

Application Type Renewal  
Facility Type CAFO  
Permit Type Individual

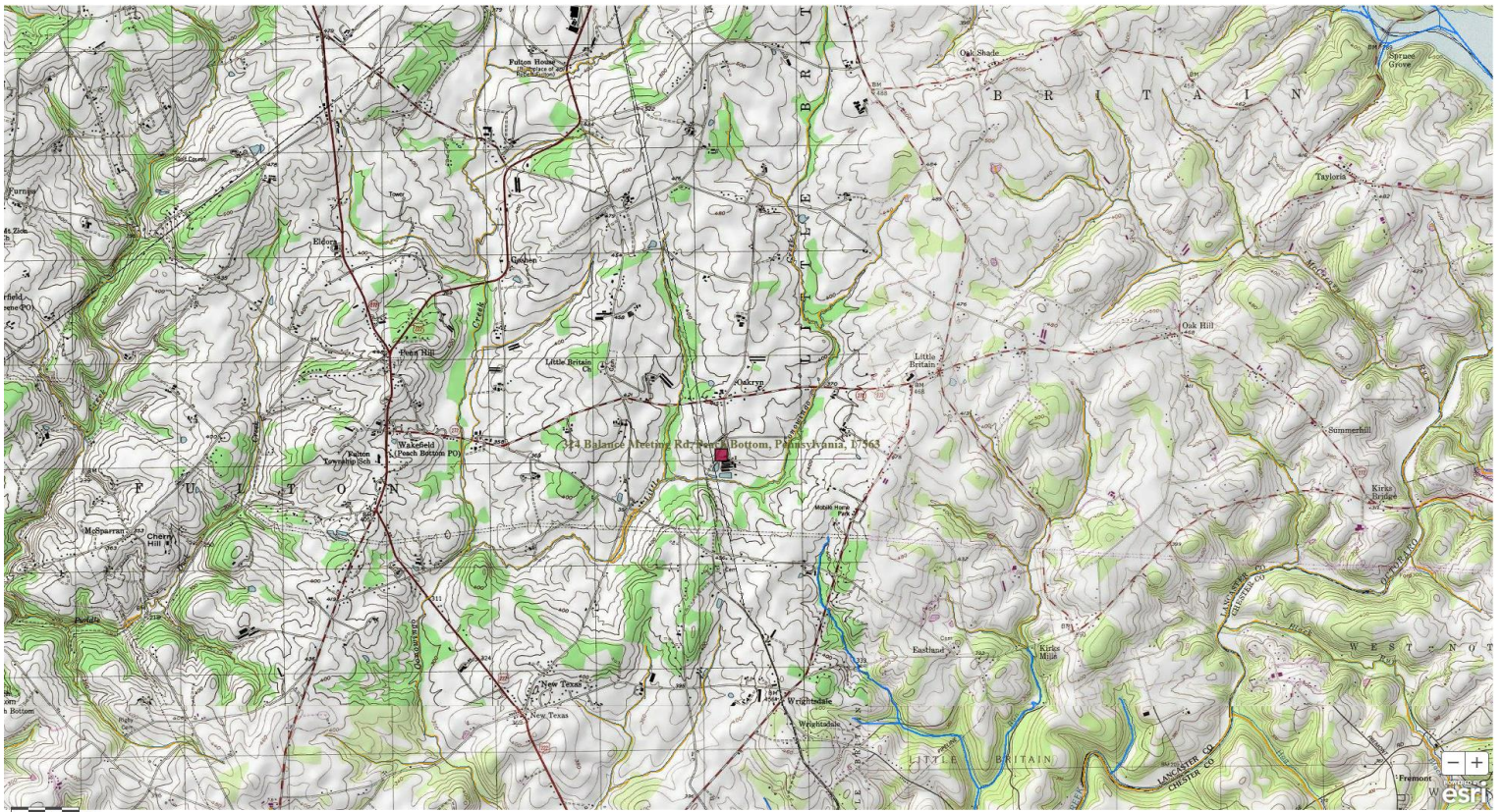
**NPDES PERMIT FACT SHEET  
CAFOs**

Application No. PA0247031  
APS ID 811884  
Authorization ID 1481742

**Applicant and Facility Information**

Applicant Name	<u>Keystone Dairy Ventures LLC</u>	Farm Name	<u>Keystone Dairy Ventures CAFO</u>
Applicant Address	<u>324 Balance Meeting Road</u> <u>Peach Bottom, PA 17563-9507</u>	Farm Address	<u>324 Balance Meeting Road</u> <u>Peach Bottom, PA 17563-9507</u>
Applicant Contact	<u>Andrew Young</u>	Farm Contact	<u>Andrew Young</u>
Applicant Phone	<u>(717) 548-3813</u>	Farm Phone	<u>(717) 548-3813</u>
Client ID	<u>264830</u>	Site ID	<u>608864</u>
SIC Code	<u>0241</u>	Municipality	<u>Little Britain Township</u>
SIC Description	<u>Agriculture - Dairy Farms</u>	County	<u>Lancaster</u>
Date Application Received	<u>April 22, 2024</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>May 10, 2024</u>	WQM App. No.	<u>3603206</u>

Project Description Keystone Dairy Ventures LLC submitted an application for Individual CAFO permit renewal for their existing dairy operation.



Approve	Deny	Signatures	Date
X		<i>Hans D. Shollenberger</i> Hans D. Shollenberger / Project Manager	05/13/2024
X		<i>Scott M Arwood</i> Scott M. Arwood, P.E. / Environmental Engineer Manager	05/13/2024

**Description:**

Keystone Dairy Ventures LLC submitted an application for Individual CAFO permit renewal for their existing dairy operation located in Little Britain Township, Lancaster County. The operation has the following animal population:

Animal Type	Number	AEUs
Holstein Cow	880	1,144.00
Holstein Heifer: 1 -2 yr.	375	337.50
Holstein Calf: 0–1 yr.	375	140.63
	<b>Total AEUs =</b>	<b>1,622.13</b>

The operation is considered a CAO for exceeding 8 AEUs while having an animal density that exceeds 2 AEUs/Acre. The operation is considered a large CAFO for being a CAO that exceeds 300 AEUs, for exceeding 1,000 AEUs, and for exceeding the EPA large CAFO threshold of 700 mature dairy cows, whether milked or dry.

