State of North Carolina
Department of Environment and Natural Resources
Division of Water Resources

Animal Waste Management Systems
Request for Certificate of Coverage
Facility Currently Covered by an Expiring State Non-Discharge General Permit

On September 30, 2014, the North Carolina State Non-Discharge General Permits for Animal Waste Management Systems will expire. As required by these permits, facilities that have been issued Certificates of Coverage to operate under these State Non-Discharge General Permits must apply for renewal at least 180 days prior to their expiration date. Therefore, all applications must be received by the Division of Water Resources by no later than **April 1, 2014**.

Please do not leave any question unanswered. Please verify all information and make any necessary corrections below.

Application must be signed and dated by the Permittee.

RECEIVED/DENR/DWR
MAR 31 2014
Water Quality Regional Operations Section

1. Facility Number: 310308 and Certificate of Coverage Number: AWS310308
2. Facility Name: Jerry Michael Walker Farm
3. Landowner's name (same as on the Waste Management Plan): Jerry Walker
4. Landowner's mailing address: 5776 S NC 50
   City/State: Wallace NC Zip: 28466
   Telephone Number (include area code): (910)285-5729 **E-mail:**
5. **Facility's physical address:** 5776 S NC 50
   City: Wilmington **State**: NC **Zip:** 28406
6. County where facility is located: Duplin
7. Farm Manager's name (If different than the Landowner):
8. Farm Manager's telephone number (include area code): 910-285-6775
9. Integrator's name (if there is not an integrator write "None"): ~~JK Farms Inc~~ Murphy - Brown
10. Operator in Charge (OIC) name: Jerry Walker Telephone Number 910-285-6775 OIC # 19710
11. Lessee's name (if there is not a lessee write "None"): _____
12. Indicate animal operation type and number:

Swine	**Cattle**	**Dry Poultry**
Wean to Finish	Dairy Calf	Non Laying Chickens
Wean to Feeder 2600	Dairy Heifer	Laying Chickens
Farrow to Finish	Milk Cow	Turkeys
Feeder to Finish	Dry Cow	Other
Farrow to Wean	Beef Stocker Calf	Pullets
Farrow to Feeder	Beef Feeder	Turkey Poults
Boar/Stud	Beef Brood Cow	
Gilts	Other	
Other		**Wet Poultry**
Horses - Horses	Sheep - Sheep	Non Laying Pullets
Horses - Other	Sheep - Other	Layers

Mail one (1) copy of the most recent Waste Utilization Plan (WUP) along with the field maps for this facility with this completed and signed application as required by NC General Statures 143-215.10C(d) to the address below. The WUP must be signed by the owner and a certified technical specialist.

As a second option to mailing paper copies of the application package, you can scan and email one signed copy of the application and the WUP to: animalpermits@ncdenr.gov

I attest that this application has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that, if all required parts of this application are not completed and that if all required supporting information and attachments are not included, this application package will be returned to me as incomplete. **Note**: In accordance with NC General Statutes 143-215.6A and 143-215.6B, any person who knowingly makes any false statement, representation, or certification in any application may be subject to civil penalties up to $25,000 per violation. (18 U.S.C. Section 1001 provides a punishment by a fine of not more than $10,000 or imprisonment of not more than 5 years, or both for a similar offense.)

Printed Name of Signing Official (Landowner, or if multiple Landowners all landowners should sign. If Landowner is a corporation, signature should be by a principal executive officer of the corporation):

Name: Jerry Michael Walker Title: Owner

Signature: Jerry Michael Walker Date: 3/13/2014

Name: _____ Title: _____

Signature: _____ Date: _____

Name: _____ Title: _____

Signature: _____ Date: _____

THE COMPLETED APPLICATION SHOULD BE SENT TO THE FOLLOWING ADDRESS:

NCDENR–DWR
Animal Feeding Operations Branch
1636 Mail Service Center
Raleigh, North Carolina 27699-1636

Telephone number: (919) 807-6464
E-mail: animalpermits@ncdenr.gov

NCDENR
North Carolina Department of Environment and Natural Resources
Division of Water Resources
Water Quality Programs
Thomas A. Reeder
Director

