

PLANNING & DEVELOPMENT

500 West Fourth Street
Davenport, Iowa 52801-1106
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Timothy Huey
Director

To: Dee F. Bruemmer, County Administrator
From: Brian McDonough, Planning & Development Specialist
Date: September 1, 2015
Re: **Public hearing on the Construction Permit Application of Tom Dittmer/Jeff Paulsen, d.b.a. J2T2, LLC for the expansion of an existing swine concentrated animal feeding operation located in the Part of the NE¼NE¼ of Section 17, T79N, R1E (Cleona Township).**

The Iowa DNR submitted the Construction Permit Application to Scott County on August 27th. Scott County has 30 days from this receipt to submit comments and a recommendation on the application back to the IDNR. Notice of the receipt of application and notice of the public hearing on September 10th will be published in this week's North Scott Press and Quad City Times. The Board will hold a public hearing to accept any public comments on September 10th, and will consider a resolution recommending on the application on September 24th. This will allow the resolution and recommendation to be forwarded to the Iowa DNR on Friday, September 25th and within the required 30 day timeframe for review.

The request is for an expansion of an existing finishing hog operation. Approval of this request by the IDNR would allow for a doubling of the current capacity of this facility from 2,400 head of finishing hogs to 4,800 head, including the construction of a new confinement structure. Planning & Development staff will review the submitted Master Matrix and construction design statement for compliance. The Health Department will assist with review of the manure management plan.

Staff will also mail notice of the public hearing to surrounding property owners within 500 feet of the site. We will also report any public comments received to date at next week's Committee of the Whole and Thursday Board meetings. Prior to any Board action on September 24th staff will have conducted a site visit and will give a full review of the Master Matrix scoring.

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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 EXPANSION OF AN EXISTING CONCNETRATED ANIMAL FEEDING OPERATION

Public Notice is hereby given that the Scott County Board of Supervisors will hold a public hearing on **Thursday, September 10, 2015**, in the Board Room in the Scott County Administrative Center, 600 West fourth 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 Thomas Dittmer and Jeff Paulsen, d.b.a. J2T2, LLC for the expansion of an existing swine finishing operation located in Part of the NE¼ NE¼ of Section 17, T79N, R1E (Cleona Township).

The existing operation has a capacity of 2,400 head, or an animal unit capacity (AUC) of 960. This State Construction Permit would allow for a doubling of that capacity to 4,800 head at an AUC of 1920, including the construction of a new 240' x 80' wean to finish barn at the existing site. The new building would be constructed as a formed manure storage structure with an eight (8) foot deep concrete pit below the slatted floor.

A copy of the application is on file with the Scott County Planning and Development Department is available for review prior to the hearing during normal working hours 8:00 a.m. to 4:30 p.m., Monday through Friday. If you have questions or want further information please call or write the Planning and Development Department, 500 West Fourth 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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Timothy Huey
Director

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

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

- Name of Applicant: Thomas Dittmer/Jeff Paulsen, d.b.a. J2T2, LLC.
Address 12090 240th Street, Eldridge, IA 52748 &
23536 20th Avenue, Stockton, IA 52769
- Location of operation: Part of the NE¹/₄ NE¹/₄, Section 17, T79N, R1E (Cleona Township)
- Description of application: There is an existing swine finishing operation at this location with a capacity of 2,400 head, or an animal unit capacity (AUC) of 960. This State Construction Permit would allow for a doubling of that capacity to 4,800 head at an AUC of 1920, including the construction of a new 240' x 80' wean to finish barn. The new building would be constructed as a formed manure storage structure with an eight (8) foot deep concrete pit below the slatted floor.
- 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 500 West 4th Street, Davenport, Iowa and is available for review by the public during normal working hours 8:00 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 Friday, September 18, 2015 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 Director
500 West 4th Street
Davenport, Iowa 52801 (563) 326-8643



Construction Design Statement (CDS)

Instructions:

1. This form is for new or expanding confinement feeding operations with an AUC¹ of more than 500 AU, not required to have a professional engineer (PE)², that are proposing to construct a formed manure storage structure³.
2. Complete and submit Sections 1, 2 and 3 (pages 1 to 5).
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 structures⁴.
4. Mail only pages 1 to 5, and page 6 (if applicable) as instructed on page 6. Do not mail the remainder of this form.
5. If the site-specific design is sealed by a PE², 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: J2T2 LLC Facility ID No. : _____
 Location: NE NE 17 T79N-R01E Cleona Scott
(¼ ¼) (¼) (Section) (Tier & Range) (Name of Township) (County)

B) Description of the proposed formed manure storage structure³. Include dimensions (length, width, or diameter, depth). Indicate if it is aboveground or belowground; covered or uncovered, made of concrete or steel. If necessary attach more pages:

81'2" x 241'4" x 8' Deep, Belowground, Covered, Concrete Pit Foundation

C) Karst Determination: Go to <http://www.iowadnr.gov>, select the link to 'Environment' then click on 'Mapping and GIS'. then click on AFO Siting Atlas. Click on the red push pin icon to enter a legal description of the proposed location. Make sure the karst box is checked in the left legend. 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).

D) Alluvial Soils Determination: Go to <http://www.iowadnr.gov>, select the link to 'Environment' then click on 'Mapping and GIS' then click on AFO Siting Atlas. Click on the red push pin icon to enter a legal description of the proposed location. Make sure the alluvial box is checked in the left legend. If you cannot access the map, or if you have questions about this issue, contact DNR Flood Plain at 1-866-849-0321. 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.

J2T2 LLC by Tom Wilton
 Owner's Name (print)

J2T2 LLC by Tom Wilton
 Owner's Signature

8/25/15
 Date

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.

Section 3 - Construction design standards: The person responsible for constructing the formed manure storage structure(s)³ must complete pages 2 to 5.

A) Liquid and semi-liquid manure: The proposed formed manure storage structure³ 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 structure³ 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.

C) Details of the proposed design: Submit an additional completed copy of this page 2 for each formed manure storage structure³ that have different dimensions. Complete all of the following information:

Number of buildings: 1 Building name: J2T2 LLC

Dimensions of proposed formed manure storage structure³

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

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 structures³ 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 <u>not</u> 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 <u>not</u> 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 structure³, 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 PE², 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 structure³ 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: J2T2 LLC County: Scott
 Owner's name: J2T2 LLC
 will be constructed in accordance with these minimum requirements. Included with this certification are:

- Page 2, for each formed manure storage structure³ that have different dimensions
- Pages 3 to 5 (applicable sections)
- Other documents (specify): Iowa DNR Alluvial & Karst Soils Map and DNR Correspondence Letter from Floodplains Dept.

<u>Darrin Vittetoe</u> (Print name)	<u></u> (Signature)	<u>08-22-15</u> (Date)
<u>Custom Builders Inc.</u> (Company)	<u>209 W. South St. Tipton, Ia. 52772</u> (Address)	<u>563-886-6196</u> (Phone No.)

(See page 6 for mailing instructions)

H) Upgraded Concrete Standards Certification: If "Yes" was checked in Section 1.C (page 1) --site exhibits karst terrain or drains into a known sinkhole-- 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 or two test pits, equally spaced within 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.)

(See page 6 for mailing instructions)

Section 4 - Drainage Tile Certification: Required only if applying for a construction permit and constructing three or more confinement feeding operations structures⁴. This page must be completed and signed by the person responsible for excavating the confinement feeding operation structure⁴:

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 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.

"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 structures⁴ at:

Name of operation: _____ County: _____

Owner's name: _____

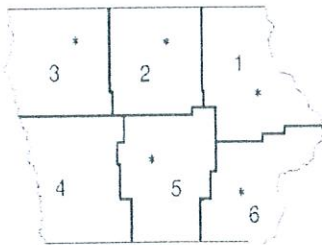
will not impede the drainage of established drainage tile lines which cross their property lines and if construction disturbs drainage tile lines, I will take the necessary measures to reestablish drainage and, upon completion of construction, file a statement that those measures were taken to reestablish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

(Print name) (Signature) (Date)

(Company) (Address) (Phone No.)

Mailing Instructions: Mail only pages 1 to 5, and page 6 (if applicable) of this CDS according to the following:

- Operations not needing a construction permit (AUC¹ between 501 and 999 AU and constructing a formed manure storage structure³) 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 1 909 W Main St Ste 4 Manchester, IA 52057 (563) 927-2640	Field Office 3 1900 N Grand Ave Spencer, IA 51301 (712) 262-4177	Field Office 5 7900 Hickman Rd Ste 200 Windsor Heights, IA 50324 (515) 725-0268
Field Office 2 2300 15th St SW Mason City, IA 50401 (641) 424-4073	Field Office 4 1401 Sunnyside Ln Atlantic, IA 50022 (712) 243-1934	Field Office 6 1023 W Madison Washington, IA 52353 (319) 653-2135

- If a construction permit is required (AUC¹ = 1,000 AU or more and constructing a formed manure storage structure³), 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/>.



STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR
KIM REYNOLDS, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
CHUCK GIPP, DIRECTOR

August 17, 2015

J2T2 LLC
C/O DARRIN VITTETOE
CUSTOM BUILDERS, INC.
209 W. SOUTH STREET
TIPTON, IA 52772

RE: Proposed Confinement Feeding Operation; J2T2 LLC Facility; Flood Plain Determination (Unnamed Tributary to Mud Creek)
NE1/4 of the NE1/4 of Section 17, T79N, R01E; Scott County, Iowa (WR 82313)

Dear Mr. Vittetoe:

This letter is in response to your request for a flood plain determination for the above project. The Department has reviewed the information submitted and concludes that the proposed confinement animal feeding operation will not be located on the "one hundred year flood plain".

