



SUSQUEHANNA RIVER BASIN COMMISSION

4423 North Front Street • Harrisburg, Pennsylvania 17110-1788
Phone (717) 238-0423 • Fax (717) 238-2436
Web <http://www.srbc.net>

Groundwater Withdrawal Application Summary

Source Name: SMTMA Well 3

SRBC Pending No.: 2021-108

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: South Middleton Township Municipal Authority
Mailing Address Line 1: PO Box 8
Mailing Address Line 2:
City: Boiling Springs
State: PA
ZIP Code: 17007

Contact Person:

First Name: Josephine
Last Name: Hall
Title: Manager
Telephone: 7172586476
Fax:
Mobile:
E-mail: jhall@smtma.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:
2036

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	2.704	3.54
Maximum Daily Water Demand :	2.882	3.54
System Capacity :	3.746	4.058

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 25
Maximum Instantaneous Withdrawal Rate (gpm): 650
Maximum 24-Hour Day (mgd): 0.936
Maximum 30-Day Average (mgd): 0.936

DETAILED PROJECT DESCRIPTION

Well 3 is an existing groundwater source located southwest of Carlisle adjacent to Rockledge Drive in South Middleton Township, Cumberland County, Pennsylvania. South Middleton Township Municipal Authority (SMTMA) retains an SRBC docket (19880404) for groundwater withdrawals of 0.624 million gallons per day (MGD) from the above-mentioned well, which expired in 2018. In addition to Well 3, SMTMA has two additional wells used to supply South Middleton Township and portions of Middlesex Township, North Middleton Township, Dickinson Township, and Monroe Township. The wells also have the ability to provide emergency water to the Borough of Carlisle and Mount Holly Springs Borough. The groundwater withdrawal application for Well 3 requests a 30-day average withdrawal rate of 0.936 MGD (650 GPM).

Well 3 was originally drilled in January 1985 to a total depth of 400 feet, with 34 feet of 16 inch casing and 120 feet of 12 inch casing. In 1988, the SRBC approved the groundwater withdrawal of up to 0.624 MGD from Well 3. SMTMA received approval from PADER under Permit No. 2188501 on August 17, 1989 for a flow rate of 650 GPM.

The well water is used for public water supply to residences, commercial businesses, industries, and to supply portions of the water supply needs to adjacent municipalities. Wastewater from the Well 3 area is treated at the Carlisle Regional Water Pollution Control Facility and is discharged into the Conodoguinet Creek which ultimately flows to the Susquehanna River.

The increase in withdrawal from Well 3 is requested to meet the future needs of the service area. Cumberland County and South Middleton Township in particular are continuing to see considerable land development and, according to U.S. Census Bureau estimates, Cumberland County remains one of the fastest growing counties in the state.

A step test was run on Well 3 in December 2020 and a 72-hour constant rate aquifer test was conducted at a rate of approximately 650 GPM from March 8 through March 11, 2021. An Aquifer Testing Report has been prepared to summarize the results of this testing. The requested withdrawal rate is based on the aquifer test results, groundwater availability of the Well 3 basin, and lack of potential impacts to other users and resources.