Received
11/17/2017

State of North Carolina
Department of Environmental Quality
Division of Water Resources
Animal Feeding Operations Permit Application Form
(THIS FORM MAY BE PHOTOCOPIED FOR USE AS AN ORIGINAL)
NPDES General Permit - Existing Animal Waste Operations

1. GENERAL INFORMATION:

1.1 Facility name: Farm 3507 & 3508

1.2 Print Land Owner's name: Smithfield HP

1.3 Mailing address: PO Box 856

City, State: Warsaw, NC Zip: 28398

Telephone number (include area code): (910) 293 - 3434

1.4 Physical address: 649-A Burney Town Rd

City, State: Kinston, NC Zip: 28501

Telephone number (include area code): (_____) _____ - _____

1.5 County where facility is located: Jones

1.6 Owner's email address: _____

1.7 Facility location (directions from nearest major highway, using SR numbers for state roads): From Hargetts Store, take NC Hwy 41 north approx. 2.7 miles and turn left onto SR 1142; go 3.4 miles & turn right on SR1130; go .40 miles and turn left onto SR 1156. Go 1 mile to farm entrance on the left.

1.8 Farm Manager's name (if different from Land Owner): _____

1.9 Lessee's / Integrator's name (if applicable; circle which type is listed): Smithfield HP

1.10 Facility's original start-up date: 1991 Date(s) of facility expansion(s) (if applicable): _____

2. OPERATION INFORMATION:

2.1 Facility number: ~~52-34~~ 52-42

2.2 Operation Description:
Please enter the Design Capacity of the system. The "No. of Animals" should be the maximum number for which the waste management structures were designed.

Type of Swine	No. of Animals	Type of Poultry	No. of Animals	Type of Cattle	No. of Animals
☐ Wean to Feeder	_____	☐ Layer	_____	☐ Beef Brood Cow	_____
☐ Feeder to Finish	_____	☐ Non-Layer	_____	☐ Beef Feeder	_____
☑ Farrow to Wean (# sow)	7854	☐ Turkey	_____	☐ Beef Stocker Calf	_____
☐ Farrow to Feeder (# sow)	_____	☐ Turkey Poults	_____	☐ Dairy Calf	_____
☐ Farrow to Finish (# sow)	_____			☐ Dairy Heifer	_____
☐ Wean to Finish (# sow)	_____			☐ Dry Cow	_____
☐ Gilts	_____			☐ Milk Cow	_____
☐ Boar/Stud	_____				

☐ Other Type of Livestock on the farm: _____ No. of Animals: _____

2.3 Acreage cleared and available for application (excluding all required buffers and areas not covered by the application system): 191.99 Required Acreage (as listed in the CAWMP): 179.68

2.4 Number of lagoons: 2 Total Capacity (cubic feet): 5,233,770 Required Capacity (cubic feet): 4,892,624

Number of Storage Ponds: _____ Total Capacity (cubic feet): _____ Required Capacity (cubic feet): _____

2.5 Are subsurface drains present within 100' of any of the application fields? **YES** or **NO** (circle one)

2.6 Are subsurface drains present in the vicinity or under the waste management system? **YES** or **NO** (circle one)

2.7 Does this facility meet all applicable siting requirements? **YES** or **NO** (circle one)

3. REQUIRED ITEMS CHECKLIST:

Please indicate that you have included the following required items by signing your initials in the space provided next to each item.

Applicants Initials

3.1 One completed and signed original and one copy of the application for NPDES General Permit - Animal Waste Operations;

3.2 Two copies of a general location map indicating the location of the animal waste facilities and field locations where animal waste is land applied and a county road map with the location of the facility indicated;

3.3 Two copies of the entire Certified Animal Waste Management Plan (CAWMP). If the facility does not have a CAWMP, it must be completed prior to submittal of a permit application for animal waste operations.

The CAWMP **must** include the following components. *Some of these components may not have been required at the time the facility was certified but must be added to the CAWMP for NPDES permitting purposes*:

- 3.3.1 The Waste Utilization Plan (WUP) must include the amount of Plant Available Nitrogen (PAN) and Phosphorus produced and utilized by the facility
- 3.3.2 The method by which waste is applied to the disposal fields (e.g. irrigation, injection, etc.)
- 3.3.3 A map of every field used for land application, with setbacks to surface waters or any conduits to surface waters (including field ditches), with the exception of grassed waterways that are designed and maintained according to NRCS standards.
- 3.3.4 The soil series present on every land application field
- 3.3.5 The crops grown on every land application field
- 3.3.6 The Realistic Yield Expectation (RYE) for every crop shown in the WUP
- 3.3.7 The PAN and Phosphorus applied to every land application field
- 3.3.8 The waste application windows for every crop utilized in the WUP
- 3.3.9 The required NRCS Standard specifications
- 3.3.10 A site schematic
- 3.3.11 Emergency Action Plan
- 3.3.12 Insect Control Checklist with chosen best management practices noted
- 3.3.13 Odor Control Checklist with chosen best management practices noted
- 3.3.14 Mortality Control Checklist with the selected method noted
- 3.3.15 Lagoon/storage pond capacity documentation (design, calculations, etc.); please be sure to include any site evaluations, wetland determinations, or hazard classifications that may be applicable to your facility
- 3.3.16 Operation and Maintenance Plan
- 3.3.17 Phosphorus Loss Assessment Tool (PLAT) Results, including the data sheets for each field.

If your CAWMP includes any components not shown on this list, please include the additional components with your submittal. (Composting, waste transfers, etc.)

4. APPLICANT'S CERTIFICATION:

I, Smithfield HP (Land Owner's name listed in question 1.2), attest that this application for Farm 3507 & 3508 (Facility name listed in question 1.1) 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.

Signature _____ Date 11-17-2017

5. MANAGER'S CERTIFICATION: (complete only if different from the Land Owner)

I, _____ (Manager's name listed in question 1.6), attest that this application for _____ (Facility name listed in question 1.1) 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 as incomplete.

