



Connecticut Department of
Energy & Environmental Protection
 Bureau of Materials Management & Compliance Assurance
 Water Permitting & Enforcement Division

Dept of Energy & Environmental Protection
 Central Permit Processing Unit
NOV 30 2023

RECEIVED BY _____

General Permit Registration Form for Concentrated Animal Feeding Operations (CAFO)

Please complete this form in accordance with the instructions to ensure the proper handling of your registration. Please print or type unless otherwise noted. A Comprehensive Nutrient Management Plan (CNMP) and the Registration Fee must be submitted with this Registration.

CPPU USE ONLY	
App #:	<u>202309087</u>
Doc #:	<u>2020868</u>
Check #:	<u>10015846-\$500</u>
Program: Agriculture Permits	

Part I: Registration Type and Fee Information

Check all appropriate boxes to identify the registration type:	Fees:
<input type="checkbox"/> Small CAFO	
<input type="checkbox"/> New registration	\$100.00 [#2358]
<input type="checkbox"/> Modification of Registration and/or CNMP: Permit No. _____	\$0 [#2361]
<input type="checkbox"/> Medium CAFO	
<input type="checkbox"/> New registration	\$250.00 [#2359]
<input type="checkbox"/> Modification of Registration and/or CNMP: Permit No. _____	\$0 [#2361]
<input checked="" type="checkbox"/> Large CAFO	
<input checked="" type="checkbox"/> New registration	\$500.00 [#2360]
<input type="checkbox"/> Modification of Registration and/or CNMP: Permit No. _____	\$0 [#2361]
Town Location: <u>New London County</u>	
<p><i>This registration will not be processed without the fee. The fee shall be non-refundable and shall be paid by check or money order to the Department of Energy and Environmental Protection or by such other method as the commissioner may allow.</i></p>	

Part II: Surrender or Withdrawal of Existing Permit or Application

1. If you currently hold an individual permit for the discharge(s) you are registering, you must request to surrender the individual permit to be authorized under the subject general permit.
 - a. Do you request to surrender your individual permit? Yes No
 - b. If yes, please provide your individual permit number:

2. If you currently have a pending individual permit application for discharge(s) you are registering, you must withdraw your individual permit application to be authorized under the subject general permit.
 - a. Do you request to withdraw your individual permit application? Yes No
 - b. If yes, please provide your application number:

Part III: Registrant Information

If a registrant is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, registrant's name shall be stated **exactly** as it is registered with the Secretary of State. Please note, for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of State's database. ([onlineBusinessSearch \(ct.gov\)](http://onlineBusinessSearch.ct.gov))

If a registrant is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).

If there are any changes or corrections to your company/facility or individual mailing or billing address or contact information, please complete and submit the [Request to Change Company/Individual Information](#) to the address indicated on the form. If there is a change in name of the entity holding a DEEP license or a change in ownership, contact the Office of Planning and Program Development (OPPD) at DEEP.OPPD@ct.gov . For any other changes, contact the specific program from which you hold a current DEEP license.

1. **Registrant name:** Hillandale Farms Conn, LLC

Mailing Address: 17 Schwartz Road

City/Town: Bozrah

State: CT

Zip Code: 06335

Business Phone: (860) 885-6500

ext.:

Contact Person: Steve Vendemia

Phone: (860) 885-6555 ext.

*E-mail: svendemia@hillandalefarms.com

*By providing this e-mail address you are agreeing to receive official correspondence from DEEP, at this electronic address, concerning the subject registration. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify DEEP if your e-mail address changes.

2. **Billing contact name (if different than the registrant):**

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.:

Contact Person:

Phone:

ext.

*E-mail:

Part III: Registrant Information (continued)

3. Primary contact for departmental correspondence and inquiries, if different than the registrant:

Name: Ed Hoffman

Mailing Address: 17 Schwartz Road

City/Town: Bozrah

State: CT

Zip Code: 06334

Business Phone: (860) 885-6595

ext.:

Contact Person: Ed Hoffman

Phone:

ext.

*E-mail: ehoffman@hillandalefarms.com

4. Owner of the property on which the CAFO is located, if different than the registrant:

Legal Name of Property Owner: Hillandale Gettysburg LP

Mailing Address: 3910 Oxford Road

City/Town: Gettysburg

State: PA

Zip Code: 17325

Business Phone: (717) 416-1300

ext.:

Contact Person: Kevin Jackson

Phone: (717) 416-1300 ext.

*E-mail: kjackson@hillandalefarms.com

5. Engineer(s) or consultant(s) employed or retained to assist in preparing this registration or in designing or constructing the activity:

Firm Name:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.:

Attorney:

Phone:

ext.

*E-mail:

Check here if additional sheets are necessary, and label and attach them.

Part IV: Pre-Application Meeting

If a pre-application meeting was held concerning the subject activity, provide the following:

DEEP Staff Name: Emily Marshall / Audra Dickson Pre-Application Meeting Date: 11/2/2023

Part V: Site Information

1. CAFO NAME:

Primary Address of CAFO: 58 Brush Hill Road

City/Town: Bozrah

State: CT

Zip Code: 06334

*Latitude: 41°, 34', 21' N

*Longitude: 72°, 09', 31' W

Watershed:

*Lat/Long of entrance of the production area. 41°, 34', 21' N / 72°, 09', 31' W

Part V: Site Information (continued)

2. **INDIAN LANDS:** Is or will the CAFO be located on federally recognized Indian lands? Yes No
3. **COASTAL BOUNDARY:** Is there any activity included in, or proposed to be implemented by the CAFO that will be located within the coastal boundary as delineated on DEEP approved coastal boundary maps? Yes No

If yes, your Comprehensive Nutrient Management Plan must contain provisions to assure compliance with Connecticut's Coastal Management Act (CCMA), sections 22a-92 of the Connecticut General Statutes (CGS), as amended and will not cause adverse impacts to coastal resources as defined in CGS section 22a-93.

Information on the coastal boundary is available at www.cteco.uconn.edu/map_catalog.asp (Select the town and then select coastal boundary. If the town is not within the coastal boundary you will not be able to select the coastal boundary map.) or the local town hall or on the "Coastal Boundary Map" available at the DEEP Store (860-424-3555 or deep.store@ct.gov).

4. **NATURAL DIVERSITY DATA BASE (NDDDB) - ENDANGERED OR THREATENED SPECIES:** According to the most current "State and Federal Listed Species and Natural Communities Map", is there any activity included in, or proposed to be implemented by, your CAFO in the production area, that will be located within an area identified as a habitat for endangered, threatened or special concern species?
 Yes No Date of Map:

If yes, complete and submit a Request for NDDDB State Listed Species Review through DEEP's ezFile Portal by navigating to DEEP's website for NDDDB Environmental Reviews, prior to submitting this registration. Please note NDDDB review generally takes 4 to 6 weeks and may require the registrant to produce additional documentation, such as ecological surveys, which must be completed prior to submitting this registration. A copy of the NDDDB Determination response letter that has not expired *must* be submitted with this completed registration. Include a copy of any mitigation measures developed for this activity and approved by NDDDB. Be aware that you must renew your NDDDB Determination if it expires before project work commences. For more information visit State Endangered Species Act CGS section 26-310(a), DEEP's website for NDDDB Environmental Reviews or contact the NDDDB at deep.nddbrequest@ct.gov.

5. **AQUIFER PROTECTION AREAS:** Is the CAFO or any portion of the CAFO located within a mapped Aquifer Protection Area, as defined in CGS section 22a-354b? Yes No

If yes, the CAFO owner or operator shall take all necessary precautions to prevent spills or other accidental releases of chemicals or agricultural wastes to the ground and/or water. If a spill or accidental release of chemicals or agricultural wastes occurs, the CAFO owner or operator is required to report the spill to CT DEEP's 24-Hour Emergency Spill Reporting line at 860-424-3338. For more information on the Aquifer Protection Area Program visit the DEEP website at Aquifer Protection or contact the program at deep.aquiferprotection@ct.gov.

6. **CONSERVATION OR PRESERVATION RESTRICTION:** Is there any activity included in, or proposed to be implemented by the CAFO that will be located within a conservation or preservation restriction area?
 Yes No

If yes, your Comprehensive Nutrient Management Plan must contain provisions to assure compliance with CGS section 47-42d where proof of written notice of this registration to the holder of such restriction or a letter from the holder of such restriction verifying that this registration is in compliance with the terms of the restriction, must be-kept on site.

Part VI: Description of CAFO Discharges and Operations

1. In the table below, list each discharge that is the subject of this application. For renewals of existing permits, label each discharge by the same discharge serial number (DSN) stated in the previous permit and provide the existing permit number. For new permits, label each discharge to a surface water consecutively starting with DSN 101 and for discharges to groundwater, label each discharge consecutively starting with DSN 301.

