



SUSQUEHANNA RIVER BASIN COMMISSION

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Web <http://www.srbc.net>

Groundwater Withdrawal Application Summary

Source Name: Pennsylvania State University -
Houserville Wellfield – Well UN-34

SRBC Pending No.: 2018-070

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: The Pennsylvania State University
Mailing Address Line 1: 139J Physical Plant Building
Mailing Address Line 2: 209 Water Treatment Plant Building
City: University Park
State: PA
ZIP Code: 16802

Contact Person:

First Name: James
Last Name: Baird
Title: Utility Systems Engineer “Water
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E-mail: jkb125@psu.edu

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:
2035

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	3.171	3.41
Maximum Daily Water Demand :	4.007	5.23
System Capacity :	9.965	9.965

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 24
Maximum Instantaneous Withdrawal Rate (gpm): 1200
Maximum 24-Hour Day (mgd): 1.728
Maximum 30-Day Average (mgd): 1.678

2.2 Facility Location

Please enter the address of the parcel where the Project Facility is located.

Street Address: 1512 Puddintown Road
State: PA
County: Centre
Municipality: College Township
Zip Code: 16801
Subbasin: West Branch Susquehanna

2.1 PROJECT FACILITY DESCRIPTION

The Pennsylvania State University (PSU) owns and operates groundwater supply wells located in and around State College Borough and College Township, Centre County, Pennsylvania. Nine wells in two wellfields, the Big Hollow and Houserville wellfields, are permitted by the Pennsylvania Department of Environmental Protection (PA DEP) to produce drinking water. Two of the wells in the Big Hollow Wellfield, UN-2 and UN-14, were out of production due to contamination. PSU recently constructed a new advanced water treatment plant which started up in 2017. The new treatment plant will allow these two wells to be used again. In addition, PSU can exchange potable water with the State College Borough Water Authority through two active interconnection points; a third interconnection point is inactive. Also, PSU can supply potable water to the College Township Water Authority in emergency situations through an active interconnection point.

The three wells in the Houserville Wellfield, UN-33, UN-34, and UN-35, are located near the town of Houserville, approximately 1.5 miles northeast of State College, at the mouth of the Houserville Subbasin of Spring Creek. Wells UN-33, UN-34, and UN-35 have been in operation since April 1994, June 1994, and October 1987, respectively. PSU intends to continue to own and operate these wells. The water is withdrawn from the wells, treated, and distributed in the University's water-supply system. Treated effluent from PSU's wastewater treatment plant is discharged primarily at PSU's spray irrigation fields, located approximately 1.25 miles and farther northwest of the Houserville Wellfield in another subbasin of Spring Creek, with a minor amount of raw sewage being treated by the University Area Joint Authority (UAJA) sewage treatment plant along Spring Creek approximately 1.3 miles northeast of the wellfield. Wells UN-33 and UN-34 were tested individually in 1987 at pumping rates of 1100 gallons per minute (gpm), and simultaneously in 1989 with each well pumping at 1200 gpm. Well UN-35 was tested in 1984 at a pumping rate of 1210 gpm. Based on these pumping tests, the Susquehanna River Basin Commission (SRBC) docketed Wells UN-33 and UN-34 for a combined withdrawal (30-day average) of 3.40 million gallons per day (mgd) and Well UN-35 for a withdrawal of 1.70 mgd (Docket No. 19890106). An application for renewal of this docket must be submitted to the SRBC by July 12, 2018, prior to the January 12, 2019 expiration date.