

PLANNING & DEVELOPMENT

500 West Fourth Street
Davenport, Iowa 52801-1106
E-mail: planning@scottcountyiaowa.com
Office: (563) 326-8643 Fax: (563) 326-8257



Item 02
06-14-16

Timothy Huey
Director

To: Mary Thee, Interim County Administrator

From: Timothy Huey, Planning Director

Date: June 7, 2016

Re: Staff review and recommendation on a State Construction Permit Application for the expansion of a concentrated animal feed operation (finishing hogs) submitted by Scott Wolf at 25279 1st Avenue Scott County, legally described as part of the NW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 6, Cleona Township.

On May 5th the above referenced application was submitted to Scott County prior to submission to the Iowa DNR. Scott County has 30 days from the date it is received by the DNR to submit comments and a recommendation on that application. The DNR notified Scott County it had received this application on May 10th. Notice of the receipt of this application was published as a public notice on May 16th and May 18th. A public hearing was held on June 2nd.

This request is for the expansion of an existing hog confinement operation in Cleona Township that requires compliance with the standards of the Master Matrix.

The Health Department and Planning and Development staff have reviewed of this request for compliance with the Master Matrix and CAFO standards. The Health Department has also reviewed the manure management plan. The results of that review are included with Board enclosures along with all the materials submitted by the applicant in conjunction with this request. Due to time constraints with deadlines for public notice and separate action of the resolution with the Board of Supervisors recommendation, staff requested, and the applicant agreed, to extend the 30 day time limit by 7 days.

Staff has not received any written, emailed or telephone comments on this request. Only the applicant spoke on his own behalf at the recent public hearing.

The IDNR inspector from the Washington, Iowa district office conducted his inspection of the site. Planning and Health Department staff have also conducted an inspection of the site.

DETAILS OF SCORING THE MASTER MATRIX

ENVIRONMENTAL SERVICES DIVISION | WWW.IOWADNR.GOV



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

CONSTRUCTION PERMITS

THE MASTER MATRIX

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

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

Not all permit applications require a master matrix:

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

The master matrix consists of 44 criteria which further describe the potential site for the proposed confinement facility. The applicant may qualify for any or all criteria

and be awarded points for each criterion. An applicant chooses which criteria they would like to claim points on. An applicant must score an overall minimum point total of 440 points as well as one-fourth of the available point total in three subcategories (Air, Water and Community).

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

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

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

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

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

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

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

COUNTY APPROVAL

If the county agrees with the master matrix scoring as submitted by the applicant or scores the matrix with a passing score, the county must still submit to the DNR a



recommendation to approve or disapprove the construction permit application.

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

FAILING SCORE ON MATRIX

If the county's scoring results in a failing score of the master matrix then the county must still submit

to the DNR a recommendation to approve or disapprove the construction permit application.

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

APPEALS

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

FINAL DECISION

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

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

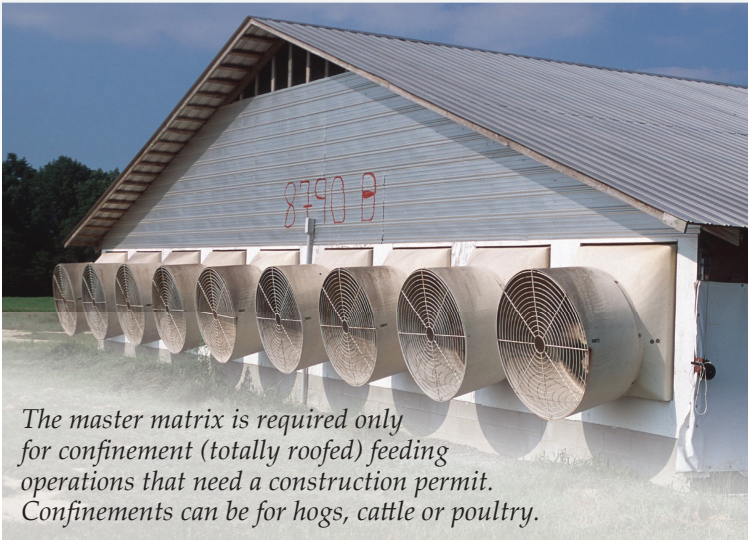


IOWA DEPARTMENT OF NATURAL RESOURCES

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CONSTRUCTION PERMIT APPLICATIONS AND THE MASTER MATRIX

ENVIRONMENTAL SERVICES DIVISION | WWW.IOWADNR.GOV



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

CONSTRUCTION PERMITS

THE APPLICATION

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

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

COUNTY RESPONSIBILITIES

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

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

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

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

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

- The name of the person applying to receive the construction permit.
- The name of the township where the confinement feeding operation structure is proposed.
- Each type of confinement feeding operation structure proposed.
- The animal unit capacity of the confinement feeding operation if the construction permit is approved.
- The time and place where the public may examine the application as provided in Iowa Code section 22.2 (the Public Records Law).
- Procedures for providing public comments to the board as provided by the board.

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

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

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

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

5) KEEP A COPY FOR PUBLIC INSPECTION: Keep a copy of the construction permit application on file for public inspection. The application includes the manure management plan and the master matrix.

6) PROVIDE PROOF OF PUBLICATION: If the proposed project does not require a master matrix, then only a proof of publication must be sent to the DNR.

Send a copy of the proof of publication to:

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

7) PROVIDE A PUBLIC HEARING (OPTIONAL): The county may hold a public hearing for any permit application (master matrix or non-master matrix project). The time and place should be on the public notice. The county may submit any comments from the public hearing to the DNR.

8) MAKE A RECOMMENDATION: On a master matrix project, the county must submit its recommendation to either approve or disapprove the permit application. This recommendation is independent of the county’s master matrix scoring. More information can be found in the DNR fact sheet “Details of Scoring the Master Matrix.”

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

- a) The written county recommendation to approve or disapprove the permit application, regardless of the master matrix scoring.
- b) The board’s scoring of the matrix along with documentation and justification if points are denied. If the county agrees with the scoring submitted by the applicant, a sentence to that effect is acceptable and no matrix scoring needs to be submitted.
- c) The proof of publication.
- d) The county may also submit any other relevant documents, including those received by interested parties.

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

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



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

- Name of Applicant: Scott Wolf
Address: 25279 1st Avenue, New Liberty, IA 52765
- Location of operation: Part of the NW¹/₄ SW¹/₄, Section 6, 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 that capacity to be increased to 4,864 head at an AUC of 1946, including the construction of a new 241' x 81'2" wean to finish barn for 2,464 head. The new building would be constructed as a formed manure storage structure with an 8' 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 must be delivered or sent to and received by the Scott County Planning and Development Department until June 10, 2016 at 4:30 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

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E-mail: planning@scottcountyiowa.com

Office: (563) 326-8643

Fax: (563) 326-8257



Timothy Huey
Director

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 CONCENTRATED ANIMAL FEEDING OPERATION

Public Notice is hereby given that the Scott County Board of Supervisors will hold a public hearing on **Thursday, June 2nd 2016**, 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.**

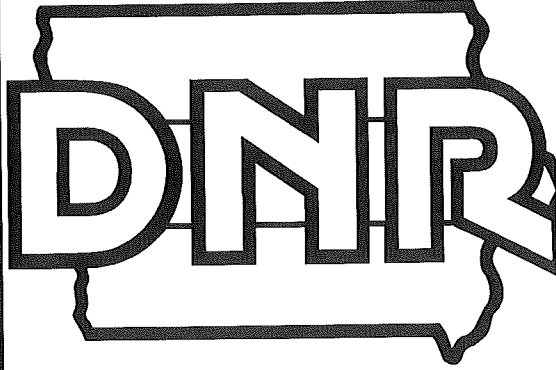
The Scott County Board of Supervisors will review and hear public comments on the State of Iowa Construction Permit application of Scott Wolf for the expansion of an existing swine finishing operation located in Part of the NW¹/₄ SW¹/₄ of Section 6, T79N, R1E (Cleona Township).

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 that capacity to be increased to 4,864 head at an AUC of 1946, including the construction of a new 241' x 81'2" wean to finish barn for 2,464 head. The new building would be constructed as a formed manure storage structure with an 8' 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



Iowa Department of Natural Resources
1900 North Grand Ave.
Gateway N Mall, Suite E17
Spencer, Iowa 51301

FAX SHEET

DELIVER TO: Scott County Auditor PHONE: 1-563-326-8643

FAX NUMBER: 1-563-326-8257

FROM: Iowa DNR, Paul Petitti

NUMBER OF PAGES (including this cover sheet): 5

MESSAGE: This is a Courtesy Reminder: Iowa law requires that your board of supervisors publish a notice in the newspaper and submit the board's master matrix scoring and recommendation for the construction permit application of the confinement feeding operation, as explained in the attached letter. Please take note of the deadlines. If you have any questions, please call.

Our Fax Number is: 712/262-2901

Any problems with transmission call: 712/262-4177



STATE OF IOWA

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

DEPARTMENT OF NATURAL RESOURCES
CHUCK GIPP, DIRECTOR

May 10, 2016

Scott County Board of Supervisors
c/o County Auditor
Via facsimile and email

**REF: Public Notice, Matrix Evaluation and County's Recommendation Required
DNR's Facility ID No. 64308**

Dear Board of Supervisors:

The DNR has received a construction permit application for a confinement feeding operation:
Facility name: **Scott Wolf Site**
Date received by the DNR: 05/10/2016

Under Iowa law, for this application the County is required to complete the following actions:

1. Publish a public notice (see example on page following this letter) in a newspaper having a general circulation in the county no later than 05/24/2016 (within 14 days of DNR's receipt of the application) and furnish proof of publication to the DNR:

Note: A public hearing is not required, but it is optional. However, if the board chooses to have a public hearing, it is recommended to include in the notice the date, time and place for the hearing.

2. Score the applicant's Master Matrix and submit the board's scoring and recommendation regarding this application. A sample cover letter is attached. The county must submit to the DNR all of the following:
 - A) A recommendation to approve or to disapprove the application.
 - B) The Boards scoring of the Matrix, including all supporting calculations.
 - C) Proof of publication of Public Notice.

