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JUL 25 2016

Water Protection Program

ALLIED ENGINEERING SERVICES, LLC

Engineering—Surveying—Construction

M06S10088

A-5 Sow Farm

July 18, 2016

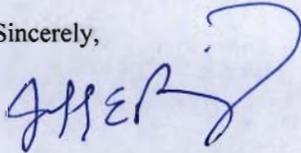
Greg Caldwell
Water Pollution Control Program
P.O. Box 176
Jefferson City, MO 65102-0176

Dear Greg,

Enclosed please find the general operating permit application for Advanced Pork Systems A4 Sow Farm Expansion. in Atchison County.

If you have any questions or need any additional information, please feel free to contact me.

Sincerely,



Jeff E. Browning, P.E.

Enclosures

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JUL 25 2016



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 WATER PROTECTION PROGRAM
**FORM W - CONCENTRATED ANIMAL FEEDING OPERATION
 (CAFO) OPERATING PERMIT APPLICATION**

Water Protection Program

FOR OFFICE USE ONLY

CHECK NUMBER

1336

DATE RECEIVED

7/25/16

FEE SUBMITTED

\$100.00

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 \$150 payable 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/CONTACT INFORMATION

1.1 OPERATION NAME A4 Sow Farm		CURRENT PERMIT NUMBER MO-G010664	COUNTY Atchison
PHYSICAL ADDRESS 21278 Y Avenue		TELEPHONE NUMBER WITH AREA CODE (660)886-9681	
CITY Burlington Junction	STATE MO	ZIP CODE 64428	
1.2 OWNER (PROVIDE LEGAL NAME) Advanced Pork Systems, LLC		E-MAIL ADDRESS robertzeysing@rzeysing.com	
MAILING ADDRESS P.O. Box 158		TELEPHONE NUMBER WITH AREA CODE (660)886-9681	
CITY Marshall	STATE MO	ZIP CODE 65340	
1.3 CONTINUING AUTHORITY (IF DIFFERENT THAN THE OWNER) Same			
MAILING ADDRESS		TELEPHONE NUMBER WITH AREA CODE	
CITY	STATE	ZIP CODE	

PART 2 - PERMIT TYPE, ACTION, AND NUTRIENT MANAGEMENT PLAN (NMP)

<p>2.1 PERMIT TYPE</p> <p><input type="checkbox"/> NPDES Permit NMP is required to be submitted with application. (Must also complete Land Application Information page)</p> <p><input checked="" type="checkbox"/> State No-Discharge Permit NMP is not required to be submitted. The date soil tests were taken that was used in development of the NMP. (Month/Year)</p>	<p>2.2 Permit Action</p> <p><input type="checkbox"/> New Permit <input type="checkbox"/> Renewal</p> <p><input checked="" type="checkbox"/> Modification (including Ownership Transfer)</p> <p>Previous Owner _____ Name _____ Address _____ City, State, Zip Code _____ Previous Owner's Signature Date</p>
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PART 3 - DESIGN CAPACITY FOR MANURE STORAGE AND ANIMALS OF EACH CAFO FEATURE (All information to complete this section is in your current operating or construction permit. Attach additional sheets if necessary)

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

CAFO Feature	List All Manure Storage Structures at each CAFO Feature Storage Structure Type(s)	Dry Manure Handling System		Wet Manure Handling System			
		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	C			7,799,088	5,747,385	495	.016
002	C			405,142	563,925	262	.0015
003	G	66	>365				
004							
005							

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	5760				
002	5	1500				
003						
004						
005						

PART 4 - OPERATIONAL INFORMATION

4.1 OPERATIONAL INFORMATION (SEE INSTRUCTIONS) SIC Code(s) 213	CAFO Class Size IC
4.2 Is this an "Export Only" operation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4.3 Are spreading agreements current?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable

PARTS 5 through 11 meet the NMP requirements for an export only operation.

PART 5- MANURE STORAGE

State regulations require CAFOs ensure adequate storage of manure, litter, or process waste water, including the proper operation and maintenance of each storage facility.

