



# SUSQUEHANNA RIVER BASIN COMMISSION

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## Groundwater Withdrawal Application Summary

**Source Name:** BBWA2

**SRBC Pending No.:** 2025-107

This summary is only a portion of the application materials and is meant to provide general information about the proposed project.

### 1.1 Project Sponsor

Company Name: Bloomfield Borough Water Authority  
Mailing Address Line 1: 163 Jeanne Fry Lane  
Mailing Address Line 2: P. O. Box 293  
City: New Bloomfield  
State: PA  
ZIP Code: 17068

#### Contact Person:

First Name: Larry  
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### 1.3 Existing and Projected Facility Water Use

The usage should be entered in million gallons per day (mgd) and rounded off to the nearest one thousand gallons (three decimal places).

Projected Design Year:  
2041

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	0.117	0.18
Maximum Daily Water Demand :	0.268	0.302
System Capacity :	0.605	0.605

### 1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 6  
Maximum Instantaneous Withdrawal Rate (gpm): 80  
Maximum 24-Hour Day (mgd): 0.095  
Maximum 30-Day Average (mgd): 0.053

## 2.1 GWWA Project Facility Description

Bloomfield Borough Water Authority Well No. 2 (Well 2) is located in Centre Township, Perry County, Pennsylvania. Well 2 has been used for distribution in the public water supply system owned by Bloomfield Borough Water Authority (BBWA) since July 2001.

Well 2 is one of four wells currently utilized by the BBWA system, which also includes Well 1, Well 3 and PV-2. The community water supply (PWSID 7500012) serves portions of Bloomfield Borough and Centre Township, Perry County. The majority of water usage from the BBWA system is for domestic use. Other uses also include commercial and institutional properties.

The current Susquehanna River Basin Commission (SRBC) docket for Well 2 (Docket No. 20011001) will expire in October 2026. BBWA is requesting to continue withdrawals from Well 2 of up to 0.053 million gallons per day (mgd) on a 30-day average basis (equivalent to 40.3 gallons per minute, gpm). The requested maximum instantaneous withdrawal rate, which is based on the Pennsylvania Department of Environmental Protection (PADEP) permit limit, is 80 gpm.

Well 2 was originally drilled in mid-March 1997 and was reconstructed by Eichelberger's Well Drilling in November 1999 to meet PADEP's regulatory standards for public water supply wells. This well is eight inches in diameter with 85 feet of heavy wall steel casing and a drive shoe, set inside of 75 feet of 12.75-inch casing, and is 405 feet deep. The well penetrates the Marcellus Formation, the Onondaga Formation, and the Old Port Formation. The water bearing zones were encountered in the Old Port Formation, and these rocks were described by others as dark gray, shaly, chert bearing limestone. A minor water bearing zone was encountered at 188 feet below ground surface (bgs), which had a blown yield of approximately five gallons per minute (gpm). The primary water bearing zone was encountered at 217 feet bgs (approximately 475 feet above mean sea level, amsl) with a reported blown yield of 40 gpm. The pump intake is set at 218 feet bgs. Other deeper water bearing zones were reported at: 225 feet bgs (40 gpm), 256 feet bgs (40 gpm), and 323 feet bgs (25 gpm).

Well 2 was initially permitted by the SRBC in Docket No. 20011001, which approved withdrawals of up to 0.058 MGD on a 30-day average basis. Testing conducted to support the original Well 2 docket and additional studies conducted by others included the following:

- A step drawdown test and 48-hour constant rate test were conducted in 1997.
- A 24-hour pumping test was conducted using an average pumping rate of 80 gpm in January 2000. These test results indicated a specific capacity of 0.25 gpm per foot of drawdown.
- To satisfy special conditions, nearby surface water bodies and wetlands were monitored to evaluate potential impacts of combined withdrawals from BBWA Well No. 1 (Well 1) and Well 2. This testing was completed in 2005 and approved by the SRBC.

In accordance with the 2001 docket, the maximum allowable drawdown in Well 2 is set to 210 feet bgs using an automatic pump shutoff control, which protects its primary water bearing zone at 217 feet bgs. Additionally, SRBC dockets and the PADEP operations permits for BBWA's Well 1 and Well 2 require alternating withdrawals from Well 1 and Well 2, so that these two wells may not be operated simultaneously.

The current total system withdrawal limit is 0.180 mgd on a 30-day average basis (Docket Nos.

20160901, 20181203, and 20200901). Engineering projections for the next 15 years estimate an average withdrawal (maximum 30-day average) of 0.18 mgd and a peak daily withdrawal of 0.30 mgd. Therefore, BBWA is not requesting to increase the total system withdrawal limit and the existing system capacity of 0.605 mgd is expected to be sufficient to meet the projected demands.