



# SUSQUEHANNA RIVER BASIN COMMISSION

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## Groundwater Withdrawal Application Summary

**Source Name:** ECTA Well 14

**SRBC Pending No.:** 2023-021

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: Scott

Last Name: Carl, Sr.

Title: Authority Administrator

Telephone: 717-336-1731

Fax: 717-336-1735

Mobile: 484-256-2673

**E-mail:** [scarl@ecocalicotwpauth.com](mailto:scarl@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:

2038

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	0.8	1.395
Maximum Daily Water Demand :	1.152	1.395
System Capacity :	1.395	1.395

### 1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 12

Maximum Instantaneous Withdrawal Rate (gpm): 150

Maximum 24-Hour Day (mgd): 0.216

Maximum 30-Day Average (mgd): 0.201

## **2.1 Project Facility Description – East Cocalico Township Authority Well 14**

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 eleven active wells (Wells 2A, 3A, 5, 6, 7, 8A, 9, 10, 11, 14, and F) that provided water to approximately 7,400 persons in 2021. Additional housing developments and commercial 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 February 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.

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 1.395 mgd in 15 years. The recent maximum daily water demand (peak day) was 1.152 mgd on July 22, 2019. Well 14 is permitted by DEP (DEP Permit No. 3696503 and 3610537MA) for a maximum instantaneous withdrawal allowance of 140 gallons per minute (gpm). Well 14 is currently approved by the Susquehanna River Basin Commission (SRBC) for withdrawal of 0.226 mgd as a 30-day average (SRBC Docket No. 19981202) and began operation in 1999. The ECTA is requesting a 30-day average withdrawal of 0.201 mgd for the SRBC docket renewal, which will equate to the DEP allowance. Well 14's historical maximum 30-day average withdrawal from January 1, 2015 to June 30, 2022 is 0.110 mgd which occurred in June 2018, and the maximum daily withdrawal during the same period is 0.195 mgd which occurred on June 11, 2022 during operational testing.

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.