5.1 Does each storage structure have adequate storage, and being properly operated and maintained so as not to discharge? Yes No

PART 6 - ANIMAL MORTALITY

State regulations require proper management of animal mortalities be in place at all CAFOs. There should be no discharge from dead animal collection, holding, or disposal areas at the CAFO's production area(s). In addition, the Missouri Department of Agriculture requires the collection or disposal of dead animals in accordance with the Dead Animal Disposal Law under Chapter 269 RSMo.

6.1 PERMANENT METHOD OF ANIMAL MORTALITY HANDLING OR DISPOSAL; CHOOSE APPLICABLE METHOD(S)

Composting Rendering Send to a Landfill Incineration Other (Describe)

6.2 DESCRIBE METHOD OF MORTALITY HANDLING AND STORAGE THROUGH ALL PHASES TO FINAL DISPOSAL. (e.g., 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 will be removed regularly to a BioVator or static pile compost facility to be constructed on-site and composted within 24 hours of death. Finished compost is stored under roof until land applied.

PART 7 - DIVERSION OF CLEAN WATER

State regulations require CAFOs to divert clean storm water, as appropriate, around the production area.

7.1 Is clean storm water diverted from the production area? Yes No

7.2 If yes, describe controls and measures used to divert storm water.
Buildings prevent stormwater from entering animal production area. Site is graded to divert storm water away from buildings.

7.3 IF NO, INCLUDE DESIGN CALCULATIONS (IF NOT INCLUDED IN THE ORIGINAL DESIGN) FOR DETERMINING THE TOTAL STORAGE CAPACITY NEEDED TO CONTAIN ALL CLEAN STORM WATER RUNOFF THAT HAS NOT BEEN DIVERTED FROM THE PRODUCTION AREA. NOTE: THE DEPARTMENT HIGHLY DISCOURAGES THIS PRACTICE.

PART 8 - PREVENT DIRECT CONTACT OF ANIMALS WITH SURFACE WATERS

State regulations require that CAFOs prevent the direct contact of confined animals with waters of the state.

8.1 Do the animals have access to waters of the state within the production area? Yes No

8.2 LIST MEASURES USED TO PREVENT ANIMALS FROM HAVING DIRECT CONTACT WITH WATERS OF THE STATE WITHIN THE PRODUCTION AREA.

Animals are confined in buildings.

PART 9 - CHEMICAL HANDLING

State regulations require chemicals and other contaminants handled on-site not be disposed of in any manure, litter, process wastewater, storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants

9.1 CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE MEASURES TAKEN TO PREVENT CHEMICALS (INCLUDING PESTICIDES, COMMERCIAL FERTILIZERS, HAZARDOUS AND TOXIC CHEMICALS AND PETROLEUM BY-PRODUCTS) FROM CONTAMINATING MANURE STORAGE STRUCTURES, PROCESS WASTEWATER OR STORM WATER STORAGE AND TREATMENT SYSTEMS:

- Chemicals are stored in proper containers. (Describe)
- Chemicals that are no longer used or expired are properly disposed of. (Describe)
- Chemical storage and handling areas are protected from precipitation and runoff, and any spillage is contained within these areas. (Describe)
- Emergency procedures and equipment are in place to contain and clean up chemical spills. (Describe)
- Equipment wash areas are designed and constructed to prevent contamination of surface waters and wastewater and storm water storage and treatment systems. (Describe)
- Chemicals are handled and used according to the label. (Describe)

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.)
Manure pit wastewater and mortality compost.

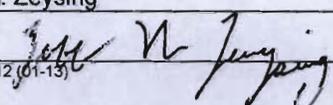
10.2 DESCRIBE THE PROCEDURES TO ENSURE EACH UNIQUE SOURCE IS TESTED ANNUALLY.
Manure/compost is collected in bottles from several locations at each storage location. The samples are then combined into a bulk sample and tested at a laboratory.

PART 11 - RECORD KEEPING

State regulations require specific records to be maintained and kept for five (5) years.

