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Water Protection Program

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM

FORM W - CONCENTRATED ANIMAL FEEDING OPERATION (CAFO) OPERATING PERMIT APPLICATION

FOR OFFICE USE ONLY	
CHECK NUMBER:	
DATE RECEIVED	FEE SUBMITTED

Complete all applicable sections for type of permit being applied for. Instructions for completing the form are located at the end of the form. Sign, date and return the form and all requested documents along with a check for the appropriate permit fee to the Missouri Department of Natural Resources. Make a copy of this completed form and keep it with your Nutrient Management Plan.

PART 1 – PERMIT OWNERSHIP AND CONTACT INFORMATION

1. 1 OPERATION NAME **Smithfield Hog Production, Ruckman Farm**	CURRENT PERMIT NUMBER MO-0118451	COUNTY Gentry
PHYSICAL ADDRESS 2522 State Highway N	LEGAL DESCRIPTION Sec.:10 Twn.: 64N Rng.: 31W	TELEPHONE NUMBER WITH AREA CODE (660) 448-2199
CITY Albany	STATE Missouri	ZIP CODE 64402
1.2 OWNER (PROVIDE LEGAL NAME) Murphy-Brown of Missouri LLC, d/b/a Smithfield Hog Production	EMAIL ADDRESS	
MAILING ADDRESS 17999 US Highway 65		TELEPHONE NUMBER WITH AREA CODE 660-748-4647
CITY Princeton	STATE MO	ZIP CODE 64673
1.3 CONTINUING AUTHORITY (IF DIFFERENT THAN THE OWNER)		
MAILING ADDRESS		TELEPHONE NUMBER WITH AREA CODE
CITY	STATE	ZIP CODE

PART 2 – PERMIT TYPE AND PERMIT ACTION

2.1 PERMIT TYPE

☑ **NPDES Site Specific Permit**
Request review of draft permit prior to public notice. ☑ **Yes**

☐ NPDES General Permit (MOG01)

☐ State No-Discharge General Permit (MOGS1)

2.2 PERMIT ACTION*

☐ New Permit ☑ **Renewal**
☐ Modification ☐ Ownership Transfer

PREVIOUS OWNERS NAME

ADRESS

CITY STATE ZIP CODE

SIGNATURE DATE 7-1-16

*See instructions for additional requirements and documents for the request permit action.

PART 3 – DESIGN CAPACITY FOR MANURE STORAGE AND ANIMALS OF EACH CAFO FEATURE

3.1 STORAGE STRUCTURE TYPES, AMOUNT OF STORAGE, AND AMOUNT OF MANURE GENERATED PER YEAR.

List All Manure Storage Structures at each CAFO Feature		Dry Manure Handling System		Wet Manure Handling System			
CAFO Feature	Storage Structure Type(s)	Design Dry Process Waste (tons/yr.)	Days of Storage	Total Storage Capacity (gal)	Design Wastewater per Year (gal./yr.)	Days of Storage	Design Flow MGD
001	E			7,922,032	8,357,770	365	0.0229
002	E			8,371,902	8,313,240	365	0.0228
003	E			8,638,355	8,357,770	365	0.0229
004	E			8,638,355	8,573,485	365	0.0235
005	E			8,605,780	8,313,240	365	0.0228

3.2 LIST EACH TYPE OF ANIMAL IN CONFINEMENT AND THE NUMBER OF EACH ANIMAL TYPE.

CAFO Feature	Animal Category #1	Animal Numbers	Animal Category #2	Animal Numbers	Animal Category #3	Animal Numbers
001	5	8,000				
002	5	8,000				
003	5	8,000				
004	5	8,000				
005	5	8,000				

PART 4 – OPERATIONAL INFORMATION

4.1 OPERATIONAL INFORMATION (SEE INSTRUCTIONS)
SIC Code(s) **0213** CAFO Class Size **1A**

4.2 Is this an "Export Only" operation? ☑ **No**

Completing PARTS 5 - 11 will meet the requirements of a Nutrient Management Plan (NMP) for an export only operation.