Pat McCrory
Governor

John E. Skvarla, III
Secretary

March 3, 2014

Jerry Walker
Jerry Michael Walker Farm
5776 S NC 50
Wallace, NC 28466

Subject: Application for Renewal of Coverage for Expiring State General Permit

Dear Permittee:

Your facility is currently approved for operation under one of the Animal Waste Operation State Non-Discharge General Permits, which expire on September 30, 2014. Copies of the new animal waste operation State Non-Discharge General Permits are available at http://www.ncwaterquality.org/web/wq/aps/afo/apps or by writing or calling:

NCDENR–DWR
Animal Feeding Operations Branch
1636 Mail Service Center
Raleigh, North Carolina 27699-1636

Telephone number: (919) 807-6464

In order to assure your continued coverage under the State Non-Discharge General Permits, you must submit an application for permit coverage to the Division. Enclosed you will find a 'Request for Certificate of Coverage Facility Currently Covered by an Expiring State Non-Discharge General Permit.' The application form must be completed, signed and returned by **April 1, 2014**. Please note that you must **include one (1) copy of your most recent Waste Utilization Plan with the signed application form.**

Failure to request renewal of your coverage under a general permit within the time period specified may result in a civil penalty. Operation of your facility without coverage under a valid general permit would constitute a violation of NCGS 143-215.1 and could result in assessments of civil penalties of up to $25,000 per day.

If you have any questions about the State Non-Discharge General Permits, the enclosed application, or any related matter please feel free to contact the Animal Feeding Operations Branch staff at 919-807-6464.

Sincerely,

S. Jay Zimmerman, P.G., Chief
Water Quality Regional Operations Section

Enclosures
cc (w/o enclosures): Wilmington Regional Office, Water Quality Regional Operations Section
Duplin County Soil and Water Conservation District
WQROS Unit Central Files - AWS310308
J K Farms Inc

1636 Mail Service Center, Raleigh, North Carolina 27699-1636
Location: 512 N. Salisbury St. Raleigh, North Carolina 27604
Phone: 919-807-6464 \ FAX: 919-807-6492
Internet: www.ncwaterquality.org

WASTE UTILIZATION PLAN

Thursday, July 11, 2013 Updated 3-21-14

Producer :	Jerry Michael Walker
Farm Name :	Jerry Michael Walker Farm 31-308 5776 S NC 50 Wallace,NC 28466
Telephone # :	(910) 285-5729
Type of Operation :	Wean to Feeder Swine
Number of Animals :	2600 pigs design capacity
Application Method:	Irrigation

The waste from your animal facility must be land applied at a specified rate to prevent pollution of surface and/or groundwater. The plant nutrients in the animal waste should be used to reduce the amount of commercial fertilizer required for the crops in the fields where waste is to be applied. This waste utilization plan uses nitrogen as the limiting nutrient. Waste should be analyzed before each application cycle. Annual soil tests are strongly encouraged so that all plant nutrients can be balanced for realistic yields of the crop to be grown.

Several factors are important in implementing your waste utilization plan in order to maximize the fertilizer value of the waste and to ensure that it is applied in an environmentally safe manner. Always apply waste based on the needs of the crop to be grown and the nutrient contents of the waste. Do not apply more nitrogen than the crop can utilize. Soil types are important as they have different infiltration rates, leaching potentials, cation exchange capacities, and avaialable water holding capacities. Normally waste shall not be applied to land eroding at greater than 5 tons per acre per year. With special pre-cautions, waste may be applied to land eroding at up to 10 tons per acre per year. Do not apply waste on saturated soils, when it is raining, or when the surface is frozen. Either of these conditions may result in runoff to surface waters which is not allowed under DEM regulations. Wind conditions should also be considered to avoid drift and downwind odor problems. To maximize the value of the nutrients for crop production and to reduce the potential for pollution, the waste should be applied to a growing crop or applied to bare ground not more than 30 days prior to planting. Injecting the waste or disking will conserve nutrients and reduce odor problems. This plan is based on waste application through irrigation for this is the manner in which you have chosen to apply your waste. If you choose to inject the waste in the future, you need to revise this plan. Nutrient levels for injecting waste and irrigating waste are not the same.