11.1 Are records of all inspections, manure transfers, discharges and land application maintained? Yes No

PART 12 - SIGNATURE

NAME Robert H. Zeysing	TITLE Owner
SIGNATURE 	DATE 7-12-16

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Water Protection Program

PIT BARN CALCULATION SHEET

Advanced Pork Systems - A4 Sow Farm

Gestation Barn w/Farrowing

Manure Values Taken From MWPS 18; Section 1, 2nd Edition

Calculation of Available Volume in 12' Deep Pit Barn:

Inside width of pit = 115'10"

Inside length of pit = 702'4"

Depth = 11'6"

Total Volume = 115'10" X 702'4" X 11'6" = 935,562 cu ft = 6,998,004 gallons

Safety Volume Depth = 1'

Volume at 10'6" deep = 115'10" X 702'4" X 10'6" = 854,209 cu ft = 6,389,482 gallons

Calculation of waste volume produced in 12' Deep Pit Gestation Barn:

head/barn = 4800 (375 lbs each)

Gallons / Hd / Day = 1.03

Manure Volume = 4800 hd x 1.03 gpd/hd = 4944 gpd

Average daily process water added = 4800 gallons

Total waste volume generated per day in barn = 4944 + 4800 = 9,744 gallons

Annual Waste Volume generated = 9,744 gallons X 365 = 3,556,560 gallons

Calculation of waste volume produced in Farrowing Barn

head/barn = 960 (450 lbs each)

Gallons / Hd / Day = 2.5

Manure Volume = 960 hd x 2.5 gpd/hd = 2,400 gpd

Average daily process water added = 960 gallons

Total waste volume generated per day per barn = 2400 + 960 = 3,360 gallons

Annual Waste Volume generated = 3,360 gallons X 365 = 1,226,400 gallons

Avg & Max Annual Pumpdown = 4,782,960 gallons

Number of storage days available = 487.6 days

PIT BARN CALCULATION SHEET

Advanced Pork Systems - A4 Sow Farm

GDU Barn

Manure Values Taken From MWPS 18; Section 1, 2nd Edition

Calculation of Available Volume in 8' Deep Pit Barn:

Inside width of pit = 64'2"

Inside length of pit = 120'7"

Depth = 8'

Total Volume = 64'2" X 120'7" X 8' = 61,901 cu ft = 463,019 gallons

Safety Volume Depth = 1'

Volume at 7' deep = 64'2" X 120'7" X 7' = 54,163 cu ft = 405,142 gallons

Calculation of waste volume produced in 8' Deep Pit GDU Barn:

head/barn = 1500 (170 lbs each-avg)

Gallons / Hd / Day = 1.03

Manure Volume = 1500 hd x 1.03 gpd/hd = 1545 gpd

Annual Waste Volume generated = 1,545 gallons X 365 = 563,925 gallons

Avg & Max Annual Pumpdown = 563,925 gallons

Number of storage days available = 262.2 days

ADVANCED PORK SYSTEMS A 4 SOW FARM

NARRATIVE SUMMARY OF DESIGN

This facility is located in section 29, Township 56N, Range 38W in Atchison County.

The farm is a four building sow farm producing weaned pigs. The farm includes an 89'6" wide x 747'4" long farrowing barn, one 117'6" wide x 820' long breeding/gestation barn, one 89'6" X 140' farrowing barn and one proposed 65'6" X 133'11" gilt development (GDU) barn.

Animal numbers on the farm will be increased by 1,500 head. Total proposed animal numbers on the farm will be 960 sows & litters and 4,800 breeding/gestating sows and 1,500 gilts. Total animal units on this farm will be 2,904, this is a class IC CAFO as defined by the Missouri Department of Natural Resources.

The Breeding/Gestation Barn is a slatted type building where hog manure generated from production falls beneath the floor into an 11'6" deep concrete pit. The farrowing barns have a two-foot deep pit which are periodically drained to the adjacent deep-pit breeding/gestation barn via a permanent sewer pipe under ground. The proposed new GDU barn will have an eight-foot deep pit. The pits store the manure laden wastewater until it can be pumped to nearby farm fields.

