410-537-3314 • 800-633-6101 x3314 • www.mde.maryland.gov NOTICE OF INTENT General Discharge Permit for Animal Feeding Operations (AFOs) (19AF, MDG01) Land and Materials Administration – Resource Management Program Issued Pursuant to Title 9, Environment Article, Annotated Code of Maryland, and Code of Maryland Regulations (COMAR) 26.08.04
NOTICE OF INTENT General Discharge Permit for Animal Feeding Operations (AFOs) (19AF, MDG01) Land and Materials Administration – Resource Management Program Issued Pursuant to Title 9, Environment Article, Annotated Code of Maryland, and Code of Maryland Regulations (COMAR) 26.08.04
General Discharge Permit for Animal Feeding Operations (AFOs) (19AF, MDG01) Land and Materials Administration – Resource Management Program Issued Pursuant to Title 9, Environment Article, Annotated Code of Maryland, and Code of Maryland Regulations (COMAR) 26.08.04
Annotated Code of Maryland, and Code of Maryland, and Code of Maryland Regulations (COMAR) 26.08.04
Submission of this Notice of Intent (NOI) constitutes notice that the person identified in this form intends to operate under and comply with all terms and conditions of the State/NPDES General Discharge Permit for AFOs (AFO Permit). The discharge of animal waste, including manure, poultry litter, and process wastewater to waters of the State is prohibited unless an AFO has been registered under the AFO Permit by the Maryland Department of the Environment ("MDE"). A person shall hold a CAFO discharge permit issued by MDE before beginning construction on any part of a new CAFO.
Please submit this completed NOI Form to the following address:
Maryland Department of the Environment Land and Materials Administration/AFO Division 1800 Washington Boulevard, Suite 610 Baltimore Maryland 21230-1719
Buildinoid, Maryland 21250-1719
General Information
ALNumber (7900

	(10000
	LODDER
INNIC	CUPPER

2. AFO Type (circle one): CAFO/ MAFO

Applying for (check one):
 □ New Coverage see column 'A' in Question 4
 □ Continuation of Coverage (renewal) see column 'B' in Question 4
 □ Modification of 19AF Coverage see column 'C' in Question 4

# 4. Reason for NOI (please fill out corresponding column):

A. New Coverage	B. Continuation of Coverage , (renewal)	C. Modification of 19AF Coverage
<ul> <li>New owner/operator</li> <li>Proposed operation (NO construction may begin until permit coverage is obtained)</li> <li>Date of anticipated start of AFO operation:</li> </ul>	<ul> <li>No changes in operation There has been a change in one or more of the following (please indicate): <ul> <li>Size or number of houses</li> <li>Animal number, resulting in change of size category</li> <li>CAFO to MAFO, MAFO to CAFO</li> <li>No-Land to Land, Land to No-Land</li> <li>Conventional operation to organic</li> </ul></li></ul>	<ul> <li>Expanding</li> <li>Change in animal number, resulting in change of size category</li> <li>Change from CAFO to MAFO</li> <li>Change from MAFO to CAFO</li> <li>Change from no-land to land</li> <li>Change from land to no-land</li> <li>Change from conventional to organic operation</li> </ul>

	Applicant (Owner/Opera	tor Information)	
5. Mailing Address of Ap City: Denton	plicant: 22719 Tha State: Maryland	wley Road Zip Code:	21629
6. Telephone Number(s)	of Applicant: (Home) N/	ł	
7. Email of Applicant: d	(Cell)	1	
	U		
	Farm Inform	ation	ili <u>n an an an an a</u>
9. Farm Address: 23! City: Denton	513 Thawley R county: Caroline	oad Zip Code:	21629
<ol> <li>10. Watershed/Hydrologie</li> <li>11. Latitude/Longitude of</li> <li>12. Animal Information:</li> </ol>	e Unit Code (HUC) (12-digit): <u>a</u> Production Area (Deg/Min/Sea	<u>0073</u> ⊂ ≫:38°- <u>53′-044</u> 8	213040505
<ul> <li>10. Watershed/Hydrologie</li> <li>11. Latitude/Longitude of</li> <li>12. Animal Information:</li> <li>A. Animal Type(s) (from AFO size chart)</li> </ul>	B. Maximum Number of Animals at any given time (For poultry, please indicate bird type and number per flock)	$\frac{6673}{53} \qquad \qquad$	D. Animal Confinemer Type (e.g. house, feedlot, barn, pilking parlor, pen)
10. Watershed/Hydrologia 11. Latitude/Longitude of 12. Animal Information: A. Animal Type(s) (from AFO size chart) САFO [Chickers]	B. Maximum Number of Animals at any given time (For poultry, please indicate bird type and number per flock) CMickens ( 60,000 54,400	C. Operation Size (consult AFO size chart)	D. Animal Confinemen Type (e.g. house, feedlot, barn, milking parlor, pen) M HOUSC
<ul> <li>10. Watershed/Hydrologia</li> <li>11. Latitude/Longitude of</li> <li>12. Animal Information: <ul> <li>A. Animal Type(s)</li> <li>(from AFO size chart)</li> <li>CAFO (Chickers)</li> </ul> </li> <li>*For poultry only (13-16):</li> <li>13. *Number of poultry here</li> </ul>	e Unit Code (HUC) (12-digit): Production Area (Deg/Min/Sea B. Maximum Number of Animals at any given time (For poultry, please indicate bird type and number per flock) Chickens ( 40,000 54,400 S4,400	C. Operation Size (consult AFO size chart)	D. Animal Confinement Type (e.g. house, feedlot, barn, milking parlor, pen) M HOUS C
<ul> <li>10. Watershed/Hydrologia</li> <li>11. Latitude/Longitude of</li> <li>12. Animal Information: <ul> <li>A. Animal Type(s)</li> <li>(from AFO size chart)</li> <li>CAFO [Chickets]</li> </ul> </li> <li>*For poultry only (13-16): <ul> <li>13. *Number of poultry he</li> </ul> </li> <li>14. *Combined square for</li> </ul>	e Unit Code (HUC) (12-digit): Production Area (Deg/Min/Sea B. Maximum Number of Animals at any given time (For poultry, please indicate bird type and number per flock) Chickens ( CO, OOO 54,400 ouses: 2 otage of all poultry houses: (	C. Operation Size (consult AFO size chart) targe Mediu	D. Animal Confinemer Type (e.g. house, feedlot, barn, milking parlor, pen) M HOUSC

16. *Integrator (	check one):	Contact Information: TIM TIMMONS
□ Allen-H	larim 🛛 Mountaire	Phone No.: 302 - 855 - 55 10
Amick	Perdue	Address:
Colema	n (D	Salisbury, mD
Other (	please specify):	
International and a second		

4

### Manure/Mortality Management

17.	Total Manure/Litter/Wastewater generated annually: 433 circle one: (tons) lbs / gallons)
18.	Total Manure/Litter/Wastewater transported offsite annually: 170 circle one: (tons) lbs / gallons)
19.	**Total number of acres controlled by applicant available for land application of manure/litter/process wastewater: Owned: C Leased:

\*\*40 CFR Parts 122.23(b)(3) and 412.2(e) define "land application area" as all land under the control of the AFO owner/operator, whether by ownership, lease, or agreement, to which manure, litter or process wastewater is or may be applied.

#### 20. Manure Storage (please list individually):

A. Type (e.g. shed, lagoon, pit)	B. Capacity (ft <sup>3</sup> , gal)	C. Solid/Liquid
Shed	50×80	Solid
	approx. 23,300 cu ft	the left dealer point of the

21. Mortality Managemen	t Method:
- Compost	□ Incinerate
□ Freeze	□ Other (please specify):
□ Render	u 1 007

### **CAFOs Only - Fees**

Once a completed NOI is received by MDE and processed, MDE will invoice the applicant for any permit fees owed pursuant to COMAR 26.08.04.09-1.

### **Required Plan**

### Certification

By signing this form, I the applicant or duly authorized representative, do solemnly affirm under the penalties of perjury that the contents of this application are true to the best of my knowledge, information, and belief. I hereby authorize the representatives of MDE to have access to the AFO and associated lots/facilities (farms) for inspection and to records relating to this application at any reasonable time. I acknowledge that depending on the type of permit applied for, other permits or approvals may be required. The personal information requested on this form is intended to be used in processing your NOI. This Notice is provided pursuant to Title 4 of the General Provisions Article, Annotated Code of Maryland. Your NOI may not be processed if you fail to provide all requested information. You have the right to inspect, amend, or correct this form. MDE is a public agency and subject to the Maryland Public Information Act (Md. Code Ann., Gen. Prov. §§ 4-101, et seq.). This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not otherwise protected by federal or State law.