Your recommendation and Matrix score must be received by the DNR no later than 06/10/2016 (30 days after DNR received the application).

NOTE: If the County does not submit the Matrix score and recommendation by the deadline, the DNR will not consider any subsequent County's scoring of the Matrix or recommendation until the next time the County is eligible to adopt a construction evaluation resolution.

3. The board may submit comments or may forward comments from the public, which must be **received** by DNR no later than 06/10/2016. Comments received after that date due will not be considered. Comments may include but are not limited to the following:
- a. The existence of an object or location not included in the application that benefits from a separation distance requirement as provided in section 459.202 or 459.204 or 459.310 of the Code of Iowa.
 - b. The suitability of soils and the hydrology of the site where construction of a confinement feeding operation structure is proposed.
 - c. The availability of land for the application of manure originating from the confinement feeding operation.
 - d. Whether the construction of a proposed confinement feeding operation structure will impede drainage through established tile lines, laterals, or other improvements which are constructed to facilitate the drainage of land not owned by the person applying for the construction permit.
4. The proof of publication, County's recommendation, a copy of the Matrix as scored by the board and any public comments must be **received** by IDNR no later than 06/10/2016. To ensure timely submittal, we recommend that you also **fax or scan and email** proof of publication, County's recommendation and a copy of the Matrix as scored by the board to:

Send to:

Iowa DNR
Field Office #3
1900 N Grand Ave
Gateway North, Suite E17
Spencer, IA 51301
Attn: Paul Petitti

Iowa DNR
Field Office #2
2300 15th St SW
Mason City, IA 50401
Attn: Cindy Garza

Paul.Petitti@dnr.iowa.gov
712/262-4177

Cindy.Garza@dnr.iowa.gov
641/424-4073

If you have any questions about this process, please contact Paul or Cindy.

Sincerely,

Field Services and Compliance Bureau



Paul Petitti

PUBLIC NOTICE

(This section is to be completed by the applicant)

The Scott County Board of Supervisors, has received a construction permit application for a confinement feeding operation, more specifically described as follows:

Name of Applicant: Scott Wolf

Location of the proposed construction: Section 6 of Cleona Township.

Type of confinement feeding operation structure[‡] proposed: One new 2464 head deep pit swine finisher confinement building at an existing swine confinement facility.

Animal Unit Capacity of the Confinement Operation after Construction: 1946 animal units.(4864 head of swine finishers)

(This section is to be completed by the county)

Examination: The application is on file at the County _____ Office and is available for public inspection during the following days: _____ and hours: _____ am to _____ pm.

Comments: Written comments may be filed at the County _____ Office, until the following deadline: _____.

[‡] A confinement feeding operation structure = a confinement building with a below the floor concrete pit; confinement building with an earthen basin or anaerobic lagoon; aboveground steel tank, etc. (see definition in footnote 1, page 1 of this application form).

Letterhead for County Board of Supervisors

Address, town, Iowa

COURTHOUSE: # FAX: #

Supervisors

_____ County Master Matrix Scoring & Recommendation

The _____ County Board of Supervisors have reviewed the Master Matrix and Construction Permit Application for _____

Public Notice was published on __/__/__ and the proof of publication is attached.

Matrix as scored by _____ County = _____ points. **Passing / Failing** (Circle One)

If the County scored matrix is different than submitted then the County scored matrix is attached with justifications

Supplemental letters or documentation is being sent to DNR

Upon review and inspection of construction site and documents provided, we the _____ County Board of Supervisors recommend the permit application be **Approved / Disapproved** (Circle One)

Comments or Reason for Disapproval:

Signed:

Chairman

Date:

Scott Wolf Master Matrix points table

5/3/2016

Question	Score	Air	Water	Community
1				
2	30	12		18
3	30	12		18
4	30		30	
5	30	9		21
6	10	4		6
7	30		24	6
8	50	5	25	20
9	25	7.5	7.5	10
10	30		22.5	7.5
11				
12	30	27		3
13				
14				
15				
16				
17	30		27	3
18				
19	20			20
20	30			30
21				
22				
23	25			25
24	20			20
25	25		12.5	12.5
26	30	12	12	6
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40	5		2.5	2.5
41				
42				
43				
44				
TOTALS	480	88.5	163	228.5

IOWA MASTER MATRIX SUPPLEMENT

Scott Wolf
SCOTT COUNTY

May 2016

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

Table 1. Summary table of matrix questions receiving points

Question #	Description	Actual
	Site Separation Distances	
2	public use area >2500ft	~2.5 mi (New Liberty)
3	school, church, business >2500ft	~1.9 mi (Sunbury)
4	Closest water source > 500ft	~3100' to south Mud Creek
5	Thoroughfare 300ft or more	980ft to 1 st Ave
6	critical public area	~1.9 mi (Sunbury)
7	Two times minimum of 100ft for deep well	~350ft to well on site
8	drainage wells, sinkholes, major water sources	~4.5 mi (portion of Mud Creek)
9	Nearest confinement with MMP (>3960ft)	4900ft (M.Lilienthal)
10	high quality/protected waters	~8.5 mi (Wapsi)
12	covered manure storage	design / O&M, CDS
17	formed manure storage structure	design / O&M, CDS
19	Truck turnaround	design / O&M
20	No administrative orders	personal statement
23	Family Farm tax credit	personal statement
24	Facility Size	1946 AU
25	Feed and water systems	design / O&M
26	Inject manure	see MMP
	Land Application Separation Distances	
40	Emergency action plan	see attachment

12. Covered Manure Storage

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

17. Formed Manure Storage Structure

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

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

19. Truck Turnaround

The truck turnaround is designed as shown on the site plan. It has a diameter of at least 120 ft to allow for safe truck turnaround. The turnaround is located over 300 ft from the thoroughfare and therefore creates a safer environment for the truck driver and others on the road.

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

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

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

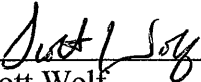
24. The total number of swine housed on site will be 4864 head which equals 1946 animal units. [4864 hd * 0.4 conversion factor = 1946 AU]

25. Feed and Water Systems

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

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

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



Scott Wolf

5-4-16

Date

Daily Checks

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

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

Monthly Checks

Date _____

Manure Depth _____

Drain Tile: Is water present? YES or NO
 Approximate depth? _____ inches

Pumpout lids: Condition? GOOD FAIR NEEDS ATTENTION

Semi-annual Check

The outer above ground perimeter of manure storage:

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

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

APPENDIX C MASTER MATRIX

Proposed Site Characteristics

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

	Score	Air	Water	Community
300 feet or more	30	9.00		21.00

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

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

	Score	Air	Water	Community
500 feet or more	10	4.00		6.00

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

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

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

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

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

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

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

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

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

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

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

10. Separation distance from proposed confinement structure to closest:

- * High quality (HQ) waters,
 - * High quality resource (HQR) waters, or
 - * Protected water areas (PWA)
- is at least two times the minimum required separation distance

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

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

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

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

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

12. Liquid manure storage structure is covered.

	Score	Air	Water	Community
Covered liquid manure storage	30	27.00		3.00

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

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

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

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

	Score	Air	Water	Community
Emergency containment area	20		18.00	2.00

- (A) The emergency containment area must be able to contain at least 5 percent of the total volume capacity of the manure storage structure.
 (B) The emergency containment area must be constructed on soils that are fine-grained and have low permeability.
 (C) If manure is spilled into the emergency containment area, the spill must be reported to the department within six hours of onset or discovery.
 (D) The design, construction, operation and maintenance plan for the emergency containment area must be in the construction permit application and made a condition in the approved construction permit.

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

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

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

- ~~15.~~ Utilization of landscaping around confinement structure.

	Score	Air	Water	Community
Utilization of Landscaping	20	10.00		10.00

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

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

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

- (A) The design, operation and maintenance plan for the stockpile or compost structure enhancements must be in the construction permit application and made a condition in the approved construction permit.
 (B) The stockpile or compost structures must be located on land adjacent or contiguous to the confinement building.

17. Proposed manure storage structure is formed

	Score	Air	Water	Community
Formed manure storage structure	30		27.00	3.00

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

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

	Score	Air	Water	Community
Aerated manure storage structure	10	8.00		2.00

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

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

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

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

	Score	Air	Water	Community
Truck turnaround	20			20.00

- (A) The design, operation and maintenance plan for the truck turn around area must be in the construction permit application and made a condition in the approved construction permit.
 (B) The turnaround area should be at least 120 feet in diameter and be adequately surfaced for traffic in inclement weather.

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

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

- (A) "Interest" - means ownership of a confinement feeding operation as a sole proprietor or a 10 percent or more ownership interest held by a person in a confinement feeding operation as a joint tenant, tenant in common, shareholder, partner, member, beneficiary or other equity interest holder. Ownership interest is an interest when it is held either directly, indirectly through a spouse or dependent child, or both.
 (B) An environmental violation is a final Administrative Order (AO) from the department of natural resources or final court ruling against the construction permit applicant for environmental violations related to an animal feeding operation. A Notice of Violation (NOV) does not constitute a violation.

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

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

- (A) Waiver of Pollution Control Tax Exemption is limited to the proposed structure(s) in the construction permit application.
 (B) The department and county assessor will maintain a record of this waiver, and it must be in the construction permit application and made a condition in the approved construction permit.

