

Application Type

Renewal

Facility Type

CAFO

Permit Type

Individual

Application No.

PA0263591

APS ID

817293

Authorization ID

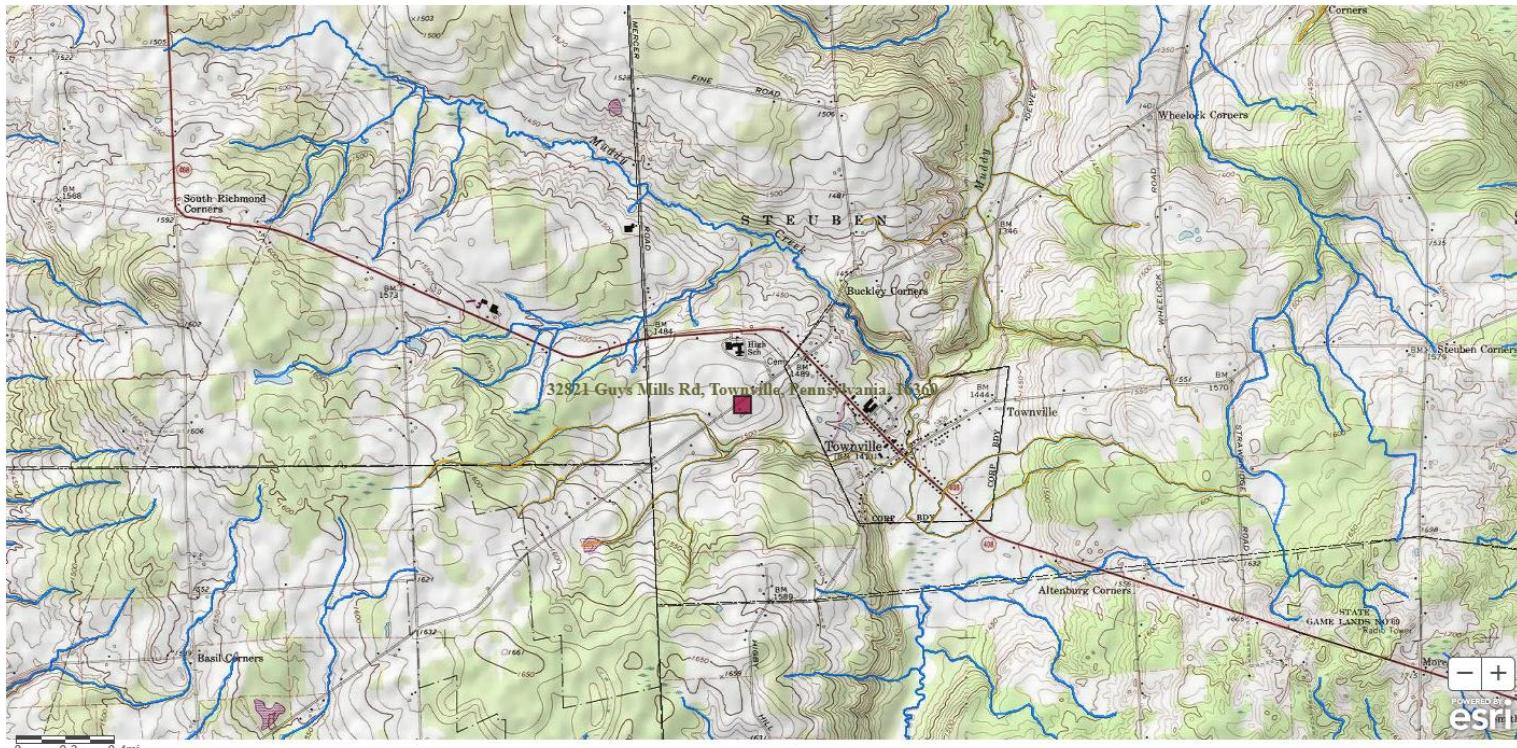
1489224
 NPDES PERMIT FACT SHEET  
CAFOs

## Applicant and Facility Information

Applicant Name	<u>Apple Shamrock Dairy Farms LLC</u>	Farm Name	<u>Apple Shamrock Dairy</u>
Applicant Address	<u>32821 Guys Mills Road</u>	Farm Address	<u>32821 Guys Mills Road</u>
Applicant Contact	<u>Christine Waddell</u>	Farm Contact	<u>Christine Waddell</u>
Applicant Phone	<u>(814) 967-2444</u>	Farm Phone	<u>(814) 967-2444</u>
Client ID	<u>220378</u>	Site ID	<u>725064</u>
SIC Code	<u>0291</u>	Municipality	<u>Steuben Township</u>
SIC Description	<u>Agriculture - General Farms, Primarily Animal</u>	County	<u>Crawford</u>
Date Application Received	<u>June 17, 2024</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>June 28, 2024</u>	WQM App. No.	<u>2013201</u>

Project Description

Apple Shamrock Dairy Farms LLC submitted an Individual CAFO permit renewal application for their existing/expanding dairy operation.