<u>Man</u> <u>Chappen</u> Signature of Applicant / duly authorized representative

Marc Clopper Printed Name of Applicant / duly authorized representative

8 26 2020 Date OWNEr Title

	Circumstances under which Animal Feeding Operations Require Permit Coverage					
Animal Type	CAFO or MAFO Registration Required	CAFO/MAFO Registration Required under Certain Circumstances	Registration Needed Only if Designated Small			
	Large	Medium				
Cattle (includes heifers)	1000 or more animals	300—999 animals	less than 300 animals			
Dairy cattle	700 or more animals	200—699 animals	less than 200 animals			
Horses	500 or more animals	150—499 animals	less than 150 animals			
Veal	1000 or more animals	300—999 animals	less than 300 animals			
Swine $\geq$ 55 pounds	2500 or more animals	750—2499 animals	less than 750 animals			
Swine < 55 pounds	10,000 or more animals	3,000—9,999 animals	less than 3,000 animals			
Sheep and lambs	10,000 or more animals	3,000-9,999 animals	less than 3,000 animals			
Ducks with liquid manure handling+	5,000 or more animals	1,500—4,999 animals	less than 1,500 animals			
Chickens with liquid manure handling	30,000 or more animals	9,000—29,999 animals	less than 9,000 animals			
Ducks with dry manure handling	30,000 or more animals	10,000—29,999 animals	less than 10,000 animals			
Laying hens with dry manure handling	82,000 or more animals	25,000—81,999 animals	less than 25,000 animals			
Chickens (other than laying hens) with dry manure handling	125,000 or more animals or greater than or equal to total house size of 100,000 $ft^2$	37,500—124,999 animals and less than total house size of 100,000 ft <sup>2</sup>	less than 37,500 animals			
Turkeys	55 000 or more animals	16.500-54.999 animals	less than 16,500 animals			

#### **AFO Size Chart**

+A separate discharge permit is required for large category duck CAFOs

# COMPREHENSIVE NUTRIENT MANAGEMENT PLAN

FOR

Clopper Farms Marc R. Clopper



LOCATION ADDRESS 23513 Thawley Rd. Denton, Maryland 21629

MAILING ADDRESS 22719 Thawley Rd Denton, Maryland 21629

PREPARED BY

Caroline Soil Conservation District 9194 Legion Rd. Suite 3 Denton, MD 21629

> Plan Date: September 2023



CNMP WEB TOOL

# COMPREHENSIVE NUTRIENT MANAGEMENT PLAN

Clopper Farms Marc R. Clopper

23513 Thawley Rd. Denton, Marvland 21629

MAILING ADDRESS

22719 Thawley Rd Denton, Maryland 21629

PREPARED IN COOPERATION WITH THE



U.S. Department of Agriculture Natural Resources Conservation Service

AND THE



Caroline Soil Conservation District 9194 Legion Rd. Suite 3 Denton, MD 21629

Prepared by: Tara Krick

Plan Date: September 2023

Poultry Operation (No Land Plan)

Concentrated Animal Feeding Operation (CAFO) M.D.E. Agency Interest # 67908

# **SECTION 1: CNMP Purpose and Agreement**

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 for the AFO.

This CNMP is valid as long as there are no major changes to the operation. A plan revision will be needed when the numbers of animals deviates by 10% from the planned amount or when the operation changes from one type of livestock to another. Annual revisions will be necessary for the nutrient management system in order to account for crop changes and soil sample result changes.

This CNMP was developed paying special attention to the USEPA's required nine minimum practices for water quality protection. This plan when implemented by Marc R. Clopper will ensure clean runoff is diverted from manure storage and production areas and livestock are prevented from making direct contact with waters.

#### **Owner/Operator**

As the owner/operator of this CNMP, I, as the decision-maker, I 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 the implementation of this CNMP. It is my intent to implement/accomplish this CNMP in a timely manner as described in the plan.

Man K Copper

# Marc R. Clopper

12 5/23

# Certified Comphrensive Nutrient Management Plan (CNMP) Planner

As an approved Comprehensive Nutrient Management Plan (CNMP) Planner, I certify that I have reviewed the Comprehensive Nutrient Management Plan and that the elements of the documents are technically compatible, reasonable and can be implemented.

Stephanie Knutsen NRCS Planner Certification # 160 Nutrient Management Certification #1398

wa thick

Tara Krick Nutrient Management Certification # 4313

# Date

10/27/23

Date

Caroline's Soil Conservation District As the Caroline's Soil Conservation District Manager, I certify that I have reviewed this CNMP and concur that the plan meets the Queen Anne's Soil Conservation District's conservation goals.

John R.

11 28 23 Date

S.

Inc. rive 702 am tes

149

# **SECTION 2: Farmstead (Production Area)**

This element addresses the components and activities associated with the production facility, feedlot or animal loafing facilities, manure and wastewater storage and treatment structures and areas, animal mortality facilities, feed and other raw material storage areas, and any areas used to facilitate transfer of manure and wastewater.

### **Farm Locations**

Farm Name	Owner	Tax Account ID	Farm #	Tract #	Account ID Acres	Watershed
Clopper Farm	Marc R. Clopper		2022	226	211.6	02-13-04- 05-0520

# **Description of Operation / Additional Information**

Marc Clopper is the owner/operator of this 2 house poultry facility. Mr. Clopper grows roasters for Perdue Farms. He averages 4 flocks a year, with a flock capacity of 54,400 birds per flock. All manure is exported to Neal Farms Partnership, therefor this is a No Land CNMP. Cropland on this parcel is tilled by Clopper Farms. Of the 211.6 acres on this parcel there is 3.2 acres of CREP, 142.1 acres of cropland, approximately 8 acres of poultry headquarters, with the remainder in woods.

### **Sensitive Environmental Information**

Name of nearest regulatory waterbody	Distance to nearest regulatory waterbody (ft.)	Distance to nearest regulatory wetland (ft.)	
Tributary leading to Tuckahoe Creek	80	130	

			Tier II		Impairments		
Account ID	MD DNR 12 Digit Watershed	Watershed Name	High Quality Waters Watershed	Nitrogen	Phosphorus	Bacteria (e.coli, enterocci or fecal)	Sediment
	02-13-04-05- 0520	Tuckahoe Creek	No	No	No	Yes	No

### **Animal Production**

### Poultry

Bird Type	Average Bird Weight (lbs)	Number of Houses	Total Number of Birds (All Houses)	Number of Flocks per year	Manure Generated/Produced (tons/year)*	Manure Available for Utilization/Removed (tons/year)**
Roaster	9.25	2	54,400	4	393 tons/yr	varied-see poultry litter quantity worksheet

\* See poultry litter quantity estimation sheets in the "Nutrient Management" section of this plan.

Operators must keep records of the actual:

- 1. Quantity estimate of litter removed from production and/or storage facility; and
- 2. Date of removal of litter from production and/or storage facility.

# **Manure Collection**

Last total cleanout was done in 2022. Center cuts are taken annually. Between flocks primarily windrowing with an occasional crust out when needed.

## Manure Storage

All manure is exported to Neal Farms Partnership. When immediate transport is not available, manure is is stored in the 50' x 80' manure storage structure

# **Current / Proposed Manure Storage Conditions**

Animal Type	Storage Structure	Size of Storage Structure	Storage Capacity	Date Constructed
Poultry	Roofed Waste Storage Structure	50' x 80'	approx. 23,200	6/08/2007

# IMPORTANT! Manure should not be stockpiled or staged anywhere in the production area other than permanent manure storage structure for any length of time.

### Transfer Information (Farm(s) receiving exported manure)

Animal Type	Name	Address
Poultry	Neal Farms Partnership	7275 Federalsburg Highway, Federalsburg, Maryland 21632

# Animal Mortality Disposal

Animals die because of disease, injury, or other causes in any confined livestock operation. The mortality rate is generally highest for newborn animals because of their vulnerability.

Catastrophic mortality can occur if an epidemic infects and destroys a large portion of the herd or flock in a short time, or if a natural disaster, such as a flood or excessive heat strikes. There are also incidences when an entire herd or flock must be destroyed to protect human health or other farms in the area.

Methods for managing mortality include:

- 1. Rendering
- 2. Composting
- 3. Incineration\*
- 4. Sanitary landfills
- 5. Burial\*\*
- 6. Disposal pits\*\*

\* Incineration may only be used with proper equipment and permits must be obtained by the producer. \*\* Burial and Disposal pits should only be considered for catastrophic mortality if all other methods are not possible. Marc R. Clopper will follow local and state guidance if it is determined that burial is an acceptable means of disposal.

# **Typical Mortality Management**

Current Normal Mortality Disposal Method(s)

Animal Type	Disposal Method	Number of Bins/Capacity	Location of Disposal/Facility
Poultry	Composting - Bins/Channels	2-16' Channel Style	attached to PWSS

# **Catastrophic Mortality Management**

In the event of catastrophic mortality, the operator will contact the integrator and most likely, follow

an 'in house' or 'in PWSS' windrow method of composting as outlined in UMD-Ext fact sheets #723 and #801. If 'in PWSS' composting is used, MDE must be notified for approval.