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

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

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

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

	Score	Air	Water	Community
Family Farm Tax Credit qualification	25			25.00

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

24. Facility size.

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

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

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

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

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

Proposed Site Operation and Manure Management Practices

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

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

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

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

e.	Injection or incorporation of manure on the same date it is land-applied	30	12.00	12.00	6.00
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- (A) Choose only ONE line from subsection "a", "b," "c," "d," or "e" above and mark only one score in that subsection.
- (B) The injection or incorporation of manure must be in the construction permit application and made a condition in the approved construction permit.
- (C) If an emergency arises and injection or incorporation is not feasible, prior to land application of manure the applicant must receive a written approval for an emergency waiver from a department field office to surface-apply manure.
- (D) Requirements pertaining to the sale of bulk dry manure under pursuant to Iowa Code chapter 200A must be incorporated into the construction permit application and made a condition of the approved construction permit.
- (E) The design, operation and maintenance plan for utilization of manure as an energy source must be in the construction permit application and made a condition in the approved construction permit.
- (F) The design, operation and maintenance plan for composting facilities must be in the construction permit application and made a condition in the approved construction permit.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

~~34.~~ Additional separation distance, above minimum requirements, for the land application of manure to the closest:

- * Agricultural drainage well,
- * Known sinkhole,
- * Major water source, or
- * Water source

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

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

~~35.~~ Additional separation distance above minimum requirements, for the land application of manure, to the closest:

- * High quality (HQ) water,
- * High quality resource (HQR) water, or
- * Protected water area (PWA).

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

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

~~36.~~ Demonstrated community support.

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

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

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

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

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

	Score	Air	Water	Community
Manure management plan confidentiality waiver	5			5.00

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

~~39.~~ Added economic value based on quality job development (number of full time equivalent (FTE) positions), and salary equal to or above Iowa department of workforce development median (45-2093)

-OR-

the proposed structure increases commercial property tax base in the county.

	Score	Air	Water	Community
Economic value to local community	10			10.00

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

40. Construction permit application contains an emergency action plan.

	Score	Air	Water	Community
Emergency action plan	5		2.50	2.50

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

X 41. Construction permit application contains a closure plan.

	Score	Air	Water	Community
Closure Plan	5		2.50	2.50

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

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

	Score	Air	Water	Community
EMS	15	4.50	4.50	6.00

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

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

	Score	Air	Water	Community
CNMP	10	3.00	3.00	4.00

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

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

	Score	Air	Water	Community
Groundwater monitoring	15		10.50	4.50

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

Score to pass

Total Score	Air	Water	Community
880	213.50	271.00	404.50
440	53.38	67.75	101.13

Scott Wolf

490	88.5	170.5	231
-----	------	-------	-----

Emergency Response Plan

In Case of an Emergency Storage Facility Spill, Leak, or Failure:

Implement the following first containment steps and where containment material is located:

- a. Stop all other activities to address the spill.
- b. Use skid loader or tractor with blade to contain or divert spill or leak, if possible.
- c. Call for help & excavator if needed.
- d. Pump waste back in lagoon or into tank and land application.
- e. Complete the clean-up and repair the necessary components.
- f. Assess the extent of the emergency and determine how much help is needed.

In Case of an Emergency Land Application Manure/Waste Discharge

Implement the following first containment steps and where containment material is located:

- a. Stop all other activities to deal with the emergency.
- b. Call for help if needed.
- c. Contain the spill or runoff from entering the stream or waterway using straw bales, saw dust, or soil material.
- d. Assess the extent of the emergency and determine how much help is needed.
- e. Properly land apply.

1. Emergency Contacts:

Department / Agency	Phone
County Sheriff – Scott County	563-326-8625
Fire Department	911 or
Ambulance & Rescue	911 or
Electric Company – REC	563-732-2211
Natural Gas Company -	
Propane Company – RVC	563-785-4808
Electrician – Devon Warner	563-370-5460
Rendering Company – composting	
Emergency Response Contacts:	
Scott Wolf	563-370-3734
Brian Linnenbrink	563-370-1952
Mike DeCap	563-370-3361

2. Available equipment/supplies for responding to emergency:

Equipment Type	Contact Person	Phone Number
Schwartz Excavating Bulldozer, backhoe, etc.	Todd	563-529-5216
Lilienthal Manure tankers	Bob	563-349-2918

3. Contacts to be made by farm's Owner or Operator as Soon As Possible within 24 hours:

Organization	Phone
Natural Resources Conservation Service	563-391-1403
Health Department Office	563-326-8618
County Sheriff's Office	563-326-8625
Iowa DNR Emergency 24 hour	515-281-8694
Iowa Department of Agriculture	515-281-5321

Provide the following information:

- a. Your Name

Farm Identification and directions from nearest town –

Address:

25531 1st Ave, New Liberty, IA

Directions:

North of Durant 5 miles, turn right on to 290th
go 1 mile, turn left (north) ~ 1/2 mile on the right.
Barns sit off the road about 1/4 mile.

- b. Description of emergency

- c. Estimate of the amounts, area covered, and distance traveled.

- d. Has manure reached surface waters or major field drains?

- e. Is there any obvious damage: employee injury, fish kill, or property damage?

- f. What is currently in progress to contain situation?

4. Additional containment measures, corrective measures, or property restoration measures.



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: Scott Wolf (Signature) Scott Wolf (Print name) Date: 5-4-16

Name of operation: Scott Wolf Facility ID No. 64308

Location of the operation: 25279 1st Ave
(911 address)
New Liberty Iowa 52765
(Town) (State) (Zip)
 NW 1/4 of the SW 1/4 of Sec 6 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 Scott Wolf Phone 563-785-4562
 Address 25279 1st Ave New Liberty, IA 52765
 E-mail address (optional) _____ Cell phone (optional) _____

Contact person (if different than owner) _____ Phone _____
 Address _____
 E-mail address (optional) _____ Cell phone (optional) _____

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: _____ Sp 2006 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 (wet/dry)	4864	Deep pit	45.4	22.3	0.7	360	1,226,000
Total Gallons							1,226,000

Estimated annual animal production¹: ~5000 animals/year

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



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 fill in

Management Identification (Mgt ID)^g

CCCB) Corn-Corn-Corn-Soybeans

(identify this application scenario by letter)

Method to determine optimum crop yield^h Timing of application

Method of application Application loss factor

If spray irrigation is used, identify method^j

Table 2. Manure nutrient concentration

Table 3. Crop usage rates^p

Manure Nutrient Content (lbs/1000gal or lbs/ton)					
Manure Storage Structure(s) ^k		Deep pit			
Total N ^l	45	P ₂ O ₅		29	
%TN Available 1st year	80%	2nd year	20%	3rd year	
Available N 1st year ^m	35.3	2nd year ⁿ	8.8	3rd year ^o	0.0

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)

		Corn 1	Corn 2	Corn 3	Soybean	
1	Applying Manure For (crop to be grown) ^q					
2	Optimum Crop Yield ^h	bu or ton/acre	231	231	231	67
3	P ₂ O ₅ removed with crop by harvest ^r	lb/acre	86.6	86.6	86.6	53.6
4	Crop N utilization ^s	lb/acre	277	277	277	255
5a	Legume N credit ^t	lb/acre	50.00	0	0	0
5b	Commercial N planned ^u	lb/acre	50	60	60	
5c	Manure N carryover credit ^v	lb/acre		44.1	43.2	43.2
6	Remaining crop N need ^w	lb/acre	177	173	174	211
7	Manure rate to supply remaining N ^x	gal/acre	5023	4906	4931	5992
8	P ₂ O ₅ applied with N-based rate ^y	lb/acre	146	142	143	174

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	2987	2987	2987	1848
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	5000	4900	4900	
----	-----------------------------------------------	----------	------	------	------	--

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"

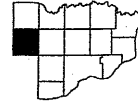
- * Agricultural drainage installations
- * Tile repair
- * Backhoeing
- * Bulldozing

Farm Location

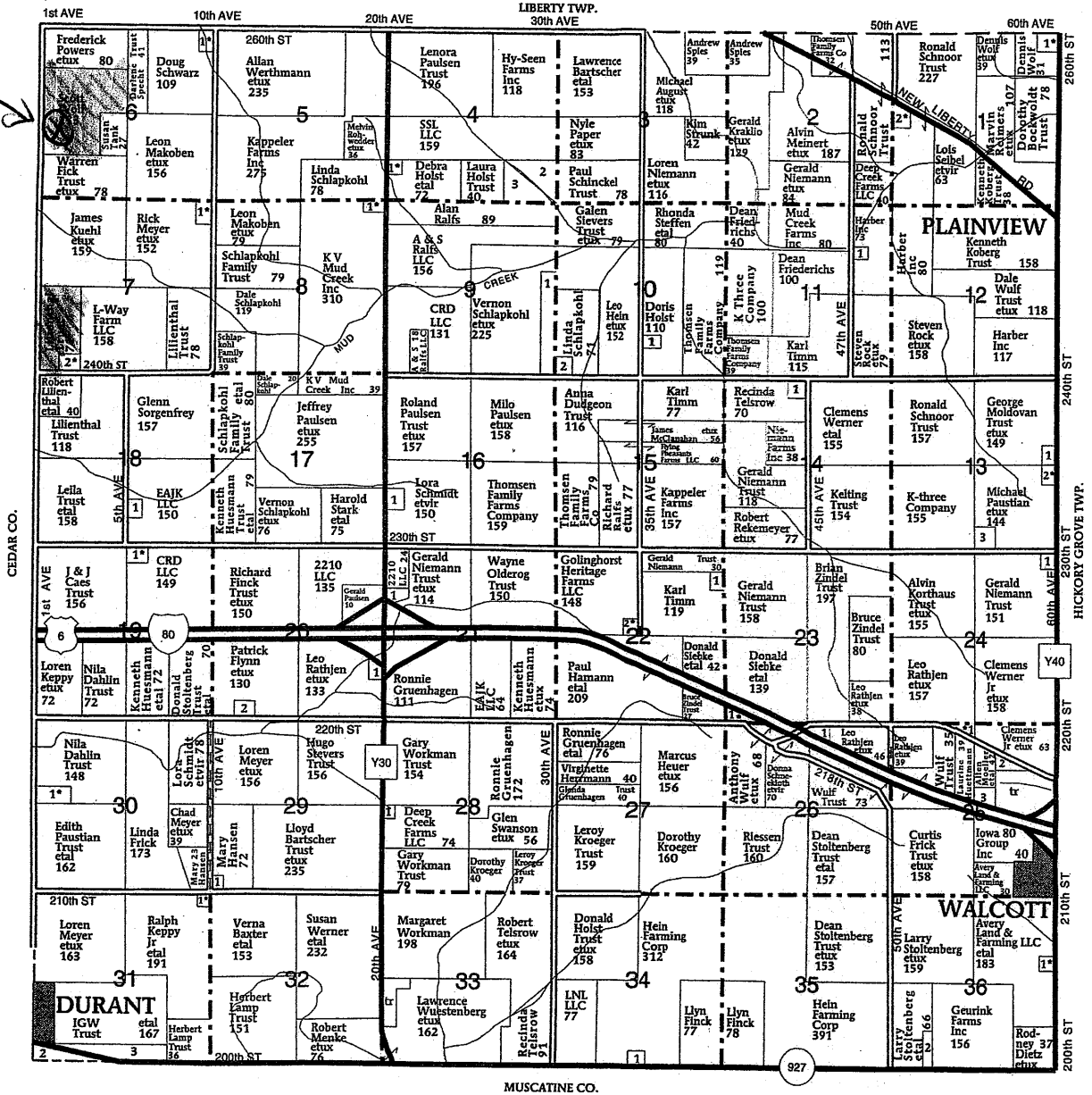
T-79-N

CLEONA PLAT

(Landowners)



