

DOCKET NO. D-1995-009 CP-4

DELAWARE RIVER BASIN COMMISSION

**Southeastern Pennsylvania
Ground Water Protected Area**

**Doylestown Township Municipal Authority
Groundwater Withdrawal
Doylestown Township, Bucks County, Pennsylvania**

PROCEEDINGS

This docket is issued in response to an Application submitted to the Delaware River Basin Commission (DRBC or Commission) on September 3, 2025 for renewal of an allocation of groundwater and review of a groundwater withdrawal project (Application). The groundwater withdrawal project was approved by the Pennsylvania Department of Environmental Protection (PADEP) on April 19, 1994 (PADEP Permit No. 0987522 T1).

The Application was reviewed for continuation of the project in the Comprehensive Plan and for approval under Section 3.8 and for a withdrawal permit under Section 10.3 of the *Delaware River Basin Compact*. The Bucks County Planning Commission has been notified of pending action on this docket. A public hearing on this project was held by the DRBC on February 4, 2026.

A. DESCRIPTION

- 1. Purpose.** The purpose of this docket is to renew the approval of an existing supply of groundwater for the docket holder's public water supply distribution system from existing Wells NW-3, NW-4, NW-5, CW-3, CW-5, CW-7, SW-1, SW-2, SW-6 and SW-7. The total system allocation of groundwater will remain at 55.22 million gallons per month (mgm).
- 2. Location.** The project wells are completed in the Stockton Formation. The project wells are located in the Pine Run and Neshaminy Creek Watersheds, in Doylestown Township, Bucks County, Pennsylvania.

Specific location information has been withheld for security reasons.

3. **Area Served.** The docket holder’s distribution system supplies water to Doylestown Township, Bucks County, Pennsylvania, as shown on the map entitled “Doylestown Township Municipal Authority – Doylestown Township Municipal Authority Distribution System” submitted with the Application. The DTMA service area also includes portions of Buckingham, New Britain and Plumstead Townships and New Britain Borough. The docket holder also provides potable water via an interconnection and a bulk water purchase agreement to Doylestown Borough and Bucks County Neshaminy Manor. For the purpose of defining Area Served, the Application is incorporated herein by reference consistent with conditions contained in Section C. DECISION of this docket.

4. **Design Criteria.** The docket holder supplies potable water to an estimated population of approximately 6,355 via 2,542 domestic, 406 commercial, 50 institutional and 47 bulk sale connections. The average and maximum groundwater demand for this project are 1.057 million gallons per day (mgd) and 1.603 mgd, respectively. The docket holder projects an average and maximum water demand of 1.25 mgd and 2.00 mgd, respectively, by the year 2036. The allocation of 55.22 mgm should be sufficient to meet the future demands of the docket holder’s water distribution system.

The docket holder intends to provide Per- and polyfluoroalkyl substance (PFAS) treatment at four (4) well sites. At Well CW-5 with groundwater being pumped also from Well CW-7. At the wellhouse of Wells NW-3 and NW-4. Groundwater will also be treated at Well NW-5. Finally, Well SW-1 with groundwater pumped also from Wells SW-2, SW-6 and/or SW-7. The upgrade of the wellhouse serving NW-3 and NW-4 will include greensand filters to remove manganese. At some point in the future, the wells at these 4 treatment sites would be the sole groundwater supply sources for the docket holder’s water distribution system. Well CW-5 is currently under construction to provide PFAS and manganese removal. The construction on Well CW-5 is expected to be completed in the spring of 2026. An application to the PADEP will be submitted once the well is completed.

5. **Facilities.** The docket holder’s existing wells have the following characteristics:

Northern Water District

WELL NO.	DEPTH (FEET)	CASED DEPTH/ CASING DIAMETER	PUMP CAPACITY (GPM)	YEAR DRILLED
NW-3	320	83’/ 8”	225	1986
NW-4	310	105’/ 8”	225	1986
NW-5	400	50’/ 10”	650	1988

Central Water District

WELL NO.	DEPTH (FEET)	CASED DEPTH/ CASING DIAMETER	PUMP CAPACITY (GPM)	YEAR DRILLED
CW-3	525	68’/ 10”	120	1988
CW-5	480	58’/ 10”	250	1989
CW-7	450	64’/ 10”	250	1989

Southern Water District

WELL NO.	DEPTH (FEET)	CASED DEPTH/ CASING DIAMETER	PUMP CAPACITY (GPM)	YEAR DRILLED
SW-1	300	62’/ Unknown	100	1973
SW-2*	550	41’/ 10”	100	1985
SW-6	530	50’/ 10”	100	1985
SW-7	500	60’/ 10”	140	1986

*Well SW-2 has been offline for many years due to Trichloroethylene (TCE) contamination.

