



SUSQUEHANNA RIVER BASIN COMMISSION

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Groundwater Withdrawal Application Summary

Source Name: Conley 2 AHE

SRBC Pending No.: 2024-006

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: Veolia Water Pennsylvania, Inc.

Mailing Address Line 1: 6310 Allentown Boulevard

Mailing Address Line 2: Suite 104

City: Harrisburg

State: PA

ZIP Code: 17112

Contact Person:

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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 :	0.456	0.712
Maximum Daily Water Demand :	0.574	0.838
System Capacity :	0.65	0.946

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 1

Maximum Instantaneous Withdrawal Rate (gpm): 100

Maximum 24-Hour Day (mgd): 0.144

Maximum 30-Day Average (mgd): 0.14

2.1 GWWA Project Facility Description

Conley Lane Well No. 2 (Conley 2) is located in Newberry Township, York County, Pennsylvania. Conley 2 has been used as a public water supply well since 1994 and is owned and operated by Veolia Water Pennsylvania, Inc. (Veolia).

Conley 2 is one of ten wells in the Newberry system, which is a community water supply serving portions of Newberry Township, York County (Figure 2.1). The majority of water usage from the Newberry Operation is for domestic use. Other uses also include industrial, institutional and commercial properties. These usages are planned to continue for the 15-year duration of the requested docket approval. The Newberry system includes ten wells with three interconnected subsystems. Conley 2 operates along with Conley Well 1 and the Coppersmith, DuPont and Eden wells to make up the Newberry Subsystem. The Newberry system was previously owned by United Water of Pennsylvania (1994 to late-2015) and by SUEZ Water Pennsylvania Inc. (late-2015 to March 2022).

The current docket for Conley 2 will expire in July 2024 and Veolia is requesting to continue withdrawals of up to 0.14 MGD (equivalent to 97.2 gpm) from the Conley 2 well. The requested maximum instantaneous withdrawal rate, which is based on the Pennsylvania Department of Environmental Protection (PADEP) permit limit, is 100 gpm.

Conley 2, drilled in September 1993, is six inches in diameter and is 605 feet deep. The well penetrates sandstones of the Gettysburg Formation. Shallow, minor water bearing zones encountered during drilling at 41 to 43 feet deep and at 125 to 127 feet were cased-off with 6-inch well casing set at 162 feet below ground surface (bgs). A minor water bearing zone was encountered between 243 and 255 feet bgs, which had an estimated blown yield of eight gallons per minute (8 gpm). The major water bearing zones were reported at: 375 feet to 382 feet bgs (15 gpm), 421 to 424 feet bgs (85 gpm), 474 to 475 feet bgs (25 gpm), 514 to 520 feet bgs (38 gpm). Conley 2 was initially permitted by the Susquehanna River Basin Commission (SRBC) in Docket No. 19940708, which approved withdrawal of up to 0.14 million gallons per day (MGD) on a 30-day average basis. To support the original SRBC groundwater withdrawal application, the well yield and drawdown were tested in October 1993. An approximately 48-hour pumping test was conducted using pumping rates of 130 to 156 gpm. Totalizer readings showing gallons pumped during the test were not recorded. The 1993 test results indicated a specific capacity of 0.7 gpm per foot of drawdown.

The current total system withdrawal limit is 0.650 MGD on a 30-day average basis (Docket No. 20210908). Engineering projections for the next 15 years estimate an average withdrawal (maximum 30-day average) of 0.712 MGD and a peak daily withdrawal of 0.838 MGD. The increase in demand is attributed to residential population growth. Therefore, Veolia is requesting to increase the total system withdrawal limit to 0.712 MGD to satisfy the reasonable foreseeable need in 2039. This would be an increase of 0.062 MGD. The current 30-day maximum average SRBC docket limits for each of the 10 existing Newberry System wells total 0.946 MGD. Therefore, the existing system capacity is expected to be sufficient to meet the projected demands.