

DOCKET NO. D-1990-007 CP-4

DELAWARE RIVER BASIN COMMISSION

**Borough of Shoemakersville
Groundwater Withdrawal**

Borough of Shoemakersville and Perry Township, Berks County, Pennsylvania

PROCEEDINGS

This docket is issued in response to an Application submitted by ARRO Consulting, Inc. on behalf of the Borough of Shoemakersville to the Delaware River Basin Commission (DRBC or Commission) on February 18, 2015 (Application), for a renewal and approval of an existing allocation of groundwater and review of a groundwater withdrawal project. This docket was previously approved by the Commission on March 1, 2006. The project wells were reviewed under the Pennsylvania Safe Drinking Water Act for public water supply permits and approved by the Pennsylvania Department of Environmental Protection (PADEP) on March 15, 1990 (PADEP Permit No. 0689516).

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 September 15, 2015.

A. DESCRIPTION

1. Purpose. The purpose of this docket is to renew the approval of an existing supply of groundwater to the docket holder's public water supply system from existing Wells Nos. 1, 3, 4, 5 and 6. The total allocation of groundwater will remain 7.5 million gallons per month (mgm). The Borough of Shoemakersville is not requesting an increase in groundwater withdrawal allocation from that contained in its prior approval.

2. Location. The project wells are located in the Schuylkill River Watershed, in the Borough of Shoemakersville, Berks County, Pennsylvania. The project wells are completed in the Hamburg Sequence Formation. The Schuylkill River near the project site is designated by the Pennsylvania Department of Environmental Protection (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 water distribution system serves the Borough of Shoemakersville as shown on a map entitled “Service Area Map, Shoemakersville Borough”, submitted with the Application.

4. **Physical features.**

a. **Design criteria.** The Borough of Shoemakersville supplies water to an estimated population of 1,378 via 647 domestic and 43 commercial connections. The average and maximum groundwater demand for this project are 0.105 million gallons per day (mgd) and 0.814 mgd, respectively. The docket holder estimates an increase in average and maximum demand over the next ten years. The projected average and maximum demand is estimated to be 0.121 mgd and 0.838 mgd, respectively. The allocation of 7.5 mgm should be sufficient to meet the future demands of the Borough of Shoemakersville system.

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

WELL NO.	DEPTH (FEET)	CASED DEPTH (FEET)	PUMP CAPACITY (GPM)	YEAR DRILLED
1	302	Unknown	30	1934
3	417	73	70	1948
4	350	180	80	1961
5	392	72	50	1967
6	315	96	125	1989

All wells and water service connections are metered.

Prior to entering the distribution system, all wells are treated with sodium hypochlorite for disinfection. Wells Nos. 4, 5 and 6 are also treated for iron, manganese, hydrogen sulfide and turbidity; caustic soda is also added for pH adjustment.

The project wellheads are located above the 100-year flood elevation.

The water system is presently interconnected with the Perry Township Municipal Authority distribution system. The interconnection has a capacity of 0.085 million gallons per day (mgd) and is used on a regular basis.

The Borough of Shoemakersville storage facilities total 0.575 mg, which is approximately 5 days of supply.

c. **Other.** Wastewater is conveyed to the Borough of Shoemakersville sewage treatment facility most recently approved by DRBC Docket No. D-1993-074 CP-3 on December 8, 2010. The Borough of Shoemakersville has submitted a renewal application and is currently awaiting approval. The PADEP issued its most recent NPDES Permit No. PA0024074 on June 1, 2010 for this treatment facility. The treatment facility has adequate capacity to receive wastewater from this project.

d. **Relationship to the Comprehensive Plan.** The Borough of Shoemakersville Wells Nos. 1, 3, 4 and 5 were included in the Comprehensive Plan via DRBC Docket No. D-1967-011 CP, issued on March 29, 1967. The Borough of Shoemakersville Well No. 6 was included in the Comprehensive Plan via DRBC Docket No. D-1990-007 CP, issued on March 28, 1990. The approval of the Borough of Shoemakersville wells was continued via DRBC Dockets Nos. D-1990-007 CP RENEWAL and D-1990-007 CP-3 issued on August 9, 1995 and March 1, 2006, respectively. Issuance of this docket will continue the groundwater withdrawal project in the Comprehensive Plan.

B. **FINDINGS**

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

The docket holder 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.

