



Maryland
Department of
the Environment

Wes Moore, Governor
Aruna Miller, Lt. Governor

Serena McIlwain, Secretary
Suzanne E. Dorsey, Deputy Secretary
Adam Ortiz, Deputy Secretary

November 19, 2025

CERTIFIED MAIL – 9589 0710 5270 1241 4749 47

Return Receipt Requested

Quantum Maryland, LLC
20251 Century Blvd, Ste 170
Germantown MD 20874

RE: State Water Appropriation and Use Permit No. FR2023G001(03)

Dear Permittee:

Enclosed is your State Water Appropriation and Use Permit. The Permittee is responsible for complying with all permit conditions. Accordingly, you are advised to carefully read the Permit and become thoroughly familiar with its requirements.

A semi-annual Water Withdrawal Report is required by this permit. Forms for making this report will be mailed to you in June and December of each year and shall be submitted to this office by the following July and January respectively. If you have any questions, please contact this office at (410) 537-3590.

Sincerely,

Sam Glover
Samuel Glover
Water Supply Program

cc: Frederick County Health Department

STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER AND SCIENCE ADMINISTRATION

WATER APPROPRIATION AND USE PERMIT

Permit Number: FR2023G001(03)
Effective Date: November 21, 2025
Expiration Date: October 31, 2028
First Appropriation: December 29, 2023



QUANTUM MARYLAND, LLC

Hereinafter referred to as the "Permittee", is authorized by the Water and Science Administration, hereinafter referred to as the "Administration" pursuant to the provisions of Title 5 of the Environment Article, Annotated Code of Maryland, as amended, to appropriate and use waters of the State subject to the following conditions:

1. Allocation - The water withdrawal granted by this permit is limited to:
A daily average of 35,000 gallons on a yearly basis and
A daily average of 100,000 gallons for the month of maximum use.
2. Use - The water is to be used for lowering the groundwater table to facilitate the construction of stormwater management facilities, pump stations, and utility lines for wastewater, potable water, and storm sewers.
3. Source - The water shall be taken from trenches and other excavations, all in the Frederick Limestone.
4. Location - The point(s) of withdrawal shall be located at the former Alcoa Aluminum Works, at an area between New Design Road, Mountville Road, Manor Woods Road, and Ballenger Creek Pike, Adamstown, Frederick County, Maryland.

5. Right of Entry - The Permittee shall allow authorized representatives of the Administration access to the Permittee's facility to conduct inspections and evaluations necessary to assure compliance with the conditions of this permit. The Permittee shall provide such assistance as may be necessary to effectively and safely conduct such inspections and evaluations.
6. Permit Review - The Permittee will be queried every three years (triennial review) regarding water use under the terms and conditions of this permit. Failure to return the triennial review query will result in suspension or revocation of this permit.
7. Permit Renewal - This permit will expire on the date indicated on the first page of this permit. In order to renew the permit the Permittee shall file a renewal application with the Administration no later than 45 days prior to the expiration.
8. Permit Suspension or Revocation - This permit may be suspended or revoked by the Administration upon violation of the conditions of this permit, or upon violation of any regulation promulgated pursuant to Title 5 of the Environment Article, Annotated Code of Maryland as amended.
9. Change of Operations - Any anticipated change in appropriation which may result in a new or different use, quantity, source, or place of use of water shall be reported to the Administration by the Permittee by submission of a new application.
10. Additional Permit Conditions - The Administration may at any time (including triennial permit review or when a change application is submitted) revise any condition of this permit or add additional conditions concerning the character, amount, means and manner of the appropriation or use, which may be necessary to properly protect, control and manage the water resources of the State. Condition revisions and additions will be accomplished by issuance of a revised permit.
11. Drought Period Emergency Restrictions - If the Administration determines that a drought period or emergency exists, the Permittee may be required under the Department's direction to stop or reduce water use. Any cessation or reduction of water use must continue for the duration of the drought period or emergency, or until the Administration directs the Permittee that water use under standard permit conditions may be resumed.
12. Non-Transferable - This permit is non-transferable. A new owner may acquire authorization to continue this appropriation by filing a new application with the Administration. Authorization will be accomplished by issuance of a new permit.
13. Flow Measurement - The Permittee shall measure all water used by a method which accurately reflects the quantity withdrawn.