# **Biosecurity**

Biosecurity means doing everything possible to protect the health of livestock by preventing the transmission of disease. An outbreak of animal disease could not only harm your livestock, it could affect other nearby animals and quickly spread through your area. The economic consequences of a disease outbreak could be devastating. Taking common sense precautions to prevent disease from coming onto your farm is the best investment you can make.



# How Diseases Spread (Example - Poultry Operation)

### Steps to Take to Avoid Disease Spread

To reduce the risk of introducing disease entering into an animal feeding operation, maintain a biosecurity barrier (physical barrier, personal hygiene, and equipment sanitation) between wildlife, animals, animal containment areas, and other commercial facilities. Some examples of good biosecurity practices include:

- 1. Permit only essential workers and vehicles on the premises.
- 2. Give germs the boot
  - a. Keep a pair of shoes or boots to wear only around your animals.
  - b. Clean and disinfect your shoes often.
  - c. Always ask visitors and employees to clean their boots and shoes.
- 3. Don't haul home disease
  - a. Always clean and disinfect vehicles used for moving animals.
  - b. Limit traffic of incoming people, products and vehicles that could bring in a disease.
  - c. Clean and disinfect all equipment that comes in contact with your animals.
- 4. Keep your farm secure
  - a. Restrict access to your property and animals.
  - b. Keep doors and gates locked.
  - c. Have tracking records on animals.
  - d. Give germs space Newly acquired animals should be isolated for at least two weeks to ensure you don't introduce disease to your main herd or flock. As an added protection, isolate and quarantine new animals for 30 days before putting them with your other animals. Keep show animals segregated for at least two weeks after they've been to a fair or exhibit.
- 5. Look for signs
  - a. Unusual animal health symptoms or behavior
  - b. Sudden, unexplained death loss in the herd or flock
  - c. Severe illness affecting a high percentage of animals

- d. Blisters around an animal's mouth, nose, teats or hooves
- e. Staggering, falling or central nervous system disorders that prevent animals from rising or walking normally.
- f. Large number of dead insects, rodents or wildlife
- 6. Don't wait call in signs of disease immediately. Do not self-diagnose. Seek veterinary services, as early detection is your best protection. If you have animals with signs of suspect disease, call your local veterinarian, UMD extension agent () or the state veterinarian. Rapid response and investigation are the only ways to control and eliminate disease and stop large numbers of casualties or damage to our economic system.

# **Farm Contact Information**

The following tables contain important contact information specific to this CNMP for Marc R. Clopper.

Farm Name	Clopper Farms		
Farm Address	23513 Thawley Rd., Denton, Maryland 21629		
Mailing Address	22719 Thawley Rd, Denton, Maryland 21629		
Directions to the farm	West on Rt. 328 turn right on to Willow Pond Rd. then left onto Thawley Rd. Production area is on your left in a quarter of a mile.		

### **Emergency Contact Information**

### Farm Contacts

	Name	Farm Phone	Cell Phone
Farm Owner	Marc R. Clopper		
Farm Operator	Marc R. Clopper		
Fire or Ambulance		911	

### **State Agency Contacts**

	Phone	Emergency
Natural Resources Conservation Service	410-757-0861	410-757-0861
MDA Nutrient Management	410-841-5959	1-800-492-5590
Maryland Department of the Environment	1-800-633-6101	1-866-633-4686
USDA Veterinary Services State Veterinarian	1-866-536-7593	301-854-5699

# Caroline County Agency Contacts

	Day Phone	Emergency Number
MDA Regional Nutrient Management (Region )	410-479-1202 x3	410-479-1202 x3
Health Department	410-479-8045	410-479-8045
Sherriff's Office	410-479-2515	911
University of Maryland Extension Office (Denton)	410-479-1202 x3	410-479-1202 x3

## **Integrator Information**

Name	Address	Phone
Perdue Farms, Inc.	517 W Main St, Salisbury MD 21801	800-473-7383

# **CNMP POULTRY HQ MAP**

District: CAROLINE SCD

Date: 4/22/2010 Rev'd: 05/078/2025

#### Customer(s): MARC R CLOPPER

Approximate Acres: 211.6 OPID: WPDW-1 F: 2022 T: 226 Operator(s): Clopper Farms Marc R. Clopper

State: Maryland

Assisted By: Carol Middleton, MDA Soil Conservation Planner



### **Conservation Plan Map**

District: CAROLINE SCD

Customer(s): MARC R CLOPPER Approximate Acres: 153.2 Farm 2022 Tract 226 Opid: wpdw-1

Date: 6/8/2007 Assisted By: Alison B Taylor State and County: MD, CAROLINE Field Office: CAROLINE COUNTY SERVICE CENTER





CAROLINE COUNTY SERVICE CENTER 9194 LEGION RD DENTON, MD 21629



1

#### Conservation Plan

MARC R CLOPPER

22719 THAWLEY RD

DENTON, MD 21629

# OBJECTIVE(S)

This plan is updated to reflect the 2022 reenrollment of CP-21 in field 5 totaling 3.2 acres, which include both objectives for water quality and wildlife habitat. The participant must maintain practices per the specifications on the attached Implement Requirements sheet and CRP attachemnet. For the benefit of wildlife, once established, cover shout not be disturbed during theprimary nesting season of April 15 to August 15. Cover shall not be hayed or grazed unless specifically authorized (ex. management or emergency haying and grazing). Participants must also control noxious weeds and invasive species.

Install the conservation practices, enhancements, and activities according to the implementation requirements, designs, construction plans, or other documents that facilitate meeting the applicable NRCS technical criteria. If you do not have such information, contact your local office before starting to install your conservation practices, enhancements, and activities.

#### Crop

#### Tract: 226

#### Amendments for Treatment of Agricultural Waste (591)

A litter amendment will be applied to the poultry house/s to reduce ammonia volatilization and to increase the proportion of nitrogen in the litter, making a more valuable and balanced fertilizer. Some amendments are also effective at reducing phosphorus solubility. Litter amendments can include the following: AL+, liquid AL+, Dry Alum, PLT, and Poultry Guard. See attached check sheet for the proper timing and application of the amendment. Mr. Clopper has 2- 60x500 poultry houses, he raises roasters for Perdue Farms, the bird capacity for each house is 30,000 birds, a total of 60,000 on the farm per flock, this converts to 360 animal units. EQIP FY 08 Contract # 743B1908036

Field	Planned Amount	Month	Year	Applied Amount	Date
HQ	360.00 AU	03	2009		_
Total:	360.00 AU	-		-	

#### Animal Mortality Facility (316)

Construct a composter to provide for the normal daily accumulation of dead birds from the poultry operation. Maintain the structure according to the operation and maintenance plan and in accord with the training provided by the Extension Service.

Field	Planned Amount	Month	Year	Applied Amount	Date
HQ	1.00 No	04	2006	1.00 No	06/08/2007
Total:	1.00 No	-		1.00 No	00/00/2007
				1.00 No	

#### **Comprehensive Nutrient Management Plan (100)**

A Comprehensive Nutrient Management Plan that addresses the handling, storage, and application of animal waste in an environmentally safe manner will be developed and implemented. The implementation of the CNMP is required to remain in compliance of this contract. EQIP CN 743B196A833

Field	Planned Amount	nth 🕥	Year	Applied Amo	Date
HQ	1.00 No	04	2006	1.00 No	08/24/2007
Total:	1.00 No			1.00 No	

# Comprehensive Nutrient Management Plan (102)

Obtain a comprehensive nutrient management plan (CNMP) that describes and documents a conservation system within a conservation plan that is unique to animal feeding operations. The CNMP addresses all aspects of the Animal Feeding Operation including manure handling, nutrient management, feed management, and other conservation practices. Maryland Department of the Environment requires that a CNMP that is developed to meet EPA/MDE CAFO regulatory requirements to control soil erosion and protect water quality must be implemented as scheduled. Any CNMP components that are funded through cost-share programs must also be implemented as scheduled.

Field	Planned Amount	Month	Year	Applied Amount	Date
HQ	1.00 No	03	2010	1.00 No	04/28/2010
Total:	1.00 No			1.00 No	

# Comprehensive Nutrient Management Plan - Applied (103)

All planned practices contained in the written Comprehensive Nutrient Management Plan are applied according to NRCS standards and specifications.

Field	Amount	Month	Year	Applied Amount	Date
HQ	1.00 No	08	2010	1.00 No	08/13/2010
Total:	1.00 No	-		1.00 No	

### Conservation Crop Rotation (328)

Grow crops in a planned rotation for biodiversity and to provide adequate amounts of organic material for erosion reduction, nutrient balance and sustained soil organic matter. Continuous corn under irrigation. Small grain/soybeans outside of the pivot with no-till corn every 2nd year.

Field	Planned Amount	Month	Year	Applied Amount	Date
1	3.1 Ac	03	2010	3.1 Ac	04/28/2010
Total:	3.1 Ac			3140	

#### Conservation Crop Rotation (328)

These fields will be farmed in a crop rotation that reduces erosion, improves soil quality, and helps to break up pest cycles. Use a crop rotation of: Corn, Small Grain, Soybeans.

