 |
| Nov-24 | 2869 | 191 | 752 | 597.7 | 100 | 0 |
| Dec-24 | 1106 | 186 | 741 | 595 | 100 | 0 |
| Mar-25 | 1191 | 196 | 798 | 655.2 | 100 | 0 |
| Apr-25 | 1399 | 168 | 713 | 510.8 | 99.9 | 0.1 |
| May-25 | 2434 | 82 | 714 | 495 | 100 | 0 |
| Jun-25 | 2446 | 170 | 635 | 489.8 | 100 | 0 |

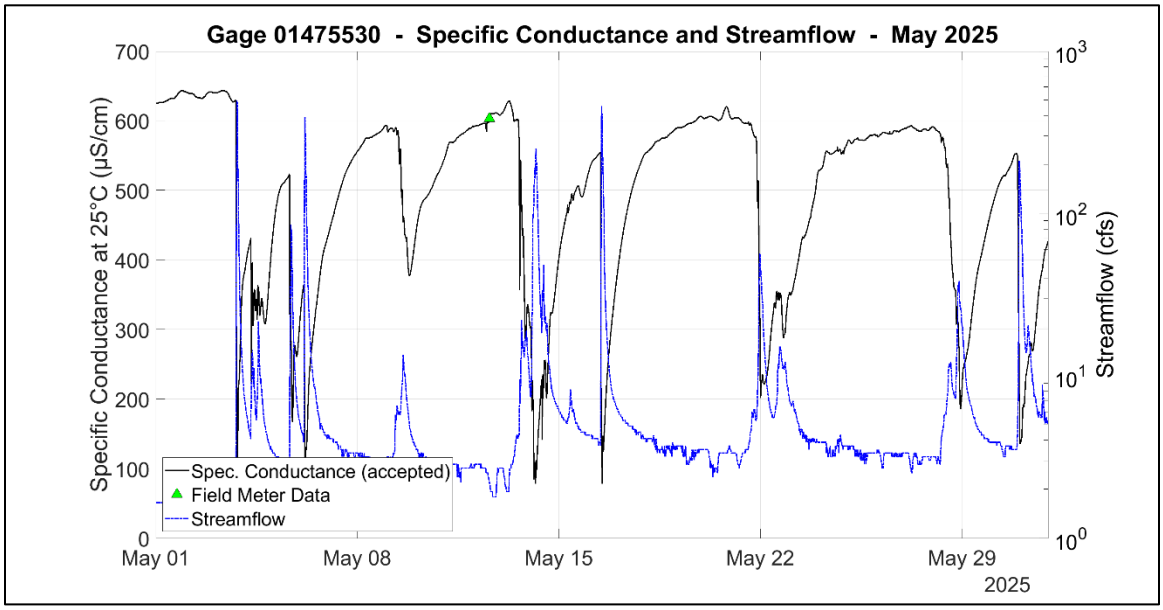



**Figure 25.** Gage 01475530, Specific Conductance and Streamflow, May 2025.

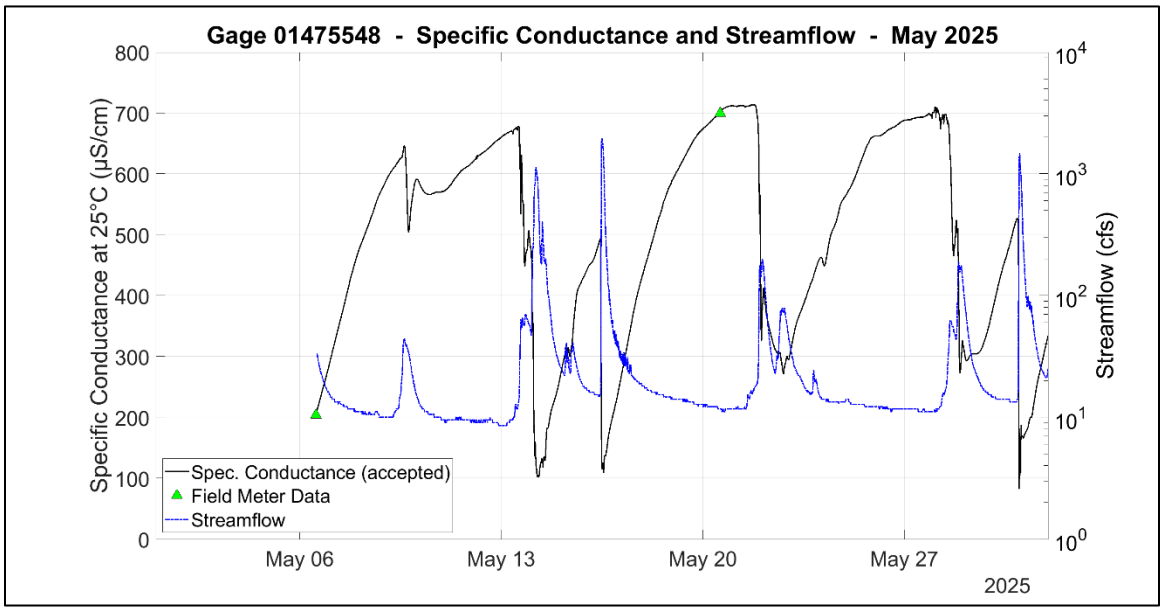



**Figure 26.** Gage 01475548, Specific Conductance and Streamflow, May 2025.

## Temperature

Both Cobbs Creek gages showed that most exceedances of temperature maximum criteria occur during the spring season, when temperature criteria are more stringent (Tables 26-27).

**Table 26.** Gage 01475530 Temperature Summary Results by Maximum Criteria Period

| Designated Use | Date range start | Date range end | % exceedance | % attaining | % flagged data | % accepted data | Min | Max | Mean |
|---|---|---|---|---|---|---|---|---|---|
| WWF | 1-Jul | 31-Jul | 0 | 100 | 0 | 100 | 19.5 | 28.4 | 23.8 |
| WWF | 1-Aug | 15-Aug | 0 | 100 | 0 | 100 | 19.4 | 28.1 | 23.4 |
| WWF | 16-Aug | 30-Aug | 0 | 100 | 0 | 100 | 17.2 | 25.3 | 21.4 |
| WWF | 1-Sep | 15-Sep | 0 | 100 | 0 | 100 | 15 | 23.6 | 19.3 |
| WWF | 16-Sep | 30-Sep | 0 | 100 | 0 | 100 | 17.5 | 21.4 | 19.2 |
| WWF | 1-Oct | 15-Oct | 0 | 100 | 0 | 100 | 11.8 | 19.6 | 16.4 |
| WWF | 16-Oct | 31-Oct | 0 | 100 | 0 | 100 | 9.1 | 15.7 | 12.3 |
| WWF | 1-Nov | 15-Nov | 24.6 | 75.4 | 0 | 100 | 7 | 17 | 12.2 |
| WWF | 16-Nov | 30-Nov | NA | NA | NA | NA | NA | NA | NA |
| WWF | 1-Mar | 31-Mar | 88.6 | 11.4 | 0 | 100 | 6 | 17.9 | 10.8 |
| WWF | 1-Apr | 15-Apr | 49 | 51 | 0 | 100 | 6.4 | 17.6 | 11.3 |
| WWF | 16-Apr | 30-Apr | 66.9 | 33.1 | 0 | 100 | 8.1 | 20 | 15.2 |
| WWF | 1-May | 15-May | 42.6 | 57.4 | 0 | 100 | 13.3 | 21.8 | 17.8 |
| WWF | 16-May | 31-May | 0 | 100 | 0 | 100 | 13 | 21.8 | 16.3 |
| WWF | 1-Jun | 15-Jun | 0 | 100 | 0 | 100 | 14 | 24.3 | 19.2 |
| WWF | 16-Jun | 30-Jun | 0 | 100 | 0 | 100 | 16.7 | 28.6 | 22.1 |

**Table 27.** Gage 01475548 Temperature Summary Results by Maximum Criteria Period

| Designated Use | Date range start | Date range end | % exceedance | % attaining | % flagged data | % accepted data | Min | Max | Mean |
|---|---|---|---|---|---|---|---|---|---|
| WWF | 1-Jul | 31-Jul | 0 | 100 | 0 | 100 | 21.4 | 29.8 | 25.4 |
| WWF | 1-Aug | 15-Aug | 0 | 100 | 0 | 100 | 21.2 | 28.8 | 24.7 |
| WWF | 16-Aug | 30-Aug | 0 | 100 | 0 | 100 | 18.5 | 26.1 | 22.5 |
| WWF | 1-Sep | 15-Sep | 0 | 100 | 0 | 100 | 16.1 | 24.7 | 20.2 |
| WWF | 16-Sep | 30-Sep | 0 | 100 | 0 | 100 | 18.2 | 21.9 | 20.1 |
| WWF | 1-Oct | 15-Oct | 0 | 100 | 0 | 100 | 12.4 | 19.9 | 16.8 |
| WWF | 16-Oct | 31-Oct | 0 | 100 | 0 | 100 | 9.1 | 15.2 | 12.1 |
| WWF | 1-Nov | 15-Nov | 21.3 | 78.7 | 0 | 100 | 7.1 | 16.4 | 12.1 |
| WWF | 16-Nov | 30-Nov | 23.3 | 76.7 | 0.1 | 99.9 | 5.8 | 13.3 | 9.1 |
| WWF | 1-Mar | 31-Mar | 97.4 | 2.6 | 0 | 100 | 7.3 | 15.6 | 11.2 |
| WWF | 1-Apr | 15-Apr | 55.5 | 44.5 | 0 | 100 | 7.3 | 17.9 | 11.9 |
| WWF | 16-Apr | 30-Apr | NA | NA | NA | NA | NA | NA | NA |
| WWF | 1-May | 15-May | 56.2 | 43.8 | 0 | 100 | 14.8 | 21.4 | 18.3 |
| WWF | 16-May | 31-May | 0.1 | 99.9 | 0 | 100 | 13.7 | 22.1 | 17.1 |
| WWF | 1-Jun | 15-Jun | 0 | 100 | 0 | 100 | 15.3 | 25 | 20.5 |
| WWF | 16-Jun | 30-Jun | 3.7 | 96.3 | 0 | 100 | 17.5 | 29.5 | 23.3 |

## Gages in Separate Sewer System Watersheds

Gages in the Pennypack, Wissahickon and Poquessing watersheds are situated in the separate sewer system areas of Philadelphia. Although these sites are not affected by combined sewer overflows, discharge of untreated stormwater runoff from stormwater outfalls can negatively affect water quality.

### Pennypack Creek (Gages 01467042 and 01467048)



#### Dissolved oxygen and pH

Both the upstream (01467042) and downstream (01467048) gages of Pennypack Creek showed pronounced diel fluctuations in dissolved oxygen and pH as a result of algal activity. These patterns are most evident during dry weather periods, when algal growth is able to excel because of abundant sunshine and a lack of storm events that might otherwise scour the algal population. Both upstream and downstream almost always met the minimum dissolved oxygen criterion and never exceeded the 7-day average guideline (Tables 28-29, Figures 27-30).

At both upstream and downstream Pennypack Creek gages, periods of dry weather in warm months are conducive to excessive algal growth. During these periods, algal populations seemed to flourish, with large daily DO amplitudes during April (Figures 31-32).

In April, daily pH fluctuations of more than 1 unit were observed during dry weather (Figures 33-34). In the spring, maximum pH criteria were met at the upstream gage but exceeded several times at the downstream gage, before being lowered by rainfall (Tables 30-31). It would be reasonable to conclude that if not for periodic interruptions of algal activity due to rainfall, these fluctuations and chronic pH criteria exceedance would likely occur through the entire season.

Algal communities in the area of both gages recover quickly after storm events, as seen in Figures 33-34. Prior to a series of small storms occurring in April 2025, both DO and pH

showed the typical pronounced fluctuations indicative of strong algal activity. This pattern diminished with the storms, when much of the algae was likely scoured away and overcast conditions likely inhibited further growth, as indicated by the PAR data at 01467048 for April 2024 (Figure 35). However, within 2-3 days of the conclusion of the rainfall and the return of sunny conditions, fluctuations of DO and pH resumed, indicative of high algal density. This not only demonstrates the resilience of the algal population in this ecosystem, but also a likely abundance of nutrients that allows regrowth to occur so quickly.

**Table 28.** Gage 01467042 Dissolved Oxygen Minimum Criterion Summary Results by Month

| Month | Des. Use | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | TSF | 2971 | 4.5 | 12.4 | 7.8 | 98.1 | 1.9 | 0.9 | 99.1 |
| Aug-24 | TSF | 2974 | 4.7 | 11.6 | 7.9 | 100 | 0 | 0.8 | 99.2 |
| Sep-24 | TSF | 2877 | 5.9 | 11.9 | 8.6 | 100 | 0 | 0 | 100 |
| Oct-24 | TSF | 2969 | 6.6 | 12 | 9.7 | 100 | 0 | 0 | 100 |
| Nov-24 | TSF | 2447 | 5.8 | 13.2 | 9.4 | 94.3 | 5.7 | 0 | 100 |
| Mar-25 | TSF | 2340 | 5.6 | 15.4 | 11.1 | 95.7 | 4.3 | 0 | 100 |
| Apr-25 | TSF | 2871 | 4.8 | 16.3 | 10 | 100 | 0 | 0.2 | 99.8 |
| May-25 | TSF | 2971 | 4.4 | 11.4 | 8 | 100 | 0 | 3.4 | 96.6 |
| Jun-25 | TSF | 2879 | 5.8 | 12.1 | 8.1 | 100 | 0 | 0 | 100 |

**Table 29.** Gage 01467048 Dissolved Oxygen Minimum Criterion Summary Results by Month

| Month | Des. Use | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | TSF | 2970 | 5 | 13.8 | 7.4 | 99.9 | 0.1 | 0 | 100 |
| Aug-24 | TSF | 2976 | 5 | 16.7 | 8.5 | 100 | 0 | 0 | 100 |
| Sep-24 | TSF | 2877 | 5.3 | 12.1 | 8.4 | 100 | 0 | 0 | 100 |
| Oct-24 | TSF | 2971 | 7.2 | 14.6 | 10 | 100 | 0 | 0 | 100 |
| Nov-24 | TSF | 2867 | 2.8 | 14.5 | 9.8 | 100 | 0 | 0.6 | 99.4 |
| Mar-25 | TSF | 1875 | 8.3 | 17.2 | 11.6 | 99.9 | 0.1 | 0 | 100 |
| Apr-25 | TSF | 2865 | 6.3 | 15.3 | 10.2 | 99.9 | 0.1 | 0 | 100 |
| May-25 | TSF | 2975 | 5.9 | 12.6 | 8.7 | 100 | 0 | 0 | 100 |
| Jun-25 | TSF | 2876 | 5.3 | 15.2 | 8.6 | 100 | 0 | 0 | 100 |

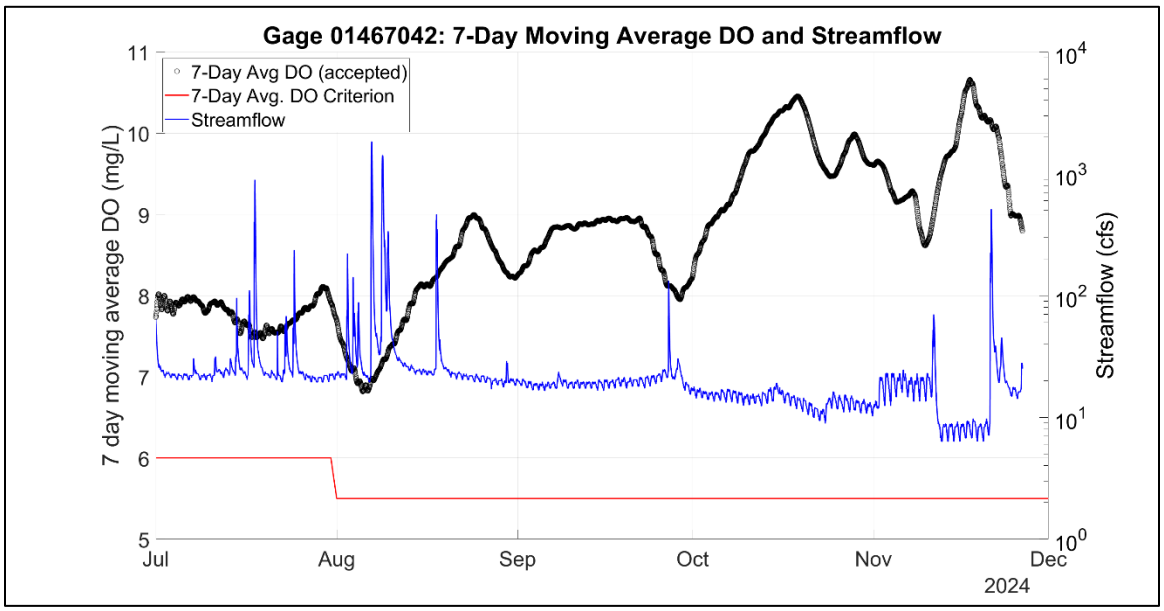



**Figure 27.** Gage 01467042, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Nov 2024.

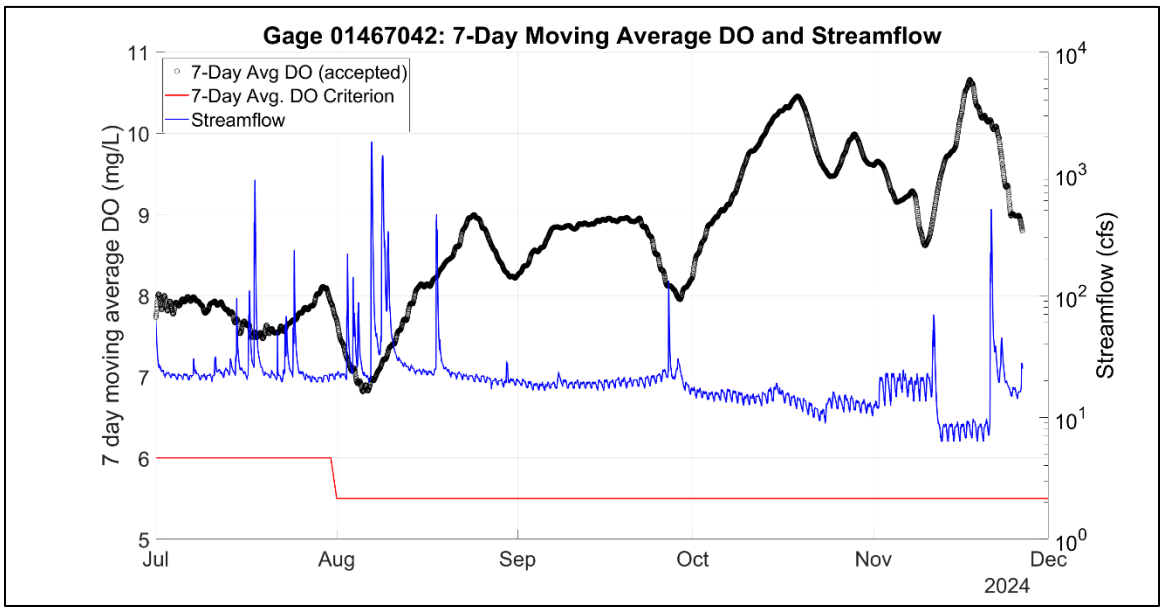



**Figure 28.** Gage 01467042, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2025.

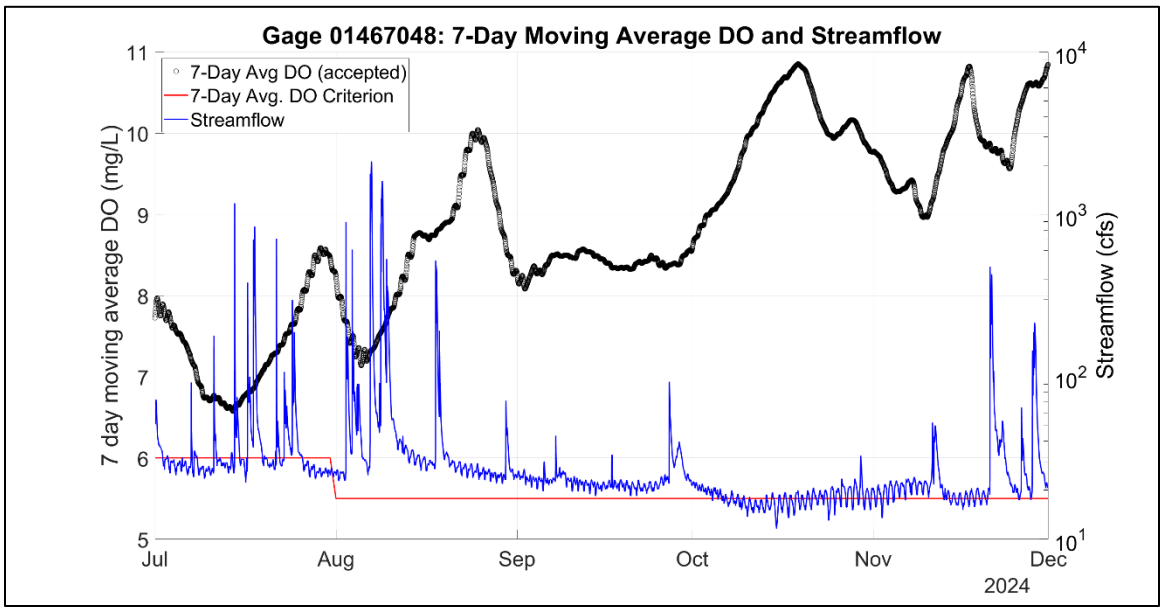



**Figure 29.** Gage 01467048, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Nov 2024.

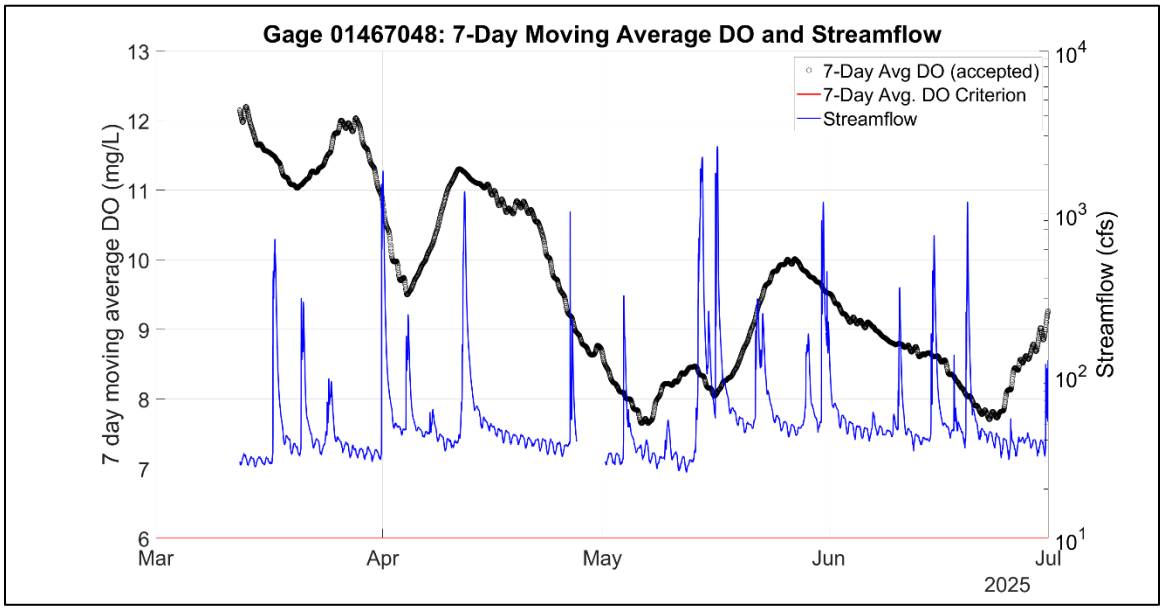



**Figure 30.** Gage 01467048, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2025.

**Table 30.** Gage 01467042 pH Criteria Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % min non-attaining | % max non-attaining | % min attaining | % max attaining |
|---|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | 2968 | 7.0 | 8.6 | 7.7 | 100 | 0 | 0 | 0 | 100 | 100 |
| Aug-24 | 2973 | 7.0 | 8.8 | 7.8 | 100 | 0 | 0 | 0 | 100 | 100 |
| Sep-24 | 2877 | 7.4 | 8.5 | 7.8 | 100 | 0 | 0 | 0 | 100 | 100 |
| Oct-24 | 2969 | 7.5 | 8.4 | 7.8 | 100 | 0 | 0 | 0 | 100 | 100 |
| Nov-24 | 2445 | 7.4 | 8.3 | 7.7 | 100 | 0 | 0 | 0 | 100 | 100 |
| Mar-25 | 2340 | 7.3 | 8.8 | 7.9 | 100 | 0 | 0 | 0 | 100 | 100 |
| Apr-25 | 2871 | 7.1 | 8.8 | 7.6 | 100 | 0 | 0 | 0 | 100 | 100 |
| May-25 | 2971 | 7.0 | 8.0 | 7.5 | 100 | 0 | 0 | 0 | 100 | 100 |
| Jun-25 | 2879 | 7.2 | 8.6 | 7.7 | 100 | 0 | 0 | 0 | 100 | 100 |

**Table 31.** Gage 01467048 pH Criteria Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % min non-attaining | % max non-attaining | % min attaining | % max attaining |
|---|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | 2868 | 2966 | 6.9 | 9.0 | 7.7 | 100 | 0 | 0 | 0 | 100 |
| Aug-24 | 2874 | 2976 | 6.8 | 9.3 | 7.9 | 99.9 | 0.1 | 0 | 5 | 100 |
| Sep-24 | 2768 | 2876 | 7.4 | 8.8 | 7.8 | 100 | 0 | 0 | 0 | 100 |
| Oct-24 | 2868 | 2972 | 7.2 | 8.8 | 7.9 | 100 | 0 | 0 | 0 | 100 |
| Nov-24 | 2775 | 2867 | 6.8 | 8.5 | 7.6 | 100 | 0 | 0 | 0 | 100 |
| Mar-25 | 1819 | 154 | 7.5 | 7.8 | 7.6 | 100 | 0 | 0 | 0 | 100 |
| Apr-25 | 2871 | 1875 | 7.2 | 9.0 | 8.0 | 100 | 0 | 0 | 0 | 100 |
| May-25 | 2876 | 2860 | 7.1 | 9.1 | 7.8 | 100 | 0 | 0 | 1.5 | 100 |
| Jun-25 | 2782 | 2975 | 6.9 | 8.5 | 7.7 | 100 | 0 | 0 | 0 | 100 |

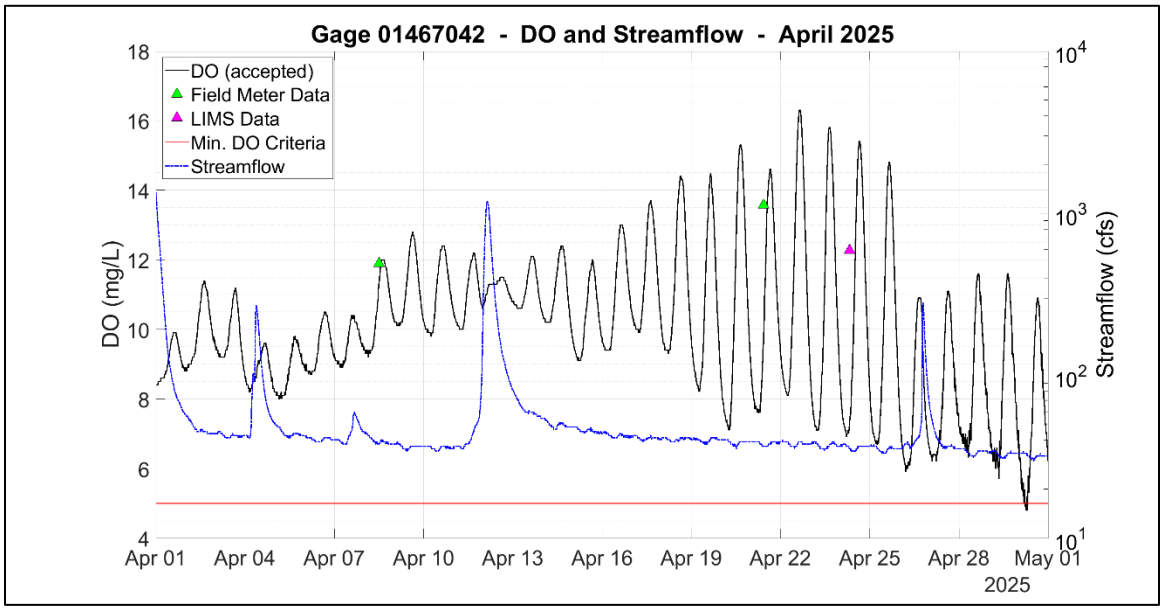



**Figure 31.** Gage 01467042, Dissolved Oxygen and Streamflow, April 2025.

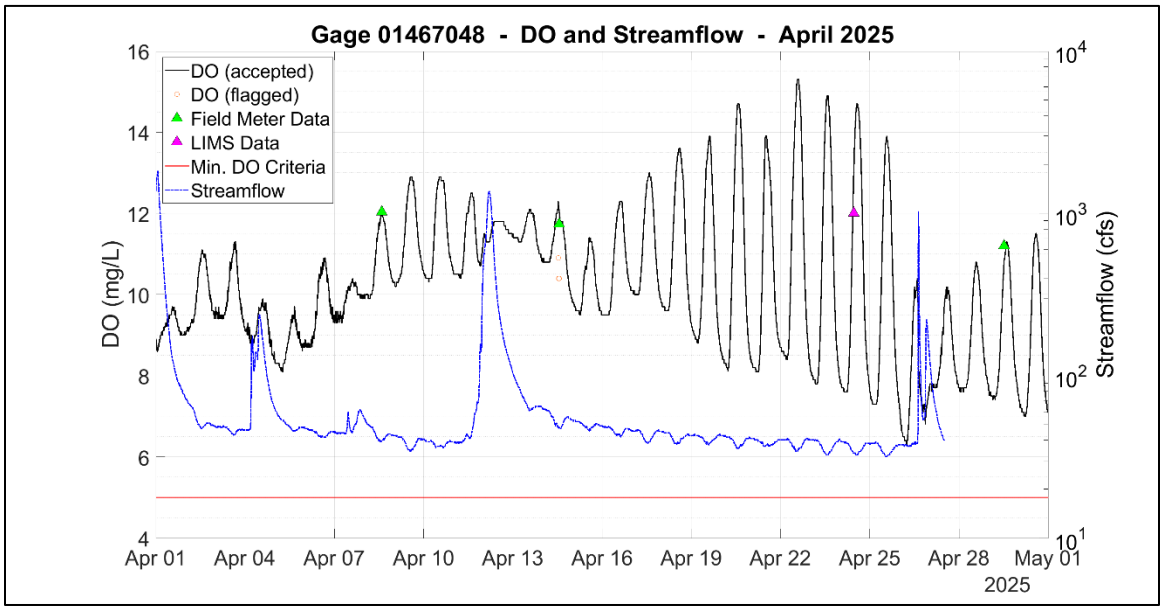



**Figure 32.** Gage 01467048, Dissolved Oxygen and Streamflow, April 2025.

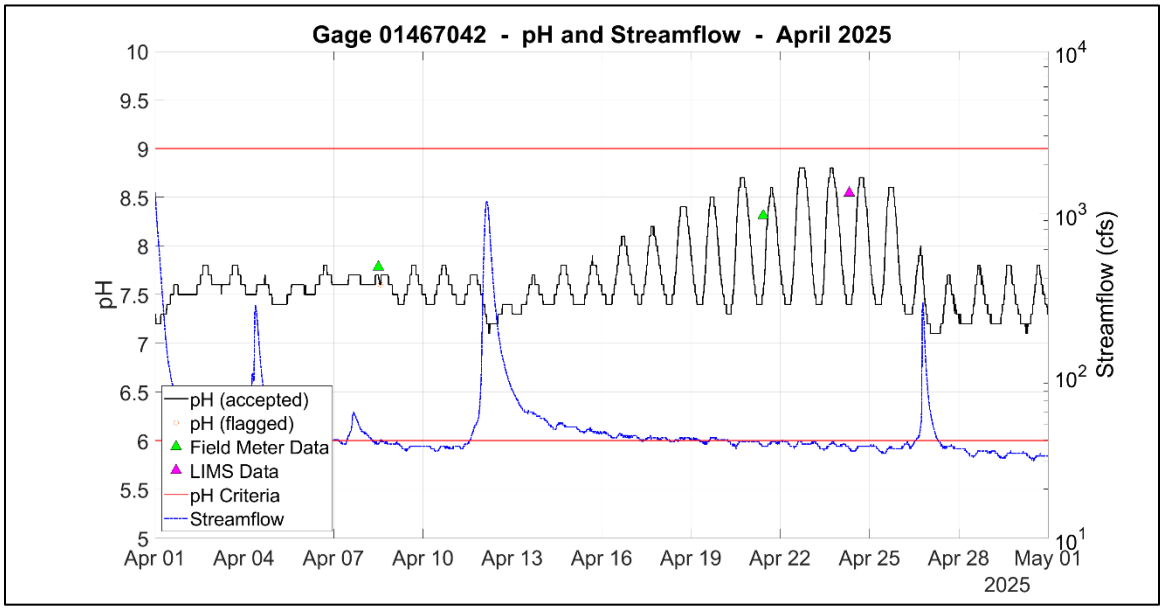



**Figure 33.** Gage 01467042, pH and Streamflow, April 2025.

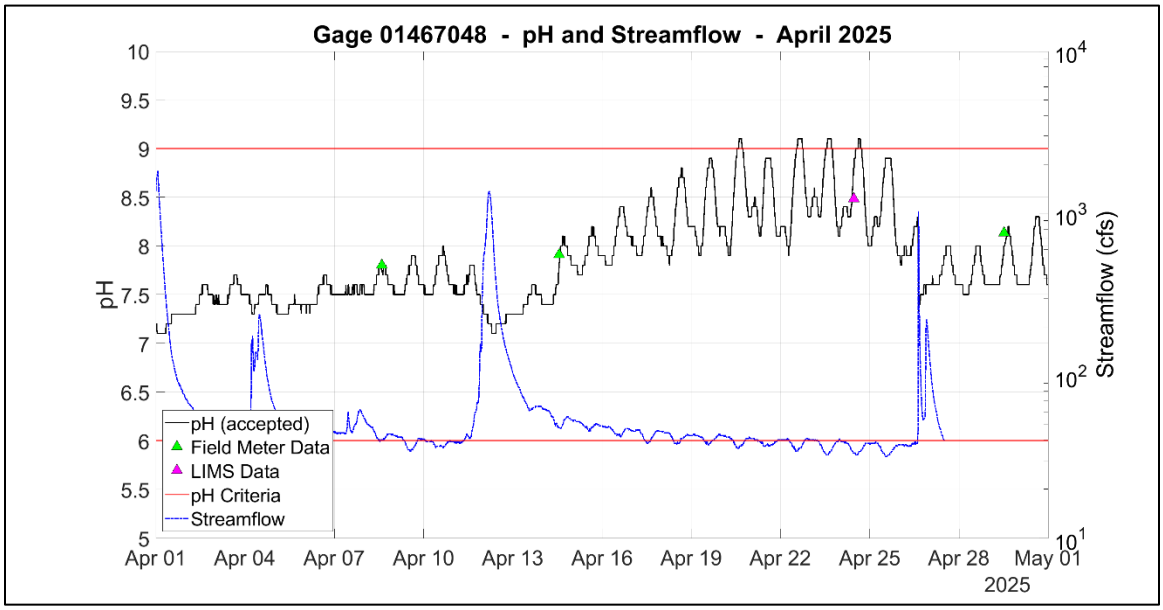



**Figure 34.** Gage 01467048, pH and Streamflow, April 2025.

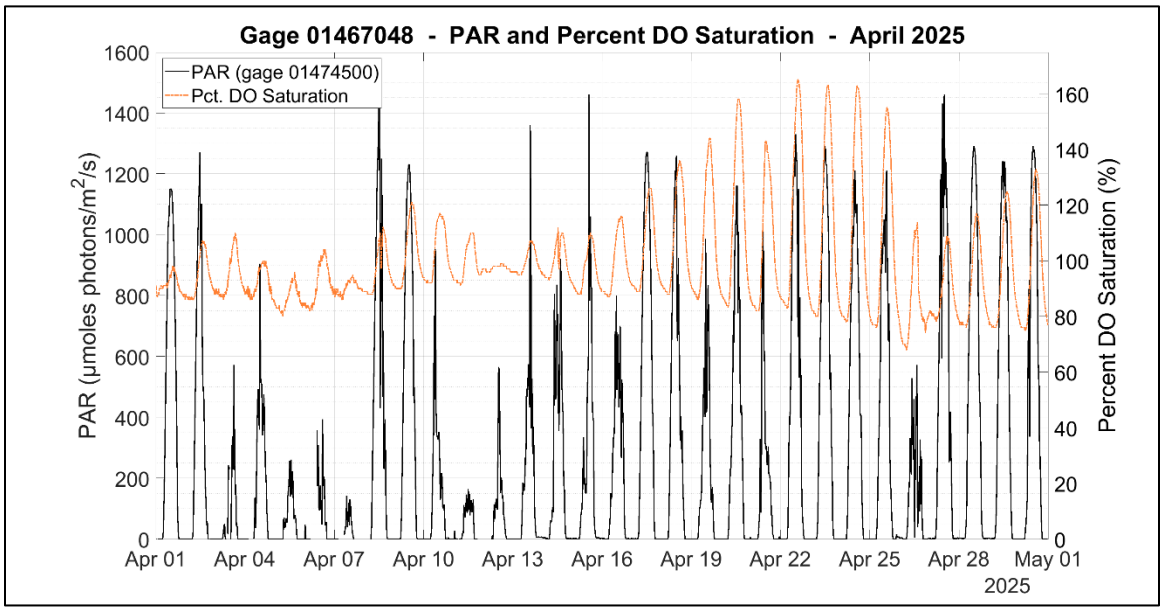



**Figure 35.** Gage 01467048, PAR and Percent Dissolved Oxygen Saturation, April 2025.



**Figure 36.** Gage 01467042, Pennypack Creek at Pine Rd., looking upstream



**Figure 37.** Gage 01467048, Pennypack Creek at Lower Rhawn St. Bridge, looking upstream

### Turbidity

Turbidity data at the Pennypack Creek gages tend to reflect streamflow conditions. When there is high flow (*i.e.,* during and after storms), increases in turbidity are common and expected, as sediment in the creek bed is resuspended and particles present in runoff enter the stream (Figure 38). The downstream gage generally exhibited similar turbidity values throughout the year (Tables 32-33).

Flagged data are often due to periods during the month when sondes report high turbidity values that were corrected after the instrumentation was cleaned. After a storm, optical sensors such as those used to detect dissolved oxygen and turbidity can return inaccurate readings due to the sonde pipe becoming clogged with sediment and other debris. When turbidity readings come down after a cleaning, it is typical procedure to flag data back to the end of a storm, when the sonde pipe likely became clogged and did not reflect actual conditions in the stream.

**Table 32.** Gage 01467042, Turbidity Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % above max. guideline | % below max. guideline |
|---|---|---|---|---|---|---|---|---|
| Jul-24 | 2971 | 0.3 | 576 | 2.3 | 100 | 0 | 9.1 | 90.9 |
| Aug-24 | 2972 | 0.3 | 237 | 4.1 | 100 | 0 | 21.4 | 78.6 |
| Sep-24 | 2877 | 0.3 | 15.2 | 0.9 | 94.2 | 5.8 | 2.4 | 97.6 |
| Oct-24 | 2966 | 0.3 | 8.3 | 0.8 | 95.6 | 4.4 | 0 | 100 |
| Nov-24 | 2445 | 0.3 | 136 | 1.9 | 100 | 0 | 12.3 | 87.7 |
| Mar-25 | 2339 | 0.9 | 253 | 3.6 | 100 | 0 | 18.8 | 81.2 |
| Apr-25 | 2871 | 0.7 | 152 | 3.8 | 100 | 0 | 19.4 | 80.6 |
| May-25 | 2970 | 0.7 | 215 | 8.2 | 100 | 0 | 39.1 | 60.9 |
| Jun-25 | 2879 | 0.7 | 238 | 4.4 | 100 | 0 | 18.8 | 81.2 |

**Table 33.** Gage 01467048, Turbidity Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % above max. guideline | % below max. guideline |
|---|---|---|---|---|---|---|---|---|
| Jul-24 | 2970 | 0.3 | 303 | 3.4 | 100 | 0 | 15.5 | 84.5 |
| Aug-24 | 2975 | 0.3 | 285 | 5.3 | 100 | 0 | 22.1 | 77.9 |
| Sep-24 | 2877 | 0.3 | 40.7 | 1 | 100 | 0 | 2.1 | 97.9 |
| Oct-24 | 2972 | 0.3 | 9.8 | 0.6 | 100 | 0 | 0.7 | 99.3 |
| Nov-24 | 2871 | 0.3 | 93.1 | 1.8 | 100 | 0 | 15.6 | 84.4 |
| Mar-25 | 1875 | 1 | 261 | 4.5 | 100 | 0 | 28.9 | 71.1 |
| Apr-25 | 2865 | 0.6 | 694 | 6.7 | 100 | 0 | 43.5 | 56.5 |
| May-25 | 2746 | 1.3 | 610 | 14.7 | 100 | 0 | 63.4 | 36.6 |
| Jun-25 | 2444 | 0.6 | 372 | 4.8 | 100 | 0 | 25.1 | 74.9 |

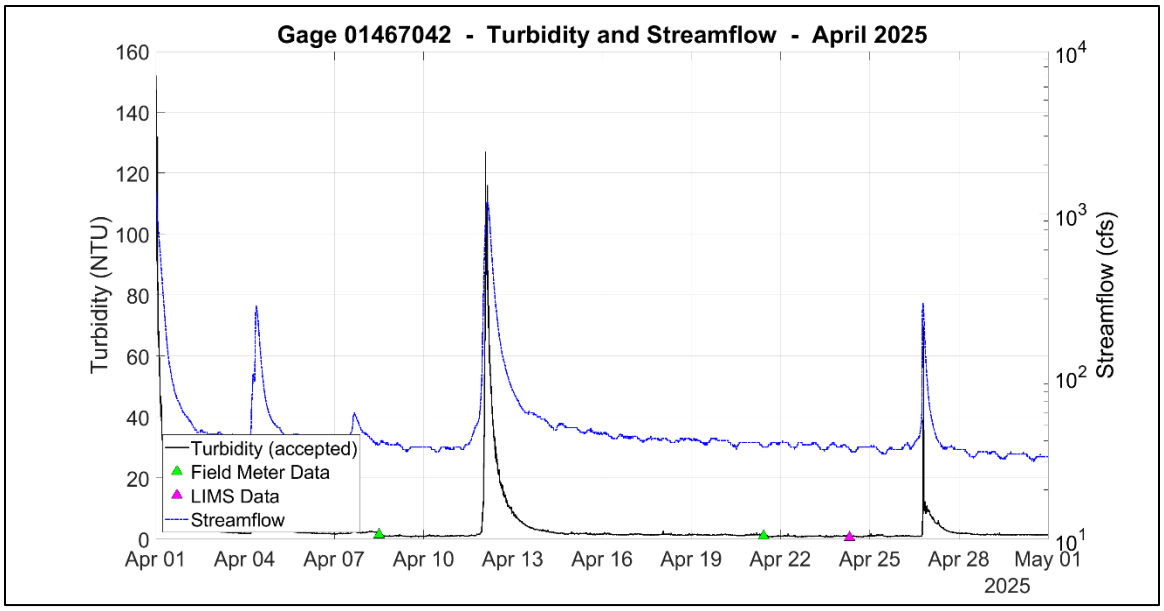



**Figure 38.** Gage 01467042, Turbidity and Streamflow, April 2025.

## Specific Conductance

Specific conductance data were similar to other Philadelphia area streams. Elevated mean and maximum conductance values at both gages may be evidence of the effects of stormwater runoff and snowmelt containing road salt during a typical year (Tables 34-35).

**Table 34.** Gage 01467042 Specific Conductance Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data |
|---|---|---|---|---|---|---|
| Jul-24 | 2966 | 205 | 806 | 592.5 | 100 | 0 |
| Aug-24 | 2969 | 109 | 739 | 555 | 100 | 0 |
| Sep-24 | 2877 | 542 | 912 | 754.4 | 100 | 0 |
| Oct-24 | 2968 | 631 | 853 | 792.3 | 100 | 0 |
| Nov-24 | 2332 | 294 | 911 | 743.5 | 100 | 0 |
| Mar-25 | 2268 | 315 | 1260 | 871.9 | 100 | 0 |
| Apr-25 | 2871 | 211 | 799 | 689.5 | 100 | 0 |
| May-25 | 2970 | 114 | 770 | 595.1 | 100 | 0 |
| Jun-25 | 2879 | 210 | 708 | 596.8 | 100 | 0 |

**Table 35.** Gage 01467048 Specific Conductance Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data |
|---|---|---|---|---|---|---|
| Jul-24 | 2681 | 63 | 706 | 514.6 | 100 | 0 |
| Aug-24 | 2972 | 98 | 714 | 493.5 | 100 | 0 |
| Sep-24 | 2877 | 535 | 849 | 732 | 100 | 0 |
| Oct-24 | 2967 | 579 | 833 | 760.3 | 100 | 0 |
| Nov-24 | 2864 | 269 | 875 | 663.1 | 100 | 0 |
| Mar-25 | 1874 | 243 | 967 | 764.6 | 100 | 0 |
| Apr-25 | 2860 | 211 | 763 | 632.9 | 100 | 0 |
| May-25 | 2975 | 133 | 749 | 561.7 | 100 | 0 |
| Jun-25 | 2875 | 222 | 719 | 559.1 | 100 | 0 |

## Temperature

Temperature data showed variable attainment of maximum temperature criteria (Tables 36-37). Spring and early summer months are always subject to major air temperature fluctuations, and reliably predicting average stream temperatures during these periods is difficult at best. Maximum criteria for the summer months, for example, do not take into account natural summer temperature peaks. Above normal air temperatures are the likely cause of stream temperature exceedance rates in Spring 2025 (Figures 40-41).