Signature _____ Date _____

THE COMPLETED APPLICATION PACKAGE, INCLUDING ALL SUPPORTING INFORMATION AND MATERIALS, SHOULD BE SENT TO THE FOLLOWING ADDRESS:

NORTH CAROLINA DIVISION OF WATER RESOURCES
WATER QUALITY REGIONAL OPERATIONS SECTION
ANIMAL FEEDING OPERATIONS PROGRAM
1636 MAIL SERVICE CENTER
RALEIGH, NORTH CAROLINA 27699-1636
TELEPHONE NUMBER: (919) 807-6464
FAX NUMBER: (919) 807-6496

DIVISION OF WATER RESOURCES REGIONAL OFFICES (9/05)

Asheville Regional WQROS Supervisor
2090 U.S. Highway 70
Swannanoa, NC 28778
(828) 296-4500
Fax (828) 299-7043

Avery	Macon
Buncombe	Madison
Burke	McDowell
Caldwell	Mitchell
Cherokee	Polk
Clay	Rutherford
Graham	Swain
Haywood	Transylvania
Henderson	Yancey
Jackson	

Washington Regional WQROS Supervisor
943 Washington Square Mall
Washington, NC 27889
(252) 946-6481
Fax (252) 975-3716

Beaufort	Jones
Bertie	Lenoir
Camden	Martin
Chowan	Pamlico
Craven	Pasquotank
Currituck	Perquimans
Dare	Pitt
Gates	Tyrell
Greene	Washington
Hertford	Wayne
Hyde	

Raleigh Regional WQROS Supervisor
1628 Mail Service Center
Raleigh, NC 27699-1628
(919) 791-4200
Fax (919) 571-4718

Chatham	Nash
Durham	Northampton
Edgecombe	Orange
Franklin	Person
Granville	Vance
Halifax	Wake
Johnston	Warren
Lee	Wilson

Fayetteville Regional WQROS Supervisor
225 Green Street, Suite 714
Fayetteville, NC 28301-5094
(910) 433-3300
Fax (910) 486-0707

Anson	Moore
Bladen	Richmond
Cumberland	Robeson
Harnett	Sampson
Hoke	Scotland
Montgomery	

Mooresville Regional WQROS Supervisor
610 East Center Avenue
Mooresville, NC 28115
(704) 663-1699
Fax (704) 663-6040

Alexander	Lincoln
Cabarrus	Mecklenburg
Catawba	Rowan
Cleveland	Stanly
Gaston	Union
Iredell	

Wilmington Region WQROS Supervisor
127 Cardinal Drive Extension
Wilmington, NC 28405-3845
(910) 796-7215
Fax (910) 350-2004

Brunswick	New Hanover
Carteret	Onslow
Columbus	Pender
Duplin	

Winston-Salem Regional WQROS Supervisor
450 Hanes Mill Road, Suite 300
Winston-Salem, NC 27105
Phone (336) 776-9800
Fax (336) 776-9797

Alamance	Rockingham
Alleghany	Randolph
Ashe	Stokes
Caswell	Surry
Davidson	Watauga
Davie	Wilkes
Forsyth	Yadkin
Guilford	

Murphy-Brown, LLC

11/17/2017

2822 Hwy 24 West
P.O. Box 856
Warsaw, NC 28398

NUTRIENT UTILIZATION PLAN

Grower(s):	Smithfield HP
Farm Name:	Farm 3507 & 3508 Facility 52-42
County:	Jones

Farm Capacity:	
Farrow to Wean	7854
Farrow to Feeder	
Farrow to Finish	
Wean to Feeder	
Wean to Finish	
Feeder to Finish	

Storage Structure:	Anaerobic Lagoon
Storage Period:	>180 days
Application Method:	Irrigation

The waste from your animal facility must be land applied at a specified rate to prevent pollution of surface water 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 the 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:

1. Always apply waste based on the needs of the crop to be grown and the nutrient content of the waste. Do not apply more nitrogen than the crop can utilize.

2. Soil types are important as they have different infiltration rates, leaching potentials, cation exchange capacities, and available water holding capacities.

3. Normally waste shall be applied to land eroding at less than 5 tons per acre per year. Waste may be applied to land eroding at 5 or more tons per acre annually, but less than 10 tons per acre per year providing that adequate filter strips are established.

4. 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 DWQ regulations.

5. Wind conditions should also be considered to avoid drift and downwind odor problems.

6. 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 not more than 30 days prior to planting a crop or forages breaking dormancy. Injecting the waste or disking will conserve nutrients and reduce odor problems.

This plan is based on the waste application method shown above. If you choose to change methods in the future, you need to revise this plan. Nutrient levels for different application methods are not the same.

The estimated acres needed to apply the animal waste is based on typical nutrient content for this type of facility. In some cases you may want to have plant analysis made, which could allow additional waste to be applied. Provisions shall be made for the area receiving waste to be flexible so as to accommodate changing waste analysis content and crop type. Lime must be applied to maintain pH in the optimum range for specific crop production.

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, ft^3, tons, etc.):

Capacity	Type	Waste Produced per Animal	Total
7854	Farrow to Wean	3203 gal/yr	25,156,362 gal/yr
	Farrow to Feeder	3861 gal/yr	gal/yr
	Farrow to Finish	10478 gal/yr	gal/yr
	Wean to Feeder	191 gal/yr	gal/yr
	Wean to Finish	776 gal/yr	gal/yr
	Feeder to Finish	927 gal/yr	gal/yr
		Total	**25,156,362 gal/yr**

AMOUNT OF PLANT AVAILABLE NITROGEN PRODUCED PER YEAR (lbs):

Capacity	Type	Nitrogen Produced per Animal	Total
7854	Farrow to Wean	3.8436 lbs/yr	30,188 lbs/yr
	Farrow to Feeder	6.9498 lbs/yr	lbs/yr
	Farrow to Finish	18.8604 lbs/yr	lbs/yr
	Wean to Feeder	0.3438 lbs/yr	lbs/yr
	Wean to Finish	1.3968 lbs/yr	lbs/yr
	Feeder to Finish	1.6686 lbs/yr	lbs/yr
		Total	**30,188 lbs/yr**

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.

LAND UTILIZATION SUMMARY

The following table describes the nutrient balance and land utilization rate for this facility Note that the Nitrogen Balance for Crops indicates the ratio of the amount of nitrogen produced on this facility to the amount of nitrogen that the crops under irrigation may uptake and utilize in the normal growing season.

