Item #7
3/20/18

**PLANNING & DEVELOPMENT**
600 West Fourth Street
Davenport, Iowa 52801-1106
E-mail: planning@scottcountyiowa.com
Office: (563) 326-8643 Fax: (563) 326-8257

Timothy Huey
Director

To: Mahesh Sharma, County Administrator

From: Timothy Huey, Planning Director

Date: March 13, 2018

**Re: Public Hearing on the State Construction Permit Application of JT Allens Grove Pork LLC. in the NE ¼ of SE ¼ & SE ¼ of NE ¼ of Section 32 T80N, R2E (Allens Grove Township) for two confined animal feeding buildings at 26413 75th Avenue in unincorporated Scott County.**

On March 2nd the above referenced application was submitted to Scott County prior to submission to the Iowa DNR. Scott County has 30 days from the date it is received by the DNR to submit comments and a recommendation on that application. The DNR has notified Scott County it has received this application. Notice of the receipt of this application will be published as a public notice on March 14th. The notice of a public hearing to be held on the application at the March 22nd Board meeting will be published at the same time as well as mailed to the property owners within 500 feet of the property. The Board will be able to act on a recommendation at the Board meeting on April 5th so that the Board's recommendation can be submitted to the DNR within the required timeframe.

This request is for the construction of two new hog confinement buildings on farmland located on 75th Avenue in Section 32 of Allens Grove Township and requires compliance with the standards of the Master Matrix.

The Health Department and Planning and Development staff will review of this request for compliance with the Master Matrix and CAFO standards. The Health Department will also review the manure management plan. Staff will report on its determinations at the Committee of the Whole meeting on April 3rd. Staff will include any written comments and a summary of any verbal comments received at the public hearing with the Board's recommendation to the IDNR.

Staff will be accompanying the IDNR inspector from the Washington, Iowa district office on his inspection of the site. Staff will report on that inspection and will also be ready to make a recommendation to the Board at the Committee of the Whole meeting on Tuesday, April 3rd following our review of the application and the site inspection visit.

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**NOTICE OF PUBLIC HEARING TO BE HELD BY THE SCOTT COUNTY BOARD OF SUPERVISORS FOR THE REVIEW OF AN APPLICATION FOR A STATE CONSTRUCTION PERMIT FOR THE CONSTRUCTION OF A NEW CONFINED ANIMAL FEEDING OPERATION**

Public Notice is hereby given that the Scott County Board of Supervisors will hold a public hearing on **Thursday, March 22, 2018**, in the Board Room in the Scott County Administrative Center, 600 West 4th Street, Davenport, Iowa, during their regular meeting which starts promptly at **5:00 P.M.**

The Scott County Board of Supervisors will review and hear public comments on the State of Iowa Construction Permit application of JT Allens Grove Pork LLC. in the NE ¼ of SE ¼ & SE ¼ of NE ¼ of Section 32, T80N, R2E (Allens Grove Township) for the construction of a new confined animal feeding operation. The address of the subject property is 26413 75th Avenue, Dixon, Iowa 52745.

The proposed confined animal feeding operation would have an Animal Unit Capacity (AUC) of 1,920. The proposal would include the construction of two (2) new structures, both 241' x 81' wean-finish barns. The new buildings would be constructed as formed manure storage structures with 8' deep concrete pits below the slatted floors.

A copy of the application is on file with the Scott County Planning and Development Department and is available for review prior to the hearing during normal working hours 8:00 AM to 4:30 PM, Monday through Friday. If you have questions or want further information please call or write the Planning and Development Department, Scott County Administrative Center, 600 West 4th Street, Davenport, Iowa 52801, 563-326-8643, or attend the hearing.

Written, faxed or emailed comments for the Board of Supervisors may be delivered or sent to the Scott County Planning and Development Department in advance of the public hearing. All comments will be forwarded to the Iowa Department of Natural Resources. The fax number for Scott County Planning and Development is 563-326-8257 and the email address is planning@scottcountyiowa.com

Timothy Huey
Director

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**PUBLIC NOTICE TO ALLOW FOR REVIEW AND COMMENT ON AN APPLICATION FOR A STATE CONSTRUCTION PERMIT FOR THE CONSTRUCTION OF A NEW ANIMAL CONFINEMENT FEEDING OPERATION**

The Scott County Board of Supervisors has on file an application for a State of Iowa construction permit that has been submitted to the Iowa Department of Natural Resources for the construction of a new animal (hog) confinement feeding operation in Scott County.

| | |
|---|---|
| Name of Applicant: | JT Allens Grove Pork LLC. |
| Address: | 26413 75th Avenue<br>Dixon, Iowa 52745 |
| Location of operation: | NE ¼ of SE ¼ & SE ¼ of NE ¼ of Section 32<br>T80N, R2E (Allens Grove Township) |
| Description of application: | The proposed confined animal feeding operation would have an Animal Unit Capacity (AUC) of 1,920. The proposal would include the construction of two (2) new structures, both 241' x 81' wean-finish barns. The new buildings would be constructed as formed manure storage structures with 8' deep concrete pits below the slatted floors. |
| Examination: | The application for a State Construction Permit and associated manure management plan is on file with the Scott County Planning and Development Department located at 600 West 4th Street, Davenport, Iowa and is available for review by the public during normal working hours 8 AM to 4:30 PM, Monday through Friday. |
| Comments: | Written, faxed or emailed comments for the Board of Supervisors may be delivered or sent to the Scott County Planning and Development Department until Thursday, March 29, 2018 at 4:00 PM. All comments will be forwarded to the Iowa Department of Natural Resources. The fax number for Planning and Development is 563-326-8257 and the email address is planning@scottcountyiowa.com |
| Additional Information: | Timothy Huey, Planning and Development Director<br>600 West 4th Street<br>Davenport, Iowa 52801<br>563-326-8643 |

# Construction Design Statement (CDS)

Instructions:

1. This form is for new or expanding confinement feeding operations with an AUC[1] of more than 500 AU, not required to have a professional engineer (PE)[2], that are proposing to construct a formed manure storage structure[3].
2. Complete and submit Sections 1, 2 and 3 (pages 1 to 6).
3. Complete and submit Section 4 (page 6) only if you are applying for a construction permit and are constructing three or more confinement feeding operation structures[4].
4. Mail only pages 1 to 6, as instructed on page 6 and 7. Do not mail the remainder of this form.
5. If the site-specific design is sealed by a PE[2], do not use this CDS instead use DNR Form 542-8122.

## Section 1 - Information about the proposed formed manure storage structure[3](s)

A) Information about the operation:

Name of operation: JT ALLENS GROVE PORK, LLC Facility ID No.: _____

Location:

| NE | SE | 32 | T80N, R02E | ALLENS GROVE | SCOTT |
|---|---|---|---|---|---|
| (¼ ¼) | (¼) | (Section) | (Tier & Range) | (Name of Township) | (County) |

B) Description of the proposed formed manure storage structure[3]. Include dimensions (length, width, or diameter, depth). Indicate if it is aboveground or belowground; covered or uncovered, made of concrete or steel, address location of pit fans, if applicable, and address water line entry into buildings. If necessary attach more pages:

(2) 81'2" X 241'4" Belowground, Covered, Concrete Pit Foundation

All Pit Fans located on Concrete Pumpouts

No Water Line Entry through Pit Wall

C) **Aerial photos:** Aerial photos must be submitted that clearly show the location of all existing and proposed confinement feeding operation structures and show at least a one-mile radius around the structures. The photos must either show roads on the north and south or east and west sides of a section (so that a mile distance is apparent), or include a distance scale.

The photo(s) must show that the proposed structures comply with all statutory minimum required separation distances to the objects listed below:

- Residences (not owned by the permit applicant), churches, businesses, schools, public use areas
- Water wells (depends on type)
- Major water sources, wellhead or cistern of an agricultural drainage well or known sinkholes
- Water sources (other than major water sources) and surface intakes of an agricultural drainage well
- Designated wetlands
- Road right-of-way

The separation distance to each of the above objects must be noted with a straight line between the proposed structure(s) and the object. If any of the above objects is not located within one mile from the proposed structures, note the fact on the photo(s) or use additional pages. (Example: "No agricultural drainage wells within one mile.")

All separation distances that are not clearly in excess of the required minimum separation distance must be measured according to 567 IAC 65.11(9) using standard survey methods. Go to the DNR fact sheet page at http://www.iowadnr.gov/Environmental-Protection/Land-Quality/Animal-Feeding-Operations/AFO-Resources/AFO-Factsheets and select DNR fact sheet "Distance Requirements for Construction" to find the required separation distances. Or, go directly to: http://www.iowadnr.gov/Portals/idnr/uploads/forms/5421420.pdf. An example aerial photo can be found on pages 18 to 19 of the AFO Construction Permit Application (DNR Form 542-1428). Or, go directly to: http://www.iowadnr.gov/Portals/idnr/uploads/afo/fs_iemap.pdf.

**Note**: If a master matrix is required, the photos must also show that the additional separation distances required for any points claimed in matrix criteria one through ten will be met for the objects listed above. Note the additional separation distance by drawing a straight line between the proposed structures and the matrix item.

[1] To determine the AUC see the 'Manure Storage Indemnity Fee' (Form 542-4021) or the 'Construction Permit Application' (Form 542-1428), or visit http://www.iowadnr.gov

[2] PE is a professional engineer licensed in the state of Iowa or a NRCS-Engineer working for the USDA-Natural Resources Conservation Service (NRCS).

[3] Formed manure storage structure means a covered or uncovered concrete or steel tank, including concrete pits below the floor.

[4] Confinement feeding operation structure = A confinement building, a formed or unformed manure storage structure, or an egg washwater storage structure.

D) **Karst Determination:** Go to DNR AFO Siting Atlas at http://programs.iowadnr.gov/maps/afo/. Search for your site by either scrolling into your location or entering an address or legal description in the bottom search bar. Left click on the location of your proposed structure. Make sure the karst layer box is checked on the map layers. If you cannot access the map, or if you have questions about this issue, contact the AFO Engineer at 712-262-4177. Check one of the following:

☒ The site is not in karst or potential karst. Print and enclose the map with the name and location of the site clearly marked.

☐ The Siting Atlas has indicated that the site is in karst. The upgraded concrete standards of 567 IAC 65.15(14)"c" must be used. Complete and sign Section 3.H (page 5).

E) **Alluvial Soils Determination:** Go to the AFO Siting Atlas as described above. Make sure the alluvial box is checked on the map layers. If you cannot access the map, or if you have questions about this issue, contact DNR Flood Plain at 866-849-0321. Check one of the following:

☐ The site is not in alluvial soils. Print and enclose the map with the name and location of the site clearly marked.

☒ If the site is in alluvial soils contact DNR Flood Plain at 866-849-0321. You will be required to submit a petition for a declaratory order if less than 1000 AU or request a flood plain determination if 1000 AU or greater. After receiving Flood Plain determination, submit one of the following:

☐ Include correspondence from the DNR showing the site is not in 100-year flood plain or does not require a Flood Plain permit. .

☐ Include copy of the Flood Plain permit if a Flood Plain permit is required.

**Section 2 - Manure management plan:**

☒ An original manure management plan (MMP) is enclosed with this form, even if a MMP was previously filed.

| Tom Dittmer Mgr. | T Dittmer Mgr | 3-2-18 |
|---|---|---|
| Owner's Name (print) | Owner's Signature | Date |

**Section 3 - Construction design standards:** The person responsible for constructing the formed manure storage structure(s)[3] must complete Section 3.

A) **Liquid and semi-liquid manure**: The proposed formed manure storage structure[3] will be (check one):

A.1 ☒ A non-circular concrete tank, belowground, with walls laterally braced or below the building concrete pit designed according to 567 IAC Chapter 65, Appendix D.

A.2 ☐ A non-circular concrete tank, belowground, walls designed according to MidWest Plan Service (MWPS), publication MWPS-36. Include design calculations.

A.3 ☐ A circular concrete tank, walls designed according to MidWest Plan Service (MWPS), publication MWPS TR-9. Include design calculations.

A.4 ☐ Will be made of steel, constructed aboveground according to the manufacturer's recommendations.

B) **Dry manure**: The proposed formed manure storage structure[3] will be (check one):

B.1 ☐ An aboveground concrete tank, with walls designed according to MWPS-36. Include design calculations.

B.2 ☐ Will be made of steel, constructed aboveground according to the manufacturer's recommendations.

B.3 ☐ Will be a belowground or partially belowground concrete tank, with walls laterally braced designed according to 567 IAC Chapter 65, Appendix D or MWPS-36. Include design calculations.

We have requested a flood plain detemination w/ DNR Flood plain Dept.
DNR Tracking / Work Record # is: 86023
(SEE ATTACHED)

C) **Details of the proposed design**: Submit an additional completed copy of this page 3 for each formed manure storage structure[3] that have different dimensions. Complete all of the following information:

Number of buildings: 2 Building name: JT Allens Grove Pork, LLC

Dimensions of proposed formed manure storage structure[3]

| | Length | Width | Height or depth | Wall thickness | Diameter (circular tanks only) |
|---|---|---|---|---|---|
| Feet | 241 | 81 | 8 | 0 | |
| Inches | 4 | 2 | 0 | 9 | |

To determine the appropriate vertical steel in walls, first check one of the following boxes (must check one):

☐ a. To use Tables D-1 and D-2 (on pages 7-8), backfilling of walls shall be performed with gravel, sand, silt, and clay mixtures (less than 50 percent fines), with coarse sand with silt or clay (less than 50 percent fines), or cleaner granular material (see page 9 for the unified soils classification). You will need to submit a copy of a USDA soil survey map with the proposed location of the formed manure storage structures[3] clearly marked showing the unified soil classification; or a statement signed by a qualified organization or NRCS staff.

☒ b. Use Tables D-3 and D-4 (on pages 8-9) if backfilling of walls will be performed with soils that are unknown or with low plasticity silts and clays with some sand or gravel (50 percent or more fines); or fine sands with silt or clay (less than 50 percent fines); or low to medium plasticity silts and clays with little sand or gravel (50 percent or more fines); or high plasticity silts and clays (see page 9 for unified soils classification). You must use Tables D-3 and D-4 if you do not submit the soils information requested in box "a", above.

**Maximum spacing of steel, in inches**

| Description of reinforcing steel in walls | Proposed vertical steel in walls [see boxes "a" and "b", above] | | | | Proposed horizontal steel in walls (use Table D-5) |
|---|---|---|---|---|---|
| | Walls where vehicles are **not** allowed within 5 feet (use Table D-1)[a] | All walls with pumpout ports and walls where vehicles are allowed within 5 feet (use Table D-2)[a] | Walls where vehicles are **not** allowed within 5 feet (use Table D-3)[b] | All walls with pumpout ports and walls where vehicles are allowed within 5 feet (use Table D-4)[b] | |
| Grade 40, No. 4 | | | | | 12 |
| Grade 40, No. 5 | | | | | |
| Grade 60, No. 4 | | | | 9 | |
| Grade 60, No. 5 | | | | | |

D) **Aboveground tanks or partially aboveground tanks:** Liquid and semi-liquid manure (check the following box):

☐ If the proposed tank is to be constructed **aboveground or partially aboveground** and will have an external outlet or inlet below the liquid level, the tank will also be constructed according to the 567 IAC 65.15(20).

E) **Steel Tanks:** Certification that the tank will be constructed according to the tank manufacturer's specifications:

Name of tank manufacturer company: _____

Address: _____

Telephone: _____ Fax: _____

F) **Additional construction design standards:**

To determine the additional requirements set forth in 567 IAC 65.15(14) that would apply to the proposed formed manure storage structure[3], check any of the following 3 boxes based on the information entered on Sections 3.A or 3.B (page 2):

☒ If you checked boxes A.1, A.2, A.3 or B.3 (on page 2) **all** of the following 15 additional requirements apply. Complete the numbered items 1 to 15 (below).

☐ If you checked box B.1 (on page 2), only the requirements of numbered items 1, 3, 4, 5, 6, 8 and 12 apply and need to check those boxes (below).

☐ If you checked boxes A.4 or B.2 (on page 2) and the steel tank will have a concrete floor, only the requirements of numbered items 1, 2, 3, 4, 5, 8, 9, 12, apply and need to check those boxes (below).

**Additional Requirements that will be followed during construction of the formed manure storage structure(s)[3]:**

1. Site preparation (check the following box):

☒ The finished subgrade of a formed manure storage structure shall be graded and compacted to provide a uniform and level base and shall be free of vegetation, manure and debris. For the purpose of this subrule, "uniform" means a finished subgrade with similar soils.

2. Groundwater separation requirements (check one of the following boxes):

☒ When the groundwater table, as determined in 65.15(7)"c," is above the bottom of the formed structure, a drain tile shall be installed along the footings to artificially lower the groundwater table pursuant to 65.15(7)"b"(2). The drain tile shall be placed within 3 feet of the footings as indicated in Appendix D, Figure D-1, at the end of this chapter and shall be covered with a minimum of 2 inches of gravel, granular material, fabric or a combination of these materials to prevent plugging the drain tile. A device to allow monitoring of the water in the drainage tile lines installed to lower the groundwater table and a device to allow shutoff of the drainage tile lines shall be installed if the drainage tile lines do not have a surface outlet accessible on the property where the formed manure storage structure is located.

☐ In lieu of the drain tile, a certification signed by a PE[2], a groundwater professional certified pursuant to 567 Chapter 134, or a qualified staff from NRCS, is being submitted indicating that the groundwater elevation, according to 65.15(7)"c", is below the bottom of the formed structure.

3. Minimum as-placed concrete compressive strength (check the following box):

☒ All concrete shall have the following minimum as-placed compressive strengths and shall meet American Society for Testing and Materials (ASTM) standard ASTM C 94: 4,000 pounds per square inch (psi) for walls, floors, beams, columns and pumpouts and 3,000 psi for the footings. The average concrete strength by testing shall not be below design strength. No single test result shall be more than 500 psi less than the minimum compressive strength.

4. Cement and aggregates specifications (check the following box):

☒ Cementitious materials shall consist of Portland cement conforming to ASTM C 150. Aggregates shall conform to ASTM C 33. Blended cements in conformance with ASTM C 595 are allowed only for concrete placed between March 15 and October 15. Portland-pozzolan cement or Portland blast furnace slag blended cements shall contain at least 75 percent, by mass, of Portland cement.

5. Concrete consolidation and vibration requirements (check the following box):

☒ All concrete placed for walls shall be consolidated or vibrated, by manual or mechanical means, or a combination, in a manner which meets ACI 309.

6. Minimum rebar specifications: (check the following box):

☒ All rebar used shall be a minimum of grade 40 steel. All rebar, with the exception of rebar dowels connecting the walls to the floor or footings, shall be secured and tied in place prior to the placing of concrete.

7. Wall reinforcement placement specifications (check the following box):

☒ All wall reinforcement shall be placed so as to have a rebar cover of 2 inches from the inside face of the wall for a belowground manure storage structure. Vertical wall reinforcement should be placed closest to the inside face. Rebar placement shall not exceed tolerances specified in ACI 318.

8. Minimum floor specifications. Complete part a) and b):

a) Floor thickness requirements (check the following box):

☒ The floor slab shall be a minimum of 5 inches thick. Nondestructive methods to verify the floor slab thickness may be required by the department. The results shall indicate that at least 95 percent of the floor slab area meets the minimum required thickness. In no case shall the floor slab thickness be less than 4½ inches.

b) The floor slab reinforcement shall be located in the middle of the thickness of the floor slab (check one of the following boxes):

☒ Formed manure storage structures with a depth of 4 feet or more shall have primary reinforcement consisting of a minimum of #4 rebar placed a maximum of 18 inches on center in each direction placed in a single mat.

☐ Formed manure storage structure with a depth less than 4 feet shall have shrinkage reinforcement consisting of a minimum of 6 × 6-W1.4 × W1.4 welded wire fabric.

9. Minimum footing specifications (check the following box):

☒ The footing or the area where the floor comes in contact with the walls and columns shall have a thickness equal to the wall thickness, but in no case be less than 8 inches, and the width shall be at least twice the thickness of the footing. All exterior walls shall have footings below the frostline. Tolerances shall not exceed -½ inch of the minimum footing dimensions.

10. Requirement to connect walls to footings (check one of the following boxes):

☐ The vertical steel of all walls shall be extended into the footing, and be bent at 90°, OR

☒ A separate dowel shall be installed as a #4 rebar that is bent at 90° with at least 20 inches of rebar in the wall and extended into the footing within 3 inches of the bottom of the footing and extended at least 3 inches horizontally, as indicated in Appendix D, Figure D-1 (page 10). Dowel spacing (bend or extended) shall be the same as the spacing for the vertical rebar.

☐ As an alternative to the 90°bend, the dowel may be extended at least 12 inches into the footing, with a minimum concrete cover of 3 inches at the bottom, as indicated in Appendix D, Figure D-1 (page 10). Dowel spacing (bend or extended) shall be the same as the spacing for the vertical rebar.

☐ In lieu of dowels, mechanical means or alternate methods may be used as anchorage of interior walls to footings. Please submit structural calculations and details of this proposal.

11. Concrete forms specifications (check the following box):
☒ All walls shall be formed with rigid forming systems and shall not be earth-formed.

12. Curing of concrete requirements (check the following box):
☒ All concrete shall be cured for at least seven days after placing, in a manner which meets ACI 308, by maintaining adequate moisture or preventing evaporation. Proper curing shall be done by ponding, spraying or fogging water; or by using a curing compound that meets ASTM C 309; or by using wet burlap, plastic sheets or similar materials.

13. Construction joints and waterstops specifications (check the following box):
☒ All construction joints in exterior walls shall be constructed to prevent discontinuity of steel and have properly spliced rebar placed through the joint. Waterstops shall be installed in all areas where fresh concrete will meet hardened concrete as indicated in Appendix D, Figures D-1 and D-2, at the end of this chapter. The waterstops shall be made of plastic, rolled bentonite or similar materials approved by the department.

14. Backfilling of walls specifications (check the following box):
☒ Backfilling of the walls shall not start until the floor slats or permanent bracing have been installed. Backfilling shall be performed with material free of vegetation, large rocks or debris.

15. Additional design requirements (check the following box, if applicable):
☐ A formed manure storage structure with a depth greater than 12 feet shall be designed by a PE or an NRCS engineer.

**G) Construction Certification:** The person responsible for constructing the formed manure storage structure[3] must sign this page. Any change(s) to the specifications of the formed manure storage structure must be first approved by DNR:

"I hereby certify that I have read and understand the minimum design and construction standards of Iowa Code chapter 459, Subchapter III, and the 567 Iowa Administrative Code (IAC) 65.15(14) "Minimum concrete standards" or 567 IAC 65 (if other than concrete)." The proposed formed manure storage structure(s)[3] at the operation:

Name of operation: JT ALLENS GROVE PORK, LLC County: SCOTT

Owner's name: JT ALLENS GROVE PORK, LLC

will be constructed in accordance with these minimum requirements. Included with this certification are:

☒ Page 3, for each formed manure storage structure[3] that have different dimensions
☒ Pages 4 to 6 (applicable sections)
☐ Other documents (specify): _____

| Darrin Vittetoe | Darri Vittetoe | 02-28-18 |
|---|---|---|
| (Print name) | (Signature) | (Date) |
| Custom Builders Inc. | 209 W. South St. Tipton, Ia. 52772 | 563-886-6196 |
| (Company) | (Address) | (Phone No.) |

(See page 6 for mailing instructions)

**H) Upgraded Concrete Standards Certification:** If the site is in karst according to Section 1.D (page 2) the person responsible for constructing the formed manure storage structure must also complete this section:

567 IAC 65.15(14)"c". Karst terrain - upgraded standards. If the site of the proposed formed manure storage structure is located in an area that exhibits karst terrain or an area that drains into a known sinkhole, the minimum concrete standards set forth in 65.15(14)"a" or "b" shall apply. In addition, the following requirements apply to all formed manure storage structures that store nondry or dry manure (check all of the following boxes):

☐ (1) A minimum 5-foot vertical separation distance between the bottom of a formed manure storage structure and limestone, dolomite, or other soluble rock is required if the formed manure storage structure is not designed by a PE or an NRCS engineer.