This letter only pertains to the determination of whether the project site is on the "one hundred year flood plain" according to 567 Iowa Administrative Code (IAC) 65.7(9), and **is not** final clearance for construction. All other federal, state and local permits, clearances and approvals must be obtained prior to construction. It is my understanding that the facility requires a construction permit from our Wastewater Permits Section because of the number of animal units. If you have not already done so, please contact Paul Petitti at 712-262-4177.

The owner is responsible for complying with all local, state and federal statutes, ordinances, rules and permit requirements applicable to the construction, operation and maintenance of the approved works. Please note that a Flood Plain Development Permit from the Department is not required according to 567 IAC 71, nor is an IDNR Sovereign Lands Construction Permit required. The project may require a Section 404 Permit from the Corps of Engineers, Rock Island District.

If you have any questions, please call me at 515-725-8347.

Sincerely,

A handwritten signature in black ink, appearing to read "Andrew Jensen".

Andrew Jensen, P.E.
Environmental Engineer
Flood Plain Management & Dam Safety Section

Copies -IDNR FO #6
-Mr. Paul Petitti, Animal Feeding Operation Program, IDNR FO #3,
-Mr. Ward Lenz; Rock Island District, U.S. Army Corps of Engineers; P.O. Box 2004; Rock Island, IL 61204-2004 (location map included)



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: J2T2 LLC by T-Dittmer (Signature) J2T2 by Tom Dittmer (Print name) Date: 8/25/15

Name of operation: Jeff Paulsen Facility ID No. 66929

Location of the operation: 23580 20th Ave
(911 address)
Stockton IA 52769
(Town) (State) (Zip)
NE 1/4 of the NE 17 T 79N R 1E Cleona Scott
(1/4 1/4) (1/4) (Section) (Tier & Range) (Township Name) (County)

Owner and contacts of the animal feeding operation:

Owner J2T2 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) 563-370-5129

Contract company (if applicable) Grandview Farms, Inc. Phone 563-285-4006
Address 12090 240th St. Eldridge, IA 52748

This manure management plan is for: (check one)
 existing operation, not expanding existing operation, expanding existing operation, new owner new operation

Construction and Expansion Dates: 2011 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 ₂ O ₅ ^c	gal/space/dy ^d	Days/yr Facility occupied	Annual Manure Produced ^e
Select production phas ▼			0	0	0.0		000
Select production phas ▼			0	0	0.0		000
Select production phas ▼			0	0	0.0		000
Wean/finish (dry feed)	4800	Deep pit	41	27	0.7	355	1,209,600
Total Gallons							1,209,600

Estimated annual animal production': ~4800 animals/year
Source of Manure Nutrient Content Data (standard tables, manure analysis, other): Manure anlysis from 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)^g

CB3) Corn-Soybean

(identify this application scenario by letter)

Method to determine optimum crop yield^h USDA Iowa Ag Statistics County yields ▼

Timing of application Fall

Method of application Knifed in or soil injection of liquid manure ▼

Application loss factor 0.98

If spray irrigation is used, identify method _____

Table 2. Manure nutrient concentration

Manure Nutrient Content (lbs/1000gal or lbs/ton)					
Manure Storage Structure(s) ^k		Deep pit			
Total N ^l	41	P ₂ O ₅		27	
%TN Available 1st year	80%	2nd year	20%	3rd year	
Available N 1st year ^m	32.1	2nd year ⁿ	8.0	3rd year ^o	0.0

Table 3. Crop usage rates^p

lb/bu or lb/ton	N	P ₂ O ₅
Corn	1.2 ▼	0.375
Soybean	3.8	0.8
Alfalfa	50	12.5
Other crop ▼	0	0

*Use blank space above to add crop not listed.

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

1	Applying Manure For (crop to be grown) ^q		Corn ▼	Soybean ▼	Com ▼	Soybean ▼
2	Optimum Crop Yield ^h	bu or ton/acre	235	57	235	57
3	P ₂ O ₅ removed with crop by harvest ^r	lb/acre	88.1	45.6	88.1	45.6
4	Crop N utilization ^s	lb/acre	282	217	282	217
5a	Legume N credit ^t	lb/acre	50.00	0	50	0
5b	Commercial N planned ^u	lb/acre	50		50	
5c	Manure N carryover credit ^v	lb/acre		45.5	0.0	45.5
6	Remaining crop N need ^w	lb/acre	182	171	182	171
7	Manure rate to supply remaining N ^x	gal/acre	5662	5323	5662	5323
8	P ₂ O ₅ applied with N-based rate ^y	lb/acre	153	144	153	144

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

9	Commercial P ₂ O ₅ planned ^z	lb/acre				
10	Manure rate to supply P removal ^{aa}	gal/acre	3264	1689	3264	1689
11	Manure rate for P based plan ^{bb}	gal/acre				
12	Manure N applied with P-based plan ^{cc}	lb/acre	0	0	0	0

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

13	Planned manure application rate ^{dd}	gal/acre	5662		5662	
----	---	----------	------	--	------	--

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.

(>5-10) Until December 31, 2008, P-based manure management while adopting practices to reduce P index to 5 or below.

(>10) No manure application until practices are adopted to reduce P index to 5 or below

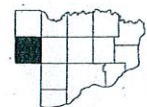
Davisson Tiling

1639 215th St. * Grand Mound, IA 52751
 563-593-4170

"Providing quality service for over 35 years"

- * Agricultural drainage installations
- * Tile repair
- * Backhoeing
- * Bulldozing

JLTZ LLC
 @ site location

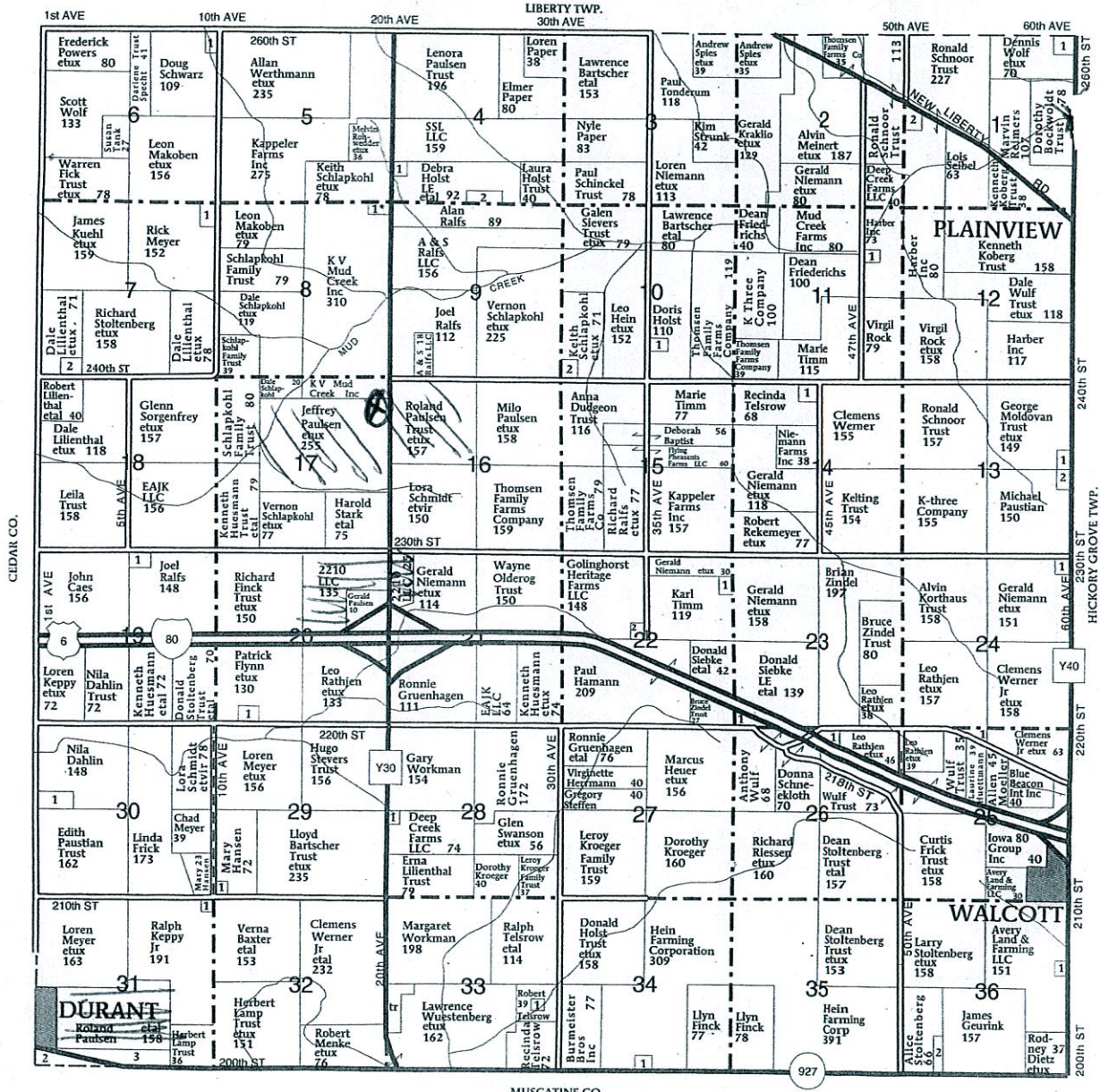


T-79-N

CLEONA PLAT

(Landowners)

