

STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER AND SCIENCE ADMINISTRATION

WATER APPROPRIATION AND USE PERMIT

Permit Number: DO1951G001(11)
Effective Date: September 15, 2018
Expiration Date: August 31, 2024
First Appropriation: June 1, 1951



VALLEY PROTEINS, INC.

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 (2013 replacement volume) 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 150,000 gallons on a yearly basis and
A daily average of 164,000 gallons for the month of maximum use.
2. Use - The water is to be used for process water, truck washing, sanitary facilities, and a potable supply at a poultry rendering plant.
3. Source - The water shall be taken from four wells in the Frederica aquifer.
4. Location - The point(s) of withdrawal shall be located at 5420 Linkwood Road, Linkwood, Dorchester 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 (2013 Replacement Volume) 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 anytime (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. Well Pump Placement - For any well(s), the Permittee shall not place a submersible well pump or water intake part of the well pump lower than the top of the confined aquifer from which the water is being withdrawn.
16. Access for Measuring Water Level / Sampling Raw Water - In order that water levels can be measured during pumping and nonpumping periods in any well(s) authorized by this permit, well pumps/pumping equipment shall be installed in a manner that will accommodate measuring water level(s) without any adjustment/dismantling of the well pump/pumping equipment. An opening for tape measurements of water shall have a minimum inside diameter of 0.5 inches and be sealed by a removable cap or plug. In order to obtain raw water samples from any well(s) authorized for use by this permit, a tap shall be made available before the water enters a treatment facility, pressure tank, or storage tank.
17. Monitoring Well Installation - The Permittee shall install a monitoring well screened across the Frederica aquifer to a depth similar to recently installed Well D (DO-95-1798) to monitor water levels. Prior to constructing the well, the Permittee shall submit a map showing the well location and describe construction details (e.g. diameter, casing and screen material, depth of grout, anticipated screen length) to the Administration for approval within fourteen (14) days of the effective date of this Permit. The Permittee shall obtain the services of a licensed well driller to construct the monitoring well (as approved by the Administration) within thirty (30) days after receiving approval from the Administration. The well installation shall be supervised by a hydrogeologist.
18. Water Level Monitoring - The Permittee shall provide to the Administration a description of the equipment to be used to monitor water levels, including a description of how the water level depth will be converted to depth relative to mean sea level. The Permittee shall install an automated water level measuring device to record at least two (2) water level measurements each day (each measurement to be twelve (12) hours apart, unless an alternate water level monitoring plan is approved by the Administration) to reflect the water level trends in the Frederica aquifer at the property. The Permittee shall begin water level monitoring within one week of completing the installation of the monitoring well. Every three (3) months the Permittee shall download the water level data and report the water level data along with the Permittee's monthly (or more frequent interval, if available) water use from each well in a tabular spreadsheet and graphical format. The water level data shall be reported by January 15th (for data from October through December), April 15th (for data from January through March),

July 15th (for data from April through June) and October 15th (for data from July through September). The Permittee may submit the data electronically to the Administration.

19. Impact to Wells – The Permittee shall notify the Administration before the close of the next business day after receiving a complaint of a water supply well in the area being adversely impacted. The Permittee shall immediately commence a preliminary investigation to determine whether the Permittee could be responsible for the reported impact and to provide recommendations to address the water supply impact. The Permittee shall obtain the services of a qualified individual or company to conduct the investigation. The Permittee shall submit a report of the investigation to the Administration within ten (10) days of receiving the complaint. The report shall include the following information concerning the potentially impacted well: a description of reported impact, including dates and corresponding description of problem for each date; location of the well; well tag number and completion report; depth of well; aquifer from which the well is withdrawing water; depth of well pump; water level(s) measurements during the investigation period; and a description of the uses of water from the well for the several days prior to the water supply impact. The report shall also include water levels collected from the Permittees monitoring well and well production data from each of the Permittee's four production wells for several weeks prior to the complaint up to the initiation of the investigation. The report shall include the Permittee's recommendation(s) for addressing the water supply impact.

If the Administration has determined that an individual domestic well in the Frederica aquifer has been adversely impacted by the withdrawal authorized by this permit, the Permittee shall be responsible for all costs to restore the impacted water supply. The Permittee is responsible to ensure that the improvements are made as expeditiously as possible. The Administration may direct the Permittee to reduce use of the water authorized by this permit until the individual domestic well is improved or replaced.

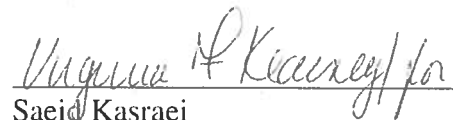
The Permittee is required to provide a domestic water user with adequate bottled water for drinking and cooking and a temporary bulk supply (e.g. tanker) for other household needs, as long as the impacted well is not able to provide for domestic needs. Bottled water and a temporary bulk supply shall be provided within twenty-four hours (24) for any of the ten (10) residential properties identified in Attachment A to this permit. For any other properties which is under investigation of an adverse impact, bottled water and a temporary supply shall be provided by the Permittee within twenty-four (24) hours of determining that their water use caused the impact, or within twenty-four (24) hours of being notified by the Administration that the withdrawal authorized by this permit caused the impact.

It is anticipated that lowering a well pump will restore an individual well in the Frederica aquifer. If a well pump cannot be lowered, or the well otherwise retrofitted to produce a satisfactory supply of water, the Permittee shall be responsible to replace the impacted well. All work associated with the lowering of the well pump, or drilling a replacement well shall be completed within twenty-one (21) days of the notification, unless an alternate date is agreed

upon by the Administration. An individual domestic well 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.

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 investigation and/or all repair work on the potable well shall be with the permission and cooperation of the well owner.

20. Permit Supersession - This permit supersedes the Appropriation and Use granted by the following prior permit(s) issued to:
VALLEY PROTEINS, INC., effective on September 1, 2013 (DO1951G001(10))


Saeid Kasraei
Administrator
Water Supply Program

9/13/18
Date