All wells and water service connections are metered.

Prior to entering the distribution system, the groundwater is disinfected by chlorination at each well. Well water from Wells NW-3 and NW-4 is also treated for manganese sequestration prior to entering the distribution system. Well CW-5 is currently under construction to provide PFAS and manganese removal. The construction on Well CW-5 is expected to be completed in the spring of 2026.

The project facilities are above the 100-year flood elevation.

The docket holder’s water distribution system has the following interconnections:

WATER COMPANY	INTERCONNECTION CAPACITY (MGD)	FLOW DIRECTION	STATUS
Doylestown Borough	0.200	Both directions	Regular
North Wales Water Authority	0.065	From NWWA	Regular
North Penn Water Authority	0.100	From NPWA	Regular
Bucks County Neshaminy Manor	0.250	To County	Regular

The docket holder’s storage facilities total 1.55 mg, which is approximately 1.5 days of supply.

6. **Other.** Approximately 50% of the wastewater is conveyed to on-lot systems; the remaining 50% is conveyed to the following wastewater treatment facilities:

WASTEWATER TREATMENT PLANT	DRBC DOCKET	DRBC APPROVAL DATE	PADEP NPDES PERMIT
Chalfont- New Britain Township Joint Sewer Authority	D-1999-063 CP-5	December 5, 2024	PA0025917
BCWSA Green Street	D-2000-022 CP	November 15, 2000	PA0021181
BCWSA Harvey Avenue	D-1999-013 CP-5	September 10, 2025	PA0021172
BCWSA Kings Plaza	D-1983-029 CP	January 25, 1984	PA0051250

BCWSA - Bucks County Water and Sewer Authority

7. **Relationship to the Comprehensive Plan.** The docket holder’s wells were previously included in the Comprehensive Plan by Dockets Nos. D-1986-013 CP and D-1988-018 CP, which were approved on September 17, 1986 and May 25, 1986, respectively. Well CW-3 was included into the Comprehensive Plan in Docket No. D-1989-067 CP, which was approved on September 26, 1990. Wells CW-5, CW-7 and NW-5 were included into the Comprehensive Plan in Docket No. D-1991-040 CP, which was approved on November 4, 1992. Well NW-6 was included into the Comprehensive Plan in Docket No. D-1995-009 CP, which was approved on June 28, 1995. The approval of the docket holder’s public water supply distribution system was continued in Docket Nos. D-1995-009 CP-2 and D-1995-009 CP-3, which were approved on December 7, 2005 and September 16, 2015, respectively. Issuance of this docket will continue the public water supply distribution system in the Comprehensive Plan.

B. FINDINGS

1. Ground Water Protected Area

The project is located within the Southeastern Pennsylvania Ground Water Protected Area delineated by the DRBC pursuant to *Compact* Section 10.2. Historical use by the docket holder indicates the operation of this project will not create a local water shortage.

Review and analysis of the application pursuant to Section 6.D. of the *GWPAR* result in the following:

1. The withdrawal is consistent with the Commission's Comprehensive Plan and the policies and purposes of these regulations.
2. Opportunities to satisfy water requirements on a timely basis from existing available supplies and facilities have been explored and are being utilized.
3. The withdrawal, in conjunction with other withdrawals in the applicable groundwater basin, should not exceed withdrawal limits of the groundwater basin, aquifer or aquifer system.
4. The withdrawal should not significantly impair or reduce the flow of perennial streams in the area.
5. Existing ground and surface water withdrawals should not be adversely impacted or will be otherwise assured of adequate supplies in accordance with the requirements of Section 10 of the *GWPAR*. There have been no reported complaints of well interference since the water distribution system's original approval of this project. No adverse impact is anticipated due to continued operation of this project.
6. The withdrawal should not cause substantial, permanent adverse impact to the overlying environment.
7. The docket holder adopted and will implement conservation and management programs as required by Section 7 of the *GWPAR*.

The docket holder's Wells NW-3, NW-4 and NW-5 are located in the Pine Run subbasin (Subbasin No. 3), where total net annual ground water withdrawal (458.6 million gallons per year (mgy)) is less than the withdrawal limit set in Section 6.I of the *GWPAR* (792 mgy). The docket holder is requesting a monthly allocation of up to 28.21 mgm (338.52 mgy), a fraction of which will be returned to groundwater. Historically, the docket holder has withdrawn significantly less than the total amount requested in this basin. However, even if no water from this project were returned to groundwater, the total net annual groundwater withdrawal from this subbasin would remain well below the withdrawal limits set in Section 6.I of the *GWPAR*. Therefore, the withdrawals from the docket holder's wells, in conjunction with other withdrawals in the subbasin, are in accordance with the requirements of Section 6.I of the *GWPAR*.

