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

Complete all applicable sections. 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
A4 Sow Farm

CURRENT PERMIT NUMBER
MO- GS10098

COUNTY
Atchison

PHYSICAL ADDRESS
21278 Y Avenue

LEGAL DESCRIPTION
Sec.: 29 Twn.: 65N Rng.: 38

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

EMAIL ADDRESS
robertzeysing@rzeyising.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 AND PERMIT ACTION

2.1 PERMIT TYPE
☐ NPDES Site Specific Permit
☐ NPDES General Permit (MOG01)
☑ State No-Discharge General Permit (MOGS1)

☐ New Permit
☐ Renewal

☐ Modification

2.2 PERMIT ACTION*

 Permit fees may be paid online by credit card or eCheck through a system called JetPay. Use the URL provided to access JetPay and make an online payment.

NPDES Site Specific Permit - https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/591/

NPDES General Permit (MOG01) - https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/599/

State No-Discharge General Permit (MOGS1) - https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/742/

☐ Ownership Transfer

PREVIOUS OWNERS NAME

ADRESS

CITY STATE ZIP CODE

SIGNATURE DATE

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

Permit fees may be paid online by credit card or eCheck through a system called JetPay. Use the URL provided to access JetPay and make an online payment. Modification fee: https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/596/
### 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

<table>
<thead>
<tr>
<th>Permitted Feature</th>
<th>Storage Structure Type(s)</th>
<th>Dry Manure Handling System</th>
<th>Wet Manure Handling System</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Days of Storage</td>
<td>Total Storage Capacity (gal)</td>
</tr>
<tr>
<td>001</td>
<td>C</td>
<td>6,389,482</td>
<td>3,942,730</td>
</tr>
<tr>
<td>002</td>
<td>C</td>
<td>405,142</td>
<td>338,355</td>
</tr>
<tr>
<td>003</td>
<td>C</td>
<td>403,130</td>
<td>225,570</td>
</tr>
<tr>
<td>004</td>
<td>C</td>
<td>2,316,986</td>
<td>1,093,540</td>
</tr>
<tr>
<td>005</td>
<td>G</td>
<td>66</td>
<td>&gt;365</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Permitted Feature</th>
<th>Animal Category #1</th>
<th>Animal Numbers</th>
<th>Animal Category #2</th>
<th>Animal Numbers</th>
<th>Animal Category #3</th>
<th>Animal Numbers</th>
</tr>
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<tbody>
<tr>
<td>001</td>
<td>5</td>
<td>4354</td>
<td>6</td>
<td>610</td>
<td></td>
<td></td>
</tr>
<tr>
<td>002</td>
<td>5</td>
<td>900</td>
<td></td>
<td></td>
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<td></td>
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<td>5</td>
<td>600</td>
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<td></td>
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</tr>
<tr>
<td>004</td>
<td>5</td>
<td>1476</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### PART 4 – OPERATIONAL INFORMATION

#### 4.1 OPERATIONAL INFORMATION (SEE INSTRUCTIONS)

<table>
<thead>
<tr>
<th>SIC Code(s)</th>
<th>CAFO Class Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>0213</td>
<td>IC</td>
</tr>
</tbody>
</table>

4.2 Is this an export-only operation? □ Yes  ✔ No

### PART 5 – MANURE STORAGE

5.1 Do all manure storage structures have adequate storage, and operated and maintained as no discharge? ✔ Yes □ No

### PART 6 – ANIMAL MORTALITY

6.1 PERMANENT METHOD OF DISPOSING OF ROUTINE ANIMAL MORTALITIES.

- ✔ Composting
- ✔ Rendering
- ☐ Send to a Landfill
- ☐ Incineration
- ☐ Other (Describe)

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 removed regularly to a static pile composter with a roof and concrete floor. Finish compost is stored under roof until land applied.

### PART 7 – DIVERSION OF CLEAN WATER

7.1 Is clean stormwater diverted from the production area? ✔ Yes □ No

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

Buildings prevent storm water from entering animal production areas. Site is graded to divert storm water away from buildings.