Total Irrigated Acreage:	**174.17**
Total N Required 1st Year:	**51492.583**
Total N Required 2nd Year:	**0**

Average Annual Nitrogen Requirement of Crops:	**51,492.58**
Total Nitrogen Produced by Farm:	**30,187.63**
Nitrogen Balance for Crops:	**(21,304.95)**

The following table describes the specifications of the hydrants and fields that contain the crops designated for utilization of the nitrogen produced on this facility. This chart describes the size, soil characteristics, and uptake rate for each crop in the specified crop rotation schedule for this facility.

Reception Area Specifications — Nitrogen

Tract	Field Hyd	Irrigated Acreage	Soil Type	1st Crop Code	Time to Apply	1st Crop Yield	1st Crop lbs N/Unit	Lbs N/Ac Residual	Lbs N /Ac	Total lbs N Utilized	2nd Crop Code	Time to Apply	2nd Crop Yield	2nd Crop lbs N/Unit	Lbs N/Ac Residual	Lbs N /Ac	Total lbs N Utilized	Total Lbs N/Ac	Total lbs N Utilized
1425	7	3.27	NoB	BC	March-Sept	6.4	40.25		257.6	842.352	K	Sept-April	1	50		50	163.5	307.6	1005.852
1425	8	3.82	NoB	BC	March-Sept	6.4	40.25		257.6	984.032	K	Sept-April	1	50		50	191	307.6	1175.032
1425	11	2.75	GoA	BC	March-Sept	6.5	40.25		261.625	719.4688	K	Sept-April	1	50		50	137.5	311.625	856.9688
1425	13	2.73	AuB	C	March-Sept	5.5	46		253	690.69	K	Sept-April	1	50		50	136.5	303	827.19
1425	14	3.84	AuB	C	March-Sept	5.5	46		253	971.52	K	Sept-April	1	50		50	192	303	1163.52
1425	16	62.57	AuB	BC	March-Sept	5.5	40.25		221.375	13851.43	K	Sept-April	1	50		50	3128.5	271.375	16979.93
1425	20	1.43	NoB	C	March-Sept	6.4	46		294.4	420.992	K	Sept-April	1	50		50	71.5	344.4	492.492
1425	21A	2.22	NoB	BC	March-Sept	6.4	40.25		257.6	571.872	K	Sept-April	1	50		50	111	307.6	682.872
1425	21B	2.05	NoB	BC	March-Sept	6.4	40.25		257.6	528.08	K	Sept-April	1	50		50	102.5	307.6	630.58
1425	22	4.86	NoB	BC	March-Sept	6.4	40.25		257.6	1251.936	K	Sept-April	1	50		50	243	307.6	1494.936
1425	23	3.7	GoA	BC	March-Sept	6.5	40.25		261.625	968.0125	K	Sept-April	1	50		50	185	311.625	1153.013
1425	25A	1.78	NoB	BC	March-Sept	6.4	40.25		257.6	458.528	K	Sept-April	1	50		50	89	307.6	547.528
1425	25B	0.7	NoB	BC	March-Sept	6.4	40.25		257.6	180.32	K	Sept-April	1	50		50	35	307.6	215.32
1425	26A	3.92	NoB	BC	March-Sept	6.4	40.25		257.6	1009.792	K	Sept-April	1	50		50	196	307.6	1205.792
1425	26B	2.61	NoB	BC	March-Sept	6.4	40.25		257.6	672.336	K	Sept-April	1	50		50	130.5	307.6	802.836
1425	27A	4.07	NoB	BC	March-Sept	6.4	40.25		257.6	1048.432	K	Sept-April	1	50		50	203.5	307.6	1251.932
1425	27B	2.7	NoB	BC	March-Sept	6.4	40.25		257.6	695.52	K	Sept-April	1	50		50	135	307.6	830.52
1425	28A	3.64	NoB	BC	March-Sept	6.4	40.25		257.6	937.664	K	Sept-April	1	50		50	182	307.6	1119.664
1425	28B	3.93	NoB	BC	March-Sept	6.4	40.25		257.6	1012.368	K	Sept-April	1	50		50	196.5	307.6	1208.868
1425	29A	2.01	NoB	BC	March-Sept	6.4	40.25		257.6	517.776	K	Sept-April	1	50		50	100.5	307.6	618.276
1425	29B	5	NoB	BC	March-Sept	6.4	40.25		257.6	1288	K	Sept-April	1	50		50	250	307.6	1538
1425	30	2.4	NoB	BC	March-Sept	6.4	40.25		257.6	618.24	K	Sept-April	1	50		50	120	307.6	738.24
1425	31	1.69	NoB	BC	March-Sept	6.4	40.25		257.6	435.344	K	Sept-April	1	50		50	84.5	307.6	519.844
1425	32	2.22	NoB	BC	March-Sept	6.4	40.25		257.6	571.872	K	Sept-April	1	50		50	111	307.6	682.872
1425	36	24.19	GoA	BC	March-Sept	6.5	40.25		261.625	6328.709	K	Sept-April	1	50		50	1209.5	311.625	7538.209
1425	sub7-8	0.87	NoB	BC	March-Sept	6.4	40.25		257.6	224.112	K	Sept-April	1	50		50	43.5	307.6	267.612
1425	sub22-23	3.2	NoB	BC	March-Sept	6.4	40.25		257.6	824.32	K	Sept-April	1	50		50	160	307.6	984.32
1425	sub25-27	1.92	NoB	BC	March-Sept	6.4	40.25		257.6	494.592	K	Sept-April	1	50		50	96	307.6	590.592
1425	sub28-32	4.45	NoB	BC	March-Sept	6.4	40.25		257.6	1146.32	K	Sept-April	1	50		50	222.5	307.6	1368.82
1425	sub36	7.37	GoA	BC	March-Sept	6.5	40.25		261.625	1928.176	K	Sept-April	1	50		50	368.5	311.625	2296.676
1425	37	2.26	GoA	BC	March-Sept	6.5	40.25		261.625	591.2725	K	Sept-April	1	50		50	113	311.625	704.2725
Totals:		*174.17*								*42784.08*							*8708.5*		*51492.58*