Approve	Deny	Signatures	Date
<input checked="" type="checkbox"/>		<i>Hans D. Shollenberger</i> Hans D. Shollenberger / Project Manager	04/09/2025
<input checked="" type="checkbox"/>		<i>Scott M Arwood</i> Scott M. Arwood, P.E. / Environmental Engineer Manager	04/10/2025

**Description:**

Apple Shamrock Dairy Farms LLC submitted an Individual CAFO permit renewal application for their existing/expanding dairy operation located in Crawford County, Steuben Township. The previous CAFO permit for this operation was issued for 2,304.75 AEUs. With this renewal/expansion the operation will be expanding to the following animal population:

Animal Type	Number	AEUs
Holstein Lactating Cow	1,600	2,320.00
Holstein Dry Cow	400	580.00
Holstein Heifer:1 -2 yr.	450	450.00
Holstein Calf: 0-1 yr.	450	189.00
<b>Total AEUs =</b>		<b>3,539.00</b>

The operation is not considered a CAO since the animal density does not exceed 2 AEUs/Acre. The operation is considered a large CAFO for exceeding 1,000 AEUs and for exceeding the EPA large CAFO threshold of 700 mature dairy cows, whether milked or dry.

The nearest potential receiving stream for the home site Earthen Lagoons is Tributary 53352 to Muddy Creek, designated for High Quality-Cold Water Fishes (HQ-CWF), located in Watershed 16-A. The stream is impaired by highway, road, and bridge runoff siltation.

The nearest potential receiving stream for the home site HDPE Lagoons is Tributary 53357 of Muddy Creek, designated for High Quality-Cold Water Fishes (HQ-CWF), located in Watershed 16-A. The stream is impaired by highway, road, and bridge runoff siltation.

The nearest potential receiving stream for the satellite circular manure storage is Marsh Run, designated for Cold Water Fishes (CWF), located in Watershed 16-E. The stream is not impaired by Department Standards.

Since the operation is located in a High-Quality Watershed, the Department's Individual CAFO permit is appropriate for this operation. The operation is not located within the Chesapeake Bay Watershed.

**Manure/Nutrient Management:**

The current approved NMP (planned for crop year 2024) was approved on May 13, 2024. The 2025 crop year Expansion NMP was acknowledged and accepted by Crawford County Conservation District via a letter dated October 18, 2024. There are 3,410.0 acres available on lands owned and rented by the applicant for manure application according to the NMP, resulting in a density of 1.04 AEUs/acre.

**Manure Group Information:**

Manure Group	Manure Generated Annually	Manure Used on the Farm	Manure Exported (gallons or tons)
Sand Lane	16,382,117.0 gal	16,399,506.4 gal	0.0
Bedded Pack	3,273.4 tons	3,326.6 tons	0.0

**Exported Manure:**

Name/ Address	Amount and Source of Manure Exported per Season (gallons/ tons)			
	Spring	Summer	Fall	Winter
This operation does not export manure.				

If the operation were to ever add manure exportation to their NMP, the following requirements would need 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 approved in the NMP.

Manure storage facilities should have adequate freeboard on December 15 to implement the NMP.

**Manure Storage Facilities:**

<b>Storage</b>	<b>Type</b>	<b>Dimensions</b>	<b>Freeboard</b>	<b>Usable Capacity</b>
Stage 1 HDPE Lined Storage	Liquid	400' x 100' x 15'	2 ft	1,483,271 gallons
Stage 2 HDPE Lined Storage	Liquid	400' x 100' x 15'	2 ft	1,702,589 gallons
HDPE-lined Storage	Liquid	230' x 320' x 15'	2 ft	4,407,012 gallons
Earthen Lagoon (Concrete Bottom)	Liquid	200' x 100'	2 ft	1,000,000 gallons
Earthen Lagoon	Liquid	150' x 80'	2 ft	200,000 gallons
Satellite Concrete Circular Storage	Liquid	16' x 126'	2 ft	1,305,841 gallons

Apple Shamrock Dairy Farms LLC was issued WQM 2013201 A-1 on December 1, 2023 for the construction of the satellite concrete circular storage. The concrete circular storage construction is complete, and the post construction PE certification was signed and stamped by Matthew Brubaker (PE074213) on November 21, 2024.

There are no plans to field stack manure on this operation.

**Animal Mortality:**

Mortalities are composted in the mortality compost area behind CMU Z3. The compost area is maintained with frequent stirring.

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

The operation does not have Animal Heavy Use Areas (AHUAs).

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

Conservation Plans have been included and verified to exist for land subjected to plowing and tilling activities. Some BMPs in the plans include Fence (382), Heavy Use Area Protection (561), Nutrient Management (590), Pond Sealing or Lining, Geomembrane or Geosynthetic Clay Liner (521), Pumping Plant (533), Waste Separation Facility (632), and Waste Transfer (634).

**Downstream Public Water Supplies:**

There is a Transient Noncommunity public water supply system approximately 1 mile downstream from the dairy operation on the unnamed tributary to Muddy Creek in Townville, PA. This operation is not expected to impact any public water supplies.

**NPDES Permit Fact Sheet**  
**NPDES Permit No. PA0263591**  
**Apple Shamrock Dairy**

**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.