Discharge serial number (DSN) and existing permit number, if applicable	Source(s) of wastewater contributing to the discharge	Name of receiving surface waterbody or groundwater surface watershed	Surface water or groundwater quality classification	Geographical description of location of discharge point (e.g., 20 ft. north from Bear Bridge)

2. Provide a brief general description of the CAFO operation and each existing or proposed discharge. For proposed new discharges, provide a timeline for initiation of the discharge(s) as well as a summary of environmental impact of the proposed discharge. _____

Part VII: Activity Specific Information

1. TYPE AND NUMBER OF ANIMALS:		
Animals	No. in Open Confinement	No. Housed under Roof
<input type="checkbox"/> Mature Dairy Cows		
<input type="checkbox"/> Dairy Heifers		
<input type="checkbox"/> Veal Calves		
<input type="checkbox"/> Cattle (not dairy or veal calves)		
<input type="checkbox"/> Swine (55 lbs. or over)		
<input type="checkbox"/> Swine (under 55 lbs.)		
<input type="checkbox"/> Horses		
<input type="checkbox"/> Sheep or Lambs		
<input type="checkbox"/> Turkeys		
<input type="checkbox"/> Chickens (Broilers)		
<input checked="" type="checkbox"/> Chickens (Layers)		955,656
<input type="checkbox"/> Ducks		
<input type="checkbox"/> Other: Specify		

Part VII: Activity Specific Information (continued)

2. MANURE, DIGESTATE, LITTER AND/OR OTHER WASTEWATER PRODUCTION AND USE:

a. How much manure, digestate, litter or other wastewater is generated annually by the CAFO?

Manure	7,000	tons or gallons (specify)
Digestate		tons (solids)
		gallons (liquids)
Litter		tons
Other Wastewater Specify:		gallons

b. Is manure, digestate, litter or other wastewater generated at the CAFO land applied? Yes No

If yes, indicate the total number of acres under the control of the registrant that are available for application:
 _____ acres

c. Check all land application best management practice that are being implemented:

- Buffers
- Infiltration field
- Setbacks
- Grass filter
- Conservation tillage
- Terrace
- Constructed wetlands
- Other (specify):

d. How much manure, digestate, litter or other wastewater produced by the CAFO will be transferred to other persons annually?

Manure	7,000	tons or gallons (specify)
Digestate		tons (solids)
		gallons (liquids)
Litter		tons
Other Wastewater Specify:		gallons

e. Describe alternative use(s) of manure, digestate, litter or other wastewater, if any:

Part VII: Activity Specific Information (continued)

3. TYPE OF CONTAINMENT, STORAGE AND CAPACITY:		
Type of Storage	Total Number of Days of Storage	Total Capacity (specify gallons or tons)
<input type="checkbox"/> Anaerobic Lagoon		
<input type="checkbox"/> Storage Lagoon		
<input type="checkbox"/> Aboveground Storage Tanks		
<input type="checkbox"/> Belowground Storage Tanks		
<input checked="" type="checkbox"/> Roofed Storage Shed	please see attached list	please see attached list
<input type="checkbox"/> Concrete Pad		
<input type="checkbox"/> Under Floor Pit		
<input type="checkbox"/> Other: Specify:		
<p>Total number of acres exposed to precipitation that drain to or are collected in the containment and storage structure(s) reported in the table above: 0.05 acres</p>		
<p>4. COMPREHENSIVE NUTRIENT MANAGEMENT PLAN:</p> <p>a. Has the registrant attached a Comprehensive Nutrient Management Plan? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>b. Is the registrant implementing the Comprehensive Nutrient Management Plan? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>c. Has the Comprehensive Nutrient Management Plan been reviewed and signed by a Certified Agricultural Planning Specialist? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>d. When was the last review or revision of the Comprehensive Nutrient Management Plan? Date:</p> <p>e. If not land applying, describe alternative use(s) of manure, digestate, litter, and/or wastewater:</p>		

Part VIII: Supporting Documentation

Check the applicable box below for each attachment being submitted with this registration form. When submitting any supporting documents, please label the documents as indicated in this part (e.g., Attachment A, etc.) and be sure to include the registrant's name as indicated on this registration form.

- Attachment A: Coastal Consistency Review Form (DEEP-APP-004), if applicable.
- Attachment B: A copy of the NDDDB Determination response letter that has not expired, if applicable. Include a copy of any mitigation measures developed for this activity and approved by NDDDB. Do *not* submit any NDDDB Preliminary Site Assessments with your registration. Be aware that you must renew your NDDDB Determination if it expires before project work commences.
- Attachment C: Conservation or Preservation Restriction Information, in applicable.
- Attachment D: A topographic map of the geographic area in which the CAFO is located showing the specific location of the production area and one mile beyond the property boundaries of the CAFO depicting the facility, each discharge location, wells, springs, surface water bodies and drinking water wells listed in public records or otherwise known to the registrant in the map area.
- Attachment E: Comprehensive Nutrient Management Plan
- Attachment F: NetDMR Subscriber Agreement

Part IX: Registrant Certification

The registrant must sign this part. A registration will be considered insufficient without this certification.

"I have personally examined and am familiar with the information submitted in this registration, including all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief.

I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.

I certify that this general permit registration is on complete and accurate forms as prescribed by the commissioner without alteration of the text;

I also certify under penalty of law that I have read the General Permit for Concentrated Animal Feeding Operations issued by the Commissioner on December 6, 2022; that the discharges which are the subject of this registration are eligible for authorization under such permit; and that I will comply with all schedules and applicable requirements of such permit, including the development and implementation of a site-specific Comprehensive Nutrient Management Plan, reviewed and signed by a Certified Agricultural Planning Specialist."

Stephen J Vendemia

11/27/2023

Signature of Registrant

Date

Stephen Vendemia

President

Name of Registrant (print or type)

Title (if applicable)

Part X: Preparer Certification

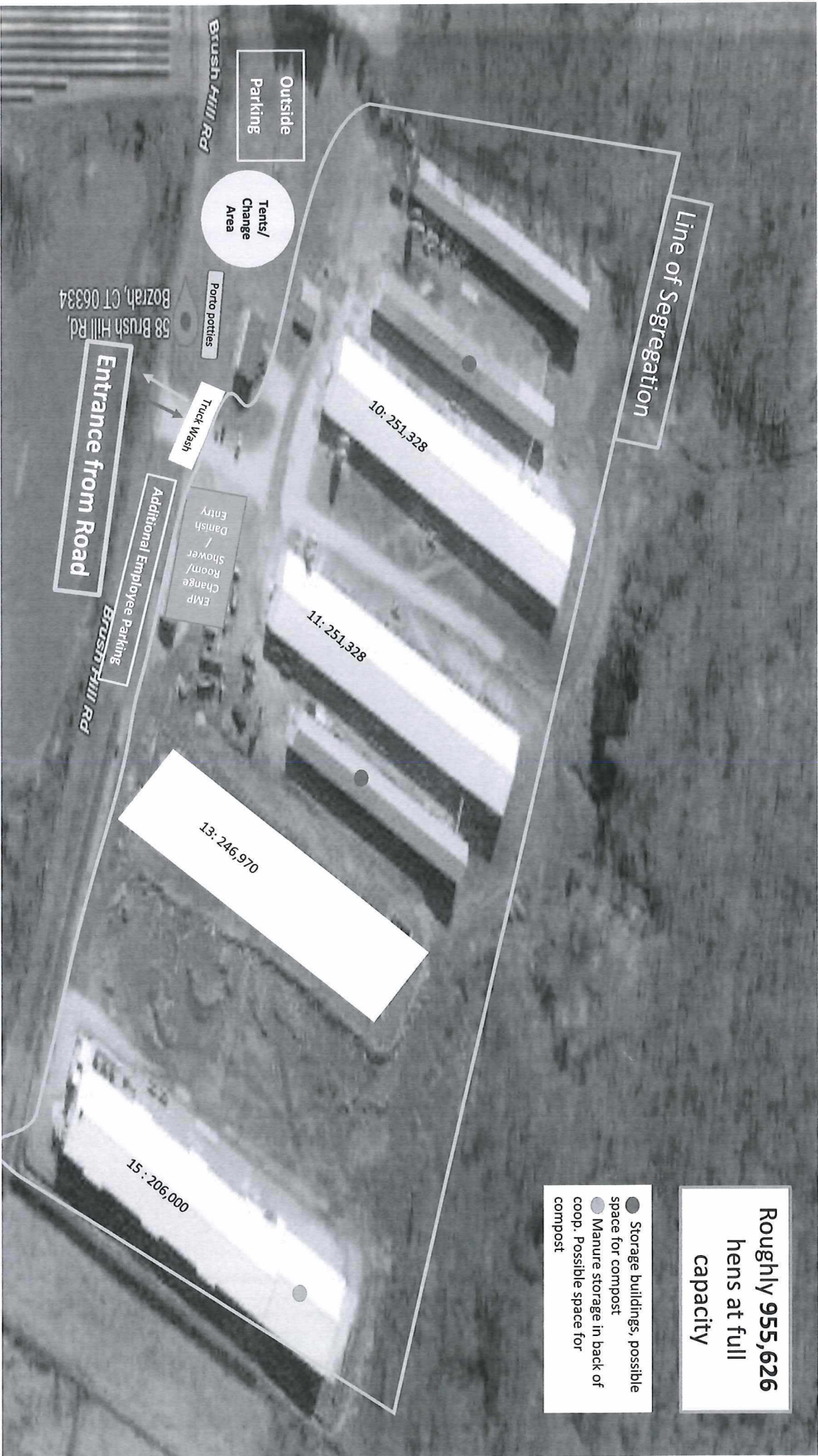
The individual(s) responsible for actually preparing the registration must sign this part. A registration will be considered incomplete unless all required signatures are provided. If the registrant is the preparer, please mark N/A in the spaced provided for the preparer.