Reception Area Specifications — Nitrogen — **OPTIONAL LEASED LAND**

Tract	Field Hyd	Irrigated Acreage	Soil Type	1st Crop Code	Time to Apply	1st Crop Yield	1st Crop lbs N/Unit	Lbs N/Ac Residual	Lbs N /Ac	Total lbs N Utilized	2nd Crop Code	Time to Apply	2nd Crop Yield	2nd Crop lbs N/Unit	Lbs N/Ac Residual	Lbs N /Ac	Total lbs N Utilized	Total Lbs N/Ac	Total lbs N Utilized
1420	1	14.03	NoB	D	Feb15-June	135.0	0.95	15	113.25	1588.898	N	Sept-April	59	2.09		123.31	1730.039	236.56	3318.937
1420	2	29.06	GoA	D	Feb15-June	156.0	0.95	15	133.2	3870.792	N	Sept-April	65	2.09		135.85	3947.801	269.05	7818.593
1420	3	30.85	GoA	D	Feb15-June	156.0	0.95	15	133.2	4109.22	N	Sept-April	65	2.09		135.85	4190.973	269.05	8300.193
1420	4	10.85	GoA	D	Feb15-June	156.0	0.95	15	133.2	1445.22	N	Sept-April	65	2.09		135.85	1473.973	269.05	2919.193
1420	5	9.36	NoB	D	Feb15-June	135.0	0.95	15	113.25	1060.02	N	Sept-April	59	2.09		123.31	1154.182	236.56	2214.202
1420	6	12.99	Ly	D	Feb15-June	150.0	0.9	15	120	1558.8	N	Sept-April	55	1.93		106.15	1378.889	226.15	2937.689
1420	7	18.65	GoA	D	Feb15-June	156.0	0.95	15	133.2	2484.18	N	Sept-April	65	2.09		135.85	2533.603	269.05	5017.783
1420	8	4.71	GoA	D	Feb15-June	156.0	0.95	15	133.2	627.372	N	Sept-April	65	2.09		135.85	639.8535	269.05	1267.226
1420	9	7.15	NoB	D	Feb15-June	135.0	0.95	15	113.25	809.7375	N	Sept-April	59	2.09		123.31	881.6665	236.56	1691.404
1420	10	10.38	Ra	D	Feb15-June	150.0	0.9	15	120	1245.6	N	Sept-April	55	1.93		106.15	1101.837	226.15	2347.437
1420	11	15.88	Ra	D	Feb15-June	150.0	0.9	15	120	1905.6	N	Sept-April	55	1.93		106.15	1685.662	226.15	3591.262
1420	12	17.34	GoA	D	Feb15-June	156.0	0.95	15	133.2	2309.688	N	Sept-April	65	2.09		135.85	2355.639	269.05	4665.327
	any	any	NoB	O	April-Sept15	34.0	3.91		132.94		*							132.94	
	any	any	GoA	O	April-Sept15	38.0	3.91		148.58		*							148.58	
	any	any	Ly	O	April-Sept15	39.0	3.87		150.93		*							150.93	
	any	any	Ra	O	April-Sept15	37.0	3.87		143.19		*							143.19	
											*								
	any	any	NoB	F	Mar15-Aug1	858.0	0.089		76.362		*							76.362	
	any	any	GoA	F	Mar15-Aug1	925.0	0.089		82.325		*							82.325	
	any	any	Ly	F	Mar15-Aug1	850.0	0.073		62.05		*							62.05	
	any	any	Ra	F	Mar15-Aug1	800.0	0.073		58.4		*							58.4	
	any	any	NoB	cover	Sept-April	1.0	30		30		*							30	
	any	any	GoA	cover	Sept-April	1.0	30		30		*							30	
	any	any	Ly	cover	Sept-April	1.0	30		30		*							30	
	any	any	Ra	cover	Sept-April	1.0	30		30		*							30	
** Any application to cover crop must be deducted from the following crop																			
Totals:		*181.25*								*23015.13*							*23074.12*		*46089.24*

This plan does not include commercial fertilizer. The farm should produce adequate plant available nitrogen to satisfy the requirements of the crops listed above.

The applicator is cautioned that P and K may be over applied while meeting the N requirements. In the future, regulations may require farmers in some parts of North Carolina to have a nutrient management plan that addresses all nutrients. This plan only addresses nitrogen.

In interplanted fields (i.e. small grain, etc, interseeded in bermuda), forage must be removed through grazing, hay, and/or silage. Where grazing, plants should be grazed when they reach a height of six to nine inches. Cattle should be removed when plants are grazed to a height of four inches. In fields where small grain, etc, is to be removed for hay or silage, care should be exercised not to let small grain reach maturity, especially late in the season (i.e. April or May). Shading may result if small grain gets too high and this will definately interfere with stand of bermudagrass. This loss of stand will result in reduced yields and less nitrogen being utilized. Rather than cutting small grain for hay or silage just before heading as is the normal situation, you are encouraged to cut the small grain earlier. You may want to consider harvesting hay or silage two to three times during the season, depending on the time small grain is planted in the fall.

The ideal time to interplant small grain, etc, is late September or early October. Drilling is recommended over broadcasting. Bermudagrass should be grazed or cut to a height of about two inches before drilling for best results.

CROP CODE LEGEND

Crop Code	Crop	Lbs N utilized / unit yield
A	Barley	1.6 lbs N / bushel
B	Hybrid Bermudagrass - Grazed	50 lbs N / ton
C	Hybrid Bermudagrass - Hay	50 lbs N / ton
D	Corn - Grain	1.25 lbs N / bushel
E	Corn - Silage	12 lbs N / ton
F	Cotton	0.12 lbs N / lbs lint
G	Fescue - Grazed	50 lbs N / ton
H	Fescue - Hay	50 lbs N / ton
I	Oats	1.3 lbs N / bushel
J	Rye	2.4 lbs N / bushel
K	Small Grain - Grazed	50 lbs N / acre
L	Small Grain - Hay	50 lbs N / acre
M	Grain Sorghum	2.5 lbs N / cwt
N	Wheat	2.4 lbs N / bushel
O	Soybean	4.0 lbs N / bushel
P	Pine Trees	40 lbs N / acre / yr

Acres shown in the preceding table 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.

