



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: Well 8

SRBC Pending No.: 2024-045

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: Caernarvon Township Authority
Mailing Address Line 1: 601 Hemlock Road
Mailing Address Line 2: P.O. Box 188
City: Morgantown
State: PA
ZIP Code: 19543

Contact Person:

First Name: Paul
Last Name: McEwen
Title: Lead Operator
Telephone: 610-286-1017
Fax: 610-286-1019
Mobile: 484-364-6260
E-mail: ctawaterop@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:
2039

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	0.379	0.65
Maximum Daily Water Demand :	0.654	0.719
System Capacity :	0.72	0.673

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 11
Maximum Instantaneous Withdrawal Rate (gpm): 500
Maximum 24-Hour Day (mgd): 0.317
Maximum 30-Day Average (mgd): 0.317

DETAILED PROJECT DESCRIPTION

Well No. 8 is an existing groundwater source. Well 8 is located within the property of the Caernarvon Township Authority that is surrounded by property owned by Titanium Metals Corporation. The CTA has an agreement that provides access to the wellsite. Well No. 8 is currently approved with a 30-day average withdrawal rate of 0.720 mgd (500 gpm) and a maximum instantaneous withdrawal rate of 500 gpm. The groundwater withdrawal application renewal will be requesting the withdrawal rate of 0.317 mgd (30 day average) and a maximum instantaneous withdrawal rate of 500 gpm which is the withdrawal values approved by the SRBC without needing an AHE.

The Caernarvon Township Authority (CTA) is the current owner of Well No. 8 and expected to be the owner of the well in the future. Well No. 8 is an existing groundwater well with SRBC Docket No. 19940902. The CTA has two additional ground water wells in service. These are Well Nos. 6 and 7. These wells are SRBC Docket Nos. 20130302 and 20150901, respectively. The CTA system has a maximum permitted 30-day average withdrawal rate of 0.72 mgd currently, and a maximum instantaneous withdrawal of 500 gpm. Well No. 7 is permitted for 0.72 mgd at 500 gpm and Well No. 6 is permitted at maximum 30 day average withdrawal rate of 80,000 gpd but typical is only pumped at 6,000 gpd.

The well water is used for supplying water to the CTA's water distribution system. The system contains approximately 1,125 residential customers, 13 public customers, 50 industrial customers and 218 commercial customers. The existing withdrawal which is being renewed is for the one of the CTA's two main supply wells. Well No. 8 can currently meet the entire system demand, but the new allocation requested would allow the CTA to meet approximately 87% of the average daily system demand with Well No. 8. The CTA is submitting a GP-02 application to allow for Well No. 8 to be used to meet the system wide withdrawal rate of 0.673 mgd during situations when the Authority's existing Well No. 7 would be offline or during other emergency events. The water pumped and distributed by the CTA will generally be discharged as wastewater for customers to the CTMSA to the CTMSA's existing WWTF. The wastewater is treated at the facility and a significant portion of the treated water is discharged back to the Susquehanna River basin under an NPDES permit.

The Well No. 8 withdrawal is being renewed for the following reasons:

1. To continue operating existing Well No. 8, but at a lower average daily withdrawal rate than is currently permitting for the well. The Well is one of the CTA's two main supply wells and will operate in conjunction with Well No. 7 to provide an adequate water supply to the CTA's customers and distribution system.
2. The water withdrawal for the Well is being reduced to be sure that the Well does not draw more water than can adequately be recharged based on the SRBC design calculations.
3. Well No. 8 will also be able to feed the entire system demand in the event that the existing CTA Well No. 7 would be offline for any reason.

The existing Well withdrawal docket was dated on September 27, 1994. The existing well withdrawals are permitted at an average daily withdrawal (30 day average) of 0.72 mgd and the instantaneous maximum withdrawal rate of 500 gpm. The proposed withdrawal request will be for 0.317 mgd for a 30 day average withdrawal at a maximum instantaneous withdrawal rate of 500 gpm. The renewal of the well withdrawal will also decrease the average daily system wide withdrawal rate from 0.72 mgd to 0.673 mgd. The instantaneous maximum withdrawal volume will remain at 500 gpm. The existing wells currently operate based off of existing storage tank water elevations and the majority of the water is pumped from Well Nos. 7 and 8. Operation of Well Nos. 7 and 8 alternates throughout the day when the system is operating normally.