**Table 36.** Gage 01467042 Temperature Summary Results by Maximum Criteria Period

| Designated Use | Date range start | Date range end | % exceedance | % attaining | % flagged data | % accepted data | Min | Max | Mean |
|---|---|---|---|---|---|---|---|---|---|
| TSF | 1-Jul | 31-Jul | 89.4 | 10.6 | 0 | 100 | 21 | 28.9 | 25.2 |
| TSF | 1-Aug | 15-Aug | 6.6 | 93.4 | 0 | 100 | 20.5 | 28.1 | 24.3 |
| TSF | 16-Aug | 30-Aug | 0 | 100 | 0 | 100 | 17.9 | 25.3 | 22 |
| TSF | 1-Sep | 15-Sep | 0 | 100 | 0 | 100 | 16.4 | 23.5 | 19.7 |
| TSF | 16-Sep | 30-Sep | 0 | 100 | 0 | 100 | 17.9 | 21.3 | 19.6 |
| TSF | 1-Oct | 15-Oct | 0 | 100 | 0 | 100 | 12.2 | 19.1 | 16.5 |
| TSF | 16-Oct | 31-Oct | 0 | 100 | 0 | 100 | 8.9 | 15 | 12 |
| TSF | 1-Nov | 15-Nov | 21.8 | 78.2 | 0 | 100 | 6.6 | 16.6 | 12 |
| TSF | 16-Nov | 30-Nov | 15.8 | 84.2 | 0 | 100 | 7.2 | 12.9 | 9.2 |
| TSF | 1-Mar | 31-Mar | 89.1 | 10.9 | 0 | 100 | 5.5 | 16.2 | 10.4 |
| TSF | 1-Apr | 15-Apr | 50 | 50 | 0 | 100 | 7 | 16.7 | 11.4 |
| TSF | 16-Apr | 30-Apr | 76 | 24 | 0 | 100 | 8.9 | 20 | 15.7 |
| TSF | 1-May | 15-May | 63.4 | 36.6 | 0 | 100 | 14.5 | 21.8 | 18.4 |
| TSF | 16-May | 31-May | 4 | 96 | 0 | 100 | 13.5 | 21.1 | 16.7 |
| TSF | 1-Jun | 15-Jun | 27.7 | 72.3 | 0 | 100 | 14.9 | 24 | 19.7 |
| TSF | 16-Jun | 30-Jun | 59.8 | 40.2 | 0 | 100 | 16.8 | 28.4 | 22.6 |

**Table 37. Gage** 01467048, Temperature Summary Results by Maximum Criteria Period

| Designated Use | Date range start | Date range end | % exceedance | % attaining | % flagged data | % accepted data | Min | Max | Mean |
|---|---|---|---|---|---|---|---|---|---|
| TSF | 1-Jul | 31-Jul | 93.7 | 6.3 | 0.1 | 99.9 | 22.2 | 31.4 | 26 |
| TSF | 1-Aug | 15-Aug | 14.4 | 85.6 | 0 | 100 | 21.5 | 30.2 | 24.9 |
| TSF | 16-Aug | 30-Aug | 0 | 100 | 0 | 100 | 18.7 | 27.5 | 22.8 |
| TSF | 1-Sep | 15-Sep | 0 | 100 | 0 | 100 | 16.6 | 25.4 | 20.5 |
| TSF | 16-Sep | 30-Sep | 0 | 100 | 0 | 100 | 18.3 | 22.8 | 20.1 |
| TSF | 1-Oct | 15-Oct | 0 | 100 | 0 | 100 | 12.2 | 20.5 | 17.1 |
| TSF | 16-Oct | 31-Oct | 0 | 100 | 0 | 100 | 8.8 | 15.8 | 12.4 |
| TSF | 1-Nov | 15-Nov | 20.8 | 79.2 | 0 | 100 | 7 | 16.6 | 12 |
| TSF | 16-Nov | 30-Nov | 14.8 | 85.2 | 0 | 100 | 6 | 12.4 | 8.8 |
| TSF | 1-Mar | 31-Mar | 99.6 | 0.4 | 0 | 100 | 8 | 15.8 | 11.2 |
| TSF | 1-Apr | 15-Apr | 54.1 | 45.9 | 0 | 100 | 7.2 | 16.4 | 11.6 |
| TSF | 16-Apr | 30-Apr | 82.4 | 17.6 | 0 | 100 | 9.6 | 20.8 | 16.2 |
| TSF | 1-May | 15-May | 81.4 | 18.6 | 0 | 100 | 15.6 | 23.1 | 19.2 |
| TSF | 16-May | 31-May | 9.1 | 90.9 | 0 | 100 | 13.6 | 21.5 | 17.2 |
| TSF | 1-Jun | 15-Jun | 47.3 | 52.7 | 0 | 100 | 15.7 | 24.6 | 20.6 |
| TSF | 16-Jun | 30-Jun | 73.9 | 26.1 | 0 | 100 | 17.2 | 29.9 | 23.7 |

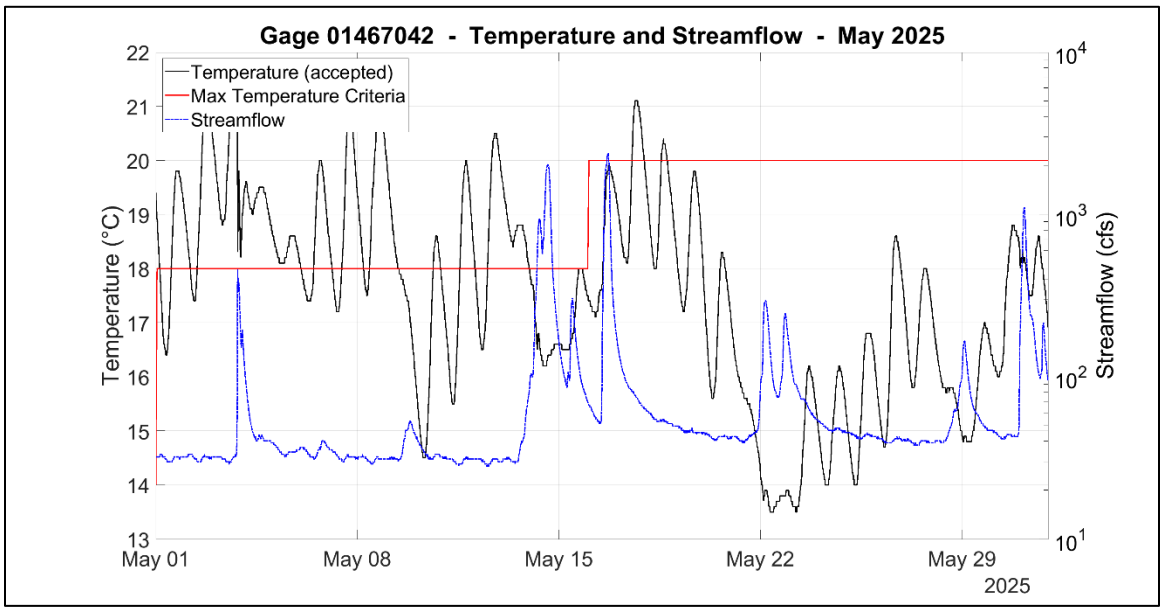



**Figure 39.** Gage 01467042, Temperature and Streamflow, May 2025.

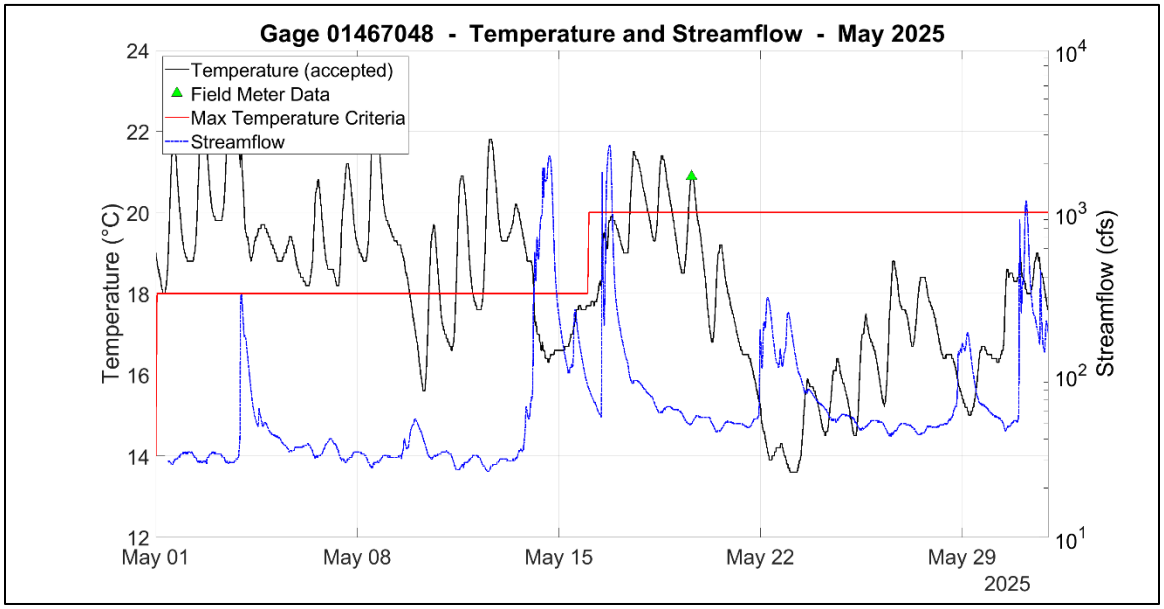
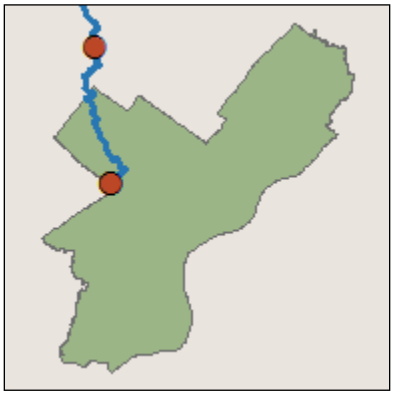



**Figure 40.** Gage 01467048, Temperature and Streamflow, May 2025.

## Wissahickon Creek (Gages 01473900 and 01474000)



### Dissolved oxygen and pH

Dissolved oxygen and pH data collected from the upstream (01473900) and downstream (01474000) Wissahickon Creek gages also show signs of strong algal activity in the form of diel fluctuations (Tables 38-39; 40-41). Although these two sites never exceeded the 7-day average guideline for dissolved oxygen (Figures 41-44), the upper gage (01473900) exhibits some of the most dramatic diel fluctuations of any of the Philadelphia USGS gage sites. In April 2025, dissolved oxygen can be observed to fluctuate by approximately 10 mg/L in a single day/night period (Figure 45), with pH experiencing significant swings at the same time (Figure 46). The pH maxima were exceeded in spring, a direct result of algal activity (Table 40).

**Table 38.** Gage 01473900 Dissolved Oxygen Minimum Criterion Summary Results by Month

| Month | Des. Use | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | TSF | 2972 | 1.1 | 12.7 | 6.5 | 99.9 | 0.1 | 24.6 | 75.4 |
| Aug-24 | TSF | 2436 | 1.1 | 13.9 | 7.7 | 100 | 0 | 11.5 | 88.5 |
| Sep-24 | TSF | 2877 | 4.6 | 12.8 | 8 | 100 | 0 | 0.9 | 99.1 |
| Oct-24 | TSF | 2914 | 5.4 | 12.1 | 8.7 | 100 | 0 | 0 | 100 |
| Nov-24 | TSF | 2861 | 3.7 | 13.2 | 9.1 | 100 | 0 | 3.1 | 96.9 |
| Mar-25 | TSF | 1769 | 5.1 | 20.5 | 11.1 | 100 | 0 | 0 | 100 |
| Apr-25 | TSF | 2859 | 2.7 | 16.2 | 9.5 | 100 | 0 | 2 | 98 |
| May-25 | TSF | 2677 | 4.1 | 14.2 | 8.3 | 100 | 0 | 1.4 | 98.6 |
| Jun-25 | TSF | 2873 | 4.7 | 13.1 | 8 | 100 | 0 | 1.4 | 98.6 |

**Table 39.** Gage 01474000 Dissolved Oxygen Minimum Criterion Summary Results by Month

| Month | Des. Use | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | TSF | 1484 | 5.8 | 12 | 8.1 | 100 | 0 | 0 | 100 |
| Aug-24 | TSF | 1484 | 5.9 | 12.1 | 8.5 | 100 | 0 | 0 | 100 |
| Sep-24 | TSF | 1435 | 7.1 | 11.7 | 9 | 100 | 0 | 0 | 100 |
| Oct-24 | TSF | 1484 | 8 | 12.5 | 10 | 100 | 0 | 0 | 100 |
| Nov-24 | TSF | 1434 | 8.7 | 12.8 | 10.7 | 100 | 0 | 0 | 100 |
| Mar-25 | TSF | 979 | 8.8 | 15.6 | 11.6 | 100 | 0 | 0 | 100 |
| Apr-25 | TSF | 1433 | 7 | 14.9 | 10.5 | 100 | 0 | 0 | 100 |
| May-25 | TSF | 1488 | 6.4 | 11.9 | 9 | 100 | 0 | 0 | 100 |
| Jun-25 | TSF | 1440 | 6.2 | 12.2 | 8.7 | 100 | 0 | 0 | 100 |

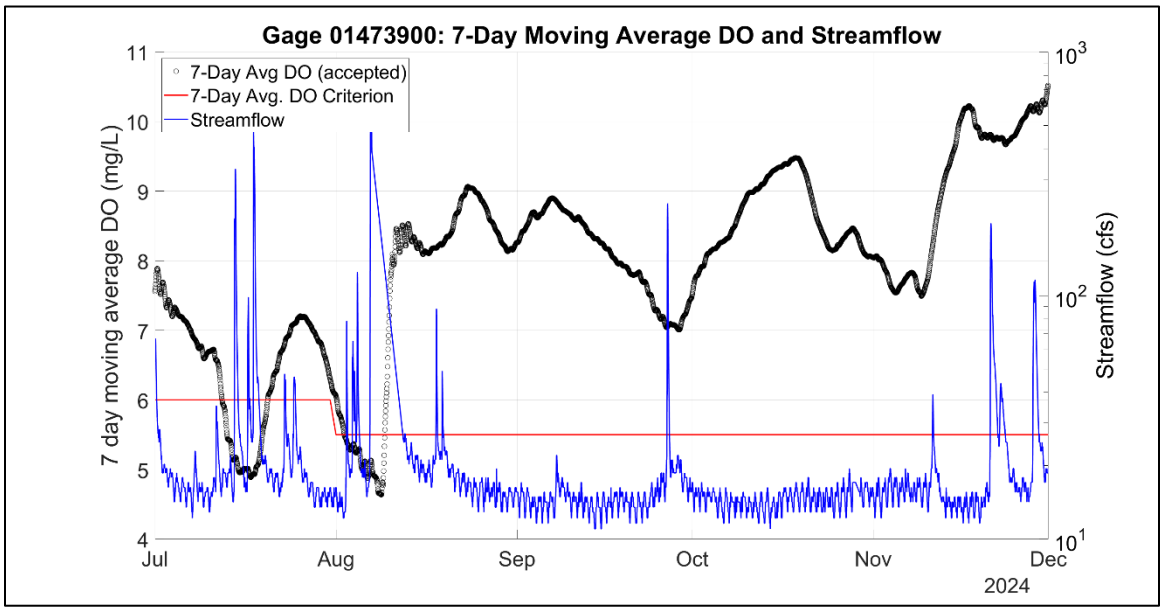



**Figure 41.** Gage 01473900, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Nov 2024.

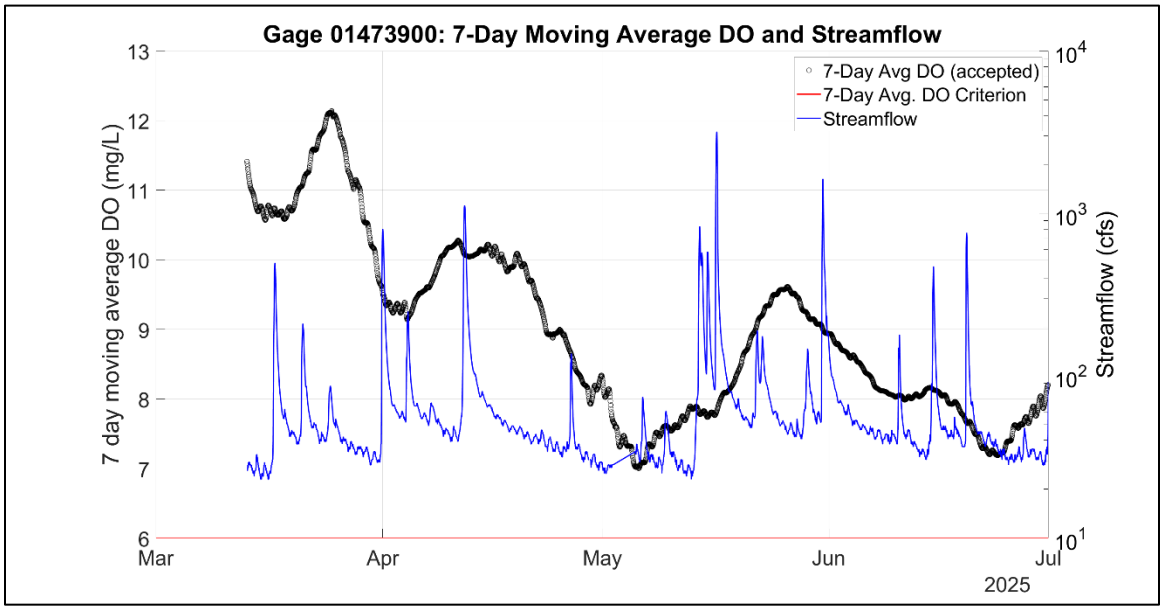



**Figure 42.** Gage 01473900, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2025.

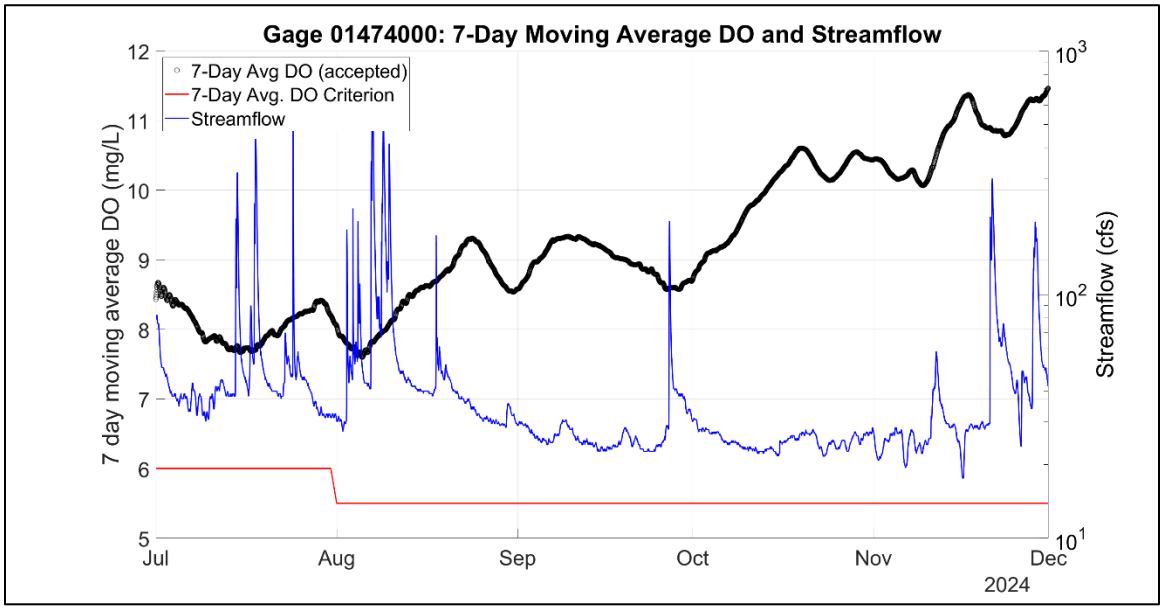



**Figure 43.** Gage 01474000, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Nov 2024.

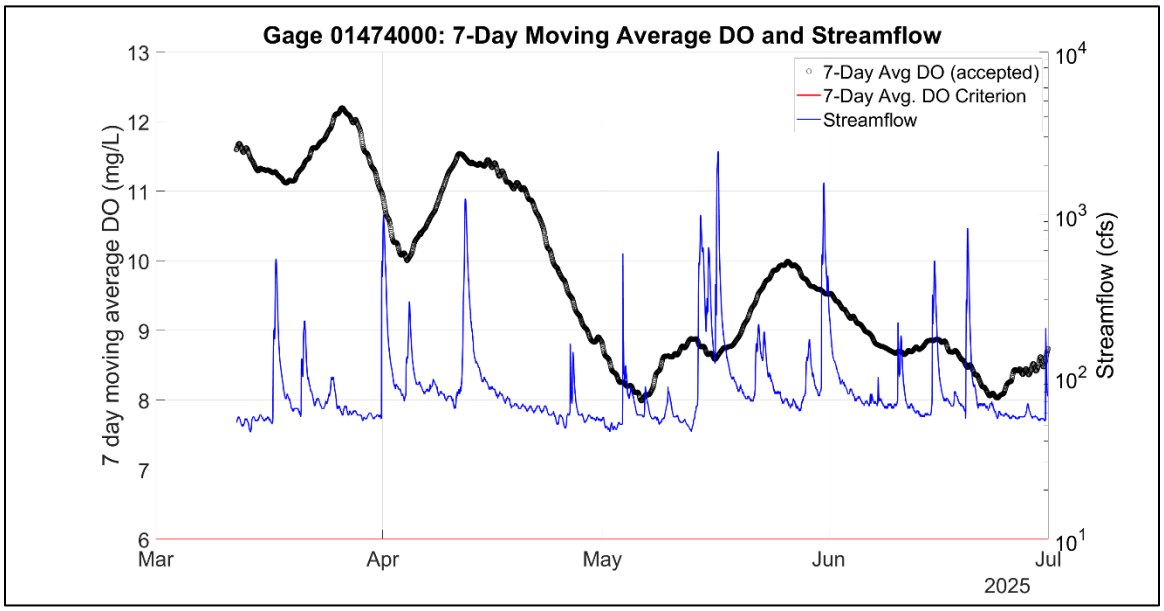



**Figure 44.** Gage 01474000, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2025.

**Table 40.** Gage 01473900 pH Criteria Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % min non-attaining | % max non-attaining | % min attaining | % max attaining |
|---|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | 2972 | 7.2 | 8.6 | 7.8 | 100 | 0 | 0 | 0 | 100 | 100 |
| Aug-24 | 2435 | 7.3 | 8.6 | 7.8 | 100 | 0 | 0 | 0 | 100 | 100 |
| Sep-24 | 2877 | 7.3 | 8.4 | 7.9 | 100 | 0 | 0 | 0 | 100 | 100 |
| Oct-24 | 2907 | 7.5 | 8.3 | 7.8 | 100 | 0 | 0 | 0 | 100 | 100 |
| Nov-24 | 2859 | 7.4 | 8.2 | 7.7 | 100 | 0 | 0 | 0 | 100 | 100 |
| Mar-25 | 1770 | 7.3 | 9.2 | 8.1 | 99.8 | 0.2 | 0 | 4 | 100 | 96 |
| Apr-25 | 2859 | 7.0 | 8.8 | 7.8 | 100 | 0 | 0 | 0 | 100 | 100 |
| May-25 | 2675 | 7.0 | 8.6 | 7.6 | 100 | 0 | 0 | 0 | 100 | 100 |
| Jun-25 | 2874 | 7.2 | 8.6 | 7.7 | 100 | 0 | 0 | 0 | 100 | 100 |

**Table 41.** Gage 01474000 pH Criteria Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % min non-attaining | % max non-attaining | % min attaining | % max attaining |
|---|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | 1484 | 7.6 | 8.8 | 8.3 | 100 | 0 | 0 | 0 | 100 | 100 |
| Aug-24 | 1483 | 7.7 | 8.7 | 8.3 | 100 | 0 | 0 | 0 | 100 | 100 |
| Sep-24 | 1435 | 7.7 | 8.5 | 8.2 | 100 | 0 | 0 | 0 | 100 | 100 |
| Oct-24 | 1484 | 8 | 8.4 | 8.2 | 100 | 0 | 0 | 0 | 100 | 100 |
| Nov-24 | 1434 | 7.8 | 8.4 | 8.1 | 100 | 0 | 0 | 0 | 100 | 100 |
| Mar-25 | 979 | 7.7 | 9.2 | 8.4 | 100 | 0 | 0 | 4.5 | 100 | 95.5 |
| Apr-25 | 1433 | 7.5 | 9.0 | 8.2 | 100 | 0 | 0 | 0 | 100 | 100 |
| May-25 | 1488 | 7.2 | 8.6 | 8.0 | 100 | 0 | 0 | 0 | 100 | 100 |
| Jun-25 | 1440 | 7.5 | 8.8 | 8.1 | 100 | 0 | 0 | 0 | 100 | 100 |

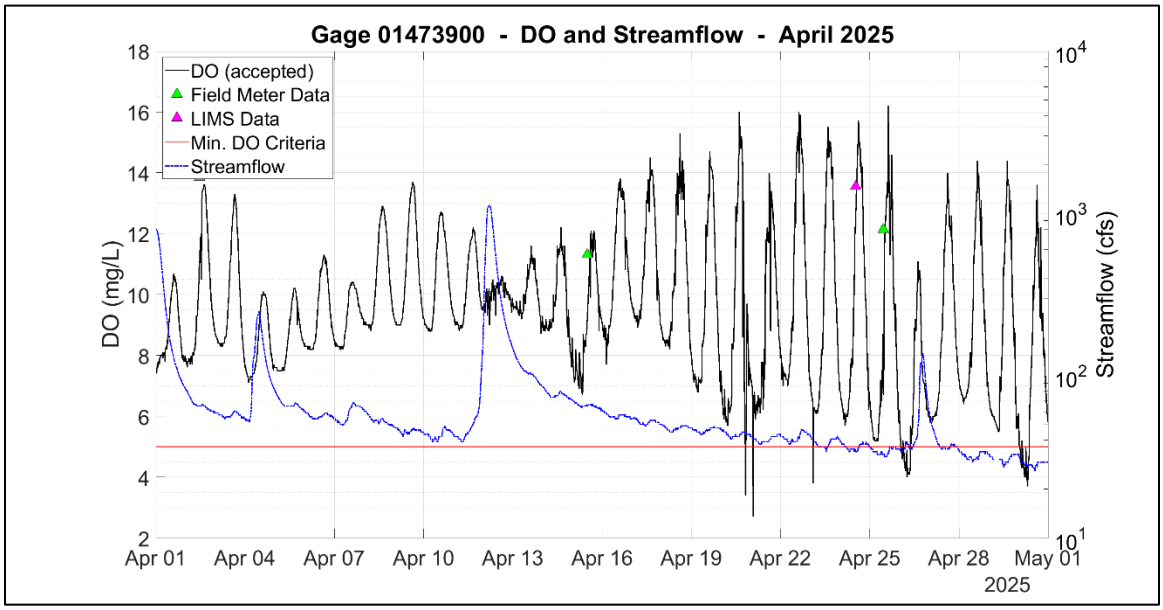



**Figure 45.** Gage 01473900, Dissolved Oxygen and Streamflow, April 2025.

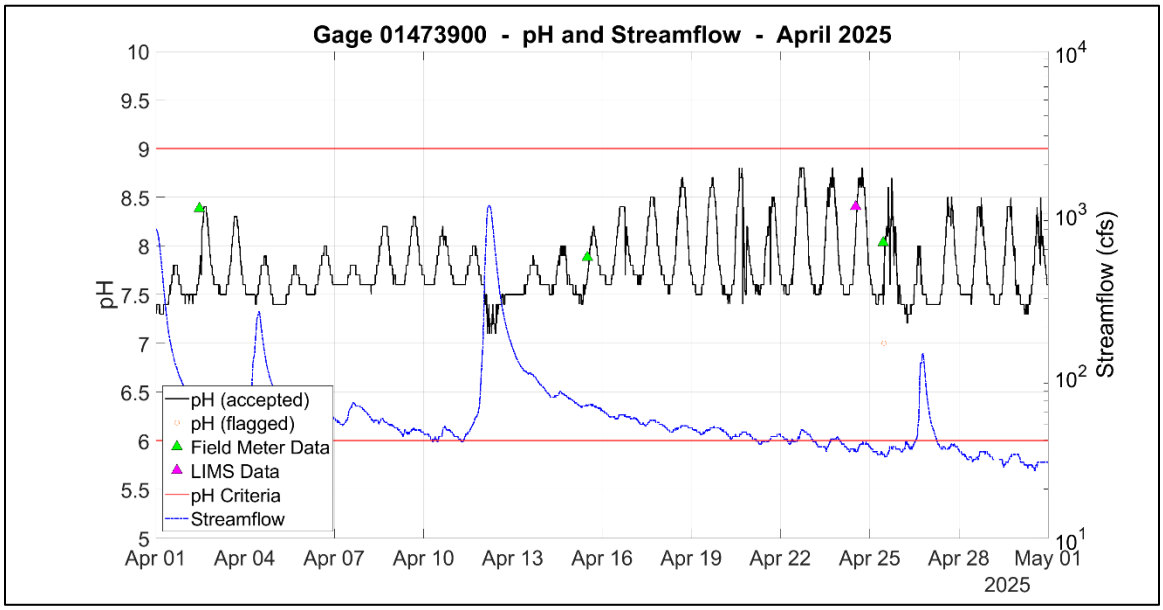



**Figure 46.** Gage 01473900, pH and Streamflow, April 2025.



**Figure 47.** Gage 01473900, Wissahickon Creek at Ft. Washington, looking downstream



**Figure 48.** Gage 01474000, Wissahickon Creek at mouth, looking downstream

## Turbidity

Turbidity in the Wissahickon, as with most of Philadelphia's streams, increases drastically with increased flow from rainfall (Tables 42-43, Figure 49). It is possible that these spikes represent a temporarily fouled sensor (i.e., sediment or debris obscures the optical probe for turbidity), but the general rule in QAQC procedures is not to flag turbidity spikes that recede to normal levels on their own. If the sensor remains fouled after a storm or a field check confirms aberrant values, the data is flagged.

**Table 42.** Gage 01473900 Turbidity Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % above max. guideline | % below max. guideline |
|---|---|---|---|---|---|---|---|---|
| Jul-24 | 2972 | 0.4 | 943 | 10.7 | 95.5 | 4.5 | 76.5 | 23.5 |
| Aug-24 | 2434 | 0.3 | 324 | 6 | 98.5 | 1.5 | 22.5 | 77.5 |
| Sep-24 | 2877 | 0.3 | 36.5 | 1.5 | 100 | 0 | 6.2 | 93.8 |
| Oct-24 | 2910 | 0.4 | 8.3 | 1.4 | 100 | 0 | 9.5 | 90.5 |
| Nov-24 | 2861 | 0.3 | 29.7 | 1.3 | 100 | 0 | 7.5 | 92.5 |
| Mar-25 | 1770 | 0.3 | 103 | 4.1 | 100 | 0 | 36.7 | 63.3 |
| Apr-25 | 2855 | 1 | 145 | 6.5 | 100 | 0 | 51.1 | 48.9 |
| May-25 | 2936 | 0.3 | 700 | 9.4 | 100 | 0 | 73.4 | 26.6 |
| Jun-25 | 2880 | 0.3 | 180 | 5.3 | 100 | 0 | 54.9 | 45.1 |

**Table 43.** Gage 01474000 Turbidity Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % above max. guideline | % below max. guideline |
|---|---|---|---|---|---|---|---|---|
| Jul-24 | 1478 | 0.3 | 91.4 | 1.9 | 100 | 0 | 11.6 | 88.4 |
| Aug-24 | 1489 | 0.3 | 90.8 | 3.3 | 100 | 0 | 20.2 | 79.8 |
| Sep-24 | 1443 | 0.3 | 8.3 | 0.5 | 100 | 0 | 0.8 | 99.2 |
| Oct-24 | 1484 | 0.3 | 0.8 | 0.4 | 100 | 0 | 0 | 100 |
| Nov-24 | 1432 | 0.3 | 52.7 | 1.1 | 100 | 0 | 7.7 | 92.3 |
| Mar-25 | 979 | 0.5 | 89.4 | 2.5 | 100 | 0 | 15.5 | 84.5 |
| Apr-25 | 1434 | 0.3 | 135 | 4.6 | 100 | 0 | 17.5 | 82.5 |
| May-25 | 1488 | 0.3 | 393 | 9.1 | 100 | 0 | 21.3 | 78.7 |
| Jun-25 | 1440 | 0.4 | 85.2 | 3.2 | 100 | 0 | 16.7 | 83.3 |

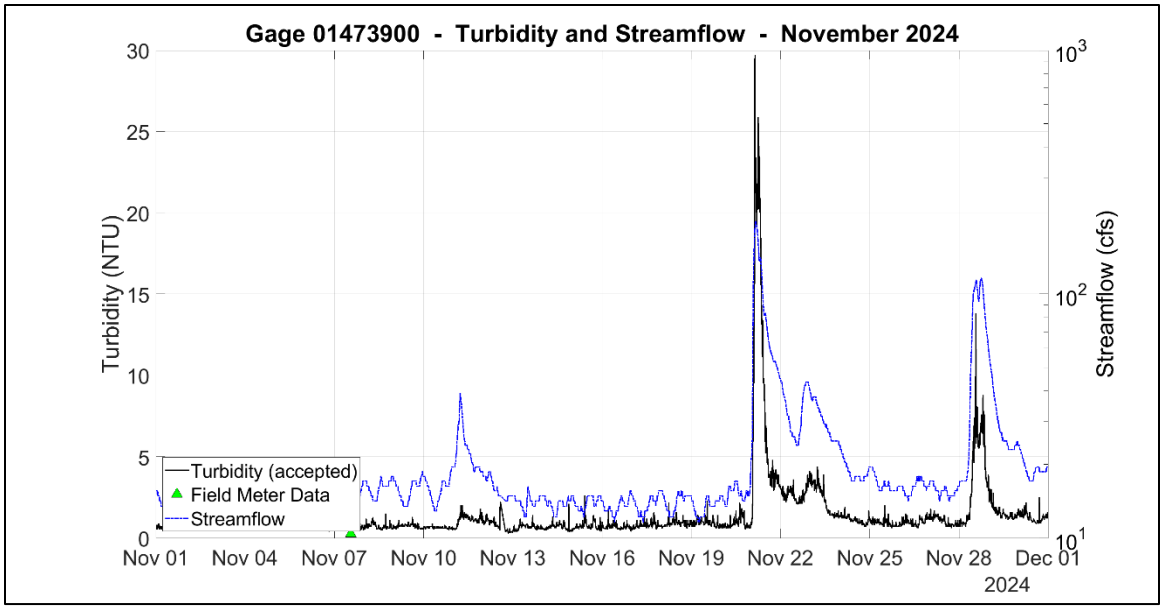



**Figure 49.** Gage 01473900, Turbidity and Streamflow, November 2024.

## Specific Conductance

Specific conductance data at the Wissahickon Creek gage sites generally follow the established pattern in other Philadelphia streams: Runoff from rain events dilutes the stream and decreases conductivity (Figure 50; Tables 44-45). However, a reversal in this trend sometimes occurs during winter storms and during snowmelt, when it is presumed that the application of road salt (sodium chloride) prior to the storm washes into Wissahickon Creek and causes conductivity to increase in conjunction with streamflow.

**Table 44.** Gage 01473900 Specific Conductance Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data |
|---|---|---|---|---|---|---|
| Jul-24 | 2972 | 236 | 1040 | 802.9 | 99.9 | 0.1 |
| Aug-24 | 2435 | 192 | 1070 | 872.4 | 100 | 0 |
| Sep-24 | 2872 | 365 | 1130 | 1033.7 | 100 | 0 |
| Oct-24 | 2908 | 985 | 1240 | 1107 | 100 | 0 |
| Nov-24 | 2859 | 387 | 1240 | 1001.3 | 100 | 0 |
| Mar-25 | 1767 | 397 | 1360 | 1147.3 | 100 | 0 |
| Apr-25 | 2857 | 324 | 1050 | 899.5 | 100 | 0 |
| May-25 | 2962 | 156 | 1210 | 815 | 100 | 0 |
| Jun-25 | 2874 | 259 | 936 | 781 | 100 | 0 |

**Table 45.** Gage 01474000 Specific Conductance Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data |
|---|---|---|---|---|---|---|
| Jul-24 | 1484 | 237 | 871 | 709 | 100 | 0 |
| Aug-24 | 1484 | 221 | 870 | 693.4 | 100 | 0 |
| Sep-24 | 1435 | 542 | 965 | 876.8 | 100 | 0 |
| Oct-24 | 1484 | 787 | 1000 | 914.4 | 100 | 0 |
| Nov-24 | 1434 | 440 | 1000 | 807.4 | 100 | 0 |
| Mar-25 | 979 | 482 | 1220 | 973.9 | 100 | 0 |
| Apr-25 | 1433 | 326 | 933 | 804.3 | 100 | 0 |
| May-25 | 1488 | 191 | 949 | 723.5 | 100 | 0 |
| Jun-25 | 1440 | 303 | 853 | 699 | 100 | 0 |

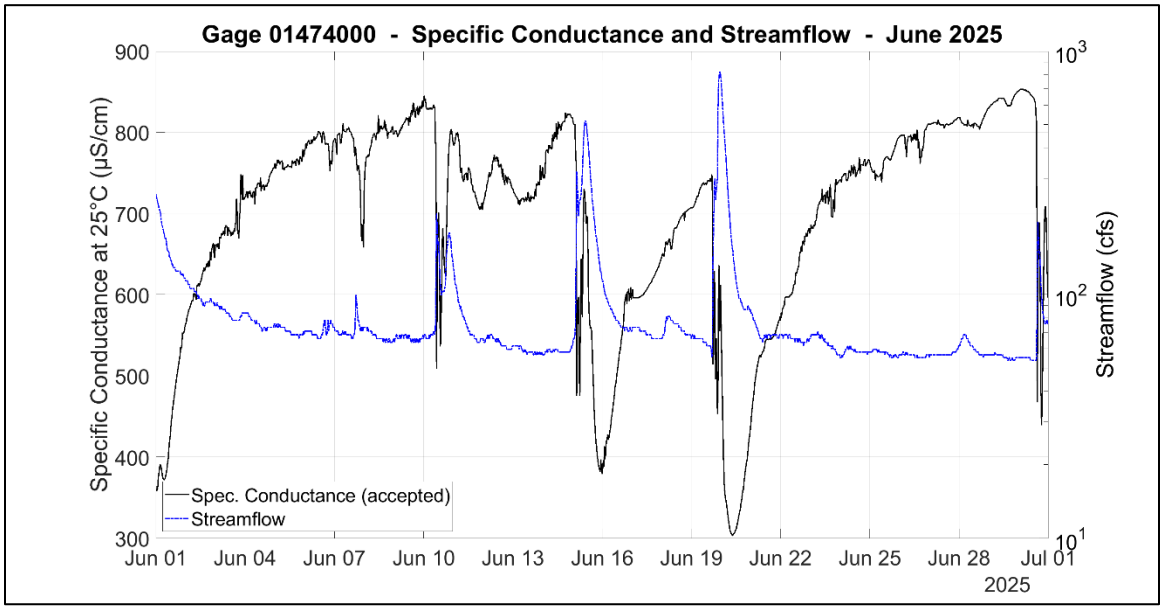



**Figure 50.** Gage 01474000, Specific Conductance and Streamflow, June 2025.

## Temperature

Temperature trends and exceedance rates in Wissahickon Creek Watershed were similar to those observed in Pennypack Creek, with frequent exceedances during the spring in conjunction with higher ambient air temperatures (Tables 46-47, Figures 51-52).

**Table 46.** Gage 01473900 Temperature Summary Results by Month by Maximum Criteria Period

| Designated Use | Date range start | Date range end | % exceedance | % attaining | % flagged data | % accepted data | Min | Max | Mean |
|---|---|---|---|---|---|---|---|---|---|
| TSF | 1-Jul | 31-Jul | 83.9 | 16.1 | 0 | 100 | 20.7 | 28.6 | 24.8 |
| TSF | 1-Aug | 15-Aug | 7.6 | 92.4 | 0 | 100 | 20.3 | 27.7 | 24.6 |
| TSF | 16-Aug | 30-Aug | 0 | 100 | 0 | 100 | 17.7 | 26 | 22.1 |
| TSF | 1-Sep | 15-Sep | 0 | 100 | 0 | 100 | 15.9 | 24.2 | 19.9 |
| TSF | 16-Sep | 30-Sep | 0 | 100 | 0 | 100 | 18.5 | 22 | 20.1 |
| TSF | 1-Oct | 15-Oct | 0 | 100 | 0 | 100 | 12.4 | 20.4 | 17.1 |
| TSF | 16-Oct | 31-Oct | 0 | 100 | 0 | 100 | 9.3 | 16.4 | 12.8 |
| TSF | 1-Nov | 15-Nov | 36 | 64 | 0 | 100 | 7.2 | 18 | 12.7 |
| TSF | 16-Nov | 30-Nov | 37.1 | 62.9 | 0 | 100 | 6.8 | 13.1 | 9.8 |
| TSF | 1-Mar | 31-Mar | 97.3 | 2.7 | 0 | 100 | 7.1 | 21.4 | 11.1 |
| TSF | 1-Apr | 15-Apr | 48.8 | 51.2 | 0 | 100 | 7 | 16.2 | 11.4 |
| TSF | 16-Apr | 30-Apr | 75 | 25 | 0.1 | 99.9 | 9.1 | 21.6 | 15.5 |
| TSF | 1-May | 15-May | 57.3 | 42.7 | 0 | 100 | 14.4 | 21.9 | 18.2 |
| TSF | 16-May | 31-May | 1.3 | 98.7 | 0 | 100 | 13.6 | 20.4 | 16.5 |
| TSF | 1-Jun | 15-Jun | 21.6 | 78.4 | 0 | 100 | 14.7 | 24 | 19.5 |
| TSF | 16-Jun | 30-Jun | 52.3 | 47.7 | 0 | 100 | 16.9 | 28.3 | 22.2 |

**Table 47.** Gage 01474000 Temperature Summary Results by Month by Maximum Criteria Period

| Designated Use | Date range start | Date range end | % exceedance | % attaining | % flagged data | % accepted data | Min | Max | Mean |
|---|---|---|---|---|---|---|---|---|---|
| TSF | 1-Jul | 31-Jul | 86.5 | 13.5 | 0 | 100 | 21.1 | 28.3 | 24.7 |
| TSF | 1-Aug | 15-Aug | 0 | 100 | 0 | 100 | 20.5 | 26.9 | 23.7 |
| TSF | 16-Aug | 30-Aug | 0 | 100 | 0 | 100 | 18.1 | 24.3 | 21.5 |
| TSF | 1-Sep | 15-Sep | 0 | 100 | 0 | 100 | 16.4 | 23 | 19.3 |
| TSF | 16-Sep | 30-Sep | 0 | 100 | 0 | 100 | 18.1 | 20.6 | 19.2 |
| TSF | 1-Oct | 15-Oct | 0 | 100 | 0 | 100 | 12.7 | 18.7 | 16.2 |
| TSF | 16-Oct | 31-Oct | 0 | 100 | 0 | 100 | 9.1 | 14.2 | 11.5 |
| TSF | 1-Nov | 15-Nov | 2 | 98 | 0 | 100 | 7.4 | 14.4 | 11.3 |
| TSF | 16-Nov | 30-Nov | 11.1 | 88.9 | 0 | 100 | 6.8 | 11.6 | 8.5 |
| TSF | 1-Mar | 31-Mar | 99.9 | 0.1 | 0 | 100 | 8 | 14.3 | 10.8 |
| TSF | 1-Apr | 15-Apr | 54.4 | 45.6 | 0 | 100 | 7.4 | 16.2 | 11.5 |
| TSF | 16-Apr | 30-Apr | 77 | 23 | 0 | 100 | 9.9 | 19.5 | 15.6 |
| TSF | 1-May | 15-May | 73 | 27 | 0 | 100 | 15.6 | 21.6 | 18.7 |
| TSF | 16-May | 31-May | 4.2 | 95.8 | 0 | 100 | 13.7 | 20.9 | 16.8 |
| TSF | 1-Jun | 15-Jun | 33 | 67 | 0 | 100 | 15.6 | 23.5 | 19.9 |
| TSF | 16-Jun | 30-Jun | 68.2 | 31.8 | 0 | 100 | 17.1 | 28.1 | 22.6 |

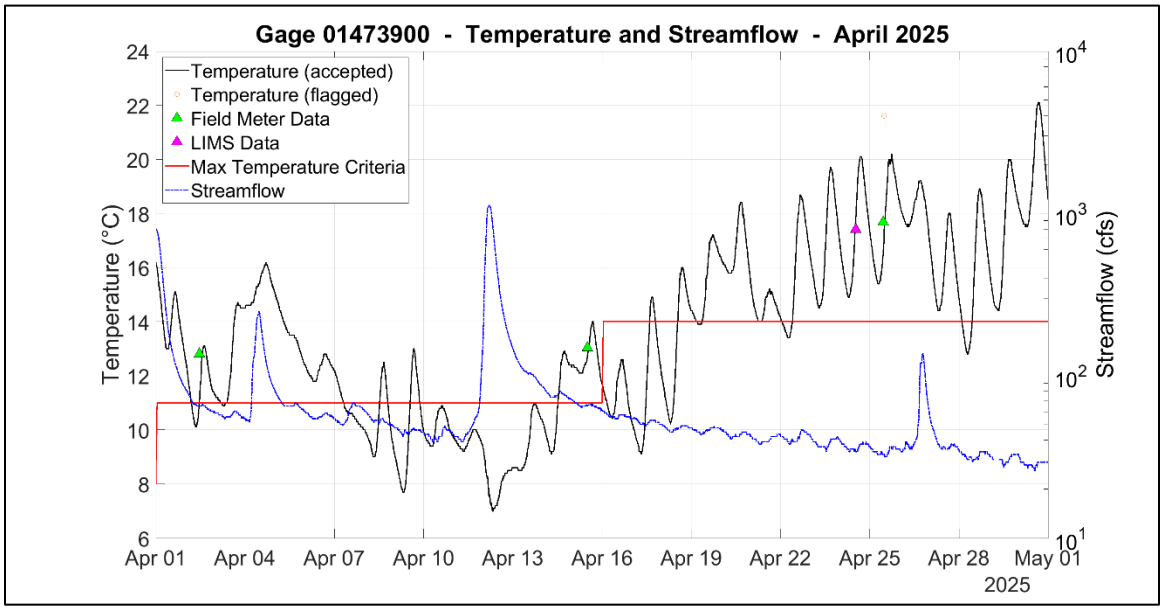



**Figure 51.** Gage 01473900, Temperature and Streamflow, April 2025.

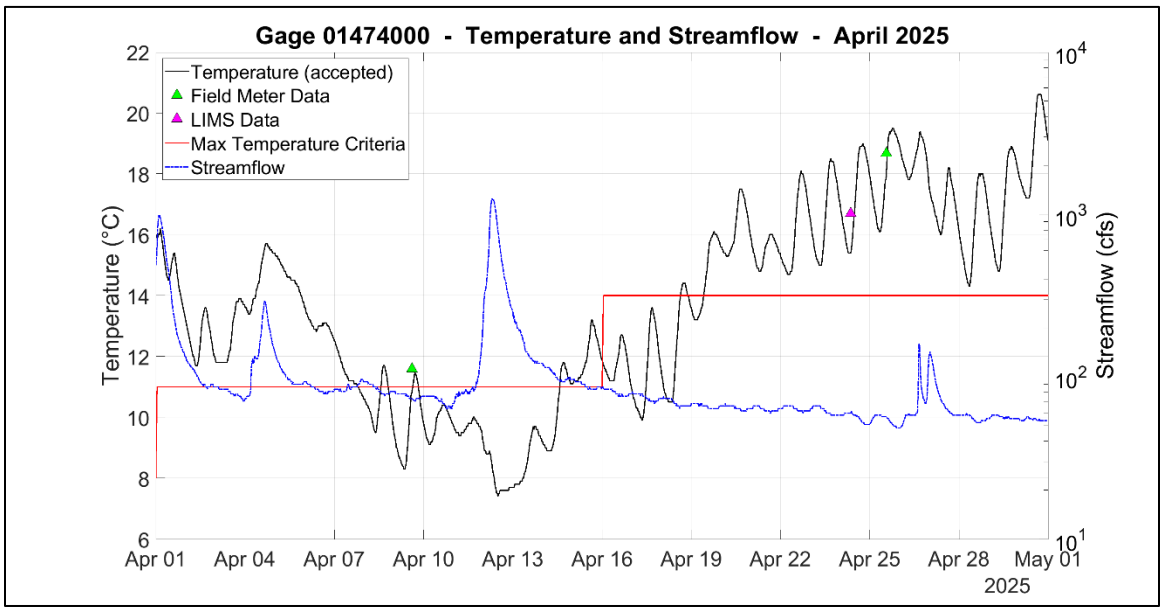



**Figure 52.** Gage 01474000, Temperature and Streamflow, April 2025.

## Poquessing Creek (Gage 01465798)



### Dissolved oxygen and pH

Dissolved oxygen and at this gage site fell below the minimum DO criterion during warmer months. The site rarely exceeded the pH maximum criterion (Table49, Figure 55). Data collected from Poquessing Creek did exhibit classic signs of algal activity, as indicated by diel fluctuations in both DO and pH.

As seen with previous sites, the algal activity and related diel fluctuations in DO and pH are only suppressed by storm events. These suppressions, however, are only very temporary. Given an adequate period of uninterrupted algal growth, such as occurred in April 2025 (Figures 55-56), one can expect increased DO and pH fluctuations.

**Table 48.** Gage 01465798 Dissolved Oxygen Min. Criteria Summary Results by Month

| Month | Des. Use | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | WWF | 2972 | 3.4 | 13.4 | 7.1 | 100 | 0 | 15.7 | 84.3 |
| Aug-24 | WWF | 2972 | 1.7 | 17.2 | 7.7 | 100 | 0 | 9.8 | 90.2 |
| Sep-24 | WWF | 2876 | 3.7 | 12.2 | 7.9 | 96.9 | 3.1 | 1.3 | 98.7 |
| Oct-24 | WWF | 2968 | 6 | 14.2 | 9.3 | 100 | 0 | 0 | 100 |
| Nov-24 | WWF | 2776 | 4.8 | 12.7 | 8.6 | 94.9 | 5.1 | 0.3 | 99.7 |
| Mar-25 | WWF | 2081 | 4.7 | 16 | 10.8 | 100 | 0 | 0.1 | 99.9 |
| Apr-25 | WWF | 2847 | 4.1 | 17.4 | 10.1 | 100 | 0 | 1.3 | 98.7 |
| May-25 | WWF | 2696 | 2.8 | 12.2 | 7.9 | 100 | 0 | 9 | 91 |
| Jun-25 | WWF | 2726 | 3.8 | 12.9 | 7.6 | 100 | 0 | 2 | 98 |

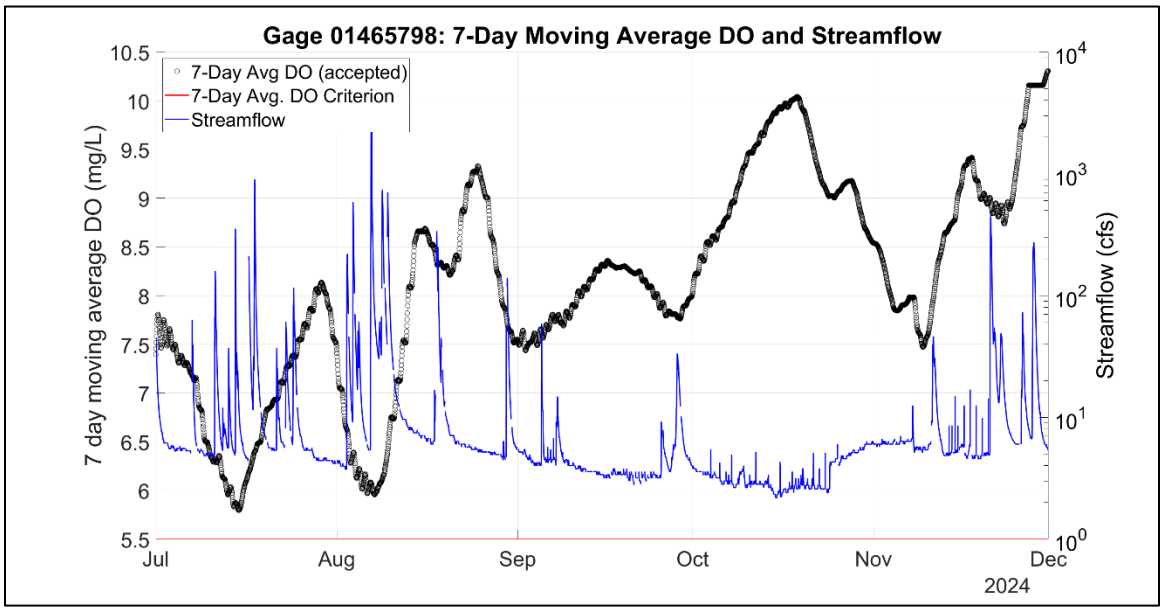



**Figure 53.** Gage 01465798, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Nov 2024.

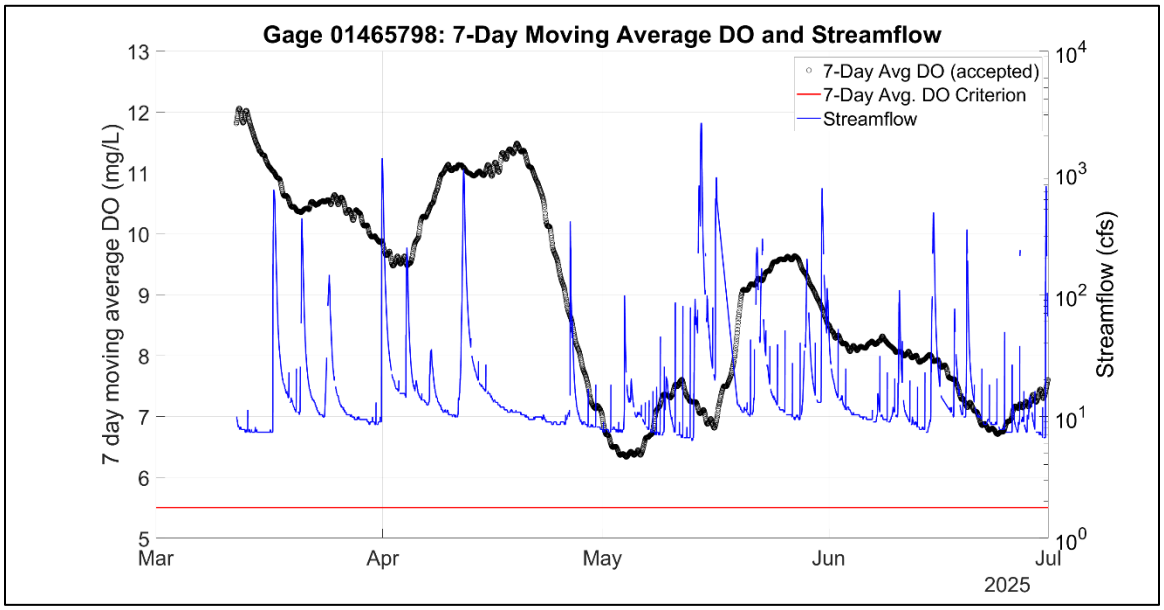



**Figure 54.** Gage 01465798, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2025.

**Table 49.** Gage 01465798 pH Criteria Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % min non-attaining | % max non-attaining | % min attaining | % max attaining |
|---|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | 2972 | 6.8 | 8.9 | 7.4 | 99.9 | 0.1 | 0 | 0 | 100 | 100 |
| Aug-24 | 2972 | 6.2 | 9.4 | 7.4 | 100 | 0 | 0 | 1.7 | 100 | 98.3 |
| Sep-24 | 2876 | 6.9 | 8.0 | 7.2 | 100 | 0 | 0 | 0 | 100 | 100 |
| Oct-24 | 2968 | 6.9 | 8.3 | 7.3 | 100 | 0 | 0 | 0 | 100 | 100 |
| Nov-24 | 2784 | 7.0 | 7.5 | 7.1 | 100 | 0 | 0 | 0 | 100 | 100 |
| Mar-25 | 530 | 7.0 | 7.3 | 7.2 | 100 | 0 | 0 | 0 | 100 | 100 |
| Apr-25 | 2081 | 6.8 | 8.5 | 7.3 | 100 | 0 | 0 | 0 | 100 | 100 |
| May-25 | 2847 | 6.8 | 9.1 | 7.3 | 100 | 0 | 0 | 0.5 | 100 | 99.5 |
| Jun-25 | 2966 | 6.6 | 7.9 | 7.1 | 92.5 | 7.5 | 0 | 0 | 100 | 100 |

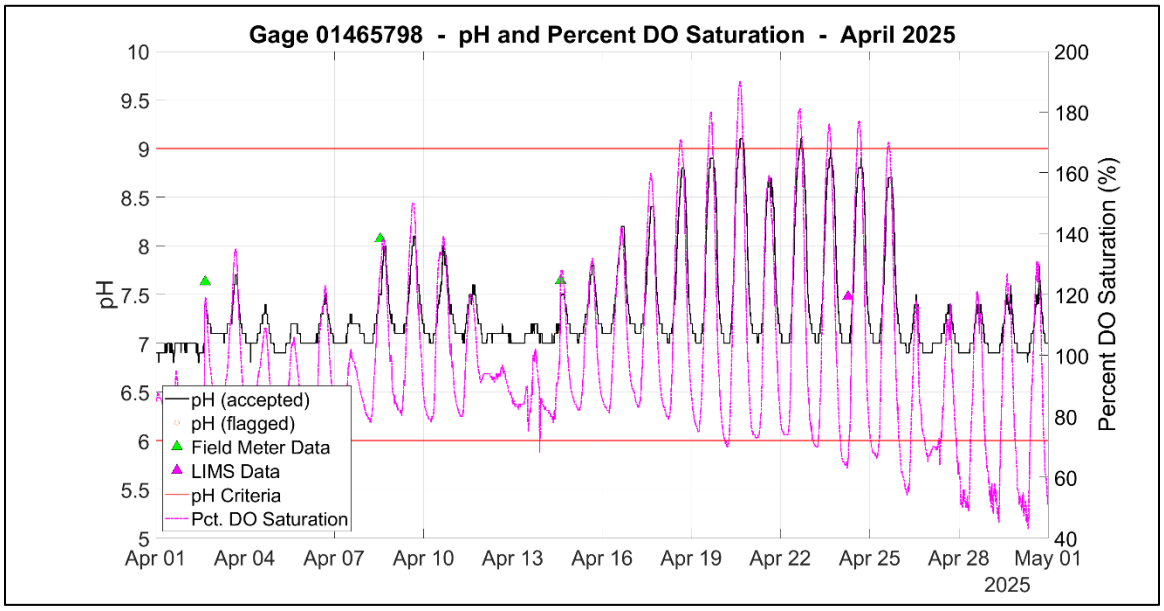



**Figure 55.** Gage 01465798, pH and Percent DO Saturation, April 2025.

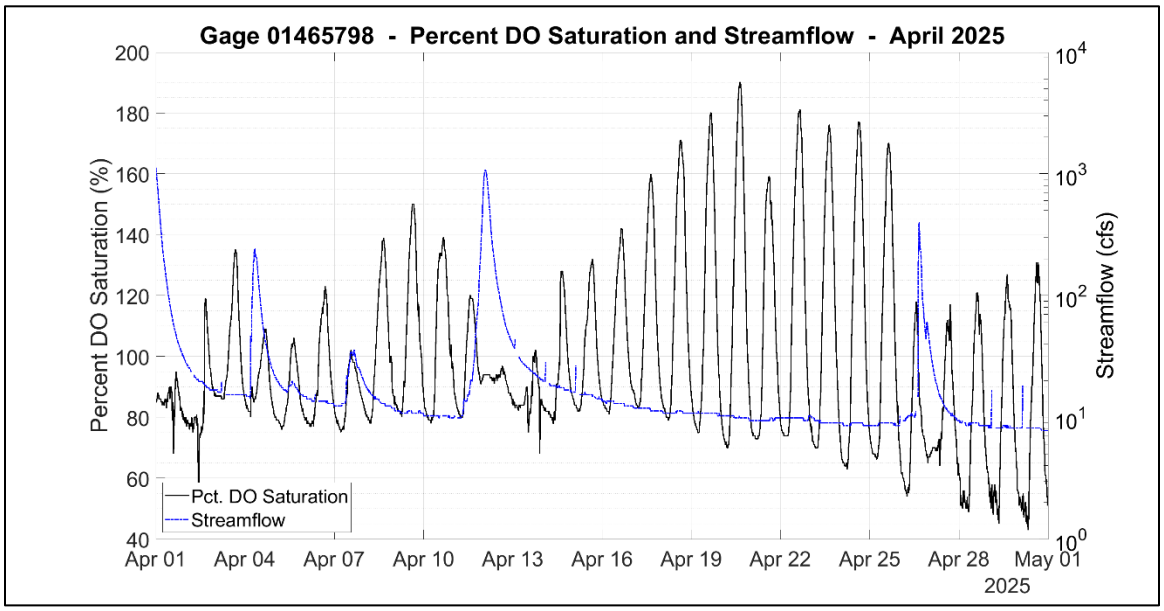



**Figure 56.** Gage 01465798, DO and Streamflow, April 2025.



**Figure 57.** Gage 01465798, Poquessing Creek at Grant Ave., looking upstream

## Turbidity

As in other Philadelphia streams, high turbidity levels accompanied storm events and increased streamflow (Table 50).