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

Reception Area Specifications

Optional Phosphorus

Tract	Field	Irrigated Acreage	Soil Type	1st Crop Code	Time to Apply	1st Crop Yield	P Removal Rate	Lbs P /Ac	Total lbs P Utilized	Gallons /ac crop 1	Lbs N/ac utilized crop 1	2nd Crop Code	Time to Apply	2nd Crop Yield	P Removal Rate	Lbs P /Ac	Total lbs P Utilized	Total Lbs P/Ac	Total lbs P Utilized	Total Gallons	Nitrogen Factor	total gallons crop 2	Lbs N/ac utilized crop 2	Total N Utilized
1425	17	2.85	NoB	C	March-Sept	6.4	12.188	78.0032	222.3091	86670.22	104.0042667	K	Sept-April	1	14.6	14.6	41.61	92.6032	263.9191	293243.5	0.9	16222.22222	19.46666667	351.8922
1425	18	2.1	NoB	C	March-Sept	6.4	12.188	78.0032	163.8067	86670.22	104.0042667	K	Sept-April	1	14.6	14.6	30.66	92.6032	194.4667	216074.1		16222.22222	19.46666667	259.289
1425	19	0.8	NoB	C	March-Sept	6.4	12.188	78.0032	62.40256	86670.22	104.0042667	K	Sept-April	1	14.6	14.6	11.68	92.6032	74.08256	82313.96		16222.22222	19.46666667	98.77675
1425	sub11& 16	7.56	AuB	BC	March-Sept	5.5	10.818	59.499	449.8124	66110	79.332	K	Sept-April	1	14.6	14.6	110.376	74.099	560.1884	622431.6		16222.22222	19.46666667	746.9179
Totals:		*13.31*							*898.3308*								*194.326*							*1456.876*

SLUDGE APPLICATION:

The following table describes the annual nitrogen accumulation rate per animal in the lagoon sludge

Farm Specifications		PAN/yr/animal	Farm Total/yr
7854	Farrow to Wean	0.84	6597.36
	Farrow to Feeder	1	
	Farrow to Finish	4.1	
	Wean to Feeder	0.072	
	Feeder to Finish	0.36	

The waste utilization plan must contain provisions for periodic land application of sludge at agronomic rates. The sludge will be nutrient rich and will require precautionary measures to prevent over application of nutrients or other elements. Your production facility will produce approximately 6597.36 pounds of plant available nitrogen per year will accumulate in the lagoon sludge based on the rates of accumulation listed above.

If you remove the sludge every 5 years, you will have approximately 32986.8 pounds of plant available nitrogen to utilize. Assuming you apply this PAN to hybrid bermuda grass hayland at the rate of 300 pounds of nitrogen per acre, you will need 109 acreas of land. If you apply the sludge to corn at a rate of 125 pounds per acre, you will need 263.8944 acres of land. Please note that these are only estimates of the PAN produced and the land required to utilize that PAN. Actual values may only be determined by sampling the sludge for plant available nitrogen content prior to application Actual utilization rates will vary with soil type, crop, and realistic yield expectations for the specific application fields designated for sludge application at time of removal.

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.

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

*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 of the nitrogen limitation. The maximum application amount shown can be applied under optimum soil conditions.

Your facility is designed for >180 days of temporary storage and the temporary storage must be removed on the average of once every 6 months. In no instance should the volume of the waste stored in your structure be within the 25 year 24 hour storm storage or one foot of freeboard except in the event of the 25 year 24 hour storm.

It is the responsibility of the producer and waste applicator to ensure that the spreader equipment is operated properly to apply the correct rates to the acres shown in the tables. Failure to apply the recommended rates and amounts of nitrogen shown in the tables may make this plan invalid.

Call your technical specialist after you receive the waste analysis report for assistance in determining the amount of waste per acre and the proper application prior to applying the waste.

Application Rate Guide

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

Tract	Hydrant	Soil Type	Crop	Application Rate in/hr	Application Amount * inches
1425	7	NoB	BC	0.5	1
1425	8	NoB	BC	0.5	1
1425	11	GoA	BC	0.4	1
1425	13	AuB	C	0.6	1
1425	14	AuB	C	0.6	1
1425	16	AuB	BC	0.6	1
1425	20	NoB	C	0.5	1
1425	21A	NoB	BC	0.5	1
1425	21B	NoB	BC	0.5	1
1425	22	NoB	BC	0.5	1
1425	23	GoA	BC	0.4	1
1425	25A	NoB	BC	0.5	1
1425	25B	NoB	BC	0.5	1
1425	26A	NoB	BC	0.5	1
1425	26B	NoB	BC	0.5	1
1425	27B	NoB	BC	0.5	1
1425	28A	NoB	BC	0.5	1
1425	28B	NoB	BC	0.5	1
1425	29A	NoB	BC	0.5	1
1425	29B	NoB	BC	0.5	1
1425	30	NoB	BC	0.5	1
1425	29A	NoB	BC	0.5	1
1425	29B	NoB	BC	0.5	1
1425	30	NoB	BC	0.5	1
1425	31	NoB	BC	0.5	1
1425	32	NoB	BC	0.5	1
1425	36	GoA	BC	0.4	1
1425	sub7-8	NoB	BC	0.5	1
1425	sub22-23	NoB	BC	0.5	1
1425	sub25-27	NoB	BC	0.5	1
1425	sub28-32	NoB	BC	0.5	1
1425	sub36	GoA	BC	0.4	1
1425	37	GoA	BC	0.4	1

Additional Comments:

This plan had been updated to meet NPDES permit standards. Zones/Hydrants 17.18,19 and sub11-16 are written based on phosphorus and are optional. All leased land is optional.

Crop code "BC" represents Bermuda combination gaze and hay. 1/2 of yeild produced must be harvested for hay.

NUTRIENT UTILIZATION PLAN CERTIFICATION

Name of Farm: **Farm 3507 & 3508** **Facility 52-42**
Owner: **Smithfield HP**
Manager:

Owner/Manager Agreement:

I/we understand and will follow and implement the specifications and the operation and maintenance procedures established in the approved animal waste nutrient management 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 nutrient management plan and a new certification to be submitted to DWQ before the new animals are stocked.

I/we understand that I must own or have access to equipment, primarily irrigation equipment, to land apply the animal waste described in this nutrient management plan. This equipment must be available at the appropriate pumping time such that no discharge occurs from the lagoon in the event of a 25 year 24 hour storm. I also certify that the waste will be applied on the land according to this plan at the appropriate times and at rates which produce no runoff.

This plan will be filed on site at the farm office and at the office of the local Soil and Water Conservation District and will be available for review by NCDWQ upon request.

