

Delaware Geological Survey

State of Delaware
University of Delaware • Delaware Geological Survey Building
Newark, Delaware 19716-7501

David R. Wunsch
Director and State Geologist



April 15, 2025

Bethany DeBussy
Town Manager
Town of Bridgeville

To Ms. Bethany DeBussy:

The Delaware Geological Survey (DGS) requests access to the Town of Bridgeville municipal property located at 600 South Cannon Street (Passwaters Park) for the installation of groundwater monitoring wells and long-term (15+ years) data collection from those wells. These monitoring wells will become part of our state-wide network and data will be used to address critical groundwater quality and availability issues. A map of the property is included with this letter with a symbol indicating the proposed location of the monitoring wells (Attachment A). Any changes to well location or the number of wells installed will be discussed in advance and agreed upon by Bridgeville staff. Should the wells require decommissioning upon completion of the agreed-upon monitoring period, the DGS is responsible for their abandonment in accordance with the applicable protocols established by the State of Delaware.

At the agreed upon site, a well cluster consisting of one shallow well and three deeper wells will be installed. The final depth of each well will be determined based on field observations. The proposed total depth of the deepest well is 380 feet. Wells will be placed no less than 10 feet apart from another well. Depending on the configuration of the well cluster, the wells will be co-located within a 40-foot circumference of each other. All wells will be installed by a DE-licensed well driller and state-issued permits will be obtained. The DGS and/or its contractor will maintain the drill sites and will be responsible for removing drill cuttings and returning the site to its approximate condition prior to well installation. The well installation will take approximately two to three weeks to complete, with the goal of completing them by the end of summer 2025. Upon receipt of a signed access agreement, we will coordinate with Bridgeville municipal staff to confirm the schedule.

Each monitoring well will be finished with stainless-steel protective casing and locked with a DGS lock. DNREC permit tags will be affixed to the well casing. Data collected during the well installation will include soil samples and geophysical logs. After installation, each well will be equipped with an automated datalogger to record water levels. DGS staff will visit the wells generally on a quarterly basis to measure water levels and download data from the dataloggers. DGS staff will visit the wells periodically to collect groundwater quality samples, perform hydraulic testing, and conduct well inspections and maintenance. Water levels and geophysical data will be available to the public on the DGS website and additional data will be provided to stakeholders upon request.

Please sign at the bottom of this letter and return via email to dwunsch@udel.edu. We appreciate your cooperation and willingness to provide site access. Project staff and contact information are provided on the last page of this letter.

April 15, 2025

Sincerely,

David R. Wunsch
State Geologist and Director
Delaware Geological Survey
257 Academy St.
Newark, DE 19716

cc: Brandon Slater (Public Works Director)

The Town of Bridgeville permits the DGS to access Passwaters Park located at 600 South Cannon Street to install groundwater monitoring wells and perform long-term data collection and monitoring, as described in the letter above. Bridgeville municipal staff will be notified via email or phone call prior to work being conducted on these properties; this includes visits for routine monitoring. Any DGS staff accessing these properties will carry a copy of this letter.

Bethany DeBussy
Town Manager
Town of Bridgeville

Date

Project Contacts

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Attachment A

Coordinates 38.734976, -75.604969