Field	Planned Amount	Month	Year	Applied Amount	Date
2	94.0 Ac	07	1999	94.0 Ac	07/12/1999
3	13.3 Ac	07	1999	13.3 Ac	07/12/1999
4	32.1 Ac	07	1999	32.1 Ac	07/12/1999
Total:	139.4 Ac	-		139.4 Ac	

## Early Successional Habitat Development-Mgt (647)

Early Successional Habitat - Manage plant succession to develop and maintain early successional habitat that benefits desired wildlife and /

or	natural	communities.

Field	Planned Amount	Month	Year	Applied Amount	Date
5	3.2 Ac	01	2023		
Total:	3.2 Ac				

100

15

#### Early Successional Habitat Development-Mgt (647)

MGMT - Overseeding Legumes on CSG - This land is enrolled in CRP/CREP and is to be maintained in cool-season grass and legume cover. Conduct overseeding of legumes as the required management activity to maintain the legume component of the cover for wildlife. Refer to the attached Implementation Requirements sheet for specific instructions. Do not overseed during the primary nesting season (April 15 - August 15).

Field	Planned Amount	Month	Year	Applied Amount	Date
5	3.2 Ac	01	2019	8	-
Total:	3.2 Ac	-		-	-

#### Filter Strip (393)

This area will be enrolled in the CREP buffer program. Establish and maintain an approved mix of cool-season grasses on land adjacent to water courses and wetlands in order to reduce soil erosion and sedimentation, improve water quality, and create or enhance wildlife habitat. Haying and grazing is prohibited in the buffer zone. Refer to the job sheet and it's attachments for establishment and maintenance requirements. Widths and locations are as noted on the conservation plan map.

Field	Planned Amount	Month	Year	Applied Amount	Date
5	3.2 Ac	01	2002	3.2 Ac	12/31/2002
Total:	3.2 Ac	-	-	3.2 Ac	-

#### Heavy Use Area Protection (561)

Protect heavily used areas by providing soil protection with vegetation, surfacing material or mechanical structures. Poultry pads will be installed at each end of the poultry houses for a total of 4 pads. EQIP standard is a 14' x 30' pad. Owner wants a 40' x 40' pads and will increase the pad size at own cost. EQIP CN 743B196A507

Field	Planned Amount	Month	Year	Applied Amount	Date
HQ	0.1 Ac	04	2006	0.1 Ac	07/19/2006
Total:	0.1 Ac	-		0.1 Ac	-

#### Irrigation Water Management (449)

Control the rate, amount and timing of irrigation water to minimize soil erosion and control water loss from runoff and deep percolation. Mr. Clopper will not recieve IWM payments through EQIP FY08, because he is already recieving a payment from CSP. However he will be required to document water usage to NRCS yearly for 2009,2010,2011. EQIP FY08 Contract # 743B1908036

Field	Planned Amount	Month	Year	Applied Amount	Date
2	56.0 Ac	03	2009		
4	24.0 Ac	03	2009		
Total:	80.0 Ac	<u></u>		-	-

#### Nutrient Management (590)

Apply nutrients in amounts to meet crop need a seased on a realistic (5 year average) yield goal. Apply anure and commercial fertilizer according to a nutrient management plan. To obtain this plan, contact a nutrient management consultant at the Cooperative Extension Office (410-479-4030), or contact a private certified consultant.

Field	Planned Amount	Month	Year	Applied Amount	Date
2	94.0 Ac	07	1999	94.0 Ac	07/12/1999
3	13.3 Ac	07	1999	13.3 Ac	07/12/1999
4	32.1 Ac	07	1999	32.1 Ac	07/12/1999
1	3.1 Ac	03	2010	3.1 Ac	04/28/2010
Total:	142.5 Ac	:		142.5 Ac	

#### Nutrient Management (590)

For CRP/CREP land, the use of commercial fertilizer and other forms of plant nutrients must be in compliance with Maryland nutrient management regulations, as applicable. For additional information, consult your local Cooperative Extension Specialist or certified nutrient management consultant.

Field	Planned Amount	Month	Year	Applied Amount	Date
5	3.2 Ac	05	2012	3.2 Ac	05/24/2012
Total:	3.2 Ac	-		3.2 Ac	-

#### Pest Management Conservation System (595)

Manage CREP plantings to control competition and/or damage from weeds, insects or nuisance wildlife. Follow the recommendations included in the job sheet. All chemicals shall be applied in accordance with the manufacturer's recommendations on the label and Maryland state law.

Field	Planned Amount	Month	Year	Applied Amount	Date
5	3.2 Ac	01	2002	3.2 Ac	12/31/2002
Total:	3.2 Ac			3.2 Ac	-

#### Residue and Tillage Management, No Till (329)

Manage organic residue so maximum amounts are left on the soil surface on a year-round basis. Plant crops in narrow slots or narrow tilled strips in previously untilled soil.

Field	Planned Amount	Month	Year	Applied Amount	Date
2	94.1 Ac	07	1999	94.1 Ac	07/12/1999
1 3.0 Ac		05	2012	3.0 Ac	05/24/2012
Total:	97.1 Ac	-		97.1 Ac	

#### Residue Management, No-Till/Strip Till (329A)

Manage organic residue so maximum amounts are left on the soil surface on a year-round basis. Plant crops in narrow slots or narrow tilled strips in previously untilled soil.

Field	Planned Amount	• hth	Year	Applied Amo	Date
3	13.3 Ac	07	1999	13.3 Ac	07/12/1999
4	32.1 Ac	07	1999	32.1 Ac	07/12/1999
Total:	45.4 Ac	-		45.4 Ac	-

#### Riparian Herbaceous Cover (390)

Basic Riparian Herbaceous Cover - Plant vegetation tolerant of intermittent flooding or saturated soils in the transitional zone between upland and aquatic areas to achieve one or more of the following purposes: maintain or improve water quality; increase water storage on floodplains; reduce erosion and improve stability to stream banks and shorelines; increase net carbon storage in the biomass and soil; dissipate stream energy and trap sediment; and enhance stream bank protection.

Field	Planned Amount	Month	Year	Applied Amount	Date
5	3.2 Ac	10	2022 *	3.2	10/1/2022
Total:	3.2 Ac	-		-	-

#### Riparian Herbaceous Cover (390)

This area will be re-enrolled in CREP CP-21. Maintain the approved cool-season grass mix to protect soil and water resources and enhance wildlife habitat on land removed from agricultural production. Refer to the attached job sheet for recommended seed mixes and other planting and establishment information. Once established, do not mow during the primary nesting season of April 15 to August 15. Noxious weeds must be controlled as required by State Law. If necessary, spot treatment of noxious weeds (mowing or spraying limited to the immediate area of infestation) may be authorized by the Farm Service Agency County Office. Refer to the job sheet for additional information on routine maintenance and required mid-contract management practices.

Field	Planned Amount	Month	Year	Applied Amount	Date
5	3.2 Ac	10	2012	3.2 Ac	05/24/2012
Total:	3.2 Ac	-	-	3.2 Ac	

#### Sprinkler System (442)

Upgrade an existing center pivot system for increased water efficiency. Mr. Clopper plans to replace the tips on an existing center pivot system. The system is located in field 2. The system wets a total of 80 acres, 56 acres in field 2 and 24 acres in field 4. EQIP FY08 Contract # 743B1908036

Field	Planned Amount	Planned Month Amount		Applied Amount	Date	
2	56.0 Ac	56.0 Ac 03	03	2009	-	-
Total:	56.0 Ac	-		-	-	

#### Upland Wildlife Habitat Management (645)

The CREP enrolled acreage shall be established and maintained in vegetative cover beneficial to upland wildlife. Follow maintenance recommendations included on the job sheet. Note that after full establishment (usually year 3), maintenance is restricted during the nesting season from April 15 to August 15.

Field	Planned Amount 3.2 Ac	Month	Year	Applied Amount	Date
5		01	2002	3.2 Ac	12/31/2002
Total:	3.2 Ac	-	-	3.2 Ac	-

# Waste Recycling (633)

Appropriate use of agricultural waste on the land a manner which will improve soil resources without adding soil or water. Animal waste is applied in accordance with the NMP.

Field	Planned	Month			
	Amount	month	Year	Applied Amount	Data
2	94.1 Ac	05			Date
3	13.1 Ac	00	2012	2012 94.1 Ac	05/04/05
0		05	2012		03/24/2012
4	31.9 Ac	05		13.1 Ac	05/24/2012
Total	120.1.1	05	2012 31.9 Ac	05/24/2040	
	139.1 Ac			120.1.4-	03/24/2012

# Waste Storage Facility (313)

Construct a waste storage structure according to NRCS standards and specifications at the location as shown on the conservation plan map. Structure is designed to safely store manure until it is safe to apply to the land in accordance with the waste management plan. Follow proper operation and maintenance techniques as specified in the plan.