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? □ Yes ✔ No

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

Animals are confined in buildings.

### PART 9 – CHEMICAL HANDLING

9.1 Are chemicals and other contaminants handled, managed, stored, and disposed of in accordance with 10 CSR 20-6.300(5)(E)? ✔ Yes □ No

### PART 10 – MANURE ANALYSIS TESTING

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

Manure pit wastewater and mortality compost.

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

Manure/compost is collected in bottles from several locations at each storage structure. The samples are combined into a bulk sample to test.

### PART 11 – RECORD KEEPING

11.1 Are records of all inspections, manure transfers, discharges and land application maintained? ✔ Yes □ No
**PART 12 – CERTIFICATION**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

<table>
<thead>
<tr>
<th>NAME</th>
<th>Robert H. Zeysing</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIGNATURE</td>
<td></td>
</tr>
<tr>
<td>DATE</td>
<td>1/5/2021</td>
</tr>
</tbody>
</table>

**PART 13 - ENGINEER CERTIFICATION**

As of Aug. 28, 2013, construction permits are only 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.

<table>
<thead>
<tr>
<th>Operation Name</th>
<th>A4 Sow Farm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>P.O. Box 158</td>
</tr>
<tr>
<td>City</td>
<td>Marshall, MO 65340</td>
</tr>
<tr>
<td>Engineer Firm</td>
<td>Allied Engineering Services, LLC</td>
</tr>
<tr>
<td>Address</td>
<td>P.O. Box 22</td>
</tr>
<tr>
<td>City State Zip</td>
<td>City State Zip Code Silex, MO 63377</td>
</tr>
</tbody>
</table>

I, Project Engineer, certify that above described systems have been designed in accordance with Missouri CAFO design regulations in 10 CSR 20-8.300

<table>
<thead>
<tr>
<th>PROJECT ENGINEER SIGNATURE</th>
<th></th>
</tr>
</thead>
</table>

**ENGINEER SEAL**

- JEFF ERIC BROWNING
- NUMBER E-28664
January 8, 2021

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

Dear Heather,

Enclosed please find the general operating permit application to add a new Breeding/Gestation barn at Advanced Pork Systems A4 Sow Farm in Atchison County. Note that the proposed barn addition is for the purpose of adding additional space per sow and no additional animals will be added to the farm. I have included a USB flash drive with the permit documents.

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

Sincerely,

[Signature]

Jeff E. Browning, PE

Enclosures
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 749'6" long farrowing barn, one 117'6" wide x 820' long breeding/gestation barn, one 89'6" X 184'10" farrowing/nursery barn and one 65'6" X 261'1" gilt development (GDU) barn. The new construction will add a 177'10" X 272' breeding/gestation barn to the south and east side of existing barns.

Animal numbers on the farm will not change and are 1,130 sows & litters, 4,700 breeding/gestating sows, 1,500 gilts and 640 nursery pigs. Total animal units on this farm will be 2,996, 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 and nursery addition have a two-foot deep pit which are periodically drained to the adjacent existing deep-pit breeding/gestation barn via a permanent sewer pipe under ground. The GDU barn and proposed new breeding/gestation barn will both 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 for the farm has been calculated to be 5,036,270 gallons from the gestation barns and 563,925 gallons from the GDU barn.

Dead Animals
Dead animals will be disposed of in accordance with the Missouri Department of Agriculture regulations. Dead animals from this operation will be composted on-site in a static pile composting with a roof and concrete floor.

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

All chemicals are handled, managed, stored and disposed of in accordance with 10CSR 20-6.300(5)(E).

Soils / Design

Prior to constructing the existing barns, test pits were dug to determine soil suitability and if any groundwater was present. Soils were found suitable for construction and no groundwater was encountered to depths >2’ below the barn pit floors.