**Table 50.** Gage 01465798 Turbidity Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % above max. guideline | % below max. guideline |
|---|---|---|---|---|---|---|---|---|
| Jul-24 | 2972 | 0.6 | 182 | 3.8 | 100 | 0 | 19.9 | 80.1 |
| Aug-24 | 2961 | 0.4 | 940 | 9.3 | 100 | 0 | 39.4 | 60.6 |
| Sep-24 | 2876 | 0.4 | 110 | 2.1 | 100 | 0 | 7.6 | 92.4 |
| Oct-24 | 2968 | 0.2 | 6.5 | 0.8 | 100 | 0 | 0.4 | 99.6 |
| Nov-24 | 2772 | 0.2 | 139 | 3.6 | 100 | 0 | 28.8 | 71.2 |
| Mar-25 | 2064 | 1.2 | 753 | 6.7 | 99.8 | 0.2 | 52.1 | 47.9 |
| Apr-25 | 2688 | 0.9 | 1300 | 5.7 | 100 | 0 | 25.3 | 74.7 |
| May-25 | 2956 | 0.8 | 806 | 11.5 | 100 | 0 | 37.7 | 62.3 |
| Jun-25 | 2723 | 0.4 | 219 | 3.7 | 100 | 0 | 20.1 | 79.9 |

## Specific Conductance

Specific conductance data was similar to other Philadelphia streams (Table 51).

**Table 51.** Gage 01465798 Specific Conductance Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data |
|---|---|---|---|---|---|---|
| Jul-24 | 2971 | 61 | 663 | 455.5 | 100 | 0 |
| Aug-24 | 2970 | 58 | 715 | 452.3 | 100 | 0 |
| Sep-24 | 2876 | 390 | 1530 | 653.1 | 100 | 0 |
| Oct-24 | 2968 | 535 | 717 | 676.4 | 100 | 0 |
| Nov-24 | 2785 | 138 | 687 | 528.9 | 100 | 0 |
| Mar-25 | 2081 | 167 | 958 | 730.9 | 100 | 0 |
| Apr-25 | 2847 | 151 | 776 | 637.2 | 100 | 0 |
| May-25 | 2965 | 89 | 803 | 559.4 | 100 | 0 |
| Jun-25 | 2724 | 142 | 723 | 565.6 | 100 | 0 |

### Temperature

Temperature exceedance rates observed in Poquessing Creek were similar to those in other WWF designated-use creeks (*e.g.*, Tacony and Cobbs Creeks) (Table 52).

**Table 52.** Gage 01465798 Temperature Summary Results by Maximum Criteria Period

| Designated Use | Date range start | Date range end | % exceedance | % attaining | % flagged data | % accepted data | Min | Max | Mean |
|---|---|---|---|---|---|---|---|---|---|
| WWF | 1-Jul | 31-Jul | 0.7 | 99.3 | 0 | 100 | 21 | 31.4 | 25.6 |
| WWF | 1-Aug | 15-Aug | 0 | 100 | 0 | 100 | 20.6 | 30.3 | 24.7 |
| WWF | 16-Aug | 30-Aug | 0 | 100 | 0 | 100 | 17.9 | 28.1 | 22.7 |
| WWF | 1-Sep | 15-Sep | 0 | 100 | 0 | 100 | 16.2 | 25.5 | 20.6 |
| WWF | 16-Sep | 30-Sep | 0 | 100 | 0 | 100 | 17.9 | 23.2 | 20 |
| WWF | 1-Oct | 15-Oct | 0 | 100 | 0 | 100 | 12 | 21.1 | 17.1 |
| WWF | 16-Oct | 31-Oct | 0 | 100 | 0 | 100 | 9.3 | 16.9 | 12.9 |
| WWF | 1-Nov | 15-Nov | 30.3 | 69.7 | 0 | 100 | 6.7 | 17.8 | 12.5 |
| WWF | 16-Nov | 30-Nov | 28.7 | 71.3 | 0 | 100 | 6 | 13 | 9.3 |
| WWF | 1-Mar | 31-Mar | 92.5 | 7.5 | 0 | 100 | 6.5 | 17.8 | 10.9 |
| WWF | 1-Apr | 15-Apr | 50.6 | 49.4 | 0 | 100 | 6.8 | 17.2 | 11.3 |
| WWF | 16-Apr | 30-Apr | 80.7 | 19.3 | 0 | 100 | 8.4 | 21.6 | 16.1 |
| WWF | 1-May | 15-May | 66.9 | 33.1 | 0 | 100 | 14.2 | 23.4 | 18.9 |
| WWF | 16-May | 31-May | 0.6 | 99.4 | 0 | 100 | 13.4 | 22.2 | 16.9 |
| WWF | 1-Jun | 15-Jun | 0 | 100 | 0 | 100 | 14.8 | 26 | 20.3 |
| WWF | 16-Jun | 30-Jun | 7.4 | 92.6 | 0 | 100 | 16.8 | 31 | 24.1 |

# Gages in Large Watersheds

## Schuylkill River (Gage 01474500)



### Dissolved oxygen and pH

DO water quality criteria were not exceeded at this location (Table 53, Figures 58-59). The Schuylkill gage almost always attained pH criteria (Table 54), even during stretches of spring when algal activity is usually greatest (Figure 60).

**Table 53.** Gage 01474500 Dissolved Oxygen Minimum Criterion Summary Results by Month

| Month | Des. Use | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | WWF | 1486 | 3.2 | 17.8 | 8.6 | 99.9 | 0.1 | 0 | 100 |
| Aug-24 | WWF | 1481 | 3.9 | 16.3 | 8.2 | 99.9 | 0.1 | 0 | 100 |
| Sep-24 | WWF | 1440 | 7.3 | 10.7 | 8.2 | 100 | 0 | 0 | 100 |
| Oct-24 | WWF | 1484 | 7.4 | 10.6 | 9.3 | 100 | 0 | 0 | 100 |
| Nov-24 | WWF | 1438 | 8.9 | 11.3 | 10 | 100 | 0 | 0 | 100 |
| Dec-24 | WWF | 1393 | 11 | 14.4 | 13 | 100 | 0 | 0 | 100 |
| Jan-25 | WWF | 528 | 11.6 | 15.3 | 13.4 | 100 | 0 | 0 | 100 |
| Feb-25 | WWF | 1330 | 12.1 | 15.3 | 14.3 | 100 | 0 | 0 | 100 |
| Mar-25 | WWF | 1439 | 10.1 | 14.6 | 11.6 | 100 | 0 | 0 | 100 |
| Apr-25 | WWF | 1436 | 8.2 | 12.4 | 10.2 | 100 | 0 | 0 | 100 |
| May-25 | WWF | 1477 | 5.4 | 12.1 | 9 | 100 | 0 | 0 | 100 |
| Jun-25 | WWF | 1440 | 6.7 | 9.6 | 8.3 | 100 | 0 | 0 | 100 |

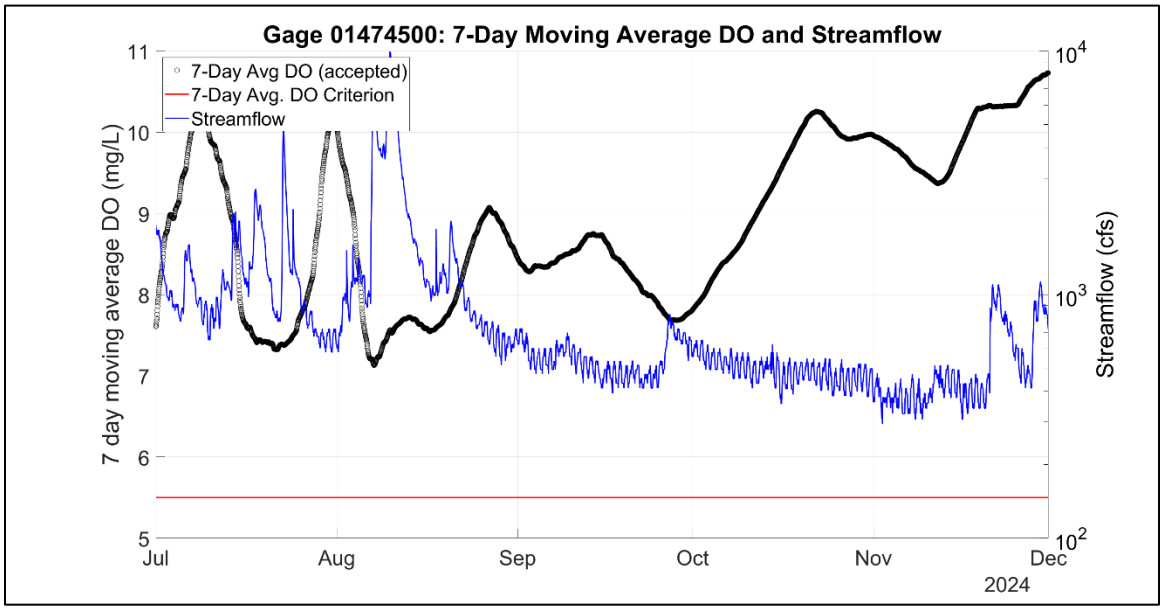



**Figure 58.** Gage 01474500, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Nov 2024.

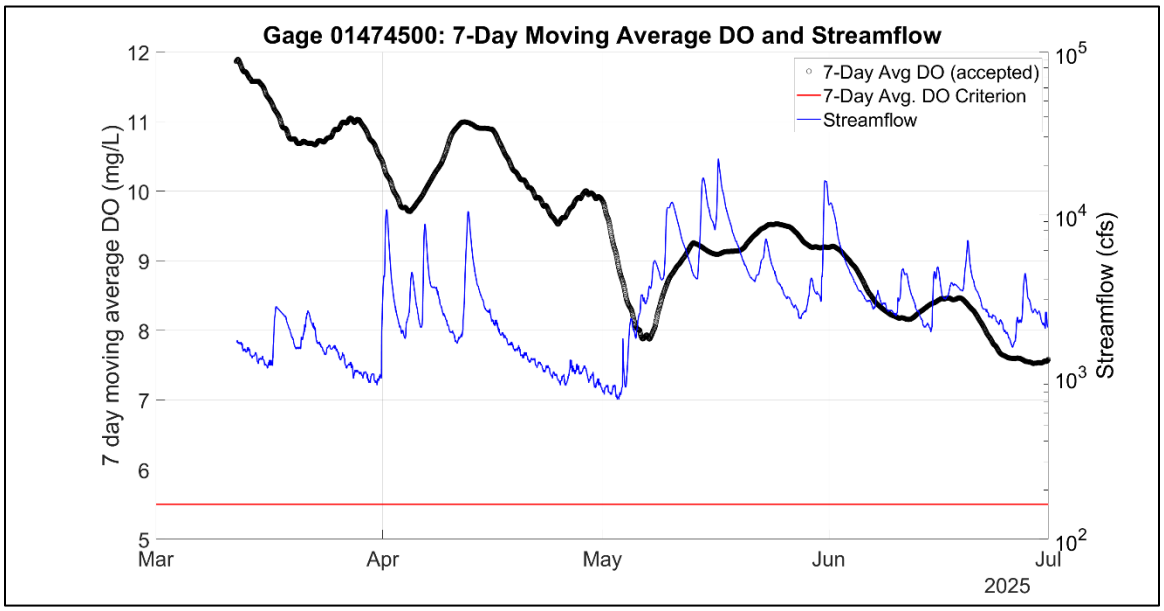



**Figure 59.** Gage 01474500, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2025.

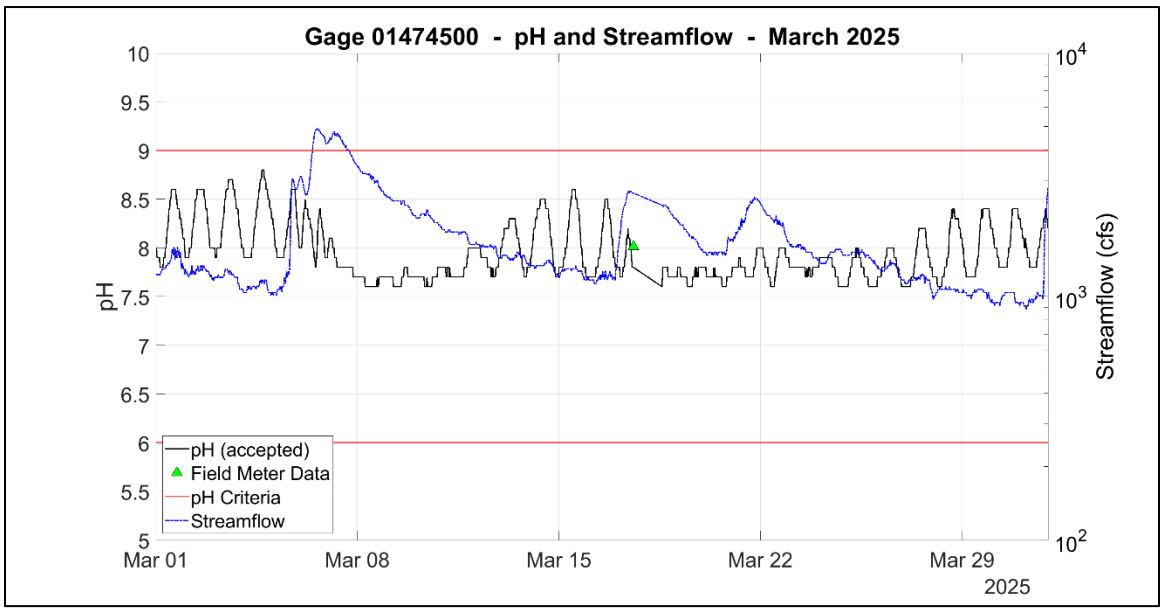



**Figure 60.** Gage 01474500, pH and Streamflow, March 2025.

**Table 54.** Gage 01474500 pH Criteria Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % min non-attaining | % max non-attaining | % min attaining | % max attaining |
|---|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | 1486 | 7.4 | 9.1 | 7.9 | 100 | 0 | 0 | 0.3 | 100 | 99.7 |
| Aug-24 | 1481 | 7.4 | 8.9 | 7.9 | 99.9 | 0.1 | 0 | 0 | 100 | 100 |
| Sep-24 | 1440 | 7.7 | 8.5 | 8 | 100 | 0 | 0 | 0 | 100 | 100 |
| Oct-24 | 1484 | 7.7 | 8.3 | 8.1 | 100 | 0 | 0 | 0 | 100 | 100 |
| Nov-24 | 1438 | 7.8 | 8.1 | 7.9 | 100 | 0 | 0 | 0 | 100 | 100 |
| Dec-24 | 1393 | 7.7 | 8.1 | 8 | 100 | 0 | 0 | 0 | 100 | 100 |
| Jan-25 | 528 | 7.6 | 8.2 | 8 | 99.8 | 0.2 | 0 | 0 | 100 | 100 |
| Feb-25 | 1330 | 7.5 | 8.6 | 8 | 100 | 0 | 0 | 0 | 100 | 100 |
| Mar-25 | 1439 | 7.6 | 8.8 | 7.9 | 100 | 0 | 0 | 0 | 100 | 100 |
| Apr-25 | 1436 | 7.3 | 8.6 | 7.7 | 100 | 0 | 0 | 0 | 100 | 100 |
| May-25 | 1477 | 7.1 | 8.4 | 7.5 | 99.9 | 0.1 | 0 | 0 | 100 | 100 |
| Jun-25 | 1440 | 7.3 | 7.9 | 7.6 | 100 | 0 | 0 | 0 | 100 | 100 |

## Temperature

Temperature data showed variable attainment of maximum temperature criteria (Table 55).

**Table 55.** Gage 01474500 Temperature Summary Results by Maximum Criteria Period

| Designated Use | Date range start | Date range end | % exceedance | % attaining | % flagged data | % accepted data | Min | Max | Mean |
|---|---|---|---|---|---|---|---|---|---|
| WWF | 1-Jul | 31-Jul | 3 | 97 | 0 | 100 | 25.7 | 32.2 | 28.4 |
| WWF | 1-Aug | 15-Aug | 0 | 100 | 0 | 100 | 24.1 | 30.6 | 26.8 |
| WWF | 16-Aug | 30-Aug | 0 | 100 | 0 | 100 | 23 | 27.8 | 25.2 |
| WWF | 1-Sep | 15-Sep | 0 | 100 | 0 | 100 | 21.9 | 26.4 | 23.7 |
| WWF | 16-Sep | 30-Sep | 0 | 100 | 0 | 100 | 20.7 | 24.9 | 22.5 |
| WWF | 1-Oct | 15-Oct | 0 | 100 | 0 | 100 | 17.5 | 21.1 | 19.7 |
| WWF | 16-Oct | 31-Oct | 0 | 100 | 0 | 100 | 14.1 | 16.7 | 15.1 |
| WWF | 1-Nov | 15-Nov | 62.1 | 37.9 | 0 | 100 | 11.7 | 15.8 | 14.2 |
| WWF | 16-Nov | 30-Nov | 48.3 | 51.7 | 0 | 100 | 8.3 | 11.5 | 10 |
| WWF | 1-Mar | 31-Mar | 66.4 | 33.6 | 0 | 100 | 5.3 | 13.2 | 9.5 |
| WWF | 1-Apr | 15-Apr | 52.5 | 47.5 | 0 | 100 | 8 | 15.8 | 11.8 |
| WWF | 16-Apr | 30-Apr | 73.8 | 26.2 | 0 | 100 | 11.3 | 20.3 | 16.4 |
| WWF | 1-May | 15-May | 67.4 | 32.6 | 0 | 100 | 15.8 | 22.9 | 19.5 |
| WWF | 16-May | 31-May | 0 | 100 | 0 | 100 | 14.8 | 18.8 | 17.1 |
| WWF | 1-Jun | 15-Jun | 0 | 100 | 0 | 100 | 16.7 | 24.4 | 21.1 |
| WWF | 16-Jun | 30-Jun | 4.8 | 95.2 | 0 | 100 | 18.9 | 29.7 | 24.3 |



**Figure 61.** Gage 01474500, Schuylkill River at the Fairmount Dam, looking upstream

## Turbidity

Turbidity levels at the Schuylkill gage were less susceptible to extreme peaks due to storms and increased flow (Table 56).

**Table 56.** Gage 01474500 Turbidity Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % above max. guideline | % below max. guideline |
|---|---|---|---|---|---|---|---|---|
| Jul-24 | 1485 | 0.7 | 8.4 | 1.7 | 100 | 0 | 2 | 98 |
| Aug-24 | 1481 | 0.5 | 13.5 | 2.3 | 100 | 0 | 14.5 | 85.5 |
| Sep-24 | 1429 | 1 | 4.6 | 2 | 100 | 0 | 1.7 | 98.3 |
| Oct-24 | 1482 | 1.4 | 4 | 2.1 | 100 | 0 | 0.8 | 99.2 |
| Nov-24 | 1438 | 1.5 | 5.4 | 2.5 | 100 | 0 | 17.9 | 82.1 |
| Dec-24 | 1374 | 1.5 | 9 | 3.9 | 100 | 0 | 62.6 | 37.4 |
| Jan-25 | 528 | 2 | 11.9 | 4.7 | 100 | 0 | 78.6 | 21.4 |
| Feb-25 | 1330 | 1.9 | 40.8 | 5.6 | 100 | 0 | 47.8 | 52.2 |
| Mar-25 | 1438 | 2.1 | 17.2 | 4.8 | 100 | 0 | 91.4 | 8.6 |
| Apr-25 | 1435 | 1.4 | 34.7 | 8.1 | 100 | 0 | 71.4 | 28.6 |
| May-25 | 1476 | 1.9 | 142 | 13.1 | 100 | 0 | 89.6 | 10.4 |
| Jun-25 | 1440 | 0.7 | 61.4 | 5.9 | 100 | 0 | 78.8 | 21.2 |

## Specific Conductance

The Schuylkill River generally exhibits intermediate conductance, lower than the small Philadelphia tributary streams described elsewhere in this report, but greater than that observed in the Delaware River (Table 57). Observed differences are likely due to dilution, geology, and preponderance of anthropogenic sources in the respective watersheds.

**Table 57.** Gage 01474500 Specific Conductance Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data |
|---|---|---|---|---|---|---|
| Jul-24 | 1486 | 332 | 594 | 479.5 | 100 | 0 |
| Aug-24 | 1481 | 241 | 585 | 456.7 | 100 | 0 |
| Sep-24 | 1439 | 556 | 675 | 619.4 | 100 | 0 |
| Oct-24 | 1484 | 603 | 651 | 625.2 | 100 | 0 |
| Nov-24 | 1438 | 573 | 712 | 651.4 | 100 | 0 |
| Dec-24 | 1393 | 395 | 620 | 515.1 | 100 | 0 |
| Jan-25 | 528 | 449 | 729 | 547.9 | 100 | 0 |
| Feb-25 | 1330 | 603 | 1340 | 792.2 | 100 | 0 |
| Mar-25 | 1439 | 442 | 664 | 533.2 | 100 | 0 |
| Apr-25 | 1436 | 329 | 567 | 448.6 | 100 | 0 |
| May-25 | 1476 | 214 | 536 | 351.9 | 100 | 0 |
| Jun-25 | 1440 | 241 | 460 | 365.9 | 100 | 0 |

## Delaware River (Gages 01467200 and 014670261)



### Dissolved oxygen and pH

The DRBC DO daily mean and pH criteria for Zone 3 was attained at Gage 01467200 for the entire reporting period (Tables 58 and 60). Zone 2 daily mean DO criteria were mostly attained at Gage 014670261, with brief summer non-attainments likely linked to temperature-driven algal production, while pH criteria were always attained (Tables 59 and 61).



**Figure 62.** Delaware River at Ben Franklin Bridge, near Gage 01467200

**Table 58.** Gage 01467200 Dissolved Oxygen Daily Mean Criterion Summary Results by Month

| Month | Des. Use | Days | Daily Avg. Min | Daily Avg. Max | Daily Avg. Mean | % non-attaining | % attaining |
|---|---|---|---|---|---|---|---|
| Jul-24 | DRBC | 31 | 3.64 | 5.0 | 4.5 | 0 | 100 |
| Aug-24 | DRBC | 31 | 4.4 | 6.0 | 5.1 | 0 | 100 |
| Sep-24 | DRBC | 30 | 5.1 | 5.7 | 5.5 | 0 | 100 |
| Oct-24 | DRBC | 31 | 5.6 | 7.1 | 6.4 | 0 | 100 |
| Nov-24 | DRBC | 30 | 7.0 | 8.5 | 7.5 | 0 | 100 |
| Dec-24 | DRBC | 31 | 8.9 | 12.3 | 11.2 | 0 | 100 |
| Jan-25 | DRBC | 31 | 12.2 | 13.4 | 13 | 0 | 100 |
| Feb-25 | DRBC | 28 | 12.6 | 13.3 | 13 | 0 | 100 |
| Mar-25 | DRBC | 31 | 9.9 | 12.9 | 11.5 | 0 | 100 |
| Apr-25 | DRBC | 30 | 8.6 | 10.2 | 9.4 | 0 | 100 |
| May-25 | DRBC | 31 | 7.6 | 8.9 | 8.2 | 0 | 100 |
| Jun-25 | DRBC | 31 | 3.6 | 5.0 | 4.5 | 0 | 100 |

**Table 59.** Gage 014670261 Dissolved Oxygen Daily Mean Criterion Summary Results by Month

| Month | Des. Use | Days | Daily Avg. Min | Daily Avg. Max | Daily Avg. Mean | % non-attaining | % attaining |
|---|---|---|---|---|---|---|---|
| Jul-24 | DRBC | 31 | 4.9 | 6.5 | 5.9 | 6.5 | 93.5 |
| Aug-24 | DRBC | 31 | 5.5 | 6.9 | 6.2 | 0 | 100 |
| Sep-24 | DRBC | 30 | 6.2 | 6.9 | 6.7 | 0 | 100 |
| Oct-24 | DRBC | 31 | 6.5 | 8.6 | 7.6 | 0 | 100 |
| Nov-24 | DRBC | 30 | 8.5 | 10.0 | 8.9 | 0 | 100 |
| Dec-24 | DRBC | 27 | 10.3 | 13.4 | 12.3 | 0 | 100 |
| Jan-25 | DRBC | 31 | 12.6 | 14.3 | 13.8 | 0 | 100 |
| Feb-25 | DRBC | 28 | 13.6 | 14.1 | 13.8 | 0 | 100 |
| Mar-25 | DRBC | 26 | 10.5 | 13.7 | 11.6 | 0 | 100 |
| Apr-25 | DRBC | 30 | 8.4 | 10.8 | 9.7 | 0 | 100 |
| May-25 | DRBC | 31 | 7.5 | 9.1 | 8.5 | 0 | 100 |
| Jun-25 | DRBC | 31 | 4.9 | 6.5 | 5.9 | 6.5 | 93.5 |

**Table 60.** Gage 01467200 pH Criteria Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % min non-attaining | % max non-attaining | % min attaining | % max attaining |
|---|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | 2858 | 2949 | 7.0 | 7.3 | 7.1 | 100 | 0 | 0 | 0 | 100 |
| Aug-24 | 2866 | 2960 | 6.8 | 7.3 | 7.1 | 100 | 0 | 0 | 0 | 100 |
| Sep-24 | 2760 | 2864 | 7.0 | 7.3 | 7.2 | 100 | 0 | 0 | 0 | 100 |
| Oct-24 | 2863 | 2956 | 7.2 | 7.5 | 7.3 | 100 | 0 | 0 | 0 | 100 |
| Nov-24 | 2758 | 2853 | 7.2 | 7.5 | 7.3 | 100 | 0 | 0 | 0 | 100 |
| Dec-24 | 2844 | 2816 | 7.1 | 7.6 | 7.3 | 100 | 0 | 0 | 0 | 100 |
| Jan-25 | 2853 | 2951 | 7.2 | 7.5 | 7.4 | 100 | 0 | 0 | 0 | 100 |
| Feb-25 | 2676 | 2640 | 7.3 | 7.6 | 7.4 | 100 | 0 | 0 | 0 | 100 |
| Mar-25 | 2453 | 2924 | 7.0 | 7.7 | 7.3 | 100 | 0 | 0 | 0 | 100 |
| Apr-25 | 2115 | 2859 | 6.9 | 7.3 | 7.1 | 100 | 0 | 0 | 0 | 100 |
| May-25 | 2412 | 2955 | 6.5 | 7.4 | 7.0 | 100 | 0 | 0 | 0 | 100 |
| Jun-25 | 2752 | 2840 | 6.8 | 7.2 | 7.1 | 100 | 0 | 0 | 0 | 100 |

**Table 61.** Gage 014670261 pH Criteria Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % min non-attaining | % max non-attaining | % min attaining | % max attaining |
|---|---|---|---|---|---|---|---|---|---|---|
| Jul-24 | 2972 | 7.1 | 7.6 | 7.3 | 100 | 0 | 0 | 0 | 100 | 100 |
| Aug-24 | 2851 | 6.8 | 7.5 | 7.2 | 100 | 0 | 0 | 0 | 100 | 100 |
| Sep-24 | 2860 | 7.3 | 7.6 | 7.5 | 100 | 0 | 0 | 0 | 100 | 100 |
| Oct-24 | 2891 | 7.4 | 7.6 | 7.5 | 100 | 0 | 0 | 0 | 100 | 100 |
| Nov-24 | 2782 | 7.4 | 7.7 | 7.6 | 100 | 0 | 0 | 0 | 100 | 100 |
| Dec-24 | 2408 | 7.2 | 7.8 | 7.5 | 100 | 0 | 0 | 0 | 100 | 100 |
| Jan-25 | 2843 | 6.1 | 7.8 | 7.4 | 99.6 | 0.4 | 0 | 0 | 100 | 100 |
| Feb-25 | 2532 | 7.4 | 7.8 | 7.6 | 100 | 0 | 0 | 0 | 100 | 100 |
| Mar-25 | 2403 | 7.1 | 7.9 | 7.3 | 100 | 0 | 0 | 0 | 100 | 100 |
| Apr-25 | 2862 | 6.9 | 7.5 | 7.3 | 99.9 | 0.1 | 0 | 0 | 100 | 100 |
| May-25 | 2947 | 6.8 | 7.7 | 7.2 | 100 | 0 | 0 | 0 | 100 | 100 |
| Jun-25 | 2864 | 7.0 | 7.4 | 7.3 | 100 | 0 | 0 | 0 | 100 | 100 |

### Temperature

Temperature criteria for the Delaware River were rarely exceeded at these gages (Tables 62-63).

**Table 62.** Gage 01467200 Temperature Summary Results by Maximum Criteria Period

| Designated Use | Date range start | Date range end | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|---|---|---|---|
| DRBC | 1-Jul | 31-Jul | 2950 | 26 | 29.4 | 28 | 100 | 0 | 0 | 100 |
| DRBC | 1-Aug | 30-Aug | 2959 | 23.3 | 28.4 | 25.4 | 100 | 0 | 0 | 100 |
| DRBC | 1-Sep | 30-Sep | 2864 | 21.4 | 24.8 | 23.1 | 100 | 0 | 0 | 100 |
| DRBC | 1-Oct | 31-Oct | 2956 | 16 | 21.6 | 18.7 | 100 | 0 | 0 | 100 |
| DRBC | 1-Nov | 30-Nov | 2853 | 9.2 | 16.7 | 13.8 | 100 | 0 | 0 | 100 |
| DRBC | 1-Dec | 31-Dec | 2960 | 2.7 | 9.7 | 5.1 | 100 | 0 | 0 | 100 |
| DRBC | 1-Jan | 31-Jan | 2952 | 0.1 | 4.1 | 1.4 | 100 | 0 | 0 | 100 |
| DRBC | 1-Feb | 29-Feb | 2640 | 0.8 | 3.1 | 1.8 | 100 | 0 | 0 | 100 |
| DRBC | 1-Mar | 31-Mar | 2924 | 3 | 11.5 | 7.4 | 100 | 0 | 0 | 100 |
| DRBC | 1-Apr | 30-Apr | 2859 | 9.2 | 17 | 12 | 100 | 0 | 0 | 100 |
| DRBC | 1-May | 31-May | 2955 | 14.9 | 20.2 | 17 | 100 | 0 | 0 | 100 |
| DRBC | 1-Jun | 30-Jun | 2840 | 16.4 | 26.4 | 21.5 | 100 | 0 | 0 | 100 |

**Table 63.** Gage 014670261 Temperature Summary Results by Maximum Criteria Period

| Designated Use | Date range start | Date range end | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|---|---|---|---|
| DRBC | 1-Jul | 31-Jul | 2970 | 26.4 | 30.3 | 28.4 | 100 | 0 | 1.3 | 98.7 |
| DRBC | 1-Aug | 30-Aug | 2862 | 22.4 | 28.7 | 25 | 100 | 0 | 0 | 100 |
| DRBC | 1-Sep | 30-Sep | 2860 | 21 | 24.8 | 22.9 | 100 | 0 | 0 | 100 |
| DRBC | 1-Oct | 31-Oct | 2895 | 14.6 | 21.2 | 18 | 100 | 0 | 0 | 100 |
| DRBC | 1-Nov | 30-Nov | 2783 | 7.3 | 16 | 12.6 | 100 | 0 | 0 | 100 |
| DRBC | 1-Dec | 31-Dec | 2409 | 1.5 | 7.6 | 4 | 100 | 0 | 0 | 100 |
| DRBC | 1-Jan | 31-Jan | 2858 | -1.3 | 4.6 | 0.9 | 99.9 | 0.1 | 0 | 100 |
| DRBC | 1-Feb | 29-Feb | 2589 | 0.2 | 3.3 | 1.3 | 100 | 0 | 0 | 100 |
| DRBC | 1-Mar | 31-Mar | 2402 | 2.6 | 11.4 | 7.9 | 100 | 0 | 0 | 100 |
| DRBC | 1-Apr | 30-Apr | 2862 | 8.6 | 18.7 | 12.4 | 100 | 0 | 0 | 100 |
| DRBC | 1-May | 31-May | 2946 | 14.5 | 20.7 | 17.1 | 100 | 0 | 0 | 100 |
| DRBC | 1-Jun | 30-Jun | 2864 | 16.7 | 26.8 | 21.6 | 100 | 0 | 0 | 100 |

## Specific Conductance

The Delaware River provides a large amount of dilution and thus exhibits much lower conductivity than the small Philadelphia tributary streams described elsewhere in this report (Tables 64-65).

**Table 64.** Gage 01467200 Specific Conductance Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data |
|---|---|---|---|---|---|---|
| Jul-24 | 2949 | 262 | 318 | 288.6 | 100 | 0 |
| Aug-24 | 2960 | 135 | 318 | 214 | 100 | 0 |
| Sep-24 | 2864 | 212 | 322 | 260.6 | 100 | 0 |
| Oct-24 | 2956 | 280 | 424 | 326.4 | 100 | 0 |
| Nov-24 | 2853 | 302 | 634 | 407.6 | 100 | 0 |
| Dec-24 | 2960 | 150 | 402 | 254.6 | 100 | 0 |
| Jan-25 | 2952 | 188 | 318 | 252.5 | 100 | 0 |
| Feb-25 | 2639 | 292 | 553 | 427.5 | 100 | 0 |
| Mar-25 | 2924 | 193 | 544 | 282.9 | 100 | 0 |
| Apr-25 | 2859 | 221 | 277 | 250.4 | 100 | 0 |
| May-25 | 2955 | 115 | 278 | 192.4 | 100 | 0 |
| Jun-25 | 2840 | 166 | 229 | 199.7 | 100 | 0 |

**Table 65.** Gage 014670261 Specific Conductance Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data |
|---|---|---|---|---|---|---|
| Jul-24 | 2971 | 239 | 296 | 263.7 | 100 | 0 |
| Aug-24 | 2859 | 98 | 273 | 192.3 | 100 | 0 |
| Sep-24 | 2859 | 204 | 280 | 246.7 | 100 | 0 |
| Oct-24 | 2895 | 254 | 296 | 268.3 | 100 | 0 |
| Nov-24 | 2786 | 263 | 318 | 283.7 | 100 | 0 |
| Dec-24 | 2405 | 132 | 366 | 228.1 | 100 | 0 |
| Jan-25 | 2840 | 12 | 347 | 239.1 | 99.9 | 0.1 |
| Feb-25 | 2577 | 290 | 662 | 423.6 | 100 | 0 |
| Mar-25 | 2403 | 176 | 429 | 232.5 | 100 | 0 |
| Apr-25 | 2862 | 214 | 303 | 245 | 100 | 0 |
| May-25 | 2948 | 67 | 330 | 186.2 | 100 | 0 |
| Jun-25 | 2864 | 133 | 264 | 188.6 | 100 | 0 |

## Turbidity

Turbidity guidelines at both gages were almost always exceeded throughout the year (Tables 66-67).

**Table 66.** Gage 01467200 Turbidity Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|---|---|
| Jul-24 | 2950 | 1.5 | 29.5 | 5.2 | 100 | 0 | 91.7 | 8.3 |
| Aug-24 | 2961 | 1.1 | 20.5 | 4.8 | 100 | 0 | 81.9 | 18.1 |
| Sep-24 | 2863 | 2.1 | 24.1 | 5.2 | 100 | 0 | 96.7 | 3.3 |
| Oct-24 | 2955 | 2.2 | 35.8 | 9.2 | 100 | 0 | 99.6 | 0.4 |
| Nov-24 | 2853 | 5.1 | 76 | 16.1 | 100 | 0 | 100 | 0 |
| Dec-24 | 2960 | 4 | 69 | 10.5 | 100 | 0 | 100 | 0 |
| Jan-25 | 2953 | 1.4 | 53.3 | 9.1 | 100 | 0 | 100 | 0 |
| Feb-25 | 2640 | 2.3 | 37.4 | 10.5 | 100 | 0 | 100 | 0 |
| Mar-25 | 2924 | 2.2 | 17.5 | 5.6 | 100 | 0 | 97.7 | 2.3 |
| Apr-25 | 2858 | 1.6 | 34.7 | 5.8 | 100 | 0 | 93.6 | 6.4 |
| May-25 | 2955 | 1 | 21 | 5.6 | 100 | 0 | 92.3 | 7.7 |
| Jun-25 | 2840 | 2.6 | 19.7 | 7.4 | 100 | 0 | 99.9 | 0.1 |

**Table 67.** Gage 014670261 Turbidity Summary Results by Month

| Month | Observations, n | Min | Max | Mean | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|---|---|
| Jul-24 | 2971 | 1.4 | 40 | 3.9 | 100 | 0 | 72.1 | 27.9 |
| Aug-24 | 2856 | 1.5 | 323 | 7.7 | 100 | 0 | 93.5 | 6.5 |
| Sep-24 | 2860 | 1.7 | 17.9 | 4.7 | 100 | 0 | 92.8 | 7.2 |
| Oct-24 | 2885 | 1.6 | 29.2 | 4.8 | 100 | 0 | 89.7 | 10.3 |
| Nov-24 | 2775 | 2.2 | 51.1 | 7.6 | 100 | 0 | 99.4 | 0.6 |
| Dec-24 | 2400 | 3.8 | 66.5 | 13.1 | 100 | 0 | 100 | 0 |
| Jan-25 | 2866 | 2.8 | 69.7 | 11.8 | 100 | 0 | 100 | 0 |
| Feb-25 | 2612 | 3.2 | 38.2 | 9.7 | 100 | 0 | 100 | 0 |
| Mar-25 | 2399 | 3.5 | 35.5 | 8.4 | 100 | 0 | 100 | 0 |
| Apr-25 | 2864 | 2.4 | 75.4 | 8.5 | 100 | 0 | 99.4 | 0.6 |
| May-25 | 2948 | 0.3 | 53.7 | 10.8 | 100 | 0 | 99.4 | 0.6 |
| Jun-25 | 2862 | 2.7 | 55.7 | 9.3 | 100 | 0 | 99.9 | 0.1 |

# Wet Weather and Dry Weather Results

## Annual Summary, July 2024 - June 2025

Water quality data was also categorized as wet or dry for the purpose of evaluating weather effects on water quality, and specifically the incidence of non-attainment of water quality criteria. A wet weather condition was defined as rainfall greater than 0.05 inches in the preceding 72 hours, as measured at the nearest PWD rain gage.

In general, more frequent non-attainment of DO criteria was observed in wet weather due to the tendency of storm events to decrease DO via the introduction of stormwater runoff and BOD (Tables 68-69). The turbidity maximum guideline was also usually more frequently surpassed in wet weather (Tables 72-73). The pH maximum criterion was exceeded in both wet and dry weather (Tables 70-71). Temperature criteria were more likely to be exceeded at Trout Stocking Fishery (TSF) gages due to more stringent seasonal criteria (Tables 76-77).

**Table 68.** USGS Gage July 2024 - June 2025 Dissolved Oxygen Minimum Criterion Summary Results During Wet Weather

| Gage number | Designated Use | Observations, n | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|
| 01465798 | WWF | 4481 | 99.5 | 0.5 | 5.9 | 94.1 |
| 014670261* | DRBC | 5360 | 100 | 0 | NA | NA |
| 01467042 | TSF | 4419 | 99 | 1 | 1.5 | 98.5 |
| 01467048 | TSF | 4533 | 100 | 0 | 0.4 | 99.6 |
| 01467086 | WWF | 2820 | 100 | 0 | 4.1 | 95.9 |
| 01467087 | WWF | 4098 | 99.9 | 0.1 | 26.3 | 73.7 |
| 01467200* | DRBC | 5587 | 100 | 0 | NA | NA |
| 01473900 | TSF | 4294 | 99.9 | 0.1 | 7 | 93 |
| 01474000 | TSF | 2219 | 100 | 0 | 0 | 100 |
| 01474500 | WWF | 2792 | 100 | 0 | 0 | 100 |
| 01475530 | WWF | 4059 | 100 | 0 | 0.2 | 99.8 |
| 01475548 | WWF | 4101 | 100 | 0 | 12.8 | 87.2 |

*No minimum DO criterion applies at these locations.

**Table 69.** USGS Gage July 2024 - June 2025 Dissolved Oxygen Minimum Criterion Summary Results During Dry Weather

| Gage number | Designated Use | Observations, n | % accepted data | % flagged data | % non-attaining | % attaining |
|---|---|---|---|---|---|---|
| 01465798 | WWF | 20963 | 98.6 | 1.4 | 4.2 | 95.8 |
| 01467026* | DRBC | 27936 | 100 | 0 | NA | NA |
| 01467042 | TSF | 20880 | 98.8 | 1.2 | 0.4 | 99.6 |
| 01467048 | TSF | 20873 | 100 | 0 | 0 | 100 |
| 01467086 | WWF | 11940 | 99.9 | 0.1 | 2 | 98 |
| 01467087 | WWF | 23976 | 99.6 | 0.4 | 19 | 81 |
| 01467200* | DRBC | 29124 | 100 | 0 | NA | NA |
| 01473900 | TSF | 20475 | 100 | 0 | 4.7 | 95.3 |
| 01474000 | TSF | 10618 | 100 | 0 | 0 | 100 |
| 01474500 | WWF | 13580 | 100 | 0 | 0 | 100 |
| 01475530 | WWF | 18955 | 100 | 0 | 0 | 100 |
| 01475548 | WWF | 18619 | 99.4 | 0.6 | 6.7 | 93.3 |

*No minimum DO criterion applies at these locations.