☐ (2) If the vertical separation distance between the bottom of the proposed formed manure storage structure and limestone, dolomite, or other soluble rock is less than 5 feet, the structure shall be designed and sealed by a PE or an NRCS engineer who certifies the structural integrity of the structure. A 2-foot-thick layer of compacted clay liner material shall be

constructed underneath the floor of the formed manure storage structure. However, it is recommended that any formed manure storage structure be constructed aboveground if the vertical separation distance between the bottom of the structure and the limestone, dolomite, or other soluble rock is less than 5 feet.

☐ (3) In addition, in an area that exhibits karst terrain or an area that drains into a known sinkhole, a PE, an NRCS engineer or a qualified organization shall submit a soil exploration study based on the results from soil borings or test pits to determine the vertical separation between the bottom of the formed structure and limestone, dolomite, or other soluble rock. A minimum of two soil borings, equally spaced within each formed structure, or two test pits outside of each formed structure, are required. After soil exploration is completed, each soil boring and pit shall be properly plugged with concrete grout, bentonite, or similar materials.

☐ (4) Groundwater monitoring shall be performed as specified by the department.

☐ (5) Backfilling shall not start until the floor slats have been placed or permanent bracing has been installed, and shall be performed with material free of vegetation, large rocks, or debris.

"I have read and understand the upgraded concrete standards of IAC 65.15(14)"c", and certify that the proposed formed manure storage structure(s)[3] at the above operation will be constructed according to these standards":

| (Print name) | (Signature) | (Date) |
|---|---|---|
| (Company) | (Address) | (Phone No.) |

**Section 4 - Drainage Tile Certification: Required only if applying for a construction permit and constructing three or more confinement feeding operations structures[4].** This section must be completed and signed by the person responsible for excavating the confinement feeding operation structure[4]:

567 IAC 65.15(1) - Drainage tile removal for new construction of a manure storage structure. Prior to constructing a manure storage structure, other than storage of manure in an exclusively dry form, the site for the animal feeding operation structure shall be investigated for drainage tile lines as provided in this subrule. All applicable records of known drainage tiles shall be examined for the existence of drainage tile lines.

c. The applicant for a construction permit for a formed manure storage structure shall investigate for tile lines during excavation for the structure. Drainage tile lines discovered upgrade from the structure shall be rerouted around the formed manure storage structure to continue the flow of drainage. All other drainage tile lines discovered shall be rerouted, capped, plugged with concrete, Portland cement concrete grout or similar materials or reconnected to upgrade tile lines. Drainage tile lines installed at the time of construction to lower a groundwater table may remain where located. A device to allow monitoring of the water in the drainage tile lines and a device to allow shutoff of the drainage tile lines shall be installed if the drainage tile lines do not have a surface outlet accessible on the property where the formed manure storage structure is located.

"I certify that I have read and understand the requirements of 567 IAC 65.15(1)"c" and that to the best of my knowledge, information and belief, the proposed confinement feeding operation structures[4] at:

Name of operation: _____ County: _____

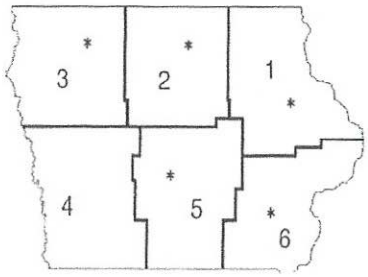
Owner's name: _____

will not impede the drainage of established drainage tile lines which cross their property lines and if construction disturbs drainage tile lines, I will take the necessary measures to reestablish drainage and, upon completion of construction, file a statement that those measures were taken to reestablish drainage."

| (Print name) | (Signature) | (Date) |
|---|---|---|
| (Company) | (Address) | (Phone No.) |

**Mailing Instructions:** Mail only pages 1 to 6 of this CDS according to the following:

1. Operations not needing a construction permit (AUC[1] between 501 and 999 AU and constructing a formed manure storage structure[3]) but required to submit a manure management plan (MMP), at least **30 days** prior to beginning construction must file this CDS, the required karst and alluvial soils documentation requested in Section 1,C and 1,D (page 1) along with the required MMP documents and fees with the nearest DNR Field Office:




| | | |
|---|---|---|
| Field Office 1<br>909 W Main St Ste 4<br>Manchester, IA 52057<br>(563) 927-2640 | Field Office 3<br>1900 N Grand Ave<br>Spencer, IA 51301<br>(712) 262-4177 | Field Office 5<br>7900 Hickman Rd Ste 200<br>Windsor Heights, IA 50324<br>(515) 725-0268 |
| Field Office 2<br>2300 15th St SW<br>Mason City, IA 50401<br>(641) 424-4073 | Field Office 4<br>1401 Sunnyside Ln<br>Atlantic, IA 50022<br>(712) 243-1934 | Field Office 6<br>1023 W Madison<br>Washington, IA 52353<br>(319) 653-2135 |

2. If a construction permit is required (AUC[1] = 1,000 AU or more and constructing a formed manure storage structure[3]), mail this CDS, the required construction application documents and fees, at least 90 days prior to beginning construction, to allow for all actions required by Iowa law, to the AFO-Program (DNR Field Office 3, 1900 N Grand, Gateway North Ste E17, Spencer IA 51301). You must follow the instructions in the construction application form (DNR Form 542-1428).

If you have any questions regarding the concrete standards requirements and CDS, contact an engineer of the AFO- Program at 712-262-4177, the nearest DNR Field Office, or visit http://www.iowadnr.gov/afo.

**567—Iowa Administrative Code (IAC) Chapter 65, APPENDIX D**

DESIGN SPECIFICATIONS—FORMED MANURE STORAGE STRUCTURES

The following design specifications apply to a formed manure storage structure that is constructed belowground, is laterally braced and is not designed using MWPS-36 or by a PE or an NRCS engineer:

(1) The walls of a rectangular formed structure with a depth up to 12 feet shall be designed in accordance with the tables provided in this appendix.

(2) Consideration shall be given to internal and external loads including, but not limited to, lateral earth pressures, hydrostatic pressures, wind loads, and floor or cover, building and equipment loads.

(3) Each wall shall be braced laterally at the top of the wall.

(4) The walls shall be constructed above the groundwater table, or a drain tile shall be installed to artificially lower the groundwater table.

(5) Each wall that includes a pumpout port shall be constructed under the design consideration that vehicles will be operating within 5 feet of the wall as provided in Tables D-2 and D-4.

(6) Minimum wall thickness and minimum vertical steel reinforcement shall be in accordance with one of the following:

(a) Table D-1, if **all** of the following conditions are met:

1. There will be **NO VEHICLES** operating within 5 feet of the wall.
2. Backfilling is performed with **gravel, sand, silt, and clay mixtures (less than 50 percent fines), with coarse sand with silt or clay (less than 50 percent fines), or cleaner granular material** (see NRCS Conservation Practice Standard, "Waste Storage Facility," Code 313, Table 2, for description and unified classification or ASTM D 2488 and D 653).

APPENDIX D, TABLE D-1 [See footnote "a" on page 9]

Minimum Wall Thickness and Vertical Steel Reinforcement

| Wall height (feet) | Wall thickness (inches) | Steel Grade | | | |
|---|---|---|---|---|---|
| | | Grade 40 | | Grade 60 | |
| | | Bar | Space o.c. (inches) | Bar | Space o.c (inches) |
| 4 or less | 6 | # 4 | 16.5 | # 4 | 18.0 |
| | | # 5 | 18.0 | # 5 | 18.0 |
| 4 or less | 8 | # 4 | 12.0 | # 4 | 13.5 |
| | | # 5 | 18.0 | # 5 | 18.0 |
| 6 | 6 | # 4 | 14.5 | # 4 | 18.0 |
| | | # 5 | 18.0 | # 5 | 18.0 |
| 6 | 8 | # 4 | 12.0 | # 4 | 13.5 |
| | | # 5 | 18.0 | # 5 | 18.0 |
| 8 | 8 | # 4 | 9.5 | # 4 | 13.5 |
| | | # 5 | 14.5 | # 5 | 18.0 |
| 8 | 10 | # 4 | 9.5 | # 4 | 11.0 |
| | | # 5 | 15.0 | # 5 | 17.0 |
| 10 | 8 | # 4 | 6.5 | # 4 | 9.5 |
| | | # 5 | 10.0 | # 5 | 13.5 |
| 10 | 10 | # 4 | 6.5 | # 4 | 9.5 |
| | | # 5 | 10.0 | # 5 | 15.0 |
| 12 | 10 | # 4 | 5.0 | # 4 | 7.5 |
| | | # 5 | 7.5 | # 5 | 11.5 |

(b) Table D-2, if **all** of the following conditions are met:

1. There will be **VEHICLES** operating within 5 feet of the wall.
2. Backfilling is performed with **gravel, sand, silt, and clay mixtures (less than 50 percent fines), with coarse sand with silt or clay (less than 50 percent fines), or cleaner granular material** (see NRCS Conservation Practice Standard, "Waste Storage Facility," Code 313, Table 2, for description and unified classification or ASTM D 2488 and D 653).

APPENDIX D, TABLE D-2 [See footnote "a" on page 9]

Minimum Wall Thickness and Vertical Steel Reinforcement

| Wall height (feet) | Wall thickness (inches) | Steel Grade | | | |
|---|---|---|---|---|---|
| | | Grade 40 | | Grade 60 | |
| | | Bar | Space o.c. (inches) | Bar | Space o.c. (inches) |
| 4 or less | 6 | # 4 | 16.5 | # 4 | 18.0 |
| | | # 5 | 18.0 | # 5 | 18.0 |
| 4 or less | 8 | # 4 | 12.0 | # 4 | 13.5 |
| | | # 5 | 18.0 | # 5 | 18.0 |
| 6 | 6 | # 4 | 10.5 | # 4 | 15.5 |
| | | # 5 | 16.5 | # 5 | 18.0 |
| 6 | 8 | # 4 | 12.0 | # 4 | 13.5 |
| | | # 5 | 18.0 | # 5 | 18.0 |
| 8 | 8 | # 4 | 6.5 | # 4 | 10.0 |
| | | # 5 | 10.5 | # 5 | 16.0 |
| 8 | 10 | # 4 | 8.5 | # 4 | 11.0 |
| | | # 5 | 13.5 | # 5 | 17.0 |
| 10 | 8 | # 4 | 4.5 | # 4 | 6.5 |
| | | # 5 | 7.0 | # 5 | 10.5 |
| 10 | 10 | # 4 | 5.0 | # 4 | 7.5 |
| | | # 5 | 8.0 | # 5 | 12.0 |
| 12 | 10 | # 4 | 3.5 | # 4 | 5.5 |
| | | # 5 | 5.5 | # 5 | 8.5 |

(c) Table D-3, if **all** of the following conditions are met:

1. There will be **NO VEHICLES** operating within 5 feet of the wall.
2. Backfilling is performed with performed with **low plasticity silts and clays with some sand or gravel (50 percent or more fines); or fine sands with silt or clay (less than 50 percent fines); or low to medium plasticity silts and clays with little sand or gravel (50 percent or more fines); or high plasticity silts and clays** (see NRCS Conservation Practice Standard, "Waste Storage Facility," Code 313, Table 2, for description and unified classification or ASTM D 2488 and D 653).

APPENDIX D, TABLE D-3 [See footnote "b" on page 9]

Minimum Wall Thickness and Vertical Steel Reinforcement

| Wall height (feet) | Wall thickness (inches) | Steel Grade | | | |
|---|---|---|---|---|---|
| | | Grade 40 | | Grade 60 | |
| | | Bar | Space o.c. (inches) | Bar | Space o.c. (inches) |
| 4 or less | 6 | # 4 | 16.5 | # 4 | 18.0 |
| | | # 5 | 18.0 | # 5 | 18.0 |
| 4 or less | 8 | # 4 | 12.0 | # 4 | 13.5 |
| | | # 5 | 18.0 | # 5 | 18.0 |
| 6 | 6 | # 4 | 10.5 | # 4 | 15.5 |
| | | # 5 | 16.5 | # 5 | 18.0 |
| 6 | 8 | # 4 | 12.0 | # 4 | 13.5 |
| | | # 5 | 18.0 | # 5 | 18.0 |
| 8 | 8 | # 4 | 6.5 | # 4 | 10.0 |
| | | # 5 | 10.5 | # 5 | 16.0 |
| 8 | 10 | # 4 | 9.0 | # 4 | 11.0 |
| | | # 5 | 14.0 | # 5 | 17.0 |
| 10 | 8 | # 4 | 4.5 | # 4 | 6.5 |
| | | # 5 | 7.0 | # 5 | 10.0 |
| 10 | 10 | # 4 | 5.0 | # 4 | 7.5 |
| | | # 5 | 8.0 | # 5 | 12.0 |
| 12 | 10 | # 4 | 3.5 | # 4 | 5.0 |
| | | # 5 | 5.5 | # 5 | 8.0 |

(d) Table D-4, if **all** of the following conditions are met:

1. There will be **VEHICLES** operating within 5 feet of the wall.
2. Backfilling is performed with performed with **low plasticity silts and clays with some sand or gravel (50 percent or more fines); or fine sands with silt or clay (less than 50 percent fines); or low to medium plasticity silts and clays with little sand or gravel (50 percent or more fines); or high plasticity silts and clays** (see NRCS Conservation Practice Standard, "Waste Storage Facility," Code 313, Table 2, for description and unified classification or ASTM D 2488 and D 653).

APPENDIX D, TABLE D-4 [See footnote "b" on bottom of this page]

Minimum Wall Thickness and Vertical Steel Reinforcement

| Wall height (feet) | Wall thickness (inches) | Steel Grade | | | |
|---|---|---|---|---|---|
| | | Grade 40 | | Grade 60 | |
| | | Bar | Space o.c. (inches) | Bar | Space o.c. (inches) |
| 4 or less | 6 | # 4 | 16.5 | # 4 | 18.0 |
| | | # 5 | 18.0 | # 5 | 18.0 |
| 4 or less | 8 | # 4 | 12.0 | # 4 | 13.5 |
| | | # 5 | 18.0 | # 5 | 18.0 |
| 6 | 6 | # 4 | 8.0 | # 4 | 12.0 |
| | | # 5 | 12.5 | # 5 | 16.5 |
| 6 | 8 | # 4 | 9.5 | # 4 | 13.5 |
| | | # 5 | 15.0 | # 5 | 18.0 |
| 8 | 8 | # 4 | 6.0 | # 4 | 9.0 |
| | | # 5 | 9.0 | # 5 | 11.5 |
| 8 | 10 | # 4 | 6.0 | # 4 | 9.0 |
| | | # 5 | 9.5 | # 5 | 14.0 |
| 10 | 8 | # 4 | 3.0 | # 4 | 4.5 |
| | | # 5 | 4.5 | # 5 | 7.0 |
| 10 | 10 | # 4 | 4.5 | # 4 | 6.5 |
| | | # 5 | 6.5 | # 5 | 10.0 |
| 12 | 10 | # 4 | 2.5 | # 4 | 4.0 |
| | | # 5 | 4.0 | # 5 | 6.0 |

(7) Minimum horizontal steel for a rectangular tank shall be selected and placed according to Table D-5, regardless of wall height, and shall be tied to the soil side of vertical steel:

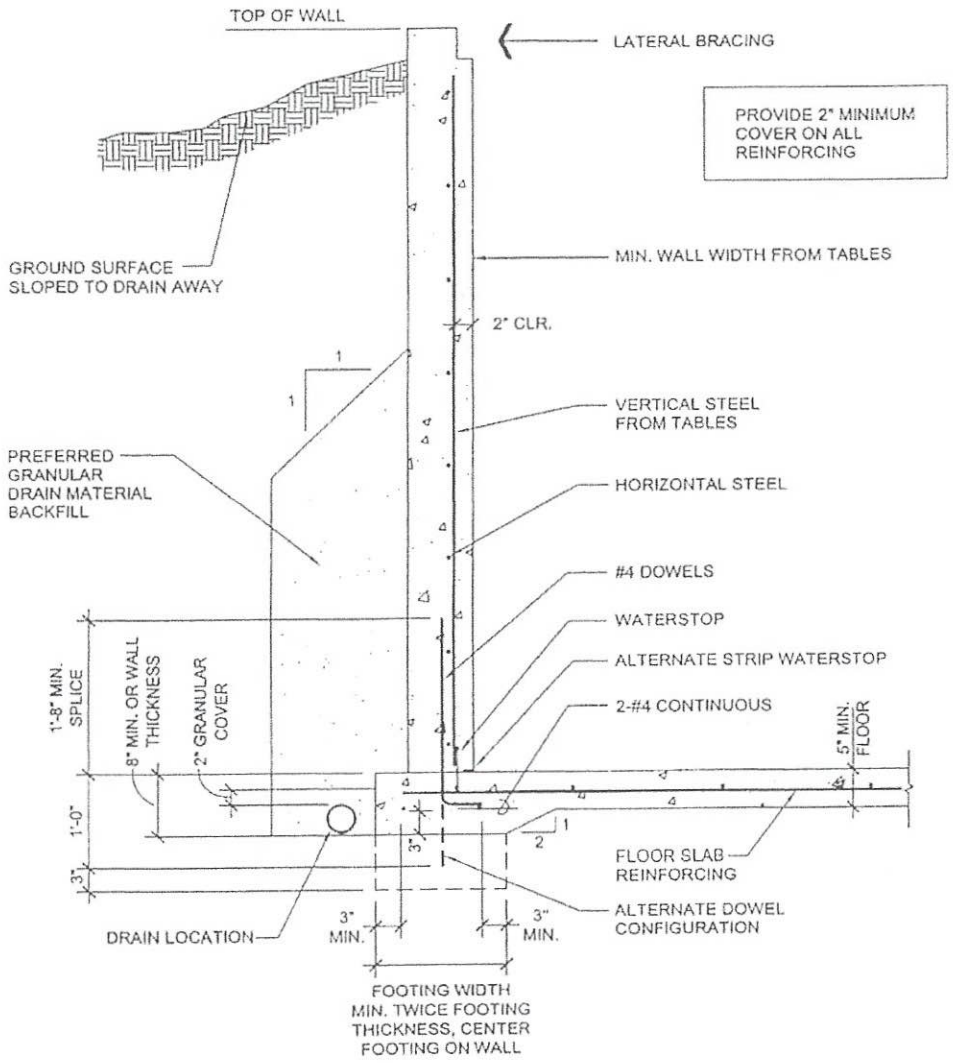
APPENDIX D, TABLE D-5

Horizontal Steel Reinforcement

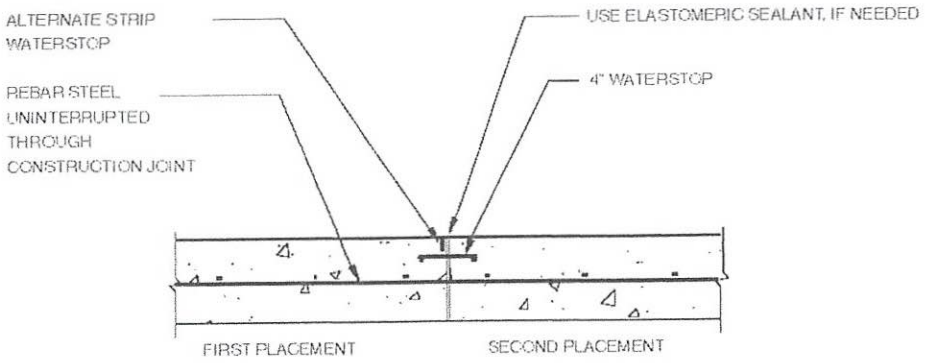
| Wall thickness | Steel Grade | | | |
|---|---|---|---|---|
| | Grade 40 | | Grade 60 | |
| | Bar | Space o.c. (inches) | Bar | Space o.c (inches). |
| 6 | # 4 | 16.5 | #4 | 18.0 |
| | # 5 | 18.0 | # 5 | 18.0 |
| 8 | # 4 | 12.0 | # 4 | 13.5 |
| | # 5 | 18.0 | # 5 | 18.0 |
| 10 | # 4 | 9.5 | # 4 | 11.0 |
| | # 5 | 15.0 | # 5 | 17.0 |

[a]To use Tables D-1 and D-2, the backfilling of the walls will be performed with gravel, sand, silt, and clay mixtures (less than 50 percent fines), with coarse sand with silt or clay (less than 50 percent fines), or cleaner granular material. The "Unified Soil Classification" corresponds to: GP, GW, SP, SW, GM, GC, SW, SC, SM, SC-SM. You will need to submit a copy of a USDA soil survey map with the proposed location of the formed manure storage structures[3] clearly marked showing the unified soil classification; or a statement signed by a qualified organization or NRCS staff.

[b]Use Tables D-3 and D-4 if the soils to be used for backfilling the walls are unknown or performed with low plasticity silts and clays with some sand or gravel (50 percent or more fines); or fine sands with silt or clay (less than 50 percent fines); or low to medium plasticity silts and clays with little sand or gravel (50 percent or more fines); or high plasticity silts and clays. The "Unified Soils Classification" corresponds to: CL, ML, CL-ML, SC, SM, SC-SM. Tables D-3 and D-4 must be used, if a copy of a USDA soil survey map with the proposed location of the formed manure storage structures[3] clearly marked showing the unified soil classification; or a statement signed by a qualified organization or NRCS staff is not submitted.



