

**DOCKET NO. D-1977-094 CP-3**

**DELAWARE RIVER BASIN COMMISSION**

**Aqua Pennsylvania – Flying Hills System  
Groundwater Withdrawal  
Cumru Township, Berks County, Pennsylvania**

**PROCEEDING**

This docket is issued in response to an Application submitted to the Delaware River Basin Commission (DRBC or Commission) on February 16, 2021 for renewal of an allocation of groundwater and review of a groundwater water withdrawal project (Application). The groundwater withdrawal project was approved by the Pennsylvania Department of Environmental Protection (PADEP) on June 6, 2019 (Permit No. 3060018).

The Application was reviewed for continuation in the Comprehensive Plan and for approval under Section 3.8 of the *Delaware River Basin Compact*. The Berks County Planning Commission has been notified of pending action on this docket. A public hearing on this project was held by the DRBC on August 11, 2021.

**A. DESCRIPTION**

**1. Purpose.** The purpose of this docket is to renew the approval of an existing supply of groundwater for public water supply with a decrease in system allocation from 27.82 million gallons per month (mgm) to 24.7 mgm from existing Flying Hills Well 1, Flying Hills Well 2 and Flying Hills Well 3 (Green Hills Manor Well). The renewal will also remove Green Hills Wells 1 and 2 from the docket, both wells are no longer part of the Flying Hills water distribution system.

**2. Location.** Flying Hills Wells 1 and 2 are completed in the Brunswick Conglomerate and Flying Hills Well 3 is completed in Hammer Creek Conglomerate and located in the Schuylkill River Watershed in Cumru Township, Berks County, Pennsylvania. The Schuylkill River near the project site is designated by the PADEP as Warm Water Fishes (WWF) and Migratory Fishes (MF).

Specific location information has been withheld for security reasons.

3. **Area Served.** The docket holder’s distribution system serves portions of Cumru and Robeson Townships, in Berks County, Pennsylvania. The service area is outlined on a map entitled “Flying Hills Service Territory Map” submitted with the previous Application. For the purpose of defining Area Served, the Application is incorporated herein by reference consistent with conditions contained in the DECISION section of this docket.

4. **Design Criteria.** The docket holder operates three (3) existing production wells in the Flying Hills public water supply distribution system. The system currently serves water to approximately 2,995 customers via 1,331 domestic service connections, 90 commercial connections, 3 industrial and 2 other and institutional connections. The docket holder records an existing average and maximum water demand of 0.373 million gallons per day (mgd) and 0.951 mgd, respectively. The docket holder projects an average and maximum water demand of 0.490 mgd and 1.150 mgd, respectively, by the year 2031. The requested allocation of 24.7 mgm should be sufficient to meet the future demands of the docket holder.

5. **Facilities.** The existing project wells have the following characteristics:

WELL NO.	DEPTH (FEET)	CASED DEPTH / CASING DIAMETER	PUMP CAPACITY (GPM)	YEAR DRILLED
Flying Hills Well 1	200	22’/ 8”	300	1933
Flying Hills Well 2	603	101’/ 8”	300	2008
Flying Hills Well 3	500	63’/ 10”	300	1999

All water service connections are metered.

All wells are metered.

Prior to entering the distribution system, the water will be disinfected.

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

6. **Other.** Wastewater is conveyed to the City of Reading sewage treatment facility most recently approved by DRBC Docket No. D-1986-028 CP-4 on December 11, 2019. The PADEP issued its most recent NPDES Permit No. PA0026549 on November 25, 2013 for this treatment facility. The treatment facility has adequate capacity to receive wastewater from the project.

7. **Relationship to the Comprehensive Plan.** The project was previously included in the Comprehensive Plan by the Commission in Docket Nos. D-1977-094 CP, D-2001-026 CP and D-1977-094 CP-2, approved on March 22, 1978, October 31, 2001 and December 13, 2017, respectively. Issuance of this docket will continue the withdrawal project in the Comprehensive Plan.

## **B. FINDINGS**

This docket approval will remove Green Hills Wells 1 and 2 from the docket approval. Aqua Pennsylvania (Aqua PA) interconnected the Green Hills Corporate Center to the Flying Hills water distribution system in 2019. Green Hills Well 2 was taken out of service and abandoned on August 6, 2019. Aqua PA installed a booster station to feed those customers previously supplied by Green Hills Well 2. The Green Hills Corporate Center is physically connected to the Flying Hills System, and simply comprises a separate pressure zone within the same system. While not under the management or ownership of Aqua PA, the Green Hills Corporate Center will continue to utilize Green Hills Well 1, which is a source separate and isolated from the system, at a rate below the Commission’s permitting threshold for the purpose of supplementing water to an ornamental pond.

### **1. 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 March 22, 2021.

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

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 does not conflict with the Comprehensive Plan and is designed to prevent substantial adverse impact on 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-1977-094 CP-3 below, the project described in Docket No. D-1977-094 CP-2 is removed from the Comprehensive Plan to the extent that it is not included in Docket No. D-1977-094 CP-3; Docket No. D-1977-094 CP-2 is terminated and replaced by Docket No. D-1977-094 CP-3; 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 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. 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.

4. 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.

5. The docket holder shall implement to the satisfaction of the Bureau of Watershed Management, 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 Bureau of Watershed Management, PADEP, on the actions taken pursuant to this program and the impact of those actions as requested by the PADEP.

6. 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**

7. During any month, the combined withdrawal from all well sources shall not exceed 24.7 million gallons. No well shall be pumped above the maximum rate and monthly allocation as indicated below:

WELL NO.	MAXIMUM RATE (GPM)*	MONTHLY ALLOCATION (MGM)
Flying Hills Well 1	300	7.50
Flying Hills Well 2	300	7.50
Flying Hills Well 3	300	9.70

\*Based on a 24-Hour Average

8. 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 or not DRBC issues a reminder notice in advance of the deadline or the docket holder receives such notice. In the event that a timely and complete application for renewal has been submitted and the DRBC is unable, through no fault of the docket holder, to reissue the docket before the expiration date below, the terms and conditions of the current docket will remain fully effective and enforceable against the docket holder pending the grant or denial of the application for docket approval.

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

10. The wells shall be operated at all times to comply with the requirements of the WC and WQR of the DRBC.

11. 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.

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

13. 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).

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

15. 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 *WQR* of the Commission.

16. 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.

17. 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*.

18. 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).

19. 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 401.35).

20. 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 401.35).

21. 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 in order to insure the proper control, use and management of the water resources of the Basin.

22. 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.

23. 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.

24. 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: September 9, 2021**

**EXPIRATION DATE: September 9, 2031**