The estimated acres needed to apply the animal waste is based on typical nutrient content for this type of facility. Acreage requirements should be based on the waste analysis report from your waste management facility. Attached you will find information on proper sampling techniques, preparation, and transfer of waste samples to the lab for ananlysis. This waste utilization plan, if carried out, meets the requirements for compliance with 15A NCAC 2H.0217 adopted by the Environmental Management Commission.

AMOUNT OF WASTE PRODUCED PER YEAR (gallons, ft3, tons, etc.)

2600 pigs X .4 tons waste/pigs/year = 1040 tons

AMOUNT OF PLANT AVAILABLE NITROGEN (PAN) PRODUCED PER YEAR

2600 pigs X .34 lbs PAN/pigs/year = 884 PAN/year

Applying the above amount of waste is a big job. You should plan time and have appropriate equipment to apply the waste in a timely manner.

The following acreage will be needed for waste application based on the crop to be grown, soil type and suface application.

TABLE 1 : ACRES OWNED BY PRODUCER

TRACT	FIELD	SOIL TYPE &CLASS-DETERMINING PHASE	CROP CODE	YIELD	LBS AW N/ACRE	COMM N/ACRE	ACRES	LBS AW USED	APPLIC. TIME
7814	12	TORHUNTA	BC	4.25	187	0	1.6	299.2	MAR-SEP
7814	~ 12	TORHUNTA	SG	1	50	0	1.6	80	SEP-MAY
7814	17	FORESTON ALL	BC	5.1	234.6	0	2.2	516.12	MAR-SEP
7814	~ 17	FORESTON ALL	SG	1	50	0	2.2	110	SEP-MAY
7814	3	FORESTON ALL	BC	5.1	234.6	0	0.6	140.76	MAR-SEP
7814	~ 3	FORESTON ALL	SG	1	50	0	0.6	30	SEP-MAY
7814	9	FORESTON ALL	FC	3.4	156.4	0	1.4	218.96	SEP-MAY
							TOTALS:	**1395.04**	

~ Indicates that this field is being overseeded (i.e. interplanted) or winter annuals follow summer annuals.

* Indicates a Crop Rotation

NOTE: The applicator is cautioned that P and K may be over applied while meeting the N requirments. Beginning in 1996 the Coastal Zone Management Act will require farmers in some eastern counties of NC to have a nutrient management plan that addresses all nutrients. This plan only addresses Nitrogen.

TABLE 2 : ACRES WITH AGREEMENT OR LONG TERM LEASE

(Agreement with adjacent landowners must be attached.)
(Required only if operator does not own adequate land. See required specifications 2.)

TRACT	FIELD	SOIL TYPE &CLASS-DETERMINING PHASE	CROP CODE	YIELD	LBS AW N/ACRE	COMM N/ACRE	ACRES	LBS AW USED	APPLIC. TIME
7809	1	FORESTON ALL	FH	4	200	0	1.5	300	SEP-AUG
7809	2	FORESTON ALL	FH	4	200	0	1.4	280	SEP-AUG
7809	3	FORESTON ALL	FH	4	200	0	1.5	300	SEP-AUG
7809	4	FORESTON ALL	FH	4	200	0	1.4	280	SEP-AUG
							TOTALS:	1160	

~ Indicates that this field is being overseeded (i.e. interplanted) or winter annuals follow summer annuals.

* Indicates a Crop Rotation

* Acreage figures may exceed total acreage in field due to overseeding.
**Lbs AW N (animal waste nitrogen) equals total required nitrogen less any commercial nitrogen (COMM N) supplied.