**Table 70.** USGS Gage July 2024 - June 2025 pH Criteria Summary Results During Wet Weather

| Gage number | Observations, n | % accepted data | % flagged data | % min. non-attaining | % max. non-attaining | % min. attaining | % max attaining | % attaining |
|---|---|---|---|---|---|---|---|---|
| 01465798 | 4533 | 99.9 | 0.1 | 0 | 0 | 100 | 100 | 100 |
| 014670261 | 5351 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01467042 | 4419 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01467048 | 4530 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01467086 | 2825 | 99.2 | 0.8 | 0 | 0 | 100 | 100 | 100 |
| 01467087 | 5072 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01467200 | 5587 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01473900 | 4295 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01474000 | 2218 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01474500 | 2792 | 100 | 0 | 0 | 0.2 | 100 | 99.8 | 99.8 |
| 01475530 | 4059 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01475548 | 4364 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |

**Table 71.** USGS Gage July 2024 - June 2025 pH Criteria Summary Results During Dry Weather

| Gage number | Observations, n | % accepted data | % flagged data | % min. non-attaining | % max. non-attaining | % min. attaining | % max attaining | % attaining |
|---|---|---|---|---|---|---|---|---|
| 01465798 | 10063 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 014670261 | 13846 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01467042 | 9716 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01467048 | 10078 | 99.9 | 0.1 | 0 | 0.1 | 100 | 99.9 | 99.9 |
| 01467086 | 4871 | 100 | 0 | 0 | 0.8 | 100 | 99.2 | 99.2 |
| 01467087 | 8664 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01467200 | 13806 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01473900 | 6044 | 99.9 | 0.1 | 0 | 1.2 | 100 | 98.8 | 98.8 |
| 01474000 | 5366 | 100 | 0 | 0 | 1.9 | 100 | 98.1 | 98.1 |
| 01474500 | 5217 | 100 | 0 | 0 | 0.1 | 100 | 99.9 | 99.9 |
| 01475530 | 11029 | 100 | 0 | 0 | 0 | 100 | 100 | 100 |
| 01475548 | 10307 | 100 | 0 | 0 | 0.6 | 100 | 99.4 | 99.4 |

**Table 72.** USGS Gage July 2024 - June 2025 Turbidity Summary Results During Wet Weather

| Gage number | Observations, n | % accepted data | % flagged data | % above max. guideline | % below max. guideline |
|---|---|---|---|---|---|
| 01465798 | 4423 | 100 | 0 | 73.3 | 26.7 |
| 014670261 | 5358 | 100 | 0 | 93.9 | 6.1 |
| 01467042 | 4419 | 100 | 0 | 57.9 | 42.1 |
| 01467048 | 4486 | 100 | 0 | 70.7 | 29.3 |
| 01467086* | 0 | NA | NA | NA | NA |
| 01467087* | 0 | NA | NA | NA | NA |
| 01467200* | 5586 | 100 | 0 | 92.7 | 7.3 |
| 01473900 | 4436 | 97.1 | 2.9 | 66.4 | 33.6 |
| 01474000 | 2217 | 100 | 0 | 45.8 | 54.2 |
| 01474500 | 2783 | 100 | 0 | 58.4 | 41.6 |
| 01475530* | 0 | NA | NA | NA | NA |
| 01475548* | 0 | NA | NA | NA | NA |

*Turbidity not continuously monitored at this location

**Table 73.** USGS Gage July 2024 - June 2025 Turbidity Summary Results During Dry Weather

| Gage number | Observations, n | %accepted data | % flagged data | % above max. guideline | % below max. guideline |
|---|---|---|---|---|---|
| 01465798 | 21087 | 100 | 0 | 15 | 85 |
| 014670261 | 27940 | 100 | 0 | 95.6 | 4.4 |
| 01467042 | 20871 | 98.6 | 1.4 | 6.9 | 93.1 |
| 01467048 | 20263 | 100 | 0 | 13.1 | 86.9 |
| 01467086* | 0 | NA | NA | NA | NA |
| 01467087* | 0 | NA | NA | NA | NA |
| 01467200* | 29126 | 100 | 0 | 96.7 | 3.3 |
| 01473900 | 20590 | 99.8 | 0.2 | 31 | 69 |
| 01474000 | 10627 | 100 | 0 | 5.1 | 94.9 |
| 01474500 | 13553 | 100 | 0 | 41.5 | 58.5 |
| 01475530* | 0 | NA | NA | NA | NA |
| 01475548* | 0 | NA | NA | NA | NA |

*Turbidity not continuously monitored at this location

**Table 74.** USGS Gage July 2024 - June 2025 Specific Conductance Summary Results During Wet Weather

| Gage number | Observations, n | % accepted data | % flagged data |
|---|---|---|---|
| 01465798 | 4533 | 100 | 0 |
| 014670261 | 5356 | 100 | 0 |
| 01467042 | 4366 | 100 | 0 |
| 01467048 | 4384 | 100 | 0 |
| 01467086 | 2835 | 100 | 0 |
| 01467087 | 5192 | 100 | 0 |
| 01467200 | 5587 | 100 | 0 |
| 01473900 | 4436 | 100 | 0 |
| 01474000 | 2219 | 100 | 0 |
| 01474500 | 2792 | 100 | 0 |
| 01475530 | 4059 | 100 | 0 |
| 01475548 | 4364 | 100 | 0 |

**Table 75.** USGS Gage July 2024 - June 2025 Specific Conductance Summary Results During Dry Weather

| Gage number | Observations, n | % accepted data | % flagged data |
|---|---|---|---|
| 01465798 | 21184 | 100 | 0 |
| 014670261 | 27913 | 100 | 0 |
| 01467042 | 20734 | 100 | 0 |
| 01467048 | 20715 | 100 | 0 |
| 01467086 | 12046 | 100 | 0 |
| 01467087 | 26089 | 100 | 0 |
| 01467200 | 29124 | 100 | 0 |
| 01473900 | 20601 | 100 | 0 |
| 01474000 | 10642 | 100 | 0 |
| 01474500 | 13578 | 100 | 0 |
| 01475530 | 18945 | 100 | 0 |
| 01475548 | 18864 | 100 | 0 |

**Table 76.** USGS Gage July 2024 - June 2025 Temperature Maximum Criteria Summary Results During Wet Weather

| Gage number | Designated Use | Observations, n | % accepted data | % flagged data | % exceedance | % attaining |
|---|---|---|---|---|---|---|
| 01465798 | WWF | 4533 | 100 | 0 | 21.6 | 78.4 |
| 014670261 | DRBC | 5360 | 100 | 0 | 0 | 100 |
| 01467042 | TSF | 4419 | 100 | 0 | 36.5 | 63.5 |
| 01467048 | TSF | 4392 | 100 | 0 | 39 | 61 |
| 01467086 | WWF | 2835 | 100 | 0 | 15.7 | 84.3 |
| 01467087 | WWF | 5226 | 100 | 0 | 28.1 | 71.9 |
| 01467200 | DRBC | 5587 | 100 | 0 | 0 | 100 |
| 01473900 | TSF | 4437 | 100 | 0 | 39.4 | 60.6 |
| 01474000 | TSF | 2201 | 100 | 0 | 42 | 58 |
| 01474500 | WWF | 2792 | 100 | 0 | 24.7 | 75.3 |
| 01475530 | WWF | 4059 | 100 | 0 | 17.1 | 82.9 |
| 01475548 | WWF | 4364 | 100 | 0 | 22.4 | 77.6 |

**Table 77.** USGS Gage July 2024 - June 2025 Temperature Maximum Criteria Summary Results During Dry Weather

| Gage number | Designated Use | Observations, n | % accepted data | % flagged data | % exceedance | % attaining |
|---|---|---|---|---|---|---|
| 01465798 | WWF | 21201 | 100 | 0 | 22.1 | 77.9 |
| 014670261 | DRBC | 27940 | 100 | 0 | 0.1 | 99.9 |
| 01467042 | TSF | 20876 | 100 | 0 | 37 | 63 |
| 01467048 | TSF | 20731 | 100 | 0 | 40 | 60 |
| 01467086 | WWF | 12060 | 100 | 0 | 21.8 | 78.2 |
| 01467087 | WWF | 26113 | 100 | 0 | 21 | 79 |
| 01467200 | DRBC | 29125 | 100 | 0 | 0 | 100 |
| 01473900 | TSF | 20614 | 100 | 0 | 35.1 | 64.9 |
| 01474000 | TSF | 10534 | 100 | 0 | 34.1 | 65.9 |
| 01474500 | WWF | 13592 | 100 | 0 | 21.4 | 78.6 |
| 01475530 | WWF | 18952 | 100 | 0 | 15.5 | 84.5 |
| 01475548 | WWF | 18865 | 100 | 0 | 12.2 | 87.8 |

## References

Delaware River Basin Commission, 2007. Delaware River Basin Water Code: 18 CFR Part 410 (With Amendments Through September 27, 2006). West Trenton, NJ.

# Appendix H – PWD/USGS Groundwater Monitoring Program

## Background

The basis of PWD's CSO LTCPU wet weather source control strategy is the "capture" and infiltration of as much rainwater as possible with green stormwater infrastructure (GSI). The direct benefits of such an effort are a reduction of stormwater discharged directly to streams, as well as the increased recharge of stormwater to supplement groundwater resources. Increased infiltration, though advantageous in several respects, must be carefully planned and closely monitored to avoid unwanted impacts. Increasing groundwater levels in areas where the depth to water is shallow could result in the saturation of soils close to the surface, potentially causing basement flooding. In addition, building foundations could be impacted by rising groundwater levels.

The adaptive management approach being employed for the LTCPU is an iterative process strongly dependent on monitoring. In order to quantify the impact of this long-term effort on groundwater resources, it is necessary to monitor groundwater levels in Philadelphia. PWD has partnered with USGS to increase the geographic scope and frequency of groundwater monitoring in the Philadelphia region. A City-wide groundwater level monitoring network will provide long-term monthly data documenting current water levels and trends in groundwater elevations throughout the City, helping to track the impacts of widespread implementation of stormwater management practices (SMPs) and global climate change.

Data from the groundwater monitoring network will also be used to calibrate a Philadelphia groundwater model and update the USGS groundwater contour map of Philadelphia (Paulachok 1984). In addition to this City-wide, long term groundwater monitoring program, PWD is conducting site-scale monitoring to address the effectiveness of individual SMPs. The City-wide groundwater monitoring network and site-scale monitoring at GSI facilities provide complementary information regarding the effects of stormwater management practices at different spatial and temporal scales.

## Methods

PWD and USGS identified existing wells that would be suitable for the network and obtained permission for site access. Once wells were identified and accessible, well condition and suitability for inclusion in the monitoring network were investigated by continuous water level monitoring and remote video camera inspection when accessible. Wells that met acceptance criteria were added to the monitoring network. After examining readily available information about existing wells, PWD elected to drill additional wells in order to provide better spatial distribution of wells in the monitoring network. USGS staff conduct groundwater observations monthly and upload water level data to the NWIS web server. PWD staff periodically download water level data from NWIS and summarize these data annually.

### Well Network Establishment

Existing wells in the Philadelphia area were identified by USGS and PWD through digital and paper archives as well as through contacting representatives of other City agencies and large institutional landowners (*e.g.*, Philadelphia Fire Department, Philadelphia Department of Parks and Recreation, Philadelphia Gas Works, Southeastern Pennsylvania Transportation Authority, etc.). Priority was given to wells on publicly-owned or large institutional land uses in order to help ensure that wells would remain accessible in the future. The primary goal was to develop a network of wells with a spatial distribution and density sufficient to assess groundwater levels throughout the City of

Philadelphia. Other criteria for establishment of the well network were:

- Sufficient density of wells in critical areas with a shallow water table
- No bias given to combined-sewered or separate-sewered areas
- Denser distribution of monitoring wells in the Northern Piedmont Ecoregion to reflect its more varied groundwater contours.

Wells that met acceptance criteria were assigned USGS location codes and added to the USGS well monitoring network and National Water Information System (NWIS) database. The well monitoring network contains 29 active sites that are monitored monthly. Additional sites are expected to be added once landowner access agreements are finalized or new wells are drilled.

### Video Camera Inspection

The availability of well attribute information varied from well to well and in most cases the physical characteristics and condition of candidate wells to be added to the network was unknown. USGS staff perform remote video camera inspection, when possible, to determine physical characteristics such as screened intervals, total depth, depth to bottom of casing, and the location of potential water-bearing zones within the bore hole. Wells narrower than 4" diameter and wells with pumps or other plumbing could not accommodate the camera equipment and were not inspected with this method.

### Continuous Water Level Monitoring

Monthly measurements are appropriate for monitoring long term trends in groundwater levels. However, it is important to verify that these monthly observations are representative of the unconfined aquifer and not influenced by anthropogenic activity or other conditions. USGS staff used data logging pressure transducers (LevelTroll model 500, In-Situ, Inc.) to conduct continuous water level monitoring in candidate wells. These sensors are vented to the surface of the well to provide atmospheric pressure correction. Continuous monitoring was carried out across all wells in the network to identify any aberrant trends, such as those that might be caused by local pumping operations. Sensors were deployed for three-month periods on a rotating schedule with five wells actively monitored at a time. Wells that appear to be influenced by permanent pumping operations will be removed from the monitoring network (*e.g.*, permanent wells dewatering the stadiums). Wells that are temporarily affected by local, dewatering operations (*e.g.*, a short term construction site), will remain in the system, but data collected during the period when dewatering operations affected the well will not be used in estimates of current water levels and water level trends.

### Routine Groundwater Observations

USGS staff conduct groundwater observations monthly at each well using a water sensor and graduated tape. Equipment is sterilized in 10% bleach solution prior to and after measurements are taken in order to prevent introducing or transferring contamination between wells. Well level measurements are converted to elevation above the North American Vertical Datum of 1988 (NAVD88) based upon the known elevation correction factor for each well. Water level data are recorded on site in field notebooks along with any pertinent field notes and then uploaded to the NWIS web server. PWD periodically downloads data from NWIS and summarizes these data annually.

## Monitoring Well Locations

Currently the well monitoring network contains 29 active sites that are monitored monthly. (Table 1, Figure 1). Of the 29 active wells, 11 are located within the Middle Atlantic Coastal Plain Ecoregion,

while the remaining 18 wells are located in the Northern Piedmont (Omernik 1987). As stated above, higher well density is required in the latter region to reflect the more complex geology and interactions with groundwater.

**Table 1.** PWD-USGS Groundwater Monitoring Well Network Locations.

| Site ID | Site Name | Lat. | Long. | Established |
|---|---|---|---|---|
| USGS-395342075102101 | PH 12 | 39.895 | -75.172 | 10/22/1978 |
| USGS-395353075151501 | PH 1052 | 39.898 | -75.254 | 3/7/2011 |
| USGS-395408075104001 | PH 63 | 39.902 | -75.177 | 9/14/1954 |
| USGS-395416075150301 | PH 1053 | 39.904 | -75.251 | 4/24/2003 |
| USGS-395459075140501 | PH 797 | 39.916 | -75.259 | 10/15/1980 |
| USGS-395516075113901 | PH 1051 | 39.921 | -75.194 | -- |
| USGS-395611075091301 | PH 1059 | 39.936 | -75.154 | 8/14/2014 |
| USGS-395656075100401 | PH 136 | 39.949 | -75.167 | 12/6/1978 |
| USGS-395656075104401 | PH 1064 | 39.948 | -75.178 | 6/5/2015 |
| USGS-395705075135901 | PH 1061 | 39.951 | -75.232 | 6/5/2015 |
| USGS-395849075134201 | PH 1063 | 39.98 | -75.228 | 6/5/2015 |
| USGS-395859075085401 | PH 1042 | 39.983 | -75.148 | 2/14/2011 |
| USGS-395942075144301 | MG 2164 | 39.995 | -75.245 | 2/14/2011 |
| USGS-400001075040301 | PH 1057 | 40 | -75.068 | 8/14/2014 |
| USGS-400016075102801 | PH 1062 | 40.004 | -75.174 | 6/5/2015 |
| USGS-400038075094601 | PH 1058 | 40.011 | -75.163 | 8/14/2014 |
| USGS-400055075122501 | PH 1060 | 40.015 | -75.206 | 6/5/2015 |
| USGS-400132075031001 | PH 1056 | 40.026 | -75.053 | 8/14/2014 |
| USGS-400211075093701 | PH 1050 | 40.036 | -75.16 | -- |
| USGS-400217075142101 | PH 540 | 40.038 | -75.239 | 3/29/1948 |
| USGS-400229075104601 | PH 1043* | 40.041 | -75.179 | 2/14/2011 |
| USGS-400308074592201 | PH 397 | 40.052 | -74.989 | 1/4/1979 |
| USGS-400311075101301 | PH 1040 | 40.053 | -75.17 | 2/17/2011 |
| USGS-400327075152201 | PH 1044 | 40.057 | -75.256 | 3/16/2011 |
| USGS-400424075104901 | PH 550 | 40.073 | -75.18 | --/--/1906 |
| USGS-400512075033401 | PH 1045 | 40.087 | -75.059 | 7/18/2011 |
| USGS-400516075033201 | PH 1046 | 40.088 | -75.059 | 7/18/2011 |
| USGS-400524075042601 | MG 2195 | 40.09 | -75.074 | -- |
| USGS-400527075042801 | MG 2193 | 40.091 | -75.074 | -- |
| USGS-400527075042802 | MG 2194 | 40.091 | -75.074 | -- |
| USGS-400644074590801 | PH 1041 | 40.112 | -74.986 | 2/17/2011 |

* Philadelphia County observation well

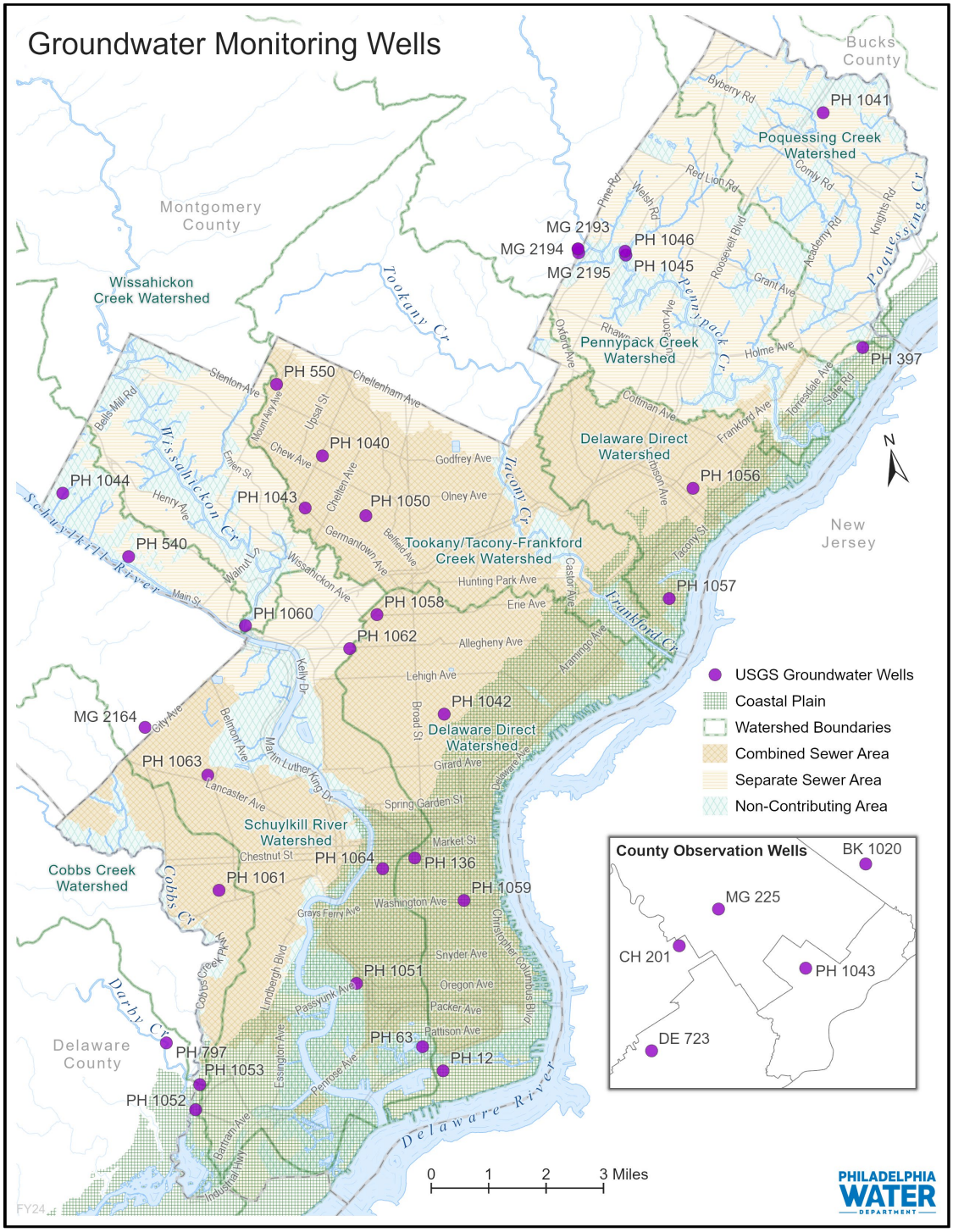



**Figure 1.** PWD-USGS Groundwater Monitoring Well Network Locations and (inset) County Reference Well Locations.

We
lls

were also classified according to predominant underlying geology and type of sewer system, *i.e.*, CSO or separate-sewered (Table 2, Figure 1). Another consideration for siting new wells was the potential influence of buried utilities and historic creek beds. During the period of rapid expansion of Philadelphia's grid-like network of streets, historic streams were encased in large brick sewers and buried in order to level and prepare land for development. Recent groundwater mapping and modeling work suggests that these brick sewers strongly influence local groundwater elevations (Paulachok 1991, Maimone et al. 2011).

**Table 2.** PWD-USGS Groundwater Well Geology and Sewer System Type Classification.

| Site ID | Site Name | Sewer Type | Geology |
|---|---|---|---|
| USGS-395353075151501 | PH 1052 | Separate | Trenton Gravel |
| USGS-395408075104001 | PH 63 | Separate | Trenton Gravel |
| USGS-395416075150301 | PH 1053 | Separate | Trenton Gravel |
| USGS-395516075113901 | PH 1051 | CSO | Magothy Raritan Potomac |
| USGS-395656075100401 | PH 136 | CSO | Trenton Gravel |
| USGS-395859075085401 | PH 1042 | CSO | Pennsauken and Bridgeton Formation |
| USGS-395942075144301 | MG 2164 | Separate | Granitic Gneiss and Granite |
| USGS-400211075093701 | PH 1050 | CSO | Wissahickon Formation |
| USGS-400217075142101 | PH 540 | Separate | Wissahickon Formation |
| USGS-400229075104601 | PH 1043 | CSO | Wissahickon Formation |
| USGS-400308074592201 | PH 397 | Separate | Trenton Gravel |
| USGS-400311075101301 | PH 1040 | CSO | Wissahickon Formation |
| USGS-400327075152201 | PH 1044 | Separate | Wissahickon Formation |
| USGS-400424075104901 | PH 550 | CSO | Wissahickon Formation |
| USGS-400512075033401 | PH 1045 | Separate | Granitic Gneiss and Granite |
| USGS-400516075033201 | PH 1046 | Separate | Granitic Gneiss and Granite |
| USGS-400527075042801 | MG 2193 | Separate | Wissahickon Formation |
| USGS-400527075042802 | MG 2194 | Separate | Wissahickon Formation |
| USGS-400644074590801 | PH 1041 | Separate | Wissahickon Formation |
| USGS-400132075031001 | PH 1056 | CSO | Wissahickon Formation |
| USGS-400001075040301 | PH 1057 | CSO | Trenton Gravel |
| USGS-400038075094601 | PH 1058 | CSO | Pennsauken Formation |
| USGS-395611075091301 | PH 1059 | CSO | Trenton Gravel |
| USGS-395459075140501 | PH 797 | CSO | Trenton Gravel |
| USGS-395656075104401 | PH 1064 | CSO | Trenton Gravel |
| USGS-395705075135901 | PH 1061 | CSO | Wissahickon Formation |
| USGS-395849075134201 | PH 1063 | CSO | Wissahickon Formation |
| USGS-400016075102801 | PH 1062 | Separate | Pennsauken Formation |
| USGS-400055075122501 | PH 1060 | Separate | Wissahickon Formation |

USGS maintains at least one reference well in most Pennsylvania counties. Reference wells located in neighboring counties (Figure 1, Table 3) may be used as regional reference wells for data analyses. Continuous hourly data are collected at well DE 723 in Delaware County. Reference wells in Chester, Bucks and Montgomery counties are not monitored continuously.

| Site ID | Site Name | Lat. | Long. | Established |
|---|---|---|---|---|
| USGS-400453075255601 | CH 201 Chester County Observation Well | 40.136 | -75.351 | 06/19/1978 |
| USGS-400808075210401 | MG 225 Montgomery County Observation Well | 40.199 | -75.052 | 08/15/1956 |
| USGS-401157075032001 | BK 1020 Bucks County Observation Well | 40.081 | -75.432 | 04/13/1968 |
| USGS-395512075293701 | DE 723 Delaware County Observation Well | 39.920 | -75.493 | 1983 |

## Data Analysis

USEPA (2009) published detailed guidance on statistical analysis of groundwater contaminant concentrations. In many of the examples, the same logic and techniques could apply to analysis of groundwater levels. In the case of the Philadelphia groundwater monitoring network, the goal is to understand if groundwater levels are changing over time, at either a single well or group of wells. The main statistical tests to be utilized are a) Seasonal Kendall Test, and b) ANOVA. The tests are briefly described below.

The Seasonal Kendall test performs the Mann-Kendall (MK) trend test for individual seasons of the year, where season is defined by the user. It then combines the individual results into one overall test for whether the dependent variable (*i.e.,* groundwater level) changes in a consistent direction (monotonic trend) over time. The magnitude (*i.e.*, slope) of the trend is also determined. The test is nonparametric, therefore non-normal data can be analyzed (Helsel *et al.* 2006). USEPA (2009) advises that at least 10-12 measurements are needed, whereas Helsel and Hirsch (2002) recommends that the product of number of years and number of seasons be greater than 25. Helsel *et al.* (2006) further caution that with more than 10 years of data, adjusted p-values should be calculated to account for the possibility of serial correlation. The Seasonal Kendall test can be applied to data from a single well, not multiple wells. To examine seasonal trends across multiple wells, the Covariance-Sum test is used (Lettenmaier 1988), which is essentially the execution of multiple seasonal Kendall tests and calculation of the covariances between them. To analyze regional trends over time from a group of wells, the Regional Kendall test can be applied. The Regional Kendall test essentially functions the same way as the Seasonal Kendall test, except the data is categorized by region rather than season.

An alternate method to analyze temporal trends on either a single well or group of wells is the analysis of variance (ANOVA). For a single well or group of wells with data subdivided by season, a one-way ANOVA would examine the significance of seasonality as a statistical factor. A two-way ANOVA would be applied to include location or region as a statistical factor. Either form of ANOVA assumes

that the datasets are normally distributed with constant variance. Group residuals should be tested for normality and for equality of variance. If the data cannot be transformed to a normal distribution, the nonparametric Kruskal-Wallis test can be used instead to detect significance of the specified statistical factor (USEPA 2009).

## Well Monitoring Data Summary

Well monitoring data were summarized from July 2024 to June 2025 (Tables 4-5). These data are presented as an update of the program status. Additional data analysis will be completed as part of the groundwater model calibration and groundwater map update reports. Groundwater trends will be analyzed further once a sufficient amount of data has been collected (See Data Analysis section).

**Table 4.** PWD-USGS Groundwater Monitoring Well Data 7/2024-6/2025, Depth to Water Level (Feet below Land Surface).

| Site ID | J | A | S | O | N | D | J | F | M | A | M | J |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 395353075151501 | 15.3 | 13.9 | 15.82 | 16.22 | 16.66 | 16.78 | 16.93 | 17.05 | 16.82 | 16.25 | 15.79 | 15.61 |
| 395408075104001 | 5.0 | 5.51 | 5.67 | | | | | | | | | |
| 395416075150301 | 9.91 | 9.18 | 10.87 | 11.2 | 11.46 | 11.99 | 12.3 | 11.95 | 11.47 | 10.46 | 9.82 | 9.73 |
| 395459075140501 | 13.51 | 12.57 | 13.84 | 14.43 | 10.41 | 8.69 | 10.98 | 14.91 | 13.95 | 13.36 | 1.79 | 12.64 |
| 395516075113901 | | | | | | | | | | | | |
| 395611075091301 | 26.01 | 25.59 | 25.25 | 26.42 | 26.74 | 26.86 | 27.3 | 27.54 | 27.61 | 27.45 | 27.27 | 26.92 |
| 395656075100401 | | | | | | | | | | | | |
| 395656075104401 | 8.3 | 5.02 | 11.77 | 15.57 | 17.76 | 19.27 | 15.71 | 18.58 | 3.4 | 2.24 | 2.73 | 7.64 |
| 395705075135901 | 15.22 | 14.8 | 15.64 | 15.96 | 16.17 | 15.59 | 15.42 | 14.8 | 14.62 | 13.94 | 13.97 | 14.24 |
| 395849075134201 | 13.38 | 10.56 | 13.76 | 13.84 | 14.02 | 14.06 | 14.19 | 14.65 | 13.78 | 13.44 | 13.05 | 13.12 |
| 395859075085401 | | | | | | | | | | | | |
| 395942075144301 | 16.26 | 14.74 | 17.35 | 19.21 | 18.51 | 17.18 | 16.82 | 16.19 | 18.18 | 17.65 | 15.99 | 15.09 |
| 400001075040301 | 14.9 | 14.71 | 14.87 | 15.2 | 15.9 | 14.92 | 14.92 | 15.16 | 15.1 | 14.71 | | |
| 400016075102801 | 10.96 | 10.8 | 10.14 | 11.22 | 10.94 | 10.94 | 11.08 | 10.94 | 11.21 | 10.59 | 9.49 | 9.99 |
| 400038075094601 | 19.66 | 19.82 | 19.71 | 19.97 | 20.42 | 20.07 | 20.19 | 19.9 | 19.98 | 19.23 | 19.83 | 19.76 |
| 400055075122501 | 10.71 | 11.38 | 10.94 | 9.86 | 9.49 | 12.13 | 16.1 | 15.53 | 15.54 | 15.22 | 14.99 | 15.41 |
| 400132075031001 | 21.02 | 20.11 | 21.09 | 22.13 | 22.77 | 21.68 | 21.89 | 22.13 | 22.04 | 21.8 | 20.87 | 20.98 |
| 400211075093701 | | | | | | | | | | | | |
| 400217075142101 | 26.87 | 24.99 | 27.93 | 29.17 | 30.95 | 31.48 | 31.52 | 32.06 | 32.66 | 33.53 | 33.62 | 31.54 |
| 400229075104601 | 16.43 | 15.89 | 16.63 | 16.99 | 17.1 | 16.62 | 16.41 | 15.89 | 16.19 | 15.22 | 15.2 | 15.84 |
| 400308074592201 | 4.41 | 5.17 | 5.79 | 6.59 | 7.61 | 7.69 | 8.14 | 8.03 | 7.69 | | 5.24 | 5.26 |
| 400311075101301 | 7.48 | 12.01 | 12.98 | 13.4 | 13.81 | 13.69 | 13.44 | 12.88 | 12.17 | 9.46 | 9.29 | 9.9 |
| 400327075152201 | 73.31 | 64.54 | 62.71 | 78.0 | 78.97 | 79.41 | 80.29 | 79.94 | 79.99 | 76.58 | 66.07 | 65.07 |
| 400424075104901 | 18.88 | 28.9 | 26.2 | 20.4 | | 21.29 | 21.34 | 20.14 | 20.63 | 21.45 | | 18.37 |
| 400512075033401 | 36.56 | 35.73 | 36.33 | | | | 36.76 | 36.99 | 36.96 | 34.85 | 35.53 | 35.39 |
| 400516075033201 | 29.33 | 29.88 | 30.55 | 30.89 | 31.31 | 31.68 | 31.99 | 32.14 | 32.39 | 32.69 | 32.59 | 32.49 |
| 400524075042601 | | | | | | | | | | | | |
| 400527075042801 | 20.96 | | 22.3 | 22.78 | 23.51 | 23.53 | 21.42 | 20.64 | 21.41 | 17.99 | 19.97 | 20.32 |
| 400527075042802 | 22.91 | | 24.85 | 25.63 | 26.2 | 26.51 | 25.96 | 25.39 | 25.18 | | 22.59 | 22.96 |
| 400644074590801 | 17.62 | 17.4 | 18.57 | 18.9 | 19.23 | 18.78 | 18.78 | 18.38 | 18.48 | 17.47 | 17.16 | 17.57 |

**Table 5.** Regional County Observation Well Data 7/2024 - 6/2025.

| Site ID | J | A | S | O | N | D | J | F | M | A | M | J |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 400453075255601 | 23.57 | 24.07 | 25.25 | 26.41 | 26.94 | 27.21 | 27.49 | 26.84 | 26.73 | 23.43 | 22.81 | 21.6 |
| 400808075210401 | | 15.94 | | 17.23 | | 18.51 | | 14.94 | | 12.95 | | 10.39 |
| 401157075032001 | 34.55 | 36.62 | 37.72 | 39.72 | | 41.68 | | 41.22 | | 29.8 | | |
| 395512075293701 | | 7.46 | | 8.08 | | 8.44 | | 8.27 | 7.59 | | | 7.08 |

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# Appendix I – PWD Wadeable Steams Benthic Macroinvertebrate and Physical Habitat Assessments

# PWD Wadeable Streams Benthic Macroinvertebrate and Physical Habitat Assessments

## Background

Since 1999, the Philadelphia Water Department (PWD) has been using benthic macroinvertebrate sampling and instream physical habitat assessments in order to characterize watershed conditions and track trends in watershed health. Assessments are performed by the staff of PWD's Bureau of Laboratory Services (BLS) using PADEP Instream Comprehensive Evaluation (ICE) methods. As benthic invertebrates may be exposed to both short and long-duration stressors, data collected through this program are pertinent to all targets of PWD's Integrated Watershed Management Plan (IWMP) Strategy.

### Common Acronyms Used in This Report

**IBI** - Index of Biotic Integrity, a biological assessment tool to indicate the capability of a stream to support a healthy aquatic community.
**ICE** - Instream Comprehensive Evaluation, a protocol to survey and evaluate wadeable streams.
**PTV** - Pollution Tolerance Values, a numeric measure of an organism's ability to withstand environmental degradation.
**EPT** - Ephemeroptera + Plecoptera + Trichoptera, the common names for pollution-sensitive mayflies, stoneflies and caddisflies.

## Assessment Study Design

Agencies tasked with evaluating water quality often attempt to incorporate statistical sampling designs, or a "probabilistic" approach, to selecting sampling sites (Paulsen 2008, Borsuk *et al*. 2001) rather than relying on fixed sites. Statistical sampling design is particularly important when the goal of monitoring is to make an estimate of the percentage of waters affected by pollution. Another advantage of probabilistic study design is that the assessment units are distributed over a larger geographic area. When monitoring efforts are directed at individual watersheds on a rotating basis, as has been the case with PWD programs, the possibility arises that larger scale patterns may be missed. For example, the effects of floods or drought conditions are widespread, but only the watershed that is being monitored within the same time period will have data reflecting these effects. Disadvantages of a probabilistic approach include the technical demands of establishing and randomly selecting from geographic data sets containing all possible sampling locations as well as additional field reconnaissance work when conducting the actual monitoring.

The current PWD monitoring strategy is intended to be a compromise, recognizing the benefits of collecting data from randomly selected sites but also the importance of maintaining a consistent monitoring effort at selected locations over time. This plan is based on a similar monitoring program implemented by USGS in Chester County (Reif 2002, Reif 2004). The plan also reflects the manpower

constraints of collecting and processing samples with the PADEP ICE protocol. It is hoped that this compromise approach (Table 1) will achieve some of the benefits of a randomized approach, while providing periodic re-evaluation of our watersheds required to inform the watershed planning process and comply with environmental mandates.

### Stream Conditions

This report summarizes results from samples that were collected between November 6 and 15, 2024. PWD is not aware of any spills, discharges or unusual conditions that would tend to cause misleading results.

**Table 1.** PWD Wadeable Streams Assessments Schedule

| Period | Monitoring Activity (number of samples) |
|---|---|
| 2011 | USGS gage samples (8); Randomly selected sites (16) |
| 2012 | Cobbs Creek Assessment (6*); USGS gage samples (9); Random (10) |
| 2013 | Tookany/Tacony Creek (10*); USGS gage samples (8); Random (7) |
| 2014 | Wissahickon Creek Tributaries (11); USGS gage samples (9); Random (5) |
| 2015 | Wissahickon Creek (12*); USGS gage samples (8); Random (2) |
| 2016 | Pennypack Creek Tributaries (11); USGS gage samples (9); Random (5) |
| 2017 | Pennypack Creek (12*); USGS gage samples (9); Random (4) |
| 2018 | Poquessing Creek (12*); USGS gage samples (9); Random (4) |
| 2019 | Schuylkill River Tributaries (3); USGS gage samples (8); Random (3) |
| 2020 | USGS gage samples (6); Random (2) |
| 2021 | Cobbs Creek (6*); USGS gage samples (9); Random (7) |
| 2022 | Tookany/Tacony Creek (10*); USGS gage samples (9); Random (6) |
| 2023 | Wissahickon Creek Tributaries (12); USGS gage samples (9); Random (1) |
| 2024 | USGS gage samples (9) |

* Number of monitoring sites excludes USGS gage sites in target watershed

## Methods

### Benthic Macroinvertebrate Sample Collection

Using the PADEP Instream Comprehensive Evaluation (ICE) protocol (PADEP 2009), macroinvertebrate samples were collected by placing a handheld D-frame net (500µm) at the

downstream portion of a riffle. Stream substrate directly upstream of the D-frame net was then disturbed for approximately one minute to a depth of approximately 10 cm as substrate allowed. This procedure was repeated at other riffle locations of variable flow within the 100-m reach such that the sample at each station was a composite of six riffle samples. Composited samples from each biological monitoring location were then preserved in 95% ETOH (ethyl alcohol) and returned to the laboratory in polyethylene containers.

## Benthic Macroinvertebrate Laboratory Procedures

Benthic macroinvertebrate samples were processed according to PADEP ICE protocols (PADEP 2009). Each composited sample was placed into an 18 x 12 x 3.5-inch pan marked with 28 four-square-inch grids. Four grids were randomly selected by drawing numbers. All material was extracted from the selected grids using a four-square-inch circular "cookie cutter," and placed into another identical empty pan. From this second pan, organisms were picked from randomly selected grids or “plugs” until a minimum of 200, but not more than 240, individuals were subsampled. This procedure was a misinterpretation of the actual technique, which stipulates a count of 200 (+/- 20%) individuals. When picking either the four initial “plugs” or additional plugs results in subsampling more than 240 individuals, the PADEP ICE protocol outlines a procedure for redistributing the subsample into a clean, gridded pan and “back counting” grids until a subsample consisting of 200 (+/-20%) is obtained. Invertebrates were identified under magnification, with taxonomic classification following PADEP 2009 guidelines.

## Habitat Assessment

After collecting benthic invertebrates, biologists surveyed habitat features within the monitoring station and recorded scores for 12 habitat attributes according to the PADEP ICE protocol (Table 2). Biologists completed the survey independently and then discussed the interpretation of individual habitat attribute scores, averaging individual scores when necessary.

**Table 2.** PA DEP ICE Protocol Habitat Metrics

| Habitat Parameter | Description |
|---|---|
| Instream Cover (Fish) | Mix of boulder, cobble or other stable habitat |
| Epifaunal Substrate | Length/width of riffles; characterization of boulders, gravel, cobble |

| | |
|---|---|
| Embeddedness | Presence/absence of fine sediment around boulders, gravel, cobble |
| Velocity/Depth Regimes | Presence/absence of four velocity/depth regimes |
| Channel Alteration | Degree of channelization or dredging |
| Sediment Deposition | Measure of sediment deposits, degree of change at the bottom |
| Frequency of Riffles | Occurrence of riffles and distance between riffles |
| Channel Flow Status | Degree to which water fills the available channel |
| Condition of Banks | Stability of streambanks and presence of erosion or bank failure |
| Bank Vegetative Protection | Percentage of streambank surface covered by vegetation |
| Grazing or Other Disruptive Pressure | Degree to which vegetation disrupted by grazing or mowing |
| Riparian Vegetative Zone Width | Width of riparian zone and determination of impact on vegetation by human activities |

## Data Analysis

Benthic macroinvertebrate and habitat data were compiled in a Microsoft Access database and queries were used to calculate scoring metrics. Individual metric standardized scores and the PADEP Index of Biotic Integrity (IBI) were calculated using the ICE protocol (Table 3).

**Table 3.** PADEP ICE Protocol Metrics and Metric Standardization Values

| Metric | Standardization Value |
|---|---|
| Total Taxa Richness | 33 |
| EPT Taxa Richness (PTV 0-4) | 19 |
| Beck's Index, version 3 | 38 |

| | |
|---|---|
| Hilsenhoff Biotic Index | 1.89 |
| Shannon Diversity | 2.86 |
| Percent Sensitive Individuals (PTV 0-3) | 84.5 |

## Monitoring Locations

Assessments were performed at 9 USGS gage sites between 11/6/2024 and 11/15/2024. (Figure 1, Table 4). USGS stream gaging stations are used as long-term monitoring points at which streamflow and continuous water chemistry data are collected (refer to PWD-USGS Cooperative Water Quality Monitoring appendix). Water chemistry grab sampling for nutrient and bacterial parameters is also conducted at these USGS gage stations on a quarterly basis (refer to PWD Quarterly Dry Weather Water Quality Monitoring appendix). Combining different forms of monitoring at the same station allows for better integration of information and may enable more sophisticated analyses in the future. In some cases, when USGS gage sites are not appropriate or accessible for bioassessment activities, a nearby upstream or downstream location is used to collect macroinvertebrates and assess habitat conditions.

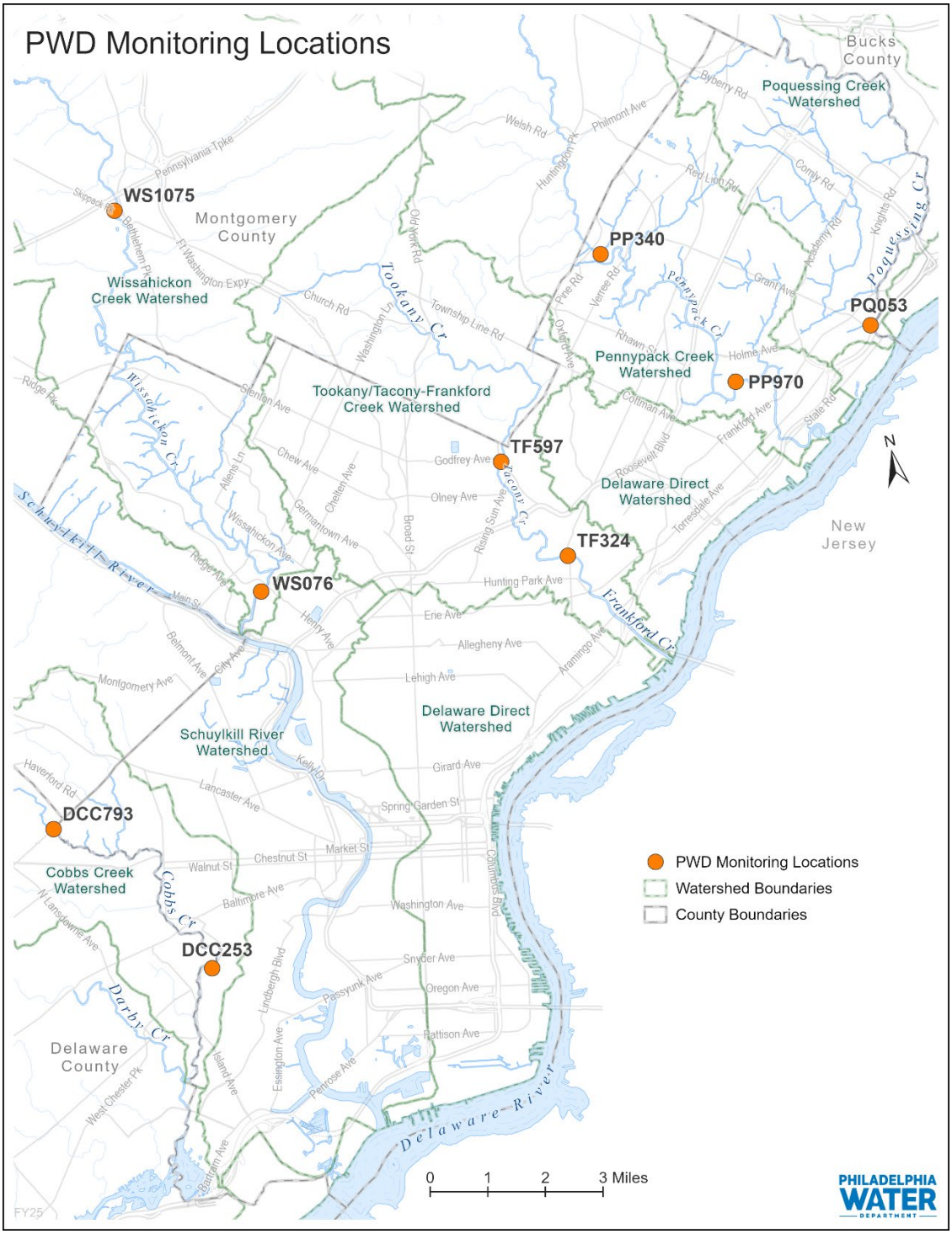



**Figure 1.** PWD Wadeable Streams Assessment Locations – Fall 2024

**Table 4.** PWD-USGS Cooperative Monitoring Program Sites

| Site ID | USGS Gage | Site Description | Drainage Area ($mi^2$) |
|---|---|---|---|
| DCC253 | 01475548 | Cobbs Creek at Mount Moriah Cemetery | 19.78 |
| DCC793 | 01475530 | Behind Grange Estate, off private road (Myrtle Street) | 4.60 |
| PP340 | 01467048 | Pennypack Creek at Lower Rhawn St bridge | 49.84 |
| PP970 | 01467042 | Pennypack Creek at Pine Rd. | 39.34 |
| PQ053 | 01465798 | Poquessing Creek at Holy Family College | 21.67 |
| TF324 | 01467087 | Frankford Creek at Castor Ave. | 29.69 |
| TF597 | 01467086 | Tacony Creek below Adams Ave. Bridge | 16.25 |
| WS076 | 01474000 | Wissahickon Creek at Ridge Ave. | 63.22 |
| WS1075 | 01473900 | Wissahickon Creek at Ft. Washington | 40.44 |

## Benthic Macroinvertebrate Monitoring Results - Fall 2024

This report presents macroinvertebrate monitoring results from 9 sites sampled in fall 2024. A total of 1,935 benthic macroinvertebrates from 32 taxa were collected from the 9 sampling sites. When compared to PADEP ICE protocol metric reference conditions, all assessment sites were classified as impaired and fell below 50% comparability, meaning that they are not meeting the Aquatic Life Use (ALU) designation (Figure 2). Percent comparability with the standard reference IBI score ranged from 25.1% to 31.7%. All sites were characterized by low taxa richness, low or absent EPT taxa, and elevated Hilsenhoff Biotic Index scores (Table 5, Figure 2).

**Table 5.** PADEP ICE Metric Scores

| Site ID | Taxa Richness | EPT richness (PTV 0-4) | Beck's Index | HBI | Shannon Index | % Sensitive individuals | IBI score |
|---|---|---|---|---|---|---|---|
| DCC251 | 12 | 1 | 0 | 5.98 | 1.632 | 1.961 | 25.1 |
| DCC793 | 10 | 1 | 0 | 5.24 | 1.688 | 3.153 | 26.2 |
| PP340 | 18 | 2 | 0 | 6.07 | 2.168 | 0.493 | 31.7 |
| PP970 | 13 | 1 | 0 | 5.51 | 1.959 | 1.449 | 28.4 |
| PQ053 | 12 | 0 | 1 | 5.66 | 1.688 | 2.404 | 25.7 |
| TF324 | 15 | 1 | 0 | 6.17 | 2.220 | 0.000 | 29.3 |
| TF597 | 12 | 1 | 0 | 5.87 | 1.688 | 2.174 | 25.7 |
| WS1075 | 14 | 1 | 0 | 6.07 | 1.999 | 2.315 | 28.1 |
| WS076 | 13 | 2 | 0 | 5.73 | 1.697 | 0.000 | 27.0 |

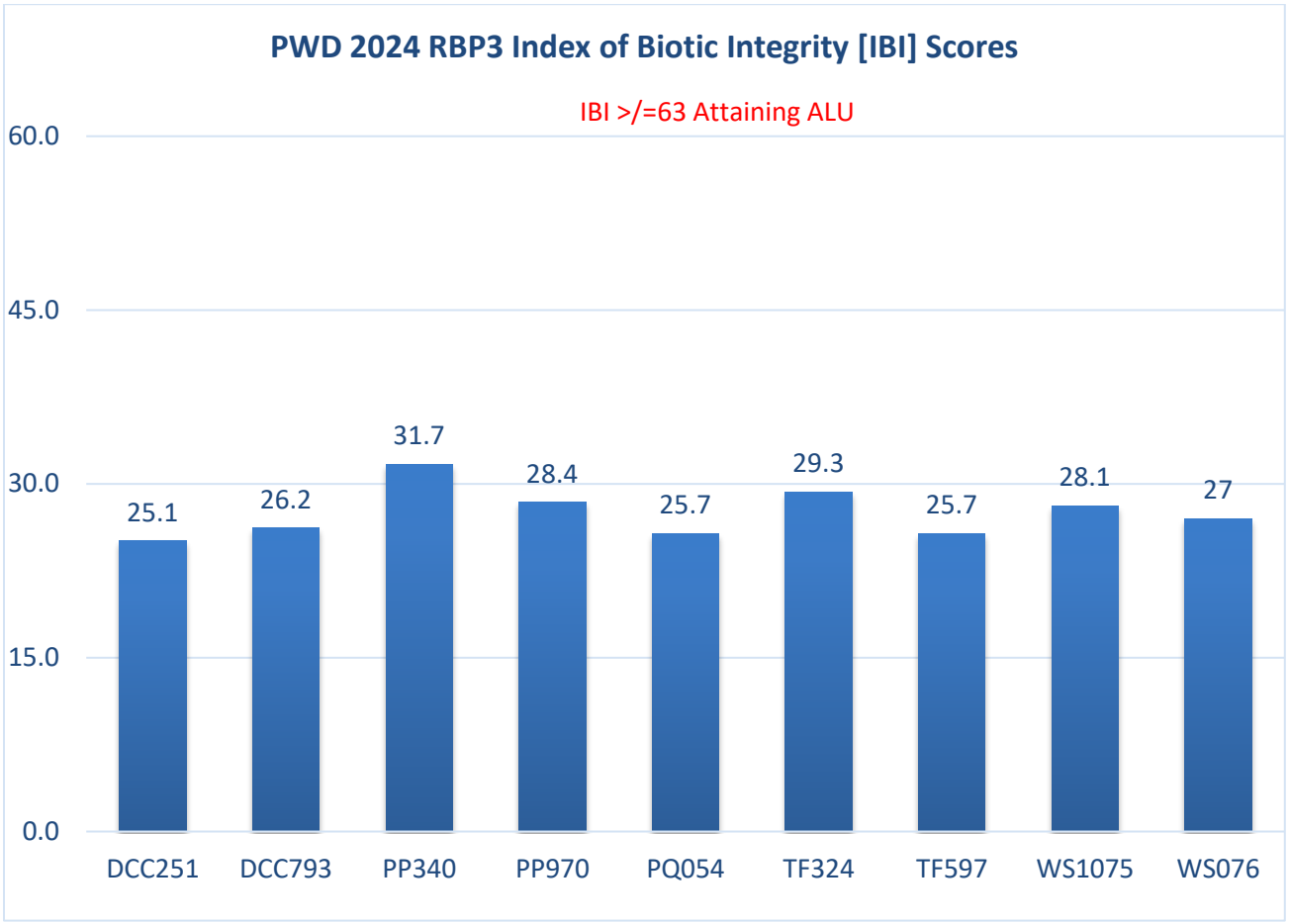



**Figure 2.** Fall 2024 Macroinvertebrate IBI Scores

Very sensitive taxa (pollution tolerance value ≤ 2) were present at 1 of the 9 sites assessed in fall 2024. All sites fell below the PADEP reference standard for Percent Intolerant Taxa metric (PTV = 0 to 3) of 84.5%.

Overall diversity was low among all sites. The Shannon Diversity Index scores for all sites ranged from 1.632 to 2.220, compared to the reference metric value of 2.86. The site with the greatest diversity was the Pennypack Creek site PP340 with a taxa richness of 18, Shannon Diversity Index of 2.168, EPT taxa richness of 2, and HBI of 6.07.

The Hilsenhoff Biotic Index (HBI) is a metric used to determine the overall pollution tolerance of a site's benthic macroinvertebrate community. This community composition and tolerance metric generally increases with increasing ecosystem stress, resulting in increasing dominance of pollution-tolerant organisms. Oriented toward the detection of organic pollution, HBI scores can range from 0 (very sensitive) to 10 (very tolerant). The average HBI for all sites was 5.81, and scores at the 9 assessment sites ranged from 5.24 to 6.17.

Tolerance/intolerance measures are intended to be representative of relative sensitivity to perturbation and may include numbers of pollution tolerant and intolerant taxa or percent composition (Barbour *et al*., 1999). The proportion of moderately tolerant individuals at all sites ranged from 21.96% to 90.87%. The site with the greatest proportion of moderately tolerant taxa was PQ053, with 90.87% dominance related to a high number of *Cheumatopsyche* (n=89) and species within the Chironomidae family (n=47), both found within the sorted sample (n=208). *Cheumatopsyche* (Figure 3) and *Hydropsyche* were the dominant taxa at 3 of the 9 sites each. Chironomids, *Caecidotea* and *Gammarus* dominated at 1 site each. The proportional dominance of these intolerant and moderately tolerant taxa is evidence of increasingly homogeneous community assemblages within selected monitoring sites. Pollution-tolerant, generalist species increase in proportional dominance with increased disturbance due to the loss of optimal habitat conditions for less tolerant, more specialized species.



**Figure 3.** *Cheumatopsyche*, or net spinning caddisfly
Photo: Sarah McManus, 2011

The proportion of tolerant taxa at each monitoring site ranged from 1.44% to 26.64%. Intolerant taxa were similarly represented. The proportion of intolerant taxa at each site ranged from 3.91% to 33.78%. The Cobbs Creek site near the Grange Estate (DCC793) had the highest proportion of intolerant taxa.

Sensitive taxa (pollution tolerance values ≤ 3) were collected at 7 of the 9 sites (Table 6). However, the rarity of sensitive taxa suggests a response to watershed-wide perturbation, such as water quality degradation. Other potential explanations for the rarity of sensitive taxa are habitat degradation caused by fine sediment delivered to the stream channel via bank erosion or stormwater runoff and changes in seasonal base flow and temperature that tend to accompany urbanization. *Antocha* (Diptera; Tipulidae, pollution tolerance value =3) were the most commonly collected sensitive taxa.