Field Planned		Month				
	Amount	Month	Year	Applied Amount	Date	
HQ	1.00 No	04				
Total	1001	04	2006	1.00 No	06/08/2007	
rotal,	1.00 No			1.00 No		

# Windbreak/Shelterbelt Establishment and Renovation (380)

Plant single or multiple rows of trees or shrubs. Two rows of Loblolly and one row of White pine seedlings will be planted by the Forest Service for a total of 0.7 acres. See planting plan in the white engineering folder in the conservation folder. All contract paperwork is kept in the DC's office and the DC will provide the jobsheets and obtain all necessary signatures. EQIP CN: 743B196A506.

Field	Planned	Manut		T		
	Amount	wonth	Year	Applied Amount	Date	
HQ	842.00 Ft	04	2006	842.00 Ft	07/40/0000	
Total:	842.00 Ft	-		842.00 Et	07/19/2006	
				042.00 Ft		

CERTIFICATION OF PARTICIPANTS R Closen 9-Man MARC R CLOPPER CERTIFICATION OF: CONSERVATION DISTRICT 2/22/2027 DATE 1 -1 CERTIFIED PLANNER DATE CAROLINE 8/22/22 DATE 0,000 91 Shi 12022 DISTICT CONSERVATIONIST CYNTHIA N CLOPPER DATE Man K (184 9-9-2022 CLOPPER FARMS INC DATE

#### PUR BURDEN STATEMENT

According to the Paperwork Reduction Act of 19 an agency may not conduct or sponsor, and a person and required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collections is 0578-0013. The time required to complete this information collection is estimated to average 45/0.75 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection information.

#### PRIVACY ACT

The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C 522a). Furnishing this information is voluntary; however failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

#### USDA NON-DISCRIMINATION STATEMENT

The U.S. Department of Agriculture (USDA) prohibits discrimination against its customers. If you believe you experienced discrimination when obtaining services from USDA, participating in a USDA program, or participating in a program that receives financial assistance from USDA, you may file a complaint with USDA. Information about how to file a discrimination complaint is available from the Office of the Assistant Secretary for Civil Rights. USDA prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex (including gender identity and expression), marital status, familial status, parental status, religion, sexual orientation, political beliefs, genetic information, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) To file a complaint of discrimination, complete, sign, and mail a program discrimination form, available at any USDA office location or online at <u>www.ascr.usda.gov</u>, or write to:

USDA Office of the Assistant Secretary for Civil Rights

1400 Independence Avenue, SW.

Washington, DC 20250-9410

Or call toll free at (866) 632-9992 (voice) to obtain additional information, the appropriate office or to request documents. Individuals who are deaf, hard of hearing, or have speech disabilities may contact USDA through the Federal Relay service at (800) 877-8339 or (800) 845-6136 (in Spanish). USDA is an equal opportunity provider, employer, and lender. Persons with disabilities who require alternative means for communication of program information (e.g., Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

ε



# SOILS MAP OVERLAY

District: CAROLINE SCD

Date: 4/22/2010

Customer(s): MARC R CLOPPER Approximate Acres: 211.6 OPID: WPDW-1 F: 2022 T: 226

SaA

= streets

Operator(s): Neal Farms, Inc









Page 1 of 1

# Soils Inventory Report

## MARC R CLOPPER

Map Unit Symbol	Acres	Percent
FaA	79.1	39%
HbA	48.3	24%
HbB	55.8	28%
HcA	18.6	9%
SaA	0.1	0%
Total:	201.9	

20 file://C:\Documents and Settings\Carol.middleton\My Customer Files Toolkit\CLOPPER\_... 4/26/2010





## Map Unit Description (Brief)

Caroline County, Maryland

[Only those map units that have entries for the selected description categories are included in this report]

Map unit: FaA - Fallsington sandy loam, 0 to 2 percent slopes

#### Description category: SOI

Fallsington, undrained component makes up 40 percent of the map unit. Farmland of statewide importance, The assigned Kw erodibility factor is 0.02. This soil is poorly drained. The slowest permeability within 60 inches is moderate. Available water capacity is very high and shrink swell potential is low. This soil is not flooded and is occasionally ponded. The top of the seasonal high water table is at 5 inches. There are no saline horizons. It is in nonirrigated land capability class 4w. This component is a hydric soil.

Fallsington, drained component makes up 40 percent of the map unit. Farmland of statewide importance. The assigned Kw erodibility factor is 0.24. This soil is poorly drained. The slowest permeability within 60 inches is moderate. Available water capacity is very high and shrink swell potential is low. This soil is not flooded and is rarely ponded. The top of the seasonal high water table is at 14 inches. There are no saline horizons. It is in the irrigated land capability class 3w. It is in nonirrigated land capability class 3w. This component is a hydric soil.

Map unit: HbA - Hambrook sandy loam, 0 to 2 percent slopes

#### Description category: SOI

Hambrook component makes up 80 percent of the map unit. All areas are prime farmland. The assigned Kw erodibility factor is 0.24. This soil is well drained. The slowest permeability within 60 inches is moderate. Available water capacity is very high and shrink swell potential is low. This soil is not flooded and is none ponded. The top of the seasonal high water table is at 45 inches. There are no saline horizons. It is in the irrigated land capability class 1 It is in nonirrigated land capability class 1. This component is not a hydric soil.

Map unit: HbB - Hambrook sandy loam, 2 to 5 percent slopes

#### Description category: SOI

Hambrook component makes up 80 percent of the map unit. All areas are prime farmland. The assigned Kw erodibility factor is 0.24. This soil is well drained. The slowest permeability within 60 inches is moderate. Available water capacity is very high and shrink swell potential is low. This soil is not flooded and is none ponded. The top of the seasonal high water table is at 45 inches. There are no saline horizons. It is in the irrigated land capability class 2e. It is in nonirrigated land capability class 2e. This component is not a hydric soil.





Ben Grumbles, Secretary Horacio Tablada, Deputy Secretary

# **AFO RESOURCE CONCERNS EVALUATION WORKSHEET**

Name:		Marc R. Clopper			Agency Interest #:	67908		
Pla	inner:	Tara Krick			Farm # / Tract #:	2022 / 226		
Site Visit Date: 9			2023		Total Acres:	211.6		
Co	County: Caroline Production Area Acres: 8				8			
RE	SOURCE CONCERN	YES	NO		Assessment			
a.	Biosecurity measures			The operator is follow and MDA Animal Heal	ing biosecurity measures as outline th.	ed by the integrator		
b.	Chemical handling			Chemicals related to p designated storage ar	poultry production are stored in the rea.	appropriate		
c.	Cultural resources		2	The production area is disturbance activities	s established and there are no prop scheduled for the area.	osed ground		
d.	Feedlot area			Not Applicable - no fee	edlot area.			
e.	Floodplains			This is an existing ope FEMA-100 Year Flood	eration and the production area is r plain as per the on-line resources a	ot located in the vailable.		
f.	Gully erosion			No gully erosion was identified in the production area or associated water conveyances.				
g.	Livestock travel lanes	Π	2	Not Applicable.				
h.	Nutrient discharge			There are no observable nutrient discharges occurring from the production area.				
i.	Objectionable odors	Γ	7	Normal poultry or livestock odors associated with this the type of operation or facility were noted.				
j.	Particulate matter emissions			Normal particulate em	nissions associated with a facility of	this size.		
k.	Ponding, flooding, seasonal high water table			No abnormal ponding,	, flooding or high water table issue	s were identified.		
l.	Sediment			No obvious and obser production area.	vable sediment discharges are occ	urring from the		
m.	Streambank/shoreline erosion			No streambank or sho	reline areas are present in the pro	duction area.		
n.	Threatened/endangered species			No geospatial indicato	ors have been identified on the prod	duction area.		
0.	Waste storage			There are no resource storage facilities are a the waste manageme	concerns identified for waste stora idequately sized for the operation a nt system plan.	age. Existing waste and are consistent with		
p.	Waterways	V		This is an existing operation and Maryland regulated waterways have been identified on the property and are within 100 feet from the production facilities. The location of the regulated waterway is near the B ends of houses 1 and 2. However management practices are in place to protect the waterway (HUA pads, vegetated buffer).				
q.	Wetlands		2	Maryland regulated w 100 feet from the pro- required BMPs. No fur	etlands have been identified on the duction facilities. This is an existing ther action is required.)	e property greater than a facility with all		

1800 Washington Boulevard | Baltimore. MD 21230 | 1-800-633-6101 | 410-537-3000 | TTY Users 1-800-735-2258 www.mde.maryland.gov

# Implementation Schedule for Farmstead

This element addresses the need for and implementation of appropriate conservation practices to meet the quality criteria for soil erosion, air and water quality.

#### Practice and Facility Implementation Schedule

Description	Date
All resource concerns have been addressed and no additional best management practices are recommended or required at this time.	September 2023

The schedule of conservation practices presented here has been reviewed by Marc R. Clopper, who is responsible for compliance with the requirements of the agricultural farm operation.