Name of Facility Owner: **Smithfield HP**

Signature: _____ 11-17-2017
Date

Name of Manager (if different from owner): _____

Signature: _____
Date

Name of Technical Specialist: **Toni W. King**
Affiliation: **Murphy-Brown, LLC.**
Address: **2822 Hwy 24 West, PO Drawer 856**
Warsaw, NC 28398
Telephone: **(910) 293-3434**

Signature: Toni W. King 11-17-2017
Date

NUTRIENT UTILIZATION PLAN

REQUIRED 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.

2 There must be documentation in the design folder that the producer either owns or has an agreement for use of adequate land on which to properly apply the waste. If the producer does not own adequate land to properly dispose of the waste, he/she shall provide evidence of an agreement with a landowner, who is within a reasonable proximity, allowing him/her the use of the land for waste application. It is the responsibility of the owner of the waste production facility to secure an update of the Nutrient Utilization Plan when there is a change in the operation, increase in the number of animals, method of application, recieving crop type, or available land.

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

4 Animal waste shall be applied to land eroding less than 5 tons per acre per year. Waste may be applied to land eroding at more than 5 tons per acre per year but less than 10 tons per acre per year provided grass filter strips are installed where runoff leaves the field (See USDA, NRCS Field Office Technical Guide Standard 393 - Filter Strips).

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 land application field.

6 When animal waste is to be applied on acres subject to flooding, waste will be soil incorporated on conventionally tilled cropland. When waste is 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" 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 odor and flies.

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

REQUIRED SPECIFICATIONS
(continued)

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. The potential for salt damage from animal waste should also be considered.

10 Nutrients from waste 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 the crop or forages breaking dormancy.

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 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.

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 landowner.

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 cropland provided the fields have been approved as a land application site by a "technical specialist". Animal waste shall not be applied on grassed waterways that discharge directly into water courses, and on other grassed waterways, waste shall be applied at agronomic rates in a manner that 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.

NUTRIENT UTILIZATION PLAN

REQUIRED SPECIFICATIONS
(continued)

17 A protective cover of appropriate vegetation will be established on all disturbed areas (lagoon embankments, berms, pipe runs, etc.). Areas 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. 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 pre-plant with no further 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 for 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 nutrient, unless other restrictions require waste to be applied based on other nutrients, resulting in a lower application rate than a nitrogen based rate. Zinc and copper levels in the soil shall be monitored and alternative crop sites shall be used when these metals approach excessive levels. pH shall be adjusted and maintained for optimum crop production. Soil and waste analysis records shall be kept for a minimum of five years. Poultry dry waste application records shall be maintained for a minimum of three years. Waste application records for all other waste shall be maintained for a minimum of five years.

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

NUTRIENT UTILIZATION PLAN AMENDMENT

Grower(s):	Murphy Brown, LLC
Farm Name:	3507 & 3508; AWS520042
County:	Jones

Farm Capacity:	
Farrow to Wean	7854
Farrow to Feeder	
Farrow to Finish	
Wean to Feeder	
Feeder to Finish	
Wean to Finish	
Gilts	
Boars	

Storage Structure:	Anaerobic Lagoon
Storage Period:	>180 days
Application Method:	Irrigation

This amendment allows the producer to plant corn in fields 11, 16 and sub 11 & 16 during the 2017 growing season, to prepare the fields for the reestablishment of bermuda grass in these fields in 2018. A winter crop/cover crop may be planted if desired. The application rates and windows for these crops are listed in the attached table.

This amendment revised 11/17/2017 to include the option to graze the winter crop/cover crop if desired, and to change the acres to account for setbacks for NPDES permitting.