**Table 6.** Sensitive Taxa Collected

| Site | Order | Family | Genus | HBI |
|---|---|---|---|---|
| DCC251 | Diptera | Tipulidae | *Antocha* | 3 |
| DCC793 | Diptera | Tipulidae | *Antocha* | 3 |
| PP340 | Diptera | Tipulidae | *Antocha* | 3 |
| PP970 | Diptera | Tipulidae | *Antocha* | 3 |
| PQ053 | Diptera | Tipulidae | *Antocha* | 3 |
| PQ053 | Coleoptera | Elmidae | *Ancryonyx* | 2 |
| TF597 | Diptera | Tipulidae | *Antocha* | 3 |

**Table 7.** 2024 Benthic Macroinvertebrate Taxa List

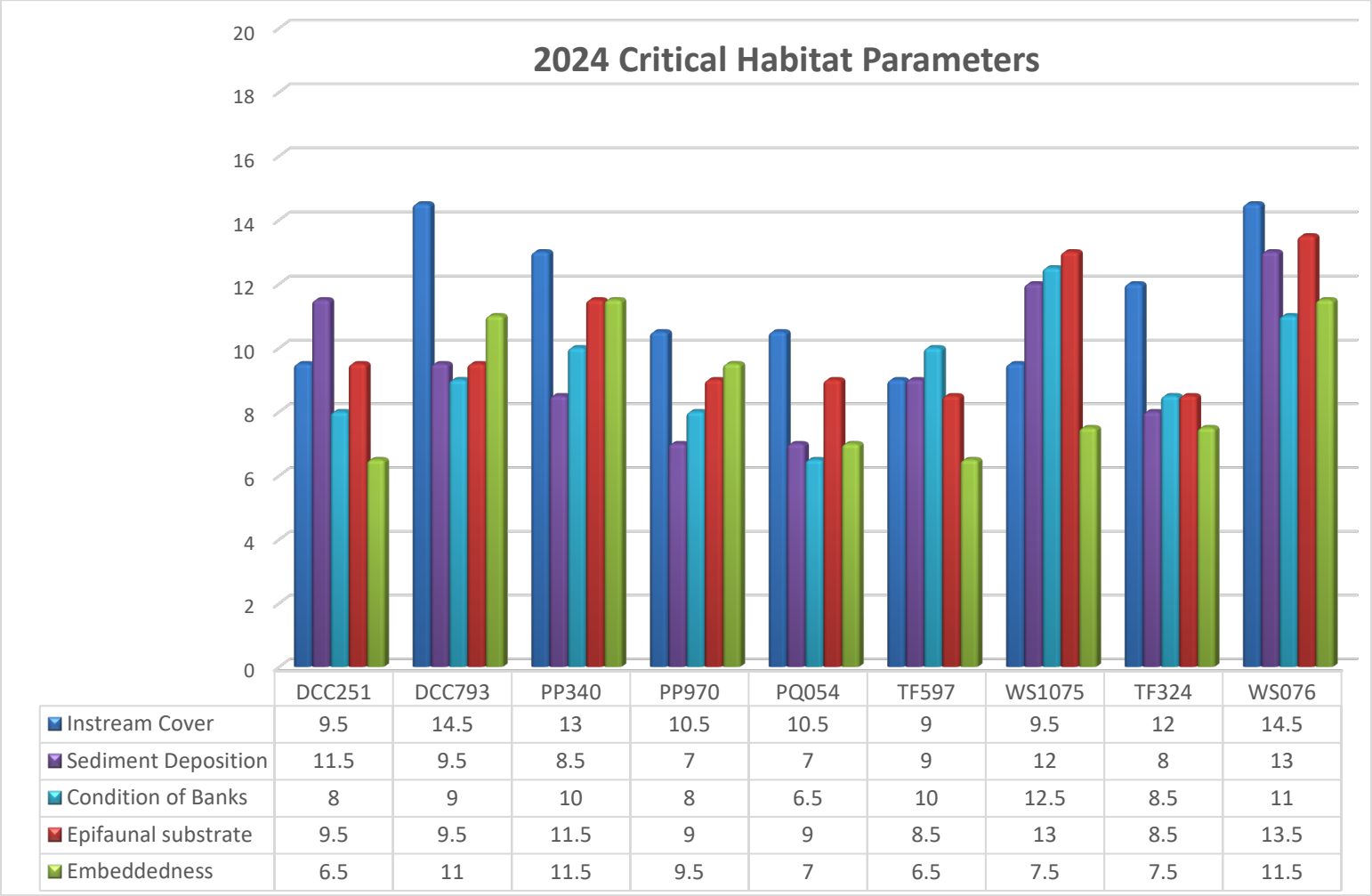
| Order | Family | Genus |
|---|---|---|
| Amphipoda | Gammaridae | *Gammarus* |
| Amphipoda | Crangonyctidae | *Crangonyx* |
| Bivalvia | Corbiculidae | *Corbicula* |
| Coleoptera | Elmidae | *Stenelmis* |
| Coleoptera | Elmidae | *Ancryonyx* |
| Coleoptera | Psephenidae | *Ectopria* |
| Coleoptera | Hydrophilidae | *Berosus* |
| Diptera | Chironomidae | |
| Diptera | Simuliidae | *Simulium* |
| Diptera | Tipulidae | *Antocha* |
| Diptera | Tipulidae | *Tipula* |
| Diptera | Empididae | *Hemerodromia* |
| Ephemeroptera | Baetidae | *Baetis* |
| Ephemeroptera | Heptageniidae | *Stenacron* |
| Gastropoda | Ancylidae | |
| Gastropoda | Lymnaeidae | |
| Hemiptera | Gerridae | *Metrobates* |
| Hirudinea | | |
| Hydracarina | Water Mites | |
| Isopoda | Asellidae | *Caecidotea* |
| Lepidoptera | Crambidae | *Petrophila* |
| Oligochaeta | | |
| Trichoptera | Hydropsychidae | *Hydropsyche* |
| Trichoptera | Hydropsychidae | *Cheumatopsyche* |
| Trichoptera | Philopotamidae | *Chimarra* |
| Trichoptera | Hydroptilidae | *Hydroptila* |
| Trichoptera | Hydroptilidae | *Leucotrichia* |
| Turbellaria | Planariidae | |
| Turbellaria | Nemertea | |
| Zygoptera | Coenagrionidae | *Argia* |

## Physical Habitat Monitoring Results - Fall 2024

Habitat impairments such as hydrologic extremes (*i.e.,* low base flow and accentuated flow during storm events), physical obstructions, and sedimentation/siltation appear to be the major environmental stressors on the aquatic ecosystem. Accumulation of sediment in the interstitial spaces of riffles has been shown to limit available habitat and possibly smother benthic invertebrate life stages (Runde and Hellenthal, 2000). Six out of 9 sites received suboptimal total scores for habitat (Table 8). The Wissahickon Creek site downstream of Skippack Bridge (WS1075) achieved the highest total score. The Tacony Creek site behind Ferko playground (TF324) had the lowest total habitat score of all sites (Table 8, Figure 4).

**Table 8.** Physical Habitat Scores at All Monitoring Sites - Fall 2024

| Site ID | Instream | Epifaunal | Embed | Veldep | Chanalt | Seddep | Riffreq | Chanflo | Bankcond | Vegpro | Graze | Ripveg | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DCC251 | 9.5 | 9.5 | 6.5 | 11.5 | 13 | 11.5 | 11 | 9.5 | 8 | 14 | 14 | 14 | 132 |
| DCC793 | 14.5 | 9.5 | 11 | 16 | 16 | 9.5 | 13 | 10 | 9 | 16 | 17 | 17.5 | 159 |
| PP340 | 13 | 11.5 | 11.5 | 16 | 15 | 8.5 | 9.5 | 9 | 10 | 16 | 16 | 16 | 152 |
| PP970 | 10.5 | 9 | 9.5 | 16.5 | 16 | 7 | 12 | 8 | 8 | 12.5 | 9.5 | 9.5 | 128 |
| PQ053 | 10.5 | 9 | 7 | 12 | 15 | 7 | 10 | 9 | 6.5 | 15.5 | 15.5 | 11.5 | 128.5 |
| TF324 | 12 | 8.5 | 7.5 | 12 | 10 | 8 | 9.5 | 9.5 | 8.5 | 14.5 | 13 | 9.5 | 122.5 |
| TF597 | 9 | 8.5 | 6.5 | 12 | 12 | 9 | 8 | 11.5 | 10 | 16 | 17 | 14 | 133.5 |
| WS076 | 14.5 | 13.5 | 11.5 | 17 | 9.5 | 13 | 9.5 | 9 | 11 | 9 | 10 | 8.5 | 136 |
| WS1075 | 9.5 | 13 | 7.5 | 16 | 15 | 12 | 9.5 | 14.5 | 12.5 | 17 | 17 | 16.5 | 160 |




| | DCC251 | DCC793 | PP340 | PP970 | PQ054 | TF597 | WS1075 | TF324 | WS076 |
|---|---|---|---|---|---|---|---|---|---|
| Instream Cover | 9.5 | 14.5 | 13 | 10.5 | 10.5 | 9 | 9.5 | 12 | 14.5 |
| Sediment Deposition | 11.5 | 9.5 | 8.5 | 7 | 7 | 9 | 12 | 8 | 13 |
| Condition of Banks | 8 | 9 | 10 | 8 | 6.5 | 10 | 12.5 | 8.5 | 11 |
| Epifaunal substrate | 9.5 | 9.5 | 11.5 | 9 | 9 | 8.5 | 13 | 8.5 | 13.5 |
| Embeddedness | 6.5 | 11 | 11.5 | 9.5 | 7 | 6.5 | 7.5 | 7.5 | 11.5 |

**Figure 4.** Critical Habitat Parameter Scores, Fall 2024

## References

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Reif, A.G. 2004. Assessment of water chemistry, habitat, and benthic macroinvertebrates at selected stream-quality monitoring sites in Chester County, Pennsylvania, 1998-2000: 84.

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# Appendix J – NPDES Industrial Stormwater Permitted Sites – Philadelphia County

| Authority ID | Authority Type | Site Name | Address | City | State | Zip Code |
|---|---|---|---|---|---|---|
| 918510 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | L3HARRIS MARITIME POWER & ENERGY SOLUTIONS INC | 13500 ROOSEVELT BLVD | PHILADELPHIA | PA | 19116-4201 |
| 1428247 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | ZENTIS NORTH AMERICA | 1741 TOMLINSON RD | PHILADELPHIA | PA | 19116 |
| 1428323 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | RICHARDSAPEX MAIN ST FAC | 4202-24 MAIN ST | PHILADELPHIA | PA | 19127 |
| 1431003 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | WASTE MGMT BLEIGH AVE FAC | 5109 BLEIGH AVE | PHILADELPHIA | PA | 19136 |
| 1431377 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | WASTE MGMT OF PA GRAYS FERRY AVE FAC | 3605 GREYS FERRY AVE | PHILADELPHIA | PA | 19146 |
| 1431718 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | ORTHODOX AUTO UNRUH AVE FAC | 5247 UNRUH AVE | PHILADELPHIA | PA | 19135 |
| 1431848 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | PHILA GAS WORKS PASSYUNK AVE PLT | 3100 PASSYUNK AVE | PHILADELPHIA | PA | 19145 |
| 1431887 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | NORTHEAST PHILADELPHIA AIRPORT (PNE) | 9800 ASHTON RD | PHILADELPHIA | PA | 19114 |
| 1431890 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | CLEAN EARTH OF PHILA FAC | 3201 S 61ST ST | PHILADELPHIA | PA | 19153-3502 |
| 1431924 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | PEPSI BOTTLING ROOSEVELT BLVD PLT | 11701 ROOSEVELT BLVD | PHILADELPHIA | PA | 19154-2108 |
| 1431938 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | LKQ VENICE AUTO PARTS | 3350 SOUTH 61ST STREET | PHILADELPHIA | PA | 19153 |
| 1432452 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | S D RICHMAN SONS WHEATSHEAF LN FAC | 2435 WHEATSHEAF LANE | PHILADELPHIA | PA | 19137 |
| 1433289 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | ALLEGHENY IRON & METAL TACONY ST FAC | TACONY ST & ADAMS AVE | PHILADELPHIA | PA | 19124 |
| 1433315 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | ADVANSIX RESINS AND CHEMICALS LLC FRANKFORD PLT | MARGARET & BERMUDA STS | PHILADELPHIA | PA | 19137-1193 |
| 1433495 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | BWC TERMINALS-PHILADELPHIA | 2900 E ALLEGHENY AVE | PHILADELPHIA | PA | 19134-6302 |
| 1433799 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | ABF FREIGHT SYSTEM RICHMOND ST FACILITY | 4000 RICHMOND ST | PHILADELPHIA | PA | 19137 |
| 1434116 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | CSX INTERMODAL CHRISTOPHER COLUMBUS AVE FAC | 3400 S CHRISTOPHER COLUMBUS BLVD | PHILA | PA | 19148 |
| 1434128 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | TJ COPE NORCOM RD FAC | 11500 NORCOM RD | PHILA | PA | 19154 |
| 1434268 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | UNITED METAL TRADERS COMLY ST FAC | 5240 COMLY ST | PHILADELPHIA | PA | 19135-4315 |
| 1435103 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | REPUBLIC SVC OF PA PHILADELPHIA HAULING FAC | 3000 E HEDLEY ST | PHILADELPHIA | PA | 19137 |
| 1435301 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | VANE LINE BUNKERING FT MIFLIN RD FAC | 4925 FT MIFLIN RD | PHILA | PA | 19153 |
| 1435425 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | PACKER AVE MARINE TERMINAL | 3301 S COLUMBUS BLVD | PHILA | PA | 19148 |
| 1436473 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | REPUBLIC SVC QUICKWAY TRANSFER STATION | 2960 ORTHODOX ST | PHILADELPHIA | PA | 19137 |
| 1436694 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | US POSTAL SVC LINDBERGH BLVD FAC | 7500 LINDBERGH BLVD | PHILADELPHIA | PA | 19176-9998 |
| 1438285 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | SUN CHEM HUNTING PARK AVE PLT | 3301 HUNTING PARK AVE | PHILADELPHIA | PA | 19132 |
| 1482556 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | ATLANTIC USED AUTO PARTS ESSINGTON AVE FAC | 6544 ESSINGTON AVE | PHILA | PA | 19153 |
| 1484214 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | ESSINGTON AVE USED AUTO PARTS FAC | 6746 ESSINGTON AVE | PHILA | PA | 19153 |
| 1487882 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | ATLANTIC AVIATION ENTERPRISE AVE FAC | 8375 ENTERPRISE AVE | PHILADELPHIA | PA | 19153 |
| 1502503 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | JACK'S AUTO PARTS S 61ST ST FAC | 3517-3555 S 61ST ST | PHILA | PA | 19153 |
| 1502927 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | ALPHA SHREDDING GROUP PHILA | 6330 W PASSYUNK AVE | PHILA | PA | 19153 |
| 1036930 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | NDV SCRAP METAL INC | 3630 N 2ND ST | PHILADELPHIA | PA | 19140-4605 |
| 1219023 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | BRITTON IND INC | NA | NA | NA | NA |

| Authority ID | Authority Type | Site Name | Address | City | State | Zip Code |
|---|---|---|---|---|---|---|
| 1229352 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | JT'S USED AUTO PARTS S 61ST ST FAC | 3505 S 61ST ST | PHILADELPHIA | PA | 19153 |
| 1240082 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | TRC TRANSFER STATION COLUMBUS BLVD FAC | 2904 S CHRISTOPHER COLUMBUS BLVD | PHILADELPHIA | PA | 19148 |
| 1264620 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | C&E AUTO PARTS ESSINGTON AVE | 6796 ESSINGTON AVE | PHILA | PA | 19153 |
| 1389066 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | DHL EXPRESS HOLSTEIN AVE FAC | 7600 HOLSTEIN AVE | PHILA | PA | 19153 |
| 21593 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | METRO MACH OF PA SHIP REPAIR FAC | NA | NA | NA | NA |
| 326466 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | PAARNG SOUTHAMPTON FAC | 2734 SOUTHAMPTON RD | PHILADELPHIA | PA | 19154 |
| 326472 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | PAARNG OGONTZ OMS 14A | 5350 OGONTZ AVE | PHILADELPHIA | PA | 19141 |
| 326557 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | PAARNG FT MIFFLIN FAC | BLDG 56 FORT MIFFLIN | PHILADELPHIA | PA | 19153 |
| 383091 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | FEDEX GREYS FERRY AVE FAC | 3600 GRAYS FERRY AVE | PHILADELPHIA | PA | 19146 |
| 459790 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | PHILA WATER DEPT SE WPCP | 25 PATTISON AVE | PHILADELPHIA | PA | 19148-5607 |
| 459812 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | PHILA WATER DEPT SW WPCP | 8200 ENTERPRISE AVE | PHILADELPHIA | PA | 19153-3813 |
| 459823 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | PHILA WATER DEPT NE WPCP | 3895 RICHMOND ST | PHILADELPHIA | PA | 19137-1418 |
| 577993 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | DHL EXPRESS COLUMBUS BLVD FAC | 1101 N CHRISTOPHER COLUMBUS BLVD | PHILADELPHIA | PA | 19125 |
| 701610 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | SMALL TIME OPERATOR AUTO PARTS JAMES ST FAC | NA | NA | NA | NA |
| 1020028 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | DAVE'S DELAWARE VALLEY TOWING PASSYUNK AVE FAC | 6159 PASSYUNK AVE | PHILA | PA | 19153 |
| 1033629 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | JIM'S AUTO RECYCLING W PASSYUNK AVE FAC | 6299 W PASSYUNK AVE | PHILA | PA | 19153 |
| 1039992 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | BIG HEAD AUTO SALVAGE CORP | 3511 S 61ST ST | PHILADELPHIA | PA | 19153 |
| 1041802 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | B & L AUTO PARTS 61ST STREET FAC | 3404 S 61ST ST | PHILADELPHIA | PA | 19153 |
| 1044986 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | STEVE'S AUTO PARTS II S 61ST ST FAC | 3331 S 61ST ST | PHILA | PA | NA |
| 1056063 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | KANCO METALS INC | 4601 BATH ST | PHILADELPHIA | PA | 19137-2216 |
| 1086796 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | ECO ENERGY PHILLY | 3400 S CHRISTOPHER COLUMBUS BLVD | PHILADELPHIA | PA | 19148-5110 |
| 1223833 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | RECLEIM PA LLC PHILA PLT | 4301 N DELAWARE AVE | PHILADELPHIA | PA | 19137 |
| 1428081 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | KINGSBURY | 10385 DRUMMOND RD | PHILADELPHIA | PA | 19154 |
| 1429658 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | DUFFEY OIL TERM | 2700 ROBERTS AVE | PHILADELPHIA | PA | 19129 |
| 1431928 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | NAVAL FOUNDRY AND PROPELLER CTR | 1701 KITTY HAWK AVE | PHILADELPHIA | PA | 19112-5087 |
| 1432373 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | MARINE LUBRICANTS, INC-PHILLY | 4700 BASIN BRIDGE RD | PHILADELPHIA | PA | 19112 |
| 1432752 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | AMAZON.COM SERVICES LLC-DDP1 | 2900 GRANT AVE | PHILADELPHIA | PA | 19114-2310 |
| 1433049 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | RHOADS BUILDING 1028 | 4703 BASIN BRIDGE ROAD | PHILADELPHIA | PA | 19112 |
| 1433194 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | ARDEX LAB | 2050 BYBERRY RD | PHILADELPHIA | PA | 19116 |
| 1433318 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | TASTYKAKE | 2801 HUNTING PARK AVE | PHILADELPHIA | PA | 19129 |
| 1433457 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | CONRAIL - FRANKFORD JUNCTION YARD | 2110 E BUTLER ST | PHILADELPHIA | PA | 19124 |
| 1433473 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | CONRAIL - SOUTH PHILLY YARD | 11TH ST & TERMINAL RD | PHILADELPHIA | PA | 19112 |

| Authority ID | Authority Type | Site Name | Address | City | State | Zip Code |
|---|---|---|---|---|---|---|
| 1433494 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | CONRAIL - ANN STREET YARD | 2801 E ANN STREET | PHILADELPHIA | PA | 19134 |
| 1435081 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | AMAZON.COM SERVICES LLC DDP9 | 3025 MEETING HOUSE RD | PHILADELPHIA | PA | 19154 |
| 1435091 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | AMAZON.COM SERVICES LLC - DPH8 | 7575 BREWSTER AVE | PHILADELPHIA | PA | 19153-3206 |
| 1440891 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | DURHAM SCH SRVS CSC - 4091 | 4101 N DELAWARE AVE | PHILADELPHIA | PA | 19137-1939 |
| 1459739 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | AMAZON.COM SVC LLC DDP9 PKG PHILADELPH5 | 2703 BLACK LAKE PL | PHILADELPHIA | PA | 19154 |
| 1459776 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | AMAZON.COM SVC LLC DPH8 PKG PHILADELPH4 | 6729-6733 ESSINGTON AVE | PHILADELPHIA | PA | 19153 |
| 1472255 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | MAOLA PHILADELPHIA FACILITY | 10975 DUTTON RD | PHILADELPHIA | PA | 19154-3203 |
| 1489490 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | FEDEX TOWNSEND RD FAC | 14300 TOWNSEND RD | PHILA | PA | 19154 |
| 1510389 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | SEPTA ROBERTS AVE FAC | 2705 ROBERTS AVE | PHILA | PA | 19129 |
| 1522616 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | DIETZ & WATSON | 5701 TACONY ST | PHILADELPHIA | PA | 19135-4311 |
| 882940 | NPDES Pmt Stormwater Industrial Site Runoff (Individual) | FORMER PES REFINERY | 3144 W PASSYUNK AVE | PHILADELPHIA | PA | 19145-5208 |
| 1523813 | NPDES Pmt Stormwater Industrial Site Runoff (Individual) | JDM MATERIALS GRANT AVE PLT | 2750 GRANT AVE | PHILA | PA | 19114 |
| 18834 | NPDES Pmt Stormwater Industrial Site Runoff (Individual) | SEPTA VICTORY AVE TERM | 110 & 103 VICTORY AVE | UPPER DARBY | PA | 19082 |
| 901759 | NPDES Pmt Stormwater Industrial Site Runoff (Individual) | HANWHA PHILLY SHIPYARD INC | 2100 KITTY HAWK AVE | PHILADELPHIA | PA | 19112-1808 |
| 1312193 | NPDES Pmt Stormwater Industrial Site Runoff (Individual) | PBF LOGISTICS PRODUCTS TERMINALS LLC | 6850 ESSINGTON AVE | PHILADELPHIA | PA | 19153-3413 |
| 1374574 | NPDES Pmt Stormwater Industrial Site Runoff (Individual) | JDM MATERIALS CO BARTRAM BATCH PLT | PENROSE FERRY RD | PHILADELPHIA | PA | 19153 |
| 1411890 | NPDES Pmt Stormwater Industrial Site Runoff (Individual) | PHILA INTL AIRPORT | DIV AVIATION/INTL AIRPORT | PHILADELPHIA | PA | 19153 |
| 1424715 | NPDES Pmt Stormwater Industrial Site Runoff (Individual) | AMTRAK 30TH STREET STATION | 2955 MARKET ST | PHILADELPHIA | PA | 19104-2828 |
| 1481695 | NPDES Pmt Stormwater Industrial Site Runoff (Individual) | PHILLY G STREET TERMINAL | 4210 G ST | PHILADELPHIA | PA | 19124 |
| 1496476 | NPDES Pmt Stormwater Industrial Site Runoff (Individual) | METRO READY MIX & SUPPLY CASTOR AVE PLT | 4455-65 CASTOR AVENUE | PHILADELPHIA | PA | 19124 |
| 1513643 | NPDES Pmt Stormwater Industrial Site Runoff (Individual) | FORT MIFFLIN TERMINAL | 4 HOG ISLAND RD | PHILADELPHIA | PA | 19153-3809 |
| 910907 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | US POSTAL SVC LINDBERGH BLVD FAC | 7500 LINDBERGH BLVD | PHILADELPHIA | PA | 19176-9998 |
| 1015651 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | FRONTIDA BIOPHARM LLC ORTHODOX | 1100 ORTHODOX ST | PHILADELPHIA | PA | 19124-3168 |
| 1098226 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | FIBREFLEX PACKING & MFG UMBRIA ST FAC | 5101 UMBRIA ST | PHILADELPHIA | PA | 19128-4345 |
| 1107824 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | TASTYKAKE | 2801 HUNTING PARK AVE | PHILADELPHIA | PA | 19129 |
| 1108530 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | COILPLUS BLEIGH AVE FAC | 5135 BLEIGH AVE | PHILA | PA | 19136 |
| 1144434 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | SMITH EDWARDS DUNLAP | 2867 E ALLEGHENY AVE | PHILADELPHIA | PA | 19134-5994 |
| 1335508 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | MEDIMMUNE LLC | NA | NA | NA | NA |
| 1508902 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | SANDMEYER STEEL | 10060 SANDMEYER LN | PHILADELPHIA | PA | 19116 |
| 1510482 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | VEOLIA ES TECH SOLUTIONS LLC | 3100 HEDLEY ST | PHILADELPHIA | PA | 19137-1934 |
| 1299955 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | SOUTHERN GRAPHIC SYSTEMS LLC | 2781 ROBERTS AVE | PHILADELPHIA | PA | 19129 |
| 1328058 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | PENN MAID DUTTON RD PLT | 10975 DUTTON RD | PHILADELPHIA | PA | 19154-3288 |

| Authority ID | Authority Type | Site Name | Address | City | State | Zip Code |
|---|---|---|---|---|---|---|
| 1487222 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | EFORCE COMPLIANCE | 1229 S NAPA ST | PHILADELPHIA | PA | 19146-3417 |
| 591838 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | PEARL PRESSMAN LIBERTY | 7625 SUFFOLK AVE | PHILADELPHIA | PA | 19153-3020 |
| 711143 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | VICINITY ENERGY SCHUYLKILL GEN STA | 2800 CHRISTIAN ST | PHILADELPHIA | PA | 19146 |
| 874849 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | SPECTRUM MICROWAVE PHILADELPHIA OPERATIONS | 2707 BLACK LAKE PLACE | PHILADELPHIA | PA | 19154-1008 |
| 1256809 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | DIETZ & WATSON | 5701 TACONY ST | PHILADELPHIA | PA | 19135-4311 |
| 1257040 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | ARCA RECYCLING INC | 2000 BENNETT RD | PHILADELPHIA | PA | 19116 |
| 1327059 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | FEDEX EXPRESS MUVA | 3600 GRAYS FERRY AVE | PHILADELPHIA | PA | 19146-3207 |
| 1337031 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | HONOR FOODS INC | 5501 TACONY ST | PHILADELPHIA | PA | 19122 |
| 1391236 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | THE BATTERY | 1325 N BEACH ST | PHILADELPHIA | PA | 19125-4310 |
| 1396546 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | API TECH CORP - PHILA OPS | 2707 BLACK LAKE PLACE | PHILADELPHIA | PA | 19154-1008 |
| 1413054 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | SEPTA DECATUR DISTRIBUTION CENTER | 10551 DECATUR RD | PHILADELPHIA | PA | 19154-3800 |
| 1417892 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | IOVANCE BIOTHERAPEUTICS | 300 ROUSE BLVD | PHILADELPHIA | PA | 19112-1905 |
| 1442879 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | HILLOCK ANODIZING MFG FAC | 5101 COMLY ST | PHILADELPHIA | PA | 19135 |
| 1444285 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | PURE FISHING | 3028 W HUNTING PARK AVE | PHILADELPHIA | PA | 19132 |
| 1450553 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | RR DONNELLEY PHILADELPHIA DBA BAUM PRINTING | 9985 GANTRY RD | PHILADELPHIA | PA | 19115 |
| 1450840 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | JOWITT & RODGERS STATE RD FAC | 9400 STATE RD | PHILADELPHIA | PA | 19114 |
| 1456071 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | SENNECA HOLDINGS | 8825 TORRESDALE AVE | PHILADELPHIA | PA | 19136-1542 |
| 1460776 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | L3HARRIS MARITIME POWER & ENERGY SOLUTIONS INC | 13500 ROOSEVELT BLVD | PHILADELPHIA | PA | 19116-4201 |
| 1473890 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | DUNGAN ROAD | 7722 DUNGAN RD | PHILADELPHIA | PA | 19111-2733 |
| 1498009 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | USPS VEHICLE MAINTENANCE FAC | 1902 BYBERRY RD | PHILADELPHIA | PA | 19116-9997 |
| 1502703 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | USPS PHILA VEHICLE MAINTENANCE FACILITY | 3201 SOUTH 74TH ST | PHILADELPHIA | PA | 19153-9996 |
| 1509459 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | PCI PHARMACEUTICAL RED LION FACILITY | 3001 RED LION RD | PHILADELPHIA | PA | 19114 |
| 1523418 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | ADVANCED THERAPIES 4751 LEAGUE ISLAND BLVD | 4751 LEAGUE ISLAND BLVD | PHILADELPHIA | PA | 19112-1220 |
| 1523423 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | ADV THERAPIES 4701 LEAGUE ISLAND BLVD | 4701 LEAGUE ISLAND BLVD | PHILADELPHIA | PA | 19112-1220 |
| 1523429 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | ADV THERAPIES 400 ROUSE BLVD | 400 ROUSE BLVD | PHILADELPHIA | PA | 19112-1904 |
| 1523447 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | ADVANCED THERAPIES 4000 S 26TH ST | 4000 S 26TH ST | PHILADELPHIA | PA | 19112-1613 |
| 1524419 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | PHILA DIV CORP HQ | 2800 RED LION RD | PHILADELPHIA | PA | 19154-2312 |
| 1530062 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | ASTRAZENECA PLP | 3001 RED LION RD | PHILADELPHIA | PA | 19114-1123 |
| 1532817 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | INNOVATION MARKETING COMMUNICATIONS LLC | 11601 CAROLINE RD | PHILADELPHIA | PA | 19154 |
| 1036930 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | NDV SCRAP METAL INC | 3630 N 2ND ST | PHILADELPHIA | PA | 19140-4605 |
| 1219023 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | BRITTON IND INC | NA | NA | NA | NA |
| 1229352 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | JT'S USED AUTO PARTS S 61ST ST FAC | 3505 S 61ST ST | PHILADELPHIA | PA | 19153 |

| Authority ID | Authority Type | Site Name | Address | City | State | Zip Code |
|---|---|---|---|---|---|---|
| 1240082 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | TRC TRANSFER STATION COLUMBUS BLVD FAC | 2904 S CHRISTOPHER COLUMBUS BLVD | PHILADELPHIA | PA | 19148 |
| 1264620 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | C&E AUTO PARTS ESSINGTON AVE | 6796 ESSINGTON AVE | PHILA | PA | 19153 |
| 1389066 | PAG-03 Discharge of Stormwater Assoc w Industrial Activities | DHL EXPRESS HOLSTEIN AVE FAC | 7600 HOLSTEIN AVE | PHILA | PA | 19153 |
| 1523813 | NPDES Pmt Stormwater Industrial Site Runoff (Individual) | JDM MATERIALS GRANT AVE PLT | 2750 GRANT AVE | PHILA | PA | 19114 |
| 1299955 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | SOUTHERN GRAPHIC SYSTEMS LLC | 2781 ROBERTS AVE | PHILADELPHIA | PA | 19129 |
| 1328058 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | PENN MAID DUTTON RD PLT | 10975 DUTTON RD | PHILADELPHIA | PA | 19154-3288 |
| 1487222 | No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03 | EFORCE COMPLIANCE | 1229 S NAPA ST | PHILADELPHIA | PA | 19146-3417 |

# Appendix K – Defective Connections Group FY25 Report

# Sewer Maintenance Unit

# Defective Connections Group

## Fiscal Year 2025 Annual Report

# I. BACKGROUND INFORMATION

## A. Phase I Stormwater Regulations

In 1990, the Environmental Protection Agency (EPA) promulgated Stormwater Regulations that required National Pollutant Discharge Elimination System (NPDES) permits for stormwater discharges from large (populations in excess of 250,000) and medium-sized (populations between 100,000 and 250,000) municipalities with separate storm sewer systems, (MS4)[1]. The City of Philadelphia with a 1990 population of 1.4 million was one of two NPDES Stormwater Phase I permittees in Pennsylvania. The other permittee was the City of Allentown.

## B. NPDES Permit for Stormwater

The City of Philadelphia received its first NPDES Stormwater Permit under the 1990 Federal Regulations as issued by the Pennsylvania Department of Environmental Protection (PA DEP) in September 29, 1995. This permit had a 5-year term. Among other requirements, the permit required the city to reduce stormwater based pollution of local streams, creeks and rivers, from (1) residential and commercial areas, (2) construction sites, (3) industrial sites and (4) defective lateral connections.

The renewal of the NPDES Stormwater Permit that expired in September 2000 was approved by the PA DEP on September 30, 2005. The new permit provides for the same scope and requirements for the Defective Laterals Detection and Abatement Program as the previous permit and incorporates some provisions from the Consent Order and Agreement (COA) of July 1998 although the COA was successfully completed on March 18, 2004.

With the Water Department's internal reorganization and creation of the Office of Watersheds (OOW) in January 1999, the responsibilities numbered (1) through (3) above, along with the periodic reporting thereon was transferred to the OOW. The Defective Connections group (DCG) continues to pursue the 4th objective of NPDES Permit, namely the detection of defective laterals that cause sanitary wastewater to be carried to the local streams and rivers.

DCG field investigations began in March 1994.

# II. DEFECTIVE LATERALS DETECTION AND ABATEMENT PROGRAM

## A. Scope of Investigations

The MS4 impacts the areas of the city where there are two separate sewers in the street. The sanitary sewer system, which consists of a network of pipes of smaller diameter, carries domestic wastewater to the City's three Water Pollution Control Plants located in the Northeast, Southeast and Southwest sections. The storm sewer system consists of pipes of larger diameter but significantly shorter lengths and transports the stormwater to the nearest natural waterways. In general, the relatively newer sections of the city in the northeast, northwest and southwest are served by a MS4.

[1] Municipal Separate Storm Sewer System

Due to problems generally attributed to improper installation or lack of oversight during construction, sanitary wastewater from some properties can be transported into the storm sewers and from there, to the streams and rivers. This intrusion of sanitary wastewater causes pollution of the streams and rivers, which are the source of city's water supply. The polluted streams and rivers also endanger the physical health and safety of residents and users of the streams. The NPDES Permit requires the city to identify and abate the plumbing connections (defective laterals) that cause the sanitary wastewater to drain into the streams.

The **investigations** of stream pollution are triggered by the presence of a dry weather discharge from the storm sewer outfalls into the streams. There are over 400 stormwater outfalls in city's MS4 system of which some 220 have exhibited some dry weather flow.

It should be mentioned however, that not all dry weather discharge from an outfall comes from sanitary wastewater incursion; some may come from underground natural streams or from groundwater inflow. Additional testing of chemical and biochemical composition of samples collected from the outfalls determines whether or not stream pollution may be caused by defective laterals.

## B. Outfall Inspections and Sampling

A systematic sampling of the quality of dry weather flow from the 200 plus wet outfalls was performed in 1991 as part of the initial NPDES permit application process. This program attempted to document the amount of flow (gph) and in many cases, fecal coliform count (number of fecal colonies per ml of water). The outfall sampling results were updated in 1998 when additional observations of fluoride levels (mg/l) were included to provide some indication of the origin of water seen in the outfalls. This is based on the fact that the natural water coming from streams or ground water seepage does not contain any significant fluorides, but the City water contains 0.7 mg/l of fluorides.

The more likely outcomes of fluoride and fecal count analyses are interpreted as follows:

i. **High fluoride level with high fecal count:** possible intrusion of sanitary wastewater into the storm sewer
ii. **Low fluoride level with high fecal count:** possible transport of surface contamination in the non-domestic discharge
iii. **High fluoride with low fecal count**: possible drinking water source

As a part of the MS4 permit, all stormwater outfalls are to be inspected once every five years. If there is dry-weather flow present then the outfall is to be sampled and tested for fecal presence and fluoride levels. In addition, the priority outfalls of the watersheds are to be sampled on a quarterly basis. Outfall inspections and sampling are handled by the Industrial Waste unit. Laboratory analysis is completed by the Bureau of Laboratory Services.

During FY2025, 42 outfall inspections were conducted, and 34 samples were taken due to observed dry-weather flow as part of the Priority Outfall Sampling program. During FY2025, 131 outfall inspections were conducted, and 57 samples were taken due to observed dry-weather flow as part of the Permit Inspection program.

## C. Field Screening

The object of **field screening** is to identify the areas in a sewershed that are suspected of contributing to stream pollution through defective laterals. The field screening begins systematically at an outfall that shows a dry weather flow[2].

Proceeding upstream from the outfall, the storm sewer manholes are successively opened and observed for the presence of flow. The term "**flow**" has been widened to include "**wet**" stormwater manholes on the assumption that the wetness was caused by earlier active flow. These observations are continued upstream along a specified sewer line and stop when a stormwater manhole no longer exhibits any flow or wetness. The field screening is then continued along another tributary sewer and eventually through the entire sewershed of the outfall.

## D. Identification of Defective Laterals

### 1) Dye Tests

Dye testing is a process by which a cross-connected lateral at a property that carries sanitary wastewater to a storm sewer is identified.

#### (a) Initial Dye Test

Before a test is conducted, the fresh air inlets (FAIs) located at the curbside of the property are identified as being the sanitary or storm FAIs. In Philadelphia, the sanitary lateral is located downstream of the stormwater lateral in relation to the flow of the main sewer[3]. The dye test protocol adopted by the City requires the presence of two properly functioning FAIs for successful initial tests. If one or no FAI is seen at a property or one or both of the FAIs are clogged or damaged, the initial dye test is aborted with a notation "**Inconclusive**".

During the initial dye test, a water-soluble fluorescent dye is placed in the fresh air inlets (FAIs). The dye is then washed down with water.

In the case of a **"Camera Assisted Dye Test"** the emergence of the dye is observed in the **storm sewer** by a closed circuit television camera positioned in the storm sewer in front of the stormwater lateral connection of the property. Possible observations include:

(i) Green dye placed in storm FAI is seen in the storm sewer
(ii) Green dye paced in storm FAI is not seen in the storm sewer
(iii) Red dye placed in the sanitary FAI is seen in the storm sewer
(iv) Red dye placed in the sanitary FAI is not seen in the storm sewer.

The above observations are interpreted as follows:

**1)** Combination of (i) and (iv): **Proper Connection**
**2)** Combination of (i) and (iii): **Probable Cross Connection**
**3)** Combination of (ii) and (iv): **Inconclusive**
**4)** Combination of (ii) and (iii): **Probable Cross Connection**

[2] A dry weather flow is defined as one that is detected after an elapse of 72 hours of a continuous dry spell from the previous rainfall event.
[3] As discussed in Section D. House Lateral Design, pages 5-3 and 5-4, in the PWD Water and Sewer Design Manual (2nd Edition) 2011.

In certain cases, the use of the closed circuit television camera is not possible. In such cases, the initial tests are conducted with a **"Manual Dye Test"**. Possible observations include:

In a **"Manual Dye Test"**, a green dye is placed in the storm FAI and observed in the **storm sewer**. At the same time, a red dye is placed in the sanitary FAI and observed in the **sanitary sewer**. If the red dye appears in the sanitary sewer, whether or not the green dye appears in the storm sewer, the conclusion arrived at is "**Proper Connection**".

If the red dye is not seen in the sanitary sewer, the test is repeated by placing more red dye in the sanitary FAI and observed in the **storm sewer**. If the red dye appears in the storm sewer, this result signifies the presence of a "**Probable Cross Connection**".

If dye is not seen in the sanitary and storm sewers the observation is "**Inconclusive**".

The initial dye tests, whether conducted manually or by a camera are intended to be least intrusive to the water customers. During these initial tests, no entry into the home is involved. In order to provide water for dye tests at the FAIs, field crews use portable water equipment. The Defective Connections group has two vehicles each retrofitted with water supply tanks.

**(b) Confirmation Dye Test**

A confirmation dye test is conducted in case of an Inconclusive test or a Probable cross connection. This test is conducted after a second notification to the customer has been sent. This test is **intrusive**; admission inside the home is required to conduct the testing.

The confirmation dye test is conducted **manually** by placing and flushing the fluorescent dye in household plumbing fixtures, such as a toilet[4]. The emergence of the dye is then observed in the **sanitary sewer**.

If the dye does appear only in the sanitary sewer, it is concluded that the property tested has a "**Proper Connection**." If the dye from the household plumbing does not appear in the sanitary sewer, then observation is made in the storm sewer. The presence of the dye in the storm sewer confirms the existence of a "**Cross Connection.**"

**(c) Notification of Defective Lateral**

When a confirmation dye test indicates that there exists a cross connection at the subject property, the property owner is advised that if the property qualifies as a residential property (with no more than 4 units in one of which the owner has his/her residence), the city will make repairs to the defective lateral(s) at no cost to the property owner. If later on it is discovered that the property does not fall within this category, the customer is informed by a follow up notice of his responsibility to repair the defect at their cost.

The Plumbing Repair Programs unit handles customer communications and is responsible for the abatement of these defects.

**2) Customer Notifications**

[4] This step was modified in CY2001 to conduct the tests from all plumbing fixtures, including any in the basement in order to identify the existence of an internal cross connection, where all fixtures but one are properly connected to the sanitary sewer, with one offending connection to the storm sewer.

### (a) Initial Notification

The identification of the defective laterals begins after delineating the parts of a sewershed suspected of contributing dry weather flow to the MS4 system, after field screening. All property holders in the specified area receive an initial notification letter, generated through the Oracle-based DLS computer program. The notification provides an introduction of the program and requests the customer's cooperation in enabling **dye tests** at their property. A dye test is conducted after an initial notification is sent out to a customer. There are three possible outcomes of a dye test:

(i) A test is conducted and no cross connection is found. In this case, a result of "No Cross Connection" is entered in the database and the case is closed.

(ii) A test is conducted and it is concluded that there might exist a cross connection that results in the transport of sanitary wastewater into the storm sewer. This condition requires additional tests to confirm the existence of a cross connection.

(iii) A test cannot be conducted due to any of a variety of reasons, such as FAIs were not conclusively identified, were clogged, etc. This situation also warrants additional tests to conclude whether or not a cross connection exists.

### (b) Confirmation Notification

In either of case (ii) or (iii) above, a follow up notification is sent out to the customer, informing them of the results of the previous attempt and requesting them to be available at a specified date for additional "Confirmation" tests at their property. Of course, if the date provided by the City is not suitable to the customer, they can schedule an alternative appointment that suits them.

Dye tests are then conducted at the property from within the customer's premises as described earlier. The results of the tests, (a) a Proper Connection or (b) a Cross Connection, are entered in the DLS computer program.

### (c) Water Shutoff Notification

Not all dye tests are completed as a result of confirmation notifications. Some customers ignore the scheduled date and fail to make an alternative appointment. In such cases an informatory note is left at the property and a follow up attempt for tests is made. If this also results in no test, another notification is sent out informing the customer that if they do not make a firm appointment by a specified date (usually within two calendar weeks of the notification date), their water service would be scheduled to be turned off by the Customer Service unit. Of course if the customers do respond and make an appointment for dye tests, the service shutoff is withdrawn and tests are completed as soon as possible.

### (d) Miscellaneous Closures

In some cases, where there was no response to dye test requests or water service shutoff notifications due to properties being vacant or abandoned, the cases were closed with a notation "**Miscellaneous Closure**". A miscellaneous closure is activated because of any of the following reasons:

- No active water service to the premises
- Property abandoned, empty or unoccupied
- No billing to the property per Revenue Department
- No sewer connection

From time to time, the miscellaneously closed accounts are revisited. If we find that the reason that caused the account to be originally closed is no longer valid, a dye test is conducted and the property is then re-classified according to the test results.

## III. PRIORITY SCORE LIST OUTFALLS

The emphasis of the Defective Laterals Detection and Abatement program is on outfalls on the Priority Score List. The Priority Score List ranks all outfalls sampled with dry-weather flow based on a preset formula that includes the fecal coliform results, the estimated volume of flow, whether the outfall discharges to a drinking water source water, and a complaint factor. The Priority Score List is periodically updated based on the results of the (Permit) Outfall Inspection and Sampling Program described earlier. This list was updated in July 2013.

## IV. SUMMARY OF DYE TESTS AND ABATEMENTS

Table 1 provides a summary of the work performed in detecting and abating defective laterals. It shows the cumulative numbers since the inception of the project in 1994, and the progress that was attained during FY2025.

**Table 1.**
**Updated Progress on Dye Tests in Philadelphia MS4 Area**

| | Since Inception of the Program | During Fiscal 2025 |
|---|---|---|
| Dye Tests Initiated | 66,466 | 540 |
| No Cross Connections Found | 66,072 | 455 |
| Cross Connections Identified | 2,045 | 38 |
| Completed Tests | 68,117 | 493 |
| Abatements Completed | 1,984 | 102 |

Of the 102 abatements done in FY2025, 77 were residential properties, and the cost for these abatements was $909,983.52. Additionally, 24 commercial properties were abated at a cost of $19,123.5, and 1 internal cross connection property was abated with a cost of $450.

## V. MISCELLANEOUS

### Estimates of Pollution Removed

The following data provides a rough measure of the effectiveness of the Defective Connections group's positive contribution to improving the local environment:

- Number of Cross Connections Abated
  - Since Inception of the Program 1,984
  - During FY2025 102

- Estimated gallons of Polluted Water Prevented from entering the stormwater outfalls[5]
  - Since Inception of the Program 257.85 million gallons per year
  - During FY2025 14.33 million gallons per year

## VI. STAFF LEVELS

Because of the high priority assigned to the Defective Connections group, the availability of manpower is extremely important. The sanctioned personnel for the unit are as follows:

One **Water Conveyance Supervisor**

Two **Field Representative Supervisors**

Four **SM Crew Chief Is / Science Technicians**

Eight **Utility Representatives**
Two positions vacant

One **Data Services Support Clerk**

The above field and office staffs are organized under the Water Conveyance Supervisor. This position is responsible for all aspects of the unit. The two Field Representative Supervisors are each responsible for two field crews, four crews in all. Each crew is led by a SM Crew Chief I / Science Technician and has two Utility Representatives.

In addition to the field staff, the Defective Connections group has the following position which provides general support:

**Data Services Support Clerk:** The DSSC handles the intricacies of the DLS database, creation of various correspondences related to dye tests, and follows-up with the field staff.

The DSSC also handles a variety of communications with the customers, makes appointments, and follows-up with delinquent customers. They also maintain the record of water shutoff warnings and miscellaneous closures.

At the end of FY2025, 12 of the 16 approved positions in the Defective Connections group were filled.

[5] Based on an average use of 110 gallons per capita per day, over a family size of 3.5 persons.