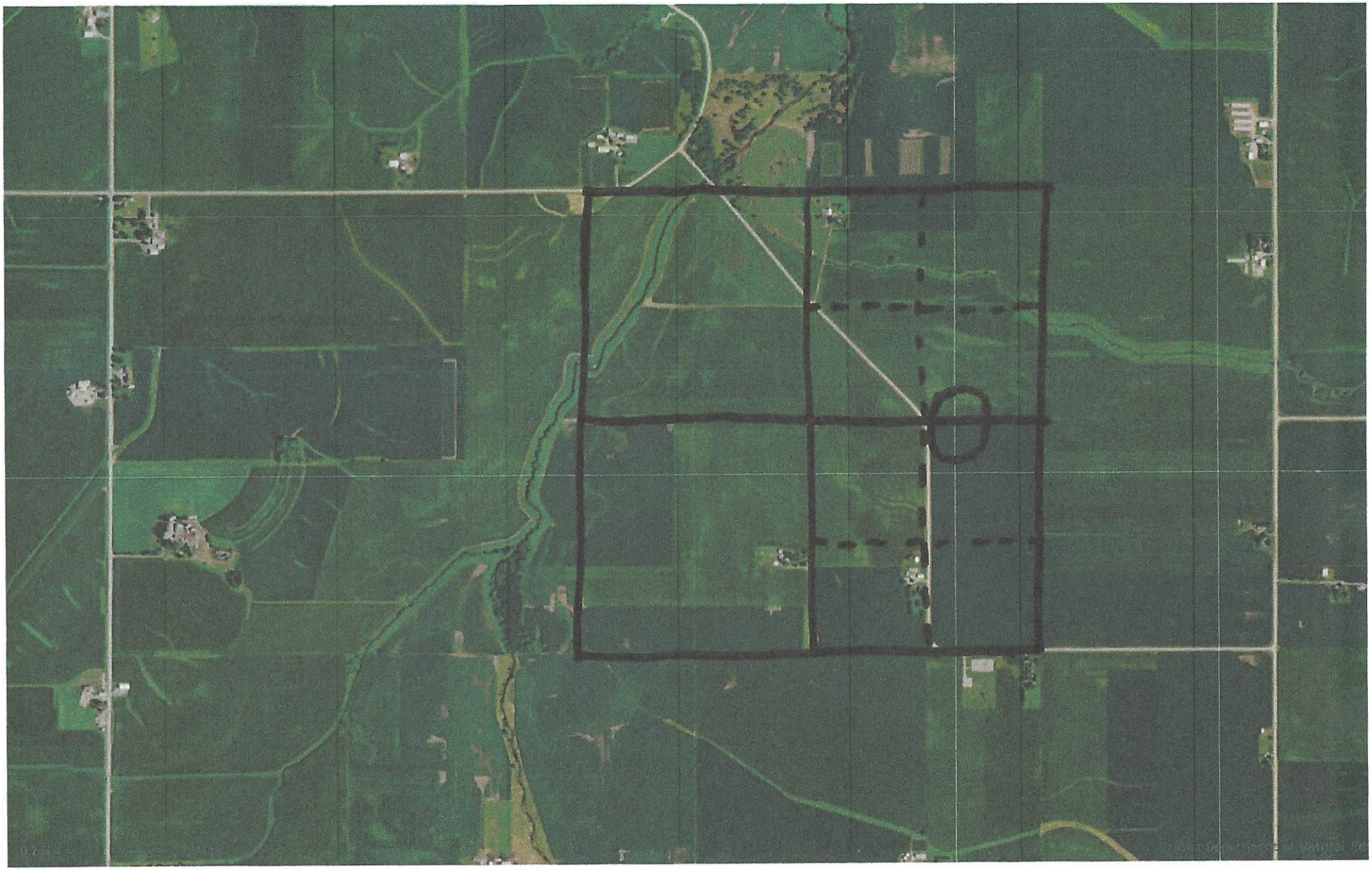

**567 IAC Chapter 65, Appendix D, Figure D-1 "Monolitic footing floor detail"**




**567 IAC Chapter 65, Appendix D, Figure D-2 "Wall and floor construction joint"**

AFO Siting


JT Allens Grove Pork LLC
proposed site



32

UTM Zone 15 NAD83 WGS84
684050.48, 4618711.60 -90.788102, 41.698913

Allens Grove Pork LLC
used site.

# Petition for a Flood Plain Determination or Flood Plain Declaratory Order

For confinement feeding operations using formed storage as required by 567 Iowa Administrative Code (IAC) 65.8(3) "d" and "e" and 65.9(4) "b"

The purpose of this petition is to ask the DNR to determine if the proposed location is on a "one hundred year flood plain", as defined in 567 IAC 65.1. "One hundred year flood plain" means the land adjacent to a major water source, if there is at least a 1 percent chance that the land will be inundated in any one year.

An owner must file a petition for a Flood Plain Determination or a Declaratory Order if both of the following apply:
1) when planning to build, expand or modify a confinement feeding operation that will be using formed storage; and
2) when the proposed location is on alluvial soils or alluvial aquifer as determined by using the AFO Siting Atlas at http://www.iowadnr.gov/Environmental-Protection/Land-Quality/Animal-Feeding-Operations/Mapping/Proper-AFO-Siting.

**1. Calculate animal units by using the total number of head proposed after expansion in the chart below. The total proposed head should include any other confinement within 2,500 feet if the combined AU is greater than 1,000.**

| Animal Type | Confinement Buildings | | |
|---|---|---|---|
| | Total No. Head Proposed after Expansion | x Multiplier | = AUC |
| Cattle (other than mature dairy cows) which includes beef cattle, steers, cow-calf pairs, dairy heifers, veal calves or immature dairy cows | | 1.0 | |
| Mature dairy cows (milked or dry) | | 1.4 | |
| Swine, 55 lbs or more | 4,800 | 0.4 | 1,920 |
| Swine nursery, 15 to 55 lbs | | 0.1 | |
| Sheep and goats, including lambs | | 0.1 | |
| Chicken broilers, 3 lbs or more | | 0.01 | |
| Chicken broilers, less than 3 lbs | | 0.0025 | |
| Chicken layers, 3 lbs or more | | 0.01 | |
| Chicken layers, less than 3 lbs | | 0.0025 | |
| Turkeys, 7 lbs or more | | 0.018 | |
| Turkeys, less than 7 lbs | | 0.0085 | |
| Horses | | 2.0 | |

**2. My facility will have a total of** 1,920 **animal units (both existing and proposed) and so I am requesting a:**
**(Please check 1 box)**

- [x] Flood Plain Determination (greater than 1,000 AU)
- [ ] Flood Plain Declaratory Order (less than 1,000 AU)

**3. Include all of the following information:**

JT Allens Grove Pork, LLC
(Name of the facility)

DNR Animal Feeding Operation Facility # (if known)

S.E. 1/4 1/4 of N.E. 1/4, Section 32, T80N, R02E, Allens Grove, Scott Co
(Legal description of the site: ¼ ¼ Section, Tier, Range, Township Name and County)

(2) 81'2" x 241'4"
(Dimensions of the proposed structure)

Swine, 4,800 Hd., 1,920 AU
(Type of animals, number of head **and** animal units (existing and proposed.))

**4.** [x] **Attach the aerial photo** from the AFO Siting Atlas with the footprint of the proposed structure(s) clearly marked and the alluvial soils layer shown. Show and label all separate manure storage structures or egg wash water storage structures.

AND N.E. 1/4 1/4 of S.E. 1/4, Section 32

**5. List or describe why you think the proposed site is or is not located on the "one hundred year flood plain".**

Never seen water in this area

**6. Indicate whether the owner is currently a party to another proceeding involving the questions at issue and whether, to the owner's knowledge, those questions have been decided by, are pending determination by, or are under investigation by, any governmental entity.**

No

**7. List below the names and addresses of other persons, or a description of any class of persons, known by owner to be affected by, or interested in, the questions presented in the petition.**

None

**8. State whether or not you would like to request a meeting with the DNR Flood Plain Management Program (as provided for by 561 IAC 6.7).**

No, not at this time

**9. Name of Owner or Owner's representative:** Darrin Vittetoe

(by typing or signing your name, you are accepting responsibility for the accuracy of all information provided in this petition.)

**10.** Return Address- this is where responses will be sent:

Custom Builders / Darrin Vittetoe
(Print owner's/representative's name)

563-357-6336
(Owner's/representative's phone number)

209 W. South St.
(Street Address)

darrin@custombuildersiowa.com
(Owner's/representative's email address)

Tipton, Ia. 52772
(City, State, Zip Code)

**11.** Owner's Name and Address (if different from Item 10):

Tom Dittmer
(Print owner's name)

563-320-1542
(Owner's phone number)

12090 240th St.
(Street Address)

tom.dittmer@grandviewfarminc.com
(Owner's email address)

Eldridge, IA. 52748
(City, State, Zip Code)

**Please email the petition to:**

Colleen.Conroy@dnr.iowa.gov

**Or send the petition by mail to:**

Colleen Conroy
Iowa Department of Natural Resources
502 East 9th Street
Des Moines, Iowa 50319-0034

# IOWA MASTER MATRIX SUPPLEMENT

## JT Allens Grove Pork LLC

## March 2018

This document will provide documentation, design information along with operation and maintenance (O&M) plans for items in the Master Matrix where points were gained.

Table 1. Summary table of matrix questions receiving points

| Question # | Description | Actual |
|---|---|---|
| | **Site Separation Distances** | |
| 2 | public use area >2500 ft (Table 6) | 2.4 miles to Cameron Woods |
| 3 | school, church, business >2500ft | 2.3 miles to Plainview |
| 4 | Closest water source > 500ft | 1500 ft to Tributary of Mud Crk. |
| 6 | critical public area | 2.3 miles to Plainview |
| 8 | drainage wells, sinkholes, major water sources | 3900ft to Mud Creek |
| 9 | Other MMP site | 0.85 miles |
| 10 | high quality/protected waters(>5000ft) | 2.7 mi. to Wapsipinicon River |
| 12 | covered manure storage | design / O&M, CDS |
| 17 | formed manure storage structure | design / O&M, CDS |
| 19 | Truck turnaround | Design / O&M, permit |
| 20 | No administrative orders | personal statement |
| 22 | Homestead tax exemption | personal statement |
| 23 | Family Farm Tax Credit qualification | personal statement |
| 24 | Facility Size | 1920 au |
| 25 | Feed and water systems | design / O&M |
| 26 | Manure Injection or incorporation same day | O&M |
| 29 | No Manure Application to HEL land | NRCS maps |
| 31 | Manure App 200ft from public use area (Plainview) | See Permit package |
| 32 | Manure App 200ft from school, church, business. (Plainview) | See Permit package |
| 35 | Manure App 400ft from HQ waters or PWA (Wapsipinicon) | See Permit package |

12. Covered Manure Storage

This facility has deep pits for manure storage which are formed manure storages structures directly beneath a floor where animals are housed in a confinement feeding operation. The design is based upon the attached building drawings and specs from the builder. The structure will be maintained to ensure its structural integrity for its useful life.

17. Formed Manure Storage Structure

The deep pit manure storage is designed to be below floor storage. The concrete design for the structure will adhere to the specs outlined in the building plans to insure the integrity of the structure.

- The storage structure will be measured for manure volume monthly to monitor the amount of manure being produced.
- The volume of manure will be recorded and records maintained on site.
- A visual inspection of the outer above ground perimeter will be made on a semi-annual basis to check for any structural challenges to the storage structure.
- The perimeter tile outside of the storage structure will be monitored monthly over 3 years to determine the average amount of water present.
- The drainage tile outside of the storage structure will be visually checked on a monthly basis to monitor for potential manure contamination by checking color.
- A sample of the water will be taken during the monthly check if the depth is significantly higher than average (1.5 times the average for the month).
- Foreign materials will not be added to the manure storage structure purposefully.
- Durable lids and caution signs will be used to cover the manure pump outs located along the sides of the structure.
- Proper fit and placement of lids will be checked monthly.

19. Proposed confinement site has a suitable truck turnaround area so that semitrailers do not have to back into the facility from the road. The truck turnaround will be a drive wide enough for semis to drive in off the road and will be able to pull through on a new drive to be constructed to connect the individual barn driveways.

    a. When there has been significant snowfall, the snow will be removed from the drive and turnaround to allow for safe entrance and exit of trucks.
    b. The structure of the turnaround will be maintained with aggregate 2" to 5" thick.

20. I have no history of Administrative Orders in the last five years related to environmental and worker protection.

22. Applicant is the closest residence to proposed site.

23. I can lawfully claim a Family Farm Tax Credit for agricultural land where the proposed confinement operation is to be located pursuant to Iowa Code chapter 425A.

24. The total number of swine housed on site will be 4800 head which equals 1920 animal units. [4800 hd * 0.4 conversion factor = 1920 AU]

25. Feed and Water Systems
The feed and water systems to be used in this facility are intended to reduce feed and water wastage which could impact the manure storage. The feeders are dry feeders and the waterers are cup waterers.

- Feeders and waterers will be checked daily for proper operation.
- If the feeder or waterer is not in proper operation and is causing wasted feed or water it will be addressed appropriately by repair or adjustment.
- Measurement of manure volume in the storage pit will be used to track if there is an irregular amount of waste occurring.

26. Manure application by injection or incorporation on the same date it is land applied. Manure will be injected or incorporated on the same date.

I believe the statements here to be true and agree to adhere to the specifications.

Tom Dittmer Mgr 3-2-18

JT Allens Grove Pork LLC Date
Tom Dittmer, Manager

**Daily Checks**

Feeders: _____ Checked and working appropriately
_____ Checked and adjustments made

Waterers: _____ Checked and working appropriately
_____ Checked and adjustments made

**Monthly Checks**

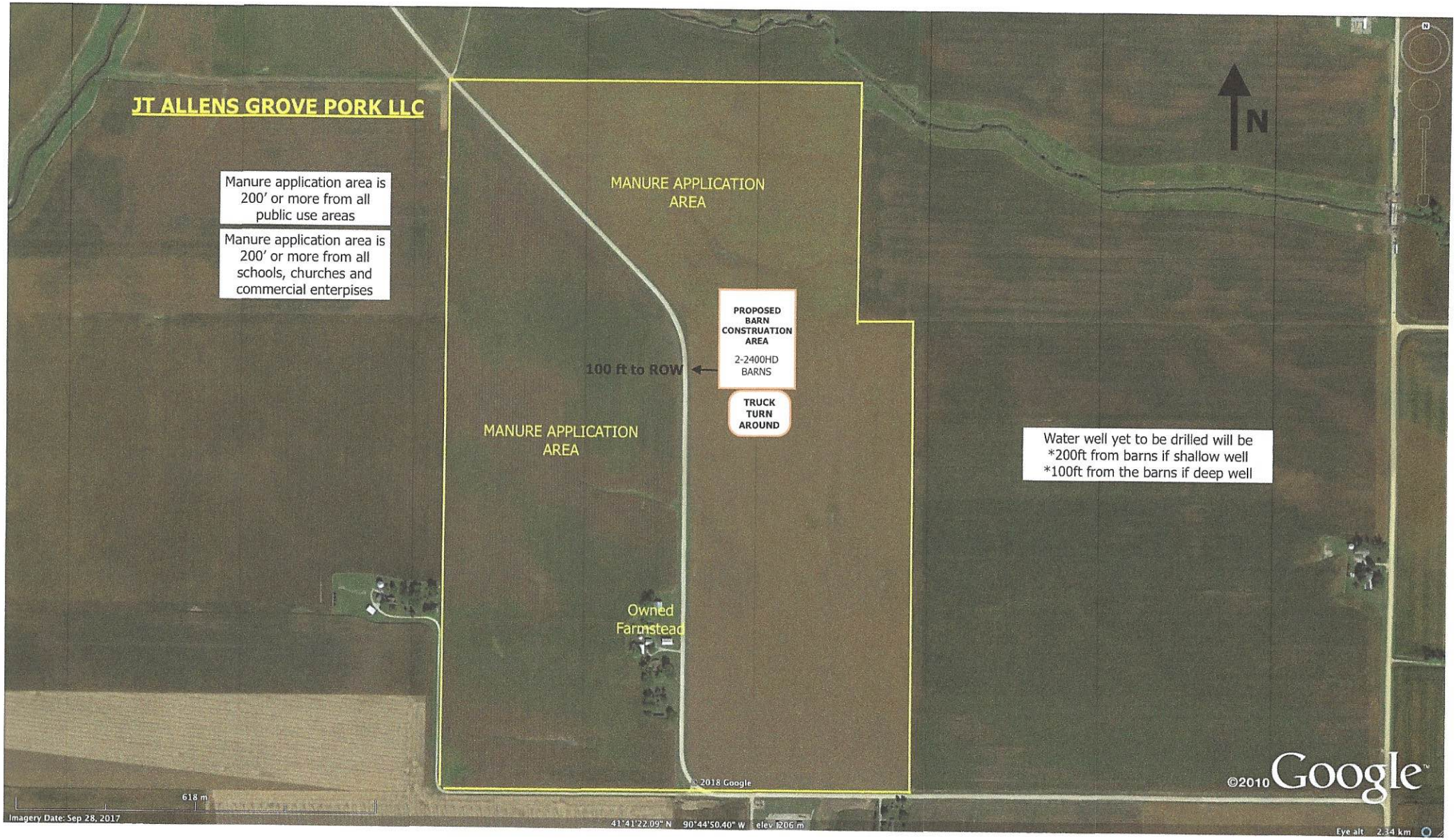
Date _____
Manure Depth _____
Drain Tile: Is water present? YES or NO
Approximate depth? _____ inches
Pumpout lids: Condition? GOOD FAIR NEEDS ATTENTION

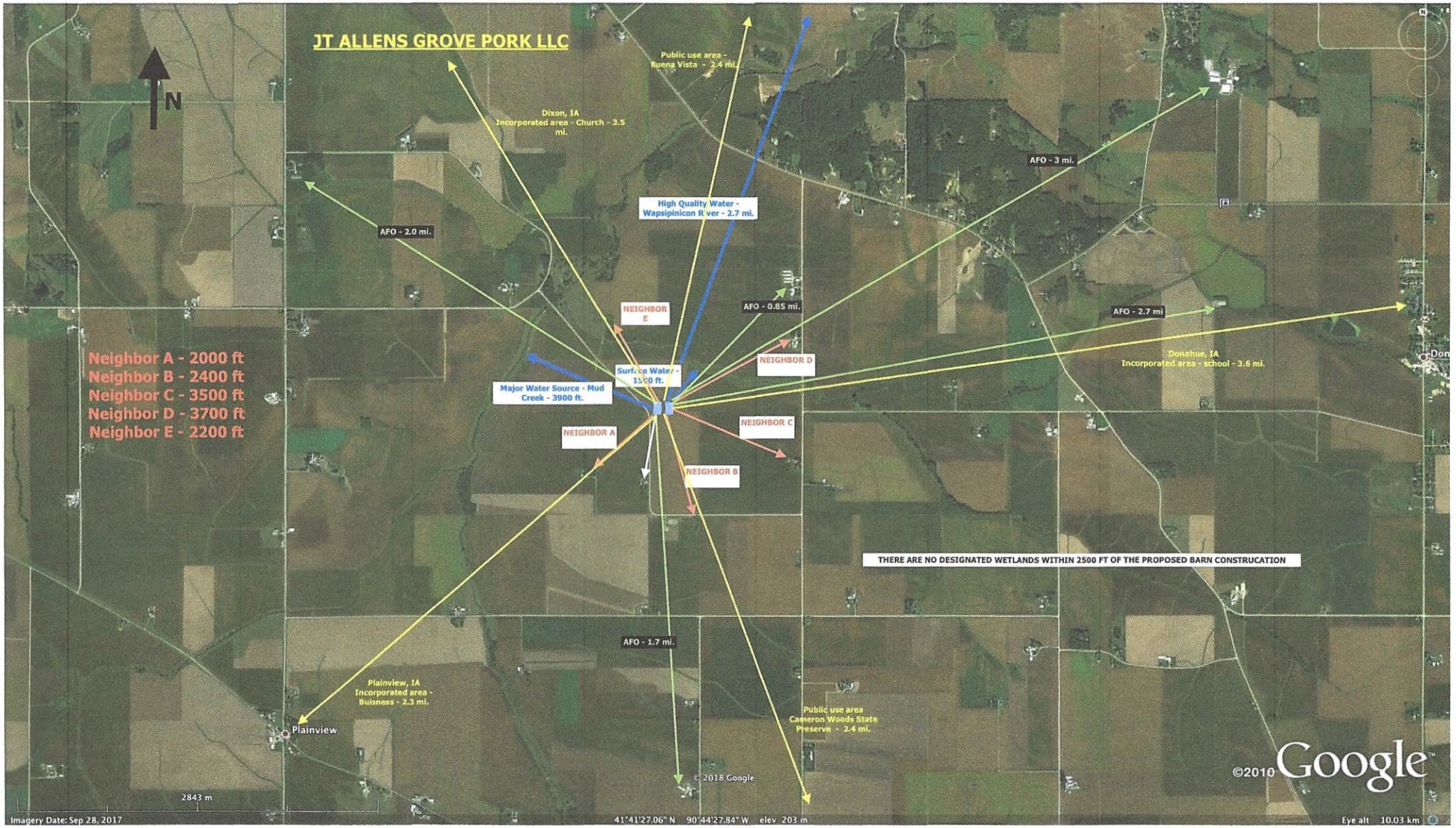
**Semi-annual Check**

The outer above ground perimeter of manure storage:

_____ Normal as built
_____ Normal aging no problems
_____ Evidence of potential problems**
_____ Manure leakage**

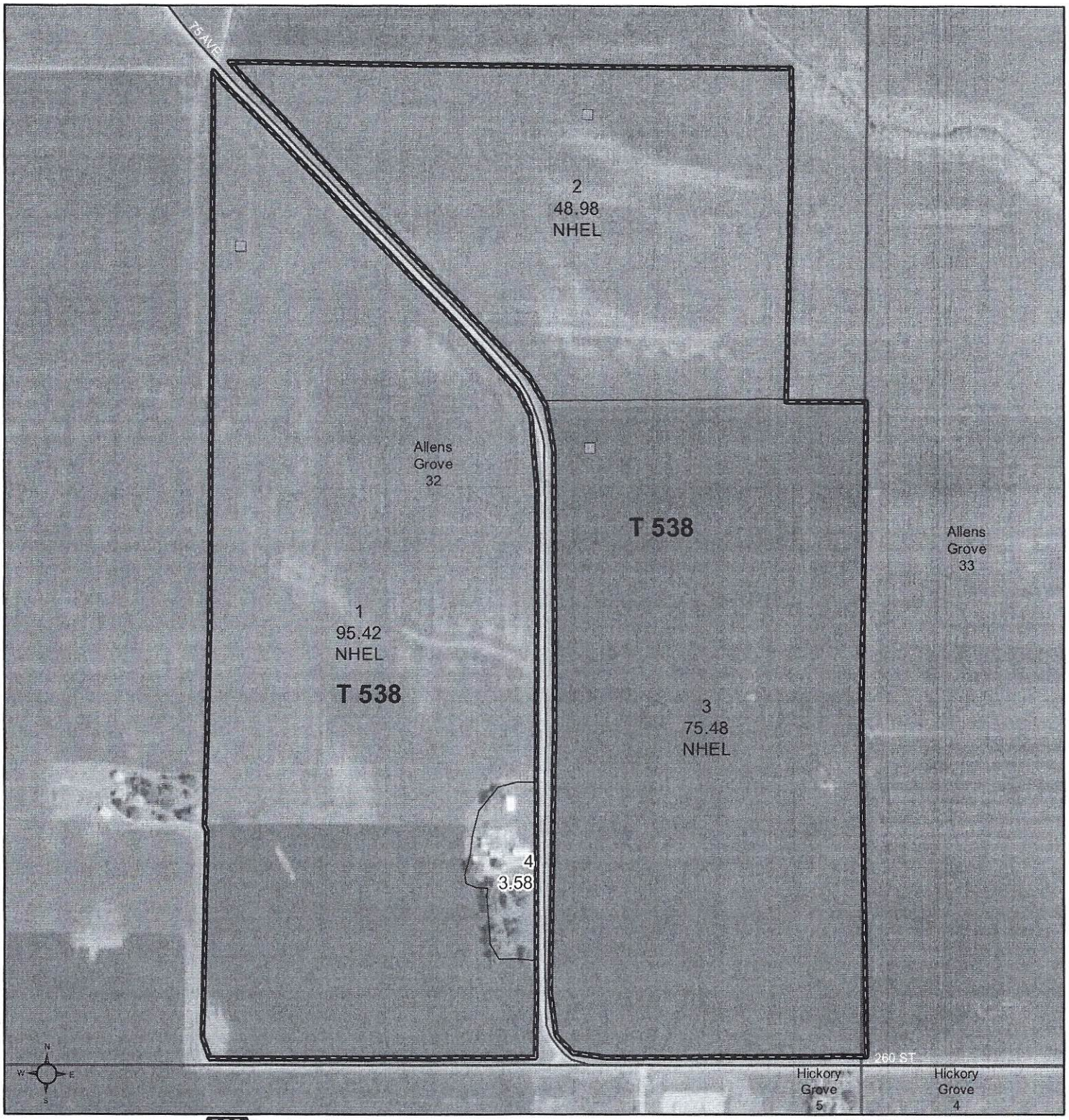
**If either of these situations should occur, an engineer will be contacted to inspect for potential structural integrity issues. If there is evidence of manure leakage, DNR will be contacted.