The proposed barn pit is 8’ deep and will have a finished pit floor elevation of 1,080.21’. The pit floor of the existing Gestation barn is >2’ lower than the proposed barn. No ground water was encountered during the construction of any of the existing barns. A tile will be constructed around the proposed storage pit and there are tiles around all existing deep-pit barns that drain any transient water away from the storage pits.

The barn pit floors will set at an elevation > than 2’ above groundwater per (10 CSR 20-8.300(6)(A)).

The proposed barn foundations and manure pits for this farm will be designed for the soils found in the test pits performed across the site and during previous construction per (10 CSR 20-8.300(6)(A)).

The manure storage pit will be designed with a perimeter tile that will be drained to “daylight” and backfilled with granular material per (10 CSR 20-8.300(6)(D)).

These barns and manure storage structures will be designed according to MWPS 36, 2nd Edition “Rectangular Concrete Manure Storages”, per (10 CSR 20-8.300(6)(F)).

All manure pits will be designed to be watertight per (10 CSR 20-8.300(6)(G)).
PIT BARN CALCULATION SHEET
Advanced Pork Systems - A4 Sow Farm
Gestation Barn w/Farrowing & Nursery
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 = 3224 (375 lbs each)
Gallons / Hd / Day = 1.03
Manure Volume = 3224 hd x 1.03 gpd/hd = 3321 gpd
Average daily process water added = 3224 gallons
Total waste volume generated per day in barn = 3321 + 3224 = 6,545 gallons
Annual Waste Volume generated = 6,545 gallons X 365 = 2,388,925 gallons

Calculation of waste volume produced in Big Farrowing Barns

# head in both barns = 1,130 (450 lbs each)
Gallons / Hd / Day = 2.5
Manure Volume = 1130 hd x 2.5 gpd/hd = 2,825 gpd
Average daily process water added = 1130 gallons
Total waste volume generated per day per barn = 2825 + 1130 = 3,955 gallons
Annual Waste Volume generated = 3,955 gallons X 365 = 1,443,575 gallons

Calculation of waste volume produced in Nursery Addition:

# head in barn = 640 (30 lbs each)
Gallons / Hd / Day = .33
Manure Volume = 640 hd x .33 gpd/hd = 212 gpd
Average daily process water added = 90 gallons
Total waste volume generated per day in barn = 212 + 90 = 302 gallons
Annual Waste Volume generated = 302 gallons X 365 = 110,230 gallons

Avg & Max Annual Pumpdown = 3,942,730 gallons
Number of storage days available = 591.5 days
PIT BARN CALCULATION SHEET
Advanced Pork Systems - A4 Sow Farm
GDU Barn (Pit 1)
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 = 900 (170 lbs each-avg)
Gallons / Hd / Day = 1.03
Manure Volume = 900 hd x 1.03 gpd/hd = 927 gpd

Annual Waste Volume generated = 927 gallons X 365 = 338,355 gallons

Avg & Max Annual Pumpdown = 338,355 gallons
Number of storage days available = 437.0 days
PIT BARN CALCULATION SHEET
Advanced Pork Systems - A4 Sow Farm
GDU Barn (Pit 2)
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'
Depth = 8'
Total Volume = 64'2" X 120' X 8' = 61,600 cu ft = 460,768 gallons
Safety Volume Depth = 1'
Volume at 7' deep = 64'2" X 120' X 7' = 53,894 cu ft = 403,130 gallons

Calculation of waste volume produced in 8' Deep Pit GDU Barn:
# head/barn = 600 (170 lbs each-avg)
Gallons / Hd / Day = 1.03
Manure Volume = 600 hd x 1.03 gpd/hd = 618 gpd

Annual Waste Volume generated = 618 gallons X 365 = 225,570 gallons

Avg & Max Annual Pumpdown = 225,570 gallons
Number of storage days available = 652.3 days
PIT BARN CALCULATION SHEET
Advanced Pork Systems - A5 Sow Farm
Breeding/Gestation Barn (2021 Addition)
Manure Values Taken From MWPS 18; Section 1, 2nd Edition

Calculation of Available Volume in 12' Deep Pit Barn:

- Inside width of pit = 176'6"
- Inside length of pit (affective) = 270'
- Depth = 8'
- Safety Volume Depth = 1' + Air flow .5'
- Volume at 6"6" deep = 176'6" X 270' X 6'6" = 309,758 cu ft = 2,316,986 gallons

Calculation of waste volume produced in 8' Deep Pit Breeding/Gestation Barn:

- # head/barn = 1,476 (375 lbs each)
- Gallons / Hd / Day = 1.03
- Manure Volume = 1476 hd x 1.03 gpd/hd = 1,520 gpd

- Average daily process water added = 1,476 gallons

- Total waste volume generated per day in barn = 1520 + 1476 = 2,996 gallors
- Annual Waste Volume generated = 2,996 gallons X 365 = 1,093,540 gallons

Avg & Max Annual Pumpdown = 1,093,540 gallons
Number of storage days available = 773.4 days
ALLIED ENGINEERING SERVICES, LLC

Engineering—Surveying

December 26, 2020

Missouri Department of Natural Resources
Water Pollution Control Program
Attn: Heather Peters
P.O. Box 176
Jefferson City, MO 65102-0176

Dear Ms. Peters:

Advanced Pork Systems LLC is planning a barn addition to the A4 Sow Farm located in Sections 29, Township 65N, Range 38W, in Atchison County Missouri. Advanced Pork Systems LLC owns 28.6 acres at this location that will be utilized for this farming operation. The enclosed topographic map at a scale of 1" = 1000' defines the general layout of the facility and location of the proposed new barn. Despite the addition of a new barn, the farm is not adding any new animals. The purpose of the addition is to create more space for each sow in gestation.

The new construction will add a 177'10" x 272' gestation barn south of the existing gestation barn. Total proposed animal numbers on the farm will not change and are 1,130 sows & litters, 4,700 breeding/gestating sows, 1,500 gilts and 640 nursery pigs. Total animal units on this farm is 2,996. 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 and nursery barns have a two-foot deep pit which are periodically drained to the adjacent deep-pit breeding/gestation barn via a permanent sewer pipe underground. The gilt development (GDU) barn has an eight-foot deep pit and the proposed new gestation barn will also have an eight-foot deep pit. The pits store the manure laden wastewater until it can be pumped to nearby farm fields for nutrient utilization.

The proposed gestation 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 in a static pile composter with a roof and concrete floor and finished compost material is land applied for nutrient utilization.

The registered agent for Advanced Pork Systems LLC is Robert H. Zeysing, 1700 West College Street, P.O. Box 158, Marshall, MO 65340, (660) 886-9681. Additional information can be obtained from Doug Garrison (660) 254-1334 or Mr. Zeysing at the above address or phone number.

The Missouri Department of Natural Resources will accept written comments from the public concerning this proposed farm for a period of 30 days. The DNR's address is: Missouri Department of Natural Resources, Attn: Water Protection Program - CAFO, P.O. Box 176, Jefferson City, MO 65102.

Sincerely,

Jeff E. Browning, P.E.

Enclosures: USGS Topographic Map and General Location Map
December 26, 2020

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

Dear Commissioners:

Advanced Pork Systems LLC is planning a barn addition to the A4 Sow Farm located in Sections 29, Township 65N, Range 38W, in Atchison County Missouri. Advanced Pork Systems LLC owns 28.6 acres at this location that will be utilized for this farming operation. The enclosed topographic map at a scale of 1" = 1000' defines the general layout of the facility and location of the proposed new barn. Despite the addition of a new barn, the farm is not adding any new animals. The purpose of the addition is to create more space for each sow in gestation.

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The registered agent for Advanced Pork Systems LLC is Robert H. Zeysing, 1700 West College Street, P.O. Box 158, Marshall, MO 65340, (660) 886-9681. Additional information can be obtained from Doug Garrison (660) 254-1334 or Mr. Zeysing at the above address or phone number.

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Sincerely,

Jeff E. Browning, P.E.