# Appendix L – Sanitary Infiltration Events

| Spill Date | Spill Time | Location | Spill Notes | Outfall | Abatement Date | Abatement Time | Abatement Notes |
|---|---|---|---|---|---|---|---|
| 05/12/2025 | 03:30 PM | 2800 Cheltenham Ave. | Active discharge within Cheltenham Township, unknown tributary. | N/A | 05/12/2025 | 06:30 PM | Choked sewer relieved. Sewer cleaned and vacuumed. |
| 05/01/2025 | 02:00 PM | Telfair Rd. and Greenmonth Rd. | Grease build-up caused blockage resulting in choked sewer. Approximately 1/2 gallon per minute discharged. | Q107-01 | 05/01/2025 | 03:40 PM | Flusher opened sanitary sewer to relieve choke. Clean-up completed by WRT, refer to CCTV for follow up. |
| 04/24/2025 | 01:00 PM | 4846 Umbria St. | Sanitary sewer discharged into residence at 4648-4650 Umbria St. | S059-04 | 04/24/2025 | 04:00 PM | Choked sewer was relieved and sewer was cleaned and vacuumed. |
| 04/24/2025 | 09:00 AM | Neill Drive Pumping Station 3701 Neill Dr. | SSO occurred during construction on the force main. There was miscommunication between JPC and PWD whether pumping had been switched to bypass. Approximately 16,464 gallons discharged. | S-046-05 | 04/24/2025 | 09:24 AM | Bypass piping was already in place, so pumping was switched from the force main to bypass main. Remaining flow in the force main drained back to the pump station. |
| 04/15/2025 | 09:00 AM | 11922 Waldemire Dr. | Blockage was caused by grease build-up. Approximately 2 GPM discharged. | Q110-11 | 04/15/2025 | 12:00 PM | Sewer was flushed to relieve the choke, clean-up by WRT on 04/16. |
| 03/31/2025 | 09:30 AM | 9090 Old Bustleton Ave. | Found manhole at 9090 Bustleton Ave choked with grease and debris, estimated 1,200 gallons discharged. | P105-06 | 03/31/2025 | 01:30 PM | Flushed open sanitary sewer and removed debris. WRT to clean-up outfall. |
| 03/20/2025 | 11:00 AM | 141 Roxborough Ave. | Defective sanitary sewer caused sewage discharge into storm system. | S051-03 | 03/20/2025 | 04:30 PM | bypass pump pumping Discharge from storm sewer into san sewer |
| 03/17/2025 | 11:30 AM | 4800 Ridge Ave. | Reports of a back-up into basement. No active discharge at the time of investigation. | W052-02 | 03/17/2025 | 04:30 PM | Discharge was not active at the time of examination. The choked sewer was relieved, and the sewer was cleaned and vacuumed. |
| 03/08/2025 | 02:44 PM | Neill Drive Pumping Station 3701 Neill Dr. | Flow control received pump station alarm at 11am and arrived on site by 11:39am on 3/8/25. Discharge was observed starting at 2:44 pm on 3/8. 2 flushers arrived on site 3/8 at 3:30 pm and immediately began drawing down the wet well. WRT arrived on site 3/8 at 4pm and set up hale bales to capture solids. The 2 flushers worked continuously until the force main was repaired. Approximately 3.5 million gallons discharged. | S-046-05 | 03/12/2025 | 03:33 PM | Force main was repaired by emergency contractor on 3/12 at 3:30pm and pump station was put back into service. Wet well dropped below overflow level by 3:33pm. The break was caused by a failed fitting at a force main bend, which was the same cause of a previous force main break and SSO. There are 2 other locations along the force main with the same fittings. PWD is preparing to bypass the station force main and replace the fittings to avoid a future failure. During the SSO, WRT installed hay bales downstream of force main break and outfall. Once the SSO stopped, WRT cleaned up trash and debris, scrubbed the stream in areas impacted by the overflow, spread lime, and flushed the creek. |

| Spill Date | Spill Time | Location | Spill Notes | Outfall | Abatement Date | Abatement Time | Abatement Notes |
|---|---|---|---|---|---|---|---|
| 02/13/2025 | 01:00 PM | 1220 E. Chelten Ave. | Defective sewer caused sewage discharge into basement at 1216 E. Chelten Ave. | N/A | 02/20/2025 | 12:00 PM | Referred 1216 E. Chelten to Customer Service for abatement. Sewer relieved and repaired. |
| 02/05/2025 | 09:20 AM | 3300 Midvale Ave. | Sanitary sewer discharging into storm inlet. | S052-04 | 02/08/2025 | 01:30 PM | Choked sewer relieved. Sewer cleaned and vacuumed. |
| 02/02/2025 | 04:34 PM | Central Schuylkill Pumping Station<br>University Ave. and 34th St. | Action level was reached during dry weather on 2/2, a pump failed and the Siphon Level Reached Action Level. | N/A | 02/02/2025 | 05:56 PM | Electricians were able to start a pump and the level came down rapidly. the Siphon never reached Action Level. CSP#6 was reset and there was no major problem found with the CSP#6 and is Back in-service. the Roto Valve on #6pump did not open fully and caused CSP#6 to fail. |
| 01/30/2025 | 01:30 PM | 69th St. and Old York Rd. | Blockage caused by rags and grease build-up, choked sewer resulted in overflow from outfall to stream. 3 GPM discharged. | T-088-01 | 01/30/2025 | 03:30 PM | Flsuher opened sanitary sewer to relieve choke, clean-up being completed by WRT on 01/31. |
| 01/23/2025 | 10:00 AM | Norcom Rd. and Redlion Rd. | Blockage was caused by rags and grease build up. | Q110-01 | 01/23/2025 | 11:30 AM | No body of water was impacted. Clean up on street was done by sewer maintenance, and the debris was taken to southwest treatment plant to dump. |
| 01/09/2025 | 04:30 PM | 8634 and 8638 Germantown Ave. | Sanitary sewer discharging into basements (8634 and 8638 Germantown Ave.) | W086-01 | 01/09/2025 | 06:30 PM | PWD customer service was made aware. Choked sewer relieved, sewer cleaned and vacuumed. |
| 12/11/2024 | 02:30 PM | Heatherwood Apartments<br>9200 Bustleton Ave. | Blockage was caused by debris and grease build-up. Tremont Creek impacted. An estimated 3 GPM discharged. | P105-06-S0075 | 12/11/2024 | 03:30 PM | Flushed sewer to relieve choke, clean-up completed by WRT on 12/12, flushed creek with dechlor. tabs. |
| 10/15/2024 | 09:30 AM | 9629 Bustleton Ave. | Apartment building sanitary lateral feeding into storm sewer. Approximately 2 GPM discharged. | P-105-01 | 10/16/2024 | 10:00 AM | Sewer maintenance (WRT) on standby. |
| 10/08/2024 | 12:00 PM | Ford Road Pumping Station<br>3870 Ford Rd. | Debris accumulated in Pump 1 impeller, causing it to vibrate and come unbolted from the wet well and was pumping into the pump control room instead of the force main. This caused the pump station to lose power. An estimated 547,675 gallons discharged. | S-046-09 | 10/11/2024 | 12:30 PM | Flusher trucks were brought on-site to mitigate discharge volume. Pump 1 was repaired and put back in service on 10/11/24 at 11:07 am. Pump 2 was repaired and was put back in service on 10/16/24 at 11:45am. WRT was onsite starting 10/8/24, flushing the storm sewer, adding de-chlorination tabs, and maintaining hay bales at the outfall. Clean up of debris was done at and around the outfall and up to ~1/4 mile downstream. |

| Spill Date | Spill Time | Location | Spill Notes | Outfall | Abatement Date | Abatement Time | Abatement Notes |
|---|---|---|---|---|---|---|---|
| 10/03/2024 | 09:31 AM | Regulating chamber D-40<br>E. Berks St. and Beach St. | Excessive I&I tracked back to MH D40-000335. A new water main was being disinfected and flushed and was discharging to the MH. Approximately 1,436,640 gallons discharged. | D-40 | 10/07/2024 | 01:00 PM | Coordinated with construction unit to reduce discharge rate. Also reinforced dam at chamber with sandbags to prevent further discharge. No restoration at the outfall needed. |
| 08/29/2024 | 04:06 PM | Neill Drive Pumping Station<br>3701 Neill Dr. | The SSO went into Creek west of the Neill Dr. Pumping Station PWD's and out to the Schuylkill River. The water way was a little cloudy and some waste material was visible. We received an alarm at 3:28pm on 8/29/24 that the station controls were down and no power. This was confirmed by the electrical group leader Thomas Whitfield. He then took a look in the outfall area to notice the spill.<br><br>The secondary breaker to the station was found tripped. The breaker fault was cleared, closed and power was restored. An estimated 25,141 gallons were discharged. | S-046-05 | 08/29/2024 | 04:46 PM | The secondary breaker to the station was found tripped. The breaker fault was cleared, closed and power was restored. Sewer maintenance waterways restoration team inspected the area around the pump station and the outfall on 8/30 at ~9:30 am and did not observe any signs of a discharge. No cleanup was needed. |
| 08/28/2024 | 11:30 AM | 10788 Lockart Rd. | Blockage caused by grease build-up. Approximately 2 GPM discharged. | P116-02 | 08/28/2024 | 04:00 PM | Flusher relieved choked sewer, clean-up completed by WRT on 08/29. |
| 08/19/2024 | 11:30 AM | 512 Welsh Rd. | Blockage caused by log and grease build-up. Impacted Ballard Brook. Approximately 10 GPM discharged. | P112-04 | 08/21/2024 | 03:30 PM | Flusher releived choked sewer and mucked out manholes. Flsuher and by-pass pumping. Clean-up completed by WRT. |
| 08/14/2024 | 09:30 AM | 400 Wellesley Rd. | Choked sewer caused sewage discharge into storm system. No active discharge, at this time. | W-068-05 | 08/14/2024 | 02:30 PM | Discharge was not active at time of examination. Choked sewer relieved, cleaned, and vacuumed. |

# Appendix M – Pollution Migration / Infiltration

| SR ID | Date Reported | Date Completed | Who Called | Location | Pollutant | Pollutant Type Desc | Drainage Area | Incident Type | Destination | Observations | Vulnerability Assessment | Vulnerability Assessment Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 303975 | 07/27/2024 19:13 PM | 07/27/2024 19:10 PM | Other City Department | 8500 Essington Ave | Petroleum (Oil \| Fuel) | Jet Fuel | Ms4 - M-005-04 | Spill \| Slug Discharge | Overland To Inlet | No impact at outfall. | No Impact On Department Operation Or Structure | |
| 304448 | 08/02/2024 16:20 PM | 08/23/2024 14:00 PM | Citizen | 4332-36 Terrace St | Water | Hvac/Cooling Tower Runoff | Ms4 - T-051-03 | Spill \| Slug Discharge | Spill To Ground Only | A leaking HVAC is ponding in Verizon parking lot and flowing into Boone St. | No Impact On Department Operation Or Structure | |
| 306430 | 08/29/2024 07:50 AM | 08/29/2024 08:03 AM | Other City Department | P-116-02 | Sewage | | Ms4 - P-116-02 | Choke | Direct To Receiving Stream | Choked sewer caused SSO at P-116-02 | Potential Sanitary Sewer Overflow (Sso) | |
| 307572 | 09/17/2024 17:21 PM | 10/17/2024 14:00 PM | Citizen | 4021 Ridge Ave | Silt Runoff | | Ms4 - W-046-06 | Illegal Discharge \| Dumping | Overland To Inlet | Signs of previous runoff. New silt screens installed in all inlets on Scotts Lane. Previous silt runoff was swept and shoveled. | No Impact On Department Operation Or Structure | |
| 307729 | 09/19/2024 15:33 PM | | Citizen | 8327 Ridge Ave | Water | Potable | Ms4 - W-075-01 | Illegal Discharge \| Dumping | Overland To Inlet | Construction site is discharging water from a fire hydrant into manhole W075-01-S0230 some of the water is also entering the nearby inlet that goes to W-075-01. | Minor Impact On Department Operation Or Structure | |
| 308109 | 09/25/2024 14:10 PM | 09/26/2024 09:01 AM | Other Pwd Department | Adams Ave & Crescentville Rd | | | Ms4 - | Discharge At Outfall | | A sheen was reported on the creek. Not observed at time of investigation. | No Impact On Department Operation Or Structure | |
| 310033 | 10/28/2024 19:02 PM | | Citizen | 9343 Annapolis Rd | Petroleum (Oil \| Fuel) | Petroleum Type Not Listed□ | Ms4 - P-101-02 | Spill \| Slug Discharge | Drain To Sewer | Strong petrol odor detected in both sanitary and storm sewer. Storm sewer was dry. Home owner also reported an odor coming from shower drain. Odors dissipated after 30minutes. | Minor Impact On Department Operation Or Structure | Odors |
| 311511 | 11/19/2024 13:36 PM | 01/16/2025 14:50 PM | Citizen | 527 Greenhill Ln | Sewage | | Ms4 - S-075-07 | Illegal Discharge \| Dumping | Overland To Inlet | Report of RV dumping to inlet. Unfounded. | No Impact On Department Operation Or Structure | |
| 311512 | 11/19/2024 13:38 PM | 01/16/2025 14:49 PM | Other | Q-107-02 | Sewage | | Ms4 - Q-107-02 | Discharge At Outfall | Direct To Receiving Stream | Sewage discharge from Q-107-02. Cross connection and fresh water leak found. | Minor Impact On Department Operation Or Structure | |
| 314985 | 01/04/2025 11:48 AM | | Citizen | Jamestown Ave & Apple St | Human Waste | | Ms4 - S-051-08 | Illegal Discharge \| Dumping | Overland To Inlet | All inlets appeared normal. IC was onsite to clean 1 inlet at the intersection. | No Impact On Department Operation Or Structure | |
| 319706 | 02/24/2025 17:14 PM | 02/28/2025 14:00 PM | Citizen | 2700 Axe Factory Rd | Automotive Fluids | | Ms4 - P-091-07 | Illegal Discharge \| Dumping | Spill To Ground Only | No signs of dumping in inlet, but there were chemicals and spills around area of inlet. | No Impact On Department Operation Or Structure | |
| 320726 | 03/07/2025 11:55 AM | | Citizen | 2900 E Allegheny Ave | Chemical | Chemical Not Listed.: Sodium Hydroxide□ | Ms4 - D22-Sw035 | Spill \| Slug Discharge | Overland To Receiving Stream | Eldredge; an environmental contractor to BWC Terminals was actively transferring waste from their VAC Truck into 55 gal drums and getting them ready for transport. | No Impact On Department Operation Or Structure | |
| 323605 | 04/16/2025 12:52 PM | 04/16/2025 13:01 PM | Citizen | Q-110-11 | Sewage | | Ms4 - Q-110-11 | Choke | Direct To Receiving Stream | Choked sewer causing sewage discharge at Q-110-11. | Potential Sanitary Sewer Overflow (Sso) | |
| 327538 | 06/05/2025 08:57 AM | | Fire Communications | 2401 Roberts Ave | Petroleum (Oil \| Fuel) | Diesel Fuel | Ms4 - T-14, S-046-06 | Fire | Overland To Inlet,Overland To Receiving Stream | Arrived to an active fire scene, PFD, OEM and other incident managers were on site. | No Impact On Department Operation Or Structure | |

# Appendix N – Defective Lateral Quarterly Report FY25

**STORM WATER MANAGEMENT PROGRAM**
**NPDES PERMIT NO. PA0054712**

# DEFECTIVE LATERAL CONNECTION STATUS REPORT
**(Covering Period from January 1, 2025 to March 31, 2025)**

Submitted to

**PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION**
**BUREAU OF WATER QUALITY MANAGEMENT**

By

**CITY OF PHILADELPHIA**
**PHILADELPHIA, PA**

June 2, 2025

**DLC Program Update**
**1st Quarter 2025**

# I. INTRODUCTION

This Defective Lateral Connection Status Report is submitted to the Pennsylvania Department of Environmental Protection (PADEP) as part of the reporting requirements of the City of Philadelphia NPDES Storm Water Management Permit No. PA 0054712. The report covers the three-month period beginning January 1, 2025 and ending March 31, 2025.

The body of this report will describe the recent activities of the City during the past quarter within the 1998 COA Priority Outfall areas and at other significant outfalls on the Stormwater Outfall Priority Score list. Additionally, goals for the next quarter will be listed.

Table 1 provides a summary of the program with respect to Complete tests, Cross-connections identified, and Abatements performed. Table 2 provides a listing of all laboratory analyses of samples taken at stormwater outfalls or within the stormwater system during the previous quarter. Table 3 provides a listing of properties with cross-connections outstanding greater than 120 days. Finally, Table 4 provides a listing of reported wastewater spills to the stormwater system or receiving streams.

# II. PAST QUARTER REVIEW

## A. Priority Outfalls

### 1. 7th & Cheltenham Outfall (T-088-01)

DLC program activities have performed 2,831 Complete tests in this sewershed, identifying 134 Cross-connections, all of which have been Abated.

Eight (8) sites intercepting flow are listed below.

1. CFD-01 Plymouth St. west of Pittsville St.
2. CFD-02 Pittsville St. south of Plymouth St.
3. CFD-03 Elston St. east of Bouvier St.
4. CFD-04 Ashley St. west of Bouvier St.
5. CFD-05 Cheltenham Ave. east of 19th St.
6. CFD-06 Verbena St. south of Cheltenham Ave.
7. CFD-07 Cheltenham Ave. east of 7th St.
8. CFD-08 7th St. south of Cheltenham Ave.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

| Flap Gate | Inspections | Blockages | Discharges |
|---|---|---|---|
| CFD-01 | 14 | 1 | 0 |
| CFD-02 | 13 | 1 | 0 |
| CFD-03 | 13 | 0 | 0 |
| CFD-04 | 13 | 0 | 0 |
| CFD-05 | 13 | 1 | 0 |
| CFD-06 | 14 | 0 | 0 |
| CFD-07 | 14 | 1 | 0 |
| CFD-08 | 14 | 0 | 0 |

The most recent fecal sample value was 24,196 MPN per 100 ml. at the outfall on January 16, 2025.

## 2. Monastery Ave. Outfall (W-060-01)

DLC program activities have performed 637 Complete tests in this sewershed, identifying 17 Cross-connections, all of which have been Abated.

Two (2) sites intercepting flow are listed below.

1. MFD-01 Jannette St. west of Monastery Ave.
2. MFD-02 Green La. North of Lawnton St.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

| Flap Gate | Inspections | Blockages | Discharges |
|---|---|---|---|
| MFD-01 | 3 | 0 | 0 |
| MFD-02 | 3 | 0 | 0 |

The most recent fecal sample value was 73 MPN per 100 ml. at the outfall on February 24, 2025.

## 3. Monoshone Creek Outfalls (W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04 and W-068-05)

DLC program activities have performed 2,750 Complete tests in these sewershed areas, identifying 95 Cross-connections, all of which have been Abated. The majority of the efforts have been in the W-068-05 sewershed area which is by far the largest in terms of drainage area and properties served.

The most recent fecal sample value was 12,997 MPN per 100 ml. at W-068-05 outfall on February 24, 2025.

4. **Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)**

DLC program activities have performed 2,479 Complete tests in these sewershed areas, identifying 65 Cross-connections, all have been Abated. The majority of the efforts have been in the S-059-04 sewershed area.

The most recent fecal sample values at each outfall were:

- 41 MPN per 100 ml. at the S-058-01 outfall on March 19, 2025.
- >24,196MPN per 100 ml. at the S-059-01 outfall on March 19, 2025.
- 17,329 MPN per 100 ml. at the S-059-02 outfall on March 19, 2025.
- 9,590 MPN per 100 ml. at the S-059-04 outfall on March 27, 2025.
- <100 MPN per 100 ml. at the S-059-09 outfall on March 27, 2025.

## B. Other Outfalls

### 1. Sandyford Run Outfall (P-090-02)

DLC program activities have performed 5,917 Complete tests in this sewershed, identifying 111 Cross-connections, 100 of which have been Abated.

One (1) site intercepting flow is listed below.

1. PFD-01 Sandyford Run (Brous and Lexington Aves.)

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

| Flap Gate | Inspections | Blockages | Discharges |
|---|---|---|---|
| PFD-01 | 14 | 1 | 0 |

The most recent fecal sample value was 1,850 MPN per 100 ml. at the P-090-02 outfall on January 23, 2025.

### 2. Franklin and Hasbrook Outfall (T-089-04)

DLC program activities have performed 1,025 Complete tests in this sewershed, identifying 46 Cross-connections, 44 of which have been Abated.

One (1) site intercepting flow is listed below.

1. CFD-01 Franklin and Hasbrook Aves.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

| Flap Gate | Inspections | Blockages | Discharges |
|---|---|---|---|
| CFD-01 | 13 | 1 | 0 |

No sample was taken this quarter.

**3.** A current summary of additional outfalls from the Stormwater Outfall Priority Score list that the City has performed complete testing or abatements this quarter is as follows.

| Outfall # | Completed Test | Cross Connection | Abatement |
|---|---|---|---|
| P-083-03 | 1 | 0 | 1 |
| P-090-02 | 46 | 1 | 7 |
| P-099-03 | 4 | 0 | 2 |
| Q-101-03 | 1 | 0 | 1 |
| Q-107-02 | 36 | 1 | 1 |
| Q-121-04 | 2 | 0 | 2 |
| R18 | 4 | 0 | 4 |
| T-080-02 | 2 | 1 | 0 |
| T-080-03 | 15 | 0 | 2 |
| T-089-01 | 1 | 0 | 1 |
| W-076-13 | 2 | 1 | 0 |

## III. NEXT QUARTER GOALS

### A. Priority Outfalls

#### 1. 7th & Cheltenham Outfall (T-088-01)

Goals for the Quarter

- Continue to monitor the operation of the diversion apparatuses.
- Continue sampling at the outfall with dry-weather flow.

#### 2. Monastery Ave. Outfall (W-060-01)

Goals for the Quarter

- Continue to monitor the operation of the diversion apparatuses.
- Continue sampling at the outfall with dry-weather flow.

**3. Monoshone Creek Outfalls (W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04 and W-068-05)**

Goals for the Quarter

- Continue sampling at outfall W-068-05 with dry-weather flow.

**4. Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)**

Goals for the Quarter

- Continue sampling at the outfalls with dry-weather flow.

## B. Other Outfalls

**1. Sandyford Run Outfall (P-090-02)**

Goals for the Quarter

- Continue to monitor the operation of the diversion apparatus.

**2. Franklin and Hasbrook Outfall (T-089-04)**

Goals for the Quarter

- Continue to monitor the operation of the diversion apparatus.

**3.** Continue to perform abatements of identified cross-connections within the following outfalls.

- P-090-02
- P-091-06
- P-099-03
- P-099-05
- P-104-07
- Q-107-02
- Q-110-09
- Q-121-04
- R18
- S-046-06
- S-052-03
- S-052-04
- T-080-02
- T-080-03
- T-089-04
- T-098-01
- W-067-01
- W-076-13
- W-086-01
- W-086-02

- W-086-03
- W-086-05

**4.** Continue to perform property testing within the following outfalls.

- P-090-02
- P-091-08
- P-099-03
- Q-101-05
- Q-107-02
- T-080-03

**Table 1**
**DLC Program Summary**
**January 1, 2025 to March 31, 2025**

Complete Tests:

- 65,008 Complete tests have been performed under the DLC program
- **115 Complete tests were performed this past quarter**
- 1 Complete test was performed in outfall P-083-03
- 46 Complete tests were performed in outfall P-090-02
- 4 Complete tests were performed in outfall P-099-03
- 1 Complete test was performed in outfall Q-101-03
- 36 Complete tests were performed in outfall Q-107-02
- 2 Complete tests were performed in outfall Q-121-04
- 4 Complete tests were performed in outfall R-18
- 1 Complete test was performed in outfall S-059-02
- 2 Complete tests were performed in outfall T-080-02
- 15 Complete tests were performed in outfall T-080-03
- 1 Complete test was performed in outfall T-089-01
- 2 Complete tests were performed in outfall W-076-13

Cross-Connections Found:

- 1,926 Cross-connections have been identified under the DLC program
- **4 Cross-connection was identified this past quarter**
- 1 Cross-connection was identified in outfall P-090-02
- 1 Cross-connection was identified in outfall Q-107-02
- 1 Cross-connection was identified in outfall T-080-02
- 1 Cross-connection was identified in outfall W-076-13

Abatements:

- 1,829 Abatements have been performed under the DLC program
- **21 Abatements were performed this past quarter**
- 1 Abatement was performed in outfall P-083-03
- 7 Abatements were performed in outfall P-090-02
- 2 Abatements were performed in outfall P-099-03
- 1 Abatement was performed in outfall Q-101-03
- 1 Abatement was performed in outfall Q-107-02
- 2 Abatements were performed in outfall Q-121-04
- 4 Abatements were performed in outfall R-18
- 2 Abatements were performed in outfall T-080-03
- 1 Abatement was performed in outfall T-089-01

Outfall/Manhole Screening and Sampling:

- 8 outfall inspections were made as part of the **Priority Outfall Inspection Program** this past quarter.
- 8 outfall samples were taken due to observed dry-weather flow during the above inspections.

- 42 outfall inspections were made as part of the **Permit Inspection Program** this past quarter.
- 12 outfall samples were taken due to observed dry-weather flow during the above inspections.

**Table 2**
**Lab Analysis of Water at Outfalls and/or in the Storm Sewers**
**January 1, 2025 to March 31, 2025**

| Outfall | Date | Time | Location | Sewer Size (noted) | Flow (gph) | Fecal Count (MPN per 100 ml) | Fluoride (mg/l) | Comments |
|---|---|---|---|---|---|---|---|---|
| **A. Priority Outfalls** | | | | | | | | |
| S-058-01 | 03/19/2025 | 11:24 | SW of Umbria St. & Domino Lane. | 54" | NR | 41.00 | 0.27 | No odors |
| S-059-01 | 03/19/2025 | 11:38 | NE of Towpath & Parker Ave. | 60" | NR | >24196.00 | 0.28 | Rust color at outfall |
| S-059-02 | 03/19/2025 | 11:55 | NE of Towpath & Fountain St. | 42" | NR | 17329.00 | 0.63 | Clear. |
| S-059-04 | 03/27/2025 | 12:12 | Inter. of Towpath & Leverington Ave. Bridge | 51" | NR | 9590.00 | 0.26 | Outfall Submerged. Manhole D026-04-0010 dry |
| S-059-09 | 03/27/2025 | 12:31 | Intersection of Main St. & Green Lane | 36" | NR | <100.00 | 0.28 | Clear. No sheen/odors |
| T-088-01 | 01/16/2025 | 09:19 | W. of Cheltenham Ave. & 7th St. | 84" | Submerged | 24196.000 | 0.25 | Significant bacterial matting, ducks observed |
| W-060-01 | 02/24/2025 | 12:20 | NE. of Monatery Lane & Janette St. | 0" | 0.5 | 73.00 | <0.10 | Clear flow, possibly from ice melt. No sheen or odors. Frog observed. Plunge pool had a blue color. |
| W-068-05 | 02/24/2025 | 11:40 | NW Lincoln Drive & Morris St. | 90" | Submerged | 12997.00 | 0.40 | Outfall is submerged in a stream. Moderate bacterial matting and slight sewage/musty smell. |
| **B. Permit Inspection Program** | | | | | | | | |
| D-026-01 | 03/14/2025 | 11:00 | N. of Delaware Ave. & Catherine | 0" | NF | NS | NS | stagnant water by outfall, no flow |
| D-026-02 | 03/14/2025 | 11:40 | N. of Delaware Ave. & Catherine St. | 050" | NF | NS | NS | Outfall submerged/not visible, no upstream manhole. Checked drain by outfall, no flow observed |
| D-026-03 | 03/14/2025 | 11:20 | N. of Delaware Ave. & Catherine St. | 0" | NF | NS | NS | D026-03-0010 manhole dry w/ trash, outfall submerged |
| D-026-04 | 03/20/2025 | 12:00 | N. of Delaware Ave. & Catherine St. (Pier 35) | 0" | NF | NS | NS | Outfall Submerged. Manhole D026-04-0010 dry |
| D-026-05 | 03/20/2025 | 13:10 | Delaware Ave. At Lombard Circle. | 24" | NF | NS | NS | Observed From Mh D-026-05-0010. Outfall submerged |
| D-026-06 | 03/20/2025 | 14:20 | Lombard Circle | 24" | NF | NS | NS | D026-05-0035 - manhole ID not able to be entered. |
| D-031-01 | 03/19/2025 | 11:50 | N. of Delaware Ave. & Church St. | 0" | NF | NS | NS | No accessible upstream manholes, outfall submerged. Unable to inspect |
| D-031-02 | 03/19/2025 | 12:40 | E. of Delaware Ave. & Walnut St. | 24" | NF | NS | NS | Manhole D-031-02-010 Stagnant water, no flow |
| D-031-03 | 03/19/2025 | 13:25 | Delaware & Spruce Harbor | 15" | NF | NS | NS | D58-000114 ( cannot enter in Manhole observation point) dry. Submerged outfall, no signs of flow |
| P-090-02 | 01/23/2025 | 10:16 | S. of Brous Ave. & Roosevelt Blvd. | 156" | Submerged | 1850.00 | 0.04 | Flow buried under ice |
| P-091-10 | 03/13/2025 | 11:29 | NW Welsh Rd. & Rowland Ave. | 42" | 1 | 54750.00 | 0.68 | Slight suspended solids. |
| P-091-11 | 03/12/2025 | 13:33 | E. of Wintrop & Draper Sts. | 30" | NF | NS | NS | Eroding concrete at the rim of the outfall. |
| P-091-11 | 03/31/2025 | 14:55 | E. of Wintrop & Draper Sts. | 30" | NF | NS | NS | No flow at the outfall, which was above the water level upon observation. |
| P-091-12 | 03/12/2025 | 12:46 | SE of Narvon & Arthur Sts. | 30" | NF | NS | NS | Outfall Slightly submerges |
| P-091-13 | 03/05/2025 | 09:40 | SE of Longford St. & Holme Ave. | 21" | NF | NS | NS | No flow observed. |
| P-091-13 | 03/12/2025 | 12:30 | SE of Longford St. & Holme Ave. | 21" | NF | NS | NS | About a quarter of the outfall is submerged. |
| P-092-01 | 03/05/2025 | 09:57 | NW of Pennypack & Crispin Sts. | 18" | 1 | <10.00 | <0.10 | Outfall is submerged. Flow rate was evaluated 40 ft downstream. Slight sudsing observed. |
| P-100-08 | 02/25/2025 | 12:06 | SE Maxwell & Danbury Sts. | 72" | NF | NS | NS | Chlorine 1.08, algal bloom on outfall apron. Tree branches and decaying vegetation. |
| P-100-11 | 03/31/2025 | 14:40 | NE of Ashton Rd. & Jenny Place | 42" | NF | NS | NS | Observed a frog and slight bacterial matting. Slight trickle at outfall. Inspected manholes P100-11-0010 and P100-11-0050 and no flow was observed. |
| P-100-21 | 03/31/2025 | 11:44 | W. of Woodenbridge & Cloverly Rds. | 27" | 1 | >24196.00 | 0.52 | No flow coming from outfall; Flow observed coming from right underneath the outfall. |
| P-105-01 | 02/25/2025 | 12:33 | SE of Roosevelt Blvd & Goodnaw St. | 102" | NF | NS | NS | Chlorine 0.25, Flow not measured as outfall is submerged. Decaying vegetation and tree branches |
| P-105-02 | 02/25/2025 | 13:04 | N. of Winchester & Old Bustleton Aves. | 60" | NF | NS | NS | Chlorine 0.02, Algal bloom on the outfall apron. Suspected cross connection |
| P-108-12 | 02/24/2025 | 16:10 | E. of Bloomfield Ave. & Verree Rd. | 36" | NF | NS | NS | Creek was cloudy from a previous upstream WMB. No flow at outfall at time of inspection. |
| Q-110-05 | 03/31/2025 | 11:08 | N. of Drummond & Red Lion Rds.-10447 Drummond Rd | 66" | NF | 20.00 | 0.60 | Chlorine 0.04 |
| Q-110-12 | 03/12/2025 | 10:30 | W. of Salina & Newberry Rds-3642 Salina Rd. | 30" | NF | NS | NS | Outfall is partially submerged, but no flow was observed. Slight oil sheen near the outfall, and foaming observed about 30 feet downstream. |
| Q-110-16 | 03/12/2025 | 09:11 | E. of Chalfont Dr. & Keswick Rd. at Byberry Creek | 36" | 0.33 | 579.40 | 0.06 | Clear flow observed. Outfall has black algae attached to it. |
| Q-110-18 | 01/14/2025 | 13:24 | W. of Waldemire Dr. & Millbrook Rd | 36" | NF | NS | NS | No flow. Outfall is submerged and water in outfall is frozen. Upstream manholes were observed and showed no flow. |
| Q-110-19 | 01/14/2025 | 13:55 | E. of Helmer Dr. & Keswick Rd. | 21" | NF | NS | NS | No Flow. |
| Q-110-20 | 01/14/2025 | 13:50 | SE of Helmer Dr. & Keswick Rd. | 54" | NF | NS | NS | No flow. |
| Q-114-11 | 01/09/2025 | 13:40 | SE of Woodhaven Rd. & Riverside Dr.-1911 Riverside | 42" | NF | NS | NS | Outfall was dry. |
| S-046-04 | 03/27/2025 | 11:20 | S. of Kelly Dr. & Hunting Park Ave. | 0" | 1 | 231.00 | 0.09 | Lagredelle was also part of the crew for this inspection. Low flow. Clear waters. Very soft soil (sinking) near outfall. Caution climbing and walking. |
| S-046-06 | 03/14/2025 | 12:02 | S. Kelly Dr. & Twin Bridges | 061" | 0.167 | 144.00 | 0.10 | Slight flow observed. Sheen on surface of river. |
| S-046-07 | 03/20/2025 | 11:43 | SW of Neill Dr. & Presidential Blvd. | 18" | 0.008 | NS | NS | Very minimal clear flow observed- too little to obtain a sample. |
| S-046-08 | 03/20/2025 | 12:23 | 3939 Conshohocken Ave | 54" | 3.33 | 168.00 | 0.52 | Very fast clear flow (filled mason jar in 3 seconds). Strong mossy odor and slight sewage odor. Area is very overgrown. |
| S-046-08 | 03/27/2025 | 12:00 | 3939 Conshohocken Ave | 54" | NF | NS | NS | Leslie Lagredelle was also part of the crew. Homeless encampment around outfall and some parts fenced off. Could observe the outfall was dry still. |
| S-046-10 | 03/14/2025 | 12:50 | Strawberry Mansion Bridge & Kelly Dr | 30" | 0.833 | 98.00 | 0.17 | Flow observed. Slight sudsing around the outfall. Lots of algae and trash in the area. |
| S-075-03 | 03/13/2025 | 11:20 | NW of Steeple & Belfry Drives | 36" | NF | NS | NS | No flow. Slight trash and a lot of large branches. Accessed from 711 Manatawna Ave, then through an opening in the fence. |
| S-075-04 | 03/13/2025 | 11:28 | E. of Hagy's Mill Rd. & Cathedral Ave. | 48" | NF | NS | NS | Outfall is surrounded by thorns. Best accessed by walking along Hagy's Mill Rd and cutting in from nearby stormwater outlet pipe. |
| S-075-05 | 03/13/2025 | 11:03 | | 28" | NF | NS | NS | No flow. Slightly wet outside outfall with small piles of sediment. |
| T-080-02 | 01/27/2025 | 12:22 | NW of Newtown Ave. & Comly St. | 040" | 10 | 613100.00 | 0.34 | Significant odor & bacterial matting |
| T-098-02 | 01/09/2025 | 07:10 | E. of Fillmore St. & Shelmire Ave. | 36" | NF | NS | NS | Outfall is partially submerged. No flow is coming from outfall. |
| W-095-05 | 03/19/2025 | 10:45 | E. Stenton Ave. & Newton St. | 30" | 0.15 | 21.60 | 0.12 | There are four outfall heads at this location. Flow was observed from two heads (far right and far left). Dye testing was conducted from the manhole closest to the outfall by CK and BC, dye was observed on the far-right head when facing the outfalls. Sampling was done once the dye dissipated from the outfall. |

# DEFECTIVE LATERAL SYSTEM
# NOD - Over 120 Days Report

| Status of Properties | | | | |
|---|---|---|---|---|
| **Address** | **Outfall Code** | **Complete Date** | **Admin Action** | **Comment** |
| 8127 Algon Ave | P-090-02 | 11/19/2024 | | |
| 2012 Bleigh Ave | P-090-02 | 10/21/2024 | | |
| 1819 Fox Chase Rd | P-099-03 | 06/22/2024 | | |
| 5828 Weymouth St | T-080-03 | 06/29/2024 | | |
| 1920 Afton St | P-090-02 | 04/13/2024 | | |
| 276 Fountain St | S-059-02 | 04/17/2024 | | |
| 2119 Oakmont St | P-090-02 | 05/28/2024 | | |
| 2222 Strahle St | P-099-05 | 03/30/2024 | | |
| 2225 Strahle St | P-099-05 | 03/23/2024 | | |
| 2226 Strahle St | P-099-05 | 03/14/2024 | | |
| 2227 Strahle St | P-099-05 | 04/06/2024 | | |
| 1902 Afton St | P-090-02 | 02/27/2024 | | |
| 2115 Afton St | P-090-02 | 01/11/2024 | | |
| 2124 Afton St | P-090-02 | 02/23/2024 | | |
| 1714 Faunce St | P-090-02 | 03/02/2024 | | |
| 15039 Poquessing Crk La | Q-121-04 | 01/05/2024 | | |
| 7454 Devon St | W-086-03 | 11/17/2023 | | |
| 1713 Faunce St | P-090-02 | 11/14/2023 | | |
| 7714 Matthias St | W-076-13 | 10/04/2023 | | |
| 5801 Newtown Ave | T-080-03 | 09/05/2023 | | |
| 15044 Poquessing Crk La | Q-121-04 | 11/11/2023 | | |
| 146 Roumfort Rd | W-086-03 | 10/07/2023 | | |
| 150 Roumfort Rd | W-086-03 | 10/10/2023 | | |
| 5836 Weymouth St | T-080-03 | 11/18/2023 | | |
| 400 Woodbrook La | W-086-05 | 10/24/2023 | | |
| 131 E Mermaid La | W-086-01 | 06/30/2023 | | |
| 5822 Newtown Ave | T-080-03 | 06/24/2023 | | |
| 5830 Newtown Ave | T-080-03 | 08/05/2023 | | |
| 7312 Palmetto St | T-089-04 | 06/03/2023 | | |
| 5833 Reach St | T-080-03 | 08/19/2023 | | |
| 5830 Weymouth St | T-080-03 | 08/02/2023 | | |
| 5832 Weymouth St | T-080-03 | 07/29/2023 | | |

PHILADELPHIA WATER DEPARTMENT

# DEFECTIVE LATERAL SYSTEM
# NOD - Over 120 Days Report

## Status of Properties

| Address | Outfall Code | Complete Date | Admin Action | Comment |
|---|---|---|---|---|
| 5834 Weymouth St | T-080-03 | 08/09/2023 | | |
| 5839 Weymouth St | T-080-03 | 07/31/2023 | | |
| 5843 Weymouth St | T-080-03 | 07/29/2023 | | |
| 5846 Weymouth St | T-080-03 | 07/29/2023 | | |
| 5848 Weymouth St | T-080-03 | 08/03/2023 | | |
| 5852 Weymouth St | T-080-03 | 08/01/2023 | | |
| 639 Wises Mill Rd | W-076-13 | 08/15/2023 | | |
| 3441 Holyoke Rd | Q-101-05 | 03/25/2023 | | |
| 7312 Lawndale Ave | T-089-04 | 03/27/2023 | | |
| 101 E Mermaid La | W-086-01 | 02/13/2023 | | |
| 7472 Oxford Ave | T-089-04 | 02/23/2023 | | |
| 715 Arnold St | P-104-07 | 10/25/2022 | | |
| 7915 Burholme Ave | T-098-01 | 10/15/2022 | | |
| 1128 Brighton St | P-090-02 | 06/25/2022 | | |
| 1816 Benson St | P-099-03 | 05/14/2022 | | |
| 1742 Bergen St | P-099-03 | 05/07/2022 | | |
| 1829 Kendrick St | P-099-03 | 09/25/2021 | | |
| 1410 E Hunting Park Ave | R18 | 07/30/2021 | | |
| 2216 Emerson St | P-091-06 | 03/22/2021 | | |
| 3602 Haywood St | S-052-04 | 03/27/2021 | | |
| 3613 Haywood St | S-052-04 | 03/29/2021 | | |
| 3643 Haywood St | S-052-04 | 03/29/2021 | | |
| 3660 Haywood St | S-052-04 | 03/27/2021 | | |
| 8118 Lister St | P-091-06 | 03/03/2021 | | |
| 4150 Markland St | R18 | 06/02/2021 | | |
| 3617 Midvale Ave | S-052-04 | 06/02/2021 | | |
| 3460 Division St | S-052-04 | 01/23/2021 | | |
| 2128 Emerson St | P-091-06 | 10/24/2020 | | |
| 2214 Hoffnagle St | P-091-06 | 10/26/2020 | | |
| 2320 Benson St | P-091-06 | 01/06/2020 | | |
| 1441 E Hunting Park Ave | R18 | 02/29/2020 | | |
| 4123 Markland St | R18 | 02/06/2020 | | |
| 2623 W Allegheny Ave | S-046-06 | 10/05/2019 | | |

PHILADELPHIA WATER DEPARTMENT

# DEFECTIVE LATERAL SYSTEM
# NOD - Over 120 Days Report

## Status of Properties

| Address | Outfall Code | Complete Date | Admin Action | Comment |
|---|---|---|---|---|
| 4014 Castor Ave | R18 | 10/08/2019 | | |
| 4024 Castor Ave | R18 | 09/17/2019 | | |
| 4030 Castor Ave | R18 | 10/12/2019 | | |
| 4051 Castor Ave | R18 | 09/11/2019 | | |
| 8820 Cottage St | P-083-03 | 11/06/2019 | | |
| 1431 E Lycoming St | R18 | 11/02/2019 | | |
| 4143 M St | R18 | 09/21/2019 | | |
| 4215 M St | R18 | 09/24/2019 | | |
| 4259 Neilson St | R18 | 12/02/2019 | | |
| 1404 E Lycoming St | R18 | 08/31/2019 | | |
| 1409 E Lycoming St | R18 | 08/13/2019 | | |
| 1413 E Lycoming St | R18 | 08/20/2019 | | |
| 1447 E Lycoming St | R18 | 08/26/2019 | | |
| 4122 Markland St | R18 | 08/05/2019 | | |
| 4142 Markland St | R18 | 08/03/2019 | | |
| 4144 Markland St | R18 | 07/30/2019 | | |
| 4146 Markland St | R18 | 07/27/2019 | | |
| 4245 Ormond St | R18 | 06/08/2019 | | |
| 4215 Castor Ave | R18 | 04/27/2019 | | |
| 4219 Castor Ave | R18 | 05/02/2019 | | |
| 4249 Neilson St | R18 | 05/04/2019 | | |
| 4250 Neilson St | R18 | 04/25/2019 | | |
| 4232 O St | R18 | 03/28/2019 | | |
| 8726 Cottage St | P-083-03 | 12/22/2018 | | |
| 3700 Falls Cir | S-052-03 | 12/15/2018 | | |
| 3704 Falls Cir | S-052-03 | 01/17/2019 | | |
| 3706 Falls Cir | S-052-03 | 01/19/2019 | | |
| 3235 Comly Pl | Q-110-09 | 10/06/2018 | | |
| 3454 W Penn St | S-052-04 | 10/24/2018 | | |
| 4437 Riverview La | S-052-03 | 09/19/2018 | | |
| 4456 Riverview La | S-052-03 | 09/26/2018 | | |
| 3469 W Queen La | S-052-04 | 07/17/2018 | | |
| 3530 Henry Ave | S-052-04 | 03/03/2018 | | |

# DEFECTIVE LATERAL SYSTEM
# NOD - Over 120 Days Report

| Status of Properties | | | | |
|---|---|---|---|---|
| **Address** | **Outfall Code** | **Complete Date** | **Admin Action** | **Comment** |
| 3317 W Penn St | S-052-04 | 06/02/2018 | | |
| 3340 W Penn St | S-052-04 | 03/03/2018 | | |
| 3449 W Penn St | S-052-04 | 05/03/2018 | | |
| 3305 Tilden St | S-052-04 | 03/24/2018 | | |
| 3313 Tilden St | S-052-04 | 03/24/2018 | | |
| 3425 Conrad St | S-052-04 | 03/01/2018 | | |
| 3424 W Penn St | S-052-04 | 02/17/2018 | | |
| 15037 Poquessing Crk La | Q-121-04 | 01/26/2024 | | |

**Table 4**
**Spills to Storm Sewers and/or Receiving Waters**
**January 1, 2025 to March 31, 2025**

| Date | Outfall | Address | Source Code | Material Involved | Completion Date | Remarks |
|---|---|---|---|---|---|---|
| 01/04/25 | S-051-08 | Jamestown Ave & Apple St | 3009 | Sewage | 01/22/25 | Report of dumping human waste into inlet. All inlets appeared normal. IC was onsite to clean 1 inlet at the intersection. |
| 01/09/25 | W-086-01 | 8634 & 8638 Germantown Ave. | 3008 | Sewage | 01/09/25 | Sanitary sewer discharging into basements. Choked sewer relieved. Sewer cleaned and vacuumed. |
| 01/23/25 | Q-110-01 | Norcom Rd. and Redlion Rd. | 3008 | Sewage | 01/23/25 | Blockage was caused by rags and grease build-up. No body of water was impacted. Clean-up on street was done by sewer maintenance, and the debris was taken to southwest treatment plant to dump. |
| 01/30/25 | T-088-01 | 69th & Old York Rd. | 3011 | Sewage | 01/30/25 | Blockage was caused by rags and grease build-up. Impact (unnamed trib) T-088-01 outfall at Cheltenham Ave & 7th St. Fulsher opened sanitary sewer to relieve choke. Clean was done by PWD WRT. |
| 02/02/25 | PS SSO | Central Schuylkill Pumping Station | | Sewage | 02/02/25 | Action level was reached during dry weather, a pump failed and the Siphon Level reached Action Level. CSP#6 was reset and there was no major problem, back in-service. The Roto Valve on #6 pump did not open fully and caused the fail. |
| 02/05/25 | S-052-04 | 3300 Midvale | 3009 | Sewage | 02/08/25 | Sanitary sewer discharged into storm inlet. Choked sewer relieved. Sewer cleaned and vacuumed |
| 02/13/25 | T-14 | 1220 E Chelten | 3008 | Sewage | 02/20/25 | Sewer caused sewage discharge into basement. Referred to Customer Service for abatement. Sewer relieved and repaired. |
| 03/07/25 | D-22 | 2900 E Allegheny Ave | 3011 | Sewage | 03/07/25 | The Environmental Contractor to BWC terminals claimed that Sodium Hydroxide was discharged on the ground and pumped into the Delaware river. BWC has a NPDES permit PAG030203 and does not discharge directly into City Sewers. |

**Source Codes:**

**3008 - Spill to Ground Only**
**3009 - Spill to Storm Sewer**
**3010 - Spill to Sanitary Sewer**
**3011 - Spill to Receiving Stream**

**STORM WATER MANAGEMENT PROGRAM**
**NPDES PERMIT NO. PA0054712**

# DEFECTIVE LATERAL CONNECTION STATUS REPORT
**(Covering Period from April 1, 2025 to June 30, 2025)**

Submitted to

**PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION**
**BUREAU OF WATER QUALITY MANAGEMENT**

By

**CITY OF PHILADELPHIA**
**PHILADELPHIA, PA**

July 30, 2025

**DLC Program Update**
**2nd Quarter 2025**

# I. INTRODUCTION

This Defective Lateral Connection Status Report is submitted to the Pennsylvania Department of Environmental Protection (PADEP) as part of the reporting requirements of the City of Philadelphia NPDES Storm Water Management Permit No. PA 0054712. The report covers the three-month period beginning April 1, 2025 and ending June 30, 2025.

The body of this report will describe the recent activities of the City during the past quarter within the 1998 COA Priority Outfall areas and at other significant outfalls on the Stormwater Outfall Priority Score list. Additionally, goals for the next quarter will be listed.

Table 1 provides a summary of the program with respect to Complete tests, Cross-connections identified, and Abatements performed. Table 2 provides a listing of all laboratory analyses of samples taken at stormwater outfalls or within the stormwater system during the previous quarter. Table 3 provides a listing of properties with cross-connections outstanding greater than 120 days. Finally, Table 4 provides a listing of reported wastewater spills to the stormwater system or receiving streams.

# II. PAST QUARTER REVIEW

## A. Priority Outfalls

### 1. 7th & Cheltenham Outfall (T-088-01)

DLC program activities have performed 2,926 Complete tests in this sewershed, identifying 175 Cross-connections, all of which have been Abated.

Eight (8) sites intercepting flow are listed below.

1. CFD-01 Plymouth St. west of Pittsville St.
2. CFD-02 Pittsville St. south of Plymouth St.
3. CFD-03 Elston St. east of Bouvier St.
4. CFD-04 Ashley St. west of Bouvier St.
5. CFD-05 Cheltenham Ave. east of 19th St.
6. CFD-06 Verbena St. south of Cheltenham Ave.
7. CFD-07 Cheltenham Ave. east of 7th St.
8. CFD-08 7th St. south of Cheltenham Ave.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

| Flap Gate | Inspections | Blockages | Discharges |
|---|---|---|---|
| CFD-01 | 9 | 0 | 0 |
| CFD-02 | 10 | 1 | 0 |
| CFD-03 | 10 | 1 | 0 |
| CFD-04 | 9 | 0 | 0 |
| CFD-05 | 13 | 0 | 0 |
| CFD-06 | 12 | 0 | 0 |
| CFD-07 | 12 | 3 | 0 |
| CFD-08 | 12 | 1 | 0 |

The most recent fecal sample value was 3,873 MPN per 100 ml. at the outfall on June 12, 2025.

## 2. Monastery Ave. Outfall (W-060-01)

DLC program activities have performed 641 Complete tests in this sewershed, identifying 18 Cross-connections, all of which have been Abated.

Two (2) sites intercepting flow are listed below.

1. MFD-01 Jannette St. west of Monastery Ave.
2. MFD-02 Green La. North of Lawnton St.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

| Flap Gate | Inspections | Blockages | Discharges |
|---|---|---|---|
| MFD-01 | 5 | 0 | 0 |
| MFD-02 | 5 | 0 | 0 |

The most recent fecal sample value was 3,076 MPN per 100 ml. at the outfall on June 24, 2025.

## 3. Monoshone Creek Outfalls (W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04 and W-068-05)

DLC program activities have performed 2,862 Complete tests in these sewershed areas, identifying 99 Cross-connections, all of which have been Abated. The majority of the efforts have been in the W-068-05 sewershed area which is by far the largest in terms of drainage area and properties served.

The most recent fecal sample value was 2,909 MPN per 100 ml. at W-068-05 outfall on June 24, 2025.

4. **Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)**

DLC program activities have performed 2,551 Complete tests in these sewershed areas, identifying 65 Cross-connections, all have been Abated. The majority of the efforts have been in the S-059-04 sewershed area.

The most recent fecal sample values at each outfall were:

- 2,419.6 MPN per 100 ml. at the S-058-01 outfall on June 13, 2025.
- 24,890 MPN per 100 ml. at the S-059-01 outfall on June 13, 2025.
- >241,960 MPN per 100 ml. at the S-059-02 outfall on June 13, 2025.
- 770,100 MPN per 100 ml. at the S-059-03 outfall on June 25, 2025.
- 1,710 MPN per 100 ml. at the S-059-04 outfall on June 25, 2025.
- 1,100 MPN per 100 ml. at the S-059-09 outfall on June 25, 2025.

## B. Other Outfalls

### 1. Sandyford Run Outfall (P-090-02)

DLC program activities have performed 6,179 Complete tests in this sewershed, identifying 121 Cross-connections, 114 of which have been Abated.

One (1) site intercepting flow is listed below.

1. PFD-01 Sandyford Run (Brous and Lexington Aves.)

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

| Flap Gate | Inspections | Blockages | Discharges |
|---|---|---|---|
| PFD-01 | 17 | 0 | 0 |

The most recent fecal sample value was 1,401 MPN per 100 ml. at the P-090-02 outfall on June 24, 2025.

### 2. Franklin and Hasbrook Outfall (T-089-04)

DLC program activities have performed 1,724 Complete tests in this sewershed, identifying 50 Cross-connections, all of which have been Abated.

One (1) site intercepting flow is listed below.

1. CFD-01 Franklin and Hasbrook Aves.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

| Flap Gate | Inspections | Blockages | Discharges |
|---|---|---|---|
| CFD-01 | 13 | 3 | 0 |

No sample was taken this quarter.

**3.** A current summary of additional outfalls from the Stormwater Outfall Priority Score list that the City has performed complete testing or abatements this quarter is as follows.

| Outfall # | Completed Test | Cross Connection | Abatement |
|---|---|---|---|
| P-090-02 | 24 | 3 | 3 |
| P-091-01 | 9 | 0 | 0 |
| P-091-06 | 1 | 0 | 1 |
| P-091-08 | 36 | 7 | 0 |
| P-099-03 | 2 | 0 | 0 |
| P-099-05 | 1 | 0 | 0 |
| P-104-07 | 1 | 0 | 1 |
| Q-107-02 | 5 | 0 | 1 |
| Q-115-09 | 1 | 0 | 0 |
| Q-121-04 | 1 | 0 | 0 |
| R18 | 8 | 0 | 1 |
| S-052-04 | 5 | 0 | 1 |
| T-080-02 | 14 | 2 | 0 |
| T-080-03 | 4 | 0 | 0 |
| T-089-04 | 2 | 0 | 1 |
| T-098-01 | 1 | 0 | 0 |
| W-086-03 | 1 | 0 | 0 |
| W-086-05 | 1 | 0 | 0 |

## III. NEXT QUARTER GOALS

### A. Priority Outfalls

#### 1. 7th & Cheltenham Outfall (T-088-01)

Goals for the Quarter

- Continue to monitor the operation of the diversion apparatuses.
- Continue sampling at the outfall with dry-weather flow.

#### 2. Monastery Ave. Outfall (W-060-01)

Goals for the Quarter

- Continue to monitor the operation of the diversion apparatuses.
- Continue sampling at the outfall with dry-weather flow.

**3. Monoshone Creek Outfalls (W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04 and W-068-05)**

Goals for the Quarter

- Continue sampling at outfall W-068-05 with dry-weather flow.

**4. Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)**

Goals for the Quarter

- Continue sampling at the outfalls with dry-weather flow.

**B. Other Outfalls**

**1. Sandyford Run Outfall (P-090-02)**

Goals for the Quarter

- Continue to monitor the operation of the diversion apparatus.

**2. Franklin and Hasbrook Outfall (T-089-04)**

Goals for the Quarter

- Continue to monitor the operation of the diversion apparatus.