The following legend explains the crop codes used in TABLES 1 and 2 above:

CROP CODE	CROP	UNITS	LBS N/UNIT
BC	HYBRID BERMUDAGRASS-CONTROLLED GRAZED	TONS	50
BC	HYBRID BERMUDAGRASS-CONTROLLED GRAZED	AC	50
SG	SMALL GRAIN OVERSEEDED	TONS	50
FC	TALL FESCUE-CONTROLLED GRAZED	TONS	50
FH	TALL FESCUE-HAY		

TOTALS FROM TABLES 1 AND 2

	ACRES	LBS AW N USED
TABLE 1	5.8	1,395
TABLE 2	5.8	1,160
TOTALS:	**11.6**	**2,555**
AMOUNT OF N PRODUCED:		**884**
****** BALANCE***		**-1,671**

***** This number must be less than or equal to 0 in order to fully utilize the animal waste N produced.**

Acres show in each of the preceeding tables are considered to be the usable acres excluding required buffers, filter strips along ditches, odd areas unable to be irrigated and perimeter areas not receiving full application rates due to equipment limitations. Actual total acres in the fields listed may, and most likely will be, more than the acres shown in the tables.

NOTE: The Waste Utilization Plan must contain provisions for periodic land application of sludge at agronomic rates. The sludge will be nurturient rich and will require precautionary measures to prevent over application of nutrients or other elements. Your production facility will produce approximately 197.6 pounds of plant available nitrogen (PAN) per year in the sludge that will need to be removed on a periodic basis. This figure is PAN when broadcasting the sludge. Please be aware that additional acres of land, as well special equipment, may be needed when you remove this sludge.

See the attached map showing the fields to be used for the utilization of waste water.

APPLICATION OF WASTE BY IRRIGATION

The irrigation application rate should not exceed the intake rate of the soil at the time of irrigation such that runoff or ponding occurs. This rate is limited by initial soil moisture content, soil structure, soil texture, water droplet size, and organic solids. The application amount should not exceed the available water holding capacity of the soil at the time of irrigation nor should the plant available nitrogen applied exceed the nitrogen needs of the crop.

Your facility is designed for 180 days of temporary storage and the temporary storage must be removed on the average of once every 5.92 months. In no instance should the volume of waste being stored in your structure be within 1.58 feet of the top of the dike.

If surface irrigation is the method of land application for this plan, it is the responsiblity of the producer and irrigation designer to ensure that an irrigation system is installed to properly irrigate the acres shown in Tables 1 and 2. Failure to apply the recommended rates and amounts of Nitrogen shown in the tables may make this plan invalid.

The following table is provided as a guide for establishing application rates and amounts.

TRACT	FIELD	SOIL TYPE	CROP	APPLICATION RATE (in/hr)	APPLICATION AMT (inches)
7809	1, 2, 3, 4	FORESTON ALL	FH	0.50	*1
7814	~12	TORHUNTA	SG	0.45	*1
7814	12	TORHUNTA	BC	0.45	*1
7814	~17, ~3	FORESTON ALL	SG	0.50	*1
7814	9	FORESTON ALL	FC	0.50	*1
7814	17, 3	FORESTON ALL	BC	0.50	*1

* This is the maximum application amount allowed for the soil assuming the amount of nitrogen allowed for the crop is not over applied. In many situations, the application amount shown cannot be applied because the nitrogen limitation. The maximum application amount shown can be applied under optimum soil conditions.

NARRATIVE OF OPERATION

This plan incorporates the new nitrogen coefficient for wean to feeder farms.

ANIMAL WASTE UTILIZATION AGREEMENT

(Needed only if additional land has to be leased, etc.)

I, Joyce Cavenaugh, hereby give Mike Walker permission to apply animal waste from his Waste Utilization System on 6 acres of my land for the duration of time shown below. The field(s) on which waste can be applied are shown on the attached map.

I understand that this waste contains nitrogen, phosphorous, potassium, and other trace elements and when properly applied should not harm my land or crops. I also understand that the use of waste will reduce my need for commercial fertilizer.

Adjacent Landowner: Joyce Cavenaugh Date: 3-21-14

Waste Producer: Jerry Michael Walker Date: 3-21-14

Technical Representative: CA S Bur Date: 3-21-14

SWCD Representative: _____ Date: _____

Term of Agreement: _____, _____ to _____

(Minimum of Ten Years on Cost Shared Items)

(See Required Specification No. 2.)