<p>“I have personally examined and am familiar with the information submitted in this registration, including all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief.</p> <p>I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.</p> <p>I certify that this general permit registration is on complete and accurate forms as prescribed by the commissioner without alteration of the text;</p> <p>I also certify under penalty of law that I have read the General Permit for Concentrated Animal Feeding Operations issued by the Commissioner on December 6, 2022 and that the discharges which are the subject of this registration are eligible for authorization under such permit.”</p>	
<p><i>Ed Hoffman</i></p> <hr/> <p>Signature of Preparer (if different than above)</p>	<p>11/27/2023</p> <hr/> <p>Date</p>
<p>Edward Hoffman</p> <hr/> <p>Name of Preparer (print or type)</p>	<p>Vice President</p> <hr/> <p>Title (if applicable)</p>
<p><input type="checkbox"/> Check here if additional signatures are required. If so, please reproduce this sheet and attach signed copies to this sheet. Signatures of any person preparing any report or parts thereof required in this registration (i.e., professional engineers, surveyors, soil scientists, consultants, etc.) must be included.</p>	

This completed registration form and all supporting materials (along with the fee) are to be submitted to:

Central Permit Processing Unit
 Department of Energy and Environmental Protection
 79 Elm Street
 Hartford, CT 06106-5127

An electronic copy of this registration and all attachments must also be submitted to: CAFO.Coordinator@ct.gov



**Roughly 955,626
hens at full
capacity**



- Storage buildings, possible space for compost
- Manure storage in back of coop. Possible space for compost

Natural Diversity Data Base

Areas

BOZRAH, CT

June 2023

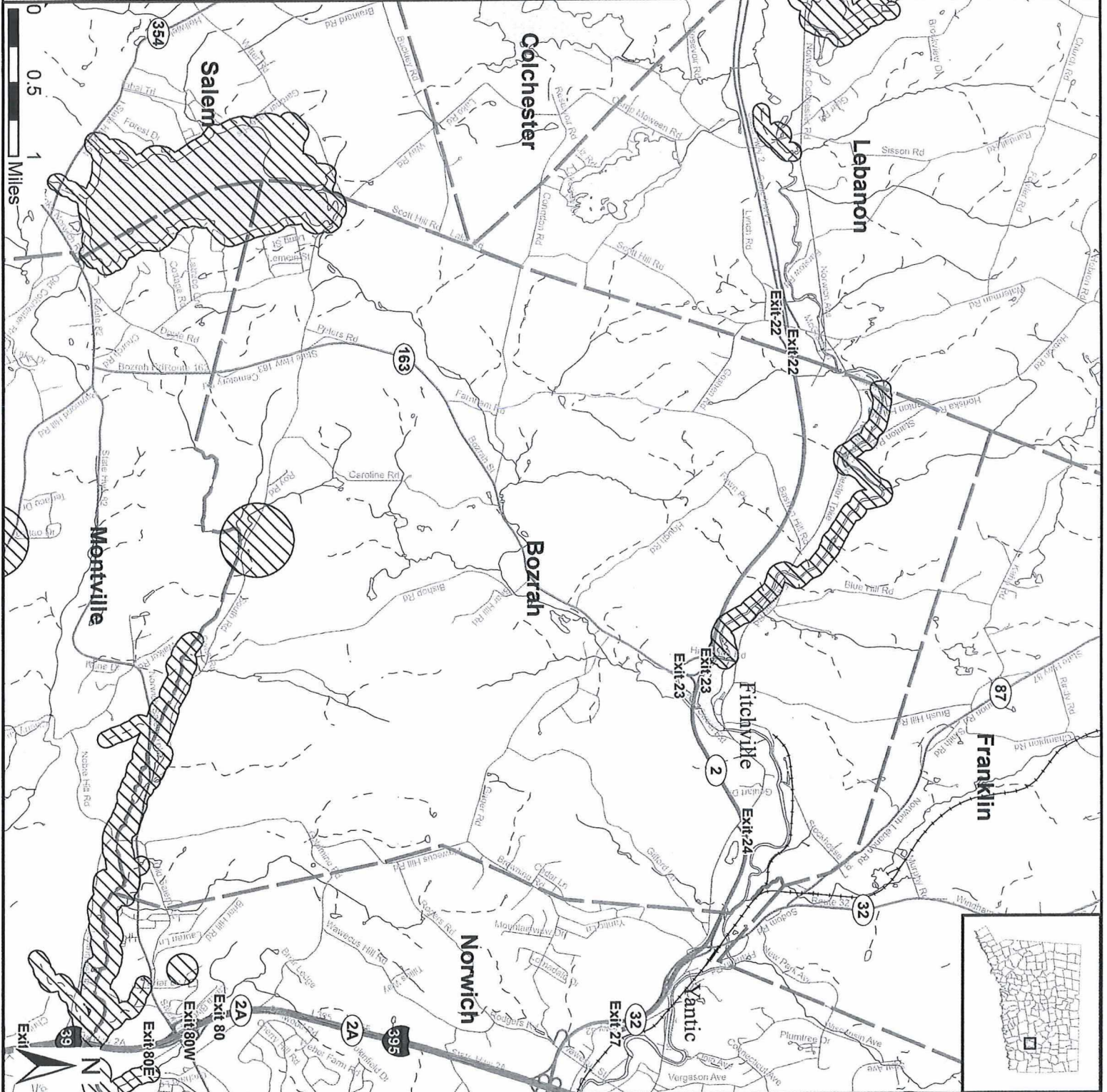
-  State and Federal Listed Species
-  Critical Habitat
-  Town Boundary

NOTE: This map shows known locations of State and Federal Listed Species and Critical Habitats. Information on listed species is collected and compiled by the Natural Diversity Data Base (NDDDB) from a variety of data sources. Exact locations of species have been buffered to produce the generalized locations.

This map is intended for use as a preliminary screening tool for conducting a Natural Diversity Data Base Review Request. To use the map, locate the project boundaries and any additional affected areas if the project is within a hatched area there may be a potential conflict with a listed species. For more information, use DEEP ezFile <https://efilings.deep.ct.gov/DEEPportal/> to submit a Request for Natural Diversity Data Base State Listed Species Review or Site Assessment. More detailed instructions are provided along with the request form on our website. <https://portal.ct.gov/deep-nddrequest>

Use the CTECO Interactive Map Viewers at <http://cteco.uconn.edu> to more precisely search for and locate a site and to view aerial imagery with NDDDB Areas.

QUESTIONS: Department of Energy and Environmental Protection (DEEP)
79 Elm St, Hartford, CT 06106
email: deep.nddrequest@ct.gov
Phone: (860) 424-3011



Connecticut Comprehensive Nutrient Management Plan

(Format v2.1)

Prepared For

Hillandale Farms Conn, LLC
c/o Steve Vendemia
17 Schwartz Road
Bozrah, CT 06334
860-885-6555

Brush Hill Farm
58 Brush Hill Road
Bozrah, CT 06334

Plan Period:
5/2024 – 5/2029

Plan written or revised:
2/8/2024

Prepared By
Jedd Moncavage
TSP#: 03-2022
TeamAg Inc.
120 Lake Street
Ephrata, PA 17522
717-721-6795





Comprehensive Nutrient Management Plan (CNMP) (Version 3, 8/17/2016 Format)

The Comprehensive Nutrient Management Plan (CNMP) is an important part of the conservation management system (CMS) for your Animal Feeding Operation (AFO). This CNMP documents the planning decisions and operation and maintenance information for the AFO.

Farm/Facility: Hillandale Farms Conn, LLC – Brush Hill
c/o Steve Vendemia
58 Brush Hill Road
Bozrah, CT 06334
860-885-6595

Owner/Operator: Hillandale Farms Conn, LLC
c/o Steve Vendemia

Plan Period: May 2024 - Apr 2029

Certified Comprehensive Nutrient Management Plan (CNMP) Planner

As a Certified Comprehensive Nutrient Management Plan (CNMP) Planner, I certify that I have reviewed the *Comprehensive Nutrient Management Plan* and that the elements of the document are technically compatible, reasonable and can be implemented.