R-1-E



CLEONA TOWNSHIP

- | | | | | | |
|--|---|---|--|--|--|
| <p>SECTION 1
 1. Kramer, Duane 7
 2. Marlof, Albert 12</p> <p>SECTION 4
 1. Kuehl, James 10
 2. Schinckel Trust, Paul 21</p> <p>SECTION 6
 1. Samuels Trust, Marsha 6</p> | <p>SECTION 7
 1. Hamilton, James 6
 2. Lilienthal, Robert 9</p> <p>SECTION 8
 1. Schlapkohl, Keith 5</p> <p>SECTION 10
 1. Hamrighausen, Carmen 6
 2. Wegener, Lucas 8</p> <p>SECTION 11
 1. KV Mud Creek Inc 6</p> | <p>SECTION 13
 1. Brewington, Richard 5</p> <p>SECTION 14
 1. Rochholz, Kenneth 9</p> <p>SECTION 19
 1. Jacobsen, Sarah 5</p> <p>SECTION 20
 1. Fick, Ronald 14</p> <p>SECTION 22
 1. Schueller, Daryl 8</p> | <p>SECTION 23
 1. Conner, Charles 5</p> <p>SECTION 24
 1. Meinert, Elaine 12</p> <p>SECTION 25
 1. Bolden, Eonell 5</p> <p>SECTION 26
 1. Rathjen, Leo 5</p> <p>SECTION 28
 1. Zindel, Brian 10</p> <p>SECTION 34
 1. Randall, Lee 5</p> | <p>SECTION 29
 1. Schemmel, Dean 5</p> <p>SECTION 30
 1. Keppy, Loren 14</p> <p>SECTION 31
 1. Schemmel, Thomas 7
 2. Durant Cemetery Assoc 5
 3. Paulsen, Darwin 14</p> <p>SECTION 33
 1. Nickerson, Gary 6</p> | <p>SECTION 34
 1. Williams, Larry 6</p> <p>SECTION 36
 1. Taylor, Robert 6
 2. Stoltenberg, Larry 11</p> |
|--|---|---|--|--|--|

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	Sediment Trap Factor	SDR x Factor	Buffer x Factor	Enrichment x Factor	STP x Factor	Erosion PI	RCN Factor	STP Factor	P App Factor	Runoff PI	Flow Factor	STP Factor	Tile/Sub PI	Recharge PI
East Farm --	5.60	1.00	0.43	1.00	1.10	0.84	2.20	1.40	0.22	0.07	0.39	1.00	0.08	0.08	2.68
Home Farm --	3.10	1.00	0.43	1.00	1.10	0.81	1.18	1.40	0.18	0.07	0.34	1.00	0.08	0.08	1.60

Jeff Paulsen Yield Calculation

I80 Paulsen

Soil type	Acres	Corn Yield	Bushels
119	7.9	240	1896
119b	33.3	235	7825.5
120b	81.7	235	19199.5
133	3.3	210	693
1118	7.3	233	1700.9
1119	0.3	240	72
	133.8		31386.9
		Field Yield	235

CB3 5662 g/A

I80 East

Soil type	Acres	Corn Yield	Bushels
11b	0	221	0
119	10.5	240	2520
120b	0.8	235	188
133	15.5	210	3255
	26.8		5963
		Field Yield	223

CB1 5214 g/A

Home Place

Soil type	Acres	Corn Yield	Bushels
11b	22.3	221	4928.3
120b	13.9	235	3266.5
120c	12.6	228	2872.8
120c2	22.6	221	4994.6
133	23.3	210	4893
160	2.1	180	378
420b	24.2	235	5687
1118	17.1	233	3984.3
1119	90.4	240	21696
	228.5		52700.5
		Field Yield	231

CB2 5513 g/A

East Farm

Soil type	Acres	Corn Yield	Bushels
120b	90	235	21150
120c	31.2	228	7113.6
120c2	32.6	221	7204.6
	154		35468.2
		Field Yield	231

Map Unit Legend

Scott County, Iowa (IA163)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
120B	Tama silty clay loam, 2 to 5 percent slopes	90.0	58.9%
120C	Tama silty clay loam, 5 to 9 percent slopes	30.2	19.8%
120C2	Tama silty clay loam, 5 to 9 percent slopes, moderately eroded	32.6	21.3%
Totals for Area of Interest		152.8	100.0%

231 bu
average yield

Map Unit Legend

Scott County, Iowa (IA163)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
11B	Colo-Ely complex, 0 to 5 percent slopes	22.3	9.8%
120B	Tama silty clay loam, 2 to 5 percent slopes	13.9	6.1%
120C	Tama silty clay loam, 5 to 9 percent slopes	12.6	5.5%
120C2	Tama silty clay loam, 5 to 9 percent slopes, moderately eroded	22.6	9.9%
133	Colo silty clay loam, 0 to 2 percent slopes	23.3	10.2%
160	Walford silt loam, 0 to 2 percent slopes	2.1	0.9%
420B	Tama silty clay loam, benches, 2 to 5 percent slopes	24.2	10.6%
1118	Garwin silty clay loam, benches, 0 to 2 percent slopes	17.1	7.5%
1119	Muscatine silty clay loam, benches, 0 to 2 percent slopes	90.4	39.6%
Totals for Area of Interest		228.5	100.0%

*231 bu
average
yield*

Map Unit Legend

Scott County, Iowa (IA163)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
119 240	Muscatine silty clay loam, 0 to 2 percent slopes	7.9	5.9%
119B 235	Muscatine silty clay loam, 2 to 5 percent slopes	33.3	24.9%
120B 235	Tama silty clay loam, 2 to 5 percent slopes	81.7	61.1%
133 210	Colo silty clay loam, 0 to 2 percent slopes	3.3	2.5%
1118 233	Garwin silty clay loam, benches, 0 to 2 percent slopes	7.3	5.5%
1119 240	Muscatine silty clay loam, benches, 0 to 2 percent slopes	0.3	0.3%
5040	Orthents, loamy	0.0	0.0%
Totals for Area of Interest		133.8	100.0%

yield
per
map
unit

Land Application Agreement

Agreed this date 8-25-15 between J2T2 LLC, herein known as "producer" and Jeff Paulsen, herein known as "landowner."

The producer will apply manure generated at swine production facilities located at:
NE1/4 NE1/4 Section 17 T79N R1E Cleona Township, Scott County

The landowner acknowledges the use of 534 acres of land by the producer for the spreading of manure and such land is located at:
NW1/4 section 16 (East Farm), NE1/4 & N1/2 SE1/4 & E1/2 NW1/4 & SW1/4 section 17 (Home Place and Home Place 20), NE1/4 section 20 (180 Paulsen), NW1/4 NW1/4 section 21 (180 East). All located in Cleona Township, Scott County

This manure application agreement is for one year and will continue annually until a 120 day notice is given by one of the parties.

The manure will be applied in accordance with any and/or all conditions required by any and/or all of the confined feeding permits required or issued for this operation to the producer. The producer shall adhere to any and/or all of the set forth conditions for manure application on this parcel of land. The producer shall provide the following information to the landlord:

1. Manure tests results generated by an accredited testing facility.
2. Manure application logs documenting applied nutrients to this land.

The landowner shall provide the following information to the landlord:

1. Planned crop rotations.
2. Planned commercial fertilizer application.
3. Soil tests to meet producer MMP requirements.

Producer

Landowner

By: J2T2 LLC - Jeff Paulsen By: Jeff Paulsen

Date: 8-25-15 Date: 8-25-15

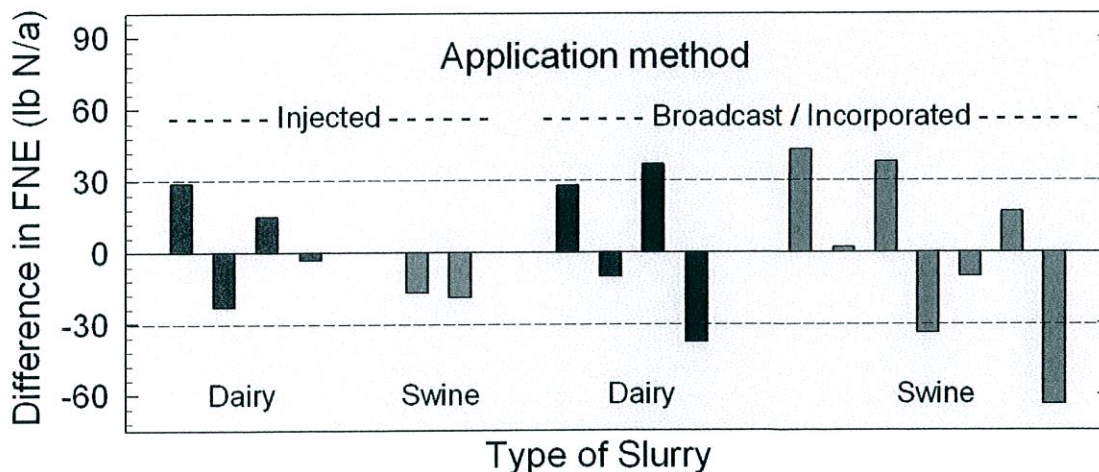
University of Minnesota Extension Fact Sheet

Nitrogen Availability from Liquid Swine and Dairy Manure: Results of On-Farm Trials in Minnesota

Manure nitrogen (N) availability depends on application method, as seen in general predictions by the University of Minnesota (UM Extension Bulletin WW-03553), because application method will influence ammonia loss (see Table 1). We evaluated the predictions of manure N availability on 13 Minnesota farms in 2005 and 2006 by measuring corn yield response to liquid swine and dairy manure. A short summary of results is presented here. Complete methods and results are found in UM Extension Bulletin 08583 of the same title.