David Nordan
Owner/Manager

11-17-17
Date

M. Ken Wood
Technical Specialist

11/17/2017
Date

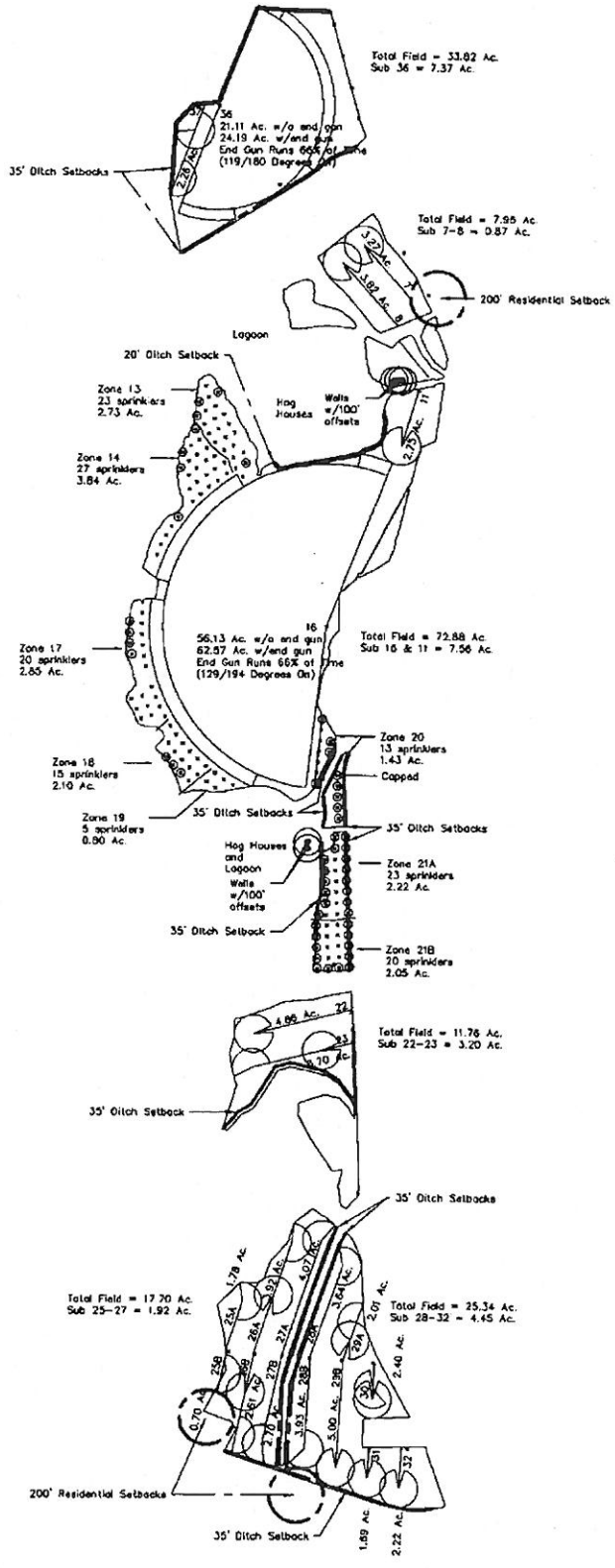
Reception Area Specifications

Tract	Field	Irrigated Acreage	Soil Type	1st Crop Code	Time to Apply	1st Crop Yield	1st Crop lbs N/Unit	Lbs N/Ac Residual	Lbs N /Ac	Total lbs N Utilized	2nd Crop Code	Time to Apply	2nd Crop Yield	2nd Crop lbs N/Unit	Lbs N/Ac Residual	Lbs N /Ac	Total lbs N Utilized	Total Lbs N/Ac	Total lbs N Utilized
1425	11	2.75	Goldsboro	D	Feb15-June	156.00	0.95		148.20	407.55	*					0.00	0.00	148.20	407.55
1425	16	62.57	Autryville	D	Feb15-June	71.00	1.04		73.84	4620 17	*					0.00	0.00	73.84	4620.17
1425	Sub16&11	7.56	Autryville	D	Feb15-June	71.00	1.04		73.84	558.23	*					0.00	0.00	73.84	558.23
Optional Crops																			
1425	Any Above		Any	S	Sept-Apr	1.00	100.00		100.00	0.00									
1425	Any Above		Any	CC	Sept-Apr	1.00	30.00		30.00	0.00									
Totals:		*72.88*								*5585.95*							*0.00*		*5585.95*

Crop Codes:
D - Corn
S - Small Grain Hay
CC - Cover Crop

Notes:
Amount applied to cover crop must be deducted from following crops starting PAN rate.
Small grain crop must be harvested as hay at PAN rate listed above.
If small grain crop is to be harvested by grazing, reduce the above PAN rate by 25%.

Farms 3507 & 3508
AWS520042



Specifications:

Traveler –
3"x1200' hose w/Nelson 150 Big Gun
w/0.97" nozzle @ 60 PSI
280' WD; 143 GPM
200' & 240' Lane Spacings

Center Pivots –
1200' w/100' end gun radius
767.4' w/ 80.2' end gun radius

Solid Sets –
7025 Senninger Sprinklers
w/#18 (9/32") nozzles
@ 50 PSI; 135' WD; 16.3 GPM
80'x80' Spacing
⊛ – Part Circle Sprinklers
• – Full circle Sprinklers

Hyd/Pull/Zone	Acres
7	3.27
8	3.82
11	2.75
13	2.73
14	3.84
16	62.57
17	2.85
18	2.10
19	0.80
20	1.43
21A	2.22
21B	2.05
22	4.86
23	3.70
25A	1.78
25B	0.70
26A	3.92
26B	2.61
27A	4.07
27B	2.70
28A	3.64
28B	3.93
29A	2.01
29B	5.00
30	2.40
31	1.69
32	2.22
36	24.19
37	2.26
Total	162.11

GRAPHIC SCALE

1000 0 500 1000 2000 4000

(IN FEET)

1 inch = 1000ft.

MICAH KEVIN WESTON
CERTIFIED IRRIGATION
002919
DESIGNER
SPRINKLER

Revised 8/22/2017 – Added NPDES setbacks

Field Number	Size (Acres)	Rating (High or Very High)

NCANAT Version: 2.02

PLAT Results For: Jones 3/1/2017 2:04:32 PM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull 36
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.052 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	197
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	FAIR

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	11
LEACHATE P	=	0
SOURCE P	=	11
TOTAL P RATING	=	22 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 3/1/2017 2:06:10 PM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull 37 sub36
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	.079 t/ac/yr
Receiving Slope Distance	C-9 ft
Soil Test 0" - 4"	101
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	3
LEACHATE P	=	0
SOURCE P	=	6
TOTAL P RATING	=	9 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 3/1/2017 3:16:09 PM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull 7&8
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.079 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	115
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	3
LEACHATE P	=	0
SOURCE P	=	6
TOTAL P RATING	=	9 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 3/1/2017 2:11:13 PM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Sub 7&8
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.079 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	109
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	3
LEACHATE P	=	0
SOURCE P	=	6
TOTAL P RATING	=	9 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 3/1/2017 2:17:05 PM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull 11,16
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.052 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	82
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	FAIR

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	5
LEACHATE P	=	0
SOURCE P	=	11
TOTAL P RATING	=	16 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 3/1/2017 2:18:40 PM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Sub 11-16
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.079 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	168
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	FAIR

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	9
LEACHATE P	=	0
SOURCE P	=	11
TOTAL P RATING	=	20 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 3/1/2017 2:21:23 PM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull 13,14
Soil Series:	AuB: Autryville loamy fine sand, 0 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.023 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	172
WV_Factor (DATABASE)	1.4
Soil Test 28" - 32"	43
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	FAIR

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	4
LEACHATE P	=	17
SOURCE P	=	2
TOTAL P RATING	=	23 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 3/1/2017 2:28:29 PM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull 16
Soil Series:	AuB: Autryville loamy fine sand, 0 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.034 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	288
WV_Factor (DATABASE)	1.4
Soil Test 28" - 32"	4
WV_Factor (USER)	1.07
Hydrologic Condition:	FAIR

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	6
LEACHATE P	=	2
SOURCE P	=	2
TOTAL P RATING	=	10 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 3/1/2017 3:05:32 PM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull 16(2)
Soil Series:	AuB: Autryville loamy fine sand, 0 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.034 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	288
WV_Factor (DATABASE)	1.4
Soil Test 28" - 32"	39
WV_Factor (USER)	1.19
Hydrologic Condition:	FAIR

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	6
LEACHATE P	=	18
SOURCE P	=	2
TOTAL P RATING	=	26 (MEDIUM)

NCANAT Version: 2.02

PLAT Results For: Jones 3/1/2017 3:06:49 PM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull 16(3)
Soil Series:	AuB: Autryville loamy fine sand, 0 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.034 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	288
WV_Factor (DATABASE)	1.4
Soil Test 28" - 32"	5
WV_Factor (USER)	1.18
Hydrologic Condition:	FAIR

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	6
LEACHATE P	=	2
SOURCE P	=	2
TOTAL P RATING	=	10 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 8/8/2017 9:09:36 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull 17,18,19 subl1-16
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Hay) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.62 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.052 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	282
WV_Factor (USER)	1.11
Soil Test 28" - 32"	87
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	6
LEACHATE P	=	33
SOURCE P	=	4
TOTAL P RATING	=	43 (HIGH)