**3.** Continue to perform abatements of identified cross-connections within the following outfalls.

- P-091-06
- P-091-08
- P-099-03
- P-099-05
- Q-107-02
- Q-110-09
- R18
- S-046-06
- S-052-03
- S-052-04
- S-052-05
- T-080-02
- T-080-03
- W-076-13
- W-086-01

**Table 1**
**DLC Program Summary**
**April 1, 2025 to June 30, 2025**

Complete Tests:

- 68,117 Complete tests have been performed under the DLC program
- **141 Complete tests were performed this past quarter**
- 24 Complete test was performed in outfall P-090-02
- 9 Complete test was performed in outfall P-091-01
- 1 Complete test was performed in outfall P-091-06
- 36 Complete test was performed in outfall P-091-08
- 2 Complete test was performed in outfall P-099-03
- 1 Complete test was performed in outfall P-099-05
- 1 Complete test was performed in outfall P-104-07
- 5 Complete test was performed in outfall Q-107-02
- 1 Complete test was performed in outfall Q-115-09
- 1 Complete test was performed in outfall Q-121-04
- 8 Complete test was performed in outfall R18
- 5 Complete test was performed in outfall S-052-04
- 24 Complete test was performed in outfall S-059-01
- 14 Complete test was performed in outfall T-080-02
- 4 Complete test was performed in outfall T-080-03
- 2 Complete test was performed in outfall T-089-04
- 1 Complete test was performed in outfall T-098-01
- 1 Complete test was performed in outfall W-086-03
- 1 Complete test was performed in outfall W-086-05

Cross-Connections Found:

- 2,045 Cross-connections have been identified under the DLC program
- **12 Cross-connection was identified this past quarter**
- 3 Cross-connection was identified in outfall P-090-02
- 7 Cross-connection was identified in outfall P-091-08
- 2 Cross-connection was identified in outfall T-080-02

Abatements:

- 1,984 Abatements have been performed under the DLC program
- **34 Abatements were performed this past quarter**
- 4 Abatement was performed in outfall P-090-02
- 1 Abatement was performed in outfall P-091-06
- 2 Abatement was performed in outfall P-091-08
- 2 Abatement was performed in outfall P-099-03
- 1 Abatement was performed in outfall P-099-05
- 1 Abatement was performed in outfall P-104-07
- 2 Abatement was performed in outfall Q-107-02
- 1 Abatement was performed in outfall Q-121-04
- 8 Abatement was performed in outfall R18
- 5 Abatement was performed in outfall S-052-04
- 2 Abatement was performed in outfall T-080-03
- 2 Abatement was performed in outfall T-089-04
- 1 Abatement was performed in outfall T-098-01
- 1 Abatement was performed in outfall W-086-03

- 1 Abatement was performed in outfall W-086-05

Outfall/Manhole Screening and Sampling:

- 16 outfall inspections were made as part of the **Priority Outfall Inspection Program** this past quarter.
- 10 outfall samples were taken due to observed dry-weather flow during the above inspections.

- 39 outfall inspections were made as part of the **Permit Inspection Program** this past quarter.
- 26 outfall samples were taken due to observed dry-weather flow during the above inspections.

Table 2
Lab Analysis of Water at Outfalls and.or in the Storm Sewers
April 1, 2025 to June 30, 2025

| Outfall | Date | Time | Location | Sewer Size (in) | Flow (GPM) | Fecal Count | Fluoride (mg/l) | Comments |
|---|---|---|---|---|---|---|---|---|
| **A. Priority Outfalls** | | | | | | | | |
| S-051-06 | 04/09/2025 | 11:40 | SW of Main & Rector Sts. | 10" | NF | NS | NS | Could not locate outfall as it appeared to be submerged in the canal. |
| S-059-07 | 04/10/2025 | 11:00 | W. of Towpath & Green Lane | 15" | NF | NS | NS | Outfall is halfway submerged with no visible flow. |
| S-059-06 | 06/11/2025 | 11:58 | Inter. of Towpath & Leverington Ave. | 21" | NF | NS | NS | Outfall does not exist. Confirmed by dye test in 2023. Rerouted to outfall S-059-07. |
| S-059-10 | 06/11/2025 | 12:10 | SE of Main St. & Green Lane | NA | NF | NS | NS | Outfall does not exist. |
| S-059-11 | 06/11/2025 | 12:18 | NW of Main & Carson Sts. | NA | NF | NS | NS | Outfall does not exist. |
| T-088-01 | 06/12/2025 | 11:27 | W. of Cheltenham Ave. & 7th St. | 84" | NF | 3873 | <0.20 | Clear, no sheen/odors |
| S-058-01 | 06/13/2025 | 11:52 | SW of Umbria St. & Domino Lane. | 54" | Submerged | 2419.60 | <0.20 | Sample Collected from Drop Pool |
| S-059-01 | 06/13/2025 | 12:08 | NE of Towpath & Parker Ave. | 60" | 12 | 24890.00 | <0.20 | Many fish around outfall following opening of canal |
| S-059-02 | 06/13/2025 | 12:25 | NE of Towpath & Fountain St. | 42" | 5 | >241960.00 | 0.51 | Many fish around outfall since opening of canal |
| P-090-02 | 06/24/2025 | 10:28 | S. of Brous Ave. & Roosevelt Blvd. | 156" | Submerged | 1401.00 | <0.20 | Standard conditions at outfall |
| W-068-05 | 06/24/2025 | 11:18 | NW Lincoln Drive & Morris St. | 90" | Submerged | 2909.00 | 0.40 | Slight flow at outfall, mixed with creek flow. Gray / stringy bacteria on rocks. |
| W-060-01 | 06/24/2025 | 12:12 | NE. of Monatery Lane & Janette St. | 0" | 1 | 3076.00 | <0.20 | Musty odor from outfall could also be observed along the trail. Path to the outfall is very steep and slippery. Vegetation not excessive but lots of thorns. |
| S-059-03 | 06/25/2025 | 10:46 | NE of Towpath & Wright St. | 42" | 360 | 770100.00 | <0.20 | Fish observed |
| S-059-04 | 06/25/2025 | 11:03 | Inter. of Towpath & Leverington Ave. Bridge | 51" | Submerged | 1710.00 | <0.20 | Observation of flow by sound. Turtle observed near outfall. |
| S-059-05 | 06/25/2025 | 11:03 | Inter. of Towpath & Leverington Ave. Bridge | 0" | NF | NS | NS | Turtle observed near outfall |
| S-059-09 | 06/25/2025 | 11:29 | Intersection of Main St. & Green Lane | 36" | 2 | 1100.00 | 0.24 | Water level appears higher than before. |
| **A. Permit Inspection Program** | | | | | | | | |
| P-100-18 | 04/01/2025 | 12:00 | NW of Willits & Cloverly Rds. | 15" | NF | NS | NS | No flow observed. At least one large trash item in plunge pool. |
| S-059-12 | 04/10/2025 | 11:30 | Flat Rock Drive & Fountain Street | 30" | 50 | <100.00 | 0.48 | Outfall has a cap over it but flow was still escaping. Brown film over rocks, potentially bacteria or algae. Large trash tangled in branches (sleeping bags/clothes). Nearby construction could potentially obstruct access to the outfall in the future. |
| S-066-01 | 04/10/2025 | 11:57 | Intersection of Nixon St. & Shawmont Ave. | 24" | 50 | <100.00 | 0.17 | Sampled from culvert- sample is mixed with stream water. Herbal/pine smell potentially from facility next to outfall. |
| P-104-08 | 04/10/2025 | 13:30 | S. of Krewston Rd. & Rising Sun Ave. | 36" | NF | NS | NS | no flow observed |
| P-099-01 | 04/21/2025 | 11:35 | NE of Tabor Ave. & Stanwood St. | 0" | 1 | 7270.00 | 0.10 | Bacterial growth & sewage smell in area but not from grab sample |
| P-100-25 | 04/22/2025 | 11:33 | Annapolis & Cloverly | 21" | NF | NS | NS | Outfall connects to dry channel leading to Wooden Bridge Run. Sheen observed at mouth of dry channel in stagnant puddles. |
| D-056-09 | 04/24/2025 | 11:20 | Intersection of Belgrade & Pratt Sts. | 24" | NF | NS | NS | Outfall cannot be accessed. Stagnant water in manholes D056-09-0010 and D056-09-0020. Water was clear, no sheen or odor, only dirt & plant matter. |
| D-074-01 | 04/24/2025 | 12:20 | E. of Bleigh St. & Delaware Ave. | 66" | NF | NS | NS | Outfall cannot be accessed. Observed stagnant water in manhole D074-01-0020, but could not open (sealed in concrete). |
| C-032-01 | 05/01/2025 | 11:00 | Intersection of Haverford Ave. & 69th St. | 54" | 0.833 | 2.00 | 0.51 | Outfall in culvert which is not accessible. Sampled from manhole C032-01-0010 and observed clear flow with no odor or sheen. Observed fish and snapping turtle in culvert near the outfall. |
| P-091-08 | 05/07/2025 | 11:27 | NW of Rowland & Hartel Aves. | 54" | NF | NS | NS | Outfall partially submerged, but water was stagnant. Water in the plunge pool was clear with no sheen or odor. Manhole P091-08-0010 is sealed, so could not check it for flow. |
| D-017-01 | 05/12/2025 | 11:15 | E. of Delaware & packer Aves. | 54" | NF | NS | NS | Outfall partially submerged (observed 2 hours after low tide). No visible flow out, water was flowing into it. Area above outfall is overgrown, so could not access it to sample. Nearby manhole is in busy road with many trucks entering the facility. |
| S-046-03 | 05/12/2025 | 13:08 | | 24" | Submerged | 167.00 | 0.00 | The outfall is about three quarter submerged into the stream. little bit of trash but heavy decaying vegetation and tree branches. Fluoride and fecal samples collected. Completed with LL |
| S-046-02 | 05/12/2025 | 13:25 | E. of Conshocken Ave. & Country Club Rd. | 36" | NF | 63.70 | 0.00 | Fluoride and fecal Samples collected. There was significant flow, and the base of the outfall apron was silty (yellowish in color). There were no reports of WMB within the period of sampling. Inspection/sampling completed with LL |
| P-116-02 | 05/19/2025 | 10:55 | Tomlinson Rd. & Rennard St. | 54" | 12 | 24196.00 | 0.10 | Clear flow observed, no odor, sheen, or sudsing. Multiple frogs observed. |
| P-105-07 | 05/20/2025 | 11:15 | NW Grant Ave. & Ashton Rd. | 48" | 8.33 | 199.00 | 0.12 | Clear flow observed with no odor or sheen. Slight amounts of surface scum. Bullfrog and fish observed. |
| P-113-12 | 05/20/2025 | 12:10 | NW of Red Lion Rd. & Bustleton Ave. | 18" | NF | NS | NS | No flow from outfall observed in culvert as it passes under Red Lion Rd. |
| T-056-05 | 05/27/2025 | 10:57 | N. of Luzerne & Almond Sts. | 48" | NF | 627.00 | 0.12 | Outfall partially submerged, no flow. Surface sheen and oil sheen along creek and in outfall opening. Musty odor in outfall and along creek. Inspected by boat with Phila Barge Company. |
| S-014-01 | 05/27/2025 | 12:57 | NW of 61st St. & Passyunk Ave. | 0" | NF | 565.00 | <0.10 | Outfall almost completely submerged. Sample taken near mouth of outfall but also contains river water. Decaying vegetation trapped in grate. Slight oil sheen on nearby water. Inspected by boat with Phila Barge Company. |
| S-019-01 | 05/27/2025 | 13:08 | SE of 58th St. & Easwick Ave. | 72" | NF | 683.00 | <0.10 | Outfall fully submerged and gate open. Sample taken right by gate. Branches, decaying vegetation and plastic bottles in the area. Slight trail of oil sheen a few feet from gate. Inspected by boat with Phila Barge Company. |
| S-051-07 | 06/03/2025 | 10:45 | SW of Main & Osborn Sts-Connelly Container Bridge | 21" | NF | 605.00 | 0.11 | Outfall partially submerged with no visible flow. Sampled from boat with Phila Barge Company. |
| S-051-01 | 06/03/2025 | 10:55 | 3798 Main St | 36" | NF | 235.00 | 0.12 | Outfall almost fully submerged with no visible flow. Sampled from boat with Phila Barge Company. Duck observed near the outfall. |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S-051-04 | 06/03/2025 | 11:15 | SW of Main & Grape Sts. | 39" | 0.0167 | 1076.00 | 0.18 | Outfall partially blocked by heavy deposition. Trickle flow observed. Sampled from boat with Phila Barge Company. |
| Q-114-19 | 06/09/2025 | 10:40 | Roosevelt Blvd & Comly | 15" | 6.00 | 17329.00 | 0.11 | Sampled at Pepsi parking lot culvert (area now fenced in and must scale along fence). Dry at time of sampling, but heavy rain morning of. Alot of dirt/mud runoff. Some slight oil sheen on the surface. |
| Q-114-20 | 06/09/2025 | 10:40 | Roosevelt Blvd & Comly | 18" | 6.00 | 19863.00 | 0.22 | Sampled at Pepsi parking lot culvert (area now fenced in and must scale along fence). Dry at time of sampling, but heavy rain morning of. Alot of dirt/mud runoff. Some slight oil sheen on the surface. |
| Q-114-21 | 06/09/2025 | 10:45 | Roosevelt Blvd & Comly | 15" | 6.00 | 19863.00 | 0.11 | Sampled at Pepsi parking lot culvert (area now fenced in and must scale along fence). Dry at time of sampling, but heavy rain morning of. Alot of dirt/mud runoff. Some slight oil sheen on the surface. |
| Q-114-22 | 06/09/2025 | 10:45 | Roosevelt Blvd & Comly | 36" | 6.00 | 15531.00 | 0.23 | Sampled at Pepsi parking lot culvert (area now fenced in and must scale along fence). Dry at time of sampling, but heavy rain morning of. Alot of dirt/mud runoff. Some slight oil sheen on the surface. |
| Q-114-23 | 06/09/2025 | 10:50 | Roosevelt Blvd & Comly | 24" | 6.00 | 15531.00 | 0.11 | Sampled at Pepsi parking lot culvert (area now fenced in and must scale along fence). Dry at time of sampling, but heavy rain morning of. Alot of dirt/mud runoff. Some slight oil sheen on the surface. |
| P-104-11 | 06/13/2025 | 10:00 | Winchester & Bustleton | 24" | NF | 313.00 | 0.00 | Accessed by following Pennypack Trail and walking across the creek. No flow. Creek flowing back into outfall area. Sample taken directly in front of outfall. |
| P-105-06 | 06/13/2025 | 10:39 | Intersection of Old Bustleton Ave. & Gregg St. | 0" | NF | 1100.00 | <0.20 | |
| M-005-13 | 06/13/2025 | 10:40 | Mingo Creek | 070" | 0.167 | <100.00 | 0.25 | Outfall is in a culvert- sampled as close to outfall as possible. Lots of algae and orange bacteria. Surface scum observed ~50 ft downstream. |
| P-112-06 | 06/13/2025 | 11:00 | Palmer Dr. & Country Club Blvd. | 18" | NF | NS | NS | Located on Palmer Dr behind a white fence. |
| M-005-02 | 06/13/2025 | 11:23 | Mingo & Bartram | 080" | 1 | 1450.00 | <0.20 | Mingo Ave; red staining (possible bacterial growth)/rust, oily, and film/coating<br>Saw geese, a turtle; lots of daphnia collected in water samples |
| M-005-03 | 06/13/2025 | 12:00 | Bartram & Mingo | 18" | NF | NS | NS | Could not access outfall- it is located down a steep and overgrown hill. Inspected manhole M005-03-0005 and it was dry. |
| P-092-04 | 06/13/2025 | 12:00 | NE of Pennypack & Crispin Sts. | 18" | NF | 145.00 | 0.00 | State Rd. to Ashburner and make a right, take to Frankford Ave. and make a Right. Make a Left onto Pennypack Ave and right on Crispin St., follow to backyards on the left from Harvard Pl. - Large aerated pond with fish. Slight sheen observed on surface near opening. |
| M-005-01 | 06/13/2025 | 12:20 | Southwest WPCP | 72" | 1 | 200.00 | <0.20 | Lots of red daphnia; outfall is in a colvert, samples close to mouth of outfall, no visible flow from outfall, many patches of bubbles/foam of a brown/black color, water has a yellowish tint but is clear |
| P-106-23A | 06/17/2025 | 09:30 | LAVENDER ST & GLENN ST | 18" | NF | NS | NS | Large bundles of tied up branches and yard waste dumped on and around the outfall. Must climb downhill on top of the yard waste to access. Puddle observed at outfall opening but, no flow. |
| D-050-01 | 06/17/2025 | 11:23 | Delaware & Castor | 36" | NF | NS | NS | Outfall dry. No evidence of interconnection. |
| Q-115-11 | 06/25/2025 | 11:39 | E. of Vinton & teton Rds. - Behind 3585 Teton Rd. | 42" | NF | 10170.00 | <0.20 | |
| M-002-03 | 06/27/2025 | 11:45 | N. of Air Force Service Rd. & Island Ave. | 66" | NF | NS | NS | Outfall is located in a very overgrown area and could not be accessed. It should be inspected in winter and/or by contacting the airport 2+ months in advance to clear out the vegetation. Our contact Xiao (Lucy) Lin advised us that the inspection was unsafe in its current state. Her contact info is xiao.lin@phl.org 267-255-0501 |

PHILADELPHIA WATER DEPARTMENT

# DEFECTIVE LATERAL SYSTEM
# NOD - Over 120 Days Report

## Status of Properties

| Address | Outfall Code | Complete Date | Admin Action | Comment |
|---|---|---|---|---|
| 8127 Algon Ave | P-090-02 | 11/19/2024 | | |
| 1819 Fox Chase Rd | P-099-03 | 06/22/2024 | | |
| 5828 Weymouth St | T-080-03 | 06/29/2024 | | |
| 1920 Afton St | P-090-02 | 04/13/2024 | | |
| 276 Fountain St | S-059-02 | 04/17/2024 | | |
| 2038 Oakmont St | P-090-02 | 05/18/2024 | | |
| 2119 Oakmont St | P-090-02 | 05/28/2024 | | |
| 2222 Strahle St | P-099-05 | 03/30/2024 | | |
| 2225 Strahle St | P-099-05 | 03/23/2024 | | |
| 2226 Strahle St | P-099-05 | 03/14/2024 | | |
| 2227 Strahle St | P-099-05 | 04/06/2024 | | |
| 1902 Afton St | P-090-02 | 02/27/2024 | | |
| 2124 Afton St | P-090-02 | 02/23/2024 | | |
| 1714 Faunce St | P-090-02 | 03/02/2024 | | |
| 7714 Matthias St | W-076-13 | 10/04/2023 | | |
| 5801 Newtown Ave | T-080-03 | 09/05/2023 | | |
| 5836 Weymouth St | T-080-03 | 11/18/2023 | | |
| 5822 Newtown Ave | T-080-03 | 06/24/2023 | | |
| 5830 Newtown Ave | T-080-03 | 08/05/2023 | | |
| 5833 Reach St | T-080-03 | 08/19/2023 | | |
| 5830 Weymouth St | T-080-03 | 08/02/2023 | | |
| 5832 Weymouth St | T-080-03 | 07/29/2023 | | |
| 5839 Weymouth St | T-080-03 | 07/31/2023 | | |
| 5843 Weymouth St | T-080-03 | 07/29/2023 | | |
| 5848 Weymouth St | T-080-03 | 08/03/2023 | | |
| 3441 Holyoke Rd | Q-101-05 | 03/25/2023 | | |
| 101 E Mermaid La | W-086-01 | 02/13/2023 | | |
| 3501 New Queen St | S-052-04 | 10/30/2021 | | |
| 1410 E Hunting Park Ave | R18 | 07/30/2021 | | |
| 2216 Emerson St | P-091-06 | 03/22/2021 | | |
| 3613 Haywood St | S-052-04 | 03/29/2021 | | |
| 3617 Midvale Ave | S-052-04 | 06/02/2021 | | |

PHILADELPHIA WATER DEPARTMENT

# DEFECTIVE LATERAL SYSTEM
# NOD - Over 120 Days Report

## Status of Properties

| Address | Outfall Code | Complete Date | Admin Action | Comment |
|---|---|---|---|---|
| 2128 Emerson St | P-091-06 | 10/24/2020 | | |
| 2320 Benson St | P-091-06 | 01/06/2020 | | |
| 1441 E Hunting Park Ave | R18 | 02/29/2020 | | |
| 2623 W Allegheny Ave | S-046-06 | 10/05/2019 | | |
| 4014 Castor Ave | R18 | 10/08/2019 | | |
| 4024 Castor Ave | R18 | 09/17/2019 | | |
| 4030 Castor Ave | R18 | 10/12/2019 | | |
| 4033 Castor Ave | R18 | 10/08/2019 | | |
| 4259 Castor Ave | R18 | 10/22/2019 | | |
| 4261 Castor Ave | R18 | 10/26/2019 | | |
| 1431 E Lycoming St | R18 | 11/02/2019 | | |
| 4143 M St | R18 | 09/21/2019 | | |
| 1409 E Lycoming St | R18 | 08/13/2019 | | |
| 1447 E Lycoming St | R18 | 08/26/2019 | | |
| 4122 M St | R18 | 07/06/2019 | | |
| 4122 Markland St | R18 | 08/05/2019 | | |
| 4142 Markland St | R18 | 08/03/2019 | | |
| 4245 Ormond St | R18 | 06/08/2019 | | |
| 4219 Castor Ave | R18 | 05/02/2019 | | |
| 3023 Comly Rd | Q-110-09 | 03/12/2019 | | |
| 4236 Neilson St | R18 | 06/01/2019 | | |
| 4249 Neilson St | R18 | 05/04/2019 | | |
| 4250 Neilson St | R18 | 04/25/2019 | | |
| 5922 Newtown Ave | T-080-02 | 04/26/2019 | | |
| 5930 Newtown Ave | T-080-02 | 04/22/2019 | | |
| 4254 O St | R18 | 04/06/2019 | | |
| 8726 Cottage St | P-083-03 | 12/22/2018 | | |
| 3454 W Penn St | S-052-04 | 10/24/2018 | | |
| 4456 Riverview La | S-052-03 | 09/26/2018 | | |
| 3469 W Queen La | S-052-04 | 07/17/2018 | | |
| 3433 Crawford St | S-052-04 | 05/26/2018 | | |
| 3317 W Penn St | S-052-04 | 06/02/2018 | | |
| 3340 W Penn St | S-052-04 | 03/03/2018 | | |

# DEFECTIVE LATERAL SYSTEM
# NOD - Over 120 Days Report

| Status of Properties | | | | |
|---|---|---|---|---|
| **Address** | **Outfall Code** | **Complete Date** | **Admin Action** | **Comment** |
| 3449 W Penn St | S-052-04 | 05/03/2018 | | |
| 3305 Tilden St | S-052-04 | 03/24/2018 | | |
| 3425 Conrad St | S-052-04 | 03/01/2018 | | |
| 1941 Kentwood St | Q-109-07 | 01/19/2018 | | |
| 3424 W Penn St | S-052-04 | 02/17/2018 | | |
| 220 Rock St | S-052-05 | 08/19/2016 | | |

**Table 4**
**Spills to Storm Sewers and/or Receiving Waters**
**April 1, 2025 to June 30, 2025**

| Date | Outfall | Address | Source Code | Material Involved | Completion Date | Remarks |
|---|---|---|---|---|---|---|
| 04/16/25 | Q-110-11 | 11920 Waldemire Drive Byberry Creek | 3011 | Sewage | 04/16/25 | Industrial Waste received reports of gray discharge coming from outfall Q-110-11. The Sewer Maintenance Unit cleared a choke located at Waldemire and Newberry to resolve the issue. The Water Restoration Team cleaned up the area. |
| 04/24/25 | S-046-07 | 3901 Conshohocken Ave. Roberts Run (Schuykill River Tributary) | 3011 | Sewage | 04/24/25 | Sewage leaked out of a force main during an excavation at the Neill Drive Pump Station. Bypass pumping was already in place, so pumping was switched from the force main to the bypass main to stop the overflow. Remaining flow in the force main drained back to the pump station. No solids or impact was observed along the stream, so no restoration or cleaning was needed from the Water Restoration Team. |
| 04/24/25 | S-059-04 | 4846 Umbria Street | 3008 | Sewage | 04/24/25 | A choked sewer caused sewage discharge into the basement of 4648 Umbria. Sewer Maintenance relieved the sewer. The sewer was then cleaned and vacuumed. |
| 05/01/25 | Q-107-01 | Telfair Rd. and Greenmont Rd. | 3011 | Sewage | 05/01/25 | The Sewer Maintenance Unit identified a blockage caused by grease build up. The build up caused a discharge of about 0.5 gpm. The choke was relieved using a flusher. The Water Restoration Team cleaned up the area, and the job was referred to CCTV for follow up. |
| 05/12/25 | T-08 | 2800 Cheltenham Ave. | 3011 | Sewage | 05/12/25 | The Sewer Maintenance Unit responded to reports of a choked sewer that caused sewage discarge into the Tookany Creek. The choked sewer was relieved and subsequently cleaned and vacuumed. |
| 06/05/25 | S-046-06 | 2401 Roberts Ave. Schuykill River | 3011 | Petroleum | 06/06/25 | Industrial Waste investigated a report of runoff from an EV and diesel bus fire. The runoff from the fire discharged into the Schuykill at S-046-06. Samples taken at the outfall found 0.039mg/L lithium ion. |

**Source Codes:**

**3008 - Spill to Ground Only**
**3009 Spill to Storm Sewer**
**3010 - Spill to Sanitary Sewer**
**3011 - Spill to Receiving Stream**

**STORM WATER MANAGEMENT PROGRAM**
**NPDES PERMIT NO. PA0054712**

# DEFECTIVE LATERAL CONNECTION STATUS REPORT
**(Covering Period from July 1, 2024 to September 30, 2024)**

Submitted to

**PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION**
**BUREAU OF WATER QUALITY MANAGEMENT**

By
**CITY OF PHILADELPHIA**
**PHILADELPHIA, PA**

November 12, 2024

**DLC Program Update**
**3rd Quarter 2024**

## I. INTRODUCTION

This Defective Lateral Connection Status Report is submitted to the Pennsylvania Department of Environmental Protection (PADEP) as part of the reporting requirements of the City of Philadelphia NPDES Storm Water Management Permit No. PA 0054712. The report covers the three-month period beginning July 1, 2024 and ending September 30, 2024.

The body of this report will describe the recent activities of the City during the past quarter within the 1998 COA Priority Outfall areas and at other significant outfalls on the Stormwater Outfall Priority Score list. Additionally, goals for the next quarter will be listed.

Table 1 provides a summary of the program with respect to Complete tests, Crossconnections identified, and Abatements performed. Table 2 provides a listing of all laboratory analyses of samples taken at stormwater outfalls or within the stormwater system during the previous quarter. Table 3 provides a listing of properties with crossconnections outstanding greater than 120 days. Finally, Table 4 provides a listing of reported wastewater spills to the stormwater system or receiving streams.

## II. PAST QUARTER REVIEW

### A. Priority Outfalls

#### 1. 7th & Cheltenham Outfall (T-088-01)

DLC program activities have performed 2,906 Complete tests in this sewershed, identifying 134 Cross-connections, all of which have been Abated.

DLC program activities have performed 2,831 Complete tests in this sewershed, identifying 134 Cross-connections, all of which have been Abated.
Eight (8) sites intercepting flow are listed below.

1. CFD-01 Plymouth St. west of Pittsville St.
2. CFD-02 Pittsville St. south of Plymouth St.
3. CFD-03 Elston St. east of Bouvier St.
4. CFD-04 Ashley St. west of Bouvier St.
5. CFD-05 Cheltenham Ave. east of 19th St.
6. CFD-06 Verbena St. south of Cheltenham Ave.
7. CFD-07 Cheltenham Ave. east of 7th St.
8. CFD-08 7th St. south of Cheltenham Ave.

The number of inspections, blockages cleared, and discharges noted during this quarter

are listed below.

| Flap Gate | Inspections | Blockages | Discharges |
|---|---|---|---|
| CFD-01 | 4 | 0 | 0 |
| CFD-02 | 4 | 1 | 0 |
| CFD-03 | 5 | 0 | 0 |
| CFD-04 | 5 | 0 | 0 |
| CFD-05 | 8 | 1 | 0 |
| CFD-06 | 8 | 0 | 0 |
| CFD-07 | 18 | 1 | 0 |
| CFD-08 | 17 | 0 | 0 |

The most recent fecal sample value was 12,033 MPN per 100 ml. at the outfall on September 3, 2024.

**2. Monastery Ave. Outfall (W-060-01)**

DLC program activities have performed 638 Complete tests in this sewershed, identifying 17 Cross-connections, all of which have been Abated.

Two (2) sites intercepting flow are listed below.

1. MFD-01 Jannette St. west of Monastery Ave.
2. MFD-02 Green La. North of Lawnton St.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

| Flap Gate | Inspections | Blockages | Discharges |
|---|---|---|---|
| MFD-01 | 5 | 0 | 0 |
| MFD-01 | 5 | 0 | 0 |

The most recent fecal sample value was >24,196 MPN per 100 ml. at the outfall on September 9, 2024.

**3. Monoshone Creek Outfalls (W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04 and W-068-05)**

DLC program activities have performed 2,825 Complete tests in these sewershed areas, identifying 95 Cross-connections, all of which have been Abated. The majority of the efforts have been in the W-068-05 sewershed area which is by far the largest in terms of drainage area and properties served.

The most recent fecal sample value was 12,033MPN per 100 ml. at W-068-05 outfall on August 14, 2024.

### 4. Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)

DLC program activities have performed 2,505 Complete tests in these sewershed areas, identifying 65 Cross-connections, 64 of which have been abated. The majority of the efforts have been in the S-059-04 sewershed area.

The most recent fecal sample values at each outfall were:

- 750 MPN per 100 ml. at the S-058-01 outfall on September 4, 2024.
- 125,90 MPN per 100 ml. at the S-059-01 outfall on September 4, 2024.
- 72,700 MPN per 100 ml. at the S-059-02 outfall on September 4, 2024.
- >241,960 MPN per 100 ml. at the S-059-03 outfall on September 5, 2024.
- 10,810 MPN per 100 ml. at the S-059-04 outfall on September 5, 2024.
- No flow at the S-059-05 outfall on September 5, 2024.
- 39,680 MPN per 100 ml. at the S-059-09 outfall on September 5, 2024.

## B. Other Outfalls

### 1. Sandyford Run Outfall (P-090-02)

DLC program activities have performed 5,821 Complete tests in this sewershed, identifying 100 Cross-connections, 92 of which have been Abated.

One (1) site intercepting flow is listed below.

PFD-01 Sandyford Run (Brous and Lexington Aves.)

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

| Flap Gate | Inspections | Blockages | Discharges |
|---|---|---|---|
| PFD-01 | 18 | 2 | 0 |

The most recent fecal sample value was 1,664 MPN per 100 ml. at the P-090-02 outfall on August 29,2024.

### 2. Franklin and Hasbrook Outfall (T-089-04)

DLC program activities have performed 1,031 Complete tests in this sewershed, identifying 46 Cross-connections, 44 of which have been Abated.
One (1) site intercepting flow is listed below.

CFD-01 Franklin and Hasbrook Aves.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

| Flap Gate | Inspections | Blockages | Discharges |
|---|---|---|---|
| CFD-01 | 19 | 1 | 1 |

No sample was taken this quarter.

A current summary of additional outfalls from the Stormwater Outfall Priority Score list that the City has performed complete testing or abatements this quarter is as follows.

| Outfall # | Completed Test | Cross Connection | Abatement |
|---|---|---|---|
| P-083-03 | 66 | 4 | 2 |
| P-090-02 | 14 | 0 | 0 |
| P-091-07 | 20 | 1 | 0 |
| P-091-11 | 12 | 0 | 0 |
| P-099-03 | 60 | 4 | 0 |
| P-099-05 | 1 | 0 | 1 |
| Q-101-05 | 0 | 0 | 1 |
| Q-121-04 | 0 | 0 | 1 |
| S-052-03 | 0 | 0 | 4 |
| S-052-04 | 0 | 0 | 4 |
| T-080-03 | 0 | 0 | 1 |
| W-076-13 | 0 | 0 | 1 |
| W-086-03 | 0 | 0 | 0 |
| W-086-05 | 0 | 0 | 1 |

## III. NEXT QUARTER GOALS

### A. Priority Outfalls

- **7th & Cheltenham (T-088-01),**
- **Monastery Ave (W-060-01),**
- **Monoshone Creek Outfalls (W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04 and W-068-05)**
- **Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)**

Goals for the Quarter

- Continue to monitor the operation of the diversion apparatuses at T-088-01 & W-060-01.
- Continue sampling at the outfalls with dry-weather flow.

### B. Other Outfalls

Goals for the Quarter

- Continue to monitor the operation of the diversion apparatuses at P-090-02 & T-089-04

- Continue to perform abatements of all identified cross connections.
- Continue to perform property testing within the following outfall sheds in the following quarter:
    - P-083-03
    - P-090-02
    - P-091-11
    - P-099-03
    - P-099-05

**DLC Program Summary**
**July 1, 2024 to September 30, 2024**

| Outfall/Criteria | # of Complete Tests | # of Cross Connections Found | # of Abatements Completed |
|---|---|---|---|
| **DLC Program History** | **65,729** | **1,913** | **1,793** |
| **Quarter** | **173** | **9** | **16** |
| **P-083-03** | 66 | 4 | 2 |
| **P-090-02** | 14 | 0 | 0 |
| **P-091-07** | 20 | 1 | 0 |
| **P-091-11** | 12 | 0 | 0 |
| **P-099-03** | 60 | 4 | 0 |
| **P-099-05** | 1 | 0 | 1 |
| **Q-101-05** | 0 | 0 | 1 |
| **Q-121-04** | 0 | 0 | 1 |
| **S-052-03** | 0 | 0 | 4 |
| **S-052-04** | 0 | 0 | 4 |
| **T-080-03** | 0 | 0 | 1 |
| **W-076-13** | 0 | 0 | 1 |
| **W-086-05** | 0 | 0 | 1 |

Outfall/Manhole Screening and Sampling:

- 9 outfall inspections were made as part of the **Priority Outfall Inspection Program** this past quarter.
- 8 outfall samples were taken due to observed dry-weather flow during the above inspections.
- 24 outfall inspections were made as part of the **Permit Inspection Program** this past quarter.
- 10 outfall samples were taken due to observed dry-weather flow during the above inspections.

**Table 2**
**Lab Analysis of Water at Outfalls and/or in the Storm Sewers**
**July 1, 2024 to September 30, 2024**

| Outfall | Date | Time | Location | Sewer Size (noted) | Flow (gph) | Fecal Count (MPN per 100 ml) | Fluoride (mg/l) | Comments |
|---|---|---|---|---|---|---|---|---|
| **A. Priority Outfalls** | | | | | | | | |
| S-058-01 | 09/04/2024 | 11:08 | SW of Umbria St. & Domino Lane. | 54" | Submerged | 750.00 | 0.24 | Outfall observed at drop pool |
| S-059-01 | 09/04/2024 | 11:23 | NE of Towpath & Parker Ave | 60" | 6.00 | 12590.000 | <0.20 | No fish observed on this observation |
| S-059-02 | 09/04/2024 | 11:35 | NE of Towpath & Fountain St. | 42" | 30 | 72700.000 | 0.65 | Significant sewage odo |
| S-059-03 | 09/05/2024 | 09:55 | NE of Towpath & Wright St. | 42" | 60 | >241960.00 | 0.25 | Significant matting & severe sewage odo |
| S-059-04 | 09/05/2024 | 10:03 | Inter. of Towpath & Leverington Ave. Bridg | 51" | Submerged | 10810.000 | 0.26 | Significant Algal Growth |
| S-059-05 | 09/05/2024 | 10:03 | Inter. of Towpath & Leverington Ave. Bridg | 0" | NF | NS | NS | No indication of flow from this sid |
| S-059-09 | 09/05/2024 | 10:30 | Intersection of Main St. & Green Lan | 36" | 3.00 | 39680.000 | 0.71 | Increase of interconnection evidenc |
| T-088-01 | 09/03/2024 | 11:20 | W. of Cheltenham Ave. & 7th St. | 84" | NR | 12033.00 | <0.20 | Slight musty odor observe |
| W-060-01 | 09/09/2024 | 12:20 | NE. of Monatery Lane & Janette St. | 0" | Submerged | >24196.00 | <0.20 | Water trickling from base of outfall, maybe from multiple locations. Water potentially percolating through foundation of outfall |
| **B. Permit Inspection Program** | | | | | | | | |
| D-036-02 | 09/13/2024 | 14:11 | E. of Spring Garden St. & Delaware Ave. | 24" | NF | NS | NS | Outfall rerouted by private development to D47 SWO. Outfall no longer exists. |
| D-037-01 | 09/13/2024 | 10:50 | Beach & Richmond Sts. | 20" | NF | NS | NS | Outfall No Longer Exists |
| D-092-05 | 09/16/2024 | 10:30 | SE of Linden & Delaware Aves. | 0" | NF | NS | NS | Tidal outfall, outfall submerged. Observed dry at manhole: D-092-05-0015. Downstream outfalls apparently full of tidal water |
| D-093-01 | 09/16/2024 | 11:55 | SE. of State Rd. & Convent La. | 0" | NF | NS | NS | Tidal Influence. Observed at manhole D-093-01-0025 |
| P-090-02 | 08/29/2024 | 10:14 | S. of Brous Ave. & Roosevelt Blvd. | 156" | Submerged | 1664.000 | <0.20 | Strong sewage odor indicating cross connection |
| P-101-01 | 08/29/2024 | 12:49 | E. of Woodbridge & Saxton Rds. | 24" | 0.33 | 520.00 | <0.20 | Flow observed, slight oil sheen, slight suspended solids, slight sudsing, some sediments, decaying vegetation and tree branches, fish, and algae present. |
| P-103-03 | 09/05/2024 | 09:30 | N. of Hoffnagle St. & Rockwell Ave. | 42" | NF | NS | NS | Path to outfall was overgrown and could not be determined. Small amount of water observed at bottom of manhole P-103-03-0012. No samples were taken. No other observations were made. Will re-visit location at a later date. |
| P-103-04 | 09/05/2024 | 08:45 | 503 Ridgerun Ln | 36" | 0.15 | <100.00 | <0.20 | Musty/sweet odor; thin surface scum layer; algae, flying insects, |
| P-105-08 | 08/29/2024 | 12:16 | NW of grant Ave. & Ashton Rd. | 36" | 1 | 7701.00 | 0.31 | Slight sheen and slight suspended solids |
| P-116-01 | 09/03/2024 | 12:35 | Rennard St. @ Pumping Station | 60" | NF | NS | NS | Key needed for entry. |
| Q-110-05 | 09/05/2024 | 11:10 | N. of Drummond & Red Lion Rds.-10447 Drummond Rd | 66" | .15 | 14830.00 | 0.27 | Slight flow |
| T-063-01 | 09/19/2024 | 09:30 | SW of Whitaker Ave. & Pennway St. | 18" | NF | NS | NS | Outfall not seen at river. Nearest manhole (T-063-01 M0010) was dry. |
| T-063-02 | 09/19/2024 | 10:30 | S. of "I" St. & Wyoming Ave. | 36" | NF | NS | NS | Creek too deep to wade, no shore access. Closest manhole T-063-02-0010 was almost completely dry. Some stagnant water at bottom but no flow. |
| T-063-04 | 09/20/2024 | 10:00 | NE of Wingohocking and Frogmoor Sts. | 30" | NF | NS | NS | Some stagnant water at mouth of outfall but no flow. |
| T-079-01 | 09/20/2024 | 09:15 | E. of Crescentville Rd. & Adams Avenue | 66" | 15.86 | 3448.00 | 0.20 | Cl2 reading 0.1 mg/L. Heavy flow. |
| T-079-02 | 09/19/2024 | 11:45 | S. of Adams Ave. & Cresentville Rd. | 24" | NF | NS | NS | Outfall bed had some stagnant water, no flow. |
| T-089-02 | 09/17/2024 | 10:30 | NW of Hasbrook Ave. & Kerper St. | 30" | NF | NS | NS | Completely dry. Outfall collapsed. It is now essentially a hole in a bank littered with bricks and concrete pieces. |
| T-089-03 | 09/17/2024 | 09:25 | NW of Woodland & Lincoln Aves. | 42" | .57 | 199.00 | 0.56 | 1.9 mg/L CL2 reading. |
| T-097-01 | 09/17/2024 | 10:00 | Cheltenham Ave. & Vernon Rd. | 42" | NF | NS | NS | This outfall is at a manhole. Opened manhole and observed only small amount of still water at bottom of deep chamber. No flow. |
| T-098-01 | 08/06/2024 | 13:40 | NE of Fillmore St. & Shelmire Ave. | 54" | 1 | >24196.00 | 0.89 | Slight sewage odor |
| W-068-05 | 08/14/2024 | 10:15 | NW Lincoln Drive & Morris St. | 90" | NF | 12033 | <0.20 | No odor, water table in creek was lower than normal, sediments were visible in collected water. |
| W-084-03 | 09/23/2024 | 10:35 | NE of Lykens Lane & Ronnie Circle | 18" | 2 | 41.00 | 0.73 | Significant flow since last inspection |
| W-086-03 | 09/18/2024 | 13:28 | NW of Devon St. & Roumfort Rd. | 42" | NF | NS | NS | No issues with outfall |
| W-095-05 | 09/19/2024 | 10:15 | E. Stenton Ave. & Newton St. | 30" | NF | NS | NS | No flow observed from W-095-05-0030 manhole. Culvert flows through outfall. |

PHILADELPHIA WATER DEPARTMENT

# DEFECTIVE LATERAL SYSTEM
# NOD - Over 120 Days Report

## Status of Properties

| Address | Outfall Code | Complete Date | Admin Action | Comment |
|---|---|---|---|---|
| 01920 Afton St | P-090-02 | 04/13/2024 | | |
| 00276 Fountain St | S-059-02 | 04/17/2024 | | |
| 02038 Oakmont St | P-090-02 | 05/18/2024 | | |
| 02119 Oakmont St | P-090-02 | 05/28/2024 | | |
| 02222 Strahle St | P-099-05 | 03/30/2024 | | |
| 02225 Strahle St | P-099-05 | 03/23/2024 | | |
| 02226 Strahle St | P-099-05 | 03/14/2024 | | |
| 02227 Strahle St | P-099-05 | 04/06/2024 | | |
| 01902 Afton St | P-090-02 | 02/27/2024 | | |
| 02115 Afton St | P-090-02 | 01/11/2024 | | |
| 02124 Afton St | P-090-02 | 02/23/2024 | | |
| 01714 Faunce St | P-090-02 | 03/02/2024 | | |
| 15039 Poquessing Crk La | Q-121-04 | 01/05/2024 | | |
| 07454 Devon St | W-086-03 | 11/17/2023 | | |
| 07714 Matthias St | W-076-13 | 10/04/2023 | | |
| 05801 Newtown Ave | T-080-03 | 09/05/2023 | | |
| 15040 Poquessing Crk La | Q-121-04 | 11/27/2023 | | |
| 15044 Poquessing Crk La | Q-121-04 | 11/11/2023 | | |
| 15059 Poquessing Crk La | Q-121-04 | 11/27/2023 | | |
| 00146 Roumfort Rd | W-086-03 | 10/07/2023 | | |
| 00156 Roumfort Rd | W-086-03 | 10/12/2023 | | |
| 05836 Weymouth St | T-080-03 | 11/18/2023 | | |
| 00515 Cloister Cir | S-075-03 | 07/01/2023 | | |
| 00131 E Mermaid La | W-086-01 | 06/30/2023 | | |
| 05805 Newtown Ave | T-080-03 | 07/08/2023 | | |
| 05817 Newtown Ave | T-080-03 | 06/17/2023 | | |
| 05822 Newtown Ave | T-080-03 | 06/24/2023 | | |
| 05830 Newtown Ave | T-080-03 | 08/05/2023 | | |
| 05834 Newtown Ave | T-080-03 | 06/20/2023 | | |
| 05839 Newtown Ave | T-080-03 | 07/05/2023 | | |
| 05850 Newtown Ave | T-080-03 | 08/04/2023 | | |
| 07312 Palmetto St | T-089-04 | 06/03/2023 | | |

PHILADELPHIA WATER DEPARTMENT

# DEFECTIVE LATERAL SYSTEM
# NOD - Over 120 Days Report

## Status of Properties

| Address | Outfall Code | Complete Date | Admin Action | Comment |
|---|---|---|---|---|
| 05833 Reach St | T-080-03 | 08/19/2023 | | |
| 05830 Weymouth St | T-080-03 | 08/02/2023 | | |
| 05832 Weymouth St | T-080-03 | 07/29/2023 | | |
| 05834 Weymouth St | T-080-03 | 08/09/2023 | | |
| 05835 Weymouth St | T-080-03 | 08/03/2023 | | |
| 05839 Weymouth St | T-080-03 | 07/31/2023 | | |
| 05843 Weymouth St | T-080-03 | 07/29/2023 | | |
| 05846 Weymouth St | T-080-03 | 07/29/2023 | | |
| 05848 Weymouth St | T-080-03 | 08/03/2023 | | |
| 05852 Weymouth St | T-080-03 | 08/01/2023 | | |
| 00639 Wises Mill Rd | W-076-13 | 08/15/2023 | | |
| 07312 Lawndale Ave | T-089-04 | 03/27/2023 | | |
| 00508 Murdoch Rd | W-086-05 | 05/27/2023 | | |
| 00510 Murdoch Rd | W-086-05 | 05/27/2023 | | |
| 00101 E Mermaid La | W-086-01 | 02/13/2023 | | |
| 00715 Arnold St | P-104-07 | 10/25/2022 | | |
| 07915 Burholme Ave | T-098-01 | 10/15/2022 | | |
| 01128 Brighton St | P-090-02 | 06/25/2022 | | |
| 01816 Benson St | P-099-03 | 05/14/2022 | | |
| 01742 Bergen St | P-099-03 | 05/07/2022 | | |
| 01826 Benson St | P-099-03 | 01/15/2022 | | |
| 04040 Castor Ave | R18 | 10/23/2021 | | |
| 01829 Kendrick St | P-099-03 | 09/25/2021 | | |
| 03501 New Queen St | S-052-04 | 10/30/2021 | | |
| 00207 Passmore St | T-089-01 | 09/11/2021 | | |
| 07627 Germantown Ave | W-086-02 | 07/21/2021 | | |
| 01410 E Hunting Park Ave | R18 | 07/30/2021 | | |
| 02216 Emerson St | P-091-06 | 03/22/2021 | | |
| 03602 Haywood St | S-052-04 | 03/27/2021 | | |
| 03643 Haywood St | S-052-04 | 03/29/2021 | | |
| 04150 Markland St | R18 | 06/02/2021 | | |
| 03617 Midvale Ave | S-052-04 | 06/02/2021 | | |
| 04118 Castor Ave | R18 | 12/05/2020 | | |

PHILADELPHIA WATER DEPARTMENT

# DEFECTIVE LATERAL SYSTEM
# NOD - Over 120 Days Report

## Status of Properties

| Address | Outfall Code | Complete Date | Admin Action | Comment |
|---|---|---|---|---|
| 03460 Division St | S-052-04 | 01/23/2021 | | |
| 02128 Emerson St | P-091-06 | 10/24/2020 | | |
| 02214 Hoffnagle St | P-091-06 | 10/26/2020 | | |
| 02320 Benson St | P-091-06 | 01/06/2020 | | |
| 01441 E Hunting Park Ave | R18 | 02/29/2020 | | |
| 04123 Markland St | R18 | 02/06/2020 | | |
| 02623 W Allegheny Ave | S-046-06 | 10/05/2019 | | |
| 04014 Castor Ave | R18 | 10/08/2019 | | |
| 04023 Castor Ave | R18 | 09/04/2019 | | |
| 04024 Castor Ave | R18 | 09/17/2019 | | |
| 04030 Castor Ave | R18 | 10/12/2019 | | |
| 04033 Castor Ave | R18 | 10/08/2019 | | |
| 04051 Castor Ave | R18 | 09/11/2019 | | |
| 04259 Castor Ave | R18 | 10/22/2019 | | |
| 04261 Castor Ave | R18 | 10/26/2019 | | |
| 01431 E Lycoming St | R18 | 11/02/2019 | | |
| 04143 M St | R18 | 09/21/2019 | | |
| 04215 M St | R18 | 09/24/2019 | | |
| 04224 Markland St | R18 | 09/14/2019 | | |
| 04259 Neilson St | R18 | 12/02/2019 | | |
| 04309 Glendale St | R18 | 06/15/2019 | | |
| 01404 E Lycoming St | R18 | 08/31/2019 | | |
| 01409 E Lycoming St | R18 | 08/13/2019 | | |
| 01413 E Lycoming St | R18 | 08/20/2019 | | |
| 01447 E Lycoming St | R18 | 08/26/2019 | | |
| 04122 M St | R18 | 07/06/2019 | | |
| 04122 Markland St | R18 | 08/05/2019 | | |
| 04142 Markland St | R18 | 08/03/2019 | | |
| 04144 Markland St | R18 | 07/30/2019 | | |
| 04146 Markland St | R18 | 07/27/2019 | | |
| 04245 Ormond St | R18 | 06/08/2019 | | |
| 04215 Castor Ave | R18 | 04/27/2019 | | |
| 04219 Castor Ave | R18 | 05/02/2019 | | |

PHILADELPHIA WATER DEPARTMENT

# DEFECTIVE LATERAL SYSTEM
# NOD - Over 120 Days Report

## Status of Properties

| Address | Outfall Code | Complete Date | Admin Action | Comment |
|---|---|---|---|---|
| 04236 Neilson St | R18 | 06/01/2019 | | |
| 04249 Neilson St | R18 | 05/04/2019 | | |
| 04250 Neilson St | R18 | 04/25/2019 | | |
| 05922 Newtown Ave | T-080-02 | 04/26/2019 | | |
| 05930 Newtown Ave | T-080-02 | 04/22/2019 | | |
| 04232 O St | R18 | 03/28/2019 | | |
| 04254 O St | R18 | 04/06/2019 | | |
| 03235 Comly Pl | Q-110-09 | 10/06/2018 | | |
| 03454 W Penn St | S-052-04 | 10/24/2018 | | |
| 04456 Riverview La | S-052-03 | 09/26/2018 | | |
| 02612 Woodward St | P-100-04 | 09/12/2018 | | |
| 03326 W Queen La | S-052-04 | 07/12/2018 | | |
| 03469 W Queen La | S-052-04 | 07/17/2018 | | |
| 03433 Crawford St | S-052-04 | 05/26/2018 | | |
| 03530 Henry Ave | S-052-04 | 03/03/2018 | | |
| 03317 W Penn St | S-052-04 | 06/02/2018 | | |
| 03340 W Penn St | S-052-04 | 03/03/2018 | | |
| 03449 W Penn St | S-052-04 | 05/03/2018 | | |
| 03461 Sunnyside Ave | S-052-04 | 04/02/2018 | | |
| 03425 Conrad St | S-052-04 | 03/01/2018 | | |
| 01941 Kentwood St | Q-109-07 | 01/19/2018 | | |
| 03411 W Penn St | S-052-04 | 02/13/2018 | | |
| 03424 W Penn St | S-052-04 | 02/17/2018 | | |

**Table 4**
**Spills to Storm Sewers and/or Receiving Waters**
**July 1, 2024 to September 30, 2024**

| Date | Outfall | Address | Source Code | Material Involved | Completion Date | Remarks |
|---|---|---|---|---|---|---|
| 07/27/24 | M-005-04 | 8500 Essington Ave | 3009 | Sewage | 07/27/24 | Jet fuel spill, apporxicmate 5 gallons. No impact at outfall. |
| 08/02/24 | T-051-03 | 4332-36 Terrace St | 3008 | Sewage | 08/23/24 | A leaking HVAC is ponding in Verizon parking lot and flowing into Boone St. Apporxicmate 5 gpm. Follow up inspection on 8/23, no runoff. |
| 08/14/24 | W-068-05 | 400 Wellesley | 3009 | Sewage | 08/14/24 | Choked sewer caused sewage discharge into storm system. No active discharge at exam. Choked sewer relieved, sewer cleaned and vacuumed. |
| 08/19/24 | P-112-04 | 512 Welsh Rd | 3011 | Sewage | 08/21/24 | Blockage was casued by logs and greases. Apporxicmate 10 gal/min. Flusher relieved choked sewer & amp. Cleanup is done by Sewer Maintenance (WRT). |
| 08/28/24 | P-116-02 | 10788 Lockart Rd | 3011 | Sewage | 08/28/24 | Blockage was casued grease. Apporxicmate 2 gal/min. Flusher relieved choked sewer Cleanup is done by Sewer Maintenance (WRT). |
| 08/29/24 | Pumping Station SSO Schuylkill River | 4000 Neill Drive | 3011 | Sewage | 08/29/24 | The SSO went into creek west of the Neill Dr. Pumping Station and out to the Schuylkill River. The secondary breaker to the station was found tripped. Apporxicmate 25,141 gal. The breaker fault was cleared, closed and power was restored. |
| 08/29/24 | P-116-02 Pennypack Creek | At outfall | 3011 | Sewage | 08/29/24 | Choked sewer caused SSO at P-116-02. PWD cleaned up. |
| 09/17/24 | W-046-06 | 4021 Ridge Ave | 3009 | Sewage | 10/07/24 | Signs of previous runoff. New silt screens installed in all inlets on Scotts Lane. Previous silt runoff was swept and shoveled. |
| 09/19/24 | W-075-01 | 8327 Ridge Ave | 3009 | Sewage | 10/07/24 | Construction site is discharging water from a fire hydrant into manhole W075-01-S0230 some of the water is also entering the nearby inlet that goes to W-075-01. Apporxicmate 100 gpm. Issued NOV. |

**Source Codes:**

| | |
|---|---|
| **3008 - Spill to Ground Only** | **3010 - Spill to Sanitary Sewer** |
| **3009 - Spill to Storm Sewer** | **3011 - Spill to Receiving Stream** |

**STORM WATER MANAGEMENT PROGRAM**
**NPDES PERMIT NO. PA0054712**

# DEFECTIVE LATERAL CONNECTION STATUS REPORT
**(Covering Period from October 1, 2024 to December 31, 2024)**

Submitted to

**PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION**
**BUREAU OF WATER QUALITY MANAGEMENT**

By

**CITY OF PHILADELPHIA**
**PHILADELPHIA, PA**

February 21, 2025

**DLC Program Update**
**4th Quarter 2024**

# I. INTRODUCTION

This Defective Lateral Connection Status Report is submitted to the Pennsylvania Department of Environmental Protection (PADEP) as part of the reporting requirements of the City of Philadelphia NPDES Storm Water Management Permit No. PA 0054712. The report covers the three-month period beginning October 1, 2024 and ending December 31, 2024.