The proposed barn will be designed and constructed to meet the current standards of the Missouri Department of Natural Resources. The entire nutrient handling and storage structures have been designed as a no discharge system.

Wastewater nutrients will be land applied according to recommended agronomic rates for the crops to be grown. Nearby farm ground will be utilized for land application of wastewater. Land application will take place via a dragline injection system.

The average annual pumpdown volume has been calculated to be 5,747,385 gallons from the gestation barn and 563,925 gallons from the GDU barn.

Dead animals will be disposed of in accordance with the Missouri Department of Agriculture regulations. Dead animals will be composted on-site via a BioVator composting system or static pile composter.

Clean Water Diversion

This farm is graded to divert storm water away from buildings, animal confinement areas and manure storage areas.

A potential source of unplanned waste from animal confinement facilities is from storm water coming into contact with pollutants. The pollutants that could potentially contaminate the water are the hogs, manure, mortalities, feed, diesel fuel, and oils and lubricants for farm equipment. All of these potential pollutants are kept under roof at this farm. They do not come into contact with clean rain water or add to the contaminated waste on the farm.

A common way for clean water to become contaminated is by contacting ventilated dust on the ground around the barn. To treat rainwater that becomes contaminated by this dust, the barn will be surrounded by grass. The grass acts as a filter and helps prevent erosion around the barns reducing suspended solids in the runoff.

Other operations at this farm that could potentially contribute to exposed pollutants are the loading and unloading of pigs, feed, manure, and mortalities. When these sources are handled messes can occur. Care should be taken to not create a mess around the door of the barns, the manure pumping ports, or at the base of the feed bins. When messes occur during these operations they will be cleaned up immediately.

Prevention of Direct Contact of Confined Animals to Waters of the State

All confined animals are housed under roof in buildings with no outside access. They have no direct access to waters of the state.

Chemical Handling

If checked, the indicated measures will be taken to prevent chemicals and other contaminants from contaminating process waste water or storm water storage and treatment systems.

