



SUSQUEHANNA RIVER BASIN COMMISSION

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Groundwater Withdrawal Application Summary

Source Name: Lime Hollow #2

SRBC Pending No.: 2018-027

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: Town of Cortlandville
Mailing Address Line 1: 3577 Terrace Road
Mailing Address Line 2:
City: Cortland
State: PA
ZIP Code: 13045

Contact Person:

First Name: Peter
Last Name: Alteri
Title: Chief Water/Sewer Operator
Telephone: 607-756-9637
Fax:
Mobile:
E-mail: palteri@cortlandville.org

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:
2033

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	0.815	1.3
Maximum Daily Water Demand :	1.506	1.506
System Capacity :	1	1.3

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 10
Maximum Instantaneous Withdrawal Rate (gpm): 1574
Maximum 24-Hour Day (mgd): 1.3
Maximum 30-Day Average (mgd): 1.3

2.1 - LIME HOLLOW #2 - DETAILED PROJECT DESCRIPTION

Lime Hollow Well #2 is an existing groundwater source owned by the Town of Cortlandville. Groundwater withdrawn from this well is distributed through the Town of Cortlandville municipal water supply system which is administered by the Town of Cortlandville Water and Sewer Department. The town supply system serves residential, commercial and industrial customers.

The water supply system is also supplied by another groundwater withdrawal well (Lime Hollow #7) located at the same property as Lime Hollow #2 and another well (Terrace Rd) located offsite. Under the current operational protocol, each well is pumped singly on alternating days. However, the requested withdrawal amounts give the ability for any one well to supply the entire system at times when well maintenance or pump maintenance is required. Additionally, the system has interconnections with neighboring communities that allow for supply to, or from those supply systems.

The groundwater withdrawal application for Lime Hollow 2 requests a 30-day average withdrawal rate of 1.300 million gallons per day (mgd) at a normal operational pumping rate of approximately 1,100 gallons per minute (gpm) and a maximum instantaneous withdrawal rate of 1,574 gpm. The groundwater withdrawal application also requests that the total system limit for the facility's sources be increased from 1.000 mgd to 1.300 mgd, which is an increase of 0.300 mgd.

In 1988, the SRBC approved the groundwater withdrawal of up to 0.745 MGD from Lime Hollow 2 under docket number 19880902. In 2002, this approved withdrawal was modified to an increased withdrawal of 1.000 MGD under SRBC docket number 19880902. Water demand is highest during the summer and early fall, during which peak and 30-day average demand approaches the current total system withdrawal limit.

The 0.300-mgd total system increase is needed for a forecast increase in demand from both increased population growth and potential commercial and/or industrial expansion. The system currently operates near its total system withdrawal limit during the high demand season. The total system increase is also justified to allow for additional anticipated demand growth over the 15-year timeframe of the Lime Hollow #2 SRBC docket.

A 48-hour, stepped rate aquifer test was conducted on Lime Hollow #2, with a final pumping rate of 1,574 gpm, from May 18th to the 20th, 1988. A hydrogeologic report has been prepared to summarize the results of this testing. The requested withdrawal rate is based on the aquifer test results, groundwater availability of the Lime Hollow #2 recharge area and lack of potential impacts to other users and resources.