



WATER QUALITY MANAGEMENT PERMIT

A. PERMITTEE (Name and Address): Bortnick Dairy LLC 21820 Palmer Road Conneautville, PA 16406-4746		CLIENT ID#: 262927	B. PROJECT/FACILITY (Name): Bortnick Dairy Farm	
C. LOCATION (Municipality, County): Beaver Township, Crawford County			SITE ID#: 703634	
D. This amendment approves the modifications of permit conditions related to manure storage facilities consists of: Two 625,000 gallon concrete tanks equipped with a cover for collection of biogas, mixing equipment, heating system and controls, gas collection piping and controls, a flare, a biogas generator and a 20 foot by 60 foot reinforced concrete mix tank with compartments for collection of off-site food wastes, digester effluent and separated waters from the solids building.				
		Manure Storage/Anaerobic Digester: Volume: 1.25 MG Freeboard: 6 inches		
E. APPROVAL GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING: 1. Amendments: All construction, operations and procedures shall be in accordance with the Water Quality Management Permit Amendment application dated February 2, 2023 and its supporting documentation and addendums dated N/A , which are hereby made a part of this amendment. Except for any herein approved modifications, all terms, conditions, supporting documentation and addendums approved under Water Quality Management Permit No. 2008201 dated September 23, 2008 , shall remain in effect. 2. Permit Conditions Relating to Manure Storage are attached and made part of this permit. 3. Special Condition numbered 1, 2, 3, 4, 5, and 6 are attached and made part of this permit.				
F. THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS: 1. If there is a conflict between the application or its supporting documents and amendments and the attached conditions, the attached conditions shall apply. 2. Failure to comply with the rules and regulations of DEP or with the terms or conditions of this permit shall void the authority given to the permittee by the issuance of this permit. 3. This permit is issued pursuant to the Clean Streams Law Act of June 22, 1937, P.L. 1987, as amended 35 P.S. §691.1 <i>et seq.</i> Issuance of this permit shall not relieve the permittee of any responsibility under any other law.				
PERMIT ISSUED: <u>June 27, 2023</u>		BY: <u>Justin C. Dickey</u>	TITLE: Justin C. Dickey, P.E. Clean Water Program Manager Northwest Regional Office	



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

PERMIT CONDITIONS RELATING TO MANURE STORAGE
For use in Water Quality Management Permits

(Check boxes that apply)

General

- 1. The Department of Environmental Protection (DEP) considers the licensed Professional Engineer whose seal is affixed to the design documents is fully responsible for the adequacy of all aspects of the facility design.
- 2. This permit does not supersede any relevant conditions of any prior Water Quality Management permits, decrees or orders issued to the permittee. When a prior permit, decree or order conflicts with a term of this permit, this permit shall govern.
- 3. This permit and all of its conditions apply to the permittee's successors, lessees, heirs and assigns, and any other person in responsible managerial charge of the manure storage facility.
- 4. This permit may not be transferred to another person, unless approved by DEP.
- 5. The permittee is responsible for obtaining and complying with the proper authorization or permits for any outfall, stream crossing, or other change to natural stream channels associated with installation and operation of this manure storage facility.
- 6. This permit will expire 5 years from the date of issue, unless DEP has specifically granted an extension, or construction of the permitted work has begun.
- 7. If the operation is a new or expanded CAFO, an NPDES CAFO permit must be obtained and facility construction must be completed before bringing in or adding animals at the location and beginning the actual operation that results in production or increased production of manure.

Construction

- 8. This permit is issued under the authorization of The Clean Streams Law and 25 Pa. Code Chapter 91. The permittee shall obtain all necessary permits, approvals and/or registrations under 25 Pa. Code Chapters 102, 105 and 106 prior to commencing construction of the facilities authorized by this permit, as applicable. The permittee should contact the DEP office that issued this permit if there are any questions concerning the applicability of additional permits.
- 9. The manure storage facility shall be constructed under the supervision of a Pennsylvania licensed Professional Engineer in accordance with the approved plans and specifications under this permit. Any deviation from the approved plans and specifications requires DEP review and approval before implementation.
- 10. Upon completion, the construction of the facility shall be certified by a Pennsylvania licensed Professional Engineer to be in accordance with the approved WQM permit application and design plans and specifications using the form, "Post Construction Certification Manure Storage Facility" (3800-PM-WSFR0179b). At least 15 days prior to bringing animals (or additional animals) onto the operation, the permittee must submit the certification to DEP. Within 30 days of the certification, if requested by DEP, the permittee must also submit "as-built" drawings, photographs, and a description of any DEP-approved deviations from the application and design plans and specifications.