JT ALLENS GROVE PORK LLC
Manure application area is 200' or more from all public use areas
Manure application area is 200' or more from all schools, churches and commercial enterpises
MANURE APPLICATION AREA
PROPOSED BARN CONSTRUATION AREA
2-2400HD BARNS
100 ft to ROW
TRUCK TURN AROUND
MANURE APPLICATION AREA
Water well yet to be drilled will be
*200ft from barns if shallow well
*100ft from the barns if deep well
Owned Farmstead
N
© 2018 Google
©2010 Google
618 m
Imagery Date: Sep 28, 2017
41°41'22.09" N 90°44'50.40" W elev 1206 m
Eye alt 2.34 km


JT ALLENS GROVE PORK LLC
N
Public use area - Buena Vista - 2.4 mi.
Dixon, IA Incorporated area - Church - 3.5 mi.
AFO - 3 mi.
High Quality Water - Wapsipinicon River - 2.7 mi.
AFO - 2.0 mi.
NEIGHBOR E
AFO - 0.85 mi.
AFO - 2.7 mi
Donahue, IA Incorporated area - school - 3.6 mi.
NEIGHBOR D
Surface Water - 1500 ft.
Major Water Source - Mud Creek - 3900 ft.
NEIGHBOR C
NEIGHBOR A
NEIGHBOR B
Neighbor A - 2000 ft
Neighbor B - 2400 ft
Neighbor C - 3500 ft
Neighbor D - 3700 ft
Neighbor E - 2200 ft
THERE ARE NO DESIGNATED WETLANDS WITHIN 2500 FT OF THE PROPOSED BARN CONSTRUCATION
AFO - 1.7 mi.
Plainview, IA Incorporated area - Buisness - 2.3 mi.
Plainview
Public use area Cameron Woods State Preserve - 2.4 mi.
© 2018 Google
2843 m
©2010 Google
Imagery Date: Sep 28, 2017
41°41'27.06" N 90°44'27.84" W elev 203 m
Eye alt 10.03 km

USDA United States Department of Agriculture

# Scott County, Iowa




**Common Land Unit**

- Non-Cropland
- Cropland

Tract Boundary
PLSS

**Wetland Determination Identifiers**

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

0 230 460 920 Feet

2015 Ortho Imagery

2017 Program Year

Map Created December 01, 2016

Farm **54**

Tract **538**

Tract Cropland Total: 219.88 acres

JT ALLENS GROVE PORK LLC

# APPENDIX C MASTER MATRIX

**Proposed Site Characteristics**

**The following scoring criteria apply to the site of the proposed confinement feeding operation. Mark one score under each criterion selected by the applicant. The proposed site must obtain a minimum overall score of 440 and a score of 53.38 in the "air" subcategory, a score of 67.75 in the "water" subcategory and a score of 101.13 in the "community impacts" subcategory.**

X **1.** Additional separation distance, above minimum requirements, from proposed confinement structure to the closest:

* Residence not owned by the owner of the confinement feeding operation,
* Hospital,
* Nursing home, or
* Licensed or registered child care facility.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| 250 feet to 500 feet | 25 | 16.25 | | 8.75 |
| 501 feet to 750 feet | 45 | 29.25 | | 17.50 |
| 751 feet to 1,000 feet | 65 | 42.25 | | 22.75 |
| 1,001 feet to 1,250 feet | 85 | 55.25 | | 29.75 |
| 1,251 feet or more | 100 | 65.00 | | 35.00 |

(A) Refer to the construction permit application package to determine the animal unit capacity (or animal weight capacity if an expansion) of the proposed confinement feeding operation. Then refer to Table 6 of 567--Chapter 65 to determine minimum required separation distances.
(B) The department will award points only for the single building, of the four listed above, closest to the proposed confinement feeding operation.
(C) "Licensed child care center" – a facility licensed by the department of human services providing child care or preschool services for seven or more children, except when the facility is registered as a child care home.
(D) "Registered child development homes" - child care providers certify that they comply with rules adopted by the department of human services. This process is voluntary for providers caring for five or fewer children and mandatory for providers caring for six or more children.
(E) A full listing of licensed and registered child care facilities is available at county offices of the department of human services.

**2.** Additional separation distance, above minimum requirements, from proposed confinement structure to the closest public use area.

***Buena Vista or Cameron Woods State Preserve - 2.4 miles***

| | Score | Air | Water | Community |
|---|---|---|---|---|
| 250 feet to 500 feet | 5 | 2.00 | | 3.00 |
| 501 feet to 750 feet | 10 | 4.00 | | 6.00 |
| 751 feet to 1,000 feet | 15 | 6.00 | | 9.00 |
| 1,001 feet to 1,250 feet | 20 | 8.00 | | 12.00 |
| 1,251 feet to 1,500 | 25 | 10.00 | | 15.00 |
| 1,501 feet or more | 30 | 12.00 | | 18.00 |

(A) Refer to the construction permit application package to determine the animal unit capacity (or animal weight capacity if an expansion) of the proposed confinement feeding operation. Then refer to Table 6 of 567--Chapter 65 to determine minimum required separation distances.
(B) "Public use area" - a portion of land owned by the United States, the state, or a political subdivision with facilities which attract the public to congregate and remain in the area for significant periods of time. Facilities include, but are not limited to, picnic grounds, campgrounds, cemeteries, lodges, shelter houses, playground equipment, lakes as listed in Table 2 of 567--Chapter 65, and swimming beaches. It does not include a highway, road right-of-way, parking areas, recreational trails or other areas where the public passes through, but does not congregate or remain in the area for significant periods of time.

**3.** Additional separation distance, above minimum requirements, from proposed confinement structure to the closest:

* Educational institution,
* Religious institution, or
* Commercial enterprise.

***Plainview - 2.3 miles***

| | Score | Air | Water | Community |
|---|---|---|---|---|
| 250 feet to 500 feet | 5 | 2.00 | | 3.00 |

| | | | | |
|---|---|---|---|---|
| 501 feet to 750 feet | 10 | 4.00 | | 6.00 |
| 751 feet to 1,000 feet | 15 | 6.00 | | 9.00 |
| 1,001 feet to 1,250 feet | 20 | 8.00 | | 12.00 |
| 1,251 feet to 1,500 | 25 | 10.00 | | 15.00 |
| 1,501 feet or more | 30 | 12.00 | | 18.00 |

(A) Refer to the construction permit application package to determine the animal unit capacity (or animal weight capacity if an expansion) of the proposed confinement feeding operation. Then refer to Table 6 of 567--Chapter 65 to determine minimum required separation distances.
(B) The department will award points only for the single building, of the three listed above, closest to the proposed confinement feeding operation.
(C) "Educational institution" - a building in which an organized course of study or training is offered to students enrolled in kindergarten through grade 12 and served by local school districts, accredited or approved nonpublic schools, area educational agencies, community colleges, institutions of higher education under the control of the state board of regents, and accredited independent colleges and universities.
(D) "Religious institution" - a building in which an active congregation is devoted to worship.
(E) "Commercial enterprise" - a building which is used as a part of a business that manufactures goods, delivers services, or sells goods or services, which is customarily and regularly used by the general public during the entire calendar year and which is connected to electric, water, and sewer systems. A commercial enterprise does not include a farm operation.

4. Additional separation distance, above minimum requirement of 500 feet, from proposed confinement structure to the closest water source. ***Tributary of Mud Creek***

| | Score | Air | Water | Community |
|---|---|---|---|---|
| 250 feet to 500 feet | 5 | | 5.00 | |
| 501 feet to 750 feet | 10 | | 10.00 | |
| 751 feet to 1,000 feet | 15 | | 15.00 | |
| 1,001 feet to 1,250 feet | 20 | | 20.00 | |
| 1,251 feet to 1,500 | 25 | | 25.00 | |
| 1,501 feet or more | 30 | | 30.00 | |

"Water source" - a lake, river, reservoir, creek, stream, ditch, or other body of water or channel having definite banks and a bed with water flow, except lakes or ponds without an outlet to which only one landowner is riparian.

X 5. Separation distance of 300 feet or more from the proposed confinement structure to the nearest thoroughfare.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| 300 feet or more | 30 | 9.00 | | 21.00 |

(A) "Thoroughfare" - a road, street, bridge, or highway open to the public and constructed or maintained by the state or a political subdivision.
(B) The 300-foot distance includes the 100-foot minimum setback plus additional 200 feet.

6. Additional separation distance, above minimum requirements, from proposed confinement structure to the closest critical public area. ***Plainview***

| | Score | Air | Water | Community |
|---|---|---|---|---|
| 500 feet or more | 10 | 4.00 | | 6.00 |

(A) All critical public areas as defined in 567--65.1(455B), are public use areas, and therefore subject to public use area minimum separation distances.
(B) Refer to the construction permit application package to determine the animal unit capacity (or animal weight capacity if an expansion) of the proposed confinement feeding operation. Then refer to Table 6 of 567--Chapter 65 to determine minimum required separation distances.

X 7. Proposed confinement structure is at least two times the minimum required separation distance from all private and public water wells.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Two times the minimum separation distance | 30 | | 24.00 | 6.00 |

Refer to Table 6 of 567--Chapter 65 for minimum required separation distances to wells.

8. Additional separation distance, above the minimum requirement of 1,000 feet, from proposed confinement structure to the closest:

* Agricultural drainage well,
* Known sinkhole, or
* Major water source.

**MUD CREEK - MAJOR RIVER**
**~3900FT**

| | Score | Air | Water | Community |
|---|---|---|---|---|
| 250 feet to 500 feet | 5 | 0.50 | 2.50 | 2.00 |
| 501 feet to 750 feet | 10 | 1.00 | 5.00 | 4.00 |
| 751 feet to 1,000 feet | 15 | 1.50 | 7.50 | 6.00 |
| 1,001 feet to 1,250 feet | 20 | 2.00 | 10.00 | 8.00 |
| 1,251 feet to 1,500 feet | 25 | 2.50 | 12.50 | 10.00 |
| 1,501 feet to 1,750 feet | 30 | 3.00 | 15.00 | 12.00 |
| 1,751 feet to 2,000 feet | 35 | 3.50 | 17.50 | 14.00 |
| 2,001 feet to 2,250 feet | 40 | 4.00 | 20.00 | 16.00 |
| 2,251 feet to 2,500 feet | 45 | 4.50 | 22.50 | 18.00 |
| 2,501 feet or more | 50 | 5.00 | 25.00 | 20.00 |

(A) The department will award points only for the single item, of the three listed above, that is closest to the proposed confinement feeding operation.
(B) "Agricultural drainage wells" - include surface intakes, cisterns and wellheads of agricultural drainage wells.
(C) "Major water source" - a lake, reservoir, river or stream located within the territorial limits of the state, or any marginal river area adjacent to the state which can support a floating vessel capable of carrying one or more persons during a total of a six-month period in one out of ten years, excluding periods of flooding. Major water sources in the state are listed in Tables 1 and 2 in 567--Chapter 65.

**9.** Distance between the proposed confinement structure and the nearest confinement facility that has a submitted department manure management plan.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Three-quarter of a mile or more (3,960 feet) | 25 | 7.50 | 7.50 | 10.00 |

Confinement facilities include swine, poultry, and dairy and beef cattle.

**10.** Separation distance from proposed confinement structure to closest:
* High quality (HQ) waters,
* High quality resource (HQR) waters, or
* Protected water areas (PWA)

is at least two times the minimum required separation distance

**WAPSIPINICON RIVER- HQW ~ 2.7MILES**

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Two times the minimum separation distance | 30 | | 22.50 | 7.50 |

(A) The department will award points only for the single item, of the three listed above, closest to the proposed confinement feeding operation.
(B) HQ waters are identified in 567--Chapter 61.
(C) HQR waters are identified in 567--Chapter 61.
(D) A listing of PWAs is available at:
http://www.iowadnr.gov/Recreation/CanoeingKayaking/StreamCare/ProtectedWaterAreas.aspx

X **11.** Air quality modeling results demonstrating an annoyance level less than 2 percent of the time for residences within two times the minimum separation distance.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| University of Minnesota OFFSET model results demonstrating an annoyance level less than 2 percent of the time | 10 | 6.00 | | 4.00e |

(A) OFFSET can be found at http://www.extension.umn.edu/agriculture/manure-management-and-air-quality/feedlots-and-manure-storage/offset-odor-from-feedlots/. For more information, contact Dr. Larry Jacobson, University of Minnesota, (612) 625-8288, jacob007@tc.umn.edu.
(B) A residence that has a signed waiver for the minimum separation distance cannot be included in the model.
(C) Only the OFFSET model is acceptable until the department recognizes other air quality models.

**12.** Liquid manure storage structure is covered.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Covered liquid manure storage | 30 | 27.00 | | 3.00 |

(A) "Covered" - organic or inorganic material, placed upon an animal feeding operation structure used to store manure, which significantly reduces the exchange of gases between the stored manure and the outside air.

Organic materials include, but are not limited to, a layer of chopped straw, other crop residue, or a naturally occurring crust on the surface of the stored manure. Inorganic materials include, but are not limited to, wood, steel, aluminum, rubber, plastic, or Styrofoam. The materials shall shield at least 90 percent of the surface area of the stored manure from the outside air. Cover shall include an organic or inorganic material which current scientific research shows reduces detectable odor by at least 75 percent. A formed manure storage structure directly beneath a floor where animals are housed in a confinement feeding operation is deemed to be covered.

(B) The design, operation and maintenance plan for the manure cover must be in the construction permit application and made a condition in the approved construction permit.

X **13.** Construction permit application contains design, construction, operation and maintenance plan for emergency containment area at manure storage structure pump-out area.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Emergency containment area | 20 | | 18.00 | 2.00 |

(A) The emergency containment area must be able to contain at least 5 percent of the total volume capacity of the manure storage structure.

(B) The emergency containment area must be constructed on soils that are fine-grained and have low permeability.

(C) If manure is spilled into the emergency containment area, the spill must be reported to the department within six hours of onset or discovery.

(D) The design, construction, operation and maintenance plan for the emergency containment area must be in the construction permit application and made a condition in the approved construction permit.

X **14.** Installation of a filter(s) designed to reduce odors from confinement building(s) exhaust fan(s).

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Installation of filter(s) | 10 | 8.00 | | 2.00 |

The design, operation and maintenance plan for the filter(s) must be in the construction permit application and made a condition in the approved construction permit.

X **15.** Utilization of landscaping around confinement structure.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Utilization of Landscaping | 20 | 10.00 | | 10.00 |

The design, operation and maintenance plan for the landscaping must be in the construction permit application and made a condition in the approved construction permit. The design should contain at least three rows of trees and shrubs, of both fast and slow-growing species that are well suited for the site.

X **16.** Enhancement, above minimum requirements, of structures used in stockpiling and composting activities, such as an impermeable pad and a roof or cover.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Stockpile and compost facility enhancements | 30 | 9.00 | 18.00 | 3.00 |

(A) The design, operation and maintenance plan for the stockpile or compost structure enhancements must be in the construction permit application and made a condition in the approved construction permit.

(B) The stockpile or compost structures must be located on land adjacent or contiguous to the confinement building.

**17.** Proposed manure storage structure is formed

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Formed manure storage structure | 30 | | 27.00 | 3.00 |

(A) "Formed manure storage structure" -a covered or uncovered impoundment used to store manure from an animal feeding operation, which has walls and a floor constructed of concrete, concrete block, wood, steel, or similar materials. Similar materials may include, but are not limited to, plastic, rubber, fiberglass, or other synthetic materials. Materials used in a formed manure storage structure shall have the structural integrity to withstand expected internal and external load pressures.

(B) The design, operation and maintenance plan for the formed manure storage structure must be in the construction permit application and made a condition in the approved construction permit.

X **18.** Manure storage structure is aerated to meet departmental standards as an aerobic structure, if aeration is not already required by the department.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Aerated manure storage structure | 10 | 8.00 | | 2.00 |

(A) Aerobic structure - an animal feeding operation structure other than an egg wash water storage structure which relies on aerobic bacterial action which is maintained by the utilization of air or oxygen and which includes

aeration equipment to digest organic matter. Aeration equipment shall be used and shall be capable of providing oxygen at a rate sufficient to maintain an average of 2 milligrams per liter dissolved oxygen concentration in the upper 30 percent of the depth of manure in the structure at all times.

(B) The design, operation and maintenance plan for the aeration equipment must be in the construction permit application and made a condition in the approved construction permit.

**19.** Proposed confinement site has a suitable truck turnaround area so that semitrailers do not have to back into the facility from the road

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Truck turnaround | 20 | | | 20.00 |

(A) The design, operation and maintenance plan for the truck turn around area must be in the construction permit application and made a condition in the approved construction permit.

(B) The turnaround area should be at least 120 feet in diameter and be adequately surfaced for traffic in inclement weather.

**20.** Construction permit applicant's animal feeding operation environmental and worker protection violation history for the last five years at all facilities in which the applicant has an interest.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| No history of Administrative Orders in last five years | 30 | | | 30.00 |

(A) "Interest" - means ownership of a confinement feeding operation as a sole proprietor or a 10 percent or more ownership interest held by a person in a confinement feeding operation as a joint tenant, tenant in common, shareholder, partner, member, beneficiary or other equity interest holder. Ownership interest is an interest when it is held either directly, indirectly through a spouse or dependent child, or both.

(B) An environmental violation is a final Administrative Order (AO) from the department of natural resources or final court ruling against the construction permit applicant for environmental violations related to an animal feeding operation. A Notice of Violation (NOV) does not constitute a violation.

X **21.** Construction permit applicant waives the right to claim a Pollution Control Tax Exemption for the life of the proposed confinement feeding operation structure.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Permanent waiver of Pollution Control Tax Exemption | 5 | | | 5.00 |

(A) Waiver of Pollution Control Tax Exemption is limited to the proposed structure(s) in the construction permit application.

(B) The department and county assessor will maintain a record of this waiver, and it must be in the construction permit application and made a condition in the approved construction permit.

**22.** Construction permit applicant can lawfully claim a Homestead Tax Exemption on the site where the proposed confinement structure is to be constructed
- OR -
the construction permit applicant is the closest resident to the proposed confinement structure.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Site qualifies for Homestead Tax Exemption or permit applicant is closest resident to proposed structure | 25 | | | 25.00 |

(A) Proof of Homestead Tax Exemption is required as part of the construction permit application.

(B) Applicant includes persons who have ownership interests. "Interest" - means ownership of a confinement feeding operation as a sole proprietor or a 10 percent or more ownership interest held by a person in a confinement feeding operation as a joint tenant, tenant in common, shareholder, partner, member, beneficiary or other equity interest holder. Ownership interest is an interest when it is held either directly, indirectly through a spouse or dependent child, or both.

**23.** Construction permit applicant can lawfully claim a Family Farm Tax Credit for agricultural land where the proposed confinement feeding operation is to be located pursuant to Iowa Code chapter 425A.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Family Farm Tax Credit qualification | 25 | | | 25.00 |

Applicant includes persons who have ownership interests. "Interest" - means ownership of a confinement feeding operation as a sole proprietor or a 10 percent or more ownership interest held by a person in a confinement feeding operation as a joint tenant, tenant in common, shareholder, partner, member, beneficiary or other equity interest holder. Ownership interest is an interest when it is held either directly, indirectly through a spouse or dependent child, or both.

**24.** Facility size.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| 1 to 2,000 animal unit capacity | 20 | | | 20.00 |
| 2,001 to 3,000 animal unit capacity | 10 | | | 10.00 |
| 3,001 animal unit capacity or more | 0 | | | 0.00 |

(A) Refer to the construction permit application package to determine the animal unit capacity of the proposed confinement structure at the completion of construction.
(B) If the proposed structure is part of an expansion, animal unit capacity (or animal weight capacity) must include all animals confined in adjacent confinement structures.
(C) Two or more animal feeding operations under common ownership or management are deemed to be a single animal feeding operation if they are adjacent or utilize a common area or system for manure disposal. In addition, for purposes of determining whether two or more confinement feeding operations are adjacent, all of the following must apply:
  (a) At least one confinement feeding operation structure must be constructed on and after May 21, 1998.
  (b) A confinement feeding operation structure which is part of one confinement feeding operation is separated by less than a minimum required distance from a confinement feeding operation structure which is part of the other confinement feeding operation. The minimum required distance shall be as follows:
    (1) 1,250 feet for confinement feeding operations having a combined animal unit capacity of less than 1,000 animal units.
    (2) 2,500 feet for confinement feeding operations having a combined animal unit capacity of 1,000 animal units or more.

**25.** Construction permit application includes livestock feeding and watering systems that significantly reduce manure volume.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Wet/dry feeders or other feeding and watering systems that significantly reduce manure volume | 25 | | 12.50 | 12.50 |

The design, operation and maintenance plan for the feeding system must be in the construction permit application and made a condition in the approved construction permit.

## Proposed Site Operation and Manure Management Practices

**The following scoring criteria apply to the operation and manure management characteristics of the proposed confinement feeding operation. Mark <u>one</u> score under each criterion that best reflects the characteristics of the submitted manure management plan.**

**26.** Liquid or dry manure (choose only one subsection from subsections "a" - "e" and mark one score in that subsection).

| | | Score | Air | Water | Community |
|---|---|---|---|---|---|
| a. | Bulk dry manure is sold under Iowa Code Chapter 200A and surface-applied | 15 | | 15.00 | |
| | Bulk dry manure is sold under Iowa Code Chapter 200A and incorporated on the same date it is land-applied | 30 | 12.00 | 12.00 | 6.00 |
| b. | Dry manure is composted and land-applied under the requirements of an approved department manure management plan | 10 | 4.00 | 4.00 | 2.00 |
| | Dry manure is composted and sold so that no manure is applied under the requirements of an approved department manure management plan | 30 | 12.00 | 12.00 | 6.00 |
| c. | Methane digester is used to generate energy from manure and remaining manure is surface-applied under the requirements of an approved department manure management plan | 10 | 3.00 | 3.00 | 4.00 |
| | After methane digestion is complete, manure is injected or incorporated on the same date it is land-applied under the requirements of an approved department manure management plan | 30 | 12.00 | 12.00 | 6.00 |
| d. | Dry manure is completely burned to generate energy and no | 30 | 9.00 | 9.00 | 12.00 |

| | | | | | |
|---|---|---|---|---|---|
| | remaining manure is applied under the requirements of an approved department manure management plan | | | | |
| | Some dry manure is burned to generate energy, but remaining manure is land-applied and incorporated on the same date it is land applied | 30 | 12.00 | 12.00 | 6.00 |
| e. | Injection or incorporation of manure on the same date it is land-applied | 30 | 12.00 | 12.00 | 6.00 |

(A) Choose only ONE line from subsection "a", "b," "c," "d," or "e" above and mark only one score in that subsection.
(B) The injection or incorporation of manure must be in the construction permit application and made a condition in the approved construction permit.
(C) If an emergency arises and injection or incorporation is not feasible, prior to land application of manure the applicant must receive a written approval for an emergency waiver from a department field office to surface-apply manure.
(D) Requirements pertaining to the sale of bulk dry manure under pursuant to Iowa Code chapter 200A must be incorporated into the construction permit application and made a condition of the approved construction permit.
(E) The design, operation and maintenance plan for utilization of manure as an energy source must be in the construction permit application and made a condition in the approved construction permit.
(F) The design, operation and maintenance plan for composting facilities must be in the construction permit application and made a condition in the approved construction permit.

X **27.** Land application of manure is based on a two-year crop rotation phosphorus uptake level.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Two-year phosphorus crop uptake application rate | 10 | | 10.00 | |

(A) Land application of manure cannot exceed phosphorus crop usage levels for a two-year crop rotation cycle.
(B) The phosphorus uptake application rates must be in the construction permit application and made a condition in the approved construction permit.