14. Withdrawal Reports - The Permittee shall submit to the Administration, semi-annually (July-December, no later than January 31st and January-June, no later than July 31st), pumping records. These records shall show the total quantity of water withdrawn each month under this permit.
15. Water Quality Testing - For the areas inside the Environmental Covenant Area, the Permittee shall sample for Potential Contaminants of Concern as directed by the Maryland Department of the Environment Land and Materials Administration under any associated Environmental Management Plan. For areas outside the Environmental Covenant Area, the Permittee shall sample for any contaminants designated under the Administrations associated discharge permits. The Permittee shall retain the sample results at least until the Permit expires. The Permittee shall provide the sample results to the Administration upon request.
16. Minimization of Groundwater Use - The Permittee shall maximize the use of construction practices designed to minimize the amount of groundwater that will be withdrawn during construction. Practices include low-mobility grouting, secant pile wall systems, micro tunneling, sheet piles, trench boxes and horizontal directional drilling.
17. Impacts to Wells - If the Administration determines that other water user(s) in the vicinity of the withdrawal are unreasonably impacted by the water appropriation authorized by this permit, the Permittee shall within twenty-four (24) hours provide bottled water for drinking and, if required by the Administration, a tanker for other uses. The Administration may require the Permittee to replace or retrofit the water supply well of an impacted user or take other corrective measures. In addition, the Administration may require the Permittee to reduce and/or cease its water withdrawals to temporarily eliminate an unreasonable impact on other users or to allow the Administration to conduct an investigation to determine if the Permittee's use is causing an unreasonable impact on a nearby water supply well.

An individual domestic water supply which has been determined by the Administration to be adversely impacted by the withdrawal authorized by this permit shall be considered adequately replaced when the Permittee provides a new or retrofitted well, or alternative water supply approved by the Administration and the County Environmental Health Department. A new or retrofitted well shall meet the minimum yield requirements established in COMAR 26.04.04.26 and approval of use requirements established in COMAR 26.04.04.30, and County Environmental Health Department approval.

Any non-domestic water supply which has been determined by the Administration to be adversely impacted by the withdrawal authorized by this permit shall be considered adequately replaced when the Permittee provides a new or retrofitted well or other alternative water supply approved by the Administration and County Environmental Health Department. A new or retrofitted well shall be capable of yielding water at the same quantity and quality of water used or needed by the property owner/entity in the five years prior to the water supply disruption.

(Condition 17 continued)

A new or retrofitted non-domestic water supply for potable uses, must also meet the approval of use requirements in COMAR 26.04.04.30. If the water supply interruption is not of a temporary nature, the Permittee shall provide a permanent retrofitted/replacement water supply of a sufficient quantity and quality for the required use within a reasonable time, not to exceed 60 days.

18. Expenses - The Permittee shall be responsible for all expenses associated with investigating a complaint, providing bottled water, water tankers, and/or the satisfactory retrofit/replacement of the affected water supply(ies).
19. Permit Supersession - This permit supersedes the Appropriation and Use granted by the following prior permit(s) issued to:
QUANTUM MARYLAND, LLC effective on November 25, 2024 (FR2023G001(02))



Nov 21, 2025

Gregory C. Busch, P.E.
Program Manager
Water Supply Program

Date

FACT SHEET NEW JUDICIAL REVIEW PROCESS

Legislation passed by the 2009 General Assembly changes procedures for certain permits issued by the Department, including water appropriation permits. The new judicial review procedures take effect on January 1, 2010 and will apply to final permit decisions issued on and after January 1, 2010.

Under pre-existing procedures, permit applicants and third parties with standing under Maryland law could challenge the issuance of a permit or the conditions of a permit through a request for a "contested case" adjudicatory hearing conducted by the Office of Administrative Hearings. Effective January 1, 2010, the "contested case" process no longer applies to final decisions on applications for these permits. Rather, permits can be challenged through a request for direct judicial review in the Circuit Court for the county where the activity authorized by the permit will occur. Applicants, and persons who meet standing requirements under federal law and who participated in a public comment process by submitting written or oral comments (where an opportunity for public comment was provided), may seek judicial review. Judicial review will be based on the administrative record for the permit compiled by the Department and limited to issues raised in the public comment process (unless no public comment process was provided, in which case the review will be limited to issues that are connected to the permit).

Who Has Standing?

Anyone who meets the threshold standing requirements under federal law and is either the applicant or someone who participated in the public participation process through the submission of written or oral comments, as provided in Environment Article § 5-204, Annotated Code of Maryland. The three traditional criteria for establishing standing under federal law are injury, causation, and redressability, although how each criterion is applied is highly fact-specific and varies from case to case. Further, an association has standing under federal law to bring suit on behalf of its members when its members would otherwise have standing to sue in their own right, the interests at stake are related to the organization's purpose, and neither the claim asserted nor the relief requested requires the participation of individual members in the lawsuit.

What is the Procedure for Seeking Judicial Review?

Petitions for judicial review of a final determination or permit decision subject to judicial review must be filed in accordance with § 1-605 of the Environment Article no later than 30 days following publication by the Department of a notice of final determination or final permit decision and must be filed in the circuit court of the county where the permit application states that the proposed activity will occur. Petitions for judicial review must conform to the applicable Maryland Rules of Civil Procedure (Title 7, Chapter 200).

To review the legislation follow the link below:

http://mgaleg.maryland.gov/2009rs/chapters/noln/Ch_650_sb1065T.pdf

For a complete list of permits that these procedures apply to follow the link below:

<http://www.mde.maryland.gov/programs/researchcenter/legislativetestimony/pages/jrproc.aspx>