R-1-E



CLEONA TOWNSHIP

SECTION 1

1. Kramer, Duane 7
2. Schnoor, Craig 12

SECTION 4

1. Kuehl, James 10
2. Schinckel Trust, Paul 21

SECTION 11

3. Holst, Debra 20

SECTION 6

1. Samuels, Jesse 6

SECTION 7

1. Hamilton, James 6
2. Lillenthal, Robert 9

SECTION 8

1. Schlapkohl, Keith 6

SECTION 9

1. Schlapkohl, Linda 9

SECTION 10

1. Hamrighausen, Carmen 6

SECTION 11

2. Wegener, Lucas 8

SECTION 13

1. KV Mud Creek Inc 6

SECTION 13

1. Claussen, Kyle 5
2. Kolwey, William 5
3. Paustian Enterprises LTD 6

SECTION 14

1. Rochholz, Kenneth 9

SECTION 16

1. Schmidt, Michael 5

SECTION 18

1. Huesmann, Kyle 6

SECTION 19

1. Jacobsen, Sarah 5

SECTION 20

1. Interchange Development Corp 6

SECTION 21

2. Fick, Ronald 14

SECTION 21

1. IBP INC 5

SECTION 22

1. Schueller, Daryl 8
2. Strayer, Mitchell 5

SECTION 23

1. Wulf, Anthony 12

SECTION 24

1. Bolden, Ednell 5

SECTION 25

1. Rathjen, Leo 5
2. Avery Partners LLC 9

SECTION 25

3. Exit 284 Land & Development 21

SECTION 26

1. Zindel Trust, Brian 10

SECTION 28

1. Randall, Lee 5

SECTION 29

1. Schemmel, Dean 5

SECTION 30

1. Keppy, Loren 14

SECTION 31

1. Schemmel, Thomas 7
2. Durant Cemetery Assoc 5

SECTION 31

3. Paulsen, Darwin 25

SECTION 34

1. Williams, Larry 6

SECTION 36

1. Taylor, Robert 6
2. Stoltenberg, Larry 11



v. 1/22/2007

Iowa Phosphorus Index

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

Field Number	Erosion				Runoff				Tile / Subsurface Recharge				Overall P Index		
	Gross Erosion	Sediment Trap Factor	SDR x Factor	Buffer x Factor	Enrichment x Factor	STP Factor	Erosion PI	RCN Factor	STP (Factor + Factor)	P App Factor	Runoff PI	Flow Factor		STP Factor	Tile/Sub PI
Steffen --	7.90	1.00	0.36	1.00	1.10	0.86	2.66	1.40	0.24	0.07	0.43	1.00	0.08	0.08	3.17
Cedar Co. --	2.30	1.00	0.51	1.00	1.10	0.90	1.16	1.44	0.29	0.07	0.51	1.00	0.08	0.08	1.75
Dale --	7.90	1.00	0.41	1.00	1.10	1.02	3.57	1.37	0.43	0.03	0.63	1.00	0.08	0.08	4.28
Stuben(Mangles) --	2.30	1.00	0.43	1.00	1.10	0.80	0.87	1.44	0.17	0.09	0.36	1.00	0.08	0.08	1.32
Sunbury Corner --	2.30	1.00	0.36	1.00	1.10	0.78	0.71	1.44	0.14	0.09	0.33	1.00	0.08	0.08	1.12
Field 1 --	3.10	1.00	0.45	1.00	1.10	0.93	1.42	1.40	0.32	0.09	0.57	1.00	0.08	0.08	2.07

SCOTT WOLF MMP
Manure Analysis

Year	N	P
2013	42.2	54.1
2009	51.1	20
2008	44.8	25.6
2007	43.9	34.3
2006	41.7	9.1
AVG	44.74	28.62

SCOTT WOLF MMP FIELD YIELDS

FIELD NAME	YIELDS	
	CORN	SOYBEANS
WOLF FIELD 1	229	66
STEFFEN	225	65
DALE'S	234	68
STUBBEN	233	68
SUNBURY CORNER	234	68
AVERAGE	231	67

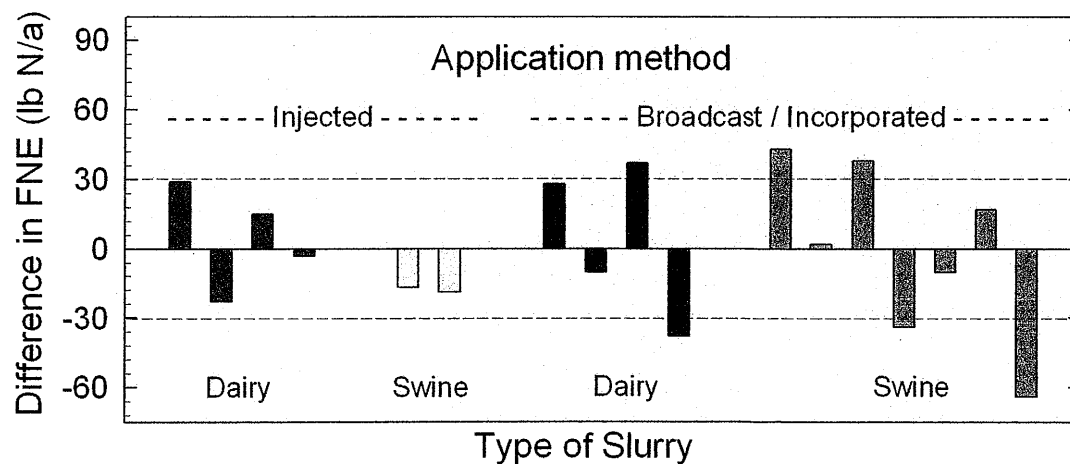
University of Minnesota Extension Fact Sheet

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	Loss	10	20	40	5	10
	Year 1 availability	55	40	20	55	50
	Year 2 availability	25	25	25	25	25
Swine	Loss	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.

Land Application Agreement

Agreed this date April 21, 2016 between Scott Wolf, herein known as "producer" and Avery Land & Farming, herein known as "landlord."

The producer will apply manure generated at swine production facilities located at:
25531 1st Ave, New Liberty, IA

The landowner acknowledges the use of 240.2 acres of land by the producer for the spreading of manure and such land is located at:
Cedar Co, IA T79N R1W Section 11& 12. USDA farm # 4193 tracts 2649, 7308, 7312

This manure agreement will begin April 21, 2016 for an initial term of one (1) year and continue thereafter for so long as the swine facility remains in operation. This agreement may be terminated by written notice signed by the parties involved. There needs to be at least 120 day notice of termination.

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 landlord 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.

The landlord acknowledges that a lease exists with Lilienthal Enterprises, Ltd concerning the cropping of said application land and this agreement is separate and independent from any cropping lease.

Producer

Landowner

By: Scott Wolf
Scott Wolf

By: David Meier, Avery Land & Farming, LLC
David Meier

Date: 5-4-16

Date: 4-28-16

Land Application Agreement

Agreed this date April 21, 2016 between Scott Wolf, herein known as "producer" and Dale Lilienthal, herein known as "landlord."

The producer will apply manure generated at swine production facilities located at:
25531 1st Ave, New Liberty, IA

The landowner acknowledges the use of 77.34 acres of land by the producer for the spreading of manure and such land is located at:

Cedar Co IA, T79N R1W Sec 13, USDA farm #4543 Tract #68

This manure agreement will begin April 21, 2016 for an initial term of one (1) year and continue thereafter for so long as the swine facility remains in operation. This agreement may be terminated by written notice signed by the parties involved. There needs to be at least 120 day notice of termination.

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 landlord 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.

The landlord acknowledges that a lease exists with Lilienthal Enterprises, Ltd concerning the cropping of said application land and this agreement is separate and independent from any cropping lease.

Producer

Landowner

By: Scott Wolf
Scott Wolf

By: Dale Lilienthal
Dale Lilienthal

Date: 5-4-16

Date: 3 May 16

Land Application Agreement

Agreed this date April 21, 2016 between Scott Wolf, herein known as "producer" and Ronald Schnoor, herein known as "landlord."

The producer will apply manure generated at swine production facilities located at:
25531 1st Ave, New Liberty, IA

The landowner acknowledges the use of 157.96 & 142.6 acres of land by the producer for the spreading of manure and such land is located at:

Scott Co, IA T79N R1E Sec 1-2, USDA farm #4911 tract 4128 & 2648
Scott Co, IA T79N R1E Sec 13. USDA farm # 4911 tract 373

This manure agreement will begin April 21, 2016 for an initial term of one (1) year and continue thereafter for so long as the swine facility remains in operation. This agreement may be terminated by written notice signed by the parties involved. There needs to be at least 120 day notice of termination.

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 landlord 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.