Table 1. Predicted manure N loss and availability for the first and second year after application of dairy and swine manure. (Excerpted from UM Extension Bulletin WW-03553)

Type	Surface broadcast, followed by incorporation in			Direct injection		
	12 hours	< 4 days	4 days	Sweep	Knife	
	----- % Total N -----					
Dairy	<i>Loss</i>	10	20	40	5	10
	Year 1 availability	55	40	20	55	50
	Year 2 availability	25	25	25	25	25
Swine	<i>Loss</i>	10	30	50	5	15
	Year 1 availability	75	55	35	80	70
	Year 2 availability	15	15	15	15	15



Results: At individual sites, predictions for injected manure were more reliable than for broadcast-incorporated manure, since they were consistently within 30 lb N/acre of the measured fertilizer N equivalent. In contrast, more than one-half of the predictions for broadcast-incorporated manure were greater than 30 lb N/acre higher or lower than the measured value. (Columns in the figure that are above the zero line indicate that more manure N was available than predicted using Table 1; those under the zero line indicate that Table 1 over-predicted N availability.)

Conclusion: Predictions of N availability from injected liquid manure are more reliable than for broadcast-incorporated liquid manure. Direct injection by knives or sweeps is recommended to get the most predictable and highest value from manure N.

RUSLE2 Profile Erosion Calculation Record

Home Place - Paulsen

Inputs:

Location: Iowa\Scott County
 Soil: 420B Tama silty clay loam, benches, 2 to 5 percent slopes\Tama silty clay loam bench 100%
 Slope length (horiz): 200 ft
 Avg. slope steepness: 4.0 %

Management		Vegetation	Yield units	Yield (# of units)
CMZ 04\c.Other Local Mgt Records\CB JPaulsen		Corn, grain	bushels	206.00
CMZ 04\c.Other Local Mgt Records\CB JPaulsen		Soybean, mw 30 in rows	bu	56.000

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: 3.1 t/ac/yr
 Detachment on slope: 3.1 t/ac/yr
 Soil loss for cons. plan: 3.1 t/ac/yr
 Sediment delivery: 3.1 t/ac/yr

Crit. slope length: -- ft
 Surf. cover after planting: -- %

Date	Operation	Vegetation	Surf. res. cov. after op. %
10/15/0	Manure injector, liquid low disturb. 30 inch		88
10/31/0	Chisel, st. pt.		41
4/22/1	Cultivator, field 6-12 in sweeps		24
5/5/1	Planter, double disk opnr	Corn, grain	21
10/20/1	Harvest, killing crop 50pct standing stubble		88
4/22/2	Ripper, intra row		86
5/10/2	Planter, double disk opnr	Soybean, mw 30 in rows	85
10/5/2	Harvest, killing crop 30pct standing stubble		91

RUSLE2 Profile Erosion Calculation Record

East Farm - Paulsen

Inputs:

Location: Iowa\Scott County
 Soil: 120C2 Tama silty clay loam, 5 to 9 percent slopes, moderately eroded\Tama silty clay loam moderately eroded 100%
 Slope length (horiz): 200 ft
 Avg. slope steepness: 7.0 %

Management		Vegetation	Yield units	Yield (# of units)
CMZ 04\c.Other Local Mgt Records\CB JPaulsen	Soybean, mw 30 in rows	Corn, grain	bushels	195.00

53,000

Contouring: b. absolute row grade 3 percent

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: 5.6 t/ac/yr
 Detachment on slope: 5.6 t/ac/yr
 Soil loss for cons. plan: 5.6 t/ac/yr
 Sediment delivery: 5.6 t/ac/yr

Crit. slope length: 200 ft

Surf. cover after planting: -- %

Date	Operation	Vegetation	Surf. res. cov. after op. %
10/15/0	Manure injector, liquid low disturb.30 inch		87
10/31/0	Chisel, st. pt.		40
4/22/1	Cultivator, field 6-12 in sweeps		23
5/5/1	Planter, double disk opnr	Corn, grain	20
10/20/1	Harvest, killing crop 50pct standing stubble		87
4/22/2	Ripper, intra row		85
5/10/2	Planter, double disk opnr	Soybean, mw 30 in rows	84
10/5/2	Harvest, killing crop 30pct standing stubble		90

RUSLE2 Profile Erosion Calculation Record

180 East CB

Inputs:

Location	Soil	Slope length (horiz)	Avg. slope steepness, %
USA\Iowa\Scott County	Scott County, Iowa\133 Colo silty clay loam, 0 to 2 percent slopes\Colo Silty clay loam occasionally flooded 95%	200	1.0

Management	Vegetation	Yield units	# yield units, #/ac
managements\CMZ 04\c.Other Local Mgt Records\cb paulsen 2015	vegetations\Corn, grain	bushels	210.00
managements\CMZ 04\c.Other Local Mgt Records\cb paulsen 2015	vegetations\Soybean, mw 30 in rows	bu	61.000

Contouring	Strips/barriers	Diversion/terrace, sediment basin	Subsurface drainage	Adjust res. burial level	General yield level	Rock cover, %
a. rows up-and-down hill	(none)	(none)	(none)	Normal res. burial	Set by user	0

Outputs:

T value	Soil loss erod. portion	Detachment on slope	Soil loss for cons. plan	Sediment delivery	Net C factor	Net K factor	Crit. slope length	Surf. cover after planting, %
5.0	0.87	0.87	0.87	0.87	0.11	0.32	200	

Date	Operation	Vegetation	Surf. res. cov. after op, %
11/1/0	Manure injector, liquid high disturb.30 inch		37
11/1/0	Chisel, st. pt.		37
5/1/1	Disk, tandem heavy primary op.		11
5/1/1	Cultivator, field 6-12 in sweeps		11
5/1/1	Sprayer, pre-emergence		11
5/1/1	planter, double disk opnr	Corn, grain	11
6/7/1	Sprayer, post emergence and fert. tank mix		20
10/20/1	Harvest, killing crop 50pct standing stubble		88
5/10/2	Sprayer, pre-emergence		89
5/10/2	Planter, double disk opnr	Soybean, mw 30 in rows	89
6/7/2	Sprayer, post emergence		88
8/1/2	Sprayer, insecticide post emergence		71
10/10/2	Harvest, killing crop 20pct standing stubble		92

FUEL USE EVALUATION:

Fuel type for entire run	Equiv. diesel use for entire simulation	Energy use for entire simulation	Fuel cost for entire simulation, US\$/ac
(none)	9.7	1300000	0

SCI and STIR Output

Soil conditioning index (SCI)	SCI OM subfactor	SCI FO subfactor	SCI ER subfactor	Avg. annual slope STIR	Wind & irrigation-induced erosion for SCI, t/ac/yr
0.600	0.79	0.39	0.66	62.1	0

The **SCI** is the **Soil Conditioning Index** rating. If the calculated index is a negative value, soil organic matter levels are predicted to decline under that production system. If the index is a positive value, soil organic matter levels are predicted to increase under that system.

The **STIR** value is the **Soil Tillage Intensity Rating**. It utilizes the speed, depth, surface disturbance percent and tillage type parameters to calculate a tillage intensity rating for the system used in growing a crop or a rotation. STIR ratings tend to show the differences in the degree of soil disturbance between systems. The kind, severity and number of ground disturbing passes are evaluated for the entire cropping rotation as shown in the management description.