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

Section 2.1.8 of the Water Code 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 Borough of Shoemakersville submitted their most recent Water Audit on April 7, 2014.

C. DECISION

- I. Effective on the approval date for Docket No. D-1990-007 CP-4 below:
- a. The project described in Docket No. D-1990-007 CP-3 is removed from the Comprehensive Plan to the extent that it is not included in D-1990-007 CP-4; and
 - b. Docket No. D-1990-007 CP-3 is rescinded and replaced by Docket No D-1990-007 CP-4.
 - c. The project and the appurtenant facilities described in the Section entitled “Physical features” above shall be added to the Comprehensive Plan.
- II. The project as described in the Section entitled “Physical features” above is approved pursuant to Section 3.8 of the *Compact*.
- a. Docket approval is subject to all conditions, requirements, and limitations imposed by the PADEP, and such conditions, requirements, and limitations are incorporated herein, unless they are less stringent than the Commission’s.
 - b. The wells and operational records shall be available at all times for inspection by the DRBC.
 - c. The wells shall be operated at all times to comply with the requirements of the *Water Code* and *Water Quality Regulations* of the DRBC.
 - d. During any month, the combined withdrawal from all well sources shall not exceed 7.5 million gallons. No well shall be pumped above the maximum instantaneous rate and monthly allocation as indicated below:

WELL NO.	MAXIMUM INSTANTANEOUS RATE (GPM)	MONTHLY ALLOCATION (MGM)
1	30	0.634
3	70	1.479
4	80	1.690
5	50	1.057
6	125	2.640

e. The wells shall be equipped with a readily accessible capped port and drop pipe so that water levels may be measured under all conditions.

f. The project withdrawals shall be metered with an automatic continuous recording device that measures to within 5 percent of actual flow. An exception to the 5 percent performance standard, but no greater than 10 percent, may be granted if maintenance of the 5 percent performance is not technically feasible or economically practicable. 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.

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

h. 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.

i. In accordance with DRBC Resolution No. 2009-1 and Section 2.1.8 of the Water Code, 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.

j. The docket holder shall implement to the satisfaction of the PADEP, the 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.

k. 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).

l. The docket holder shall 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.

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

n. 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.

o. 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.

p. 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*.

q. Unless an extension is requested and approved by the Commission in advance, in accordance with paragraph 11 of the Commission's Project Review Fee schedule (Resolution No. 2009-2), the docket holder is responsible for timely submittal of a docket renewal application on the appropriate DRBC application form at least 12 months in advance of the docket expiration date set forth below. The docket holder will be subject to late charges 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 (or the later date established by an extension that has been timely requested and approved), 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.

r. 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.

s. If the monitoring required herein, or any other data or information demonstrates that the operation of this project significantly affects or interferes with any domestic or other existing uses of ground or surface water, or if the docket holder receives a complaint by any existing ground or surface water users within the zone of influence of the withdrawal, the docket holder shall immediately notify the Executive Director of any complaints by any ground or surface users within the zone of influence of the withdrawal, and unless excused by the Executive Director, shall investigate such complaints. The docket holder should direct phone call notifications of potential well or surface water interference or complaints of interference to the DRBC Project Review Section at 609-883-9500, extension 216. Oral notification must always be followed up in writing directed to the Executive Director. In addition, the docket holder shall provide written notification to all potentially impacted users of wells or surface water supplies of the docket holder's responsibilities under this condition. Any ground or surface water user which is substantially adversely affected, rendered dry or otherwise diminished as a result of the docket holder's project withdrawal, shall be repaired, replaced or otherwise mitigated at the expense of the docket holder. A report of investigation and/or mitigation plan prepared by a hydrologist shall be submitted to the Executive Director as soon as practicable. The Executive Director shall make the final determination regarding the validity of such complaints, the scope or sufficiency of such investigations, and the extent of appropriate mitigation measures, if required.

t. 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.

u. For the duration of any drought emergency declared by either Pennsylvania or the Commission, water service or use by the docket holder pursuant to this approval shall be subject to the prohibition of those nonessential uses specified by the Governor of Pennsylvania, the Pennsylvania Emergency Management Council, PADEP, or the Commonwealth Drought Coordinator to the extent that they may be applicable, and to any other emergency resolutions or orders adopted hereafter by the Commission.

v. 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 16, 2015

EXPIRATION DATE: September 16, 2025