The landlord acknowledges that a lease exists with Lilienthal Enterprises, Ltd concerning the cropping of said application land and this agreement is separate and independent from any cropping lease.

Producer

Landowner

By: Scott Wolf
Scott Wolf

By: Ronald H. Schnoor
Ronald Schnoor

Date: 5-4-16

Date: 4-28 2016

RUSLE2 Profile Erosion Calculation Record

Field 1 - Wolf

Inputs:

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

Management	Vegetation	Yield units	# yield units, #/ac
managements\CMZ 04\c.Other Local Mgt Records\CC wolf 2015	vegetations\Corn, grain	bushels	195.00

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	Base yield	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	3.1	3.1	3.1	3.1	0.053	0.37	200	66

Date	Operation	Vegetation	Surf. res. cov. after op, %
11/1/0	Manure injector, liquid high disturb.30 inch		88
4/9/1	Disk, single gang		65
4/9/1	Cultivator, field 6-12 in sweeps, coil tine har		65
4/9/1	Sprayer, pre-emergence		65
4/10/1	planter, double disk opnr	Corn, grain	66
5/29/1	Sprayer, post emergence and fert. tank mix		60
10/20/1	Harvest, killing crop 50pct standing stubble		88

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)	5.9	810000	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
0.742	1.5	0.42	-0.22	58.6	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

Dale, Cedar Co. S, Steffen, -- Scott Wolf

Inputs:

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

Management	Vegetation	Yield units	# yield units, #/ac
managements\CMZ 04\c.Other Local Mgt Records\ccb rockow2015alt	vegetations\Corn, grain, high yield	bushels	221.00
managements\CMZ 04\c.Other Local Mgt Records\ccb rockow2015alt	vegetations\Corn, grain, high yield	bushels	221.00
managements\CMZ 04\c.Other Local Mgt Records\ccb rockow2015alt	vegetations\Soybean, mw 30 in rows	bu	64.000

Contouring	Strips/barriers	Diversion/terrace, sediment basin	Subsurface drainage	Adjust res. burial level	General yield level	Rock cover, %
b. absolute row grade 3 percent	(none)	(none)	(none)	Normal res. burial	Base yield	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	7.9	7.9	7.9	7.9	0.13	0.37	200	

Date	Operation	Vegetation	Surf. res. cov. after op, %
10/1/0	Disk, tandem light finishing		3.9
10/8/0	Manure injector, liquid high disturb.30 inch		2.9
3/30/1	Cultivator, field 6-12 in sweeps, coil tine har		1.4
3/30/1	Sprayer, pre-emergence		1.4
3/30/1	Planter, double disk opnr	Corn, grain, high yield	1.4
5/28/1	Sprayer, post emergence and fert. tank mix		14
10/20/1	Harvest, killing crop 50pct standing stubble		77
10/20/1	Disk, tandem light finishing		77
10/23/1	Manure injector, liquid high disturb.30 inch		75
4/20/2	Cultivator, field 6-12 in sweeps, coil tine har		57
5/10/2	Sprayer, pre-emergence		54
5/10/2	Planter, double disk opnr	Corn, grain, high yield	54
6/7/2	Sprayer, post emergence		53
9/29/2	Harvest, killing crop 50pct standing stubble		89
5/5/3	Sprayer, pre-emergence		88
5/5/3	Planter, double disk opnr	Soybean, mw 30 in rows	88
6/2/3	Sprayer, post emergence		86
8/4/3	Sprayer, insecticide post emergence		67
10/6/3	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)	13	1900000	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
0.0786	0.56	0.70	-2.1	30.1	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

Sunbury Corner, Stuben(Mangles) – Scott Wolf

Inputs:

Location: USA\Iowa\Cedar County
 Soil: Cedar County, Iowa\120B Tama silty clay loam, 2 to 5 percent slopes\Tama Silty clay loam 95%
 Slope length (horiz): 200 ft
 Avg. slope steepness: 4.0 %

Management	Vegetation	Yield units	# yield units, #/ac
managements\CMZ 04\c.Other Local Mgt Records\LILIENTHAL CCB Corn Fall NH3, Spgfcult- Corn Fall NH3, DiskChisel twisted, spgfcult -Soybeans DiskChisel twisted, spgfcult	vegetations\Corn, grain	bushels	235.00
managements\CMZ 04\c.Other Local Mgt Records\LILIENTHAL CCB Corn Fall NH3, Spgfcult- Corn Fall NH3, DiskChisel twisted, spgfcult -Soybeans DiskChisel twisted, spgfcult	vegetations\Corn, grain	bushels	235.00
managements\CMZ 04\c.Other Local Mgt Records\LILIENTHAL CCB Corn Fall NH3, Spgfcult- Corn Fall NH3, DiskChisel twisted, spgfcult -Soybeans DiskChisel twisted, spgfcult	vegetations\Soybean, mw 30 in rows	bu	68.000

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:

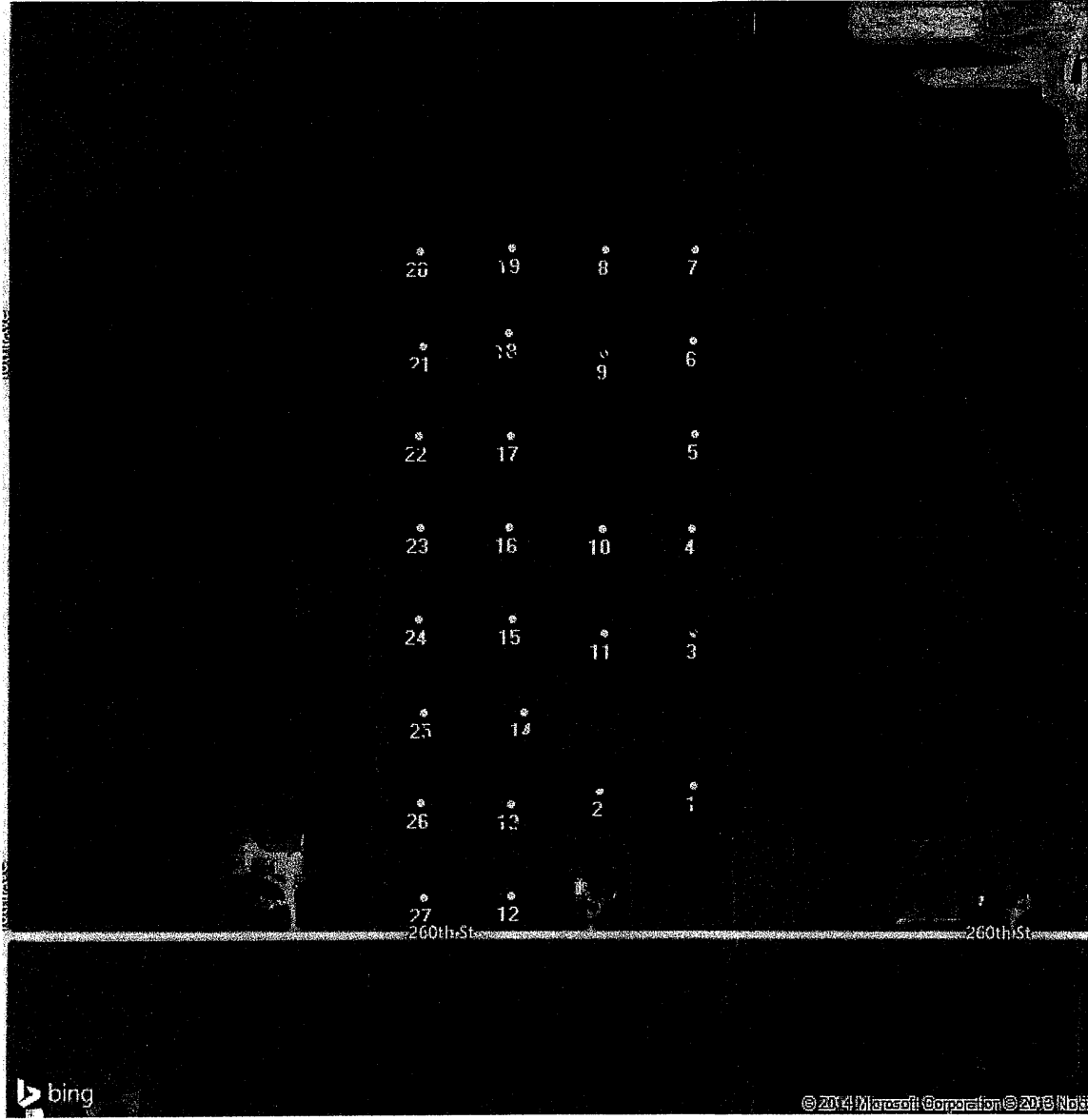
T value: 5.0 t/ac/yr
 Soil loss erod. portion: 2.3 t/ac/yr
 Detachment on slope: 2.3 t/ac/yr
 Soil loss for cons. plan: 2.3 t/ac/yr
 Sediment delivery: 2.3 t/ac/yr

Crit. slope length: 200 ft
 Surf. cover after planting: -- %
 Avg. ann. forage harvest: 0 lb/ac

Date	Operation	Vegetation	Surf. res. cov. after op, %
10/16/0	Fert. applic. anhyd knife 30 in		93
11/1/0	Manure injector, liquid low disturb.30 inch		89
4/15/1	Cultivator, field 6-12 in shovels C		43
5/1/1	Sprayer, pre-emergence		38
5/1/1	Planter, double disk opnr	Corn, grain	38
6/7/1	Sprayer, post emergence		26
10/10/1	Harvest, killing crop 50pct standing stubble		91
10/15/1	Fert. applic. anhyd knife 30 in		95
11/1/1	Manure injector, liquid low disturb.30 inch		96
4/15/2	Cultivator, field 6-12 in shovels C		76
5/1/2	Sprayer, pre-emergence		74
5/1/2	Planter, double disk opnr	Corn, grain	74
6/7/2	Sprayer, post emergence		64
10/10/2	Harvest, killing crop 50pct standing stubble		93
5/15/3	Sprayer, pre-emergence		92
5/15/3	Planter, double disk opnr	Soybean, mw 30 in rows	92
6/7/3	Sprayer, post emergence		90
8/1/3	Sprayer, insecticide post emergence		73
10/15/3	Harvest, killing crop 20pct standing stubble		94