	This is not a regulatory-agency permitted facility. This section does not apply.
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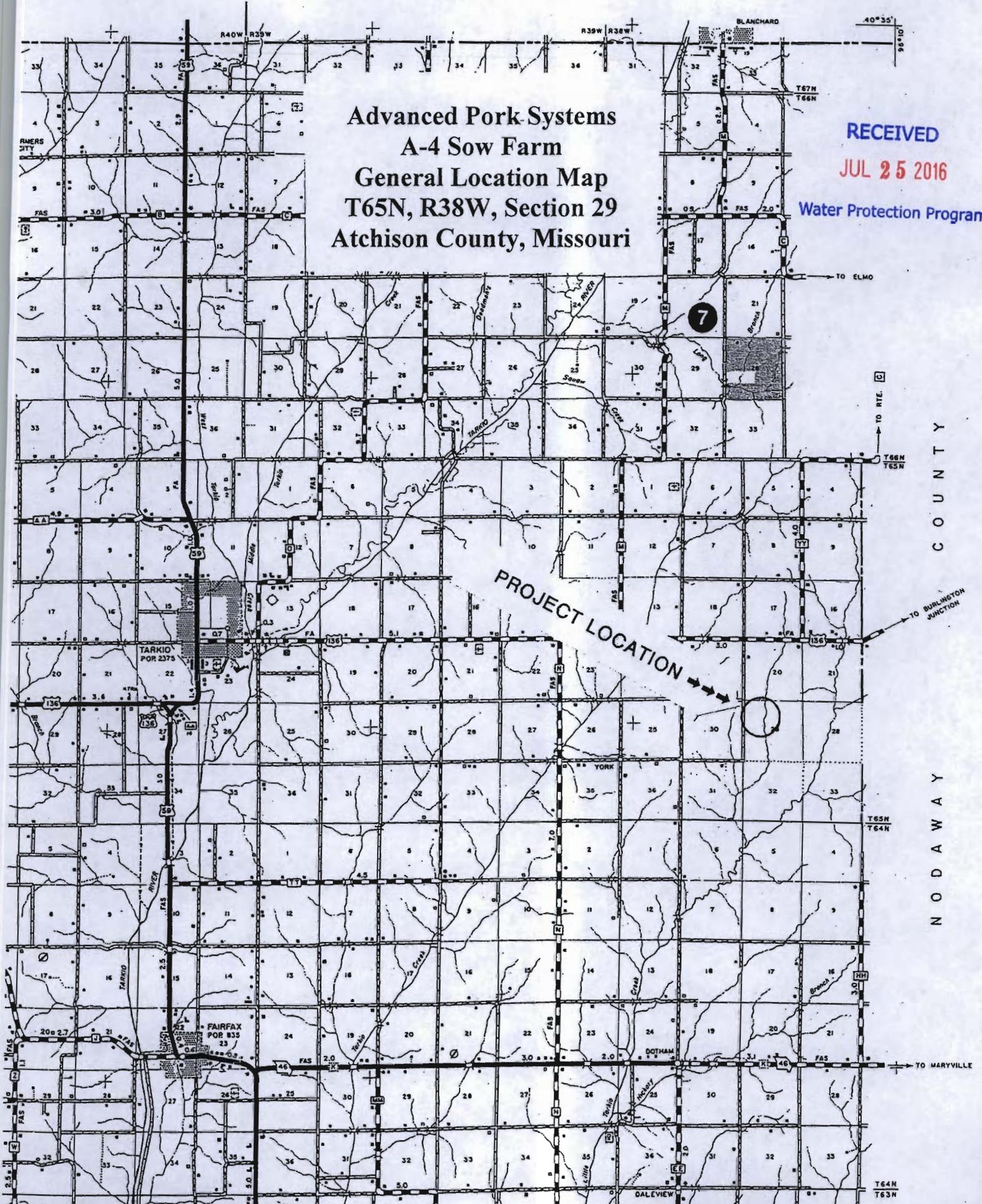
	<i>Measure</i>
X	All hog farm chemicals are stored in proper containers. Expired chemicals and empty containers are properly disposed of in accordance with state and federal regulations.
X	Chemical storage areas are self-contained with no drains or other pathways that will allow spilled chemicals to exit the storage area.
X	Chemical storage areas are covered to prevent chemical contact with rain or snow.
	Emergency procedures and equipment are in place to contain and clean up chemical spills.
	Chemical handling and equipment wash areas are designed and constructed to prevent contamination of surface waters and waste water and storm water storage and treatment systems.

Advanced Pork Systems
A-4 Sow Farm
General Location Map
T65N, R38W, Section 29
Atchison County, Missouri

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Water Protection Program



C O U N T Y
N O D D A W A Y

40°35'
96°10'

T64N
T63N

TO MARYVILLE

TO BURLINGTON
JUNCTION

TO RTE. 67

TO ELMO

7

PROJECT LOCATION

TARKIO
POR 2375

FAIRFAX
POR #35

SMITHS
CITY

BLANCHARD

R40W R39W

R39W R38W

T67N
T66N

T66N
T65N

T65N
T64N

T64N
T63N

FAS

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Greg Caldwell
 P.O. Box 176
 Jefferson City, MO 65102-0176



9590 9402 1860 6104 5321 63

7015 0640 0006 7274 9330

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Justin Rabus

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Loretta Rose Smith
 17355 State Hwy. 0
 TARKIO, MO 64491



9590 9402 1860 6104 5321 49

2. Article Number (Transfer from service label)

7015 0640 0006 7274 9668

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

C. Brian Smith

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

6/30/16

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Atchinson County
 Commission
 P.O. Box 280
 Rockport, MO 64482