X **28.** Land application of manure to farmland that has USDA Natural Resources Conservation Service (NRCS) approved buffer strips contiguous to all water sources traversing or adjacent to the fields listed in the manure management plan.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Manure application on farmland with buffer strips | 10 | | 8.00 | 2.00 |

(A) The department may request NRCS maintenance agreements to ensure proper design, installation and maintenance of filter strips. If a filter strip is present but not designed by NRCS, it must meet NRCS standard specifications.
(B) The application field does not need to be owned by the confinement facility owner to receive points.
(C) On current and future manure management plans, the requirement for buffer strips on all land application areas must be in the construction permit application and made a condition in the approved construction permit.

**29.** Land application of manure does not occur on highly erodible land (HEL), as classified by the USDA NRCS.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| No manure application on HEL farmland | 10 | | 10.00 | |

Manure application on non-HEL farmland must be in the construction permit application and made a condition in the approved construction permit.

X **30.** Additional separation distance, above minimum requirements (0 or 750 feet, see below), for the land application of manure to the closest:

* Residence not owned by the owner of the confinement feeding operation,
* Hospital,
* Nursing home, or
* Licensed or registered child care facility.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Additional separation distance of 200 feet | 5 | 3.25 | | 1.75 |
| Additional separation distance of 500 feet | 10 | 6.50 | | 3.50 |

(A) The department will award points only for the single building, of the four listed above, closest to the proposed confinement feeding operation.
(B) Minimum separation distance for land application of manure injected or incorporated on the same date as application: 0 feet.

(C) Minimum separation distance for land application of manure broadcast on soil surface: 750 feet.
(D) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.
(E) "Licensed child care center" – a facility licensed by the department of human services providing child care or preschool services for seven or more children, except when the facility is registered as a child care home.
(F) "Registered child development homes" - child care providers certify that they comply with rules adopted by the department of human services. This process is voluntary for providers caring for five or fewer children and mandatory for providers caring for six or more children.
(G) A full listing of licensed and registered child care facilities is available at county offices of the Department of Human Services

**31.** Additional separation distance, above minimum requirements (0 or 750 feet, see below), for land application of manure to closest public use area.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Additional separation distance of 200 feet | 5 | 2.00 | | 3.00 |

(A) "Public use area" - a portion of land owned by the United States, the state, or a political subdivision with facilities which attract the public to congregate and remain in the area for significant periods of time. Facilities include, but are not limited to, picnic grounds, campgrounds, cemeteries, lodges, shelter houses, playground equipment, lakes as listed in Table 2 in 567--Chapter 65, and swimming beaches. It does not include a highway, road right-of-way, parking areas, recreational trails or other areas where the public passes through, but does not congregate or remain in the area for significant periods of time.
(B) Minimum separation distance for land application of manure injected or incorporated on the same date as application: 0 feet.
(C) Minimum separation distance for land application of manure broadcast on soil surface: 750 feet.
(D) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.

**32.** Additional separation distance, above minimum requirements (0 or 750 feet, see below), for the land application of manure to the closest:

* Educational institution,
* Religious institution, or
* Commercial enterprise.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Additional separation distance of 200 feet | 5 | 2.00 | | 3.00 |

(A) Minimum separation distance for land application of manure broadcast on soil surface: 750 feet.
(B) Minimum separation distance for land application of manure injected or incorporated on same date as application: 0 feet.
(C) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.
(D) "Educational institution" - a building in which an organized course of study or training is offered to students enrolled in kindergarten through grade 12 and served by local school districts, accredited or approved nonpublic schools, area educational agencies, community colleges, institutions of higher education under the control of the state board of regents, and accredited independent colleges and universities.
(E) "Religious institution" - a building in which an active congregation is devoted to worship.
(F) "Commercial enterprise" - a building which is used as a part of a business that manufactures goods, delivers services, or sells goods or services, which is customarily and regularly used by the general public during the entire calendar year and which is connected to electric, water, and sewer systems. A commercial enterprise does not include a farm operation.

X **33.** Additional separation distance of 50 feet, above minimum requirements (0 or 200 feet, see below), for the land application of manure to the closest private drinking water well or public drinking water well - OR well is properly closed under supervision of county health officials.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Additional separation distance of 50 feet or well is properly closed | 10 | | 8.00 | 2.00 |

(A) Minimum separation distance for land application of manure injected or incorporated on the same date as application or 50-foot vegetation buffer exists around well and manure is not applied to the buffer: 0 feet.
(B) Minimum separation distance for land application of manure broadcast on soil surface: 200 feet.
(C) If applicant chooses to close the well; the well closure must be incorporated into the construction permit application and made a condition in the approved construction permit.

X **34.** Additional separation distance, above minimum requirements, for the land application of manure to the closest:
* Agricultural drainage well,
* Known sinkhole,
* Major water source, or
* Water source

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Additional separation distance of 200 feet | 5 | 0.50 | 2.50 | 2.00 |
| Additional separation distance of 400 feet | 10 | 1.00 | 5.00 | 4.00 |

(A) "Agricultural drainage wells" - include surface intakes, cisterns and wellheads of agricultural drainage wells.
(B) "Major water source" - a lake, reservoir, river or stream located within the territorial limits of the state, or any marginal river area adjacent to the state, which can support a floating vessel capable of carrying one or more persons during a total of a six-month period in one out of ten years, excluding periods of flooding. Major water sources in the state are listed in Tables 1 and 2 in 567--Chapter 65.
(C) "Water source" - a lake, river, reservoir, creek, stream, ditch, or other body of water or channel having definite banks and a bed with water flow, except lakes or ponds without an outlet to which only one landowner is riparian.
(D) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.

**35.** Additional separation distance above minimum requirements, for the land application of manure, to the closest:
* High quality (HQ) water,
* High quality resource (HQR) water, or
* Protected water area (PWA).

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Additional separation distance of 200 feet | 5 | | 3.75 | 1.25 |
| Additional separation distance of 400 feet | 10 | | 7.50 | 2.50 |

(A) HQ waters are identified in 567--Chapter 61.
(B) HQR waters are identified in 567--Chapter 61.
(C) A listing of PWAs is available at:
http://www.iowadnr.gov/Recreation/CanoeingKayaking/StreamCare/ProtectedWaterAreas.aspx.

X **36.** Demonstrated community support.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Written approval of 100% of the property owners within a one mile radius | 20 | | | 20.00 |

X **37.** Worker safety and protection plan is submitted with the construction permit application.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Submission of worker safety and protection plan | 10 | | | 10.00 |

(A) The worker safety and protection plan must be in the construction permit application and made a condition in the approved construction permit.
(B) The worker safety and protection plan and subsequent records must be kept on site with the manure management plan records.

X **38.** Applicant signs a waiver of confidentiality allowing public to view confidential manure management plan land application records

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Manure management plan confidentiality waiver | 5 | | | 5.00 |

The waiver of confidentiality must be in the construction permit application and made a condition in the approved construction permit. The applicant may limit public inspection to reasonable times and places.

X **39.** Added economic value based on quality job development (number of full time equivalent (FTE) positions), and salary equal to or above Iowa department of workforce development median (45-2093)
-OR-
the proposed structure increases commercial property tax base in the county.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Economic value to local community | 10 | | | 10.00 |

The Iowa Department of Workforce Development regional profiles are available at http://www.iowaworkforce.org/centers/regionalsites.htm. Select the appropriate region and then select "Regional Profile."

X **40.** Construction permit application contains an emergency action plan.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Emergency action plan | 5 | | 2.50 | 2.50 |

(A) Iowa State University Extension publication PM 1859 lists the components of an emergency action plan. The emergency action plan submitted should parallel the components listed in the publication.
(B) The posting and implementation of an emergency action plan must be in the construction permit application and made a condition in the approved construction permit.
(C) The emergency action plan and subsequent records must be kept on site with the manure management plan records.

X **41.** Construction permit application contains a closure plan.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Closure Plan | 5 | | 2.50 | 2.50 |

(A) The closure plan must be in the construction permit application and made a condition in the approved construction permit.
(B) The closure plan must be kept on site with the manure management plan records.

X **42.** Adoption and implementation of an environmental management system (EMS) recognized by the department.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| EMS | 15 | 4.50 | 4.50 | 6.00 |

(A) The EMS must be in the construction permit application and made a condition in the approved construction permit.
(B) The EMS must be recognized by the department as an acceptable EMS for use with confinement operations.

X **43.** Adoption and implementation of NRCS approved Comprehensive Nutrient Management Plan (CNMP).

| | Score | Air | Water | Community |
|---|---|---|---|---|
| CNMP | 10 | 3.00 | 3.00 | 4.00 |

The implementation and continuation of a CNMP must be in the construction permit application and made a condition in the approved construction permit.

X **44.** Groundwater monitoring wells installed near manure storage structure, and applicant agrees to provide data to the department.

| | Score | Air | Water | Community |
|---|---|---|---|---|
| Groundwater monitoring | 15 | | 10.50 | 4.50 |

(A) Monitoring well location, sampling and data submission must meet department requirements.
(B) The design, operation and maintenance plan for the groundwater monitoring wells, and data transfer to the department, must be in the construction permit application and made a condition in the approved construction permit.

| | Total Score | Air | Water | Community |
|---|---|---|---|---|
| | 880 | 213.50 | 271.00 | 404.50 |
| Score to pass | 440 | 53.38 | 67.75 | 101.13 |

| | | | | |
|---|---|---|---|---|
| JT ALLENS GROVE PORK LLC - MM SCORES | 455 | 83.5 | 139 | 232.5 |

**JT ALLENS GROVE PORK LLC** 2/21/2018

**Master Matrix points table**

| Question | Score | Air | Water | Community |
|---|---|---|---|---|
| 1 | | | | |
| 2 | 30 | 12 | | 18 |
| 3 | 30 | 12 | | 18 |
| 4 | 15 | | 15 | |
| 5 | | | | |
| 6 | 10 | 4 | | 6 |
| 7 | | | | |
| 8 | 50 | 5 | 25 | 20 |
| 9 | 25 | 7.5 | 7.5 | 10 |
| 10 | 30 | | 22.5 | 7.5 |
| 11 | | | | |
| 12 | 30 | 27 | | 3 |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | 30 | | 27 | 3 |
| 18 | | | | |
| 19 | 20 | | | 20 |
| 20 | 30 | | | 30 |
| 21 | | | | |
| 22 | 25 | | | 25 |
| 23 | 25 | | | 25 |
| 24 | 20 | | | 20 |
| 25 | 25 | | 12.5 | 12.5 |
| 26 | 30 | 12 | 12 | 6 |
| 27 | | | | |
| 28 | | | | |
| 29 | 10 | | 10 | |
| 30 | | | | |
| 31 | 5 | 2 | | 3 |
| 32 | 5 | 2 | | 3 |
| 33 | | | | |
| 34 | | | | |
| 35 | 10 | | 7.5 | 2.5 |
| 36 | | | | |
| 37 | | | | |
| 38 | | | | |
| 39 | | | | |
| 40 | | | | |
| 41 | | | | |
| 42 | | | | |
| 43 | | | | |
| 44 | | | | |
| **TOTALS** | **455** | **83.5** | **139** | **232.5** |

# Manure Management Plan Form

## Animal Feeding Operation Information



**Instructions:** Complete this form for your animal feeding operation. Footnotes are provided on page 4.

The information within this form, and the attachments, describes my animal feeding operation, my manure storage and handling system, and my planned manure management system. I (we) will manage the manure, and the nutrients it contains, as described within this manure management plan (MMP) and any revisions of the plan, individual field information, and field summary sheet, and in accordance with current rules and regulations. Deviations permitted by Iowa law will be documented and maintained in my records.

**Signed:** Tom Dittmer Mgr (Signature) Tom Dittmer Mgr (Print name) **Date:** 3-2-18

**Name of operation:** JT ALLENS GROVE PORK LLC **Facility ID No.** NA

**Location of the operation:** 75TH AVE (911 address)

DIXON (Town) IOWA (State) (Zip)

NE (1/4 1/4) 1/4 of the SE (1/4) 1/4 of Sec 32 (Section) T 80N (Tier & Range) R 2E ALLENS GROVE (Township Name) SCOTT (County)

**Owner and contacts of the animal feeding operation:**

Owner JT ALLENS GROVE PORK LLC Phone 563-285-4006

Address 12090 240th St. Eldridge, IA 52748

E-mail address (optional) _____ Cell phone (optional) _____

Contact person (if different than owner) Tom Dittmer Phone 563-285-4006

Address 12090 240th St. Eldridge, IA 52748

E-mail address (optional) _____ Cell phone (optional) _____

Contract company (if applicable) _____ Phone _____

Address _____

**This manure management plan is for:** (check one)

___ existing operation, not expanding ___ existing operation, expanding ___ existing operation, new owner X new operation

**Construction and Expansion Dates:** _____ date of initial construction and all expansions

**Table 1. Information about livestock production and manure management system**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| Animal type/ Production phase[a] | Max # of animals confined | Manure Storage Structure [b] | N[c] | $P_2O_5$[c] | gal/space/dy[d] | Days/yr Facility occupied | Annual Manure Produced[e] |
| Select production phase | | | 0 | 0 | 0.0 | | 000 |
| Select production phase | | | 0 | 0 | 0.0 | | 000 |
| Select production phase | | | 0 | 0 | 0.0 | | 000 |
| Wean/finish (dry feed) | 4800 | Deep pit | 37 | 23 | 0.7 | 355 | 1,192,800 |
| | | | | | | | |
| | | | | | | **Total Gallons** | **1,192,800** |

**Estimated annual animal production[f]:** 9,600 animals/year

**Source of Manure Nutrient Content Data** (standard tables, manure analysis, other): manure analysis of similar barns

# Manure Management Plan Form

## Determining Maximum Allowable Manure Application Rates



**Instructions:** Complete a worksheet for each unique combination of the following factors (crop rotation, optimum crop yield, manure nutrient concentration, remaining crop N need, method of application) that occurs at this operation. Complete form by filling in blanks, yellow-colored cells, and drop down menus. Gray shaded cells will calculate automatically. Footnotes are given on pages 4, 5 and 6.

**Management Identification (Mgt ID)[f]** CC) CORN-CORN

*(identify this application scenario by letter)*

**Method to determine optimum crop yield[g]** Soil survey interpretation records

**Timing of application** SP OR FALL

**Method of application[h]** Knifed in or soil injection of liquid manure

**Application loss factor** 0.98

**If spray irrigation is used, identify method [i]**

### Table 2. Manure nutrient concentration

| Manure Nutrient Content (lbs/1000gal or lbs/ton) [j] | | | | | |
|---|---|---|---|---|---|
| Total N | 37 | $P_2O_5$ | 23 | | |
| %TN Available 1st year[k] | 100% | 2nd year | | 3rd year | |
| Available N 1st year[l] | 36.3 | 2nd year[m] | 0.0 | 3rd year[n] | 0.0 |

### Table 3. Crop usage rates[o]

| lb/bu or lb/ton | N | $P_2O_5$ |
|---|---|---|
| Corn | 1.2 | 0.32 |
| Soybean | 3.8 | 0.72 |
| Alfalfa | 50 | 13 |
| Other crop | 0 | 0 |

*Use blank space above to add crop not listed.

### Table 4. Calculations for rate based on nitrogen (always required)

| | | | Corn | Corn | Corn | Corn |
|---|---|---|---|---|---|---|
| 1 | Applying Manure For (crop to be grown)[p] | | | | | |
| 2 | Optimum Crop Yield [g] | bu or ton/acre | 223 | 223 | 223 | 223 |
| 3 | $P_2O_5$ removed with crop by harvest [q] | lb/acre | 71.4 | 71.4 | 71.4 | 71.4 |
| 4 | Crop N utilization [r] | lb/acre | 268 | 268 | 268 | 268 |
| 5a | Legume N credit [s] | lb/acre | | 0 | 0 | 0 |
| 5b | Commercial N planned[t] | lb/acre | 50 | 50 | 50 | 50 |
| 5c | Manure N carryover credit [u] | lb/acre | | 0.0 | 0.0 | 0.0 |
| 6 | Remaining crop N need [v] | lb/acre | 218 | 218 | 218 | 218 |
| 7 | Manure rate to supply remaining N [w] | gal/acre | 6001 | 6001 | 6001 | 6001 |
| 8 | $P_2O_5$ applied with N-based rate [x] | lb/acre | 138 | 138 | 138 | 138 |

### Table 5. Calculations for rate based on phosphorus (fill out only if P-based rates are planned)

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 | Commercial $P_2O_5$ planned [y] | lb/acre | | | | |
| 10 | Manure rate to supply P removal [z] | gal/acre | 3103 | 3103 | 3103 | 3103 |
| 11 | Manure rate for P based plan [aa] | gal/acre | | | | |
| 12 | Manure N applied with P-based plan [bb] | lb/acree | 0 | 0 | 0 | 0 |

### Table 6. Application rates that will be carried over to page 3

| | | | | | | |
|---|---|---|---|---|---|---|
| 13 | Planned manure application rate [cc] | gal/acre | 6168 | 6168 | 6168 | 6168 |

When applicable, manure application rates must be based on the P index value as follows:
(0-2) N-based manure management.
(>2-5) N-based manure management but P application rate cannot exceed two times the P removal rate of the crop schedule.
(>5-15) No manure application until practices are adopted to reduce P index to 5 or below.
(>15) No manure application.

# Manure Management Plan Form

## Year by Year Manure Management Plan Summary



**Instructions:** Complete this form for each of the next four growing seasons, to demonstrate sufficient land base to apply manure over multiple crop years. If this page is identical for multiple years (e.g. every other year), submit only once for the identical years, and indicate which years the form represents. Footnotes are given on

**Crop year(s):** 2019-2022

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|
| Field Designation [ee] | Field Location ___1/4 of the___ 1/4 Sec___ T___ R___ Townsip Name_____, County Name _____ | Mgt Id [ff] | Planned Crop | Acres receiving manure[gg] | Own, rent, agreement (include length of agreement) [hh] | P index value [ii] | HEL (Y/N)[jj] | Planned Application | | Correct Soil Test for P[ll] (Yes or No) |
| | | | | | | | | gal/acre | gal/field [kk] | |
| T RALFS EAST | E 1/2 SE & S 1/2 NE 32 80N 2E Allens Grove, Scott | CC | CORN | 118.4 | OWN | 0.97 | N | 6168 | 730291 | YES |
| T RALFS WEST | W 1/2 SE & SW SE 32 80N 2E Allens Grove, Scott | CC | CORN | 94.1 | OWN | 0.91 | N | 6168 | 580409 | YES |
| | | | | | | | | | 0 | |
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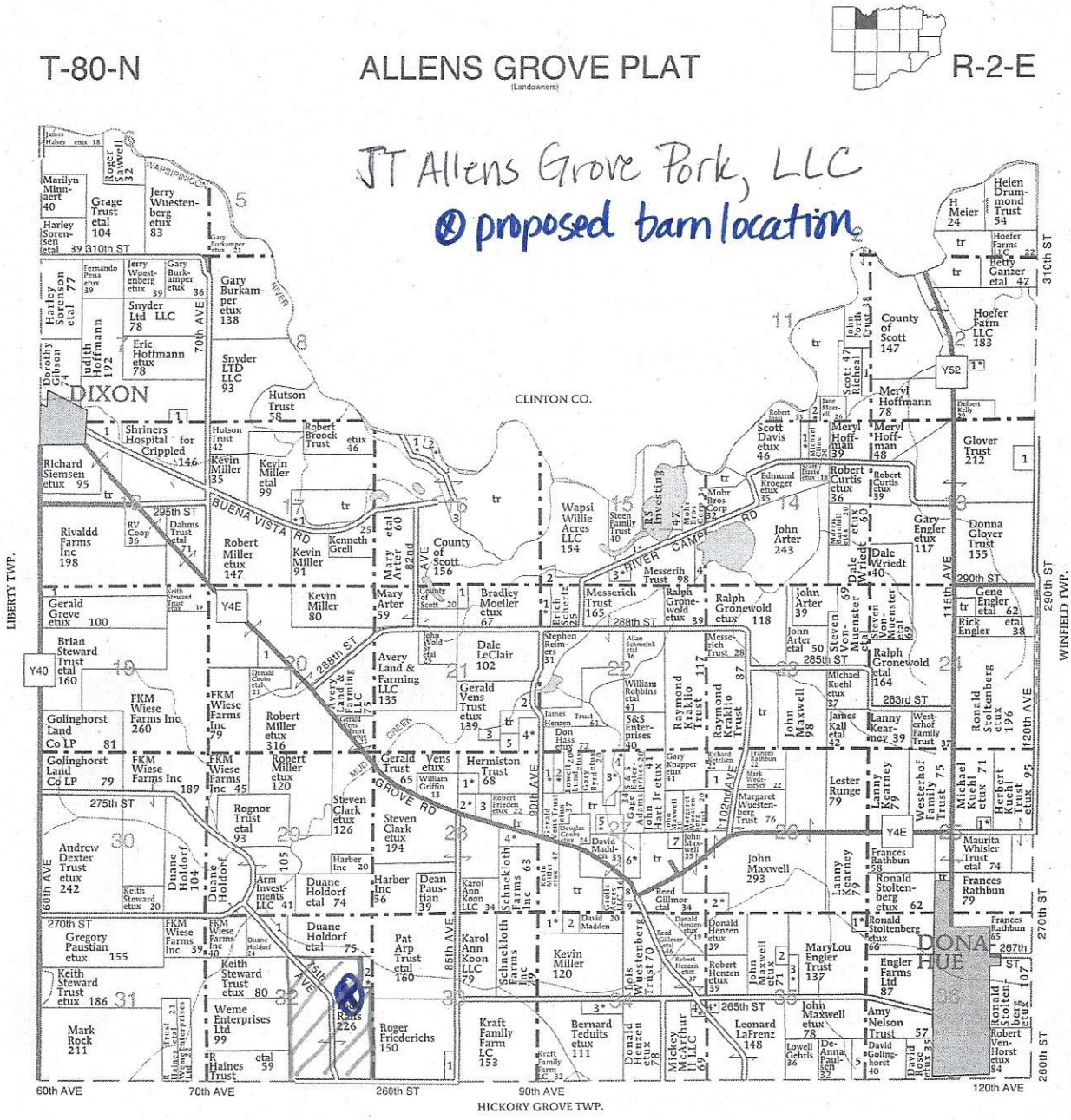
| | | | | | | | | | 0 | |
| | | | | | | | | | 0 | |
| | | | | | | | | | 0 | |
| | **Total acres available for manure application** | | | 212.5 | **Total gallons that could be applied** | | | | 1310700 | |

T-80-N

# ALLENS GROVE PLAT

(Landowners)

R-2-E




## ALLENS GROVE TOWNSHIP

**SECTION 7**
1. Bierman, Matthew 6

**SECTION 11**
1. Hoffman, Meryl 8
2. Fifer, Nancy 5

**SECTION 12**
1. Wegener, Dirk 11

**SECTION 13**
1. MCG Trust 10

**SECTION 14**
1. Fifer, Kirk 10

**SECTION 15**
1. Tuftee, Roger 8
2. Rohwer Jr, Albert 14
3. Ryan, James 5
4. Arter, John 14

**SECTION 16**
1. Wiggins, Lyle 15
2. Gliosci, Michael 9
3. Braet, Ruth 6

**SECTION 17**
1. Shachow, Peter 91

**SECTION 18**
1. Hoffman, Judith 12

**SECTION 19**
1. Rivaldd Farms Inc 19

**SECTION 20**
1. RH&K Enterprises 15

**SECTION 21**
1. Ewoldt, Jerry 12
2. Robinson-Kramer, Kathy 11
3. Hammes, Wilfred 9
4. Kramer, John 27
5. West, Barbara 5

**SECTION 22**
1. Wold, John 8

**SECTION 25**
1. Seifert, James 6

**SECTION 26**
1. Wuestenberg, Jerry 11
2. Gillmor, Reed 14

**SECTION 27**
1. Meyer, Christopher 9
2. Gephart, Jason 10
3. Wiese, Michael 6
4. McKinney, Greg 14
5. Onken, Matthew 17
6. Altenhofen, Donavon 20
7. Mahoney Trust, Mary 5
8. Jungwirth, Jane 8
9. Wuestenberg Trust, Lois 6