RUSLE2 Profile Erosion Calculation Record

180 Paulsen CB

Inputs:

Location	Soil	Slope length (horiz)	Avg. slope steepness, %
USA\Iowa\Scott County	Scott County, Iowa\119B Muscatine silty clay loam, 2 to 5 percent slopes\Muscatine Silty clay loam 95%	200	4.0

Management	Vegetation	Yield units	# yield units, #/ac
managements\CMZ 04\c.Other Local Mgt Records\cb paulsen 2015	vegetations\Corn, grain	bushels	235.00
managements\CMZ 04\c.Other Local Mgt Records\cb paulsen 2015	vegetations\Soybean, mw 30 in rows	bu	68.000

Contouring	Strips/barriers	Diversion/terrace, sediment basin	Subsurface drainage	Adjust res. burial level	General yield level	Rock cover, %
a. rows up-and-down hill	(none)	(none)	(none)	Normal res. burial	Set by user	0

Outputs:

T value	Soil loss erod. portion	Detachment on slope	Soil loss for cons. plan	Sediment delivery	Net C factor	Net K factor	Crit. slope length	Surf. cover after planting, %
5.0	2.6	2.6	2.6	2.6	0.093	0.28	200	

Date	Operation	Vegetation	Surf. res. cov. after op, %
11/1/0	Manure injector, liquid high disturb.30 inch		40
11/1/0	Chisel, st. pt.		40
5/1/1	Disk, tandem heavy primary op.		12
5/1/1	Cultivator, field 6-12 in sweeps		12
5/1/1	Sprayer, pre-emergence		12
5/1/1	planter, double disk opnr	Corn, grain	12
6/7/1	Sprayer, post emergence and fert. tank mix		20
10/20/1	Harvest, killing crop 50pct standing stubble		91
5/10/2	Sprayer, pre-emergence		91
5/10/2	Planter, double disk opnr	Soybean, mw 30 in rows	91
6/7/2	Sprayer, post emergence		90
8/1/2	Sprayer, insecticide post emergence		74
10/10/2	Harvest, killing crop 20pct standing stubble		94

FUEL USE EVALUATION:

Fuel type for entire run	Equiv. diesel use for entire simulation	Energy use for entire simulation	Fuel cost for entire simulation, US\$/ac
(none)	9.7	1300000	0

SCI and STIR Output

Soil conditioning index (SCI)	SCI OM subfactor	SCI FO subfactor	SCI ER subfactor	Avg. annual slope STIR	Wind & irrigation-induced erosion for SCI, t/ac/yr
0.540	0.97	0.39	-0.0061	62.1	0

The **SCI** is the **Soil Conditioning Index** rating. If the calculated index is a negative value, soil organic matter levels are predicted to decline under that production system. If the index is a positive value, soil organic matter levels are predicted to increase under that system.

The **STIR** value is the **Soil Tillage Intensity Rating**. It utilizes the speed, depth, surface disturbance percent and tillage type parameters to calculate a tillage intensity rating for the system used in growing a crop or a rotation. STIR ratings tend to show the differences in the degree of soil disturbance between systems. The kind, severity and number of ground disturbing passes are evaluated for the entire cropping rotation as shown in the management description.

Aerial Map



Liqui Grow
BALANCED FERTILIZERS

Maps provided by:
surety
CUSTOMIZED ONLINE MAPPING

©AgriData, Inc. 2012
www.AgriDataInc.com

16-79N-1E
Scott County
Iowa

SOIL TEST MAP

map center: 41° 38.8729', 90° 51.618'
scale: 10047



10/18/2012

Field borders provided by Farm Service Agency as of 5/21/2008. Aerial photography provided by Aerial Photograpy Field Office.

JEFF PAULSEN - EAST FARM

<http://www.suretymaps.com/reports/fsamap.aspx?datakey=895C29581EC DFA0505D2FF...> 10/18/2012

REPORT NUMBER: 12-293-1211



Agronomy 10 Guide

CLIENT: JEFF PAULSEN
 FARM LOCATION: EAST FARM

SUBMITTED BY: LIQUI GROW - WALCOTT
 DATE SUBMITTED: October 19, 2012

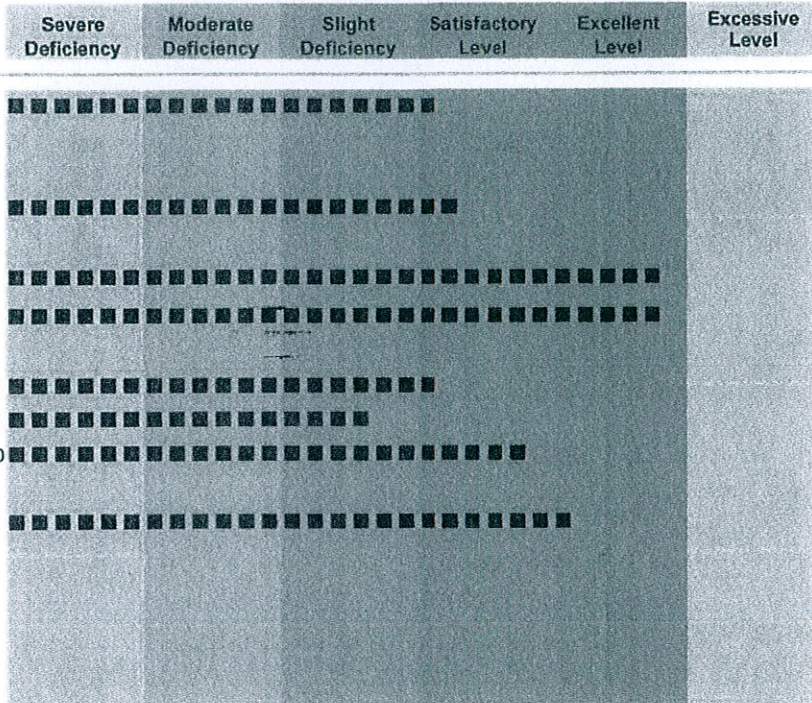
LAB NUMBER: 24442208
 SAMPLE NUMBER: 16
 ANALYSIS DATE: October 23, 2012
 FIELD NUMBER:
 LAT/LONG NUMBER:

LAST CROP:
 YIELD:
 CROP ROTATION: YEAR 1 YEAR 2 YEAR 3
 CROP:
 YIELD GOAL:
 PROGRAM:

ACRES PER SAMPLE:

Alter Recommendations

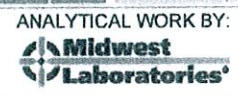
SOIL ANALYSIS
 Test Results



Excess Lime: Soil Type: 0 Sample Depth: 0-6 Sand (%) Silt (%) Clay (%)
 Cation Exchange Capacity: meq/100g 15.7 Soil Map Unit: Soil Texture Analysis: - - - -

Fertilizer Recommendations	RECOMMENDED NUTRIENT APPLICATIONS...POUNDS PER ACRE											CROP MAINTENANCE	
	Nitrogen	Phosphorus	Potassium	Magnesium	Calcium Carbonate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	P ₂ O ₅ lbs.	K ₂ O lbs.
BY CROP	N	P ₂ O ₅	K ₂ O	Mg	CaCO ₃	S	Zn	Mn	Fe	Cu	B		

PREPARED BY:
 Twin State, Inc. 3541 East Kimberly Road, Davenport, Iowa 52807, Phone: 563-359-3624
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Agronomy 10 Guide

CLIENT: JEFF PAULSEN
 FARM LOCATION: EAST FARM

SUBMITTED BY: LIQUI GROW - WALCOTT
 DATE SUBMITTED: October 19, 2012

LAB NUMBER: 24442207
 SAMPLE NUMBER: 15
 ANALYSIS DATE: October 23, 2012
 FIELD NUMBER:
 LAT/LONG NUMBER:

LAST CROP:
 YIELD:
 CROP ROTATION: YEAR 1 YEAR 2 YEAR 3
 CROP:
 YIELD GOAL:
 PROGRAM:

ACRES PER SAMPLE:

Alter Recommendations

SOIL ANALYSIS
 Test Results

Severe Deficiency	Moderate Deficiency	Slight Deficiency	Satisfactory Level	Excellent Level	Excessive Level
-------------------	---------------------	-------------------	--------------------	-----------------	-----------------

Soil Acidity	Soil or Water pH	6.8	[Progress bar: 100% in Satisfactory Level]		
	Buffer Index	-	[Progress bar: 100% in Satisfactory Level]		
Soluble Salts	mmhos/cm	-	[Progress bar: 100% in Satisfactory Level]		
Organic Matter Content	%	3.1	[Progress bar: 100% in Satisfactory Level]		
Nitrate Nitrogen	ppm	-	[Progress bar: 100% in Satisfactory Level]		
Phosphorus	P ₁ --Weak Bray	ppm	34	[Progress bar: 100% in Satisfactory Level]	
	P ₂ --Strong Bray	ppm	50	[Progress bar: 100% in Satisfactory Level]	
Hydrogen	% Base Saturation	meq	[Progress bar: 100% in Satisfactory Level]		
Potassium	2.3 % Base Saturation	ppm	157	[Progress bar: 100% in Satisfactory Level]	
Magnesium	16.8 % Base Saturation	ppm	349	[Progress bar: 100% in Satisfactory Level]	
Calcium	80.9 % Base Saturation	ppm	2788	[Progress bar: 100% in Satisfactory Level]	
Sodium	- % Base Saturation	ppm	-	[Progress bar: 100% in Satisfactory Level]	
Sulfur	ppm	17	[Progress bar: 100% in Satisfactory Level]		
Zinc	ppm	-	[Progress bar: 100% in Satisfactory Level]		
Manganese	ppm	-	[Progress bar: 100% in Satisfactory Level]		
Iron	ppm	-	[Progress bar: 100% in Satisfactory Level]		
Copper	ppm	-	[Progress bar: 100% in Satisfactory Level]		
Boron	ppm	-	[Progress bar: 100% in Satisfactory Level]		

Excess Lime	Soil Type:	0	Sample Depth:	0-6	Sand (%)	Silt (%)	Clay (%)
Cation Exchange Capacity:	meq/100g	17.3	Soil Map Unit:		Soil Texture Analysis:	-	-

Fertilizer Recommendations	RECOMMENDED NUTRIENT APPLICATIONS...POUNDS PER ACRE											CROP MAINTENANCE	
	Nitrogen	Phosphorus	Potassium	Magnesium	Calcium Carbonate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	P ₂ O ₅ lbs.	K ₂ O lbs.
BY CROP	N	P ₂ O ₅	K ₂ O	Mg	CaCO ₃	S	Zn	Mn	Fe	Cu	B		