The nearest receiving waters to the home operation are Little Conowingo Creek and UNT to Little Conowingo Creek, both designated for High Quality-Cold Water Fishes and Migratory Fishes (HQ-CWF, MF), located in Watershed 7-K. Little Conowingo Creek is impaired by agriculture siltation organic enrichment, and nutrients as well as habitat modification and alterations. UNT to Little Conowingo Creek is impaired by agriculture siltation organic enrichment, and nutrients.

The nearest receiving water to the satellite Circular Heifer Storage is Conowingo Creek, designated for Cold Water Fishes and Migratory Fishes (CWF, MF), located in Watershed 7-K. Conowingo Creek is impaired by agriculture nutrients and siltation as well as habitat modification and alterations.

Since the operation is located in a High Quality watershed, the Department’s Individual CAFO permit is appropriate.

**Manure/Nutrient Management:**

The current NMP was approved on October 4, 2023, for crop years 2024, 2025, and 2026. There are 661.7 acres available on lands rented by the applicant for manure application according to the NMP, resulting in a density of 2.45 AEUs/acre.

*Manure Group Information:*

Manure Group	Manure Generated Annually	Manure Used on the Farm	Manure Exported (gallons or tons)
Liquid 1 Fall	3,250,000.0 gal	5,751,300.0 gal	0.0
Liquid 1 Fall - uncollected	267.3 tons	267.3 tons	0.0
Liquid 1 Spring	3,250,000.0 gal	6,484,700.0 gal	0.0
Liquid 2 Fall	4,550,000.0 gal	5,197,200.0 gal	0.0
Liquid 2 Spring	4,550,000.0 gal	4,826,800.0 gal	0.0
Solid Fall	175.0 tons	186.0 tons	0.0
Solid Fall - uncollected	44.8 tons	44.8 tons	0.0
Solid Spring	175.0 tons	177.6 tons	0.0

*Exported Manure:*

Name/ Address	Amount and Source of Manure Exported per Season (gallons/ tons)			
	Spring	Summer	Fall	Winter
No manure is exported from this operation.				