**SECTION 28**
1. Engel, James 10
2. Karnish, Thomas 13
3. Steffe, Gary 12
4. Karnish, Thomas 13

**SECTION 32**
1. Arm Investments LLC 12
2. Arp Trust, Pat 10

**SECTION 33**
1. Crossroads Development Co 6

**SECTION 34**
1. Miller, Kevin 13
2. Hermiston Trust 7
3. Wuestenberg, Roger 15
4. Keppy, Neal 8

**SECTION 35**
1. Stoltenberg, Ronald 9
2. Maxwell, John 6
3. Wiese, Michael 12
4. Duncan, Curtis 6
5. Golinghorst, David 13

USDA NRCS
Natural Resources Conservation Service

v. 1/22/2007

# Iowa Phosphorus Index

**Credits:** Iowa State University
USDA National Soil Tilth Laboratory
USDA Natural Resource Conservation Service

| Field Number | Erosion | | | | | | | + | Runoff | | | | | + | Tile / Subsurface Recharge | | | = | Overall |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Gross Erosion | x Sediment Trap Factor | x SDR | x Buffer Factor | x Enrichment Factor | x STP Factor | = Erosion PI | | RCN Factor | x ( STP Factor | + P App Factor | ) = Runoff PI | | | Flow Factor | x STP Factor | = Tile/Sub PI | | P Index |
| T RALFS EAST -- | 1.40 | 1.00 | 0.45 | 1.00 | 1.10 | 0.84 | 0.58 | | 1.40 | 0.22 | 0.00 | 0.31 | | | 1.00 | 0.08 | 0.08 | | 0.97 |
| T RALFS WEST -- | 1.60 | 1.00 | 0.40 | 1.00 | 1.10 | 0.81 | 0.57 | | 1.40 | 0.18 | 0.00 | 0.26 | | | 1.00 | 0.08 | 0.08 | | 0.91 |

JT ALLENS GROVE PORK LLC - FARM YIELDS BY SOIL TYPE

**T Rafls East**

| Soil type | Acres | Corn Yield | Bushels | SoybeanYd | Bushels |
|---|---|---|---|---|---|
| 11B | 10 | 221 | 2210 | 64 | 640 |
| 119 | 16.8 | 240 | 4032 | 70 | 1176 |
| 119B | 12.5 | 235 | 2937.5 | 68 | 850 |
| 120B | 36.1 | 235 | 8483.5 | 68 | 2454.8 |
| 120C | 0 | 228 | 0 | 66 | 0 |
| 133 | 42.4 | 210 | 8904 | 61 | 2586.4 |
| 442D2 | 5.7 | 177 | 1008.9 | 51 | 290.7 |
| 450B | 3.2 | 209 | 668.8 | 61 | 195.2 |
| | 126.7 | | 28244.7 | | 8193.1 |
| | | **Field Yield** | **223** | | **65** |

**T Rafls West**

| Soil type | Acres | Corn Yield | Bushels | SoybeanYd | Bushels |
|---|---|---|---|---|---|
| 119B | 21.9 | 235 | 5146.5 | 68 | 1489.2 |
| 120B | 14.6 | 235 | 3431 | 68 | 992.8 |
| 133 | 46.8 | 210 | 9828 | 61 | 2854.8 |
| 826 | 10.9 | 238 | 2594.2 | 69 | 752.1 |
| 977 | 1.7 | 238 | 404.6 | 69 | 117.3 |
| | 95.9 | | 21404.3 | | 6206.2 |
| | | **Field Yield** | **223** | | **65** |

**CNC AG LLC | Eldridge** **Sample No**
**Ralfs | West | 2017 | 94.1 acres**
**Field Sampled on 11/8/2016**


RIVER VALLEY COOPERATIVE

Maps as of 11/15/2016

REPORT NUMBER
**16-313-0864**
COMPLETED DATE
**Nov 11, 2016**
ACCOUNT
**7721**
RECEIVED DATE
**Nov 8, 2016**

# Midwest Laboratories Inc.®

13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402 334-9121
www.midwestlabs.com


TODAY'S DATE
**Nov 11, 2016**

**RIVER VALLEY COOPERATIVE**
**GRID ACCOUNT/IOWA**
**108 PROGRESS LANE**

**GENESEO IL 61254**

**IDENTIFICATION**
CNC AG LLC
RALFS
WEST

COPY TO
**17423**
2nd COPY TO
**26794**

**RIVER VALLEY COOP**
**MASTER ACCOUNT**
**PREMIER CROP SYSTEMS**
**DAN FRIEBERG**

| Lab | Sample | OM | Phosphorus | | | K | Mg | Ca | Na | pH | Buff | CEC | Percent Base Saturation | | | | | Nitrate | | | Total | S | Zn | Mn | Fe | Cu | B | Excess | Soluble | NH3- | MP3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P1 | P2 | Bic | | | | | | | | | | | | | Surface | | | | | | | | | | Lime | Salts | N | Color |
| Number | ID | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | | index | meq/100 | K | Mg | Ca | H | Na | ppm | lbs/A | depth | lbs/A | ppm | ppm | ppm | ppm | ppm | ppm | Rate | mmhos/cm | ppm | ppm |
| 30529476 | 1 | 4.1 | 14 | 20 | | 109 | 728 | 2998 | | 6.8 | | 21.3 | 1.3 | 28.5 | 70.2 | 0.0 | | | | 0-6 | | | | | | | | | | |
| 30529477 | 2 | 3.4 | 18 | 24 | | 109 | 534 | 2485 | | 6.3 | 6.7 | 19.2 | 1.5 | 23.2 | 64.7 | 10.6 | | | | 0-6 | | | | | | | | | | |
| 30529478 | 3 | 2.9 | 17 | 23 | | 111 | 325 | 1594 | | 5.1 | 6.5 | 17.7 | 1.6 | 15.3 | 45.0 | 38.1 | | | | 0-6 | | | | | | | | | | |
| 30529479 | 4 | 3.9 | 38 | 58 | | 183 | 433 | 2581 | | 6.1 | 6.6 | 19.8 | 2.4 | 18.2 | 65.2 | 14.2 | | | | 0-6 | | | | | | | | | | |
| 30529480 | 5 | 5.1 | 35 | 64 | | 146 | 640 | 3627 | | 6.1 | 6.6 | 27.7 | 1.4 | 19.3 | 65.5 | 13.8 | | | | 0-6 | | | | | | | | | | |
| 30529481 | 6 | 3.2 | 12 | 20 | | 117 | 421 | 2566 | | 6.1 | 6.7 | 19.3 | 1.6 | 18.2 | 66.5 | 13.7 | | | | 0-6 | | | | | | | | | | |
| 30529482 | 7 | 6.3 | 4 | 66 | | 150 | 342 | 5770 | | 7.9 | | 32.1 | 1.2 | 8.9 | 89.9 | 0.0 | | | | 0-6 | | | | | | | | | | 56 |
| 30529483 | 8 | 4.4 | 13 | 38 | | 133 | 698 | 3571 | | 5.8 | 6.4 | 29.6 | 1.2 | 19.7 | 60.3 | 18.8 | | | | 0-6 | | | | | | | | | | |
| 30529485 | 9 | 4.5 | 9 | 16 | | 96 | 473 | 2415 | | 5.4 | 6.4 | 22.8 | 1.1 | 17.3 | 53.0 | 28.6 | | | | 0-6 | | | | | | | | | | |
| 30529486 | 10 | 4.8 | 20 | 51 | | 114 | 735 | 3321 | | 6.5 | 6.7 | 24.9 | 1.2 | 24.6 | 66.7 | 7.5 | | | | 0-6 | | | | | | | | | | |
| 30529487 | 11 | 4.1 | 26 | 107 | | 120 | 523 | 3946 | | 7.8 | | 24.4 | 1.3 | 17.9 | 80.8 | 0.0 | | | | 0-6 | | | | | | | | | | 38 |
| 30529488 | 12 | 4.5 | 28 | 58 | | 149 | 795 | 3218 | | 6.7 | | 23.1 | 1.7 | 28.7 | 69.6 | 0.0 | | | | 0-6 | | | | | | | | | | |
| 30529489 | 13 | 4.1 | 11 | 15 | | 110 | 483 | 2419 | | 5.5 | 6.4 | 22.2 | 1.3 | 18.1 | 54.5 | 26.1 | | | | 0-6 | | | | | | | | | | |
| 30529490 | 14 | 3.8 | 10 | 12 | | 115 | 411 | 2140 | | 5.2 | 6.1 | 22.0 | 1.3 | 15.6 | 48.6 | 34.5 | | | | 0-6 | | | | | | | | | | |
| 30529491 | 15 | 5.3 | 7 | 40 | | 126 | 774 | 4393 | | 6.3 | 6.6 | 32.1 | 1.0 | 20.1 | 68.4 | 10.5 | | | | 0-6 | | | | | | | | | | |
| 30529492 | 16 | 4.6 | 11 | 25 | | 128 | 714 | 3733 | | 7.1 | | 24.9 | 1.3 | 23.9 | 74.8 | 0.0 | | | | 0-6 | | | | | | | | | | |
| 30529493 | 17 | 3.8 | 11 | 18 | | 117 | 381 | 2411 | | 5.9 | 6.6 | 18.7 | 1.6 | 17.0 | 64.5 | 16.9 | | | | 0-6 | | | | | | | | | | |
| 30529494 | 18 | 3.0 | 26 | 45 | | 130 | 494 | 2563 | | 6.7 | | 17.3 | 1.9 | 23.8 | 74.3 | 0.0 | | | | 0-6 | | | | | | | | | | |
| 30529495 | 19 | 3.2 | 29 | 36 | | 103 | 288 | 1465 | | 5.7 | 6.7 | 12.7 | 2.1 | 18.9 | 57.7 | 21.3 | | | | 0-6 | | | | | | | | | | |
| 30529496 | 20 | 3.1 | 15 | 20 | | 98 | 373 | 1691 | | 5.8 | 6.6 | 14.6 | 1.7 | 21.3 | 57.9 | 19.1 | | | | 0-6 | | | | | | | | | | |
| 30529497 | 21 | 3.5 | 12 | 18 | | 100 | 568 | 2371 | | 6.4 | 6.7 | 18.5 | 1.4 | 25.6 | 64.1 | 8.9 | | | | 0-6 | | | | | | | | | | |
| 30529498 | 22 | 3.2 | 20 | 31 | | 121 | 491 | 1990 | | 6.4 | 6.8 | 15.8 | 2.0 | 25.9 | 63.0 | 9.1 | | | | 0-6 | | | | | | | | | | |
| 30529499 | 23 | 2.9 | 11 | 18 | | 90 | 319 | 1536 | | 5.6 | 6.6 | 13.8 | 1.7 | 19.3 | 55.7 | 23.3 | | | | 0-6 | | | | | | | | | | |
| 30529500 | 24 | 3.0 | 44 | 55 | | 155 | 335 | 1606 | | 5.9 | 6.7 | 13.5 | 2.9 | 20.7 | 59.5 | 16.9 | | | | 0-6 | | | | | | | | | | |
| 30529501 | 25 | 3.3 | 21 | 37 | | 167 | 346 | 1886 | | 6.2 | 6.7 | 14.4 | 3.0 | 20.0 | 65.5 | 11.5 | | | | 0-6 | | | | | | | | | | |
| 30529502 | 26 | 3.7 | 15 | 22 | | 110 | 410 | 2264 | | 6.2 | 6.7 | 17.0 | 1.7 | 20.1 | 66.6 | 11.6 | | | | 0-6 | | | | | | | | | | |
| 30529503 | 27 | 4.4 | 13 | 27 | | 131 | 552 | 2965 | | 6.6 | 6.8 | 21.1 | 1.6 | 21.8 | 70.3 | 6.3 | | | | 0-6 | | | | | | | | | | |
| 30529504 | 28 | 4.2 | 6 | 14 | | 93 | 398 | 1919 | | 5.2 | 5.9 | 20.1 | 1.2 | 16.5 | 47.7 | 34.6 | | | | 0-6 | | | | | | | | | | |
| 30529505 | 29 | 3.3 | 7 | 12 | | 69 | 272 | 1319 | | 5.1 | 6.4 | 14.5 | 1.2 | 15.6 | 45.5 | 37.7 | | | | 0-6 | | | | | | | | | | |
| 30529506 | 30 | 4.4 | 12 | 16 | | 103 | 466 | 2119 | | 5.8 | 6.6 | 18.2 | 1.5 | 21.3 | 58.2 | 19.0 | | | | 0-6 | | | | | | | | | | |
| 30529507 | 31 | 3.3 | 9 | 13 | | 135 | 403 | 1945 | | 5.9 | 6.6 | 16.2 | 2.1 | 20.7 | 60.0 | 17.2 | | | | 0-6 | | | | | | | | | | |
| 30529508 | 32 | 3.1 | 18 | 28 | | 119 | 435 | 2066 | | 6.5 | 6.8 | 15.5 | 2.0 | 23.4 | 66.6 | 8.0 | | | | 0-6 | | | | | | | | | | |

**The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.**

REPORT NUMBER
**16-313-0864**
COMPLETED DATE
**Nov 11, 2016**
ACCOUNT
**7721**
RECEIVED DATE
**Nov 8, 2016**

Midwest Laboratories Inc.®
13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402 334-9121
www.midwestlabs.com


TODAY'S DATE
**Nov 11, 2016**

**RIVER VALLEY COOPERATIVE**
**GRID ACCOUNT/IOWA**
**108 PROGRESS LANE**

**GENESEO IL 61254**

**IDENTIFICATION**
CNC AG LLC
RALFS
WEST

COPY TO
**17423**
2nd COPY TO
**26794**

**RIVER VALLEY COOP**
**MASTER ACCOUNT**
**PREMIER CROP SYSTEMS**
**DAN FRIEBERG**

| Lab | Sample | OM | Phosphorus | | | K | Mg | Ca | Na | pH | Buff | CEC | Percent Base Saturation | | | | | Nitrate Surface | | | Total | S | Zn | Mn | Fe | Cu | B | Excess Lime | Soluble Salts | NH3-N | MP3 Color |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Number | ID | % | P1 ppm | P2 ppm | Bic ppm | ppm | ppm | ppm | ppm | | index | meq/100 | K | Mg | Ca | H | Na | ppm | lbs/A | depth | lbs/A | ppm | ppm | ppm | ppm | ppm | ppm | Rate | mmhos/cm | ppm | ppm |
| 30529509 | 33 | 3.0 | 33 | 51 | | 107 | 357 | 2062 | | 7.4 | | 13.6 | 2.0 | 21.9 | 76.1 | 0.0 | | | | 0-6 | | | | | | | | | | | 50 |
| 30529510 | 34 | 3.7 | 126 | 127 | | 524 | 441 | 2299 | | 7.3 | | 16.5 | 8.1 | 22.3 | 69.6 | 0.0 | | | | 0-6 | | | | | | | | | | | 184 |
| 30529511 | 35 | 3.1 | 108 | 121 | | 375 | 328 | 1993 | | 6.5 | 6.8 | 14.8 | 6.5 | 18.5 | 67.3 | 7.7 | | | | 0-6 | | | | | | | | | | | |
| 30529512 | 36 | 3.2 | 43 | 51 | | 196 | 320 | 1623 | | 5.5 | 6.6 | 15.3 | 3.3 | 17.4 | 53.0 | 26.3 | | | | 0-6 | | | | | | | | | | | |
| 30529513 | 37 | 3.0 | 24 | 35 | | 125 | 497 | 1996 | | 6.7 | | 14.4 | 2.2 | 28.8 | 69.0 | 0.0 | | | | 0-6 | | | | | | | | | | | |

**CNC AG LLC | Eldridge** **P(ppm)**
**Ralfs | Home East 80 | 2018 | 74.7 acres**
**Field Sampled on 10/12/2015**


| P(ppm) |
|---|
| 11 to 16 (7.45 acres) |
| 16 to 18 (15.02 acres) |
| 18 to 20 (15.25 acres) |
| 20 to 21 (14.41 acres) |
| 21 to 26 (15.05 acres) |
| 26 to 40 (7.55 acres) |

| |
|---|
| Min: 11.2 |
| Max: 39.6 |
| Avg: 20.6 |

RIVER VALLEY COOPERATIVE

Maps as of 2/22/2018

**CNC AG LLC | Eldridge** **P(ppm)**
**Ralfs | North 50 | 2018 | 48.7 acres**
**Field Sampled on 10/12/2015**


| P(ppm) |
|---|
| 31 to 40 (4.87 acres) |
| 40 to 46 (9.76 acres) |
| 46 to 47 (9.8 acres) |
| 47 to 49 (9.62 acres) |
| 49 to 59 (9.8 acres) |
| 59 to 85 (4.86 acres) |

| |
|---|
| Min: 30.5 |
| Max: 84.9 |
| Avg: 48.8 |

RIVER VALLEY COOPERATIVE

Maps as of 2/22/2018

USDA NRCS Natural Resources Conservation Service

# RUSLE2 Profile Erosion Calculation Record

Info: T Ralfs East

**File:** profiles\DITTMER

**Inputs:**
Location: USA\Iowa\Scott County
Soil: Scott County, Iowa\120B Tama silty clay loam, 2 to 5 percent slopes\Tama Silty clay loam 95%
Slope length (horiz): 150 ft
Avg. slope steepness: 4.0 %

| *Management* | *Vegetation* | *Yield units* | *# yield units, #/ac* |
|---|---|---|---|
| managements\CMZ 04\c.Other Local Mgt Records\DITTMERcorn grain;FC, st pt, disk, fcult, z4 | vegetations\Corn, grain | bushels | 235.00 |

Contouring: a. rows up-and-down hill
Strips/barriers: (none)
Diversion/terrace, sediment basin: (none)
Subsurface drainage: (none)
Adjust res. burial level: Normal res. burial

**Outputs:**
T value: 5.0 t/ac/yr
Soil loss erod. portion: 1.4 t/ac/yr
Detachment on slope: 1.4 t/ac/yr
Soil loss for cons. plan: 1.4 t/ac/yr
Sediment delivery: 1.4 t/ac/yr

Crit. slope length: 150 ft
Surf. cover after planting: 69 %
Avg. ann. forage harvest: 0 lb/ac

| *Date* | *Operation* | *Vegetation* | *Surf. res. cov. after op, %* |
|---|---|---|---|
| 11/1/0 | Fert applic. surface broadcast | | 97 |
| 11/1/0 | Manure injector, liquid low disturb.30 inch | | 97 |
| 11/3/0 | Chisel, st. pt. | | 80 |
| 4/28/1 | Cultivator, field 6-12 in sweeps | | 68 |
| 5/1/1 | planter, double disk opnr | Corn, grain | 69 |
| 5/3/1 | Sprayer, pre-emergence | | 68 |
| 6/7/1 | Sprayer, post emergence and fert. tank mix | | 60 |
| 10/20/1 | Harvest, killing crop 50pct standing stubble | | 93 |

USDA NRCS Natural Resources Conservation Service

# RUSLE2 Profile Erosion Calculation Record

T Ralfs West

**Inputs:**
Location: USA\Iowa\Scott County
Soil: Scott County, Iowa\119B Muscatine silty clay loam, 2 to 5 percent slopes\Muscatine Silty clay loam 95%
Slope length (horiz): 150 ft
Avg. slope steepness: 4.0 %

| *Management* | *Vegetation* | *Yield units* | *# yield units, #/ac* |
|---|---|---|---|
| managements\CMZ 04\c.Other Local Mgt Records\DITTMERcorn grain;FC, st pt, disk, fcult, z4 | vegetations\Corn, grain | bushels | 235.00 |

Contouring: a. rows up-and-down hill
Strips/barriers: (none)
Diversion/terrace, sediment basin: (none)
Subsurface drainage: (none)
Adjust res. burial level: Normal res. burial

**Outputs:**
T value: 5.0 t/ac/yr
Soil loss erod. portion: 1.6 t/ac/yr
Detachment on slope: 1.6 t/ac/yr
Soil loss for cons. plan: 1.6 t/ac/yr
Sediment delivery: 1.6 t/ac/yr

Crit. slope length: 150 ft
Surf. cover after planting: 69 %
Avg. ann. forage harvest: 0 lb/ac

| *Date* | *Operation* | *Vegetation* | *Surf. res. cov. after op, %* |
|---|---|---|---|
| 11/1/0 | Fert applic. surface broadcast | | 97 |
| 11/1/0 | Manure injector, liquid low disturb.30 inch | | 97 |
| 11/3/0 | Chisel, st. pt. | | 80 |
| 4/28/1 | Cultivator, field 6-12 in sweeps | | 68 |
| 5/1/1 | planter, double disk opnr | Corn, grain | 69 |
| 5/3/1 | Sprayer, pre-emergence | | 68 |
| 6/7/1 | Sprayer, post emergence and fert. tank mix | | 60 |
| 10/20/1 | Harvest, killing crop 50pct standing stubble | | 93 |

Please staple check here

# Iowa Department of Natural Resources

## Construction Permit Application Form

### Confinement Feeding Operations

**INSTRUCTIONS:**

Prior to constructing, installing, modifying or expanding a confinement feeding operation structure[1], answer questions 1-8 on Item 3, Section A (page 2), to determine if a construction permit is required. To calculate the animal unit capacity (AUC) of the operation, complete Table 1 (page 4.) If a construction permit is required, complete the rest of the form, have the applicant(s) sign it on pages 5 and 6. Mail to the DNR (see address on page 5) this application form, documents and fees requested in Checklist No. 1 or 2 (pages 10-15). See item 5 (page 5), to determine which checklist to use.

If a construction permit is not needed, some pre-construction requirements may still apply prior to the construction of a formed manure storage structure[2]. See page 5 for additional DNR contact information.

**THIS APPLICATION IS FOR:**

1. ☐ **A new confinement feeding operation**
2. ☒ **An existing confinement feeding operation** *(answer all of the following questions):*
   a) Facility ID No. (5 digit number): NA
   b) Date when the operation was first constructed: _____
   c) Date when the last construction, expansion or modification was completed: _____

(Not needed if the confinement operation has previously received a construction permit from DNR.)

d) Is this also an ownership change? ☐ Yes ☒ No If yes box is checked additional fees apply. See page 8

**ITEM 1 – LOCATION AND CONTACT INFORMATION** (*See page 17 for instructions and an example*):

A) Name of operation: JT Allens Grove Pork LLC

Location: NE (1/4 1/4) SE (1/4) 32 (Section) T80N R2W (Tier & Range) Allens Grove (Name of Township) Scott (County)

B) Applicant information:

Name: JT Allens Grove LLC Title: Owner

Address: 12090 240TH ST. ELDRIDGE, IA 52748

Telephone: 563-285-4006 Fax: _____ Email: _____

C) Person to contact with questions about this application (if different than applicant):

Name: Carrie Keppy Title: Consultant

Address: 13258 Slopertown Rd. Davenport, IA 52806

Telephone: 515-979-6954 Fax: _____ Email: ctkeppy@netins.net

☒ Enclose aerial photo or engineering drawing showing the proposed location of the confinement feeding operation structure[1] and all applicable separation distances, as requested in Attachment 1 (pages 11-12 or 14-15). See example of aerial photo on pages 18 to 19, at the end of this form.

☐ I manage or am the majority owner of another confinement feeding operation located within 2,500 feet of the proposed site. Please contact the DNR AFO Program staff at (712) 262-4177 to verify site adjacency requirements.

[1] Confinement feeding operation structure = animal feeding operation structure (confinement building, manure storage structure or egg washwater storage structure) that is part of a confinement feeding operation. Manure storage structures include formed and unformed manure storage structures.