Signature: Jedd Moncavage Date: 2/22/2024
Name: Jedd Moncavage, CPSS
Title: VP, TeamAg Inc. TSP Certification Credentials:03-2022

Conservation District (Optional)

As a Conservation District employee, I have reviewed the *Comprehensive Nutrient Management Plan* and concur that the plan meets the District's conservation goals.

Signature: _____ Date: _____
Name: _____
Title: _____

Owner/Operator

As the owner/operator of this CNMP, I, as the decision maker, have been involved in the planning process and agree that the items/practices listed in each element of the CNMP are needed. I understand that I am responsible for keeping all necessary records associated with implementation of this CNMP. It is my intention to implement/accomplish this CNMP in a timely manner as described in the plan.

Signature: Steve Vendemia Date: 3-26-24
Name: Steve Vendemia - Hillandale Farms Conn, LLC

Table of Contents

Section 1. Farmstead (Production Area)

- 1.1. Maps of Farmstead, Existing and Planned Conservation Practices
- 1.2. Farmstead Conservation Practices – Record of Decisions
- 1.3. Farmstead Conservation Practices – Implementation Requirements
- 1.4. Animal Inventory
- 1.5. Manure Storage Information
- 1.6. Planned Manure Exports
- 1.7. Planned Manure Imports
- 1.8. Planned Internal Transfers of Manure
- 1.9. Brief Description of or Additional Information about Animal Feeding Operation (Optional)

Section 2. Crop and Pasture (Land Treatment)

- 2.1. Maps of Fields, Soils, Application Setbacks, Existing and Planned Crop and Pasture Conservation Practices
- 2.2. Crop and Pasture Conservation Practices – Record of Decisions
- 2.3. Crop and Pasture Conservation Practices – Implementation Requirements
- 2.4. Predicted Soil Erosion

Section 3. Nutrient Management Plan (590)

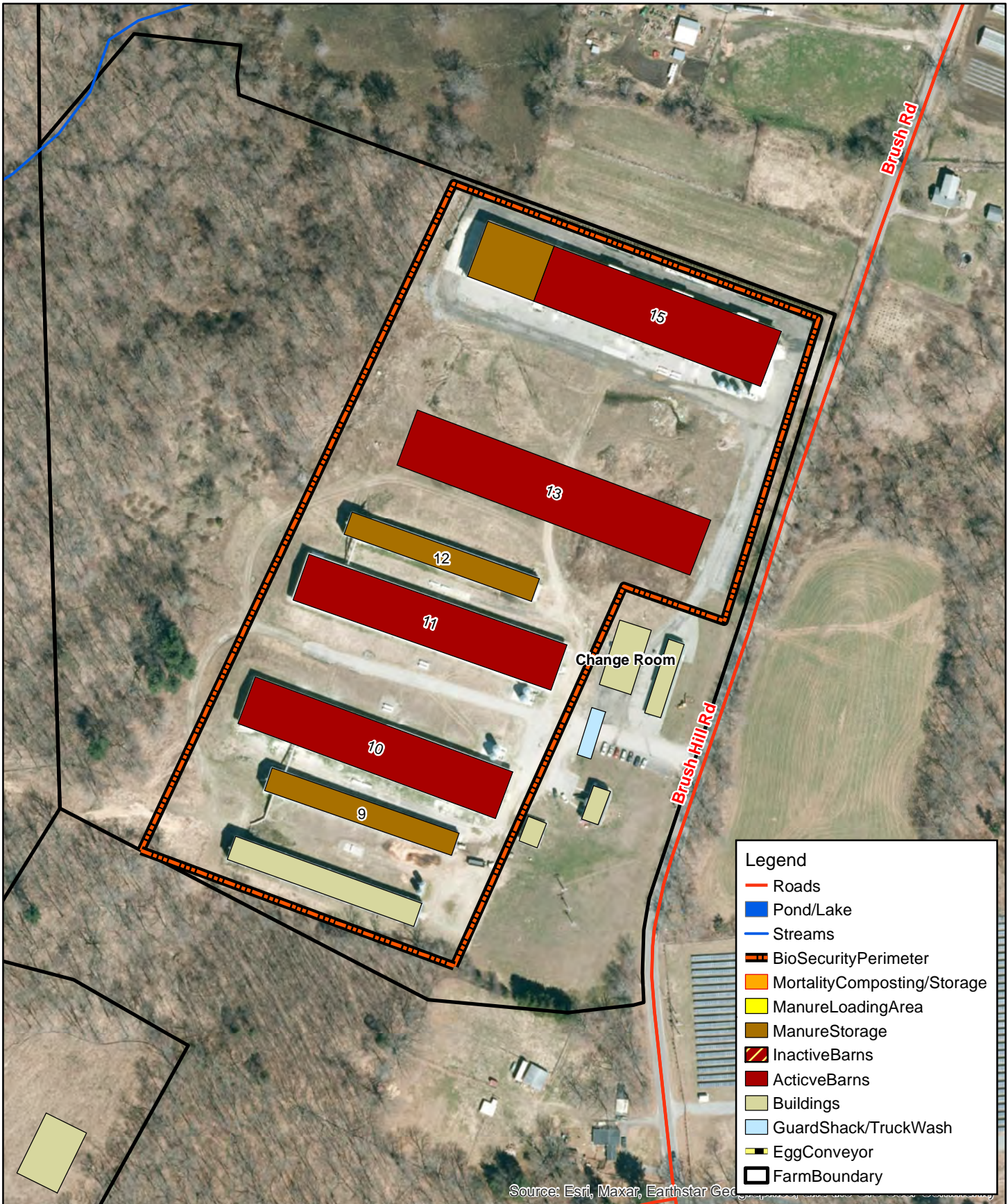
- 3.1. Nitrogen and Phosphorus Risk Analyses Results
- 3.2. Manure Application Setback Distances
- 3.3. Soil Test Result Data
- 3.4. Manure Nutrient Analyses
- 3.5. Planned Crops and Fertilizer Recommendations
- 3.6. Planned Nutrient Applications
- 3.7. Field Nutrient Balance
- 3.8. Manure Inventory Annual Summary (Optional)
- 3.9. Fertilizer Material Annual Summary (Optional)
- 3.10. Plan Nutrient Balance

Section 4. Record Keeping

Section 1. Farmstead (Production Area)

1.1. Maps of Existing and Planned Farmstead Conservation Practices

Hillandale Farms Conn, LLC - Brush Hill Facility Map

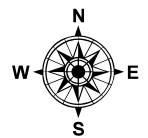
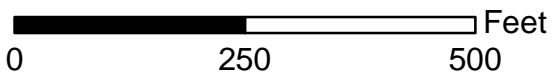


Source: Esri, Maxar, Earthstar Geo

- Legend**
- Roads
 - Pond/Lake
 - Streams
 - BioSecurityPerimeter
 - MortalityComposting/Storage
 - ManureLoadingArea
 - ManureStorage
 - InactiveBarns
 - ActiveBarns
 - Buildings
 - GuardShack/TruckWash
 - EggConveyor
 - FarmBoundary



Date: 5/2/2024



1.2. Farmstead Conservation Practices -- Record of Decisions

This is an existing facility. Pullets are confined 100% of the time within the barns. All manure is handled on a belted manure system that directs manure to enclosed manure storage buildings. The manure remains in the roofed storage structure until it is loaded onto a tarped truck and exported off the operation.

Mortalities are removed from the barns daily and composted in sealed bins or in the manure storage buildings. The composting process is monitored by temperature and turned as needed to ensure complete composting.

There is no egg processing wash water at this facility

There are no resource concerns at this facility.

1.3. Farmstead Conservation Practices – Implementation Requirements

Waste Storage Facility (NRCS313)

A waste storage impoundment made by constructing a pond (embankment and/or excavated pit or dugout), or by fabricating a structure to temporarily store wastes such as manure, wastewater, and contaminated runoff as a storage function component of an agricultural waste management system. This practice must be designed and installed to NRCS standards and specifications.

Manure is stored in 2 barns that are used for manure storage and 1 attached manure storage.

Structure ID	Dimensions	Storage Volume (cuft)	Storage Volume (tons)
Barn 9	310ft x 38ft x 4ft	58,101	870 tons (30lbs/cuft)
Barn 12	310ft x 38ft x 4ft	58,101	870 tons (30lbs/cuft)
Barn 15 Shed	110ft x 90 x 10ft	103,311	1,550 tons (30lbs/cuft)

Mortality Composting Facility (NRCS317)

A structure or device to contain and facilitate an aerobic microbial ecosystem for the decomposition of manure and/or other organic material into a final product sufficiently stable for storage, on farm use and application to land as a soil amendment.

Time, temperature, and turning the compost materials is critical, and if not carried out properly the composted materials may have limited uses.