Operation and Maintenance

- 11. The permittee shall obtain as-built drawings that document the actual construction of the manure storage facility, including any changes from the originally approved plans. The permittee shall also obtain a facility operation and maintenance (O&M) plan for the facility. These documents must be kept up to date on-site and, if requested, shall be filed with DEP.
- 12. In the event of an accident or other incident that leads to a pollutant discharge or a danger of one from the manure storage facility, the permittee shall immediately notify DEP. The permittee shall also take immediate steps to minimize the environmental impact and eliminate the cause of the discharge. Non-compliance with any standard or requirement of this permit must also be reported to DEP.

- 13. The permittee shall implement the O&M plan for the facility and shall otherwise prevent discharges from the facility up to and including the appropriate design storm (100-year, 24-hour storm for new or expanded CAFOs that commenced operations after April 13, 2003, for a manure storage facility that contains manure from swine, poultry or veal calves; 25-year, 24-hour storm for all others). The permittee shall conduct periodic inspections needed to assess the structural stability and available capacity of the facility and shall monitor the leak detection system on a regular basis. DEP recommends weekly inspections as well as reviews following measurable precipitation events.
- 14. In accordance with the operation's nutrient management plan, only those liquids or semi-solids that are provided for in the design volume shall be stored in the facility for which this permit is issued. These liquids or semi-solids are limited to: animal manure, animal bedding, waste feed, barnyard runoff, milking center wash water, flush water, silage leachate, the net precipitation over the longest planned storage period, urine, reproductive wastes and chemical and organic wastes used for animal health and directly discharged via urine, manure or wash water.
- 15. Facilities that are neither CAOs nor CAFOs must have an emergency action plan that describes actions that will be taken in the event of a manure spill. CAOs may meet this requirement with the development and implementation of the contingency plan for manure spills required with the Nutrient Management Plan (NMP). CAFOs shall meet this requirement with the development and implementation of a Preparedness, Prevention and Contingency (PPC) Plan required by the NPDES CAFO permit.
- 16. A full reinspection of the manure storage facilities must be conducted, and a certification issued by a Pennsylvania licensed Professional Engineer every five years to assure the structural stability and integrity of the facility. For CAFOs, the certification must be submitted to DEP at the time of the NPDES renewal application.
- 17. If major changes are proposed to the manure storage in the future, the permittee must obtain DEP approval through an amendment to the permit. Major changes include adding capacity or affecting the structural stability of the facility. Minor changes may be approved by DEP without amending the permit. Routine maintenance activities may be carried out without notifying DEP.
- 18. When the permitted facility is expected to cease operations, the permittee shall promptly submit a Facility Closure Plan that is consistent with PA Technical Guide Standards pertaining to Closure of Waste Impoundments.

Special Conditions

1. The Pollution Prevention and Contingency (PPC) Plan for the facility is to be updated to address gas and manure leaks, manure overflow, structural failure, fire, electrical and plumbing malfunctions that may result from construction and operation of the anaerobic digester and related equipment.
2. The Nutrient Management Plan (NMP) shall be updated to reflect the addition of food wastes or any other waste that is not addressed in the approved NMP.
3. The Department's Municipal & Residual Waste Division in the Waste Management Program, (717) 787-7381, shall be contacted prior to accepting any additional wastes at the facility to determine the additional approvals that are required.
4. A site-specific operation and maintenance plan shall be developed. The plan shall include:
 - Proper loading rate of the digester and total solids content of the influent.
 - Proper operating procedures for the digester.
 - Estimates of biogas production, methane content, and potential energy recovery.
 - Description of the planned startup procedures, normal operation, safety issues, and normal maintenance items.
 - Alternative operation procedures in the event of equipment failure.
 - Instruction for safe use or flaring of biogas.
 - Digester and other component maintenance intervals and procedures.
 - Troubleshooting guide.
 - Monitoring plan and frequency of measuring and recording digester inflow, operating temperatures, biogas yield, and/or other information as appropriate.
5. The amount of manure and additional waste that are added to the digesters are to be recorded. This information shall include the number of animal units on the farm, the number of gallons of manure added from the animals on-site, the gallons of milkhouse waste added, the amount of waste added from off-site, the source of off-site waste, and the total amount of waste added to the digester in equivalent animal units.
6. Permittee shall obtain written approval from DEP before accepting any new off-site/third party waste stream, other than manure or agricultural process wastewater, for land application at the Farm, processing in the Digester, and/or storage in the Farm's manure storage facility.