NAME OF FARM: Jerry Michael Walker Farm 31-308

OWNER / MANAGER AGREEMENT

I (we) understand and will follow and implement the specifications and the operation and maintenance precedures estalished in the approved animal waste utilization plan for the farm named above. I (we) know that any expansion to the existing design capacity of the waste treatment and/or storage system or construction of new facilities will require a new utilization plan and a new certification to be submitted to DEM before the new animals are stocked.

I (we) understand that I must own or have acces to equipment, primarily irrigation equipment, to land apply the animal waste described in this waste utilization plan. This equipment must be available at the appropriate pumping time such that no discharge occurs from the lagoon in a 25-year 1-day storm event. I also certify that the waste will be applied on the land according to this plan at the appropriate times and at rates that no runoff occurs.

NAME OF FACILITY OWNER: Jerry Michael Walker

SIGNATURE: Jerry Michael Walker **DATE:** 3-21-14

NAME OF MANAGER (if different from owner): _____

please print

SIGNATURE: _____ **DATE:** _____

NAME OF TECHNICAL SPECIALIST: Curtis Barwick

AFFILIATION: Barwick Ag Services

ADDRESS (AGENCY): 103 Country Club Circle

Clinton, NC 28328

(910) 385-1000

SIGNATURE: C G Barwick **DATE:** 3-21-14

WASTE UTILIZATION PLAN

Thursday, July 11, 2013

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AMOUNT OF WASTE PRODUCED PER YEAR (gallons, ft3, tons, etc.)

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7814	9	FORESTON ALL	FC	3.4	156.4	0	1.4	218.96	SEP-MAY
							TOTALS:	1395.04	

~ Indicates that this field is being overseeded (i.e. interplanted) or winter annuals follow summer annuals.
* Indicates a Crop Rotation

NOTE: The applicator is cautioned that P and K may be over applied while meeting the N requirments. Beginning in 1996 the Coastal Zone Management Act will require farmers in some eastern counties of NC to have a nutrient management plan that addresses all nutrients. This plan only addresses Nitrogen.

TABLE 2 : ACRES WITH AGREEMENT OR LONG TERM LEASE

(Agreement with adjacent landowners must be attached.)
(Required only if operator does not own adequate land. See required specifications 2.)

There are no Acres Leased

~ Indicates that this field is being overseeded (i.e. interplanted) or winter annuals follow summer annuals.

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* Acreage figures may exceed total acreage in field due to overseeding.
**Lbs AW N (animal waste nitrogen) equals total required nitrogen less any commercial nitrogen (COMM N) supplied.

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FC	TALL FESCUE-CONTROLLED GRAZED	TONS	50

TOTALS FROM TABLES 1 AND 2

	ACRES	LBS AW N USED
TABLE 1	5.8	1,395
TOTALS:	5.8	1,395
AMOUNT OF N PRODUCED:		884
**** BALANCE*		-511

***** This number must be less than or equal to 0 in order to fully utilize the animal waste N produced.**

Acres show in each of the preceeding tables are considered to be the usable acres excluding required buffers, filter strips along ditches, odd areas unable to be irrigated, and perimeter areas not receiving full application rates due to equipment limitations. Actual total acres in the fields listed may, and most likely will be, more than the acres shown in the tables.

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If surface irrigation is the method of land application for this plan, it is the responsiblity of the producer and irrigation designer to ensure that an irrigation system is installed to properly irrigate the acres shown in Tables 1 and 2. Failure to apply the recommended rates and amounts of Nitrogen shown in the tables may make this plan invalid.

The following table is provided as a guide for establishing application rates and amounts.