NCANAT Version: 2.02

PLAT Results For: Jones 3/1/2017 4:12:50 PM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull 20
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Hay) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.052 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	239
WV_Factor (DATABASE)	1.4
Soil Test 28" - 32"	28
WV_Factor (USER)	1.09
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	4
LEACHATE P	=	14
SOURCE P	=	4
TOTAL P RATING	=	22 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 3/3/2017 9:00:12 AM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull 21a,21b
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Hay) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.052 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	276
WV_Factor (DATABASE)	1.4
Soil Test 28" - 32"	15
WV_Factor (USER)	1.28
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	5
LEACHATE P	=	6
SOURCE P	=	4
TOTAL P RATING	=	15 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 3/3/2017 9:12:49 AM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull 22,23
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	.079 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	197
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	FAIR

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	10
LEACHATE P	=	0
SOURCE P	=	11
TOTAL P RATING	=	21 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 3/3/2017 9:14:11 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull Sub22,23
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.079 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	177
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	FAIR

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	9
LEACHATE P	=	0
SOURCE P	=	11
TOTAL P RATING	=	20 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 3/3/2017 9:15:20 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull Sub22,23 b
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.079 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	113
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	FAIR

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	6
LEACHATE P	=	0
SOURCE P	=	11
TOTAL P RATING	=	17 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 3/3/2017 9:16:32 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull 28-32
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.079 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	197
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	FAIR

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	10
LEACHATE P	=	0
SOURCE P	=	11
TOTAL P RATING	=	21 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 3/3/2017 9:17:21 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Full Sub28-32
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.079 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	177
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	FAIR

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	9
LEACHATE P	=	0
SOURCE P	=	11
TOTAL P RATING	=	20 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 3/3/2017 9:18:20 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull 25-27
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.079 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	113
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	FAIR

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	6
LEACHATE P	=	0
SOURCE P	=	11
TOTAL P RATING	=	17 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 3/3/2017 9:19:09 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	T1425
Field Number:	Pull Sub25-27
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Hybrid Bermudagrass (Pasture) :
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 4.84 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.079 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	142
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	FAIR

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	7
LEACHATE P	=	0
SOURCE P	=	11
TOTAL P RATING	=	18 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 9:56:20 AM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	Leased 1A
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	.665 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	216
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	2
SOLUBLE P	=	15
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	24 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 9:57:13 AM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	Leased 1B
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Corn (Grain) : Conservation Tillage minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.665 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	197
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	2
SOLUBLE P	=	14
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	23 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 9:58:00 AM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	Leased 2A
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.665 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	104
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	7
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	15 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 9:59:20 AM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	Leased 2B
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.428 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	149
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	11
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	19 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:00:08 AM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	Leased 2C
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.428 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	127
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	9
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	17 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:00:48 AM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	Leased 2D
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.428 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	128
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	10
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	18 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:01:30 AM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	Leased 3A
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.428 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	116
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	9
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	17 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:02:07 AM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	Leased 3B
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.428 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	130
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	10
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	18 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:02:52 AM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	Leased 3C
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.428 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	151
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	11
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	19 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:03:25 AM

INPUTS

Calendar Year:	2015
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	Leased 3D
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.428 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	95
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	7
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	15 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:05:02 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 4A
Soil Series:	Ra: Rains fine sandy loam
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	.250 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	61
WV_Factor (DATABASE)	1.2
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	5
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	12 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:06:26 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 4B
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	.428 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	50
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	4
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	11 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:07:10 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 6A
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.428 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	55
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	4
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	11 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:08:32 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED6B
Soil Series:	Ly: Lynchburg fine sandy loam
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	.250 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	42
WV_Factor (DATABASE)	1.25
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	6
LEACHATE P	=	0
SOURCE P	=	13
TOTAL P RATING	=	19 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:09:54 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 5A
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	.665 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	112
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	8
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	16 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:10:30 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 5B
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.665 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	150
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	10
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	18 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:11:10 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 9
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.665 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	87
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	6
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	14 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:12:22 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 8
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	.428 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	78
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	6
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	14 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:13:37 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 10A
Soil Series:	NoB: Norfolk loamy sand, 1 to 4 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	.665 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	81
WV_Factor (DATABASE)	1.4
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	6
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	14 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:14:47 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 10B
Soil Series:	Ra: Rains fine sandy loam
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	.250 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	74
WV_Factor (DATABASE)	1.2
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	6
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	13 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:15:32 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 10C
Soil Series:	Ra: Rains fine sandy loam
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.25 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	51
WV_Factor (DATABASE)	1.2
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	4
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	11 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:16:45 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 12A
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	.428 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	107
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	8
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	16 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:17:56 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 12B
Soil Series:	Ra: Rains fine sandy loam
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	.250 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	78
WV_Factor (DATABASE)	1.2
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	6
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	13 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:19:18 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 11A
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	.428 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	116
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	9
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	17 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:20:37 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 11B
Soil Series:	Ra: Rains fine sandy loam
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	.250 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	65
WV_Factor (DATABASE)	1.2
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	5
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	12 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:21:46 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 7A
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	.428 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	84
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	6
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	14 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:22:30 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 7B
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.428 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	46
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	3
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	10 (LOW)

NCANAT Version: 2.02

PLAT Results For: Jones 9/1/2017 10:23:10 AM

INPUTS

Calendar Year:	
County:	Jones
Producer Identifier:	52-42
Tract Number:	1420
Field Number:	LEASED 7C
Soil Series:	GoA: Goldsboro loamy sand, 0 to 2 percent slopes
Crop:	Corn (Grain) : Conservation Tillage - minimum residue
Fertilizers:	Swine-Lagoon liquid
	Yearly Applied Amount: 2.06 ac in
	Lb P2O5: 53.4 lb
	Application Method: All other surface applications
Soil Loss:	0.428 t/ac/yr
Receiving Slope Distance	0-9 ft
Soil Test 0" - 4"	50
WV_Factor (DATABASE)	1.3
Artificial Drainage System:	NO
Hydrologic Condition:	GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	4
LEACHATE P	=	0
SOURCE P	=	7
TOTAL P RATING	=	11 (LOW)