9590 9402 1860 6104 5321 87

2. Article Number (Transfer from service label)

7015 0640 0006 7274 9354

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Debbie True

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

Debbie True 6-27-16

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>																
<p>1. Article Addressed to:</p> <p><i>Janet Rhodes + Northern Trust Co. P.O. Box 1354 Chicago IL 60690-1354</i></p>	<p>B. Received by (Printed Name) <i>NICK TERZISCI</i> C. Date of Delivery <i>9/30</i></p>																
<p>9590 9402 1860 6104 5321 56</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>																
<p>2. Article Number (Transfer from service label) 7015 0640 0006 7274 9675</p>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Insured Mail		<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
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<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)																	
<p>PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt</p>																	

CERTIFIED MAIL

21
lied Engineering Services
P.O. Box 29
Bowling Green, MO 63334



7015 0640 0006 7274 9347



1099



64491

U.S. POSTAL SERVICE
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BOWLING GREEN, MO 63334
JUN 24, 2016
AMOUNT
\$6.4
R2305K138t

*LF
TK
J*

*Brian Broermann
33039
TARK
210th Street*

First Notice _____
Second Notice _____

NIXIE 641 DE 1 0006/28/16

RETURN TO SENDER
NOT DELIVERABLE AS ADDRESSED
UNABLE TO FORWARD

BC: 63334982929 *0816-02245-24-43

6449109272 R002



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Water Protection Program

ALLIED ENGINEERING SERVICES, LLC

Engineering—Surveying—Construction

June 24, 2016

Atchison County Commission
P.O. Box 280
Rockport, MO 64482

Dear Commissioners,

Advanced Pork Systems, LLC is planning construction of a new barn on the existing APS4 Sow Farm in Sections 29, Township 65N, Range 38W, in Atchison County Missouri. The enclosed topographic map at a scale of 1" = 1000' defines the location of the proposed barn.

APS Farm 4 will add a 65'6" X 133'11" gilt development (GDU) barn. Animal numbers on the farm will be increased by 1,500 head. Total proposed animal numbers on the farm will be 960 sows & litters and 4,800 breeding/gestating sows and 1,500 gilts. Total animal units on this farm will be 2,904, this is a class IC CAFO as defined by the Missouri Department of Natural Resources.

The proposed new GDU barn will have an eight-foot deep pit which stores the manure laden wastewater until it can be pumped to nearby farm fields.

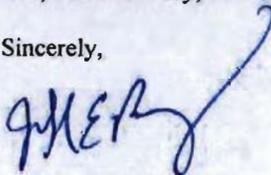
The proposed barn will be designed and constructed to meet the current standards of the Missouri Department of Natural Resources. The entire nutrient handling and storage structures have been designed as a no discharge system. Dead animals will be composted on-site via a BioVator composting system or static pile composter.

Wastewater nutrients will be land applied according to recommended agronomic rates for the crops to be grown. Nearby farm ground will be utilized for land application of wastewater. Land application will take place via a dragline injection system.

A4 Sow Farm is owned by Advanced Pork Systems, LLC, P.O. Box 258, Marshall, MO 65340, (660)886-9681. The farm is managed by Doug Garrison (660)254-1334. Additional information can be obtained from Mr. Garrison.

You are hereby notified that written comments may be made to the Missouri Department of Natural Resources concerning this proposed farm modification for a period of 30 days, their address is: P.O. Box 176, Jefferson City, MO 65102.

Sincerely,



Jeff E. Browning, P.E.

Enclosures

USGS Topographic Map
General Location Map

RECEIVED

JUL 25 2016

Water Protection Program

ALLIED ENGINEERING SERVICES, LLC

Engineering—Surveying—Construction

June 24, 2016

Brian Broermann
33038 210th Street
Tarkio, MO 64491

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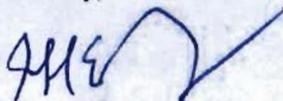
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Wastewater nutrients will be land applied according to recommended agronomic rates for the crops to be grown. Nearby farm ground will be utilized for land application of wastewater. Land application will take place via a dragline injection system.

A4 Sow Farm is owned by Advanced Pork Systems, LLC, P.O. Box 258, Marshall, MO 65340, (660)886-9681. The farm is managed by Doug Garrison (660)254-1334. Additional information can be obtained from Mr. Garrison.