TRACT	FIELD	SOIL TYPE	CROP	APPLICATION RATE (in/hr)	APPLICATION AMT (inches)
7814	~12	TORHUNTA	SG	0.45	*1
7814	12	TORHUNTA	BC	0.45	*1
7814	~17, ~3	FORESTON ALL	SG	0.50	*1
7814	9	FORESTON ALL	FC	0.50	*1
7814	17, 3	FORESTON ALL	BC	0.50	*1

* This is the maximum application amount allowed for the soil assuming the amount of nitrogen allowed for the crop is not over applied. In many situations, the application amount shown cannot be applied because the nitrogen limitation. The maximum application amount shown can be applied under optimum soil conditions.

NARRATIVE OF OPERATION

This plan incorporates the new nitrogen coefficient for wean to feeder farms.

PLANS & SPECIFICATIONS

1. Animal waste shall not reach surface waters of the state by runoff, drift, manmade conveyances, direct application, or direct discharge during operation or land application. Any discharge of waste which reaches surface water is prohibited. Illegal discharges are subject to assessment of civil penalties of $10,000 per day by the Division of Water Quality for every day the discharge continues.

2. The Field Office must have documentation in the design folder that the producer either owns or has long term access to adequate land to properly dispose of waste. If the producer does not own adequate land to properly dispose of waste, he shall provide NRCS with a copy of a written agreement with a landowner who is within a reasonable proximity, allowing him/her the use of the land for waste application for the life expectancy of the production facility. It is the responsibility of the owner of the facility to secure an update of the Waste Utilization Plan when there is a change in the operation, increase in the number of animals, method of utilization, or available land.

3. Animal waste shall be applied to meet, but not exceed, the Nitrogen needs for realistic crop yields based on soil type, available moisture, historical data, climate conditions, and level of management, unless there are regulations that restrict the rate of application for other nutrients.

4. Animal waste may be applied to land that has a Resource Management System (RMS) or an Alternative Conservation System (ACS). If an ACS is used the soil loss shall be no greater than 10 tons per acre per year and appropriate filter strips will be used where runoff leaves the field. These filter strips will be in addition to "Buffers" required by DEM. (See FOTG Stantard 393 - Filter Strips and Standard 390 Interim Riparian Forest Buffers).

5. Odors can be reduced by injecting the waste or disking after waste application. Waste should not be applied when there is danger of drift from the irrigation field.

6. When animal waste is to be applied on acres subject to flooding, it will be soil incorporated on conventionally tilled cropland. When applied to conservation tilled crops or grassland, the waste may be broadcast provided the application does not occur during a season prone to flooding. (See "Weather and Climate in North Carolina" in the NRCS Technical Reference - Environment file for guidance.)

*7. Liquid waste shall be applied at rates not to exceed the soil infiltration rate such that runoff does not occur offsite or to surface waters and in a method which does not cause drift from the site during application. No ponding should occur in order to control conditions conducive to odor or flies and to provide uniformity of application.

8. Animal waste shall not be applied to saturated soils, during rainfall events, or when the surface is frozen.

9. Animal waste shall be applied on actively growing crops in such a manner that the crop is not covered with waste to a depth that would inhibit growth.

10. Waste nutrients shall not be applied in fall or winter for spring planted crops on soils with a high potential for leaching. Waste nutrient loading rates on these soils should be held to a minimum and a suitable winter cover crop planted to take up released nutrients. Waste shall not be applied more than 30 days prior to planting of a crop on bare soil.

11. Any new swine facility sited on or after October 1, 1995 shall comply with the following: the outer perimeter of the land area onto which waste is applied from a lagoon that is a component of a swine farm shall be at least 50 feet from any residential property boundary and from any perennial stream or river (other that an irrigation ditch or canal. Animal waste

other than swine waste from facilities sited on or after October 1, 1995), shall not be applied closer than 25 feet to perennial waters. (See Standard 393 - Filter Strips)

12. Animal waste shall not be applied closer than 100 feet to wells.

13. Animal Waste shall not be applied closer than 200 feet of dwellings other than those owned by the landownwer.

14. Waste shall be applied in a manner not to reach other property and public right - of ways.

15. Animal waste shall not be discharged into surface waters, drainageways, or wetlands by discharge or by over-spraying. Animal waste may be applied to prior converted croplands provided they have been approved as a land application site by a "technical specialist". Animal waste should not be applied on grassed waterways that discharge directly into water courses, except when applied at agronomic rates and the application causes no runoff or drift from the site.