The docket holder's Wells CW-3, CW-5 and CW-7 are located in the Doylestown Neshaminy Creek subbasin (Subbasin No. 4), where total net annual ground water withdrawal (334.7 million gallons per year (mgy)) is significantly less than the withdrawal limit set in Section 6.I of the *GWPAR* (1,106 mgy). The docket holder is requesting a monthly allocation of up to 19.84 mgm (238.08 mgy), a fraction of which will be returned to groundwater. Historically, the docket holder has withdrawn significantly less than the total amount requested in this basin. However, even if no water from this project were returned to groundwater, the total net annual groundwater withdrawal from this subbasin would remain well below the withdrawal limits set in Section 6.I of the *GWPAR*. Therefore, the withdrawals from the docket holder's wells, in conjunction with other withdrawals in the subbasin, are in accordance with the requirements of Section 6.I of the *GWPAR*.

The docket holder's Wells SW-1, SW-2, SW-6 and SW-7 are located in the Warwick Neshaminy Creek subbasin (Subbasin No. 5), where total net annual ground water withdrawal (175.5 million gallons per year (mgy)) is significantly less than the withdrawal limit set in Section 6.I of the *GWPAR* (1,181 mgy). The docket holder is requesting a monthly allocation of up to 10.85 mgm (130.2 mgy), a fraction of which will be returned to groundwater. Historically, the docket holder has withdrawn significantly less than the total amount requested in this basin. However, even if no water from this project were returned to groundwater, the total net annual groundwater withdrawal from this subbasin would remain well below the withdrawal limits set in Section 6.I of the *GWPAR*. Therefore, the withdrawals from the docket holder's wells, in conjunction with other withdrawals in the subbasin, are in accordance with the requirements of Section 6.I of the *GWPAR*.

2. Water Audits for Public Water Supply Systems Serving Greater than 100,000 gpd

Section 2.1.8 of the *Water Code (WC)* states that it is the policy of the Commission to establish a standardized water audit methodology for owners of water supply systems serving the public to ensure accountability in the management of water resources. Voluntary Water Audits were encouraged for public water supply systems through December 31, 2011 (Section 2.1.8.B.). Effective January 1, 2012, the owners of each public water supply system are required to implement an annual calendar year water audit program conforming to IWA/AWWA Water Audit Methodology (AWWA Water Loss Control Committee (WLCC) Water Audit Software) and corresponding AWWA guidance (Section 2.1.8.C). Water audits shall be submitted annually to the Commission by March 31. The docket holder submitted their most recent Water Audit on May 13, 2025.

3. Other Findings

The DRBC estimates that the project withdrawals, used for the purpose of public water supply, result in a consumptive use of 10 percent of the total water use. The DRBC definition of consumptive use is defined in Article 5.5.1.D of the *Administrative Manual – Part III – Basin Regulations – Water Supply Charges*.

The project is designed to conform to the requirements of the *Water Code (WC)*, *Water Quality Regulations (WQR)* and *Ground Water Protected Area Regulations (GWPARG)* of the DRBC.

The project does not conflict with the Comprehensive Plan and is designed to prevent substantial adverse impact to the water resources related environment, while sustaining the current and future water uses and development of the water resources of the Basin.

C. DECISION

Effective on the approval date for Docket No. D-1995-009 CP-4 below, the project described in Docket No. D-1995-009 CP-3 is removed from the Comprehensive Plan to the extent that it is not included in Docket No. D-1995-009 CP-4; Docket No. D-1995-009 CP-3 is terminated and replaced by Docket No. D-1995-009 CP-4; and the project and the appurtenant facilities described in in Section A.4. (Design Criteria) and A.5. (Facilities) shall be continued in the Comprehensive Plan. The project and appurtenant facilities as described in Section A.4. (Design Criteria) and A.5. (Facilities) are approved subject to the following conditions, pursuant to Section 3.8 of the *Compact*:

Monitoring and Reporting

1. The docket holder shall continue to report to the PADEP all surface and groundwater sources described in this docket in accordance with the Pennsylvania Regulations (Title 25 - Environmental Protection, [25 PA. CODE CH. 110], Water Resources Planning).