I, Marc R. Clopper, certify that as the decision-maker, I have been involved in the planning process and agree that the items/practices listed in the table above are needed on my farm operation. I understand that I am responsible for implementing these practices according to the scheduled above. Should I not be able to implement any of the above items according to the schedule, I will contact the Queen Anne's Soil Conservation District and have this schedule revised.

Marc R. Clopper

# **Operation and Maintenance for BMP's in Farmstead**

This section addresses the operation and maintenance for the structural, non-structural, and land treatment measures for your farm. These documented measures require effort and expenditures throughout the life of the practice to maintain safe conditions and assure proper functioning. Operation includes the administration, management, and performance of non-maintenance actions needed to keep a completed practice safe and functioning as planned. Maintenance includes work to prevent deterioration of practices, repairing damage, or replacement of the practice if one or more components fail.

# Waste Storage Facility (313)

Check backfill areas around the structure (concrete, steel, timber, etc.) frequently for excessive settlement. Determine if the settlement is caused by backfill consolidation, piping, or failure of the structure walls or floor. Necessary repairs must be made.
Check walls and floors often - minimum of 2 times a year when facility is empty - for cracks and/or separations. Make needed repairs immediately.

• Outlets of foundations and sub-drains should be checked frequently and kept open. The outflow from these drains should be checked when the facility is being used to determine if there is leakage from the storage structure into these drains. Leakage may be detected by the color and smell of the out-flowing liquid, by lush dark-green growth of vegetation around the outlet, by the growth of algae in the surface ditch, or by the vegetation being killed by the out-flowing liquid. If leakage is detected, repairs should be planned and made to prevent the possible contamination of groundwater. To prevent erosion, a good vegetative cover should be established and maintained on berms and embankments. Plantings should be clipped 3 times a year to kill noxious weeds and encourage vigorous growth. If the vegetation is damaged, berms and embankments will need to be re-vegetated as soon as possible.

• Fences should be inspected and maintained in order to exclude livestock from the berms and embankments and to exclude unauthorized entry by people.

• Check the channels and berms of the clean water diversions around the barnyard, buildings and storage structure frequently. Channels must be protected from erosion and berms must be maintained at the proper height to ensure adequate capacity.

These channels and berms should not be used as haul roads unless they are designed and constructed for this purpose.Check frequently for burrowing animals around buildings, structures, and in the berms and embankments. Remove them when they are found and repair any damage.

• Inspect haul roads and approaches to and from the storage facility frequently to determine the need for stone, gravel or other stabilizing material.

- Do not allow runoff from loading areas and from spills to flow into streams or road ditches.
- Examine and repair all warning and hazard signs as needed.
- Install and maintain a marking gauge post that clearly shows the design levels of one-half and full for manure storage pits, ponds, and lagoons.
- Clear blockages from roof gutters and outlets as needed.
- Notify the Soil Conservation District of any major problems or repairs needed.

• The roof must be maintained to operate as intended for the life of the practice (15 years). The function of the roof is critical because the manure storage facility is sized accordingly.

# **Animal Mortality Facility (316)**

• Facilities for normal mortality will be operated or used on a regular basis. At each operation or use, inspect the facility to note any maintenance needs or indicators of operation problems, and promptly make repairs or adjustments to operation of the facility.

- Follow the management plan requirements for:
- The mix proportions, moisture requirements, and materials used.
- The sizing requirements.
- The timing of the disposal/utilization process including loading, unloading, and turning or aeration of the material.
- Temperature monitoring requirements, including a temperature log.
- What must be done to prevent scavenging animals and leachate problems.
- Bio-security requirements.

• If catastrophic mortality occurs, contact NRCS or the Soil Conservation District for assistance concerning proper disposal of the mortality.

# Heavy Use Area Protection (561)

- Inspect the Heavy Use Area at least twice a year and after severe storm events.
- Scrape the surface as needed to remove excess manure and/or sediment.
- Repair paved areas by repairing holes and replacement of paving materials.

• Replace loose surfacing material such as gravel, cinders, sawdust, tanbark, etc. as needed when removed by livestock, equipment traffic, or scraping.

- Repair any deteriorating areas.
- Maintain all vegetation that is part of the plan by fertilizing and liming according to soil test recommendations and reseeding or replanting as necessary.
- Inspect inlets and outlets of pipes and culverts and remove any obstructions present.
- Maintain flow into filter areas by removing accumulated solids, reconstructing waterbars, etc.

# Amendments for Treatment of Agricultural Waste (591)

• The use of amendments must be consistent with the purposes of the practice, safety considerations, label directions, and other instructions provided by the vendor.

- Follow required safety precautions when handling the specific chemicals or biological amendments.
- Use record keeping worksheets to document the product applied, the date, location, rate, and method of application.

# SECTION 3: Land Treatment Area (Crop and/or Pasture)

This element addresses evaluation and implementation of appropriate conservation practices on sites proposed for land application of manure and organic by-products from an Animal Feeding Operation. On fields where manure and organic byproducts are applied as beneficial nutrients, it is essential that runoff and soil erosion be minimized to allow for plant uptake of these nutrients.

# This CNMP is considered a "No Land" plan, therefore no additional documents have been included in this section.

# **SECTION 4: Nutrient Management**

This element addresses the Nutrient Management component of the CNMP. The nutrient management plan is developed by a Maryland Department of Agriculture certified nutrient management consultant.

# Soil Sampling and Testing

Maryland Department of Agriculture regulations require up-to-date soil analyses be included in the Nutrient Management Plan. To fulfill this requirement you must follow these guidelines:

- 1. Soil test(s) are required to be taken every 3 years or sooner for each management unit;
- 2. It is recommended that soil sampling be conducted consistently at the same time of the year;
- 3. Soil sampling depth for P and K shall be 8 inches;
- 4. pH testing sampling depth for no-till is only 4 inches.

Soil testing shall include analysis for any nutrients for which specific information is needed to develop the plan. The minimum analysis for Maryland is to include: <u>pH, organic matter, phosphorus, potassium, calcium, magnesium, and CEC</u>.

# Manure and Wastewater Testing/Analysis

Maryland Department of the Environment and the Environmental Protection Agency require an analysis of manure generated on your operation be obtained to meet conditions in a General Discharge Permit for Animal Feeding Operations under CAFO regulations. If you land-apply manure, it is a required component of your NMP according to MDA regulations. To fulfill this requirement you may do one of the following:

- 1. Collect a sample of manure and obtain an analysis OR
- 2. If exported, obtain a copy of the manure analysis from one of the farmers who will be receiving the manure from your operation

Manure should be analyzed on an annual basis from each storage structure for: % Solids or % Moisture, Total N, Organic N,  $NH_4$  or  $NH_3$ ,  $P_2O_5$ ,  $K_2O$ , and pH. These analyses are part of the required Record Keeping and are stored under the Record Keeping element of this CNMP.

# **Description of Chemical Handling:**

1. All chemicals are stored in proper containers. Expired chemicals and empty containers are properly disposed of in accordance with state and federal regulations. Pesticides and associated refuse are disposed of in accordance with the FIFRA label.

# NUTRIENT MANAGEMENT PLAN

Prepared for

# MARC CLOPPER 22719 THAWLEY ROAD DENTON, MD 21629

Prepared By

<u>Todd A. Keen</u> Certified Nutrient Management Planner MD Certification #: 1557 MD License #: 2025 TAKKEEN@COMCAST.NET

PLAN PERIOD: 10/2023 - 10/2026



26229 Prettyman Road Georgetown, DE 19947 (302) 684-5270



# **Information Summary**

*Operator:* Marc Clopper 22719 Thawley Road Denton, MD 21629 (410) 924-1834

Site Address: 23515 Thawley Road Denton, MD 21629

County: Caroline

Watershed: 0073

Account ID#: Parcel Acres: 211.6 Tillable Acres: N/A

Plan Type: Animal Waste Management Plan (No land application plan)

Animal Type: Poultry/Roaster

Animal Number: 54,400 per cycle, 217,600 annually (4 Flocks)

Manure Storage Facility: Shed 50' X 80'

Dead Animal Disposal Method: Animal Mortality Facility (Composter)

*Manure Receiver:* Neal Farms Partnership 7275 Federalsburg, Highway Federalsburg, MD 21632

Manure Amount Transferred: All (See Estimation Sheet)

*Notes:* Producer exports all manure generated in this operation.



# COMMENTS ON PLAN IMPLEMENTATION, UPDATING AND MAINTENANCE REQUIREMENTS

Maryland regulations require that certified nutrient management planners prepare Nutrient Management Plans (NMP) that meet guidance provided by University of Maryland and the Maryland Department of Agriculture. In so doing, this may result in NMP's that do not address nutrient management planning from the best economic viewpoint.