*16. Domestic and industrial waste from washdown facilities, showers, toilets, sinks, etc., shall not be discharged into the animal waste management system.

*17. A protective cover of appropriate vegetation will be established on all disturbed areas (lagoon embankments, berms, pipe runs, etc.). If needed, special vegetation shall be provided for these areas and shall be fenced, as necessary, to protect the vegetation. Vegetation such as trees, shrubs, and other woody species, etc. are limited to areas where considered appropriate. Lagoon areas should be kept mowed and accessible. Lagoon berms and structures should be inspected regularly for evidence of erosion, leakage or discharge.

*18. If animal production at the facility is to be suspended or terminated, the owner is responsible for obtaining and implementing a "closure plan" which will eliminate the possibility of an illegal discharge, pollution and erosion.

*19. Waste handling structures, piping, pumps, reels, etc., should be inspected on a regular basis to prevent breakdowns, leaks, and spills. A regular maintenance checklist should be kept on site.

20. Animal waste can be used in a rotation that includes vegetables and other crops for direct human consumption. However, if animal waste is used on crops for direct human consumption, it should only be applied as a preemergence with no other applications of animal waste during the crop season.

*21. Highly visible markers shall be installed to mark the top and bottom elevations of the temporary storage (pumping volume) of all waste treatment lagoons. Pumping shall be managed to maintain the liquid level between the markers. A marker will be required to mark the maximum storage volume fpr waste storage ponds.

22. Waste shall be tested within 60 days of utilization and soil shall be tested at least annually at crop sites where waste products are applied. Nitrogen shall be the rate-determining element. Zinc and copper levels in the soils shall be monitored and alternative crop sites shall be used when these metals approach excessive levels. pH shall be adjusted for optimum crop production amd maintained. Soil and waste analysis records shall be kept for five (5) years. Poultry dry waste application records shall be maintained for three (3) years. Waste application records for all other waste shall be maintained for five (5) years.

23. Dead animals will be disposed of in a manner that meets North Carolina Department of Agriculture regulations.

*** Liquid Systems**

NAME OF FARM: Jerry Michael Walker Farm 31-308

OWNER / MANAGER AGREEMENT

I (we) understand and will follow and implement the specifications and the operation and maintenance precedures estalished in the approved animal waste utilization plan for the farm named above. I (we) know that any expansion to the existing design capacity of the waste treatment and/or storage system or construction of new facilities will require a new utilization plan and a new certification to be submitted to DEM before the new animals are stocked.

I (we) understand that I must own or have acces to equipment, primarily irrigation equipment, to land apply the animal waste described in this waste utilization plan. This equipment must be available at the appropriate pumping time such that no discharge occurs from the lagoon in a 25-year 1-day storm event. I also certify that the waste will be applied on the land according to this plan at the appropriate times and at rates that no runoff occurs.