PART 5 – MANURE STORAGE

5.1 Do all manure storage structures have adequate storage, and operated and maintained as no discharge? [√] **YES**

PART 6 – ANIMAL MORTALITY

6.1 PEMANENT METHOD OF DISPOSING OF ROUTINE ANIMAL MORTALITIES.

[√] **Rendering**

6.2 DESCRIBE METHOD OF MORTALITY HANDLING AND STORAGE THROUGH ALL PHASES TO FINAL DISPOSAL. (EXAMPLE: MORTALITIES ARE COMPOSTED WITHIN 24 HOURS OF DEATH AND FINISHED COMPOST PRODUCT IS STORED UNDER ROOF UNTIL LAND APPLIED). ALSO DESCRIBE THE TYPE OF COMPOST STRUCTURE USED, IF APPLICABLE.

Mortalities are collected and removed from buildings on a daily basis. The carcasses are removed from each farm everyday and hauled to the rendering plant. The carcasses are kept from public view. The planned method of catastrophic disposal is by rendering. In the event the nearby rendering plant would be incapable due to breakdown or excess loading another rendering plant would be used.

PART 7 – DIVERSION OF CLEAN WATER

7.1 Is clean storm water diverted from the production area? [√] **Yes**

7.2 IF YES, DESCRIBE CONTROLS AND MEASURES USED TO DIVERT STORM WATER.

THE PRODUCTION AREAS HAVE CONTAINMENT OR EARTHEN DAMS INSTALLED AND MAINITAINED DOWN GRADIENT OF ALL CONFINEMENT BUILDINGS AND SEWER LINES, GRAVITY OUT FALL LINES, RECYCLE PUMP STATIONS AND RECYCLE FORCE MAINS IN ORDER TO COLLECT AND RETAIN WASTEWATER DISCHARGES FROM SPILLS OR PIPELINE BREAKS. LAGOON BERMS ENSURE THAT CLEAN WATER IS DIVERTED FROM THE PRODUCTION AREA.

7.3 IF NO, DESCRIBE HOW CONTAMINATED STORMWATER IS CONTAINED AND INCLUDE THE STORAGE CAPACITY OF THE CONTAINMENT IF NOT PREVIOUSLY PROVIDED.

PART 8 – PREVENT DIRECT CONTACT OF ANIMALS WITH SURFACE WATERS

8.1 Do the animals have access to waters of the state within the production area? [√] **NO**

8.2 LIST MEASURES USED TO PREVENT CONFINED ANIMAL FORM HAVING DIRECT CONTACT WITH WATERS OF THE STATE.

THE GREEN HILLS UNIT IS A CONFINED ANIMAL FEEDING OPERATION AND THE ANIMALS AT THIS FACILITY ARE CONFINED INSIDE THE BARNS.

PART 9 – CHEMICAL HANDLING

9.1 Check the appropriate boxed below to indicate method for handling and disposal of chemicals used by the operation:

- [ ] Chemicals are stored, handled, and disposed of according to manufacturer labels.
- [ ] Chemical storage and handling areas are protected from precipitation and runoff, and any spillage is contained within these areas.
- [ ] Emergency procedures and equipment are in place to contain and clean up chemical spills.
- [ ] Equipment wash areas are designed and constructed to prevent contamination of surface waters.
- [√] **No chemicals are stored or handled in the production area.**

PART 10 – MANURE ANALYSIS TESTING

10.1 LIST EACH TYPE OF MANURE SOURCE. (i. e. MANURE, LITTER, COMPOST, WASTE WATER.)

WASTEWATER

10.2 DESCRIBE PROCEDURES FOR ENSURING EACH MANURE SOURCE IS TESTED ANNUALLY.

Procedure is identified in NMP, G, 2. SOP-DEHS-0035 Sampling-Lagoons.

PART 11 – RECORD KEEPING

11.1 Are records of all inspections, manure transfers, discharges and land application maintained? [√] **Yes**

PART 12 – SIGNATURE

NAME	TITLE
Michael Rainwater	General Manager
SIGNATURE	DATE
[signature]	7-1-16

Part 13 - Engineer Certification

House Bill (HB) 28, which became effective on August 28, 2013 contained provisions that changed construction permitting requirements. Construction permits are required for the construction of an earthen storage structure to hold, convey, contain, store, or treat domestic, agricultural, or industrial process wastewater. Construction of all other point source systems designed to hold, convey, contain, store, or treat domestic, agricultural, or industrial process waste must be designed by a professional engineer registered in Missouri in accordance with design regulations.