### General:

Please review your Nutrient Management Plan (NMP) and contact us with any questions or concerns

#### **Update Requirements:**

This plan should be modified if any of the following occur:

- Changes in animal numbers (10% increase) or types
- Changes in manure handling or storage procedures

#### Manure Handling & Storage Guidelines:

**Manure should be sampled annually** to determine average nutrient content for each manure type utilized in the operation. A copy of the manure analysis is to be provided to any receivers of the manure.

Farm storage of manure (solid) must be:

- Placed on an impermeable surface (cement pad or compacted clay base) that is covered
- Contact your Soil Conservation District for advice on design and cost share programs for storage structures if you do not have storage or require additional storage capacity

Handling & Spreading:

- Reasonable effort should be made to minimize odors from the storage and transportation of manures
- If your operation is subject to regulations governing Maryland Animal Feeding Operations (MAFO) or Concentrated Animal Feeding Operations (CAFO), then you may be subject to additional manure handling guidelines. Consult your CAFO/MAFO documentation for guidance.

### **Erosion & Runoff Control:**

Best Management Practices should be utilized to minimize soil erosion and runoff which can carry nutrients to surface waters (vegetative buffer strips around drainage ditches and surface waters are a good example). Advice on soil erosion control can be obtained through your Soil Conservation District

#### **Record Keeping Requirements:**

- Nutrient Management Plans (NMP)
- Animal waste generation estimations, measurements, and applications
- Documentation to justify any changes from the written nutrient management plan



### POULTRY LITTER QUANTITY ESTIMATE

	Name:		Tract / Farm:				
	Marc Clop	per	Duffy	Date:	10/5/2023		
#	Houses included:	2	В	ird type:	Roaster		
		Avera	ge Bird Market We	ight (lbs):	9.25		
A.	Years between to	tal cleanouts:			7		
Β.	B. Total # of birds per flock (for all houses on this cleanout cycle):						
C.	C. Flocks per year						
D.	D. Number of flocks per cleanout cycle (A x C):						
E.	E. Estimated tons of cake/crust per 1000 birds per flock: *						
F.	F. Estimated tons of litter + cake/crust per 1000 birds per flock: *						
G.	Tons cake/crust p	roduced per flock	(B x E/1000):		11		
H.	Tons cake/crust p	roduced per cycle	(G x D)		305		
d.	. Tons litter + cake/crust produced per cycle (B x D x F/1000):						
J.	Tons of litter produced per cycle (less cakeout/crustout) (I - H):						
K.	Tons of litter produced per year (less cakeout/crustout) (J/A):						
L	Tons of litter + ca	ke/crust produced	per year (I/A)		393		

CONSULTING 26229 Prettyman Road Georgetown, DE 19947 (302) 684-5270

\* 2007 Delmarva Poultry Litter Production Estimates, George W. Malone, University of Delaware, Georgetown Delaware.

#### Quantity of Poultry Litter, Cake/Crust Available per Year

	M	N	0	Р	Q	R	S	Т
	Tons of litter		% of partial or			***		
	remaining	Total	total litter to be	Tons of	Flocks	Tons	Tons	Tons litter +
	in the house	tons of litter	removed this year	litter	this	Cake/Crust	Cake/Crust	cake/crust
	from last year	present in the	in excess of	removed	Year	Produced	removed	removed
Year	(N-P) + (R-S)	house this year	cakeout/crustout	this year		this Year	this Year	this year
	(previous year)	(K) + (M, this year)	(enter % of N removed)	(N x O)/100		(Q x G)		(P + S)
1	0	350	0	0	4	44	44	44
2	349	699	30	210	4	44	44	254
3	489	839	30	252	4	44	44	296
4	587	937	30	281	4	44	44	325
5	655	1,005	30	302	4	44	44	346
6	703	1,053	30	316	4	44	44	360
7	737	1,087	100	1,087	4	44	44	1,131
3		AD 200		2,447	28	305	308	2,755

Wastes Storage Structure(s):	50' X 80' On Site		Animal Mortality Facilty:	On Site - Attached	
	Last Tot	al Cleanout:	2022		

Primarily windrowing between flocks. Centercuts performed annually.

Animal wastes generated on this farm are stored in the waste storage structure(s) and/or transported/exported as conditions warrant.

\* This estimation is provided to comply with Nutrient Management Regulations. Manure amounts utilized within the NMP are from producer records and are not necessarily consistent with amounts shown in this estimation.

Operators are advised to follow Best Management Practices (BMP's) when handling and storing manures. Please refer to the Comments on Plan Implementation, Updating and Maintenance Requirements (Manure Handling & Storage Guidelines Section) included in your Nutrient Management Plan (NMP).

\*\*\* Cake/Crust not removed due to windrowing, is added with the litter remaining in the house the following year. Windrowing may likely result in actual quantities of litter being less than the estimates shown here. The actual amount of Cake/Crust removed may also be less than the estimated amounts produced due to improved drinker systems, ventilation, etc.

Agricultural Nutrient Management Program - (301) 405-1319 - ENST - 0116 Symons Hall - College Park, MD 20742 Local Governments, US Department of Agriculture Equal Opportunity Programs

revised 3/12/10

### **BROOKSIDE LABORATORIES, INC.**

\*\*Manure Analysis Report \*\*

Neal Farms Inc. 7275 Federalsburg Highway Federalsburg	MD	21632		File Number: Date Received: Date Reported:	19327 2/21/2023 2/23/2023
Lab Number Sample Description		1	719 MARC		
	% Dr Basi	γ 5	% Wet Basis	lbs per ton	

	Basis	Basis	ton
Moisture		11.80	236.00
Mineral Matter	42.71	37.67	753.40
Lost By Ignition (Organic Matter)	57.29	50.53	1,010.60
Total Nitrogen	3.21	2.835	56.70
Ammonia-N (NH4-N)	0.24	0.214	4.28
Nitrate-N (NO3-N)	0.03	0.026	0.52
Organic-N	2.94	2.595	51.90
Phosphorous (P)	0.85	0.751	15.02
Phosphorous as (P205)	1.95	1.721	34.42
Potassium (K)	2.85	2.514	50.28
Potassium as (K20)	3.43	3.028	60.56

### Plant Available Nitrogen (PAN) Calculations:

Year 1 - Time to	Conventional	Conservation	No	1			
Incorporation	Tillage	Tillage	Till				
< 1 day	30.62	30.11					
1-2 days	30.41	29.98					
3 days	30.24	29.89					
4 days	30.07	29.81	20.55				
5 days	29.94	29.77	29.55				
6 or 7 days	29.77	29.68		lbs/ton			
8 -14 days	29.64	29.59					
> 14 days	29	.55		.			
Year 2			1				
Year 3		4.15					
Year 4		2.08					
If incorporating, MDA requires incorporation within 48 hrs							

\* PAN figures are based upon guidance provided by the University of Maryland.\*



MARC CLOPPER 22719 THAWLEY ROAD DENTON, MD 21629

1000

LOCATION OF POULTRY HOUSES & MANURE STORAGE STRUCTURE 23513 THAWLEY ROAD



CAROLINE COUNTY WATERSHED #0073

# **SECTION 5: Additional Documentation**

*This section is included if there are additional documents needed for the Comprehensive Nutrient Management Plan.* 

## The following documents are located in this section:

- Monthly Animal & Mortality Count Weekly
- Storage Form
- Manure Litter Storage Form
- Manure Litter Transfer Form
   Daily Waterline Form

Water Conveyance map is shown on page 9 Poultry Litter Estimates shown on page 31

Туре	Maintain Records of:	Frequency	Applicable to Liquid/Dry Manure Handling or Both
Land & No-Land	Any transfers of manure, litter, and process wastewater, will include the following information: 1.) Name and address of recipient and 2.) Date and quantity transferred. The permittee shall supply the recipient of the animal waste with the most recent annual nutrient analysis of the manure, litter, or process wastewater. If the recipient performs the analysis, the permittee shall obtain a copy and maintain it as part of the permittee's records.	Each occurrence	Both
Land	Each application event where manure, litter, or process wastewater is applied. Including 1.) Fields where animal waste is distributed, using field names consistent with those in the required plan, 2.) Application method, rate, time and date, 3.) Soil conditions, including instances of ponding or runoff, saturated soil, and frozen ground or snow covered ground and 4.) Weather conditions, including precipitation and temperature at the time of application and precipitation 24 hours prior to, and following, application.	Each land application event	Both
No-Land	Manure samples shall include the following information, 1.) Date sample taken, 2.) Test methods used to sample and analyze manure, litter, and process wastewater; and 3.) Results from manure, litter, and process wastewater sampling.	Annually	Both
Land & No-Land	Mortality disposal including date, numbers of animals, and method of disposal	As necessary	Both
Land & No-Land	Inspections conducted, including date, of the animal waste storage areas	Weekly	Both
Land	The results of manure samples and soil samples, including the following information, 1.) Date sample taken, 2.) Test methods used to sample and analyze manure, litter, process wastewater, and soil, 3.) Results from manure, litter, process wastewater, and soil sampling and 4.) Total amount of nitrogen and phosphorus actually applied to each field, including documentation of calculations for the total amount applied.	Annually for manure samples, at least once every three years for soil samples	Both
Land	Manure application equipment inspections, including the following information, 1.) Date inspection conducted and 2.) Calibration date; and iii. Maintenance of equipment used for manure application.	At least annually	Both
Land & No-Land	Inspections, including date, of the storm water routing structures	Weekly	Both
Land & No-Land	Inspections, including date, for all indoor and outdoor water lines, including drinking or cooling water lines	Daily	Both
Land & No-Land	The depth of manure and process wastewater, including date of reading, as indicated by the depth marker in all liquid animal waste impoundments	Weekly	Liquid
Land & No-Land	Inspections, including date, of all wastewater operations and pumps	Weekly	Liquid
Land & No-Land	All manure, litter, and wastewater storage structures including the following information, 1.) Date inspection conducted, 2.) Volume for solids accumulation, 3.) Design treatment volume, 4.) Total design storage volume, 5.) Days of storage capacity and 6.) Structural stability inspection of all earthen embankment structures.	As necessary	Liquid
Land & No-Land	Any additional self – inspection and recordkeeping activities required by this General Permit	As necessary	Both

