



SUSQUEHANNA RIVER BASIN COMMISSION

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Groundwater Withdrawal Application Summary

Source Name: Municipal Authority of the Borough of Mansfield Well 1

SRBC Pending No.: 2024-012

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: Municipal Authority of the Borough of Mansfield
Mailing Address Line 1: 14 South Main Street
Mailing Address Line 2:
City: Mansfield
State: PA
ZIP Code: 16933

Contact Person:

First Name: Christopher
Last Name: McGann
Title: Borough Manager
Telephone: 570-662-2315
Fax:
Mobile:
E-mail: mansfieldmanager@ptd.net

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:
2038

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	0.263	0.318
Maximum Daily Water Demand :	0.365	0.441
System Capacity :	0.494	0.494

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 18
Maximum Instantaneous Withdrawal Rate (gpm): 120
Maximum 24-Hour Day (mgd): 0.173
Maximum 30-Day Average (mgd): 0.173

2.1 Project Facility Description - Municipal Authority of the Borough of Mansfield, Well 1

Municipal Authority of the Borough of Mansfield (MABM) owns and operates a public water supply system (System) serving Mansfield Borough and portions of Richmond Township in Tioga County, Pennsylvania. MABM intends to be the long-term owner and operator of the system. The System includes three existing sources (Wells 1, 2, and 3), two springs (Spring 1 and Spring 2), and the Webster Reservoir. The Webster Reservoir is no longer an active source for the system. An interconnect is also available to Mansfield University but has not yet been used. Due to expiration of the current SRBC approval (Docket 1994-0707), MABM is requesting a renewal of Well 1 for a 30-day average withdrawal of 0.173 million gallons per day (mgd) and a maximum instantaneous withdrawal rate of 120 gallons per minute (gpm). The current approval issued by SRBC in 1994 allows for withdrawal by Well 1 of a 30-day average of 0.200 mgd.

Well 1 was drilled in 1989 as an auxiliary water supply to the Webster Reservoir for when water levels declined in the reservoir during drought. Well 2 was added in 1997 and Well 3 was added circa 2000. Currently, the reservoir is not used and the Springs were grandfathered as water supplies in 2021. Well 1 and Well 2 provide, on average, 84% of the water to the MABM system. The System provides potable water for 821 domestic connections, 156 commercial connections, and 40 institutional connections. These usages are planned to continue for the 15-year duration of the new docket approval.

Well 1 was tested by MABM during the three events as follows:

- February 12-14, 1991: 48 hours @ 140 gpm
(initial information indicated that the 1991 test was only 25 hours)
- July 18-20, 1994: 48 hours @ 120 gpm
- August 9-12, 2023: 72 hours @ 70 gpm

During the 2023 operational testing, the original intent was to pump Well 1 at 140 gallons per minute. However, MABM operational staff determined that the system did not have the storage capacity for continual operations at 140 gpm and could not withstand continual operations at that rate. Therefore, they operated Well 1 at the rate of 70 gpm which was the system's capacity for that time of year. Water levels in Well 2, a previously advanced monitoring well, Lamb's Creek, the Springs, and wetlands were also monitored before, during, and after the test. The testing results, along with historical usage records, indicate that water levels and drawdowns in Well 1 reacted consistently with previous tests and that water withdrawals from Well 1 could be operated at the previously approved rate without causing long-term adverse impacts to the ground water supply, other water users, or to the environment. MABM tests and monitors its water supplies, including monitoring of daily withdrawal quantities and ground water levels, to comply with requirements by SRBC and Pennsylvania Department of Environmental Protection.

MABM maintains two water storage tanks within the Borough. The Fourth Street standpipe has a storage capacity of 500,000 gallons and the Business Park standpipe has a storage capacity of 275,000 gallons. Both standpipes require that a certain level be maintained. Since 2013



MABM also has supported an interconnection with Mansfield University to provide water to the University to provide potable water to the university if needed. The University has not yet needed to activate the interconnection as of January 2024. Customers of the MABM public water system are connected to the Mansfield Borough Wastewater Treatment Plant. Return flow from the plant is discharged to the Tioga River.