SUSQUEHANNA RIVER BASIN COMMISSION
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Groundwater Withdrawal Application Summary

Source Name: ER-8 **SRBC Pending No.:** 2019-035

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:	Aqua Pennsylvania, Inc.
Mailing Address Line 1:	762 W. Lancaster Ave.
Mailing Address Line 2:	
City:	Bryn Mawr
State:	PA
ZIP Code:	19010

Contact Person:

First Name:	Saad
Last Name:	Yousif
Title:	Senior Engineer
Telephone:	6106451011
Fax:	
Mobile:	
E-mail:	ssyousif@aquaamerica.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:
2034

Total Project Water Usage	**Existing Usage (mgd)**	**Projected Usage For Design Year (mgd):**
Maximum 30-day Average Water Demand :	0.141	0.215
Maximum Daily Water Demand :	0.258	0.381
System Capacity :	0.22	0.22

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5):	12
Maximum Instantaneous Withdrawal Rate (gpm):	146
Maximum 24-Hour Day (mgd):	0.21
Maximum 30-Day Average (mgd):	0.163

2.2 Facility Location

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

Street Address:	Glen Eagles Drive
State:	PA
County:	Luzerne
Municipality:	Hazle Township
Zip Code:	18202
Subbasin:	Middle Susquehanna

Project Facility Description – Eagle Rock Well ER-8

Section 2.1

Well ER-8 was constructed as a replacement for ER-2, and is located on the same parcel approximately 85 feet west of ER-2, within the Eagle Rock Resort (ERR) private community. Aqua Pennsylvania, Inc. is the owner of the Eagle Rock public water system (PWSID#3450070) since 2004, and will remain the owner and operator for the foreseeable future. The PWS serves the seasonal and full-time ERR residences, along with the commercial entities within ERR, such as administration and maintenance buildings, restaurants, and lodging facilities.

The Eagle Rock PWS serves a very large geographic (8 square miles) area compared to the number of connections (<2,500), with approximately 1,000 feet of elevation change and 90 miles of distribution. Due to elevation the system has upper and lower distribution zones that are not connected. The upper zone sources include well ER-4 which produces approximately 0.014 mgd and ER-2 which produces 0.072 mgd; both wells require nearly 24/7 pumping to meet the water demand, plus a bulk water supplement at 0.009 mgd. Well ER-2 production has declined from >200 gpm to 50 gpm due to iron plugging.

Well ER-8 taps the same deep fracture system (649 feet below grade) as ER-2, but at this location the iron plugging is much less so higher withdrawal rates are feasible. Aqua has a planned booster connection from the lower zone of the system that will allow for excess production capacity from existing ER-6 to be available to the upper zone where ER-2 is located, but this will not be functional until at least 2020. The additional capacity that ER-8 provides will enable Aqua to meet daily demand of the upper zone and avoid bulk water hauling. The additional capacity will also be needed to meet the long-term growth projected for ERR, which is projected to add 34 new connections per year.

Well ER-2 will be abandoned after ER-8 is operational. The raw water from ER-8 will be treated with the existing iron-removal filters and disinfected and prior to distribution. The ER-8 requested 30-day maximum average is 0.163 mgd (113 gpm), which will allow for replacement of the current combined ER-2 production (0.072 mgd) and bulk water (0.009 mgd) of 0.081 mgd to be met by a 12-hour daily pumping cycle if operated at 113 gpm. This request is an 18.5% reduction of the existing ER-2 docket 30-day maximum average of 0.200 mgd, and is supported by the aquifer test results.

Along with SRBC approval, Aqua is seeking concurrent approval from PADEP to add ER-8 as a new source as soon as possible. Aqua has applied to PADEP for emergency approval with the hope of having ER-8 operational by June 2019 in order to meet the increased summer season water demand.