Lilienthal Enterprises | Sunbury
Durant | Steffen | 2014 | 70.6 acres
Field Sampled on 5/27/2014

Sample No



Maps as of 5/28/2014

REPORT NUMBER

14-142-0020

ACCOUNT 7721

REPORT DATE May 27, 2014

RECEIVED DATE May 22, 2014



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TODAY'S DATE May 27, 2014

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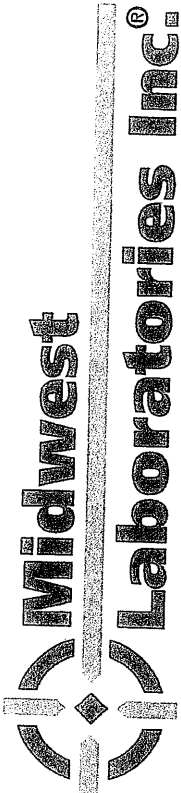
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STEFFEN

RIVER VALLEY COOP
MASTER ACCOUNT

Lab Number	Sample ID	OM %	Phosphorus			Ca ppm	Mg ppm	Na ppm	pH	Buff index	CEC meq/100	Percent Base Saturation				Nitrate			S ppm	Zn ppm	Mn ppm	Fe ppm	Cu ppm	B ppm	Excess Soluble		NH3-N ppm	MP3 Color ppm							
			P1 ppm	P2 ppm	Bic ppm							K ppm	Mg ppm	Ca ppm	H ppm	Na ppm	Surface lbs/A	depth lbs/A							Total lbs/A	Lime Rate			Salts						
26668082	1	2.6	34	46		214	646	2918	6.8	20.5	2.7	26.3	71.0	0.0				0-6																	
26668083	2	2.9	136	144		606	464	2168	7.2	16.3	9.5	23.7	66.8	0.0				0-6																	
26668084	3	1.5	32	40		143	598	2515	7.2	17.9	2.0	27.8	70.2	0.0				0-6																	
26668085	4	2.2	34	47		190	561	2801	7.1	19.2	2.5	24.3	73.2	0.0				0-6																	
26668086	5	2.4	28	31		198	449	2585	6.3	6.7	19.2	2.6	19.5	67.3	10.6			0-6																	
26668087	6	2.7	21	26		196	334	2332	6.9	14.9	3.4	18.7	77.9	0.0				0-6																	
26668088	7	3.2	32	35		209	260	2059	6.1	6.7	15.1	3.5	14.3	68.2	14.0			0-6																	
26668089	8	2.7	28	29		270	327	2192	6.5	6.8	15.6	4.4	17.5	70.3	7.8			0-6																	
26668090	9	2.6	28	32		248	369	2461	7.1	16.0	4.0	19.2	76.8	0.0				0-6																	
26668091	10	2.1	18	28		170	525	2264	6.9	16.1	2.7	27.2	70.1	0.0				0-6																	
26668092	11	2.9	23	39		239	445	2384	7.0	16.2	3.8	22.9	73.3	0.0				0-6																	
26668093	12	3.4	51	88		225	470	2279	7.7	15.9	3.6	24.6	71.8	0.0				0-6																	
26668094	13	2.3	37	49		211	628	2866	7.0	20.1	2.7	26.0	71.3	0.0				0-6																	
26668095	14	2.6	36	48		240	419	2150	7.1	14.9	4.1	23.4	72.5	0.0				0-6																	
26668096	15	3.1	28	33		189	368	2109	7.0	14.1	3.4	21.7	74.9	0.0				0-6																	
26668097	16	2.3	42	52		211	666	2621	6.7	19.2	2.8	28.9	68.3	0.0				0-6																	
26668098	17	2.9	35	39		230	434	2627	7.0	17.3	3.4	20.9	75.7	0.0				0-6																	
26668099	18	3.5	50	56		269	412	2971	7.1	19.0	3.6	18.1	78.3	0.0				0-6																	
26668100	19	2.9	23	28		243	513	3066	7.3	20.2	3.1	21.2	75.7	0.0				0-6																	
26668101	20	2.6	29	34		229	450	2728	7.1	18.0	3.3	20.8	75.9	0.0				0-6																	
26668102	21	2.3	27	44		219	601	3234	7.3	21.7	2.6	23.1	74.3	0.0				0-6																	
26668103	22	2.9	47	61		285	318	2366	6.7	15.2	4.8	17.4	77.8	0.0				0-6																	
26668104	23	2.8	26	31		252	468	2246	6.5	6.8	17.1	3.8	22.8	65.7	7.7			0-6																	
26668105	24	3.1	24	29		199	397	2318	6.9	15.4	3.3	21.5	75.2	0.0				0-6																	
26668106	25	2.5	50	59		194	628	2570	6.3	6.7	20.8	2.4	25.2	61.8	10.6			0-6																	
26668107	26	2.4	28	33		205	391	2093	7.0	14.2	3.7	22.9	73.4	0.0				0-6																	
26668108	27	3.5	48	91		266	578	2877	7.6	19.9	3.4	24.2	72.4	0.0				0-6																	

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11-137-0011
 REPORT DATE
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 MASTER ACCOUNT
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DWA RIVER VALLEY COOPERATIVE
 DEAN LIEVENS/GRID ACCOUNT/IOWA
 108 PROGRESS LANE
 GENESEO IL 61254

SOIL ANALYSIS REPORT

INFO SHEET: 381287

LAB NUMBER	SAMPLE IDENTIFICATION	PHOSPHORUS			POTASSIUM			SODIUM			pH	BUFFER INDEX	CATION EXCHANGE CAPACITY (CEC) (meq/100g)	PERCENT BASE SATURATION (COMPUTED)			
		P (WEAK) (ppm)	P (STRONG) (ppm)	P (TOTAL) (ppm)	K (ppm)	Ca (ppm)	Mg (ppm)	Na (ppm)	SOIL pH	% Vg				% Ca	% K	% Mg	% Na
20948	1	85	130	236	507	2961	7.2	19.6	3.1	21.6	75.3	0.0					
20949	2	62	126	202	490	2925	7.2	19.2	2.7	21.3	76.0	0.0					
20950	3	75	116	199	482	2946	7.4	19.3	2.6	20.8	76.6	0.0					
20952	4	63	105	156	510	2755	7.2	18.4	2.2	23.1	74.7	0.0					
20953	5	57	99	162	467	2731	7.1	18.0	2.3	21.6	76.1	0.0					
20954	6	49	85	167	479	2871	7.2	18.8	2.3	21.2	76.5	0.0					
20955	7	39	91	157	466	2629	7.2	17.4	2.3	22.3	75.4	0.0					
20956	8	36	48	149	480	2399	6.8	16.4	2.3	24.4	73.3	0.0					
20957	9	49	69	203	412	2622	6.8	17.1	3.0	20.1	76.9	0.0					
20958	10	44	58	166	330	2251	6.7	14.4	3.0	19.1	77.9	0.0					

LAB NUMBER	SLAGE	NITRATE-N (NIA)				SULFUR		ZINC		MANGANESE		IRON		COPPER		BORON		EXCESS LIME RATE	SORBIBLE SALTS (1)	
		depth (in)	depth (in)	depth (in)	depth (in)	ppm	lb/a	ppm	lb/a	ppm	lb/a	ppm	lb/a	ppm	lb/a	ppm	lb/a			
20948		0-6																	mmhos/cm	
20949		0-6																		
20950		0-6																		
20952		0-6																		
20953		0-6																		
20954		0-6																		
20955		0-6																		
20956		0-6																		
20957		0-6																		
20958		0-6																		

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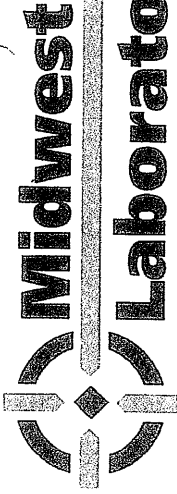
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RIVER VALLEY COOP
 MASTER ACCOUNT

PAGE 2/3

SOIL ANALYSIS REPORT

LAB NUMBER	SAMPLE IDENTIFICATION	ORGANIC MATTER			PHOSPHORUS		NEUTRAL AMMONIUM/NITRATE (EXCHANGABLE)			SODIUM Na ppm	CALCIUM Ca ppm	MAGNESIUM Mg ppm	POTASSIUM K ppm	CATION EXCHANGE CAPACITY CEC meq/100g	pH	BUFFER INDEX	PERCENT BASE SATURATION (COMPUTED)				INFO SHEET: 381287
		LOI Percent	Modified LOI Percent	WATIER	P (WEAK BRAY) ppm	P (STRONG BRAY) ppm	BICARBONATE P ppm	N	AMMONIUM								NITRATE	% C	% H	% Na	
20959	11	3.7	52	81	198	404	2866	6.8	6.8	18.2	2.8	18.5	78.7	0.0							
20960	12	3.5	68	99	227	391	2793	6.6	6.8	18.9	3.1	17.2	73.9	5.8							
20961	13	3.2	51	70	195	417	2628	6.9		17.1	2.9	20.3	76.8	0.0							
20962	14	3.0	54	79	200	445	2692	6.8		17.7	2.9	21.0	76.1	0.0							
20963	15	3.8	119	144	192	455	3336	7.3		21.0	2.3	18.1	79.6	0.0							
20964	16	3.6	56	96	271	442	3113	6.7		19.9	3.5	18.5	78.0	0.0							
20965	17	3.6	51	117	218	338	2819	6.8		17.5	3.2	16.1	80.7	0.0							
20966	18	3.7	49	116	180	324	2779	6.9		17.1	2.7	15.8	81.5	0.0							
20967	19	4.2	51	140	220	390	3192	6.7		19.8	2.8	16.4	80.8	0.0							
20968	20	3.3	48	107	239	386	2853	6.6	6.8	19.3	3.2	16.7	73.9	6.2							