Enclosures: USGS Topographic Map and General Location Map
ALLIED ENGINEERING SERVICES, LLC

Engineering—Surveying

December 26, 2020

Brian Broermann
210 East Walnut Street
Red Oak, IA 51566

Dear Mr. Broermann:

Advanced Pork Systems LLC is planning a barn addition to the A4 Sow Farm located in Sections 29, Township 65N, Range 38W, in Atchison County Missouri. Advanced Pork Systems LLC owns 28.6 acres at this location that will be utilized for this farming operation. The enclosed topographic map at a scale of 1" = 1000' defines the general layout of the facility and location of the proposed new barn. Despite the addition of a new barn, the farm is not adding any new animals. The purpose of the addition is to create more space for each sow in gestation.

The new construction will add a 17’10" x 272’ gestation barn south of the existing gestation barn. Total proposed animal numbers on the farm will not change and are 1,130 sows & litters, 4,700 breeding/gestating sows, 1,500 gilt and 640 nursery pigs. Total animal units on this farm is 2,996. This is a Class IC CAFO as defined by the Missouri Department of Natural Resources.

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The registered agent for Advanced Pork Systems LLC is Robert H. Zeyesing, 1700 West College Street, P.O. Box 158, Marshall, MO 65340, (660) 886-9681. Additional information can be obtained from Doug Garrison (660) 254-1334 or Mr. Zeyesing at the above address or phone number.

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Sincerely,

Jeff E. Browning, P.E.

Enclosures: USGS Topographic Map and General Location Map
December 26, 2020

Hannah & Hannah Rev. Tr., c/o: Marcia Campbell
23007 X Avenue
Tarkio, MO 64491

Dear Ms. Campbell:

Advanced Pork Systems LLC is planning a barn addition to the A4 Sow Farm located in Sections 29, Township 6S, Range 38W, in Atchison County Missouri. Advanced Pork Systems LLC owns 28.6 acres at this location that will be utilized for this farming operation. The enclosed topographic map at a scale of 1" = 1000' defines the general layout of the facility and location of the proposed new barn. Despite the addition of a new barn, the farm is not adding any new animals. The purpose of the addition is to create more space for each sow in gestation.

The new construction will add a 177'10" x 272' gestation barn south of the existing gestation barn. Total proposed animal numbers on the farm will not change and are 1,130 sows & litters, 4,700 breeding/gestating sows, 1,500 gilts and 640 nursery pigs. Total animal units on this farm is 2,996. 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 and nursery barns have a two-foot deep pit which are periodically drained to the adjacent deep-pit breeding/gestation barn via a permanent sewer pipe underground. The gilt development (GDU) barn has an eight-foot deep pit and the proposed new gestation barn will also have an eight-foot deep pit. The pits store the manure laden wastewater until it can be pumped to nearby farm fields for nutrient utilization.

The proposed gestation 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 in a static pile composter with a roof and concrete floor and finished compost material is land applied for nutrient utilization.

The registered agent for Advanced Pork Systems LLC is Robert H. Zeysing, 1700 West College Street, P.O. Box 158, Marshall, MO 65340, (660) 886-9681. Additional information can be obtained from Doug Garrison (660) 254-1334 or Mr. Zeysing at the above address or phone number.

The Missouri Department of Natural Resources will accept written comments from the public concerning this proposed farm for a period of 30 days. The DNR's address is: Missouri Department of Natural Resources, Attn: Water Protection Program - CAFO, P.O. Box 176, Jefferson City, MO 65102.

Sincerely,

Jeff E. Browning, P.E.

Enclosures: USGS Topographic Map and General Location Map
December 26, 2020

Hurst Rev. Tr, Cornflower Tr, Hurst Tr., c/o: Nancy Hurst
612 Park Street
Tarkio, MO 64491

Dear Mrs. Hurst:

Advanced Pork Systems LLC is planning a barn addition to the A4 Sow Farm located in Sections 29, Township 65N, Range 38W, in Atchison County Missouri. Advanced Pork Systems LLC owns 28.6 acres at this location that will be utilized for this farming operation. The enclosed topographic map at a scale of 1" = 1000' defines the general layout of the facility and location of the proposed new barn. Despite the addition of a new barn, the farm is not adding any new animals. The purpose of the addition is to create more space for each sow in gestation.

