



SUSQUEHANNA RIVER BASIN COMMISSION

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ABR(e) Application Consumptive Use from Public Water Supply New/Renewal Application Project Summary

SRBC Pending No.: 2023-078

This summary is only a portion of the application materials and is meant to provide general information about the proposed project.

Project Sponsor

Company Name: Penn State Heath Hampden
Address: 2200 Good Hope Road

State: PA

City: Enola

Zip Code: 17025

Contact Person: Craig Blattenberger

Title:

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Facility Location

Street Address: 2200 Good Hope Road

State: PA

County: Cumberland

Municipality: Hampden Township

Zip Code: 17025

Public Water Supply Information

System: Pennsylvania American Water

Address:

City:

State:

Zip Code:

State System ID No: PA7220036

Requested Consumptive Use Quantity

Project Design Year: 2024

Projected Consumptive Use: 0.162 (mgd)

Penn State Health Hampden Medical Center Consumptive Use Application Project Description – Section 2.1

Penn State Health (PSH) Hampden Medical Center is submitting this consumptive use application to the Susquehanna River Basin Commission (SRBC) under the Approval by Rule (ABR(e)) for consumptive use – non-gas – sourced by public water supply, stormwater, wastewater, and/or other reused/recycled water application process. The application is requesting a consumptive use amount of 0.147 million gallons per day (mgd) as summarized in attachment 1.6.

The Hampden Medical Center consists of a community hospital located on an approximately 44-acre parcel at 2200 Good Hope Road, Hampden Township, Cumberland County that was constructed in 2021. The hospital operates 24 hours per day, 7 days per week. Services that are provided at the hospital includes preventative services, primary care, diagnostic services, acute care, and rehabilitation services, under the Standard Industrial Classification (SIC) Code 8062, for General Medical & Surgical Hospitals. The hospital contains 110 private inpatient beds, an emergency department, physician offices, various specialty inpatient services, imaging and lab services and complete medical and surgical capabilities.

Hampden Medical Center is served by public utilities, which include: public water supplied via the Pennsylvania American Mechanicsburg System; and sanitary wastewater disposal via the Hampden Township Department of Public Works Wastewater Division. Water supply to the site is via two service connections. Wastewater is disposed of via a single service connection. Per the Supplier Agreement Letter included as part of this application Pennsylvania-American Water Company has agreed to provide up to 1.03 million gallons per day (mgd) of potable water to the facility.

Consumptive uses at the facility consist of operations associated with the building heating and cooling systems. These systems include: a chilled water system for cooling; a steam system for humidification and heating along with disinfection / sterilization of medical equipment, and a closed loop hot water system for heating. The consumptive losses from these systems would include evaporative loss across the cooling towers associated with the chilled water system, steam loss from the steam systems via venting and ancillary uses of the steam for disinfection / sterilization and building humidification, and hot water loss via the venting of air from the system. (It should be noted that the hot water system is a closed loop system and losses are anticipated to be negligible).

Current equipment associated with these systems includes: two crossflow cooling towers manufactured to cool 3,150 US gallons per minute (USPGM) of water; two 8.5 MMBTU/Hr steam boilers; and four 6.0 MMBTU/Hr hot water boilers. The total consumptive loss in this current state is estimated to be 97,670 gallons per day (gpd). However, the building was designed to accommodate a future expansion, which would include the installation of an additional cooling tower, an additional steam boiler, and three additional hot water boilers. Therefore, the configuration of these systems at complete buildout would include three cooling

towers manufactured to cool 3,150 USPGM of water, three 8.5 MMBTU/Hr steam boilers, and seven 6.0 MMBTU/Hr hot water boilers; for a total estimated consumptive loss at complete buildout of 147,255 gpd.

Per the above the PSH Hampden medical Center is submitting this application requesting a consumptive use amount of 0.162 mgd (0.147 mgd plus 10%).