2. The project withdrawals shall be metered by means of an automatic continuous recording device, flow meter, or other method, and shall be measured to within 5 percent of actual flow. Meters or other methods of measurement shall be subject to approval and inspection by the PADEP as to the type, method, installation, maintenance, calibration, reading and accuracy. A record of daily withdrawals shall be maintained, and monthly totals shall be reported to the PADEP annually and shall be available at any time to the Commission if requested by the Executive Director.

3. A long-term monitoring program is required to obtain data on ground water and surface water hydrologic conditions in the project area. The docket holder shall implement the long-term monitoring program as submitted by Intex Environmental Group on behalf of the docket holder in a letter dated November 3, 2005. This program will include the following:

1. **Groundwater Level Monitoring** – The docket holder shall monitor fourteen (14) wells identified in the above referenced letter to estimate annual ground water fluctuations caused by seasonal changes and/or production well pumping and detect water level declines that may adversely affect groundwater levels in the project area.
2. **Reports** - All monitoring data, including records required in Conditions 2 and 3. herein, shall be submitted to the Commission annually, due by April 1. The docket holder is encouraged to submit the annual report electronically. The report shall be prepared by a hydrogeologist and shall assess the effects of well withdrawals on hydrologic conditions in the area. This report shall include an evaluation of the monitoring data required by this docket approval and such information as deemed appropriate by the hydrogeologist or required by the Executive Director.
3. The Executive Director may modify the monitoring program or temporarily suspend or modify this docket at any time if review of the hydrologic data and/or any other information indicates such action is necessary or appropriate.
4. In accordance with DRBC Resolutions No. 87-6 (Revised) and No. 2009-1, the docket holder shall continue to implement to the satisfaction of the PADEP, the systematic program to monitor and control leakage within the water supply system. The program shall at a minimum include: periodic surveys to monitor leakage, enumerate non-revenue water and determine the current status of system infrastructure; recommendations to monitor and control leakage; and a schedule for the implementation of such recommendations. The docket holder shall proceed expeditiously to correct leakages and unnecessary usage identified by the program.
5. In accordance with DRBC Resolution No. 2009-1 and Section 2.1.8 of the *WC*, the docket holder shall implement an annual calendar year water audit program conforming to IWA/AWWA Water Audit Methodology (AWWA Water Loss Control Committee (WLCC) Water Audit Software) and corresponding guidance. Water audits shall be submitted annually to the Commission by March 31.
6. The docket holder shall implement to the satisfaction of the PADEP, a continuous program to encourage water conservation in all types of use within the facilities served by this docket approval. The docket holder will report to the PADEP on the actions taken pursuant to this program and the impact of those actions as requested by the PADEP.
7. The docket holder shall continue to implement its Water Conservation Plan as approved by PADEP and shall report to the PADEP on actions taken pursuant to this program and the impact of those actions as requested by the PADEP.

Other Conditions

8. During any month, the combined withdrawal from all well sources shall not exceed 55.22 million gallons (662.64 mgy). No well shall be pumped above the maximum rate and monthly allocation as indicated below:

WELL NO.	INSTANTANEOUS ALLOCATION (GPM)*	MONTHLY ALLOCATION (MILLION GALLONS)
NW-3 & NW-4**	450	12.71
NW-5	650	15.5
CW-3	120	5.357
CW-5	250	9.765
CW-7	250	10.075
SW-1	100	3.1
SW-2	100	2.325
SW-6	100	2.325
SW-7	140	3.1

*Based on a 24-Hour Average

**Groundwater from wells gets conveyed to the same well house

9. In accordance with 18 C.F.R. 401.8. of the Commission’s *Rules of Practice and Procedure (RPP)*, if at any future time the Project is changed materially from the Project as described in this docket, it will be deemed to constitute a new and different project for the purposes of Article 11 of the Delaware River Basin *Compact* and will require Commission amendment of the Comprehensive Plan. In accordance with the same section of the *RPP*, whenever a change to the Project is made, the sponsor must advise the Executive Director, who will determine whether the change is deemed materially for the purposes of this provision.

10. This approval shall expire on the expiration date set forth below unless prior thereto the docket holder has applied to the Commission to renew or extend this approval.

11. The docket holder is responsible for timely submittal to the DRBC of a docket renewal application on the appropriate application form including the appropriate docket application filing fee (see 18 CFR 401.43) at least 6 months in advance of the docket expiration date set forth below. The docket holder will be subject to late filed renewal surcharges in the event of untimely submittal of its renewal application whether DRBC issues a reminder notice in advance of the deadline or the docket holder receives such notice. If the docket holder has not applied to renew the docket or the DRBC is unable to reissue the docket before the expiration date below, the terms and conditions of the current docket will remain fully effective and enforceable pending the renewal of the docket

12. The wells and operational records shall be available at all times for inspection by the DRBC.

13. The wells shall be operated at all times to comply with the requirements of the *Water Code* and *Water Quality Regulations* of the DRBC.