You are hereby notified that written comments may be made to the Missouri Department of Natural Resources concerning this proposed farm modification for a period of 30 days, their address is: P.O. Box 176, Jefferson City, MO 65102.

Sincerely,



Jeff E. Browning, P.E.

Enclosures

USGS Topographic Map
General Location Map

ALLIED ENGINEERING SERVICES, LLC

Engineering—Surveying—Construction

June 24, 2016

Greg Caldwell
Water Pollution Control Program
P.O. Box 176
Jefferson City, MO 65102-0176

Dear Greg,

Advanced Pork Systems, LLC is planning construction of a new barn on the existing APS4 Sow Farm in Sections 29, Township 65N, Range 38W, in Atchison County Missouri. The enclosed topographic map at a scale of 1" = 1000' defines the location of the proposed barn.

APS Farm 4 will add a 65'6" X 133'11" gilt development (GDU) barn. Animal numbers on the farm will be increased by 1,500 head. Total proposed animal numbers on the farm will be 960 sows & litters and 4,800 breeding/gestating sows and 1,500 gilts. Total animal units on this farm will be 2,904, this is a class IC CAFO as defined by the Missouri Department of Natural Resources.

The proposed new GDU barn will have an eight-foot deep pit which stores the manure laden wastewater until it can be pumped to nearby farm fields.

The proposed barn will be designed and constructed to meet the current standards of the Missouri Department of Natural Resources. The entire nutrient handling and storage structures have been designed as a no discharge system. Dead animals will be composted on-site via a BioVator composting system or static pile composter.

Wastewater nutrients will be land applied according to recommended agronomic rates for the crops to be grown. Nearby farm ground will be utilized for land application of wastewater. Land application will take place via a dragline injection system.

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Sincerely,



Jeff E. Browning, P.E.

Enclosures

USGS Topographic Map
General Location Map

RECEIVED

JUL 25 2016

Water Protection Program

ALLIED ENGINEERING SERVICES, LLC

Engineering—Surveying—Construction

June 24, 2016

Janet Rhoden & The Northern Trust Company
P.O. Box 1354
Chicago, IL 60690-1354

Dear Sir/Madam,

Advanced Pork Systems, LLC is planning construction of a new barn on the existing APS4 Sow Farm in Sections 29, Township 65N, Range 38W, in Atchison County Missouri. The enclosed topographic map at a scale of 1" = 1000' defines the location of the proposed barn.

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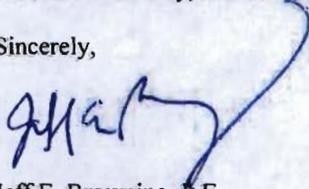
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Sincerely,



Jeff E. Browning, P.E.

Enclosures

USGS Topographic Map
General Location Map

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JUL 25 2016

Water Protection Program

ALLIED ENGINEERING SERVICES, LLC

Engineering—Surveying—Construction

June 24, 2016

Loretta Rose Smith
17355 State Hwy. O
Tarkio, MO 64491

Dear Ms. Smith,

Advanced Pork Systems, LLC is planning construction of a new barn on the existing APS4 Sow Farm in Sections 29, Township 65N, Range 38W, in Atchison County Missouri. The enclosed topographic map at a scale of 1" = 1000' defines the location of the proposed barn.

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Jeff E. Browning, P.E.