No manure is exported from this operation. However, if the NMP were ever updated to include manure exportation, the following requirements would have to be met when transferring manure to other persons:

**40 CFR 122.42(e)(3) - Requirements relating to transfer of manure or process wastewater to other persons.**

Prior to transferring manure, litter, or process wastewater to other persons, Large CAFOs must provide the recipient of the manure, litter or process wastewater with the most current nutrient analysis. The analysis provided must be consistent with the requirements of 40 CFR part 412. Large CAFOs must retain for five years records of the date, recipient name and address, and approximate amount of manure, litter or process wastewater transferred to another person.

**Winter Manure Management:**

Application of manure during the winter period is not approved in the NMP.

This operation’s manure storages will need to meet the following minimum freeboards by December 15<sup>th</sup> of each year to implement the NMP:

- Stage 1 Earthen Lagoon: 9 ft
- Stage 2 Earthen Lagoon: 12.9 ft
- Circular Heifer Storage: 6.6 ft
- Underhouse Calf Pit: 2.3 ft

**Manure Storage Facilities:**

<b>Storage</b>	<b>Type</b>	<b>Dimensions</b>	<b>Freeboard</b>	<b>Usable Capacity</b>
<i>Name</i>	<i>Liquid or solid</i>	<i>Ft x ft x ft</i>	<i>Minimum regulatory</i>	<i>Gallons</i>
Stage 1 Earthen Lagoon	Liquid	300’ x 150’ x 14’	2 ft	2,594,064 gal
Stage 2 Earthen Lagoon	Liquid	400’ x 150’ x 18’	2 ft	4,252,629 gal
Circular Heifer Storage	Liquid	80’ x 12’	2 ft	375,800 gal
Underhouse Calf Pit	Liquid	34’ x 50’ x 12’	0.5 ft	146,234 gal

The Department issued WQM 3603206 on October 21, 2003.

There are no proposed manure storage facilities and no plans for field stacking of manure on this operation.

This farm operates a manure separation system that separates solids from the manure to be recycled as bedding for the cows.

**BMPs Applicable to the Chesapeake Bay TMDL:**

DEP has evaluated the information included in the application materials; as well as the effluent limitations, BMPs, and other requirements included in the draft permit. This would include the approved Act 38 compliant Nutrient Management Plan, which includes Best Management Practices to meet Pennsylvania nutrient and manure management regulations, as well as Nutrient Balance Sheets for manure importers, applicable manure storage and manure spreading setback requirements, and Emergency Response Plan. Applicable Conservation Plans and/or Agricultural Erosion & Sediment Control Plans were also evaluated, which includes Best Management Practices to meet Pennsylvania erosion and sediment control regulations.

The applicant is implementing the following BMPs within the production area:

- Manure Storage Facilities
- Mortality Management (Composting)

There are no NRCS Practice Codes prescribed as BMPs in the approved 2024 to 2026 NMP.

Based upon this evaluation, DEP believes no additional BMPs will be required at this time to meet the goals and requirements of the Chesapeake Bay TMDL and to protect water quality criteria. This determination will be reevaluated through review of self-inspection reporting, annual reporting, and regular compliance inspections.

**Animal Mortality:**

The mortalities are composted onsite with solid manure.

**Animal Concentration Areas (Chapter 102.4a):**

Animal Heavy Use Areas (AHUAs) are designated in the NMP, and will be managed according the provisions of the NMP.

**Chapter 102 E&S (Conservation Plans):**

Agricultural E&S and Conservation Plans have been included and verified to exist for land subjected to plowing and tilling activities.

**Downstream Public Water Supplies:**

The Pennsylvania-Maryland state line is located approximately 6.2 miles downstream of the operation. The nearest downstream public water supply intake is located beyond the state line. This operation is not expected to impact any public water supplies.

**Compliance History:**

There are no open violations for this operation.

**Public Participation:**

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.