Mortalities are composted in static piles that are turned every 3 weeks. Temperature is monitored and maintained between 110-150°F

All NRCS conservation practices shall be installed, operated and maintained according to NRCS conservation practice standards and associated technical specifications.
--

1.4. Animal Inventory

Animal Group	Type or Production Phase	Number of Animals ^a	Average Weight (lbs)	Confinement Period	Manure Collected (%) ^b	Manure Storage
Barn 10	Pullet	251,343	1.5	May Early - Apr Late	100	Barn 9
Barn 11	Pullet	251,343	1.5	May Early - Apr Late	100	Barn 12
Barn 13	Pullet	246,970	1.5	May Early - Apr Late	100	Barn 12
Barn 15	Pullet	206,000	1.5	May Early - Apr Late	100	Barn 15 Shed

a. The average number of animals present in the production facility at any one time.

b. If manure collected is less than 100%, this indicates that the animals spend a portion of the day outside of the production facility or the production facility is unoccupied one or more times during the confinement period.

1.5. Manure Storage Information

Storage ID	Type of Storage	Pumpable or Spreadable Capacity	Annual Manure Collected	Maximum Days of Storage
Barn 15 Shed	Dry stack	1,550 tons	1,509 tons	375
Barn 9	Dry stack	870 tons	3,650 tons	87
Barn 12	Dry stack	870 tons	1,841 tons	172

1.6. Planned Manure Exports

Month-Year	Manure Source	Amount	Receiving Operation	Location
Jun 2024	Barn 9	608 tons	See Attached List	See Attached List
Aug 2024	Barn 12	614 tons	See Attached List	See Attached List
Aug 2024	Barn 9	608 tons	See Attached List	See Attached List
Oct 2024	Barn 15 Shed	756 tons	See Attached List	See Attached List
Oct 2024	Barn 9	608 tons	See Attached List	See Attached List
Dec 2024	Barn 12	614 tons	See Attached List	See Attached List
Dec 2024	Barn 9	608 tons	See Attached List	See Attached List
Feb 2025	Barn 9	608 tons	See Attached List	See Attached List
Apr 2025	Barn 12	614 tons	See Attached List	See Attached List
Apr 2025	Barn 15 Shed	756 tons	See Attached List	See Attached List
Apr 2025	Barn 9	608 tons	See Attached List	See Attached List
Jun 2025	Barn 9	608 tons	See Attached List	See Attached List
Aug 2025	Barn 12	614 tons	See Attached List	See Attached List
Aug 2025	Barn 9	608 tons	See Attached List	See Attached List
Oct 2025	Barn 15 Shed	756 tons	See Attached List	See Attached List
Oct 2025	Barn 9	608 tons	See Attached List	See Attached List
Dec 2025	Barn 12	614 tons	See Attached List	See Attached List
Dec 2025	Barn 9	608 tons	See Attached List	See Attached List
Feb 2026	Barn 9	608 tons	See Attached List	See Attached List
Apr 2026	Barn 12	614 tons	See Attached List	See Attached List
Apr 2026	Barn 15 Shed	756 tons	See Attached List	See Attached List
Apr 2026	Barn 9	608 tons	See Attached List	See Attached List
Jun 2026	Barn 9	608 tons	See Attached List	See Attached List
Aug 2026	Barn 12	614 tons	See Attached List	See Attached List
Aug 2026	Barn 9	608 tons	See Attached List	See Attached List
Oct 2026	Barn 15 Shed	756 tons	See Attached List	See Attached List
Oct 2026	Barn 9	608 tons	See Attached List	See Attached List
Dec 2026	Barn 12	614 tons	See Attached List	See Attached List
Dec 2026	Barn 9	608 tons	See Attached List	See Attached List
Feb 2027	Barn 9	608 tons	See Attached List	See Attached List
Apr 2027	Barn 12	614 tons	See Attached List	See Attached List
Apr 2027	Barn 15 Shed	756 tons	See Attached List	See Attached List
Apr 2027	Barn 9	608 tons	See Attached List	See Attached List
Jun 2027	Barn 9	608 tons	See Attached List	See Attached List
Aug 2027	Barn 12	614 tons	See Attached List	See Attached List
Aug 2027	Barn 9	608 tons	See Attached List	See Attached List
Oct 2027	Barn 15 Shed	756 tons	See Attached List	See Attached List
Oct 2027	Barn 9	608 tons	See Attached List	See Attached List
Dec 2027	Barn 12	614 tons	See Attached List	See Attached List
Dec 2027	Barn 9	608 tons	See Attached List	See Attached List
Feb 2028	Barn 9	608 tons	See Attached List	See Attached List

Month-Year	Manure Source	Amount	Receiving Operation	Location
Apr 2028	Barn 12	614 tons	See Attached List	See Attached List
Apr 2028	Barn 15 Shed	756 tons	See Attached List	See Attached List
Apr 2028	Barn 9	608 tons	See Attached List	See Attached List
Jun 2028	Barn 9	608 tons	See Attached List	See Attached List
Aug 2028	Barn 12	614 tons	See Attached List	See Attached List
Aug 2028	Barn 9	608 tons	See Attached List	See Attached List
Oct 2028	Barn 15 Shed	756 tons	See Attached List	See Attached List
Oct 2028	Barn 9	608 tons	See Attached List	See Attached List
Dec 2028	Barn 12	614 tons	See Attached List	See Attached List
Dec 2028	Barn 9	608 tons	See Attached List	See Attached List
Feb 2029	Barn 9	608 tons	See Attached List	See Attached List
Apr 2029	Barn 12	614 tons	See Attached List	See Attached List
Apr 2029	Barn 15 Shed	756 tons	See Attached List	See Attached List
Apr 2029	Barn 9	608 tons	See Attached List	See Attached List

1.6.2 List of Manure Importers

Name	Address	Phone
Able Jim	5 WATERMAN RD LEBANON CT 06249	860-917-0213
Able Kim-See M&K Dairy	168 Roger Foote Road, Lebanon, CT 06249	860-204-1614
Adams Milan Earl	400 County Trail,Suite A102 Exeter RI 02822	401-639-7806
Allyn Jim	165 Edmond Road Griswold, CT 06351	860-861-3392
Arons Cindy	1038 Trumbull Highway Lebanon, CT 06249	860-428-4933
Bender Ed	300 Beaumont Hwy Lebanon, CT	860-428-6250
Banker Dave	163 S Anguilla Road, Pawcatuck, CT 06379	860-908-6255
Berryhill Farm	245 Wickham Road, East Haddam, CT 06423	860-876-6203
Berg Eric	23 Northwest Corner Road, North Stonington, CT 06339	860-608-0152
Blacker	483 Shewville Rd. Ledyard, CT.	860-270-1375
Blue Slope Sawdust	144 Blue Hill Road North Franklin, CT 06254-1601	860-377-3739
Botticello Bob	336 Hillstown Road, Manchester, CT 06040	860-883-5196
Boucher Steve	10 Baltic Rd. N. Franklin CT.	860-886-1740
Briggs Tom	58 Cook Hill Rd. Lebanon, CT. 06249	860-208-2222
Buell Ken	13 Buell Drive, Eastford, CT 06242	860-377-7780
B-Z-B Farm-Burroughs Andy	90 Barstow Road, Canterbury, CT 06331	860-234-4040
C&G Farm-Curt & Glen Loser	87 Gooseneck Hill Road, Canterbury, CT 06331	860-917-4310
Campbell Richard	92 Campbell Rd Griswold, CT 06351	860-608-8019
Cappicioni Dave-High Oak	16 Pendelton Road Preston, CT 06365	860-234-4287
Caron John	290 Fitch Hill Road, Uncasville, CT 06382	860-966-3919
Chappell Arnold	236 Music Vale RD. Salem, CT. 06420	860-908-0583
Cheetham Scott	630 Al Harvey Road Stonington, CT 06378	860-823-9364