Enclosures

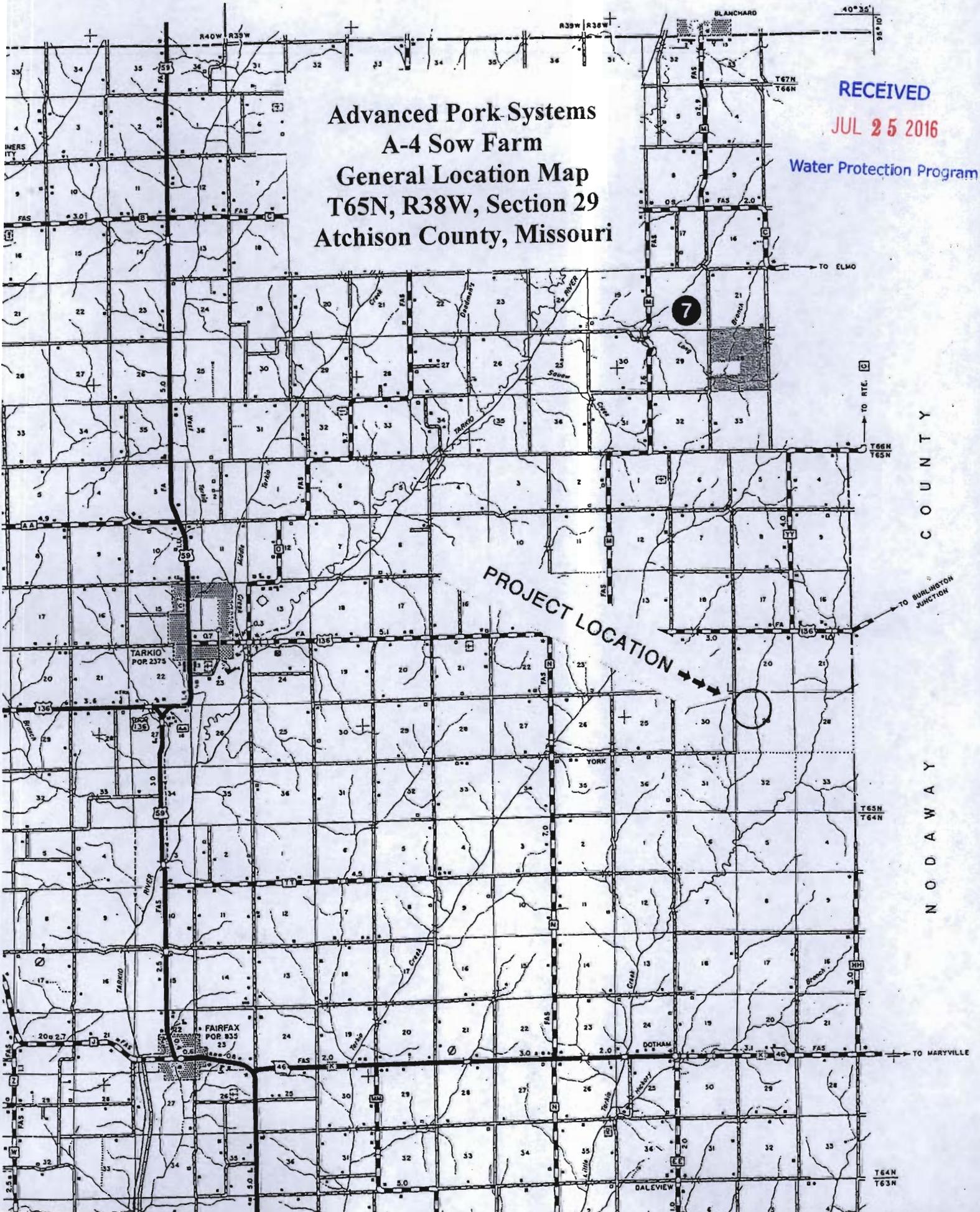
USGS Topographic Map
General Location Map

Advanced Pork Systems
A-4 Sow Farm
General Location Map
T65N, R38W, Section 29
Atchison County, Missouri

RECEIVED

JUL 25 2016

Water Protection Program



224 WEST MAIN
P.O. BOX 29
BOWLING GREEN, MO 63334
PHONE: (573) 324-6868

GREAT RIVER
ENGINEERING, INC.
CONSULTING ENGINEERS
LAND SURVEYORS

Advanced Pork Systems
A-4 Sow Farm

SHEET TITLE:
Topographic Map

FILE NAME
DRAWN BY TRD
CHECKED BY JEB
PROJECT ENGINEER JEB
CONTACT OFFICE BOWLING GREEN