NAME OF FACILITY OWNER: Jerry Michael Walker

SIGNATURE: Jerry Michael Walker **DATE:** 7-11-13

NAME OF MANAGER (if different from owner): _____

please print

SIGNATURE: _____ **DATE:** _____

NAME OF TECHNICAL SPECIALIST: Curtis Barwick

AFFILIATION: Barwick Ag Services

ADDRESS (AGENCY): 103 Country Club Circle

Clinton, NC 28328

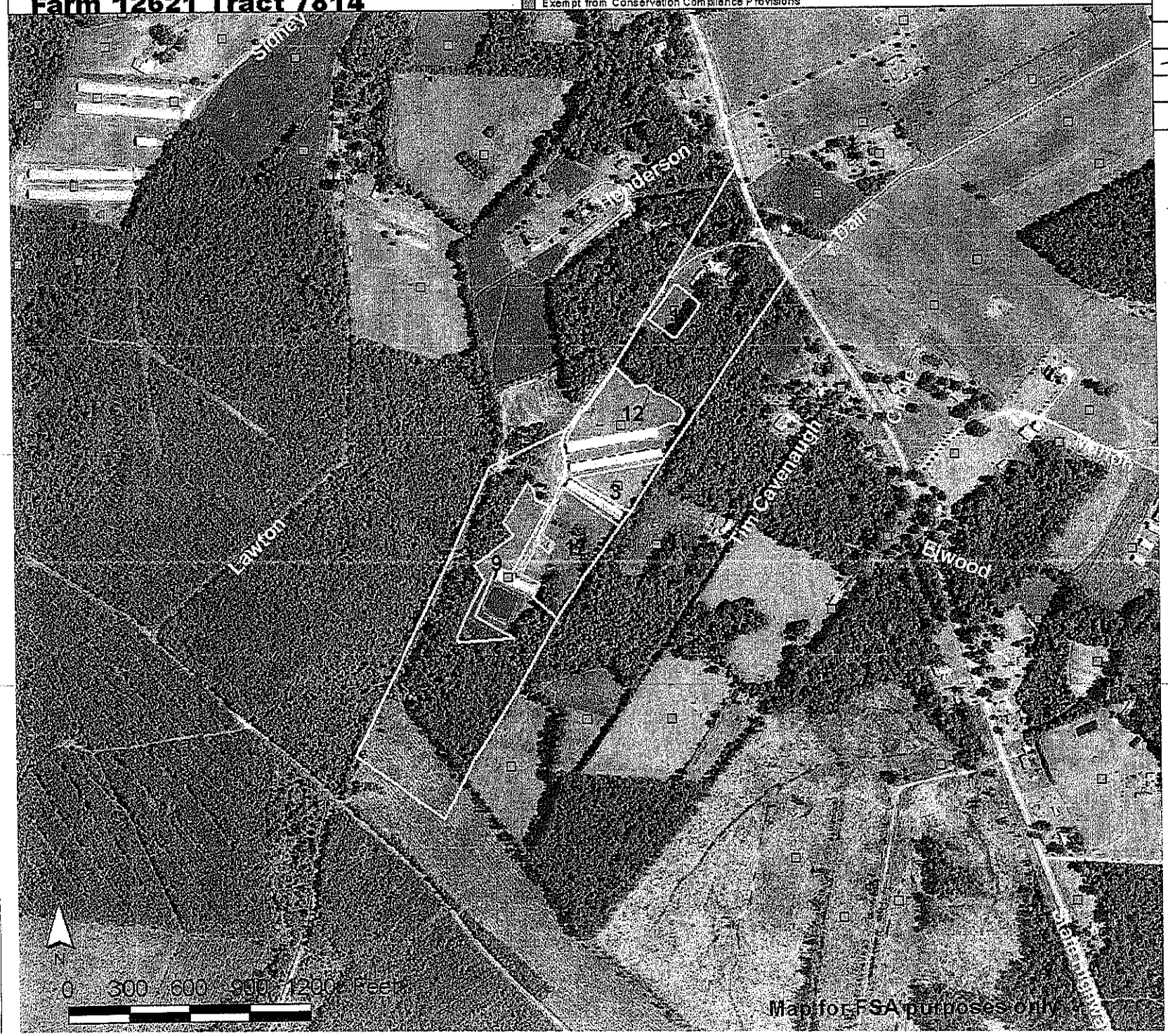
(910) 385-1000

SIGNATURE: C A G Barwick **DATE:** 7-11-13

Duplin County FSA
Farm 12621 Tract 7814

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CP A-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.



Fld	Acres	Crop	HEL	CRP
1	0.80		N	
3	1.10		N	
~~9~~	~~2.03~~		~~N~~	
12	2.44		N	
17	3.33			

field 9
1.1e cropland

Total Cropland Acres
~~9.7~~ 9.2


PRELIMINARY DRAFT
PINHOOK QUADRANGLE
NORTH CAROLINA
7.5 MINUTE SERIES ORTHOPHOTOQUA
FoA
LnA
WoA
GoA
MuA
LuA
PaA
MkA
GtA
CtA
(INDEF)

209'
236'
460'
228'
Scale: 1" = 200'