Name	Address	Phone
Chesmere Lincoln-See Graywall Farm	49 CHAPEL RD. LEBANON CT. 06249	860-208-7465
Randy Dill	155 Beebe Road, East Haddam, CT 06423	860-301-3515
Cohen Harris	61 Frog Hollow Road, Ellington, CT 06029	860-729-3772
Cole Eddie	129 Lionel Pierson Rd. Coventry, R.I. 02827	401-316-5643
Cone Jeff	85 Exeter Road, Lebanon, CT 06249	860-617-6305
Congdon Burt	355 Econk Hill Road, Moosup, CT 06354	860-319-1916
Cruz John	61 Depot Rd. Canterbury CT	860-608-0121
Cunningham Jim	89 Rattlesnake Ledge Rd. Salem, CT 06420	860-961-1161
Cushman Farm	120 Kahn Road, North Franklin, CT 06254	860-234-3268
Czerkiewicz Walter	PO Box 7, Rockville, RI 02873	401-539-7253
Daniels Mike	460 RT 165, Preston, CT 06365	860-234-5353
Davis Brad Jr.	P.O. Box 209 Oneco, CT. 06373	860-207-2756
Davis Brad Sr.	260 Main St. Sterling, Ct. 06377	860-207-3959
Demarco Joe	415 Hog House Hill Road, Exeter, RI 02822	508-631-6202
Drisco Parker	200 Potter Rd. Greene, R.I. 02827	401-556-2643
Dzen Don	187 WINSORVILLE RD. ELLINGTON CT.06229	860-916-6438
Ellis Ned- see Maple Leaf Farm	768 Gilead Street Hebron, CT 06248	860-428-3554
Erlandson David Rocky Knoll Farm	173-S Wopowog Road, East Hampton, CT 06424	860-614-8603
Evans Mark	157 OLIVER RD. LEBANON CT.	860-617-5369
Fernandez Manny	534 Keeney Street Manchester, CT 06040	860-798-8542
Flemming Ed	293 Old Jewett City Rd. Preston, CT 06365	860-334-0179
Fowler DJ	148 Plains Rd. Coventry, CT	860-268-2379
Fraleigh Rachel	106 Cranska Road, Moosup, CT 06354	860-564-3615
Fry Pond-LaPlume Bob	263 Fry Pond Road, West Greenwich, RI 02817	401-651-6288
Gallagher Tim	2473 Victory Hwy. Coventry, R.I. 02816	401-369-2987
Gennesse Jack	141 PINE ST. COLUMBIA CT.	860-228-3846
Giglio Lenny	49 SOUTH RD. BOLTON 06043	860-559-1661
Gileau-Sunnyside Farm	99 Campbell Mill Road Voluntown, CT 06384	860-230-7479
Gluck Brian	187 Packerville Road, Plainfield, CT 06374	860-234-5660
Gluck Mark	27 Oak Drive, Plainfield, CT 06374	860-608-1755
Gluck Kevin	162 Packerville Road, Plainfield, CT 06374	860-428-5303
Goldstein Rick	379 Goshen Hill Road, Lebanon, CT 06249	860-942-4193
Gookin Joe	169 Water Street, Canterbury, CT 06331	860-230-8844
Grabarek Gerald	17 Hewitt Road, Preston, CT 06365	860-859-7057
Grant Chris	188 Mell Rd. Lisbon, CT. 06351	860-334-9857
Green George	771 South St. Coventry, CT	860-967-6163
Habarek Peter	PO Box 1150, 259 Kenyon Hill Rd. Hope Valley, RI 06832	401-539-7587
Heckler Chester	286 Brewster Street Coventry,CT 06238	860-614-3596
Held Walter	100 Brewster Rd Griswold, CT	860-376-4265
Hermonot Chris	515 Lebanon Road, North Franklin, CT 06254	860-303-5679
Ireland Bill	22 North Bear Hill Rd, Chaplin , CT 06235	860-942-4656

Name	Address	Phone
James Barry	45 Tomaquag Rd Bradford, R.I. 02808	401-788-7917
Johnson Bill	860 Hop River Road, Columbia, CT 06237	860-874-9906
Kalal Tom	80 Grassy Hill Road East Lyme, CT 06333	860-501-0929
Kavana Paul	80 Woodland St. Glastonbury, CT.	860-977-5401
Kettle Brad	4 Howe Rd. Canterbury, CT. 06331	860-334-3571
Kobb Kristen	114 West Street Columbia, CT 06237	860-428-9779
Lamb Alan	250 Babcock Hill Road Lebanon, CT 06249	860-642-7596
Lathrop Donald	13 Scott Hill Road Bozrah, CT 06334	860-608-4903
Lewis Farm	273 Boombridge Road, North Stonington, CT 06359	860-333-7035
Lindell Kevin	144 Colburn Rd. Canterbury, CT	860-268-1725
LoPresti Joseph	5 Hollowell Rd, Priston, CT 06365	860-887-5292
McGillicuddy-See Square A	1068 Trumbull Highway, Lebanon, CT 06249	860-204-7010
McLean Frank&Rebecca	P.O. Box 275, Cobalt, CT 06414	860-267-9975
Manfredi Rich	1 Sweetcorn Lane, Westerly, RI 02891	401-533-3242
Mihok Roland	470 Pond Road North Franklin, CT 06254	860-642-7036
Mattern Ed	51 Mattern Rd. Preston 06365	860-961-1343
Miner Janice	112 Rocky Hollow Rd. North Stonington, CT. 06359	860-501-1028
Miner Robert	117 Chester Maine Road, North Stonington, CT 06339	860-514-5727
Molodich Mike	36 Cedar Swamp Rd, Moosup, CT 06354	860-942-3185
Moran Ray	557 Bailey Hill Road, East Killingly, CT 06241	860-774-5437
Morgan Richard	24 Douglas Lane, Waterford, CT 06385	860-333-0644
Nieminen Arthur	222 Brown Road, Voluntown, CT 06384	860-564-8730
Kevin Olson	699 Cook Hill Rd. Danielson, CT.	860-942-2576
Palmer George-Palmer Farm	1 East Clark Falls Road, North Stonington, CT 06359	860-215-0735
Paggioli Tom	66 Birch mountain Rd. Bolton CT. 06043	860-918-8901
Papoosha Scott	212 Route 80, Killingworth, CT 06419	860-391-5449
Penny Fred	350 Lisbon Road, Canterbury, CT 06331	860-617-9012
Pieczarek Ray	242 7 Mile Rd. Hope, R.I. 02831	401-413-7204
Piela Roland	364 Flanders Road, Coventry, CT 06238	860-208-2824
Robinson Doug	470 Route 66, Columbia, CT 06237	860-573-9466
Rzeznikiewicz Mark	265 Mason Hill Road, Dayville, CT 06241	860-428-0484
Sanford Ted	60 Liberty Church Rd. Exeter RI 02822	401-212-1308
Savino-Twin Hill Farm	144 Palmer Road, P.O. Box 256, Scotland, CT 06264	860-450-9474
Schwab Dwayne	74 Foxtown Cemetery Road Colchester, CT 06415-5319	860-884-4278
Speilman Art	13 Plain Hill Road, Baltic, CT 06330	860-334-4323
Stearns Doug	75 Murphy Hill Rd. Windham, CT. 06280	860-428-9599
Stedman Glen	88 Terwilleger Road Danielson, CT 06239	860-377-6209
Sweet Farm	497 Ekonk Hill Road, Voluntown, CT 06384	860-303-6224
Tanner Austin	19 Purvis Road, Brooklyn, CT 06234	860-617-7297
Taylor Eric Devon Point Farm	54 Jeremy Hill Road, North Stonington, CT 06359	860-942-9881
Tefft Judy	158 Spring Street Hope Valley, RI 02832	401-539-0042

Name	Address	Phone
Tyler Tim	495 North Society Road, Canterbury, CT 06331	860-234-1695
Vournazos Dean	77 STONE HILL RD. GRISWOLD CT.	860-884-2889
Wells Tom-Hillside Farm	513 B Wormwood Hill Rd, Mansfield Center, CT 06250	860-234-1605
Wheeler Bruce	189 Miner Pentway, Pawcatuck, CT 06379	860-912-7823
Wheeler Dudley	476 Taugwonk Rd. Stonington, CT. 06378	860-303-4852
Wheeler Nate	327 North Anguilla Road, Pawcatuck, CT 06379	860-941-3295
Whelan Fran-Hayes Farm	269 Hayes Rd. Rocky Hill	860-841-2872
White John-Selbourn Valley Farm	144 Hopkins Road, Woodstock, CT 06281	860-942-7650
Wildowsky Randy	20 Nygren Road, Lisbon, CT 06351	860-884-1490
Williams Matthew	234 Goshen Hill Road, Lebanon, CT06249	860-861-7616
Wilkinson John	35 Johnson Rd. Columbia, CT. 06237	860-543-5482
Wolf Rick	60 Flanders Road, East Hampton, CT 06424	860-398-0849
Woodmansee	315 RT 165, Preston City, CT 06365	860-887-8079
Zaicek Dan	297 Zaicek Road, Ashford, CT 06278	860-428-8316
Zlotnick John	430 Pumpkin Hill Road, Ashford, CT 06278	860-933-0762
A&K	P.O. Box 866, North Bennington, VT 05257	802-733-1186
Cassella	2960 Kennebec Road, Newburg, ME 04444	207-699-9199
Garret Farms	289 Hunt Road, Hillsdale, NY 12529	518-755-5021
Iron Will Farm	P.O. Box 152, Gaylordsville, CT 06755	845-242-4441
Lipton Louis-Pleasant View	452 South Rd. Somers, CT	860-803-0675
Martin Eli	392 Brookmans Corner Rd. Fort Plains, NY. 13339	518-993-4178
Martin Farms	300 County Route 9 Ghent, NY 12075	518-701-0002
Rhonda K Supply-Mayer	2984 County Line Road, Watkins Glen, NY 14891	607-703-9500
Rudlan Farm	1601 County RT 7A, Copake, NY 12516	518-207-7552
Tenza Frank DeHook Farm	32 Hine Road, New Milford, CT 06776	203-788-2320
Whiles T R	23 Dawn's Trail, Durham, CT 06422	860-221-5225
Van Wyck Bros Drainage LLC	116 Potter Lane, Fort Plain, NY 13339	802-989-3129
Vynalek Ron	896 Little City Road, Higganum, CT 06441	860-638-8495
Hackling Clayton	116-1 Blood Street, Lyme, CT 06371	860-326-4231
Frank Loupe Jr.	409 Birch Point Road, Wiscasset, ME 04578	207-504-1216

1.7. Planned Manure Imports

(None)

1.8. Planned Internal Transfers of Manure

(None)

1.9. Brief Description of or Additional Information about Animal Feeding Operation (Optional)

This farm operates as a pullet raising operation that houses a total of 955,656 chicks. All birds are confined to the barns 100% of the time. Manure from Barn 15 is handled on a belted manure system that transfers manure on a daily basis to a roofed manure storage structure at the end of the barn. Manure generated in Barn 10 is stored in Barn 9, Manure from Barns 11 & 12 is stored in Barn 12.