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REPORT NUMBER: 12-293-1211



Agronomy 10 Guide

CLIENT: JEFF PAULSEN
 FARM LOCATION: EAST FARM

SUBMITTED BY: LIQUI GROW - WALCOTT
 DATE SUBMITTED: October 19, 2012

LAB NUMBER: 24442205
 SAMPLE NUMBER: 13
 ANALYSIS DATE: October 23, 2012
 FIELD NUMBER:
 LAT/LONG NUMBER:

LAST CROP:
 YIELD:
 CROP ROTATION: YEAR 1 YEAR 2 YEAR 3
 CROP:
 YIELD GOAL:
 PROGRAM:

ACRES PER SAMPLE:

Alter Recommendations

SOIL ANALYSIS
 Test Results

Severe Deficiency	Moderate Deficiency	Slight Deficiency	Satisfactory Level	Excellent Level	Excessive Level
-------------------	---------------------	-------------------	--------------------	-----------------	-----------------

Soil Acidity	Soil or Water pH	6.6	[Progress bar]		
	Buffer Index	6.9	[Progress bar]		
Soluable Salts	mmhos/cm	-	[Progress bar]		
Organic Matter Content	%	3.0	[Progress bar]		
Nitrate Nitrogen	ppm	-	[Progress bar]		
Phosphorus	P ₁ --Weak Bray	ppm 20	[Progress bar]		
	P ₂ --Strong Bray	ppm 28	[Progress bar]		
Hydrogen	5.8 % Base Saturation	meq 1.0	[Progress bar]		
Potassium	1.7 % Base Saturation	ppm 117	[Progress bar]		
Magnesium	16.8 % Base Saturation	ppm 346	[Progress bar]		
Calcium	75.7 % Base Saturation	ppm 2605	[Progress bar]		
Sodium	- % Base Saturation	ppm -	[Progress bar]		
Sulfur	ppm	12	[Progress bar]		
Zinc	ppm	-	[Progress bar]		
Manganese	ppm	-	[Progress bar]		
Iron	ppm	-	[Progress bar]		
Copper	ppm	-	[Progress bar]		
Boron	ppm	-	[Progress bar]		

Excess Lime	Soil Type:	0	Sample Depth:	0-6	Sand (%)	Silt (%)	Clay (%)
Cation Exchange Capacity:	meq/100g	17.2	Soil Map Unit:		Soil Texture Analysis:	-	-

Fertilizer Recommendations

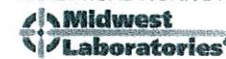
RECOMMENDED NUTRIENT APPLICATIONS...POUNDS PER ACRE

CROP MAINTENANCE

BY CROP	Nitrogen	Phosphorus	Potassium	Magnesium	Calcium Carbonate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	P ₂ O ₅ lbs.	K ₂ O lbs.
	N	P ₂ O ₅	K ₂ O	Mg	CaCO ₃	S	Zn	Mn	Fe	Cu	B		

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REPORT NUMBER: 12-293-1211



Agronomy 10 Guide

CLIENT: JEFF PAULSEN
 FARM LOCATION: EAST FARM

SUBMITTED BY: LIQUI GROW - WALCOTT

DATE SUBMITTED: October 19, 2012

LAST CROP:

YIELD:

CROP ROTATION: YEAR 1 YEAR 2 YEAR 3

CROP:

YIELD GOAL:

PROGRAM:

LAB NUMBER: 24442204
 SAMPLE NUMBER: 12
 ANALYSIS DATE: October 23, 2012
 FIELD NUMBER:
 LAT/LONG NUMBER:
 ACRES PER SAMPLE:

Alter Recommendations

SOIL ANALYSIS
 Test Results

Severe Deficiency	Moderate Deficiency	Slight Deficiency	Satisfactory Level	Excellent Level	Excessive Level
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Soil Acidity	Soil or Water pH	7.0	[Progress bar: 100% Satisfactory]		
	Buffer Index	-	[Progress bar: 100% Satisfactory]		
Soluble Salts	mmhos/cm	-	[Progress bar: 100% Satisfactory]		
Organic Matter Content	%	3.1	[Progress bar: 100% Satisfactory]		
Nitrate Nitrogen	ppm	-	[Progress bar: 100% Satisfactory]		
Phosphorus	P ₁ --Weak Bray	ppm	27	[Progress bar: 100% Satisfactory]	
	P ₂ --Strong Bray	ppm	39	[Progress bar: 100% Satisfactory]	
Hydrogen	% Base Saturation	meq	-	[Progress bar: 100% Satisfactory]	
Potassium	1.8 % Base Saturation	ppm	126	[Progress bar: 100% Satisfactory]	
Magnesium	18.0 % Base Saturation	ppm	390	[Progress bar: 100% Satisfactory]	
Calcium	80.2 % Base Saturation	ppm	2901	[Progress bar: 100% Satisfactory]	
Sodium	- % Base Saturation	ppm	-	[Progress bar: 100% Satisfactory]	
Sulfur	ppm	12	[Progress bar: 100% Satisfactory]		
Zinc	ppm	-	[Progress bar: 100% Satisfactory]		
Manganese	ppm	-	[Progress bar: 100% Satisfactory]		
Iron	ppm	-	[Progress bar: 100% Satisfactory]		
Copper	ppm	-	[Progress bar: 100% Satisfactory]		
Boron	ppm	-	[Progress bar: 100% Satisfactory]		

Excess Lime	Soil Type:	0	Sample Depth:	0-6	Sand (%)	Silt (%)	Clay (%)
Cation Exchange Capacity:	meq/100g	18.1	Soil Map Unit:		Soil Texture Analysis:	-	-

Fertilizer Recommendations	RECOMMENDED NUTRIENT APPLICATIONS...POUNDS PER ACRE											CROP MAINTENANCE	
	Nitrogen	Phosphorus	Potassium	Magnesium	Calcium Carbonate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	P ₂ O ₅ lbs.	K ₂ O lbs.
BY CROP	N	P ₂ O ₅	K ₂ O	Mg	CaCO ₃	S	Zn	Mn	Fe	Cu	B		

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REPORT NUMBER: 12-293-1211



Agronomy 10 Guide

CLIENT: JEFF PAULSEN
 FARM LOCATION: EAST FARM

SUBMITTED BY: LIQUI GROW - WALCOTT
 DATE SUBMITTED: October 19, 2012

LAB NUMBER: 24442203
 SAMPLE NUMBER: 11
 ANALYSIS DATE: October 23, 2012
 FIELD NUMBER:
 LAT/LONG NUMBER:

LAST CROP:
 YIELD:
 CROP ROTATION: YEAR 1 YEAR 2 YEAR 3
 CROP:
 YIELD GOAL:
 PROGRAM:

ACRES PER SAMPLE:

Alter Recommendations

SOIL ANALYSIS
 Test Results

Severe Deficiency	Moderate Deficiency	Slight Deficiency	Satisfactory Level	Excellent Level	Excessive Level
-------------------	---------------------	-------------------	--------------------	-----------------	-----------------

Soil Acidity	Soil or Water pH	7.1	[Bar chart showing pH level]		
	Buffer Index	-	[Bar chart showing Buffer Index]		
Soluable Salts	mmhos/cm	-	[Bar chart showing Soluable Salts]		
Organic Matter Content	%	3.0	[Bar chart showing Organic Matter Content]		
Nitrate Nitrogen	ppm	-	[Bar chart showing Nitrate Nitrogen]		
Phosphorus	P ₁ --Weak Bray	ppm	21	[Bar chart showing Phosphorus P1]	
	P ₂ --Strong Bray	ppm	32	[Bar chart showing Phosphorus P2]	
Hydrogen	% Base Saturation	meq	[Bar chart showing Hydrogen]		
Potassium	1.7 % Base Saturation	ppm	117	[Bar chart showing Potassium]	
Magnesium	18.6 % Base Saturation	ppm	400	[Bar chart showing Magnesium]	
Calcium	79.7 % Base Saturation	ppm	2856	[Bar chart showing Calcium]	
Sodium	- % Base Saturation	ppm	-	[Bar chart showing Sodium]	
Sulfur	ppm	12	[Bar chart showing Sulfur]		
Zinc	ppm	-	[Bar chart showing Zinc]		
Manganese	ppm	-	[Bar chart showing Manganese]		
Iron	ppm	-	[Bar chart showing Iron]		
Copper	ppm	-	[Bar chart showing Copper]		
Boron	ppm	-	[Bar chart showing Boron]		

Excess Lime	Soil Type:	0	Sample Depth:	0-6	Sand (%)	Silt (%)	Clay (%)
Cation Exchange Capacity:	meq/100g	17.9	Soil Map Unit:		Soil Texture Analysis:	-	-

Fertilizer Recommendations	RECOMMENDED NUTRIENT APPLICATIONS...POUNDS PER ACRE											CROP MAINTENANCE	
	Nitrogen	Phosphorus	Potassium	Magnesium	Calcium Carbonate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	P ₂ O ₅ lbs.	K ₂ O lbs.
BY CROP	N	P ₂ O ₅	K ₂ O	Mg	CaCO ₃	S	Zn	Mn	Fe	Cu	B		