[2] Formed manure storage structure = covered or uncovered concrete or steel tanks, and concrete pits below the building.

## ITEM 2 – SITING INFORMATION:

A) Karst Determination: Go to DNR AFO Siting Atlas at http://programs.iowadnr.gov/maps/afo/. Agree to the disclaimer, then search for your site by either scrolling into your location or entering an address or legal description in the bottom search bar. Left click on the location of your proposed structure. Make sure the karst layer box is checked on the map layers. If you cannot access the map, or if you have questions about this issue, contact the AFO Engineer at (712) 262-4177. Check one of the following:

- ■ The site is not in karst or potential karst. Print and enclose the map with the name and location of the site clearly marked.
- ☐ The site is in karst. The upgraded concrete standards of 567 IAC 65.15(14)"c" must be used. Refer to "Applicant's submittal checklist" on page 10 for karst documentation.
- ☐ The site is within 1,000 feet of a known sinkhole, Secondary Containment Barrier is required in accordance with 567 IAC 65.15(17).

B) Alluvial Soils Determination: Go to the AFO Siting Atlas as described above. Make sure the alluvial layer box is checked on the map legend. If you cannot access the map, or if you have questions about this issue, contact DNR Flood Plain at (866) 849-0321. Check one of the following:

- ☐ The site is not in alluvial soils. Print and enclose the map with the name and location of the site clearly marked.
- ■ The site is in alluvial soils. You will need to submit a request for a flood plain determination from DNR Flood Plain (866) 849-0321. After receiving determination submit one of the following:
  - ☐ Not in 100-year floodplain or does not require a flood plain permit. Include correspondence from the DNR Flood Plain Section.
  - ☐ Requires flood plain permit. Include flood plain permit.
  - ■ Documentation has been submitted to determine site is not in alluvial soils. Refer to "Applicant's Submittal Checklist" on page 10 for alluvial soils documentation.

## ITEM 3 – OPERATION INFORMATION:

A) A construction permit is required prior to any of the following:

1. ☐ Constructing or modifying any unformed manure storage structure[3], or constructing or modifying a confinement building that uses an unformed manure storage structure[3].
2. ■ Constructing, installing or modifying a confinement building or a formed manure storage structure[2] at a confinement feeding operation if, after construction, installation or expansion, the AUC of the operation is 1,000 animal units (AU) or more. This also applies to confinement feeding operations that store manure exclusively in a dry form.
3. ☐ Initiating a change that would result in an increase in the volume of manure or a modification in the manner in which manure is stored in any unformed manure storage structure[3], even if no construction or physical alteration is necessary. Increases in the volume of manure due to an increase in animal capacity, animal weight capacity or AUC up to the limits specified in a previously issued construction permit do not require a new construction permit.
4. ☐ Initiating a change, even if no construction or physical alteration is necessary, that would result in an increase in the volume of manure or a modification in the manner in which manure is stored in a formed manure storage structure[2] if, after the change, the AUC of the operation is 1,000 AU or more. Increases in the volume of manure due to an increase in animal capacity, animal weight capacity or AUC up to the limits specified in a previously issued construction permit do not require a new construction permit.
5. ☐ Constructing or modifying any egg washwater storage structure or a confinement building at a confinement feeding operation that includes an egg washwater storage structure.
6. ☐ Initiating a change that would result in an increase in the volume of egg washwater or a modification in the manner in which egg washwater is stored, even if no construction or physical alteration is necessary. Increases in the volume of egg washwater due to an increase in animal capacity, animal weight capacity or AUC up to the limits specified in a previously issued construction permit do not require a new construction permit.
7. ☐ Repopulating a confinement feeding operation if it was closed for 24 months or more and if any of the following apply:
   1. ☐ The confinement feeding operation uses an unformed manure storage structure[3] or egg washwater storage structure;
   2. ☐ The confinement feeding operation includes only confinement buildings and formed manure storage structures[2] and has an AUC of 1,000 AU or more.
8. ☐ Installing a permanent manure transfer piping system, unless the department determines that a construction permit is not required.

[3] Unformed manure storage structure = covered or uncovered anaerobic lagoon, earthen manure storage basin, aerobic earthen structure.

B) **In your own words, describe in detail, the proposed construction, expansion, installation, modification or repair being proposed in this project.(Must be completed) Attach additional pages if necessary:**

The proposed construction is of two(2) wean/finish barns, each 241'-4" long x 81'-2" wide x 8'-0" deep, below-ground, covered, concrete manure storage. Pit fans to be located on 6'-0"long x 6'-0"wide x 8'-0" deep pumpout ports. Water line will not enter buliding through manure storage structure. Each barn is planned to house 2400 head.

C) **Master Matrix** *(must check one)*. If any of boxes 1 to 3 are checked, the operation is required to be evaluated with the master matrix if the county, where the confinement feeding operation structure[1] is or would be located, has adopted a 'Construction Evaluation Resolution' (CER). Select the one that best describes your confinement feeding operation:

1. ☒ A new confinement feeding operation proposed in a county that has adopted a CER.
2. ☐ An existing operation constructed on or after April 1, 2002, in a county that has adopted a CER.
3. ☐ An existing operation constructed prior to April 1, 2002, with a current or proposed AUC of 1,667 AU or more, in a county that has adopted a CER.
4. ☐ None of the above. Therefore, the master matrix evaluation is not required.

D) **Qualified Operation** *(must check one)*. If any of boxes 1 to 4 are checked, the operation is also a 'qualified operation'. A qualified operation is required to use a manure storage structure that employs bacterial action which is maintained by the utilization of air or oxygen, and which shall include aeration equipment. However, this requirement does not apply if box 5 is checked. Select the one that best describes your confinement feeding operation:

1. ☐ A swine farrowing and gestating operation with an AUC of 2,500 AU or more. If the replacement breeding swine are raised and used at the operation, the animal units for those replacement animals do not count in the operations total AUC.
2. ☐ A swine farrow-to-finish operation with an AUC of 5,400 AU or more.
3. ☐ A cattle confinement feeding operation (including dairies) with an AUC of 8,500 AU or more.
4. ☐ Other confinement feeding operations with an AUC of 5,333 AU or more.
5. ☒ This is not a qualified operation because:
   a. ☒ It is below the limits shown on boxes 1 to 4.
   b. ☐ It includes a confinement feeding operation structure[1] constructed prior to May 31, 1995.
   c. ☐ It handles manure exclusively in a dry form (poultry).

## ITEM 4 – ANIMAL UNIT CAPACITY (AUC) and, if applicable, ANIMAL WEIGHT CAPACITY (AWC):

### A) Calculating AUC – Required for all operations

For each animal species, multiply the maximum number of animals that you would ever confine at one time by the appropriate factor, then add all AU together on Table 1 (page 4). Use the maximum market weight for the appropriate animal species to select the AU factor.

You must complete all applicable columns in Table 1. Use column a) to calculate the existing AUC, before permit for existing operations only. Use column b) to calculate the 'Total proposed AUC' (after a permit is issued) including new operations. The number obtained in column b) is the AUC of the operation and must be used to determine permit requirements. Use column c) to calculate the 'New AU' to be added to an existing operation. To calculate the indemnity fee (see page 7), also use column c), however, if the "Existing AUC" (column a) is 500 AU or less, enter the "Total proposed AUC" (column b) in the "New AU" (column c).

In calculating the AUC of a confinement feeding operation, you must include the AUC of all confinement buildings which are part of the confinement feeding operation, unless a confinement building has been abandoned. A confinement feeding operation structure[1] is abandoned if the confinement feeding operation structure[1] has been razed, removed from the site of a confinement feeding operation, filled in with earth, or converted to uses other than a confinement feeding operation structure[1] so that it cannot be used as a confinement feeding operation structure[1] without significant reconstruction. Therefore, in Table 1, enter the animal unit capacity of all the confinement buildings, including those that are from an "adjacent" operation located within 2,500 feet. For more information, contact the AFO Program at (712) 262-4177.

**Table 1. Animal Unit Capacity (AUC):** **(No. HEAD) x (FACTOR) = AUC**

| Animal Species | a) Existing AUC (Before permit) | | | b) Total Proposed AUC (After permit) | | |
|---|---|---|---|---|---|---|
| | (No. Head) | x (Factor) | = AUC | (No. Head) | x (Factor) | = AUC |
| Slaughter or feeder cattle | | 1.0 | | | 1.0 | |
| Immature dairy cattle | | 1.0 | | | 1.0 | |
| Mature dairy cattle | | 1.4 | | | 1.4 | |
| Gestating sows | | 0.4 | | | 0.4 | |
| Farrowing sows & litter | | 0.4 | | | 0.4 | |
| Boars | | 0.4 | | | 0.4 | |
| Gilts | | 0.4 | | | 0.4 | |
| Finished (Market) hogs | | 0.4 | | 4800 | 0.4 | 1920 |
| Nursery pigs 15 lbs to 55 lbs | | 0.1 | | | 0.1 | |
| Sheep and lambs | | 0.1 | | | 0.1 | |
| Horses | | 2.0 | | | 2.0 | |
| Turkeys 7lbs or more | | 0.018 | | | 0.018 | |
| Turkeys less than 7 lbs | | 0.0085 | | | 0.0085 | |
| Broiler/Layer chickens 3 lbs or more | | 0.01 | | | 0.01 | |
| Broiler/Layer chickens less than 3 lbs | | 0.0025 | | | 0.0025 | |
| Fish | | 0.001 | | | 0.001 | |

**Note**: If the "Existing AUC" (column a) is 500 AU or less, enter the "Total proposed AUC" (column b) in the "New AU" (column c)

| TOTALS: | a) Existing AUC: | | b) Total proposed AUC: | 1920 | c) New AU = b) - a): d) | 1920 |
|---|---|---|---|---|---|---|

*(This is the AUC of the operation)*

**B) Calculating AWC - Only for operations first constructed prior to March 1, 2003**

The AWC is needed for an operation that was first constructed prior to March 1, 2003, to determine some of the minimum separation distance requirements for construction or expansion.

The AWC is the product of multiplying the maximum number of animals that you would ever confine at any one time by their average weight (lbs) during the production cycle. Then add the AWC if more than one animal species is present (examples on how to determine the AWC are provided in 567 IAC 65.1(455B).)

If the operation was first constructed prior to March 1, 2003, you must complete all applicable columns in Table 2:

**Table 2. Animal Weight Capacity (AWC):** **(No. head) * (Avg. weight, lbs) = AWC, lbs**

| Animal Species | a) Existing AWC (Before Permit) | | | b) Proposed AWC (After permit) | | |
|---|---|---|---|---|---|---|
| | (No. head) x | avg weight | = AWC | (No. head) x | avg weight | = AWC |
| Slaughter or feeder cattle | | | | | | |
| Immature dairy cattle | | | | | | |
| Mature dairy cattle | | | | | | |
| Gestating sows | | | | | | |
| Farrowing sows & litter | | | | | | |
| Boars | | | | | | |
| Gilts | | | | | | |
| Finished (Market) hogs | | | | | | |
| Nursery pigs 15 lbs to 55 lbs | | | | | | |
| Sheep and lambs | | | | | | |
| Horses | | | | | | |
| Turkeys 7lbs or more | | | | | | |
| Turkeys less than 7 lbs | | | | | | |
| Broiler/Layer chickens 3 lbs or more | | | | | | |
| Broiler/Layer chickens less than 3 lbs | | | | | | |
| Fish | | | | | | |

| TOTALS: | a) Existing AWC: | | b) Total proposed AWC: | | c) New AWC = b) - a): | |
|---|---|---|---|---|---|---|

*(This is the AWC of the operation)*

**ITEM 5 – SUBMITTAL REQUIREMENTS** Checklists No. 1 or 2 (pages 10-15) describe the submittal requirements, which are based on the type of confinement feeding operation structure[1] and AUC proposed. To determine which checklist to use, choose the option that best describes your confinement feeding operation:

A) ■ Formed manure storage structures[2]: The proposed confinement feeding operation structure[1] will be or will use a formed manure storage structure[2]. Check one of the following boxes:

1. ☐ A swine farrowing and gestating operation with an AUC of 1,250 AU or more. Use Submittal Checklist No. 2 (page 13).
2. ☐ A swine farrow-to-finish operation with an AUC of 2,750 AU or more. Use Submittal Checklist No. 2 (page 13).
3. ☐ A cattle confinement feeding operation (including dairies) with an AUC of 4,000 AU or more. Use Submittal Checklist No. 2 (page 13).
4. ☐ Other confinement feeding operations with an AUC of 3,000 AU or more. Use Submittal Checklist No. 2 (page 13).
5. ■ None of the above. Use Submittal Checklist No. 1 (page 10).

If any of boxes 1 to 4 are checked, the operation meets the threshold requirements for an engineer[4] and a Professional Engineer (PE), licensed in Iowa, is required. For these cases, use Submittal Checklist No. 2 (page 13).

If you checked box 5, your operation is below threshold requirements for an engineer[4] and a Professional Engineer (PE) is not required. Use Submittal Checklist No. 1 (page 10).

B) ☐ Unformed manure storage structure[3]: The proposed confinement feeding operation structure[1], will be or will use an unformed manure storage structure[3] or an egg washwater storage structure. A Professional Engineer (PE) licensed in Iowa must design and sign the engineering documents for any size of operation. Use Submittal Checklist No. 2 (page 13) and Addendum "A" (page 16).

**ITEM 6 – SIGNATURE:**

I hereby certify that the information contained in this application is complete and accurate.

Signature of Applicant(s): T C Mgr Date: 3-2-18

**MAILING INSTRUCTIONS:**

To expedite the application process, follow the submittal requirements explained in Checklist No. 1 or 2 (pages 10 to 16), whichever applies. Page 1 of this form should be the first page of the package. Mail all documents and fees to:

**Iowa DNR**
**AFO Program**
**1900 N Grand Ave**
**Gateway North, Ste E17**
**Spencer, IA 51301**

*(Note: Incomplete applications will be returned to the sender.)*

## Questions

Questions about construction permit requirements or regarding this form should be directed to an engineer of the animal feeding operations (AFO) Program at (712) 262-4177 To contact the appropriate DNR Field Office, go to http://www.iowadnr.gov/InsideDNR/DNRStaffOffices/EnvironmentalFieldOffices.aspx.

[4] Threshold requirements for an engineer apply to the construction of a formed manure storage structure[2]. Operations that meet or exceed the threshold requirements for an engineer are required to submit engineering documents signed by a professional engineer licensed in the state of Iowa. Please refer to Checklist No. 2 (pages 13-15).

ITEM 7

## Interested Parties Form
## Confinement Feeding Operation

**Interest** means ownership of a confinement feeding operation as a sole proprietor or a 10 percent or more ownership interest held by a person in a confinement feeding operation as a joint tenant, tenant in common, shareholder, partner, member, beneficiary or other equity interest holder. Ownership interest is an interest when it is held either directly or indirectly through a spouse or dependent child, or both.

**INSTRUCTIONS:**

Please list all persons (including corporations, partnerships, etc.) who have an interest in any part of the confinement feeding operation covered by this permit application.

| Full Name | Address | City/State | Zip |
|---|---|---|---|
| Tom Dittmer | 12090 240th St. | Eldridge/IA | 52748 |
| Joni Dittmer | 12090 240th St. | Eldridge/IA | 52748 |

For each name above, please list below all other confinement feeding operations in Iowa in which that person has an interest. Check box "**None**", below, if there are no other confinement feeding operations in Iowa in which the above listed person(s) has or have an interest.

| Operation Name | Location (1/4 1/4, 1/4, Section, Tier, Range, Township, County) | City |
|---|---|---|
| ☐ **None** [There are no other confinements in Iowa in which the above listed person(s) has or have an interest]. | | |
| SEE ATTATCHED PAGE | | |

I hereby certify that the information provided on this form is complete and accurate.

Signature of Applicant(s): Tom Dittmer Mgr Date: 3-2-18

| Farm ID# | Farm Name | Legal Despcription | CITY |
|---|---|---|---|
| 59556 | Home Sow | SW SW Sec. 7 T79N R3E Sheridan, Scott Co. | Eldridge |
| 59557 | Walcott WF | NW SW Sec. 10 T78N R2E Blue Grass, Scott Co. | Walcott |
| 65036 | Engler Site | SE NW Sec. 4 T79N R3E Sheridan, Scott Co. | Long Grove |
| 65037 | DeWulf Site | SE SW Sec. 17 T80N R3E Winfield, Scott Co. | Eldridge |
| 65381 | TJ WF | NW NW Sec. 13 T79N R2E Hickory Grove, Scott Co. | Eldridge |
| 66831 | TJ West | NW NE Sec. 24 T79N R1W Farmington, Cedar Co. | Durant |
| 66929 | J2T2 LLC | NE NE SEC. 17 T79N R1W Cleona, Scott Co. | Stockton |
| 67903 | Pioneer WF | NE NE Sec. 25 T79N R1W Farminton, Cedar Co. | Durant |
| 67907 | Wheatland Site | SW SE SEC 15 T81N R1E Spring Rock, Clinton Co. | Wheatland |
| 68641 | Urmie Site | SE SW SEC. 9 T80N R2W Center, Cedar Co. | Tipton |
| 68688 | JT Center Pork 2+ | SW SE SEC. 22 T80N R2W Center, Cedar Co. | Tipton |
| 68689 | JT Center Pork 1 | SE SE SEC. 33 T80N 2W Center, Cedar co. | Tipton |
| 56977 | JT Center Pork 3 | NW NW Sec. 26 T80N R2W Center, Cedar Co. | Tipton |
| 68979 | JT Farmington Pork | NE NW Sec. 7 T79N R1W Farmington, Cedar Co. | Tipton |
| 69557 | JT Rochester Pork | NE NW Sec. 6 T79N R2W Rochester, Cedar Co. | Tipton |

**ITEM 8**

## Manure Storage Indemnity Fee Form for Construction Permits

| CASHIER'S USE ONLY |
|---|
| 0474-542-474A-0431 |
| Facility ID # |
| County |

Credit fees to: JT Allens Grove Pork LLC

Name of operation: JT Allens Grove Pork LLC

**INSTRUCTIONS:**

1) Use the 'Total Proposed AUC' from column b), Table 1 (page 4), to select the appropriate fee line in the table below. The 'Total Proposed AUC' is the AUC of the operation.
2) Select the animal specie and row number (see examples). Enter the 'New AU' from column c), Table 1 (page 4). The 'New AU' is the number of AU to be added to an existing operation or being proposed with a new operation. **Note**: If the "Existing AUC" (column a) is 500 AU or less, enter the "Total proposed AUC" (column b) in "New AU" (column c).
3) Multiply the 'New AU' by the appropriate 'Fee per AU'. The resulting number is the indemnity fee due.

- **Example 1**: An existing swine operation is expanding from an 'Existing AUC' of 1,000 AU to a 'Total Proposed AUC' of 1,800 AU, and has previously paid an indemnity fee for the existing 1,000 AU. Calculate the indemnity fee as follows: The 'Total Proposed AUC' is between 1,000 AU and 3,000 AU; the animal specie is other than poultry; enter 800 AU in the 'New AU' column, row 4, and multiply it by $ 0.15:
  (800 AU) x ($ 0.15 per AU) = $ 120.00
- **Example 2**: An existing poultry operation is expanding from an 'Existing AUC' of 250 AU to a 'Total Proposed AUC' of 2,000 AU and has not paid the indemnity fee for animals housed in the existing buildings. Calculate the indemnity fee as follows: The 'Total Proposed AUC' is between 1,000 AU and 3,000 AU; the animal specie is poultry and the indemnity fee has not previously been paid, enter 2,000 AU in the 'New AU' column on row 3, and multiply it by $0.06:
  (2,000 AU) x ($ 0.06 per AU) = $ 120.00
- **Example 3**: If you are proposing a new swine confinement feeding operation with a 'Total Proposed AUC' of 3,500 AU, enter 3,500 AU in the 'New AU' column, row 6 and multiply it by $ 0.20:
  (3,500 AU) x ($ 0.20 per AU) = $ 700.00
- **Example 4**: If you are applying for a construction permit but you are not increasing the AUC of the operation, and has previously paid the applicable indemnity for the animals housed in the existing buildings, there is no indemnity fee due ($ 0.00). If no indemnity fee is due, do not submit this page.

**Indemnity Fee Table:**

| Total Proposed AUC - (After permit) from column b), Table 1 | Row | Animal species | New AU - from column c), Table 1 | x | Fee per AU | Indemnity Fee |
|---|---|---|---|---|---|---|
| Less than 1,000 AU | 1 | Poultry | | x | $ 0.04 = | |
| | 2 | Other | | x | $ 0.10 = | |
| 1,000 AU or more to less than 3,000 AU | 3 | Poultry | | x | $ 0.06 = | |
| | 4 | Other | 1920 | x | $ 0.15 = | 288.00 |
| 3,000 AU or more | 5 | Poultry | | x | $ 0.08 = | |
| | 6 | Other | | x | $ 0.20 = | |

**ITEM 8 (Cont.)**

## Filing Fees Form for Construction Permits

| CASHIER'S USE ONLY |
|---|
| 0473-542-473A-0431 |
| 0474-542-474A-0431 |
| Facility ID # |
| County |

Credit fees to: JT Allens Grove Pork LLC

Name of operation: JT Allens Grove Pork LLC

**INSTRUCTIONS:**

1. If the operation is applying for a construction permit enclose a payment for the following:
   ☒ Construction application fee $250.00.
   (Note: This fee is non-refundable)
2. A manure management plan must be submitted with a filing fee.
   ☒ Manure management plan filing fee $250.00
   (Note: This fee is non-refundable)
3. If this is a change in ownership then indemnity fees must also be paid on the current (existing) total AUC at the appropriate rate on page 7.
   ☐ Indemnity fee due to ownership change $ _____
4. Total filing fees: Add the fees paid in items 1, 2 and 3 (above): $ 500.00

**SUMMARY:**

| | | |
|---|---|---|
| - Manure Storage Indemnity Fee (see previous page) to be deposited in the Manure Storage Indemnity Fee Fund (474) | $ | 288.00 |
| - Total filing fees (see item 4 on this page) to be deposited in the Animal Agriculture Compliance Fund (473) | $ | 500.00 |
| **TOTAL DUE:** | $ | 788.00 |

Make check payable to: Iowa Department of Natural Resources or Iowa DNR; and send it along with the construction application documents (See Submittal Checklist No. 1 or 2, pages 10-15.) Note: Do not send this fee to the county.

ITEM 9

# COUNTY VERIFICATION RECEIPT OF DNR CONSTRUCTION PERMIT APPLICATION

This form provides proof that the County Board of Supervisors has been provided with a complete copy of the construction permit application documents (everything except the fees) for the confinement feeding operation or a complete MMP has been provided to the County because manure will be applied in that county:

Applicant: JT Allens Grove Pork LLC Telephone: 563-285-4006

Name of operation: JT Allens Grove Pork LLC

| Location: | NE | SE | 32 | T80N R2W | Allens Grove | Scott |
|---|---|---|---|---|---|---|
| | (1/4 1/4) | (1/4) | (Section) | (Tier & Range) | (Name of Township) | (County) |

Documents being submitted to the county:

- [x] Construction permit application form: submit items 1 to 9 (see Submittal Checklist No. 1 or 2)
- [x] Attachment 1 - Aerial photos: Must clearly show the location of the proposed confinement feeding operation structure[1] and that all the separation distances are met, including those claimed for points in the master matrix (if applicable).
- [x] Attachment 2 - Statement of design certification, submit any of the following (see Checklist No. 1 or 2):
  - [x] Construction Design Statement form
  - [ ] Professional Engineer (PE) Design Certification form
  - [ ] Engineering report, construction plans and technical specifications
  - [ ] In addition, if proposing an unformed manure storage structure[3] or an egg washwater storage structure submit documentation required in Addemdum "A" of this construction application form.
- [x] Attachment 3 - Manure management plan.
- [x] Attachment 4 - Master Matrix (if required). You must include supporting documents (see Checklist No. 1 or 2)

## THIS SECTION IS RESERVED FOR THE COUNTY

As soon as DNR receives a construction permit application, the DNR will fax your County Auditor a "Courtesy reminder letter" explaining what actions your County Board of Supervisors must complete and the deadlines.