LAB NUMBER	SURFACE		SUBSOILED		SULFUR S ppm	ZINC Zn ppm	MANGANESE Mn ppm	IRON Fe ppm	COPPER Cu ppm	BORON B ppm	SOLUBLE SALTS mmhos/cm
	lb/A	depth (in)	lb/A	depth (in)							
226											
20959	0-6										
20960	0-6										
20961	0-6										
20962	0-6										
20963	0-6										
20964	0-6										
20965	0-6										
20966	0-6										
20967	0-6										
20968	0-6										

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REPORT NUMBER

11-137-0011

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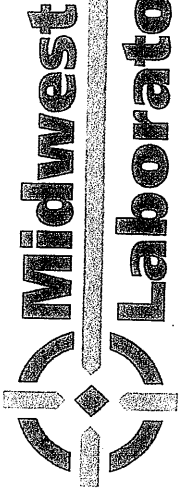
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SOIL ANALYSIS REPORT

LAB NUMBER	SAMPLE IDENTIFICATION	ORGANIC MATTER MODIFIED LOSS PERCENT	PHOSPHORUS		POTASSIUM		MAGNESIUM		CALCIUM		SODIUM		pH	BUFFER INDEX	CATION EXCHANGE CAPACITY CEC (meq/100g)	PERCENT BASE SATURATION (COMPUTED)				EMISS RATE	SOLUBLE SALTS
			P (MEAN) ppm	P (STRONG) ppm	CaCO ₃ ppm	Ca ppm	Mg ppm	K ppm	Na ppm	% Ca	% Mg	% K				% Na	% H	% Na			
20969	21	3.3	45	55	207	292	2354	292	2354	207	292	2354	6.2	6.7	16.7	3.2	14.6	70.5	11.7		
20970	22	3.1	63	80	243	358	2555	358	2555	243	358	2555	6.6	6.9	17.4	3.6	17.1	73.4	5.9		
20971	23	2.8	48	62	247	292	2239	292	2239	247	292	2239	6.2	6.7	16.2	3.9	15.0	69.1	12.0		
20972	24	3.3	78	96	278	337	2608	337	2608	278	337	2608	6.2	6.7	18.9	3.8	14.9	69.0	12.3		
20973	25	3.8	79	134	258	285	2722	285	2722	258	285	2722	6.6	6.8	17.7	3.7	13.4	76.9	6.0		
20974	26	3.7	77	128	285	362	2910	362	2910	285	362	2910	6.6	6.8	19.5	3.7	15.5	74.6	6.2		
20975	27	4.1	45	89	209	359	2774	359	2774	209	359	2774	6.4	6.7	19.1	2.8	15.7	72.6	8.9		
20976	28	3.5	46	77	193	307	2506	307	2506	193	307	2506	6.5	6.8	16.9	2.9	15.1	74.1	7.9		
20977	29	3.5	65	113	164	335	3005	335	3005	164	335	3005	6.8	6.8	18.2	2.3	15.3	82.4	0.0		
20978	30	3.2	63	101	128	386	3183	386	3183	128	386	3183	7.5	7.5	19.5	1.7	16.5	81.8	0.0		
LAB NUMBER	SURFACE	NITRATE-N (NIA)		SULFUR		ZINC		MANGANESE		IRON		COPPER		BORON		EMISS RATE	SOLUBLE SALTS				
		ppm	depth (in)	ppm	depth (in)	ppm	depth (in)	ppm	depth (in)	ppm	depth (in)	ppm	depth (in)	ppm	depth (in)						
20969		0-6		0-6																	
20970		0-6		0-6																	
20971		0-6		0-6																	
20972		0-6		0-6																	
20973		0-6		0-6																	
20974		0-6		0-6																	
20975		0-6		0-6																	
20976		0-6		0-6																	
20977		0-6		0-6																	
20978		0-6		0-6																	

REV. 12/03

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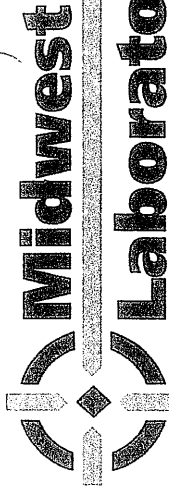
REPORT NUMBER

12-08-0064

REPORT DATE Mar 29, 2012

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CEDAR 790N 10W 12

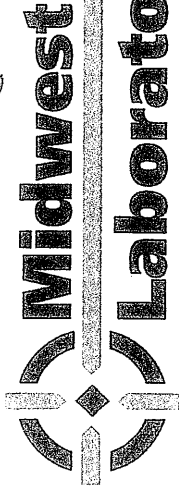
RIVER VALLEY COOP
MASTER ACCOUNT

PAGE 1/3

ISSUE DATE Mar 29, 2012

Lab Number	Sample ID	OM %	Phosphorus			K ppm	Mg ppm	Ca ppm	Na ppm	pH	Buff index	CEC (meq/100)	Percent Base Saturation			Nitrate			S ppm	Zn ppm	Mn ppm	Fe ppm	Cu ppm	B ppm	Excess Soluble NH3		MP3 Color
			P1 ppm	P2 ppm	Bic ppm								K ppm	Mg ppm	Ca ppm	H ppm	Na ppm	Surface lbs/A							depth lbs/A	Total lbs/A	
23774991	1	2.8	20	25	197	622	2907		7.4		20.2	2.5	25.7	71.8	0.0	0.6											43
23774992	2	2.8	19	31	216	600	2931		7.5		20.2	2.7	24.8	72.5	0.0	0.6											39
23774993	3	2.9	23	33	191	579	2816		7.4		19.4	2.5	24.9	72.6	0.0	0.6											46
23774994	4	3.1	25	35	210	628	2932		7.5		20.4	2.6	25.7	71.7	0.0	0.6											49
23774995	5	2.6	11	15	167	563	2579		7.5		18.0	2.4	26.1	71.5	0.0	0.6											29
23774996	6	3.4	34	47	223	597	2845		6.8		18.3	3.1	27.2	69.7	0.0	0.6											
23774998	7	3.9	12	16	197	734	3314		7.1		23.2	2.2	26.4	71.4	0.0	0.6											
23774999	8	3.7	45	63	205	721	3163		7.4		22.3	2.4	26.9	70.7	0.0	0.6											
23775000	9	2.8	20	24	201	734	2946		7.5		21.4	2.4	28.6	69.0	0.0	0.6											
23775001	10	3.1	9	11	168	520	2359		6.4	6.8	18.2	2.4	23.8	64.8	9.0	0.6											88
23775002	11	3.7	11	14	207	665	3132		6.8		21.7	2.4	25.5	72.1	0.0	0.6											42
23775003	12	3.2	14	21	164	537	2654		6.7		18.2	2.3	24.6	73.1	0.0	0.6											
23775004	13	3.1	29	47	208	598	2535		7.1		18.2	2.9	27.4	69.7	0.0	0.6											
23775005	14	2.6	8	11	170	506	2078		6.7		15.0	2.9	28.1	69.0	0.0	0.6											
23775006	15	2.7	9	11	164	536	2206		6.7		15.9	2.6	28.1	69.3	0.0	0.6											
23775007	16	2.7	10	13	173	492	2133		6.6	6.9	16.2	2.7	25.3	65.8	6.2	0.6											
23775008	17	2.5	8	10	184	535	2248		7.0		16.2	2.9	27.5	69.6	0.0	0.6											
23775009	18	2.4	6	8	160	566	2201		6.5	6.8	17.4	2.4	27.1	63.2	7.3	0.6											
23775010	19	2.6	7	8	174	565	2261		6.6	6.8	17.6	2.5	26.8	64.2	6.5	0.6											
23775011	20	2.3	8	9	165	615	2331		6.4	6.7	18.9	2.2	27.1	61.7	9.0	0.6											
23775012	21	3.7	29	43	271	668	2884		6.7		20.7	3.4	26.9	69.7	0.0	0.6											
23775013	22	3.8	12	18	214	672	2966		6.9		21.0	2.6	26.7	70.7	0.0	0.6											
23775014	23	3.4	14	18	209	555	2673		6.5	6.8	20.0	2.7	23.1	66.8	7.4	0.6											
23775015	24	3.0	11	15	175	543	2524		6.8		17.6	2.5	25.7	71.8	0.0	0.6											59
23775016	25	3.1	28	42	177	678	2771		7.6		20.0	2.3	28.3	69.4	0.0	0.6											40
23775017	26	2.8	18	27	192	688	2731		7.6		19.9	2.5	28.8	68.7	0.0	0.6											
23775018	27	2.8	8	10	171	596	2513		6.8		18.0	2.4	27.6	70.0	0.0	0.6											
23775019	28	3.3	11	15	146	502	2386		6.6	6.8	17.6	2.1	23.8	67.8	6.3	0.6											
23775020	29	3.7	12	15	174	502	2349		6.4	6.8	18.0	2.5	23.2	65.2	9.1	0.6											
23775021	30	3.6	18	22	193	579	2827		6.5	6.8	18.9	2.6	25.5	64.2	7.7	0.6											
23775022	31	2.5	8	10	164	438	1763		6.3	6.8	14.4	2.9	25.3	61.2	10.6	0.6											
23775023	32	2.6	8	10	185	514	2020		6.3	6.7	16.6	2.9	25.8	60.8	10.5	0.6											