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Guide

CLIENT: JEFF PAULSEN
 FARM LOCATION: JERRYS

SUBMITTED BY: LIQUI GROW - WALCOTT
 DATE SUBMITTED: April 2, 2015
 LAST CROP: SOYBEANS - bu

LAB NUMBER: 27966583
 SAMPLE NUMBER: 3
 ANALYSIS DATE: April 6, 2015
 FIELD NUMBER:
 LAT/LONG NUMBER:

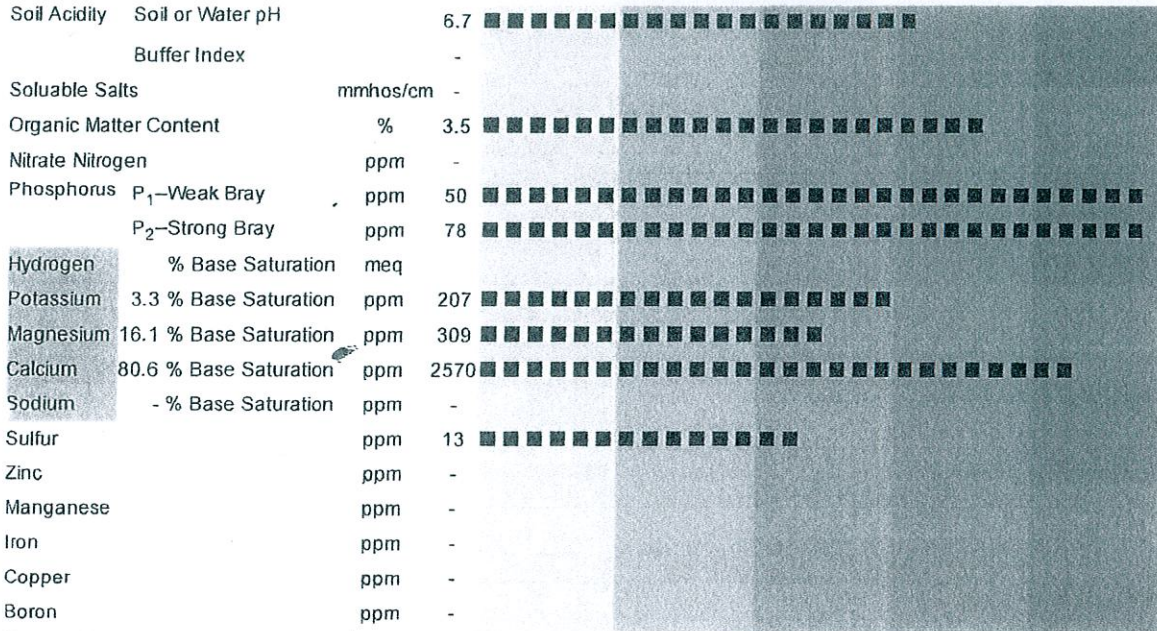
YIELD:
 CROP ROTATION: YEAR 1 YEAR 2 YEAR 3
 CROP: CORN - bu SOYBEANS - bu CORN - bu
 YIELD GOAL: 220 60 220
 PROGRAM:

ACRES PER SAMPLE:

Alter Recommendations

SOIL ANALYSIS
 Test Results

Severe Deficiency Moderate Deficiency Slight Deficiency Satisfactory Level Excellent Level Excessive Level

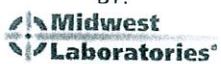


Soil Type:	0	Sample Depth:	0-6	Sand (%)	Silt (%)	Clay (%)	
Cation Exchange Capacity: meq/100g	16.0	Soil Map Unit:		Soil Texture Analysis:	-	-	-

Fertilizer Recommendations	RECOMMENDED NUTRIENT APPLICATIONS...POUNDS PER ACRE												CROP MAINTENANCE	
	BY CROP	Nitrogen N	Phosphorus P ₂ O ₅	Potassium K ₂ O	Magnesium Mg	Calcium Carbonate CaCO ₃	Sulfur S	Zinc Zn	Manganese Mn	Iron Fe	Copper Cu	Boron B	P ₂ O ₅ lbs.	K ₂ O lbs.
CORN - bu	220	215	-	65	-	-	16						58	82
SOYBEANS - bu	60	-	-	70	-	-	13						43	84
CORN - bu	220	215	-	65	-	-	16						58	82

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Co.

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 structure¹, 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 structure². See page 5 for additional DNR contact information.

THIS APPLICATION IS FOR:

Site Address:
23580 20th
Avenue

- 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): 66929
 - b) Date when the operation was first constructed: October 2011
 - c) Date when the last construction, expansion or modification was completed: October 2011
- (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: J2T2 LLC

Location:	<u>NE</u>	<u>NE</u>	<u>17</u>	<u>T79N R1E</u>	<u>Cleona</u>	<u>Scott</u>
	(1/4 1/4)	(1/4)	(Section)	(Tier & Range)	(Name of Township)	(County)

B) Applicant information:

Name: Tom Dittmer Title: Partner

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 structure¹ 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 structure³, or constructing or modifying a confinement building that uses an unformed manure storage structure³.
 2. Constructing, installing or modifying a confinement building or a formed manure storage structure² 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 structure³, 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 structure² 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 structure³ or egg washwater storage structure;
 2. The confinement feeding operation includes only confinement buildings and formed manure storage structures² 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:**
A 2400 head swine wean to finish barn will be built that is 81'2" x 241'4" with an eighth(8) foot deep concrete pit below the slats. The barn will be built to the west of an existing barn.
-
-
-

- 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 structure¹ 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 structure¹ 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 structure¹ is abandoned if the confinement feeding operation structure¹ 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 structure¹ so that it cannot be used as a confinement feeding operation structure¹ 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	2400	0.4	960	2400	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	
TOTALS:	a) Existing AUC: 960			b) Total proposed AUC: 1920		

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)

c) New AU = b) - a):
d)

(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 structure¹ and AUC proposed. To determine which checklist to use, choose the option that best describes your confinement feeding operation:

- A) **Formed manure storage structures²:** The proposed confinement feeding operation structure¹ will be or will use a formed manure storage structure². Check one of the following boxes:
- A swine farrowing and gestating operation with an AUC of 1,250 AU or more. Use Submittal Checklist No. 2 (page 13).
 - A swine farrow-to-finish operation with an AUC of 2,750 AU or more. Use Submittal Checklist No. 2 (page 13).
 - A cattle confinement feeding operation (including dairies) with an AUC of 4,000 AU or more. Use Submittal Checklist No. 2 (page 13).
 - Other confinement feeding operations with an AUC of 3,000 AU or more. Use Submittal Checklist No. 2 (page 13).
 - 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 engineer⁴ 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 engineer⁴ and a Professional Engineer (PE) is not required. Use Submittal Checklist No. 1 (page 10).

- B) **Unformed manure storage structure³:** The proposed confinement feeding operation structure¹, will be or will use an unformed manure storage structure³ 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): J2T2 LLC by: Jeff Paul Date: 8-25-15
J2T2 LLC by: Tom Dethman 8/25/15

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 structure². 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
Jeff Paulsen	23536 20th Ave.	Stockton/IA	52769
Theresa Paulsen	23536 20th Ave.	Stockton/IA	52769
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 attached list

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

Signature of Applicant(s): Jeff Paulsen Theresa Paulsen Date: 8-25-15
Tom Dittmer Joni Dittmer 8/25/15

J2T2 LLC

Farm ID#	Farm Name	Legal Description	Owner
59557	Walcott WF	NW SW Sec. 10 T78N R2E Blue Grass, Scott Co.	Tom and Joni
65381	TJ WF(Cline)	NW NW Sec. 13 T79N R2E Hickory Grove, Scott Co.	Tom and Joni
59556	Home Sow	SW SW Sec. 7 T79N R3E Sheridan, Scott Co.	Tom and Joni
66831	TJ West	NW NE Sec. 24 T79N R1W Farmington, Cedar Co.	Tom and Joni
67903	Pioneer WF	NE NE Sec. 25 T79N R1W Farminton, Cedar Co.	Pioneer WF, LLC
65037	DeWulf	SE SW Sec. 17 T80N R3E Winfield, Scott Co.	Tom and Joni
65036	Engler	SE NW Sec. 4 T79N R3E Sheridan, Scott Co.	Tom and Joni

ITEM 8

**Manure Storage Indemnity Fee Form
for Construction Permits**

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

Credit fees to: J2T2 LLC
Name of operation: J2T2 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:

$$(800 \text{ AU}) \times (\$ 0.15 \text{ per AU}) = \$ 120.00$$

- **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:

$$(2,000 \text{ AU}) \times (\$ 0.06 \text{ per AU}) = \$ 120.00$$

- **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:

$$(3,500 \text{ AU}) \times (\$ 0.20 \text{ per AU}) = \$ 700.00$$

- **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	960	x	\$ 0.15 =	144.00
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: J2T2 LLC
Name of operation: J2T2 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 \$ 144.00
4. Total filing fees: Add the fees paid in items 1, 2 and 3 (above): \$ 644.00

SUMMARY:	
- Manure Storage Indemnity Fee (see previous page) to be deposited in the Manure Storage Indemnity Fee Fund (474)	\$ <u>144.00</u>
- Total filing fees (see item 4 on this page) to be deposited in the Animal Agriculture Compliance Fund (473)	\$ <u>644.00</u>
TOTAL DUE:	\$ <u>788.00</u>