The body of this report will describe the recent activities of the City during the past quarter within the 1998 COA Priority Outfall areas and at other significant outfalls on the Stormwater Outfall Priority Score list. Additionally, goals for the next quarter will be listed.

Table 1 provides a summary of the program with respect to Complete tests, Cross-connections identified, and Abatements performed. Table 2 provides a listing of all laboratory analyses of samples taken at stormwater outfalls or within the stormwater system during the previous quarter. Table 3 provides a listing of properties with cross-connections outstanding greater than 120 days. Finally, Table 4 provides a listing of reported wastewater spills to the stormwater system or receiving streams.

# II. PAST QUARTER REVIEW

## A. Priority Outfalls

### 1. 7th & Cheltenham Outfall (T-088-01)

DLC program activities have performed 2,831 Complete tests in this sewershed, identifying 134 Cross-connections, all of which have been Abated.

Eight (8) sites intercepting flow are listed below.

1. CFD-01 Plymouth St. west of Pittsville St.
2. CFD-02 Pittsville St. south of Plymouth St.
3. CFD-03 Elston St. east of Bouvier St.
4. CFD-04 Ashley St. west of Bouvier St.
5. CFD-05 Cheltenham Ave. east of 19th St.
6. CFD-06 Verbena St. south of Cheltenham Ave.
7. CFD-07 Cheltenham Ave. east of 7th St.
8. CFD-08 7th St. south of Cheltenham Ave.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

| Flap Gate | Inspections | Blockages | Discharges |
|---|---|---|---|
| CFD-01 | 11 | 1 | 0 |
| CFD-02 | 10 | 0 | 0 |
| CFD-03 | 11 | 0 | 0 |
| CFD-04 | 11 | 0 | 0 |
| CFD-05 | 10 | 0 | 0 |
| CFD-06 | 10 | 0 | 0 |
| CFD-07 | 9 | 0 | 0 |
| CFD-08 | 8 | 0 | 0 |

No sample was taken this quarter.

**2. Monastery Ave. Outfall (W-060-01)**

DLC program activities have performed 637 Complete tests in this sewershed, identifying 17 Cross-connections, all of which have been Abated.

Two (2) sites intercepting flow are listed below.

1. MFD-01 Jannette St. west of Monastery Ave.
2. MFD-02 Green La. North of Lawnton St.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

| Flap Gate | Inspections | Blockages | Discharges |
|---|---|---|---|
| MFD-01 | 3 | 0 | 0 |
| MFD-02 | 3 | 0 | 0 |

The most recent fecal sample value was 161 MPN per 100 ml. at the outfall on October 29, 2024.

**3. Monoshone Creek Outfalls (W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04 and W-068-05)**

DLC program activities have performed 2,750 Complete tests in these sewershed areas, identifying 95 Cross-connections, all of which have been Abated. The majority of the efforts have been in the W-068-05 sewershed area which is by far the largest in terms of drainage area and properties served.

The most recent fecal sample value was >24,196 MPN per 100 ml. at W-068-05 outfall on November 7, 2024.

4. **Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)**

DLC program activities have performed 2,478 Complete tests in these sewershed areas, identifying 65 Cross-connections, all have been Abated. The majority of the efforts have been in the S-059-04 sewershed area.

The most recent fecal sample values at each outfall were:

- 1,043 MPN per 100 ml. at the S-058-01 outfall on October 25, 2024.
- >24,196MPN per 100 ml. at the S-059-01 outfall on October 25, 2024.
- 24,196 MPN per 100 ml. at the S-059-02 outfall on October 25, 2024.
- 241,960 MPN per 100 ml. at the S-059-03 outfall on October 28, 2024.
- 43,520 MPN per 100 ml. at the S-059-04 outfall on October 28, 2024.
- No flow at the S-059-05 outfall on October 28, 2024.
- 410 MPN per 100 ml. at the S-059-09 outfall on October 28, 2024.

## B. Other Outfalls

### 1. Sandyford Run Outfall (P-090-02)

DLC program activities have performed 5,879 Complete tests in this sewershed, identifying 110 Cross-connections, 94 of which have been Abated.

One (1) site intercepting flow is listed below.

1. PFD-01 Sandyford Run (Brous and Lexington Aves.)

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

| Flap Gate | Inspections | Blockages | Discharges |
|---|---|---|---|
| PFD-01 | 12 | 1 | 0 |

The most recent fecal sample value was 56 MPN per 100 ml. at the P-090-02 outfall on October 9,2024.

### 2. Franklin and Hasbrook Outfall (T-089-04)

DLC program activities have performed 1,025 Complete tests in this sewershed, identifying 46 Cross-connections, 44 of which have been Abated.

One (1) site intercepting flow is listed below.

1. CFD-01 Franklin and Hasbrook Aves.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

| Flap Gate | Inspections | Blockages | Discharges |
|---|---|---|---|
| CFD-01 | 14 | 2 | 0 |

No sample was taken this quarter.

**3.** A current summary of additional outfalls from the Stormwater Outfall Priority Score list that the City has performed complete testing or abatements this quarter is as follows.

| Outfall # | Completed Test | Cross Connection | Abatement |
|---|---|---|---|
| P-083-03 | 4 | 1 | 3 |
| P-090-02 | 81 | 10 | 2 |
| P-091-07 | 0 | 0 | 1 |
| P-091-11 | 2 | 0 | 0 |
| P-099-03 | 8 | 0 | 3 |
| P-099-05 | 1 | 0 | 0 |
| P-100-08 | 1 | 0 | 0 |
| P-100-16 | （1） | 0 | 0 |
| P-101-02 | 14 | 0 | 0 |
| Q-101-03 | 1 | 1 | 0 |
| Q-107-02 | （43） | 1 | 0 |
| Q-109-07 | 0 | 0 | 1 |
| Q-115-09 | 16 | 0 | 0 |
| Q-121-04 | 0 | 0 | 1 |
| R18 | 0 | 0 | 8 |
| S-052-04 | 0 | 0 | 3 |
| T-080-02 | (2) | 0 | 1 |
| T-080-03 | (17) | 0 | 0 |
| W-076-13 | (1) | 0 | 0 |

## III. NEXT QUARTER GOALS

### A. Priority Outfalls

### 1. 7th & Cheltenham Outfall (T-088-01)

Goals for the Quarter

- Continue to monitor the operation of the diversion apparatuses.
- Continue sampling at the outfall with dry-weather flow.

**2. Monastery Ave. Outfall (W-060-01)**

Goals for the Quarter

- Continue to monitor the operation of the diversion apparatuses.
- Continue sampling at the outfall with dry-weather flow.

**3. Monoshone Creek Outfalls (W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04 and W-068-05)**

Goals for the Quarter

- Continue sampling at outfall W-068-05 with dry-weather flow.

**4. Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)**

Goals for the Quarter

- Continue sampling at the outfalls with dry-weather flow.

**B. Other Outfalls**

**1. Sandyford Run Outfall (P-090-02)**

Goals for the Quarter

- Continue to monitor the operation of the diversion apparatus.

**2. Franklin and Hasbrook Outfall (T-089-04)**

Goals for the Quarter

- Continue to monitor the operation of the diversion apparatus.

**3.** Continue to perform abatements of identified cross-connections within the following outfalls.

- P-083-03
- P-090-02
- P-091-06
- P-099-03
- P-099-05
- P-104-07
- Q-101-03
- Q-107-02
- Q-110-09
- Q-121-04
- R18
- S-046-06
- S-052-03

- S-052-04
- T-080-02
- T-080-03
- T-089-01
- T-089-04
- T-098-01
- W-067-01
- W-076-13
- W-086-01
- W-086-02
- W-086-03
- W-086-05

**4.** Continue to perform property testing within the following outfalls.

- P-083-03
- P-090-02
- P-091-10
- P-099-03
- P-099-05
- Q-101-03
- Q-107-02
- Q-115-09

**Table 1**
**DLC Program Summary**
**October 1, 2024 to December 31, 2024**

Complete Tests:

- 65,370 Complete tests have been performed under the DLC program
- **64 Complete tests were performed this past quarter**
- 4 Complete tests were performed in outfall P-083-03
- 81 Complete tests were performed in outfall P-090-02
- 2 Complete tests were performed in outfall P-091-11
- 8 Complete tests were performed in outfall P-099-03
- 1 Complete test was performed in outfall P-099-05
- 1 Complete test was performed in outfall P-100-08
- (1) Complete test was performed in outfall P-100-16
- 14 Complete tests were performed in outfall P-101-02
- 1 Complete test was performed in outfall Q-101-03
- (43) Complete tests were performed in outfall Q-107-02
- 16 Complete tests were performed in outfall Q-115-09
- (2) Complete tests were performed in outfall T-080-02
- (17) Complete tests were performed in outfall T-080-03
- (1) Complete test was performed in outfall W-076-13

Cross-Connections Found:

- 1,926 Cross-connections have been identified under the DLC program
- **13 Cross-connections were identified this past quarter**
- 1 Cross-connection was identified in outfall P-083-03
- 10 Cross-connections were identified in outfall P-090-02
- 1 Cross-connection was identified in outfall Q-101-03
- 1 Cross-connection was identified in outfall Q-107-02

Abatements:

- 1,814 Abatements have been performed under the DLC program
- **24 Abatements were performed this past quarter**
- 3 Abatements were performed in outfall P-083-03
- 2 Abatements were performed in outfall P-090-02
- 1 Abatement was performed in outfall P-091-07
- 3 Abatements were performed in outfall P-099-03
- 1 Abatement was performed in outfall Q-109-07
- 1 Abatement was performed in outfall Q-121-04
- 8 Abatements were performed in outfall R-18
- 3 Abatements were performed in outfall S-052-04
- 1 Abatement was performed in outfall S-059-02
- 1 Abatement was performed in outfall T-080-02

Outfall/Manhole Screening and Sampling:

- 9 outfall inspections were made as part of the **Priority Outfall Inspection Program** this past quarter.
- 8 outfall samples were taken due to observed dry-weather flow during the above inspections.

- 26 outfall inspections were made as part of the **Permit Inspection Program** this past quarter.
- 9 outfall samples were taken due to observed dry-weather flow during the above inspections.

**Table 2**
**Lab Analysis of Water at Outfalls and/or in the Storm Sewers**
**October 1, 2024 to December 31, 2024**

| Outfall | Date | Time | Location | Sewer Size (noted) | Flow (gph) | Fecal Count (MPN per 100 ml) | Fluoride (mg/l) | Comments |
|---|---|---|---|---|---|---|---|---|
| **A. Priority Outfalls** | | | | | | | | |
| S-058-01 | 10/25/2024 | 11:05 | SW of Umbria St. & Domino Lane. | 54" | Submerged | 1043.00 | <0.20 | Drop pool covered in fallen leaves |
| S-059-01 | 10/25/2024 | 11:26 | NE of Towpath & Parker Ave. | 60" | 12 | >24196.00 | <0.20 | Drop pool cloudy green/blue. Many fish at mouth of outfall |
| S-059-02 | 10/25/2024 | 11:45 | NE of Towpath & Fountain St. | 42" | 5 | 24196.00 | 0.59 | Fish observed in drop pool |
| S-059-03 | 10/28/2024 | 11:33 | NE of Towpath & Wright St. | 42" | 60 | 241960.00 | <0.20 | Significant sewage odor |
| S-059-04 | 10/28/2024 | 11:41 | Inter. of Towpath & Leverington Ave. Bridge | 51" | Submerged | 43520.00 | 0.26 | Flow indicated by sound of flowing water. Outfall submerged |
| S-059-05 | 10/28/2024 | 11:41 | Inter. of Towpath & Leverington Ave. Bridge | 0" | NF | NS | NS | No flow. |
| S-059-09 | 10/28/2024 | 12:06 | Intersection of Main St. & Green Lane | 36" | 3.00 | 410.00 | 0.67 | Consistent flow |
| W-060-01 | 10/29/2024 | 10:49 | NE. of Monatery Lane & Janette St. | 0" | 0.02 | 161.00 | <0.20 | Water percolating from base of outfall/wall structure. Sample collected from drop pool. |
| W-068-05 | 11/07/2024 | 10:30 | NW Lincoln Drive & Morris St. | 90" | NF | >24196.00 | 0.30 | Sample taken in stream ~ 10' downstream of outfall. |
| **B. Permit Inspection Program** | | | | | | | | |
| P-090-02 | 10/09/2024 | 10:36 | S. of Brous Ave. & Roosevelt Blvd. | 156" | Submerged | 56.30 | 0.00 | flow from submerged outfall |
| P-100-17 | 10/24/2024 | 11:00 | NW of Willits & Cloverly Rds. | 27" | NF | NS | NS | Opened manhole, no flow or debris observed |
| P-100-18 | 10/24/2024 | 11:40 | NW of Willits & Cloverly Rds. | 15" | NF | NS | NS | Dry outfall, lots of debris in channel leading to water body |
| P-100-19 | 10/24/2024 | 11:10 | NW of Willits & Cloverly Rds. | 24" | NF | NS | NS | Opened outfall manhole, dry, no flow or debris observed |
| P-103-01 | 10/25/2024 | 09:20 | N. of Pine Rd. & Shady Lane | 42" | NF | NS | NS | Outfall was observed from the culvert. No flow; Some staining noted. |
| P-103-02 | 10/25/2024 | 09:25 | S. of Pine Rd. & Shady Lane | 18" | NF | NS | NS | Outfall was observed from the culvert. No flow; some staining noted. |
| P-103-03 | 10/25/2024 | 09:45 | N. of Hoffnagle St. & Rockwell Ave. | 42" | NF | NS | NS | No access to outfall. No flow observed in upstream manhole. |
| P-103-03 | 12/04/2024 | 12:40 | N. of Hoffnagle St. & Rockwell Ave. | 42" | 0.15 | 7701.00 | 0.00 | Slight sudsing and slight scum. |
| P-104-01 | 10/22/2024 | 09:45 | SW of Pine Rd. & Longmeadow Lane. | 21" | NF | 216.00 | <0.20 | No Flow. |
| P-104-01 | 10/25/2024 | 09:00 | SW of Pine Rd. & Longmeadow Lane. | 21" | NF | NS | NS | No flow observed from neither the outfall nor the storm drains in the vicinity. |
| P-113-05 | 12/02/2024 | 09:10 | NW of Red Lion Rd. & Bustleton Ave. | 18" | NF | NS | NS | Outfall partially submerged but no evidence of flow. |
| P-113-07 | 12/03/2024 | 09:15 | NW of Red Lion Rd. & Bustleton Ave. | 60" | 1.56 | 3441.00 | 0.26 | Suspected toilet paper residue at mouth of outfall. CL2 reading 0.1 mg/L |
| P-113-13 | 12/02/2024 | 09:20 | NW of Red Lion & Bustleton Ave. | 21" | NF | NS | NS | Outfall is completely blocked with hardened concrete. This was not the case when I was last at this outfall location on 4/30/2024 at which time there was flow from outfall which I was unable to sample. |
| Q-120-08 | 11/13/2024 | 11:52 | NW Trevose Rd. & Edison Ave. - 641 Edison Ave. | 36" | Submerged | 5172.00 | 0.58 | Outfall submerged. Slight suspended solids. |
| Q-120-09 | 11/13/2024 | 11:56 | NW of Trevose & Edison Ave. | 27" | Submerged | >24196.00 | 0.44 | Outfall submerged. Grey color. |
| S-024-01 | 12/04/2024 | 11:00 | SE of University Ave. & 34th St. | 040" | NF | NS | NS | Outfall is submerged. Fish observed. |
| S-051-08 | 12/30/2024 | 11:52 | Main & Shurs | 9' x 7' | NR | 6760.00 | 0.00 | Observed from manhole S-051-08-0010 |
| S-052-05 | 12/30/2024 | 11:24 | S. of Sumac St. & Rochelle Ave. | 42" | NR | 68670.00 | 0.00 | Observed from outfall S-052-05-0015 |
| T-055-01 | 10/15/2024 | 12:00 | W. of Deal St. & Kensington Ave. | 24" | NF | NS | NS | Outfall unreachable. Storm sewer manhole T055-01-0012 @ Deal/Romaine completely dry. |
| T-056-01 | 11/15/2024 | 12:15 | SW of Ashland St. & Adams Ave. | 36" | NF | NS | NS | Outfall unreachable. Last observable manhole is T056-01-0020 which was dry. |
| T-056-07 | 11/18/2024 | 12:10 | SE of Richmond & Roxborough Sts. | 36" | NF | NS | NS | Outfall completely dry. |
| T-056-08 | 11/18/2024 | 12:05 | SW of Richmond & Roxborough Sts. | 36" | NF | NS | NS | Outfall completely dry. It was partially collapsed and will need maintenance eventually. |
| T-063-05 | 10/15/2024 | 11:30 | E. of Cayuga & Potter Sts. | 30" | NF | NS | NS | Outfall damp but no measurable flow |
| T-063-06 | 11/04/2024 | 09:40 | E. of Bristol & Potter Sts. | 27" | 4 | 465.00 | 0.67 | 2.1 mg/L CL2 reading. |
| T-080-01 | 11/07/2024 | 08:45 | SE of Tookany Creek Prwy & Levick St. | 42" | NF | NS | NS | Storm drain manholes T080-01-0186 & T080-01-0190 both had no flow. |
| T-096-01 | 11/19/2024 | 11:00 | E. of Cheltenham & Gowen Aves. | 42" | NF | NS | NS | Outfall not observable. Manholes T097-01-0250 & T096-01-0015 were dry. |

# DEFECTIVE LATERAL SYSTEM
# NOD - Over 120 Days Report

| Status of Properties | | | | |
|---|---|---|---|---|
| **Address** | **Outfall Code** | **Complete Date** | **Admin Action** | **Comment** |
| 01819 Fox Chase Rd | P-099-03 | 06/22/2024 | | |
| 05828 Weymouth St | T-080-03 | 06/29/2024 | | |
| 01920 Afton St | P-090-02 | 04/13/2024 | | |
| 02038 Oakmont St | P-090-02 | 05/18/2024 | | |
| 02119 Oakmont St | P-090-02 | 05/28/2024 | | |
| 02222 Strahle St | P-099-05 | 03/30/2024 | | |
| 02225 Strahle St | P-099-05 | 03/23/2024 | | |
| 02226 Strahle St | P-099-05 | 03/14/2024 | | |
| 02227 Strahle St | P-099-05 | 04/06/2024 | | |
| 01902 Afton St | P-090-02 | 02/27/2024 | | |
| 02115 Afton St | P-090-02 | 01/11/2024 | | |
| 02124 Afton St | P-090-02 | 02/23/2024 | | |
| 07454 Devon St | W-086-03 | 11/17/2023 | | |
| 01704 Faunce St | P-090-02 | 11/17/2023 | | |
| 01713 Faunce St | P-090-02 | 11/14/2023 | | |
| 07714 Matthias St | W-076-13 | 10/04/2023 | | |
| 05801 Newtown Ave | T-080-03 | 09/05/2023 | | |
| 15040 Poquessing Crk La | Q-121-04 | 11/27/2023 | | |
| 15044 Poquessing Crk La | Q-121-04 | 11/11/2023 | | |
| 15059 Poquessing Crk La | Q-121-04 | 11/27/2023 | | |
| 00146 Roumfort Rd | W-086-03 | 10/07/2023 | | |
| 00150 Roumfort Rd | W-086-03 | 10/10/2023 | | |
| 00156 Roumfort Rd | W-086-03 | 10/12/2023 | | |
| 05836 Weymouth St | T-080-03 | 11/18/2023 | | |
| 00400 Woodbrook La | W-086-05 | 10/24/2023 | | |
| 00131 E Mermaid La | W-086-01 | 06/30/2023 | | |
| 05805 Newtown Ave | T-080-03 | 07/08/2023 | | |
| 05822 Newtown Ave | T-080-03 | 06/24/2023 | | |
| 05830 Newtown Ave | T-080-03 | 08/05/2023 | | |
| 05839 Newtown Ave | T-080-03 | 07/05/2023 | | |
| 05850 Newtown Ave | T-080-03 | 08/04/2023 | | |
| 07312 Palmetto St | T-089-04 | 06/03/2023 | | |

PHILADELPHIA WATER DEPARTMENT

# DEFECTIVE LATERAL SYSTEM
# NOD - Over 120 Days Report

**Status of Properties**

| Address | Outfall Code | Complete Date | Admin Action | Comment |
|---|---|---|---|---|
| 05833 Reach St | T-080-03 | 08/19/2023 | | |
| 05830 Weymouth St | T-080-03 | 08/02/2023 | | |
| 05832 Weymouth St | T-080-03 | 07/29/2023 | | |
| 05834 Weymouth St | T-080-03 | 08/09/2023 | | |
| 05835 Weymouth St | T-080-03 | 08/03/2023 | | |
| 05839 Weymouth St | T-080-03 | 07/31/2023 | | |
| 05843 Weymouth St | T-080-03 | 07/29/2023 | | |
| 05846 Weymouth St | T-080-03 | 07/29/2023 | | |
| 05848 Weymouth St | T-080-03 | 08/03/2023 | | |
| 07312 Lawndale Ave | T-089-04 | 03/27/2023 | | |
| 00510 Murdoch Rd | W-086-05 | 05/27/2023 | | |
| 00101 E Mermaid La | W-086-01 | 02/13/2023 | | |
| 07472 Oxford Ave | T-089-04 | 02/23/2023 | | |
| 00715 Arnold St | P-104-07 | 10/25/2022 | | |
| 07915 Burholme Ave | T-098-01 | 10/15/2022 | | |
| 01128 Brighton St | P-090-02 | 06/25/2022 | | |
| 01816 Benson St | P-099-03 | 05/14/2022 | | |
| 01742 Bergen St | P-099-03 | 05/07/2022 | | |
| 01826 Benson St | P-099-03 | 01/15/2022 | | |
| 01829 Kendrick St | P-099-03 | 09/25/2021 | | |
| 00207 Passmore St | T-089-01 | 09/11/2021 | | |
| 07627 Germantown Ave | W-086-02 | 07/21/2021 | | |
| 01410 E Hunting Park Ave | R18 | 07/30/2021 | | |
| 02216 Emerson St | P-091-06 | 03/22/2021 | | |
| 03602 Haywood St | S-052-04 | 03/27/2021 | | |
| 03643 Haywood St | S-052-04 | 03/29/2021 | | |
| 08118 Lister St | P-091-06 | 03/03/2021 | | |
| 04150 Markland St | R18 | 06/02/2021 | | |
| 03617 Midvale Ave | S-052-04 | 06/02/2021 | | |
| 04118 Castor Ave | R18 | 12/05/2020 | | |
| 03460 Division St | S-052-04 | 01/23/2021 | | |
| 02128 Emerson St | P-091-06 | 10/24/2020 | | |
| 02214 Hoffnagle St | P-091-06 | 10/26/2020 | | |

PHILADELPHIA WATER DEPARTMENT

# DEFECTIVE LATERAL SYSTEM
# NOD - Over 120 Days Report

## Status of Properties

| Address | Outfall Code | Complete Date | Admin Action | Comment |
|---|---|---|---|---|
| 02320 Benson St | P-091-06 | 01/06/2020 | | |
| 01441 E Hunting Park Ave | R18 | 02/29/2020 | | |
| 04123 Markland St | R18 | 02/06/2020 | | |
| 02623 W Allegheny Ave | S-046-06 | 10/05/2019 | | |
| 04014 Castor Ave | R18 | 10/08/2019 | | |
| 04023 Castor Ave | R18 | 09/04/2019 | | |
| 04024 Castor Ave | R18 | 09/17/2019 | | |
| 04030 Castor Ave | R18 | 10/12/2019 | | |
| 08820 Cottage St | P-083-03 | 11/06/2019 | | |
| 01431 E Lycoming St | R18 | 11/02/2019 | | |
| 04143 M St | R18 | 09/21/2019 | | |
| 04215 M St | R18 | 09/24/2019 | | |
| 04259 Neilson St | R18 | 12/02/2019 | | |
| 04309 Glendale St | R18 | 06/15/2019 | | |
| 01404 E Lycoming St | R18 | 08/31/2019 | | |
| 01409 E Lycoming St | R18 | 08/13/2019 | | |
| 01413 E Lycoming St | R18 | 08/20/2019 | | |
| 01447 E Lycoming St | R18 | 08/26/2019 | | |
| 04122 Markland St | R18 | 08/05/2019 | | |
| 04142 Markland St | R18 | 08/03/2019 | | |
| 04144 Markland St | R18 | 07/30/2019 | | |
| 04146 Markland St | R18 | 07/27/2019 | | |
| 04245 Ormond St | R18 | 06/08/2019 | | |
| 04215 Castor Ave | R18 | 04/27/2019 | | |
| 04219 Castor Ave | R18 | 05/02/2019 | | |
| 04249 Neilson St | R18 | 05/04/2019 | | |
| 04250 Neilson St | R18 | 04/25/2019 | | |
| 05930 Newtown Ave | T-080-02 | 04/22/2019 | | |
| 04232 O St | R18 | 03/28/2019 | | |
| 03235 Comly Pl | Q-110-09 | 10/06/2018 | | |
| 03454 W Penn St | S-052-04 | 10/24/2018 | | |
| 04456 Riverview La | S-052-03 | 09/26/2018 | | |
| 03326 W Queen La | S-052-04 | 07/12/2018 | | |

# DEFECTIVE LATERAL SYSTEM
# NOD - Over 120 Days Report

| Status of Properties | | | | |
|---|---|---|---|---|
| **Address** | **Outfall Code** | **Complete Date** | **Admin Action** | **Comment** |
| 03469 W Queen La | S-052-04 | 07/17/2018 | | |
| 03530 Henry Ave | S-052-04 | 03/03/2018 | | |
| 03317 W Penn St | S-052-04 | 06/02/2018 | | |
| 03340 W Penn St | S-052-04 | 03/03/2018 | | |
| 03461 Sunnyside Ave | S-052-04 | 04/02/2018 | | |
| 03425 Conrad St | S-052-04 | 03/01/2018 | | |
| 03411 W Penn St | S-052-04 | 02/13/2018 | | |
| 03424 W Penn St | S-052-04 | 02/17/2018 | | |

**Table 4**
**Spills to Storm Sewers and/or Receiving Waters**
**October 1, 2024 to December 31, 2024**

| Date | Outfall | Address | Source Code | Material Involved | Completion Date | Remarks |
|---|---|---|---|---|---|---|
| 10/15/24 | P-105-01 | 9629 Bustleton Ave | 3009 | Sewage | 10/16/24 | Apartment building sanitary lateral fed into storm sewer, 2 gal/min. Sewer maintenace (WRT) on standby. |
| 10/28/24 | P-101-02 | 9343 Annapolis Rd | 3009 & 3010 | Sewage | 10/28/24 | Strong petrol odor detected in both sanitary and storm sewer. Storm sewer was dry. Home owner also reported an odor coming from shower drain. Odors dissipated after 30minutes. |
| 11/19/24 | Q-107-02 | Discharge at outfall | 3011 | Sewage | 01/16/25 | Sewage discharge from Q-107-02. Cross connection and fresh water leak found. No followup required. |
| 12/11/24 | P-105-06 | 9200 Bustleton Ave | 3011 | Sewage | 12/12/24 | Blockage was caused by debris & grease build-up. Flusher relieved choked sewer. Cleanup was done by sewer maintenance (WRT) with declor tab. |

**Source Codes:**

| | |
|---|---|
| **3008 - Spill to Ground Only** | **3010 - Spill to Sanitary Sewer** |
| **3009 - Spill to Storm Sewer** | **3011 - Spill to Receiving Stream** |

# Appendix O – MS4 Outfalls

# Defective Lateral Program - Priority Outfalls

## *7th & Cheltenham Avenue Outfall (T-088-01)*

As of June 30, 2025, Defective Connection Group (DCG) program activities have performed 2,926 complete tests in this sewershed, identifying 175 cross-connections, all of which have been abated.

The locations of dry weather diversion devices, and the number of inspections, blockages, and discharges found by the Flow Control unit during FY25 are listed below.

**Table 1: 7th & Cheltenham Ave – Diversion Devices - FY25 Summary**

| Location | ID # | Inspections | Blockages | Discharges |
|---|---|---|---|---|
| Plymouth St. west of Pittsville St. | CFD-01 | 38 | 2 | 0 |
| Pittsville St. south of Plymouth St. | CFD-02 | 37 | 3 | 0 |
| Elston St. east of Bouvier St. | CFD-03 | 39 | 1 | 0 |
| Ashley St. west of Bouvier St. | CFD-04 | 38 | 0 | 0 |
| Cheltenham Ave. east of 19th St. | CFD-05 | 44 | 2 | 0 |
| Verbena St. south of Cheltenham Ave. | CFD-06 | 44 | 0 | 0 |
| Cheltenham Ave. east of 7th St. | CFD-07 | 53 | 5 | 0 |
| 7th St. south of Cheltenham Ave. | CFD-08 | 51 | 1 | 0 |

Inspections and fecal coliform sampling at this outfall continue quarterly. Results for the outfall samples during FY25 are listed below.

**Table 2: 7th & Cheltenham Ave - Fecal Coliform Results – FY25 Summary**

| Date | Fecal Count (MPN per 100 ml) |
|---|---|
| 09/03/2024 | 12,033 |
| 01/16/2025 | 24,196 |
| 06/12/2025 | 3,873 |

### *Monastery Avenue Outfall (W-060-01)*

As of June 30, 2025, DCG program activities have performed 641 complete tests in this sewershed, identifying 18 cross-connections, all of which have been abated.

The locations of dry weather diversion devices and the number of inspections, blockages, and discharges found by the Flow Control unit during FY25 are listed below.

**Table 3: Monastery Ave - Diversion Devices - FY25 Summary**

| Location | ID# | Inspections | Blockages | Discharges |
|---|---|---|---|---|
| Jannette St. west of Monastery Ave. | MFD-01 | 16 | 0 | 0 |
| Green La. North of Lawnton St. | MFD-02 | 16 | 0 | 0 |

Inspections and fecal coliform sampling at this outfall continue quarterly. Results for the outfall samples during FY25 are listed below.

**Table 4: Monastery Ave - Fecal Coliform Results – FY25 Summary**

| Date | Fecal Count (MPN per 100 ml) |
|---|---|
| 09/09/2024 | >24,196 |
| 10/29/2024 | 161 |
| 02/24/2025 | 73 |
| 06/24/2025 | 3,076 |

### *Monoshone Creek Outfalls (W-068-05)*

Additional areas of focus: W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04

As of June 30, 2025, DCG program activities have performed 2,862 complete tests in these sewershed areas, identifying 99 cross-connections, all of which have been abated. Most of the efforts have been in the W-068-05 sewershed area which is the largest in terms of drainage area and properties served.

Inspections and fecal coliform sampling at the W-068-05 outfall continue quarterly. Results for the outfall samples during FY25 are listed below.

**Table 5: Monoshone Creek (W-068-05 Outfall) - Fecal Coliform Results – FY25 Summary**

| Date | Fecal Count (MPN per 100 ml) |
|---|---|
| 08/14/2024 | 12,033 |
| 11/07/2024 | >24,196 |
| 02/24/2025 | 12,997 |
| 06/24/2025 | 2,909 |

*Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)*

As of June 30, 2025, DCG program activities have performed 2,551complete tests in these sewershed areas, identifying 65 cross-connections, all of which have been abated. Most of the efforts have been in the S-059-04 sewershed area.

Inspections and fecal coliform sampling at the following outfalls continue quarterly. Results for the outfall samples during FY25 are listed below.

**Table 6: Manayunk Canal - Fecal Coliform Results – FY25 Summary**

| Outfall | Date | Fecal Count (MPN per 100 mL) |
|---|---|---|
| S-058-01 | 9/4/2024 | 750 |
| | 10/25/2024 | 1,043 |
| | 3/19/2025 | 41 |
| | 6/13/2025 | 2,419.60 |
| S-059-01 | 9/4/2024 | 125,900 |
| | 10/25/2024 | >24,196 |
| | 3/19/2025 | >24,196 |
| | 6/13/2025 | 24,890 |
| S-059-02 | 9/4/2024 | 72,700 |
| | 10/25/2024 | 24,196 |
| | 3/19/2025 | 17,329 |
| | 6/13/2025 | >241,960 |

| | | |
|---|---|---|
| S-059-03 | 9/5/2024 | >241,960 |
| | 10/28/2024 | 241,960 |
| | 6/25/2025 | 770,100 |
| S-059-04 | 9/5/2024 | 10,810 |
| | 10/28/2024 | 43,520 |
| | 3/27/2025 | 9,590 |
| | 6/25/2025 | 1,710 |
| S-059-05 | 9/5/2024 | *NF |
| | 10/28/2024 | *NF |
| S-059-09 | 9/5/2024 | 39,680 |
| | 10/28/2024 | 410 |
| | 3/27/2025 | <100 |
| | 6/25/2025 | 1,100 |

Note: NF* indicates that no flow was observed

## Defective Lateral Program - Other Important Outfalls

### *Sandyford Run Outfall (P-090-02)*

As of June 30, 2025, DCG program activities have performed 6,179 complete tests in this sewershed, identifying 121 cross-connections, 114 of which have been abated. The location of the dry weather diversion device and the number of inspections, blockages, and discharges found by the Flow Control unit during FY25 are listed below.

**Table 7: Sandyford Run - Diversion Device - FY25 Summary**

| Location | ID# | Inspections | Blockages | Discharges |
|---|---|---|---|---|
| Brous and Lexington Aves. | PFD-01 | 61 | 4 | 0 |

**Table 8: Sandyford Run – Diversion Device - Fecal Coliform Results – FY25 Summary**

| Date | Fecal Count (MPN per 100 ml) |
|---|---|
| 08/29/2024 | 1,664 |
| 10/09/2024 | 56 |
| 01/23/2025 | 1,850 |
| 06/24/2025 | 1,401 |

### *Franklin and Hasbrook Outfall (T-089-04)*

As of June 30, 2025, DCG program activities have performed 1,724 complete tests in this sewershed, identifying 50 cross-connections, all of which have been abated. The location of the dry weather diversion device and the number of inspections, blockages, and discharges found by the Flow Control unit during FY25 are listed below.

**Table 9: Franklin and Hasbrook - Diversion Device - FY25 Summary**

| Location | ID# | Inspections | Blockages | Discharges |
|---|---|---|---|---|
| Franklin and Hasbrook | CFD-01 | 59 | 7 | 1 |

The outfall was inspected throughout the year but was found to be clean and dry during all quarterly visits.

# Appendix P – Ecological Restoration Projects

| Project Name | Stream Length (ft)\| Drainage Area (acres) | Description |
|---|---|---|
| *Status:* **Complete** | | |
| Saylor Grove | 150 acres | • First stormwater wetland constructed by PWD in the fall of 2005. The one-acre wetland treats ~70 million gallons of urban stormwater a year before it reaches the Monoshone Creek.<br>• This project is now monitored regularly through a formal inspection protocol. Monitoring efforts at this site are now included in the Wissahickon TMDL monitoring efforts<br>• Maintenance dredging occurred in the Fall 2020. |
| Cathedral Run Stormwater Wetland | 90 acres | • Cathedral Run Wetland is a stormwater management facility that is about an acre in area and treats ~90 acres of drainage area.<br>• The wetland removes sediment and nutrients from storm runoff while helping reduce the peak volume reaching Cathedral Run and Wissahickon Creek.<br>• Maintenance dredging and replanting was conducted in Fall 2021. |
| Marshall Road Stream Restoration | 900 feet | • Goal was to stabilize an exposed section of the Cobbs Creek Interceptor.<br>• Through funding from a Growing Greener Grant in 2003, PWD embarked on full scale stream restoration design to stabilize the 900 ft segment of the Creek.<br>• Construction was completed in 2006.<br>• PWD has maintained an active role in seasonal and annual monitoring of the restoration site and continually evaluates the long-term success of the project. |
| Whitaker Ave Stream Restoration | 2200 feet | • 2,200-foot stretch of the Tacony Creek main stem that begins 500 feet downstream of the Whitaker Avenue bridge and ends about 800 feet upstream of the Fishers Lane bridge.<br>• PWD, in partnership with the USACE – Philadelphia District, bid and constructed this project which was completed in November 2010.<br>• PWD began its monitoring program at this site in spring 2011. |
| Indian Creek CSO Storage and Daylighting | 2100 feet | • Located within the Cobbs Creek Watershed at the confluence of the East and West branches of Indian Creek in Morris Park, Philadelphia, Pennsylvania.<br>• Included the construction of a new stream channel by removing approximately 700 ft. of the West Branch Indian Creek from a brick culvert. Also included bank stabilization of the existing creek and the associated forested riparian buffer around the new channel. The new stream channel reconnects the West Branch to the East Branch of Indian Creek. |

| Project Name | Stream Length (ft)\| Drainage Area (acres) | Description |
|---|---|---|
| | | • The existing brick culvert was converted into temporary storage for Combined Sewer Overflow (CSO) during wet weather events reducing the total CSO discharges into the Cobbs Creek Watershed. Estimated removal of approximately 2 million gallons of combined sewage discharge to Indian Creek annually. |
| Wises Mill Stream Restoration | 1000 feet | • 1st/2nd order tributary to the Wissahickon Creek<br>• Stream was fully assessed and determined to be a significant source of sediment to Wissahickon Creek through bank erosion and sediment transport processes.<br>• The project is currently in the project monitoring phase. |
| Bells Mill Stream Restoration | 5100 feet | • This 2nd order tributary to the Wissahickon Creek arises from an outfall near the intersection of Lykens Lane and Bells Mill Roads. It then travels through a wooded area parallel to Bells Mill Road for approximately 5,100 ft before reaching the confluence with the Wissahickon Creek.<br>• Energy dissipating structures such as rock vanes and channel-spanning boulder step structures were installed.<br>• Follow up maintenance activities were performed in 2014. |
| Gorgas Run Stream Restoration | 2100 feet | • Gorgas Run is a steep headwater tributary to the Wissahickon Creek with a drainage area of 499 acres.<br>• High peak stormwater flows have severely degraded Gorgas Run<br>• PWD used NSCD principles to restore the 1,800 feet of stream channel that encompasses Gorgas Run and another 300 feet of tributary to Gorgas Run.<br>• Rehabilitation of the stream corridor included in-stream stabilization structures, repairs and protection for PWD and Fairmount Park infrastructure, stabilization of stormwater gullies below Henry Avenue and park trail enhancements. |
| Wissahickon Creek Ridge Ave 2nd Dam | 200 feet | • Bank restoration around exposed manhole at the dam on Wissahickon Creek upstream of the Ridge Ave culvert.<br>• The project restored approximately 200 feet of stream bank. |
| Paul's Run Stream Restoration | 500 feet | • Approximately 350 feet of stream restoration along Paul's Run, tributary to Pennypack Creek to protect an exposed sanitary sewer and stabilize the stream channel. |
| Wises Mill Wetland | 92 acres | • System of 3 stormwater wetlands with total surface area of approximately 2 acres<br>• Manages stormwater from a 92-acre drainage area.<br>• PWD monitoring sediment accumulation and vegetation within the wetlands.<br>• PWD has conducted site maintenance recently including construction of an armored channel between the wetlands to fix gully erosion, repairs to a berm that separates the wetland from the Wises Mill Run stream channel, and installation of a larger outlet inflow pipe for proper drainage of the wetlands. |
| Carpenters Woods | 600 feet | • Project addressed significant gully erosion downstream of 3 outfalls. |

| Project Name | Stream Length (ft)\| Drainage Area (acres) | Description |
|---|---|---|
| | | • Included construction of channel bed armoring, bank revetments, and vegetation to stabilize the channels and enhance the forest off Mount Pleasant Rd in northwest Philadelphia. |
| Cathedral Run Stream Restoration | 300 feet | • The culvert below Forbidden Drive trail had become clogged with debris and the banks upstream of the structure had eroded and bed downgraded.<br>• The project constructed bank and bed stabilization structures in the area just upstream of the culvert |
| Rex Ave | 300 feet | • Project included stabilization of a portion of the stream channel parallel to Rex Avenue. |
| Cresheim Creek St. Martins | 450 feet | • Construction of 3 grade control structures (cross-vanes) and bank revetments on both sides of the stream channel below the pedestrian bridge off St. Martins Road.<br>• Stream work was conducted in conjunction with a bridge and sewer replacement. |
| Hartwell Lane | 300 feet | • Restoration of the stream channel upstream of a culvert structure that conveys PWD's Wissahickon High Level Interceptor.<br>• Includes 3 cross vanes for grade control and bank revetments on both sides of Hartwell Run.<br>• Bank revetments and scour protection downstream of the culvert.<br>• Masonry repairs were made to the culvert structures. |
| Cresheim Creek Interceptor and Outfall | 200 feet | • Project goals include reconfiguration of the intercepting sewer crossing between the two culverts near Woodbrook Lane, replacement of a deteriorated outfall, and installation of bank stabilization and grade control features in the stream channel.<br>• Construction was substantially completed in FY23. |
| Millbourne Cobbs Creek Bank Stabilization | 500 feet | • The project goals include protection of a 3'-6" brick sewer exposed near the channel downstream of Millbourne Dam and stabilization of two separate portions of the downstream left side of Cobbs Creek.<br>• The design includes concrete encasement and boulder toe revetments to protect the existing brick sewer and the access roadway, replacement of an undersized and collapsed corrugated metal pipe with a larger RCP culvert, and removal of the compromised stormwater conduit to promote proper drainage beneath the sewer maintenance access road.<br>• Construction was substantially completed in FY23. |
| Cardone Outfall Bank Stabilization at Rock Run | 350 feet | • A stormwater outfall owned by the adjacent Cardone Factory and draining its parking lot has been collapsing into the stream due in part to its location directly across from the Rock Run regulator.<br>• The regulator's flows have also resulted in about 70 LF of active bank erosion downstream of the outfall.<br>• This project aims to stabilize the outfall structure, protect the eroded bank with a new boulder wall tying in to an existing bank stabilization, and enhance the stream channel upstream of the outfall using an engineered riffle with riprap bank protection. |

| Project Name | Stream Length (ft)\| Drainage Area (acres) | Description |
|---|---|---|
| Park Line Dr Interceptor - Gorgas Chute and Outfall | 250 feet | • Project work is to occur across three sites.<br>• Site 1 includes stabilization and structural repairs to the interceptor crossing and installation of a plunge pool and stream bank stabilization structures at the sewer crossing down the trail from the intersection of Park Line Dr and Hortter St.<br>• Site 2 includes repairs to the concrete chute that conveys storm runoff flows to Gorgas Run from the outfall near Fountain St.<br>• Site 3 includes the installation of new pipe from the collapsed outfall off of Henry Ave that has created a large gully crossing the Yellow Trail and a new outfall structure discharging under the trail into Gorgas Run. |
| Flat Rock Dam Flow Diversion | TBD | • Project goals include improving flow to the Manayunk Canal by effectively diverting more flow through the canal and remove the dam designation from the City owned portion of the dam.<br>• Work associated with the project is focused on the headworks of the Manayunk Canal but will improve conditions along length of the canal. |
| *Status:* **In Construction** | | |
| Mount Moriah Streambank and Cobbs Creek Interceptor Stabilization | 500 feet | • Located along Cobbs Creek in the area adjacent to Mt. Moriah Cemetery, about 350 ft of a 5'-0" brick interceptor and its manholes are exposed along the left bank in multiple areas of the reach.<br>• Work will focus on protecting the sewer in-place using bank protection structures while also employing stream restoration principles to optimize the compromised flow pattern through the three bridges. |
| *Status:* **In Design** | | |
| Cresheim Creek Outlet Tunnel | 300 feet | • The end of the culvert tunnel has degraded and the stream banks and bed around the culvert have significantly eroded. The erosion has exposed a 36-inch water main that was previously in the bank next to the culvert. The water main passes through the culvert, creating blockage for water flow through the culvert.<br>• The project will relocate the water main below the culvert, repair and/or rebuild storm and sanitary infrastructure, and stabilize stream banks downstream of the culvert exit. |
| Neill Drive Stream Corridor Restoration | 1600 feet | • The stream channel parallels sewer gravity and force mains and is deeply entrenched and eroding. There is a significant amount of exposed and vulnerable PWD infrastructure including sanitary sewers, a sanitary force main, a water main crossing, and damaged stormwater outfalls.<br>• The project will protect the vital infrastructure and stabilize eroding streambanks and streambed. |
| Sandy Run Stream Restoration, Infrastructure Protection and Stormwater Wetland | 1500 feet | • The objective of the design will relocate a sewer crossing downstream of the Ryan Avenue Bridge and include related stream restoration elements such as floodplain reconnection. |

| Project Name | Stream Length (ft)\| Drainage Area (acres) | Description |
|---|---|---|
| Pennypack Corridor Improvement Project at Holme Ave | 1500 feet | • Two sanitary sewer crossings are exposed in the mainstem of the Pennypack Creek between Holme Ave and Axe Factory Run. Increased widening and downcutting of the channel over time has destabilized the banks and stranded a manhole.<br>• Project design consists of installing grade control measures to protect the assets in-place, removing the manhole, stabilizing banks to prevent further erosion and widening, and increasing floodplain connectivity along this reach to the maximum extents possible. |
| Benton Brook Stream Restoration | 1200 feet | • The project will address streambank erosion and exposed infrastructure along Benton Brook in the Pennypack Creek Watershed. |
| Green Tree Run Outfall Stabilization | 300 feet | • Objective: stabilize the stream channel around the 54-inch outfall just off Shawmont Ave at Minerva Rd. The gabion baskets have collapsed into the stream channel and the banks continue to erode.<br>• The private property owner signed an easement agreement with Streets when the outfall was originally installed and has complained about the discharge from the outfall causing the erosion of the stream channel. |
| Roosevelt Blvd Dam Removal | 1000 feet | • This project will lower the existing dam by 4 feet and stabilize the walls protecting the trail by installing bank protection measures.<br>• Periodic flooding and erosion of the adjacent Pennypack Trail surface will be reduced through the lowering of the dam crest elevation.<br>• A culvert conveying a tributary will be repaired as it has collapsed and is causing further damage on the trail.<br>• A rock ramp will be constructed to promote fish passage. |
| Tacony Creek - Reach 6 (Juniata Dam Removal) | 1000 feet | • Project will improve water quality and aquatic habitat and provide fish passage.<br>• The Juniata dam is on the Tacony Creek, approximately 700-feet upstream from the Castor Ave. bridge. The dam is in good condition however, much of the upstream impoundment was filled by sediment.<br>• The combination of the reduced flow velocity and nutrient-rich sediment supply are suspected of reducing the available dissolved oxygen in the water column.<br>• The height of the dam also presents a complete barrier to fish passage during the majority of flow conditions. |

| Project Name | Stream Length (ft)\| Drainage Area (acres) | Description |
|---|---|---|
| Tacony Creek – Reaches 4-5 | 1700 feet | • This project entails the restoration of Tacony Creek Reaches 4 and 5 as identified by the Tacony Creek Restoration and Ecosystem Enhancement Program, 4/28/2010.<br>• Objective: restore ~1700 feet of stream channel, enhancement of floodplain wetlands, improvement of the riparian buffer, and the completion of a paved Fairmount Park trail connection from Tabor Road to I and Ramona Sts<br>• This project will connect with the existing Whitaker Avenue stream rehabilitation project. |
| East Branch Indian Creek Stream Restoration and Infrastructure Protection | TBD | • Project will address areas of significant bank erosion and protect critical riparian sewer infrastructure<br>• Aquatic habitat will be improved through reduced sedimentation of the creek bed |
| Pennypack Outfalls at Upstream Rhawn Crossing | 1200 feet | • Project will address areas of significant erosion downstream of three outfalls and protect critical riparian sewer infrastructure<br>• Aquatic habitat will be improved through reduced sedimentation of the creek bed |
| Outfall Stabilization at Ryerson Road | 940 feet | • Project will replace collapsed outfall, apron, and pipe segments, reorient an outfall endwall to ensure the discharge follows the contour slope into the stream channel, protect sewer crossing, and install scour protection. |
| *Status:* **On Hold** | | |
| Woodland Dam Removal | TBD | • Will investigate, select, design and construct the best alternative to reestablish fish passage along Cobbs Creek.<br>• After selection of a recommend type of fish passage design, concurred by both the Corps and PWD, the project will progress to plans and specifications, and construction contingent on the availability of funds.<br>• During FY24, project stakeholders convened to discuss resuming the project. |