Operation Name Address City	Engineer Firm Address City State Zip Code
I, Project Engineer certify that above described systems have been designed in accordance with Missouri CAFO design regulations in 10 CSR 20-8.300 PROJECT ENGINEER SIGNATURE	ENGINEER SEAL

Smithfield Hog Production, Ruckman Farm
Part 3, page 2

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CAFO Feature	Storage Structure Type(s)	Design Dry Process Waste (tons/yr.)	Days of Storage	Total Storage Capacity (gal)	Design Wastewater per Year (gal./yr.)	Days of Storage	Design Flow MGD
006	E			8,605,780	8,313,240	365	0.0228
007	E			8,638,355	8,357,770	365	0.0229
008	E			8,605,780	8,313,240	365	0.0228
009	E			7,607,519	8,080,370	365	0.0221
010	D						
021	D – 5 Cells				6,762,480		

3.2 LIST EACH TYPE OF ANIMAL IN CONFINEMENT AND THE NUMBER OF EACH ANIMAL TYPE.

CAFO Feature	Animal Category #1	Animal Numbers	Animal Category #2	Animal Numbers	Animal Category #3	Animal Numbers
006	5	8,000				
007	5	8,000				
008	5	8,000				
009	5	8,000				

LAND APPLICATION INFORMATION TABLE (REQUIRED FOR NPDES PERMTS ONLY)

Operation Name: **Smithfield Hog Production, Ruckman Farm** Class Size: **1A** Permit #: **MO-0118451** County: **Gentry**

Field Name	Legal Description	Spreadable Acres	P Loss Risk [2]	N or P Based Application	Crop #1		Crop #2		Crop #3		Crop #4		Crop #5[1]	
					Crop	Yield Goal[3]	Crop	Yield Goal[3]	Crop	Yield Goal[3]	Crop	Yield Goal[3]	Crop	Yield Goal[3]
1	Sec. 10 Twn. 64N Rng. 31W	12.34	L	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
2	Sec. 10 Twn. 64N Rng. 31W	5.39	L	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
4	Sec. 10 Twn. 64N Rng. 31W	3.58	M	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
5	Sec. 10 Twn. 64N Rng. 31W	34.54	L	N	Alfalfa	4 t/a	Brome	4 t/a	Wheat	70 bu/a	Oats	70 bu/a	Clover	4 t/a
9	Sec. 10 Twn. 64N Rng. 31W	66.90	VL	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
10	Sec. 10 Twn. 64N Rng. 31W	37.43	VL	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
11	Sec. 3 Twn. 64N Rng. 31W	41.35	VL	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
13	Sec. 3 Twn. 64N Rng. 31W	26.60	VL	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
14	Sec. 3 Twn. 64N Rng. 31W	46.00	VL	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
15	Sec. 3 Twn. 64N Rng. 31W	76.46	L	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
18	Sec. 3 Twn. 64N Rng. 31W	130.92	VL	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
20	Sec. 9 & 10 Twn. 64N Rng. 31W	23.69	VL	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
21	Sec. 9 & 10 Twn. 64N Rng. 31W	14.38	VL	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
22	Sec. 9 Twn. 64N Rng. 31W	11.50	VL	N	Alfalfa	4 t/a	Brome	4 t/a	Wheat	70 bu/a	Oats	70 bu/a	Clover	4 t/a
23	Sec. 9 Twn. 64N Rng. 31W	42.91	VL	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
24	Sec. 4 Twn. 64N Rng. 31W	15.27	L	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
25	Sec. 3 & 4 Twn. 64N Rng. 31W	129.36	M	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
27	Sec. 3 & 4 Twn. 64N Rng. 31W	101.90	M	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
28	Sec. 4 Twn. 64N Rng. 31W	68.79	M	N	Alfalfa	4 t/a	Alfalfa	4 t/a	Alfalfa	4 t/a	Alfalfa	4 t/a	Alfalfa	4 t/a
31	Sec. 33 Twn. 65N Rng. 31W	122.16	VL	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
32	Sec. 10 Twn. 64N Rng. 31W	4.73	M	N	Mixed Grasses	4 t/a	Brome	4 t/a	Fescue	4 t/a	Orchard Grass	4 t/a	Clover	4 t/a
33	Sec. 10 Twn. 64N Rng. 31W	69.38	M	N	Alfalfa	4 t/a	Brome	4 t/a	Wheat	70 bu/a	Oats	70 bu/a	Clover	4 t/a

[1] If more than five planned or alternative crops per field continue on next line.
[2] Soil Test P Rating or P Index Rating may be used.
[3] Express yield in Bu=Bushels or T=Tons per acre.