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: J2T2 LLC Telephone: 563-370-5129

Name of operation: J2T2 LLC

Location: NE NE 17 T79N R1E Cleona Scott
(1/4 1/4) (1/4) (Section) (Tier & Range) (Name of Township) (County)

Documents being submitted to the county:

- Construction permit application form: submit items 1 to 9 (see Submittal Checklist No. 1 or 2)
- Attachment 1 - Aerial photos: Must clearly show the location of the proposed confinement feeding operation structure¹ and that all the separation distances are met, including those claimed for points in the master matrix (if applicable).
- Attachment 2 - Statement of design certification, submit any of the following (see Checklist No. 1 or 2):
 - 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 structure³ or an egg washwater storage structure submit documentation required in Addendum "A" of this construction application form.
- Attachment 3 - Manure management plan.
- 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:

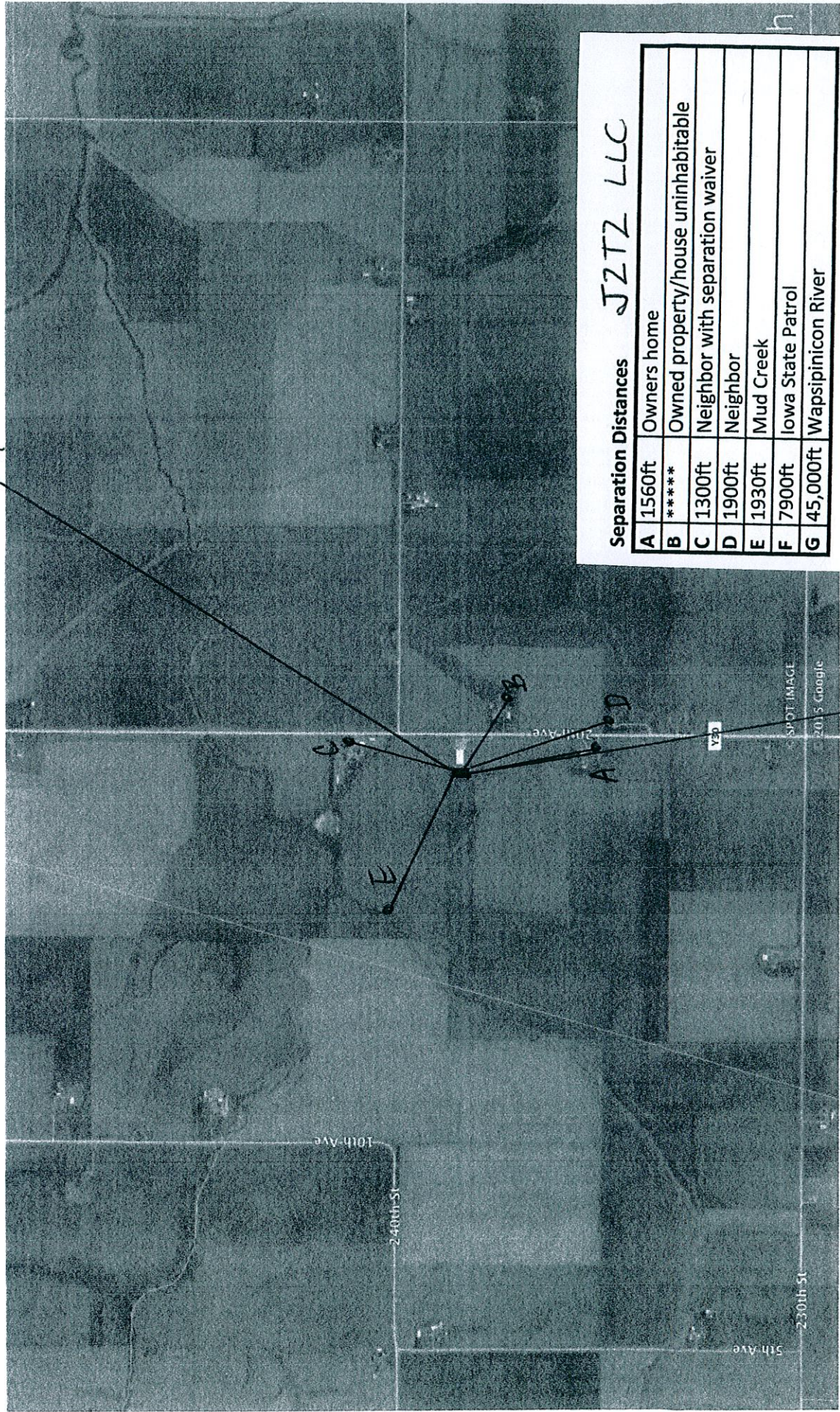
COUNTY: Scott

NAME: Brian McDonough

TITLE: Planning & Development Specialist
(Member of the County Board of Supervisors or its designated official/employee)

Date: August 25, 20 15

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



Separation Distances **JTZ LLC**

A	1560ft	Owners home
B	*****	Owned property/house uninhabitable
C	1300ft	Neighbor with separation waiver
D	1900ft	Neighbor
E	1930ft	Mud Creek
F	7900ft	Iowa State Patrol
G	45,000ft	Wapsipicon River



Google earth

G

G

E

B

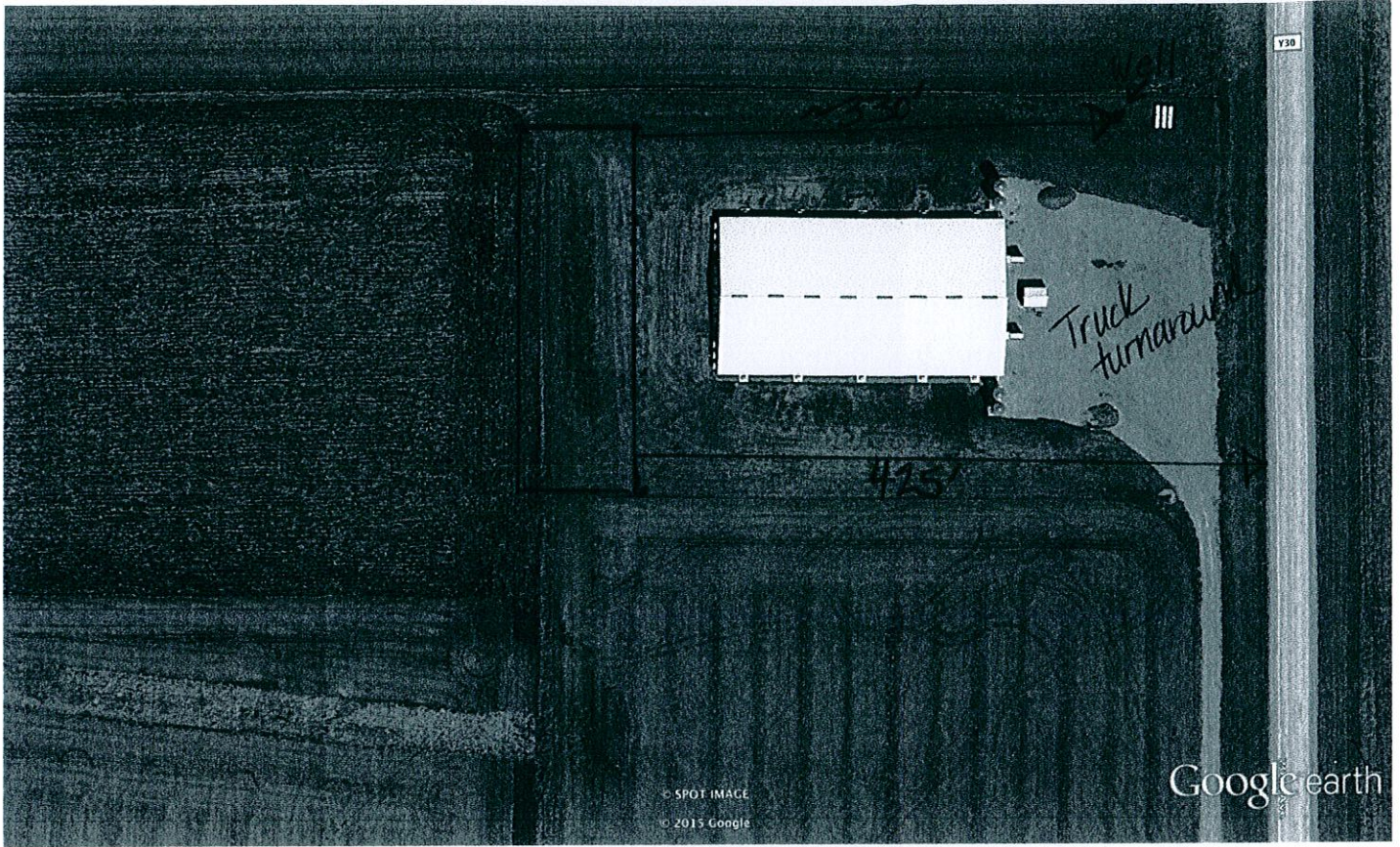
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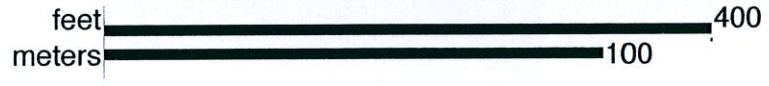
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Google earth



JZT2 LLC