Mortalities are collected from the barns on a daily basis and composted in the manure storage buildings.

All manure and finished mortality compost is exported off site to approximately 134 individual operations located in Connecticut and surrounding states.

There is no cropland or pastureland associated with this operation, therefore there are no manure or fertilizer application associated with this operation.

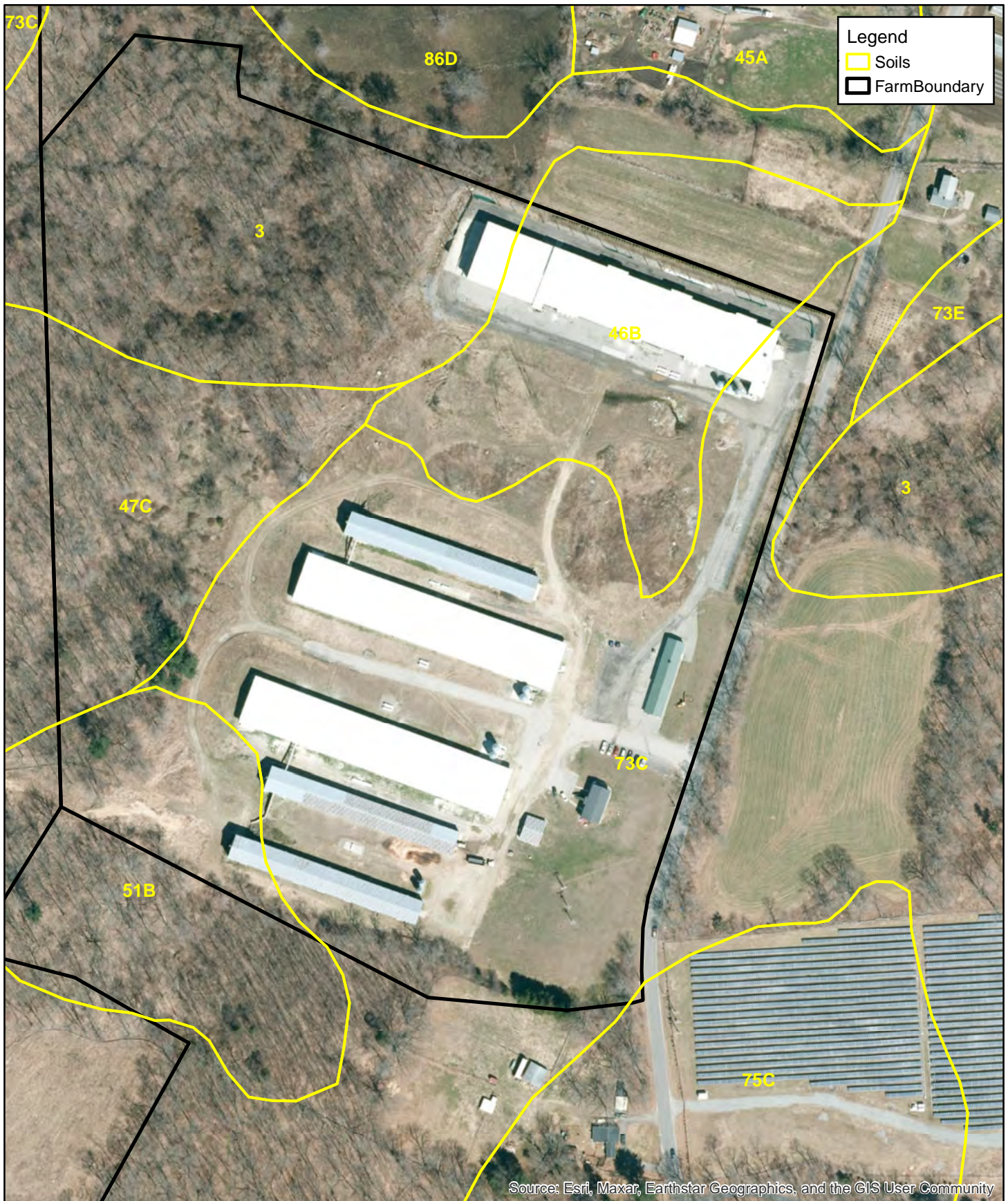
Section 2. Crop and Pasture (Land Treatment)

2.1. Maps of Fields, Soils, Application Setbacks, Existing and Planned Crop and Pasture Conservation Practices

Hillandale Farms Conn, LLC - Brush Hill Topo Map



Hillandale Farms Conn, LLC - Brush Hill Soils Map



Legend

This report presents general information about the map units in the selected area. It shows map unit symbols and names for each map unit.

Report—Legend

Legend—State of Connecticut, Eastern Part	
Map unit symbol and name	Map unit acres
3—Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	82,707
15—Scarboro muck, 0 to 3 percent slopes	7,217
17—Timakwa and Natchaug soils, 0 to 2 percent slopes	19,436
18—Catden and Freetown soils, 0 to 2 percent slopes	20,658
23A—Sudbury sandy loam, 0 to 5 percent slopes	8,484
34B—Merrimac fine sandy loam, 3 to 8 percent slopes	10,365
34C—Merrimac fine sandy loam, 8 to 15 percent slopes	1,517
38C—Hinckley loamy sand, 3 to 15 percent slopes	42,339
38E—Hinckley loamy sand, 15 to 45 percent slopes	15,194
45A—Woodbridge fine sandy loam, 0 to 3 percent slopes	8,541
45B—Woodbridge fine sandy loam, 3 to 8 percent slopes	25,790
46B—Woodbridge fine sandy loam, 0 to 8 percent slopes, very stony	40,282
46C—Woodbridge fine sandy loam, 8 to 15 percent slopes, very stony	3,482
47C—Woodbridge fine sandy loam, 3 to 15 percent slopes, extremely stony	36,576
51B—Sutton fine sandy loam, 0 to 8 percent slopes, very stony	15,998
52C—Sutton fine sandy loam, 2 to 15 percent slopes, extremely stony	14,833
60B—Canton and Charlton fine sandy loams, 3 to 8 percent slopes	21,141
60C—Canton and Charlton fine sandy loams, 8 to 15 percent slopes	7,751
60D—Canton and Charlton soils, 15 to 25 percent slopes	2,975
61B—Canton and Charlton fine sandy loams, 0 to 8 percent slopes, very stony	44,945
61C—Canton and Charlton fine sandy loams, 8 to 15 percent slopes, very stony	36,283
62D—Canton and Charlton fine sandy loams, 15 to 35 percent slopes, extremely stony	24,004
68C—Narragansett silt loam, 3 to 15 percent slopes, extremely stony	1,345
71C—Nipmuck-Brimfield-Rock outcrop complex, 3 to 15 percent slopes	7,983
71E—Nipmuck-Brimfield-Rock outcrop complex, 15 to 45 percent slopes	6,559
72C—Nipmuck-Brookfield complex, 3 to 15 percent slopes, very rocky	22,469
72E—Nipmuck-Brookfield complex, 15 to 45 percent slopes, very rocky	9,965
73C—Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	120,414
73E—Charlton-Chatfield complex, 15 to 45 percent slopes, very rocky	52,054
75C—Hollis-Chatfield-Rock outcrop complex, 3 to 15 percent slopes	23,106

Legend--State of Connecticut, Eastern Part	
Map unit symbol and name	Map unit acres
75E—Hollis-Chatfield-Rock outcrop complex, 15 to 45 percent slopes	27,070
84B—Paxton and Montauk fine sandy loams, 3 to 8 percent slopes	22,587
84C—Paxton and Montauk fine sandy loams, 8 to 15 percent slopes	7,683
85B—Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony	29,928
306—Udorthents-Urban land complex	29,140
701A—Ninigret fine sandy loam, 0 to 3 percent slopes	5,146
701B—Ninigret fine sandy loam, 3 to 8 percent slopes	1,349
703A—Haven silt loam, 0 to 3 percent slopes	3,376
703B—Haven silt loam, 3 to 8 percent slopes	4,379

Data Source Information

Soil Survey Area: State of Connecticut, Eastern Part
 Survey Area Data: Version 1, Sep 15, 2023

2.2. Crop and Pasture Conservation Practices -- Record of Decisions

This section does not apply to this operation there is no crop or pastureland associated with this operation

2.3. Crop and Pasture Conservation Practices – Implementation Requirements

This section does not apply to this operation there is no crop or pastureland associated with this operation

2.4. Predicted Soil Erosion

This section does not apply to this operation there is no crop or pastureland associated with this operation

Section 3. Nutrient Management Plan (590)

3.1. Nitrogen and Phosphorus Risk Analyses

This section does not apply to this operation there are no manure application managed by this operation, all manure, mortality compost and process wash water is exported.