14. The wells shall be equipped with readily accessible capped ports and minimum ½ inch inner diameter (ID) drop pipes so that water levels may be measured under all conditions. Existing wells are to be similarly equipped, where possible, with readily accessible ports and ½ inch ID drop pipes as repairs or modifications are made at each existing well.

15. Each new water service connection shall include a water meter in accordance with the DRBC's Resolution No. 87-7 (Revised).

16. No water service connections shall be made to newly constructed premises with plumbing fixtures and fittings that do not comply with water conservation performance standards contained in Resolution No. 88-2 (Revision 2).

17. The docket holder shall implement to the satisfaction of the PADEP, a drought or other water supply emergency plan.

18. No new water service connections shall be made to premises connected to sewerage systems which are not in compliance with all applicable effluent limits contained in State permits and the *Water Quality Regulations* of the Commission.

19. Nothing herein shall be construed to exempt the docket holder from obtaining all necessary permits and/or approvals from other State, Federal or local government agencies having jurisdiction over this project.

20. The docket holder is permitted to provide the water approved in this docket to the areas included in Section A.3. Area Served of this docket. Any expansion beyond those included in Section A.3. Area Served is subject to DRBC review and approval in accordance with Section 3.8 of the *Compact*.

21. The docket holder shall be subject to applicable DRBC regulatory program fees, in accordance with duly adopted DRBC resolutions and/or regulations. (see 18 CFR 401.43).

22. This approval is transferable by request to the DRBC Executive Director provided that the project purpose and area served approved by the Commission in this docket will not be materially altered because of the change in project ownership. The request shall be submitted on the appropriate form and be accompanied by the appropriate fee (see 18 CFR 401.43).

23. The docket holder shall request a name change of the entity to which this approval is issued if the name of the entity to which this approval is issued changes its name. The request for name change shall be submitted on the appropriate form and be accompanied by the appropriate fee (see 18 CFR 401.43).

24. The issuance of this docket approval shall not create any private or proprietary rights in the water of the Basin, and the Commission reserves the rights to amend, alter or rescind any actions taken hereunder to ensure the proper control, use and management of the water resources of the Basin.

25. If the monitoring required herein or any other relevant data or information demonstrates that the operation of this project is interfering with or otherwise impairing existing uses of ground or surface water, or if the docket holder receives a complaint from an existing ground or surface water user within the zone of influence of the withdrawal alleging such interference or impairment, the permit holder shall immediately notify the Executive Director, and unless excused by the Executive Director, shall investigate the demonstrated or alleged impacts. For purposes of this condition, notification shall mean either (a) electronic transmittal of written notice to the Executive Director via email (using addresses posted on the DRBC website); or (b) written notice to the Executive Director and a telephone call to the Project Review Section at 609-883-9500, ext. 216. (Oral notification must always be accompanied by immediate written notification directed to the Executive Director). In addition, the docket holder shall provide written notice to all potentially affected water users of the docket holder's responsibilities under this condition. **Any well or surface water supply that is impaired as a result of the docket holder's project withdrawal shall be repaired, replaced or mitigated at the docket holder's expense.** The scope of the options to consider for repair, replacement and/or mitigation shall not be limited solely to those that are owned, operated, or controlled by the project sponsor. An investigation report and/or mitigation plan prepared and certified by a licensed professional engineer and/or a licensed professional geologist shall be submitted to the Executive Director as soon as practicable following notice of the demonstrated or alleged impairment consistent with this paragraph. The Executive Director shall make the final determination regarding the scope and sufficiency of the investigation and the extent of any mitigation measures that may be required. Where ground and surface waters are rendered unavailable, unusable, or unsuitable for the pre-existing use, the Executive Director may direct the docket holder to take interim actions to mitigate such impacts, pending completion of the investigative report and any long-term repair, replacement or mitigation.

26. The Executive Director may modify or suspend this approval or any condition thereof, or require mitigating measures pending additional review, if in the Executive Director's judgment such modification or suspension is required to protect the water resources of the Basin.

27. Any person who objects to a docket decision by the Commission may request a hearing in accordance with Article 6 of the *Rules of Practice and Procedure*. In accordance with Section 15.1(p) of the *Delaware River Basin Compact*, cases and controversies arising under the *Compact* are reviewable in the United States district courts.

BY THE COMMISSION

APPROVAL DATE: March 4, 2026

EXPIRATION DATE: March 4, 2036