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Sincerely,

Jeff E. Browning, P.E.

Enclosures: USGS Topographic Map and General Location Map
December 26, 2020

Janet Rhoden, c/o: Ryan Sadler  
P.O. Box 314  
Maryville, MO 64468

Dear Mr. Sadler:

Advanced Pork Systems LLC is planning a barn addition to the A4 Sow Farm located in Sections 29, Township 65N, Range 38W, in Atchison County Missouri. Advanced Pork Systems LLC owns 28.6 acres at this location that will be utilized for this farming operation. The enclosed topographic map at a scale of $1" = 1000'$ defines the general layout of the facility and location of the proposed new barn. Despite the addition of a new barn, the farm is not adding any new animals. The purpose of the addition is to create more space for each sow in gestation.

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Sincerely,

Jeff E. Browning, P.E.

Enclosures: USGS Topographic Map and General Location Map
December 26, 2020

Lauren, Brent & Sherry Smith
17355 State Hwy O
Tarkio, MO 64491

Dear Lauren, Brent & Sherry Smith:

Advanced Pork Systems LLC is planning a barn addition to the Ad Sow Farm located in Sections 29, Township 65N, Range 38W, in Atchison County Missouri. Advanced Pork Systems LLC owns 28.6 acres at this location that will be utilized for this farming operation. The enclosed topographic map at a scale of 1" = 1000" defines the general layout of the facility and location of the proposed new barn. Despite the addition of a new barn, the farm is not adding any new animals. The purpose of the addition is to create more space for each sow in gestation.

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The Missouri Department of Natural Resources will accept written comments from the public concerning this proposed farm for a period of 30 days. The DNR's address is: Missouri Department of Natural Resources, Attn: Water Protection Program - CAFO, P.O. Box 176, Jefferson City, MO 65102.

Sincerely,

[Signature]

Jeff E. Browning, P.E.

Enclosures: USGS Topographic Map and General Location Map
December 26, 2020

Turnbull Farms, LLC
506 Spruce Street
Tarkio, MO 64491

Dear Turnbull Farms:

Advanced Pork Systems LLC is planning a barn addition to the A4 Sow Farm located in Sections 29, Township 65N, Range 38W, in Atchison County Missouri. Advanced Pork Systems LLC owns 28.6 acres at this location that will be utilized for this farming operation. The enclosed topographic map at a scale of 1” = 1000’ defines the general layout of the facility and location of the proposed new barn. Despite the addition of a new barn, the farm is not adding any new animals. The purpose of the addition is to create more space for each sow in gestation.

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Sincerely,

Jeff E. Browning, P.E.

Enclosures: USGS Topographic Map and General Location Map
ALLIED ENGINEERING SERVICES, LLC

Engineering—Surveying

December 26, 2020

Bryan & Christina Marison Rev. Trust
c/o: Christina Marison
25479 State Hwy PP
Skidmore, MO 64487

Dear Ms. Marison:

Advanced Pork Systems LLC is planning a barn addition to the A4 Sow Farm located in Sections 29, Township 65N, Range 38W, in Atchison County Missouri. Advanced Pork Systems LLC owns 28.6 acres at this location that will be utilized for this farming operation. The enclosed topographic map at a scale of 1" = 1000' defines the general layout of the facility and location of the proposed new barn. Despite the addition of a new barn, the farm is not adding any new animals. The purpose of the addition is to create more space for each sow in gestation.

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Sincerely,

Jeff E. Browning, P.E.

Enclosures: USGS Topographic Map and General Location Map
Advanced Pork Systems
A-4 Sow Farm
General Location Map
T65N, R38W, Section 29
Atchison County, Missouri