3.2. Manure Application Setback Distances

This section does not apply to this operation there are no manure application managed by this operation, all manure, mortality compost and process wash water is exported.

3.3. Soil Test Data

This section does not apply to this operation there is no crop or pastureland associated with this operation

3.4. Manure Nutrient Analyses

Manure Source	Dry Matter (%)	Total N	NH ₄ -N	Total P ₂ O ₅	Total K ₂ O	Avail. P ₂ O ₅	Avail. K ₂ O	Units	Analysis Source and Date
Barn 15 Shed	40.4	46.8	9.7	42.3	31.7	42.3	31.7	lbs/ton	Average of 3 samples from 5/5/2023 Midest Labs
Barn 9	40.4	46.8	9.7	42.3	31.7	42.3	31.7	lbs/ton	Average of 3 samples from 5/5/2023 Midest Labs
Barn 12	40.4	46.8	9.7	42.3	31.7	42.3	31.7	lbs/ton	Average of 3 samples from 5/5/2023 Midest Labs

a. Entered analysis may be the average of several individual analyses.

b. Connecticut assumes that 100% of manure phosphorus and 100% of manure potassium is crop available. First-year per-acre nitrogen availability for individual manure applications is given in the Planned Nutrient Applications table. For more information about nitrogen availability in Connecticut, see The Penn State Agronomy Guide 2013-2014, Table 1.2-15 (<http://extension.psu.edu/agronomy-guide/cm/tables/table1-2-15.pdf>).

Manure Sampling Procedure

Samples are collected by Hillandale staff using a plastic garden shovel and bucket to collect several subsamples from each manure storage/barn that is then blended to create a representative composite sample that is then placed a sealed bags and shipped immediately to Midwest Lab.

3.5. Planned Crops and Fertilizer Recommendations

This section does not apply to this operation there is no crop or pastureland associated with this operation.

3.6. Planned Nutrient Applications

This section does not apply to this operation there are no manure application managed by this operation, all manure, mortality compost and process wash water is exported.

3.7. Field Nutrient Balance

This section does not apply to this operation there is no crop or pastureland associated with this operation and no manure applications are managed by this operation, all manure, mortality compost and process wash water is exported.

3.8. Manure Inventory Annual Summary (Optional)

Manure Source	Plan Period	On Hand at Start of Period	Total Generated	Total Imported	Total Transferred In	Total Applied	Total Exported	Total Transferred Out	On Hand at End of Period	Units
Barn 15 Shed	May '24 - Apr '25	0	1,509	0	0	0	1,512	0	-3	tons
Barn 9	May '24 - Apr '25	0	3,650	0	0	0	3,648	0	2	tons
Barn 12	May '24 - Apr '25	0	1,841	0	0	0	1,842	0	-1	tons
All Sources	May '24 - Apr '25	0	7,000	0	0	0	7,002	0	-2	tons
Barn 15 Shed	May '25 - Apr '26	-3	1,509	0	0	0	1,512	0	-6	tons
Barn 9	May '25 - Apr '26	2	3,650	0	0	0	3,648	0	4	tons
Barn 12	May '25 - Apr '26	-1	1,841	0	0	0	1,842	0	-2	tons
All Sources	May '25 - Apr '26	-2	7,000	0	0	0	7,002	0	-4	tons
Barn 15 Shed	May '26 - Apr '27	-6	1,509	0	0	0	1,512	0	-9	tons
Barn 9	May '26 - Apr '27	4	3,650	0	0	0	3,648	0	6	tons
Barn 12	May '26 - Apr '27	-2	1,841	0	0	0	1,842	0	-3	tons
All Sources	May '26 - Apr '27	-4	7,000	0	0	0	7,002	0	-6	tons
Barn 15 Shed	May '27 - Apr '28	-9	1,509	0	0	0	1,512	0	-12	tons
Barn 9	May '27 - Apr '28	6	3,650	0	0	0	3,648	0	8	tons
Barn 12	May '27 - Apr '28	-3	1,841	0	0	0	1,842	0	-4	tons
All Sources	May '27 - Apr '28	-6	7,000	0	0	0	7,002	0	-8	tons
Barn 15 Shed	May '28 - Apr '29	-12	1,509	0	0	0	1,512	0	-15	tons
Barn 9	May '28 - Apr '29	8	3,650	0	0	0	3,648	0	10	tons
Barn 12	May '28 - Apr '29	-4	1,841	0	0	0	1,842	0	-5	tons
All Sources	May '28 - Apr '29	-8	7,000	0	0	0	7,002	0	-10	tons

3.9. Fertilizer Material Annual Summary (Optional)

NA

3.10. Plan Nutrient Balance

	N (lbs)	P ₂ O ₅ (lbs)	K ₂ O (lbs)
Total Manure Nutrients on Hand at Start of Plan ^a	0	0	0
Total Manure Nutrients Collected ^b	1,638,000	1,480,500	1,109,500
Total Manure Nutrients Imported ^c	0	0	0
Total Manure Nutrients Exported ^d	1,638,468	1,480,923	1,109,817
Total Manure Nutrients Gained/Lost in Transfer ^e	0	0	0
Total Manure Nutrients on Hand at End of Plan ^f	-468	-423	-317
Total Manure Nutrients Applied ^g	0	0	0
Available Manure Nutrients Applied (Utilized by plan's crops) ^h	0	0	0
Available Manure Nutrients Applied (Not utilized by plan's crops) ⁱ	0	0	0
Commercial Fertilizer Nutrients Applied (Utilized by plan's crops) ^j	0	0	0
Commercial Fertilizer Nutrients Applied (Not utilized by plan's crops) ^k	0	0	0
Available Nutrients Applied (Manure and fertilizer; utilized by plan's crops) ^l	0	0	0
Nutrient Utilization Potential ^m	0	0	0
Nutrient Balance of Spreadable Acres ^{n p}	0	0	0
Average Nutrient Balance per Spreadable Acre per Year ^{o p}	0	0	0

- a. Total manure nutrients present in storage at the beginning of the plan.
- b. Total manure nutrients collected on the farm.
- c. Total manure nutrients imported onto the farm.
- d. Total manure nutrients exported from the farm to an external operation.
- e. Net change in total manure nutrients due to transfers between storage units with differing analyses.
- f. Total manure nutrients present in storage at the end of plan.
- g. Total nutrients present in land-applied manure. These values do not account for losses due to rate, timing, and method of application.
- h. Manure nutrients applied and available to crops in the plan. These values are based on the total manure nutrients applied after accounting for nutrient losses due to rate, timing, and method of application. Nutrients which will not be utilized by crops in the plan are excluded from these values.
- i. Manure nutrients applied that will be utilized by crops outside the plan. This usually results from Fall nutrient applications at the end of the plan intended for crops in subsequent years.
- j. Nutrients applied as commercial fertilizers and nitrates contained in irrigation water. Nutrients that will not be utilized by crops in the plan are excluded from these values.
- k. Nutrients applied as commercial fertilizer which will be utilized by crops outside the plan.
- l. Sum of available manure nutrients applied and commercial fertilizer nutrients applied.
- m. Nutrient utilization potential of crops grown. For N the value is based on the N recommendation for non-legume crops and N uptake or other state-imposed limit for N application rates for legumes. P₂O₅ and K₂O values are based on fertilizer recommendations or crop removal (whichever is greater).
- n. Available nutrients applied minus crop nutrient utilization potential. Negative values indicate additional nutrient utilization potential and positive values indicate over-application.
- o. Average per acre-year nutrient balance. Values are calculated by dividing nutrient balance of spreadable acres by the number of spreadable acres in the plan and by the length of the plan in years. Negative values indicate additional nutrient utilization potential and positive values indicate over-application.
- p. Non-trivial, positive values for N indicate that the plan was not properly developed. Negative values for N indicate additional nutrient utilization potential which may or may not be intentional. For example, plans that include legume crops often will not utilize the full N utilization potential for legume crops if manure can be applied to non-legume crops that require N for optimum yield. Positive values for P₂O₅ and/or K₂O do not necessarily indicate that the plan was developed improperly. For example, producers may be allowed to apply N-based application rates of manure to fields with low soil test P values or fields with a low potential P-loss risk based on the risk assessment tool used by the state. Negative values for P₂O₅ and K₂O indicate that planned applications to some fields are less than crop removal rates or fertilizer recommendations.

Section 4. Record Keeping