Public Notice is required for **all** construction permit applications, including those applications not required to be evaluated with the master matrix and applications in counties not participating in the Master matrix.

Counties participating in the master matrix: the county's master matrix evaluation and county's recommendation is required for the following cases:

- A new confinement feeding operation that is applying for a construction permit
- An existing confinement feeding operation that was first constructed on or after April 1, 2002 that is applying for a construction permit.
- An existing confinement feeding operation that was first constructed prior to April 1, 2002 that is applying for a construction permit with an animal unit capacity (AUC) is 1,667 animal units (AU) or more.

I have read and acknowledge the county's duty with this construction permit application, as specified in 567 IAC 65.10 and Iowa Code 459.304. On behalf of the Board of Supervisors for:

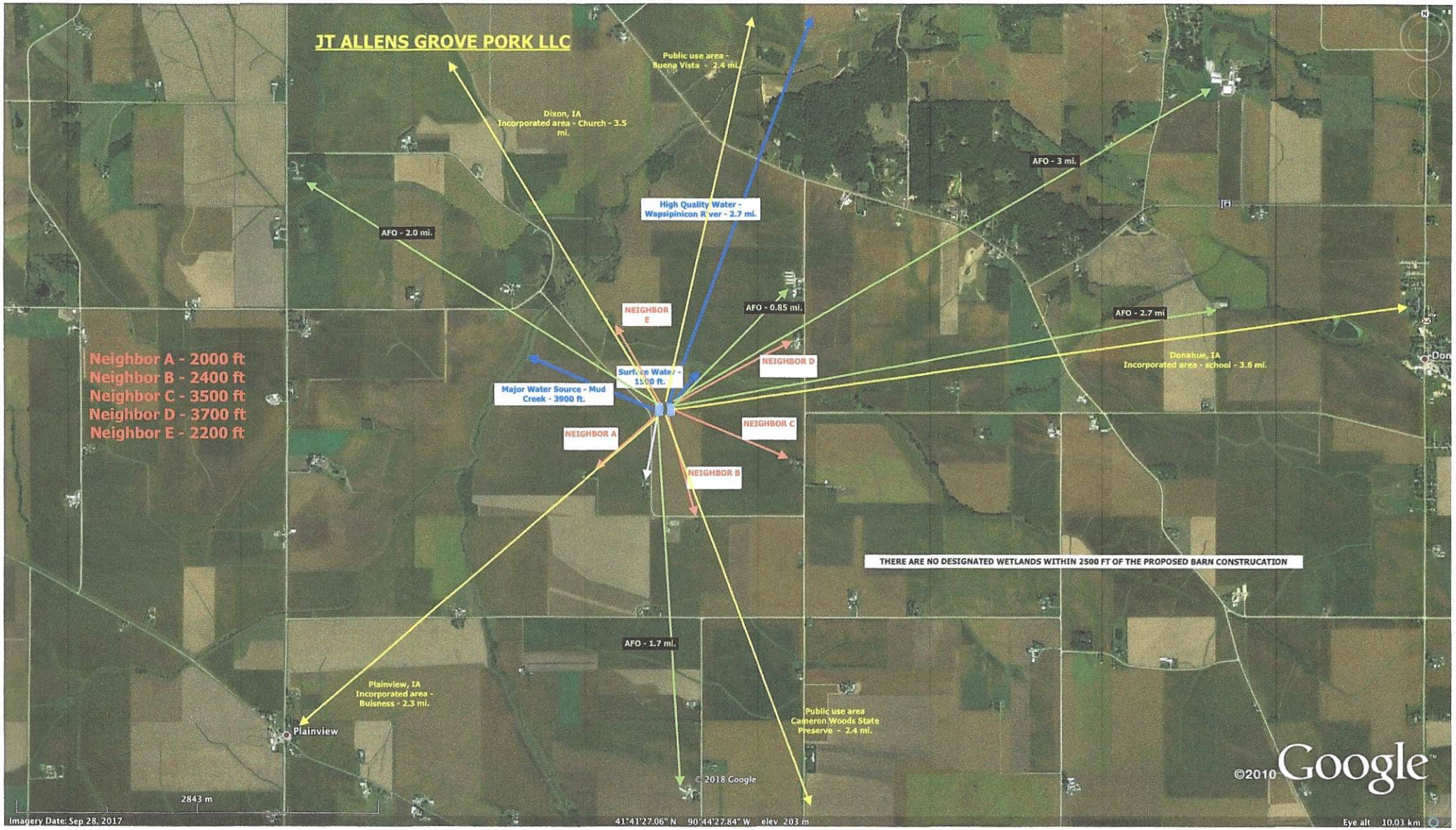
COUNTY: _____

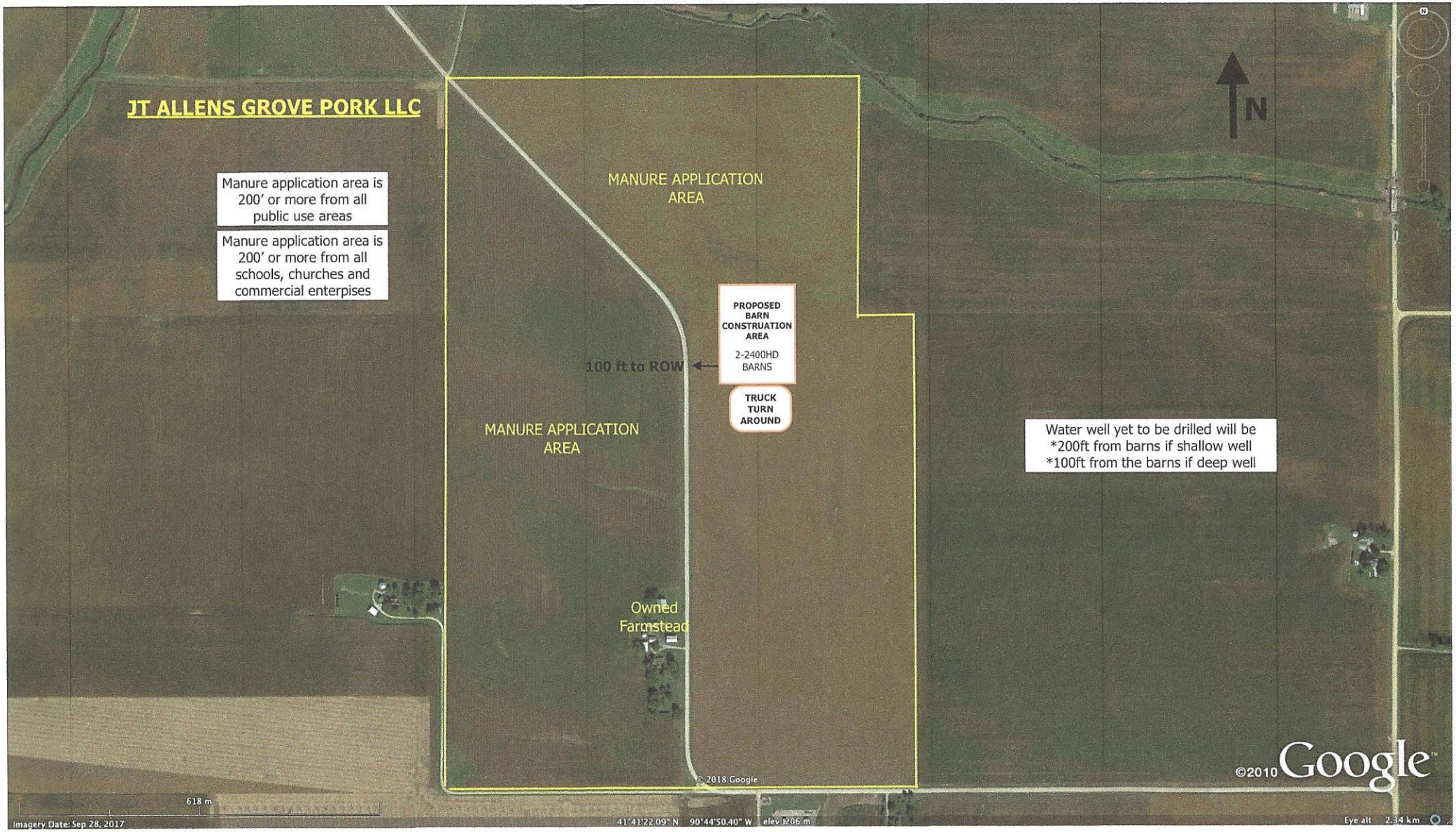
NAME: _____

TITLE: _____
(Member of the County Board of Supervisors or its designated official/employee)

Date: _____ , 20 _____ .

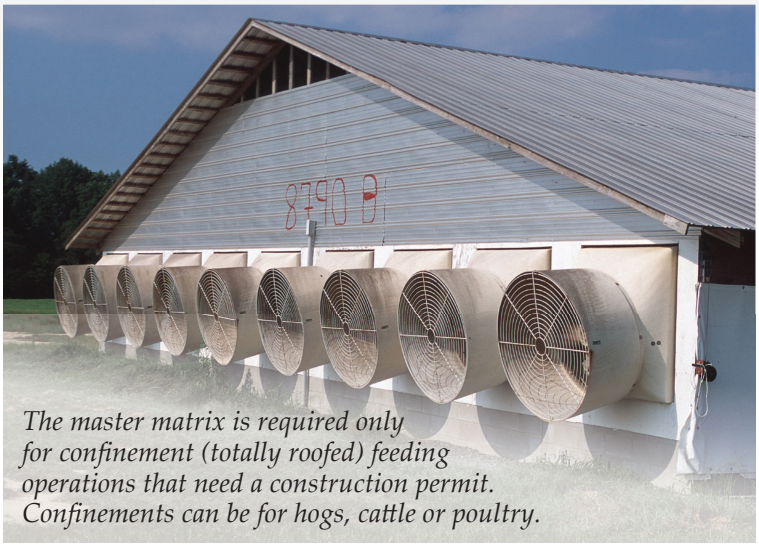
If you do not receive the courtesy reminder letter within a reasonable time, or if you have any questions, please contact the animal feeding operations (AFO) Program at (712) 262-4177 or visit www.IowaDNR.gov


JT ALLENS GROVE PORK LLC
Public use area - Buena Vista - 2.4 mi.
Dixon, IA Incorporated area - Church - 3.5 mi.
AFO - 3 mi.
High Quality Water - Wapsipinicon River - 2.7 mi.
AFO - 2.0 mi.
NEIGHBOR E
AFO - 0.85 mi.
AFO - 2.7 mi
Donahue, IA Incorporated area - school - 3.6 mi.
NEIGHBOR D
Surface Water - 1500 ft.
Major Water Source - Mud Creek - 3900 ft.
NEIGHBOR A
NEIGHBOR C
NEIGHBOR B
Neighbor A - 2000 ft
Neighbor B - 2400 ft
Neighbor C - 3500 ft
Neighbor D - 3700 ft
Neighbor E - 2200 ft
THERE ARE NO DESIGNATED WETLANDS WITHIN 2500 FT OF THE PROPOSED BARN CONSTRUCATION
AFO - 1.7 mi.
Plainview, IA Incorporated area - Buisness - 2.3 mi.
Plainview
Public use area Cameron Woods State Preserve - 2.4 mi.
© 2018 Google
©2010 Google
2843 m
Imagery Date: Sep 28, 2017
41°41'27.06" N 90°44'27.84" W elev 203 m
Eye alt 10.03 km


JT ALLENS GROVE PORK LLC
Manure application area is 200' or more from all public use areas
Manure application area is 200' or more from all schools, churches and commercial enterpises
MANURE APPLICATION AREA
PROPOSED BARN CONSTRUATION AREA
2-2400HD BARNS
100 ft to ROW
TRUCK TURN AROUND
MANURE APPLICATION AREA
Water well yet to be drilled will be
*200ft from barns if shallow well
*100ft from the barns if deep well
Owned Farmstead
N
© 2018 Google
©2010 Google
618 m
Imagery Date: Sep 28, 2017
41°41'22.09" N 90°44'50.40" W elev 1206 m
Eye alt 2.34 km

# Construction Permit Applications and the Master Matrix

ENVIRONMENTAL SERVICES DIVISION | WWW.IOWADNR.GOV



*The master matrix is required only for confinement (totally roofed) feeding operations that need a construction permit. Confinements can be for hogs, cattle or poultry.*

## Construction Permits

### The Application

This fact sheet is designed to assist county supervisors as they process construction permit applications for confinement feeding operations, especially those using the master matrix. The state of Iowa requires construction permits for confinement animal feeding operations of 1,000 animal units (AU) or more. As an example 1,000 AU is 2,500 head of finishing swine, 1,000 head of beef cattle or 100,000 broiler chickens. The construction permit applicant must deliver, either in person or by certified mail, a copy of the complete permit application to the county.

Counties are required by law to perform some actions regarding the proposed application. A complete permit application should include the construction permit application form, a construction design statement (CDS) or Professional Engineer (P.E.) certification form, a manure management plan (MMP) and master matrix, if applicable.

### County Responsibilities

When the applicant delivers the application, the county needs to perform the following steps:

**1) Document:** Review the application to be sure all the components of the application are included as checked off on the County Receipt form. Time and date stamp the application. Sign and date the County Verification of Receipt form. The applicant is responsible for sending this receipt along with their application to the Iowa Department of Natural Resources (DNR).

**2) Provide Public Notice:** The DNR logs in the project after formally receiving the construction permit application and the completed County Verification of Receipt form. The DNR then sends a notice to the county by fax and email with instructions to the county. If the application is incomplete, the DNR will request additional material from the applicant.

If there are significant changes, the DNR will request a new county receipt. In this case, several weeks may pass before the DNR sends out the notice to the county. (See sample notice.)

All counties must publish a public notice in the paper, regardless if the master matrix was adopted or not. Publish the notice after the DNR sends an official instruction notice to the county. The DNR's notice will include a sample public notice and provide due dates for completing actions. The county will need to act quickly because public notice is required within 14 days of the county receiving the DNR's official instruction notice. The public notice must include all of the following:

a) The name of the person applying to receive the construction permit.

b) The name of the township where the confinement feeding operation structure is proposed.

c) Each type of confinement feeding operation structure proposed.

d) The animal unit capacity of the confinement feeding operation if the construction permit is approved.

e) The time and place where the public may examine the application as provided in Iowa Code section 22.2 (the Public Records Law).

f) Procedures for providing public comments to the board as provided by the board.

**3) Score the Master Matrix:** Each year every county has the opportunity to adopt a "construction evaluation resolution" allowing the county to actively participate in the construction permit application process. The resolution is commonly referred to as the master matrix. The

master matrix is a list of additional conditions that an applicant can choose from in order to receive points. The applicant must have 440 out of 880 available points, with one-fourth of the points in three categories in order to obtain a permit. The conditions are intended to lessen the potential impact of the confinement facility to the surrounding area.

The county is required to score the master matrix items claimed by the applicant to see if the claimed points appear acceptable. See the DNR fact sheet "Details of Scoring the Master Matrix " for a more comprehensive master matrix discussion.

**4) Visit the Site:** The local DNR field office will contact the county designee and invite them to the site survey at the proposed site. This usually occurs within 30 days of the DNR receiving the application. During the site visit, DNR staff will verify the required separation distances.

**5) Keep a Copy for Public Inspection:** Keep a copy of the construction permit application on file for public inspection. The application includes the manure management plan and the master matrix.

**6) Provide Proof of Publication:** If the proposed project does not require a master matrix, then only a proof of publication must be sent to the DNR.

Send a copy of the proof of publication to:

Paul Petitti
Iowa DNR
1900 N Grand Avenue
Gateway N, Suite E17
Spencer, IA 51301
Phone: 712-262-4177
Fax: 712-262-2901
Paul.Petitti@dnr.iowa.gov

**7) Provide a Public Hearing (optional):** The county may hold a public hearing for any permit application (master matrix or non-master matrix project). The time and place should be on the public notice. The county may submit any comments from the public hearing to the DNR.

**8) Make a Recommendation:** On a master matrix project, the county must submit its recommendation to either approve or disapprove the permit application. This recommendation is independent of the county's master matrix scoring. More information can be found in the DNR fact sheet "Details of Scoring the Master Matrix."

**9) Submit to the DNR:** The county must submit the following documents to the DNR's Paul Petitti at the address listed above within 30 days of the county receiving the DNR official instruction notice. It must be received by the DNR (not just postmarked) within the 30-day time limit:

a) The written county recommendation to approve or disapprove the permit application, regardless of the master matrix scoring.

b) The board's scoring of the matrix along with documentation and justification if points are denied. If the county agrees with the scoring submitted by the applicant, a sentence to that effect is acceptable and no matrix scoring needs to be submitted.

c) The proof of publication.

d) The county may also submit any other relevant documents, including those received by interested parties.

Once all materials are received, the DNR begins reviewing the construction permit application. Find more information on the DNR website.

| Important Links | Iowa DNR Field Offices |
|---|---|
| DNR Animal Feeding Operations<br>www.iowadnr.gov/afo/<br><br>Iowa State Association of Counties<br>www.iowacounties.org/News/Topics%20of%20Interest/Matrix%20Information/NewMasterMatrix.htm<br><br>Questions: Call Gene Tinker at 563-927-2640 or 515-210-1593, or email Kristi Harshbarger at kharshbarter@iowacounties.org. | **Northeast** \| Manchester \| 563-927-2640<br>**North central** \| Mason City \| 641-424-4073<br>**Northwest** \| Spencer \| 712-262-4177<br>**Southwest** \| Atlantic \| 712-243-1934<br>**South central** \| Des Moines \| 515-725-0268<br>**Southeast** \| Washington \| 319-653-2135 |





2002 revised November 2012

# Details of Scoring
# The Master Matrix



*The DNR field office does a site inspection prior to approving or denying a construction permit application. Counties with a master matrix can accompany DNR staff on the inspection. Find more about construction permits and the master matrix on the DNR website:* ***www.iowadnr.gov/afo/.***

## Construction Permits

### The Master Matrix

The master matrix is a process that the county can choose to participate in, which should result in a proposed confinement feeding operation adhering to higher standards than required by law. A confinement feeding operation required to use the master matrix will likely have increased separation distances to objects and a more conservative manure management plan (MMP). The master matrix is a tool for the county Board of Supervisors to provide input into a proposed confinement feeding operation.

Every year all counties in Iowa have the opportunity to enroll in the master matrix by adopting a Construction Evaluation Resolution. All counties are notified in December to enroll for the following calendar year. Counties that enroll have the responsibility to evaluate the completed master matrix by each construction permit applicant during that year.

Not all permit applications require a master matrix:

- If the county did not enroll for that year, then no master matrix is required.
- If an existing confinement facility is expanding, and the original construction on the site was before April 1, 2002, and the proposed total animal unit capacity after expansion is 1,667 AU or less, then no master matrix is required.

The master matrix consists of 44 criteria which further describe the potential site for the proposed confinement facility. The applicant may qualify for any or all criteria and be awarded points for each criterion. An applicant chooses which criteria they would like to claim points on. An applicant must score an overall minimum point total of 440 points as well as one-fourth of the available point total in three subcategories (Air, Water and Community).

If a construction permit application containing a master matrix is received by the county and the instruction notice is received from the DNR, then the county is required to review and score the master matrix items where points were claimed by the applicant. Some of the criteria require documentation or proof that points can be claimed by the applicant. It is the duty of the county to examine the documentation while scoring the master matrix. The county Board of Supervisors may select a representative of the county (zoning official, sanitarian, county engineer or supervisor, etc.) to review and score the master matrix. The county may elect to review and score the master matrix as a group. Scoring the master matrix will require time and effort.

The county may elect to review the master matrix using the documentation (e.g. maps) submitted by the applicant or the county may choose to use computer mapping programs to verify distances claimed by the applicant or measure and confirm any distances at the site survey. The local DNR field office will notify the county representative prior to conducting the site survey. This usually occurs within 30 days of the DNR receiving the application. During the site visit, DNR staff will verify the separation distances required by state law for all construction permit applications.

The county designee may accompany the local DNR field office during the site survey to verify additional matrix separation distances claimed by the applicant.

It is the county's obligation to verify the additional distances claimed by applicant in the matrix and verify objects such as a business or residence. Some master matrix items may require the county to search websites for information while other items may simply require the county to review documentation provided by the applicant and either agree or disagree on the content.

It is the county's obligation to score the matrix in a professional manner. The scoring must be objective. Evaluate and score all matrix items where the applicant claimed points. Award appropriate points for each matrix item where the applicant claimed points. Conversely, deny or reduce points only when you have a reason, e.g., distance error, lack of sufficient documentation such as a design, operation and maintenance plan.The county should not award or deny points arbitrarily. The county cannot award points for items the applicant did not score.

Find a blank copy of the master matrix on the DNR website at www.iowadnr.gov/Environment/LandStewardship/AnimalFeedingOperations/Confinements/ConstructionRequirements/Permitted/MasterMatrix.aspx

Counties may print this copy, fill out the county's scores, submit it to the DNR. The county should also submit its recommendation, proof of publication and any documentation on specific master matrix items that are denied or challenged.

## County Approval

If the county agrees with the master matrix scoring as submitted by the applicant or scores the matrix with a passing score, the county must still submit to the DNR a recommendation to approve or disapprove the construction permit application.

The DNR shall preliminarily approve the construction permit application provided the application and siting of the building(s) comply with the requirements of Chapter 567 IAC 65 and Iowa Code Chapter 455B. If the construction application does not meet the requirements of Chapter 567 IAC 65 and Iowa Code Chapter 455B, regardless of the outcome of the master matrix, the DNR shall preliminarily disapprove the permit application.

## Failing Score on Matrix

If the county's scoring results in a failing score of the master matrix then the county must still submit to the DNR a recommendation to approve or disapprove the construction permit application.

The DNR shall preliminarily disapprove the application if the construction application does not meet the requirements of state law (Chapter 567 Iowa Administrative Code 65 and Iowa Code Chapter 455B, regardless of the county's scoring of the master matrix. If the application meets the requirements of state law, the DNR will conduct an independent evaluation of the master matrix points claimed by the applicant. If the DNR's evaluation shows an acceptable score, the DNR shall preliminarily approve the application. If the DNR's evaluation indicated the score is unacceptable, the DNR shall preliminarily disapprove the application.

## Appeals

Both the applicant and county may contest a preliminary decision to approve or disapprove the construction permit application by demanding a hearing with the state Environmental Protection Commission. The preliminary permit and preliminary denial letter will contain specific instructions for appeal.

## Final Decision

A preliminary approval or disapproval becomes final after 14 days if no appeal is submitted.

### Important Links

DNR Animal Feeding Operations
www.iowadnr.gov/afo/

Iowa State Association of Counties
www.iowacounties.org/News/Topics%20of%20Interest/Matrix%20Information/NewMasterMatrix.htm

Questions: Call Gene Tinker at 563-927-2640 or 515-210-1593, or email Kristi Harshbarger at kharshbarter@iowacounties.org.

### Iowa DNR Field Offices

**Northeast** | Manchester | 563-927-2640
**North central** | Mason City | 641-424-4073
**Northwest** | Spencer | 712-262-4177
**Southwest** | Atlantic | 712-243-1934
**South central** | Des Moines | 515-725-0268
**Southeast** | Washington | 319-653-2135





2002 revised November 2012