#### Self-Inspection and Recordkeeping for CAFOs/MAFOs that DO NOT Land Apply (No-Land Operations):

The permittee that transports all and/or some of its manure, litter, or process wastewater to an area that is not under the control of the owner or operator of the no-land operation shall maintain no-land operation records on-site for five years. The records shall be available for inspection by the Maryland Department of the Environment personnel upon request. The record shall also include a notation of periods when the facility is not in operation (out of production).

MONTHLY ANIMAL & MORTALITY COUNT								
Farm Name	e: Clopper Farms	Ye	ear:					
Operator:	Marc R. Clopper							
Month	Animal Count and Weight	Mortality	Mortaliy %	Comments				

Г



# Weekly Storage and Containment Structure Inspections Log Sheet

Facility Name: \_\_\_\_\_ NPDES Permit No.: \_\_\_\_\_

Instructions:

Use this form to keep records of weekly visual inspections of the structures you use to store or contain manure/litter/process wastewater. Use a separate form for each structure.

\*Any deficiencies observed must be corrected within 30 days

# Storage or Containment Structure:

	Date	Initials	Depth Marker Reading (N/A for dry manure handling)	OK (√ if no problems)	<b>Description of any Deficiencies</b> <b>Observed</b> (put "N/A" if none observed)	Date Deficiency Corrected*
Week 1						
Week 2						
Week 3						
Week 4						
Week 5						
Week 6						
Week 7						

	Date	Initials	Depth Marker Reading (N/A for dry manure handling)	OK (√ if no problems)	<b>Description of any Deficiencies</b> <b>Observed</b> (put "N/A" if none observed)	Date Deficiency Corrected*
Week 8						
Week 9						
Week 10						
Week 11						
Week 12						
Week 13						
Week 14						
Week 15						
Week 16						
Week 17						
Week 18						
Week 19						

	Date	Initials	Depth Marker Reading (N/A for dry manure handling)	OK (√ if no problems)	<b>Description of any Deficiencies</b> <b>Observed</b> (put "N/A" if none observed)	Date Deficiency Corrected*
Week 20						
Week 21						
Week 22						
Week 23						
Week 24						
Week 25						
Week 26						
Week 27						
Week 28						
Week 29						
Week 30						
Week 31						

	Date	Initials	Depth Marker Reading (N/A for dry manure handling)	OK (√ if no problems)	<b>Description of any Deficiencies</b> <b>Observed</b> (put "N/A" if none observed)	Date Deficiency Corrected*
Week 32						
Week 33						
Week 34						
Week 35						
Week 36						
Week 37						
Week 38						
Week 39						
Week 40						
Week 41						
Week 42						
Week 43						

	Date	Initials	Depth Marker Reading (N/A for dry manure handling)	OK (√ if no problems)	<b>Description of any Deficiencies</b> <b>Observed</b> (put "N/A" if none observed)	Date Deficiency Corrected*
Week 44						
Week 45						
Week 46						
Week 47						
Week 47						
Week 49						
Week 50						
Week 51						
Week 52						



Ben Grumbles, Secretary Horacio Tablada, Deputy Secretary

# Manure, Litter, and Wastewater Storage Structures Documentation

Facility Name: \_\_\_\_\_\_ NPDES Permit No.: \_\_\_\_\_

Instructions:

For each storage structure, provide the following information in the table below:

- Structure Type: the type of storage structure (e.g. roofed storage shed, storage pond, anaerobic lagoon...)
- Total Design Storage Volume: the total capacity the storage structure was designed to hold (e.g. 100 ft<sup>3</sup> or 1000 gallons)
- Design Treatment Volume: (\*N/A for dry manure storage) the treatment capacity the structure was designed to treat
- Days of Storage Capacity: (\*N/A for dry manure storage) the number of days the structure can accommodate its contents at the rate the operation places waste in it
- Volume for Solids Accumulation: the capacity of the structure available to accumulate solids

Structure Type	Total Design Storage Volume	Design Treatment Volume (N/A for dry manure storage)	Days of Storage Capacity (N/A for dry manure storage)	Volume for Solids Accumulation

1800 Washington Boulevard | Baltimore. MD 21230 | 1-800-633-6101 | 410-537-3000 | TTY Users 1-800-735-2258

www.mde.maryland.gov



Larry Hogan, Governor Boyd K. Rutherford, Lt. Governor

Ben Grumbles, Secretary Horacio Tablada, Deputy Secretary

# Manure, Litter, and Wastewater Transfer Record Keeping Form

 Facility Name:
 \_\_\_\_\_\_\_\_\_\_NPDES Permit No.:

Use this sheet any time that manure or poultry litter is removed from a production or storage area and transferred to other persons (not under the control of your CAFO). Use additional sheets as necessary.

Date of Transfer (indicate whether	Manure Type (e.g. litter,		Quantity Transported
import or export)	wastewater)	Name and Address of Person(s) Received From or Transferred To	(tons/gallons)

www.mde.maryland.gov



Ben Grumbles, Secretary Horacio Tablada, Deputy Secretary

# **Daily Water Line Inspection Log Sheet**

Facility Name: \_\_\_\_

\_ NPDES Permit No.:\_\_\_\_\_

Instructions:

- Initial the form *each day* after the inspection is complete
- If a leak is detected, place a check in the "leak detected" column

January, 20			
Day	Initials	√ if Leak Detected	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	 
27	
28	

29		
30		
31		
Fe	ebruary, 20_	
Day	Initials	√ if Leak Detected
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
N	1arch, 20	
Day	Initials	√ if Leak Detected
1		
2		
3		
4		
5		
6		

		,	
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
April, 20			
Day	Initials	√if Leak Detected	

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	

29		
30		
	May, 20	
Day	Initials	√if Leak Detected
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

25		
26		
27		
28		
29		
30		
31		
J	lune, 20	-
Day	Initials	√ if Leak Detected
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		

20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
	July, 20		
Day	Initials	√ if Leak Detected	
1			
Ť			
2			
2			
2 3 4			
2 3 4 5			
2 3 4 5 6			
2 3 4 5 6 7			
2 3 4 5 6 7 8			
2 3 4 5 6 7 8 9			
2 3 4 5 6 7 8 9 10			
2 3 4 5 6 7 8 9 10 11			
2 3 4 5 6 7 8 9 10 11 11 12			
2 3 4 5 6 7 8 9 10 11 11 12 13			
2 3 4 5 6 7 8 9 10 11 11 12 13 14			

16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
August, 20			
А	ugust, 20	_	
A Day	ugust, 20 Initials	√if Leak Detected	
A Day 1	ugust, 20	√ if Leak Detected	
A Day 1 2	ugust, 20 Initials	— √if Leak Detected	
A Day 1 2 3	ugust, 20 Initials	— √if Leak Detected	
A Day 1 2 3 4	ugust, 20 Initials	— √if Leak Detected	
A Day 1 2 3 4 5	ugust, 20	— √if Leak Detected	
A Day 1 2 3 4 5 6	ugust, 20	 Detected	
A Day 1 2 3 4 5 6 7	ugust, 20	 Detected	
A Day 1 2 3 4 5 6 7 8	ugust, 20	 Vif Leak Detected	
A Day 1 2 3 4 5 6 7 8 9	ugust, 20	 Detected	

11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
September, 20		
Day	Initials	√ if Leak Detected
1		
2		
3		
4		
5		

6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

October, 20			
Day	Initials	√if Leak Detected	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			

27		
28		
29		
30		
31		
Nov	vember, 20_	
Day	Initials	√ if Leak Detected
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		

22		
23		
24		
25		
26		
27		
28		
29		
30		
Dec	cember, 20_	
Day	Initials	√ if Leak Detected
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		

18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	