



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 2A

SRBC Pending No.: 2023-070

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: East Cocalico Township Authority

Mailing Address Line 1: 102 Hill Road

Mailing Address Line 2:

City: Denver

State: PA

ZIP Code: 17517

Contact Person:

First Name: Michael

Last Name: Galley

Title: Water Quality & Environmental Compliance Specialist

Telephone: 717-336-1731

Fax:

Mobile:

E-mail: mgalley@ecocalicotwpauth.com

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 :	0.8	1.473
Maximum Daily Water Demand :	1.152	1.473
System Capacity :	1.395	1.473

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 11

Maximum Instantaneous Withdrawal Rate (gpm): 225

Maximum 24-Hour Day (mgd): 0.243

Maximum 30-Day Average (mgd): 0.115

1.3.3. Project Facility Description – East Cocalico Township Authority Well 2A

The East Cocalico Township Authority (ECTA) owns and operates a public water system (Total System) that supplies water to East Cocalico Township and portions of West Cocalico and Ephrata Townships in Lancaster County, Pennsylvania. Water usage includes industrial, commercial, and domestic use. The water system includes 12 wells (Wells 2A, 3A, 5, 6, 7, 8A, 9, 10, 11, 14, F, and M) that provided water to approximately 7,504 persons in 2022. Additional housing developments, commercial and industrial facilities currently being constructed in East Cocalico Township and West Cocalico Township will increase the Total System demands in the near future and throughout the next 15 years. As of June 2023, Well M has not operated, but is planned to be connected to the system in 2023 after Pennsylvania Department of Environmental Protection (DEP) permitting is completed. Wells 4 and 12 were permanently closed and properly abandoned in August 2022.

A Total System withdrawal limit (maximum 30-day average) of 1.395 mgd is currently approved by the Commission in Docket No. 20220606. The current maximum 30-day average water demand of the Total System is 0.800 mgd, which occurred in July 2020 (July 14), and is projected to be 1.473 mgd in 15 years. The ECTA is not requesting an increase in the existing Total System withdrawal limit at this time because increases above the current limit of 1.395 mgd are not anticipated to occur within at least five years.

The recent maximum daily water demand (peak day) was 1.152 mgd on July 22, 2019. Well 2A is permitted by DEP (DEP Permit Nos. 3699506 and 3610537MA) for a maximum instantaneous withdrawal allowance of 250 gallons per minute (gpm) and 225 gpm for 4-log treatment purposes. Well 2A is currently approved by the Susquehanna River Basin Commission (SRBC) for withdrawal of 0.576 mgd as a 30-day average (SRBC Docket No. 19990901). Well 2A has been operating since shortly after its approval in September of 1999. The ECTA is requesting a 30-day average withdrawal of 0.115 mgd for the SRBC docket renewal and a maximum instantaneous withdrawal rate of 225 gpm, which equates to the DEP-approved 4-log treatment flow rate. Well 2A's historical maximum 30-day average withdrawal from January 1, 2015 to December 30, 2022 is 0.132 mgd which occurred in August 2020, and the maximum daily withdrawal during the same period is 0.153 mgd which occurred on July 22, 2019.

ECTA maintains four storage tanks throughout the Township, with a combined storage capacity of 4.7 million gallons. ECTA does not utilize any surface water or surface water impoundments.

The majority (approximately 92 to 97 percent) of the East Cocalico Township's wastewater is treated by Ephrata Borough's Wastewater Treatment Plant #2, where treated water is discharged to Cocalico Creek. Approximately three to eight percent of the township's water is sent to the Adamstown Treatment Plant, where water is discharged to the Little Muddy Creek.