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IDENTIFICATION

IOWA RIVER VALLEY COOPERATIVE
DEAN LIEVENS/GRID ACCOUNT/IOWA
108 PROGRESS LANE
GENESEO IL 61254

LILIENTHAL ENTERPRISES
DURANT
STUEBENS

CEDAR 790N 10W 12

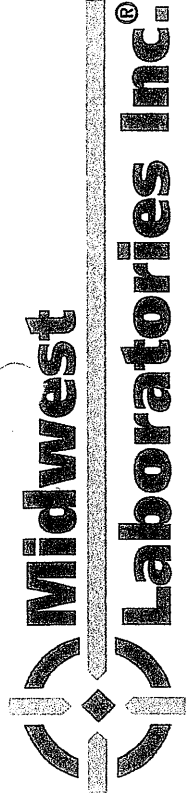
RIVER VALLEY COOP
MASTER ACCOUNT

Lab Number	Sample ID	OM %	Phosphorus			Ca ppm	Na ppm	pH	Buff index	CEC meq/100	Percent Base Saturation				Nitrate		Zn ppm	Mn ppm	Fe ppm	Cu ppm	B ppm	Excess Soluble NH3		MP3 Color ppm						
			P1 ppm	P2 ppm	Bic ppm						K ppm	Mg ppm	Ca ppm	H ppm	Na ppm	Surface lbs/A						depth lbs/A	Rate		N ppm					
23775024	33	2.5	7	8		159	484	1938	6.4	6.8	15.5	2.6	26.0	62.5	8.9															
23775025	34	2.3	7	8		146	518	2062	6.4	6.8	16.5	2.3	26.2	62.5	9.0															
23775026	35	2.4	7	8		141	539	2077	6.5	6.8	16.4	2.2	27.4	63.3	7.1															
23775027	36	2.7	9	12		200	526	2124	6.3	6.7	17.3	3.0	25.3	61.4	10.3															
23775028	37	2.4	6	9		158	653	2446	6.8		18.1	2.2	30.1	67.7	0.0															
23775029	38	2.8	9	11		184	544	2223	6.2	6.7	18.3	2.6	24.8	60.7	11.9															
23775030	39	2.7	7	8		159	493	1978	6.4	6.8	15.8	2.6	26.0	62.6	8.8															
23775031	40	2.8	9	12		147	415	2523	6.5	6.8	17.8	2.1	19.4	70.9	7.6															
23775032	41	3.1	13	18		164	458	2866	6.5	6.8	20.1	2.1	19.0	71.3	7.6															
23775033	42	3.3	26	36		171	492	2807	6.7		18.6	2.4	22.0	75.6	0.0															
23775034	43	3.7	62	98		209	519	3225	6.8		21.0	2.6	20.6	76.8	0.0															
23775035	44	3.5	57	90		238	508	3528	6.8		22.5	2.7	18.8	78.5	0.0															
23775037	45	2.8	27	42		131	436	2798	7.2		18.0	1.9	20.2	77.9	0.0															
23775038	46	3.1	20	31		149	540	2673	6.8		18.2	2.1	24.7	73.2	0.0															
23775039	47	4.1	39	66		130	724	3140	7.4		22.1	1.5	27.3	71.2	0.0															
23775040	48	3.1	47	81		133	718	3046	7.6		21.6	1.6	27.7	70.7	0.0															
23775041	49	3.1	29	40		140	590	2859	6.7		19.6	1.8	25.1	73.1	0.0															
23775042	50	3.2	28	42		180	489	3067	7.0		19.9	2.3	20.5	77.2	0.0															
23775043	51	3.2	42	61		153	424	2711	6.9		17.5	2.2	20.2	77.6	0.0															
23775044	52	2.8	28	35		163	426	2460	6.8		16.3	2.6	21.8	75.6	0.0															
23775045	53	3.2	45	65		153	527	3132	6.8		20.4	1.9	21.5	76.6	0.0															
23775046	54	2.9	13	18		205	384	2577	6.5	6.8	17.9	2.9	17.9	72.0	7.2															
23775047	55	2.8	24	34		155	333	2369	6.6	6.9	16.0	2.5	17.3	73.7	6.5															
23775048	56	2.4	26	36		191	435	2473	6.7		16.5	3.0	22.0	75.0	0.0															
23775049	57	2.6	38	56		157	439	2544	7.0		16.8	2.4	21.8	75.8	0.0															
23775050	58	2.8	37	52		169	507	2717	6.8		18.2	2.4	23.2	74.4	0.0															
23775051	59	2.7	38	53		123	474	2607	7.1		17.3	1.8	22.8	75.4	0.0															
23775052	60	2.8	34	52		128	457	2775	7.3		18.0	1.8	21.2	77.0	0.0															
23775053	61	3.0	31	52		153	393	2880	7.2		18.1	2.2	18.1	79.7	0.0															
23775054	62	3.3	79	125		252	502	2502	7.0		17.3	3.7	24.2	72.1	0.0															
23775055	63	3.2	59	99		184	485	2882	7.3		18.9	2.5	21.4	76.1	0.0															
23775056	64	2.5	24	39		195	605	3298	7.0		22.0	2.3	22.9	74.8	0.0															

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REPORT NUMBER
12-06-0064
 REPORT DATE
 Mar 29, 2012
 RECEIVED DATE
 Mar 27, 2012

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PAGE 3/3
 ISSUE DATE
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RIVER VALLEY COOP
 MASTER ACCOUNT

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 108 PROGRESS LANE
 GENESEO IL 61254

LILIENTHAL ENTERPRISES
 DURANT
 STUEBENS
 CEDAR 790N 10W 12

Lab Number	Sample ID	OM %	Phosphorus			K ppm	Mg ppm	Ca ppm	Na ppm	pH	Buf index	CEC meq/100	Percent Base Saturation			Nitrate			Zn ppm	Mn ppm	Fe ppm	Cu ppm	B ppm	Excess Soluble		NH3-MP3	
			P1 ppm	P2 ppm	Bic ppm								K ppm	Mg ppm	Ca ppm	H ppm	Na ppm	Surface lbs/A						depth lbs/A	Total lbs/A	Rate	Salts
23775037	65	3.1	48	64	168	480	2753			7.0	18.2	2.4	22.0	75.6	0.0			0-6									
23775038	66	3.0	57	77	244	644	3010			6.6	22.3	2.8	24.1	67.5	5.6			0-6									
23775039	67	2.4	21	29	192	623	2916			7.1	20.3	2.4	25.6	72.0	0.0			0-6									
23775060	68	2.3	16	21	192	640	3265			7.0	22.2	2.2	24.0	73.8	0.0			0-6									

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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 owner(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 10-16). 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:

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): 64308
 - b. Date when the operation was first constructed: 2006
 - c. Date when the last construction, expansion or modification was completed: 2006.
(Not needed if the confinement operation has previously received a construction permit from DNR.)
 - d. Is this also an ownership change? Yes. No.

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

A) Name of operation: Scott Wolf

Location: NW SW 6 79N 1E Cleona Scott
(1/4 1/4) (1/4) (Section) (Tier & Range) (Name of Township) (County)

B) Owner information:

Name: Scott Wolf Title: Owner
 Address: 25279 1st Ave. New Libery, IA 52765
 Telephone: 563-785-4562 Fax: _____ Email: _____

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

Name: Carrie Keppy Title: Consultant
 Address: 13258 Slopertown Rd, Davenport, IA 52806
 Telephone: 515-979-6954 Fax: _____ Email: _____

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 or 14). 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 (515) 281-8941 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 www.iowaDNR.gov select the link to 'Mapping (GIS Interactive)', then check the [AFO Siting Atlas](#). If the site is not located in karst or potential karst, print and enclose the map with the name and location of the site clearly marked. If the site is in karst or potential karst, if you cannot access the map, or if you have questions about this issue, contact a DNR geologist at (515) 242-6848. Check one of the following:
- The site is not in karst or potential karst. Include documentation requested in checklist 1 or 2 (pages 10 or 13).
 - The DNR geologist has verified that the site is in karst. The upgraded concrete standards of 567 IAC 65.15(14)"c" must be used.
- B) Alluvial Soils Determination: Go to www.iowaDNR.gov, select the link to 'Mapping (GIS Interactive)', then check the [AFO Siting Atlas](#). If the site is not in potential alluvial soils, print and enclose the map with the name and location of the site clearly marked. If the site is in potential alluvial soils, if you cannot access the map, or if you have questions about this issue, contact a DNR geologist at (515) 242-6848. Check one of the following:
- The site is not in alluvial soils. Include documentation requested in checklist 1 or 2 (pages 10 or 13).
 - The DNR geologist has verified that the site is in alluvial soils. Check one of the following:
 - Not in 100-year floodplain or does not require a floodplain permit. Include correspondence from the DNR.
 - Requires floodplain permit. Include Floodplain Permit.

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.
Revised 04/2011 cmz

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

81'2" x 241' Wean to finish barn with an 8' concrete deep pit to house 2464hd 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.
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 on a dry form.

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 (515) 281-8941.

Table 1. Animal Unit Capacity (AUC): $(\text{No. HEAD}) \times (\text{FACTOR}) = \text{AUC}$

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	4864	0.4	1946
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	
TOTALS:			a) Existing AUC: 960			b) Total proposed AUC: 1946

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):

986

(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): $(\text{No. head}) * (\text{Avg. weight, lbs}) = \text{AWC, lbs}$

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						
TOTALS:			a) Existing AWC: <input type="text"/>			b) Total proposed AWC: <input type="text"/>

c) New AWC = b) - a):

<input type="text"/>

(This is the AWC of the operation)

ITEM 5 – SUBMITTAL REQUIREMENTS Checklists No. 1 or 2 (pages 10-16) 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:
1. A swine farrowing and gestating operation with an AUC of 1,250 AU or more. Use submittal checklist No. 2 (page 13.)
 2. A swine farrow-to-finish operation with an AUC of 2,750 AU or more. Use submittal checklist No. 2 (page 13.)
 3. A cattle confinement feeding operation (including dairies) with an AUC of 4,000 AU or more. Use submittal checklist No. 2 (page 13.)
 4. Other confinement feeding operations with an AUC of 3,000 AU or more. Use submittal checklist No. 2 (page 13.)
 5. None of the above. Use Submittal Checklist No. 1 (page 10.)

If any of boxes 1 to 4 are checked, the operation meets the threshold requirements for an engineer⁴ and a Professional Engineer (PE), licensed in Iowa, is required. For these cases, use Submittal Checklist No. 2 (pages 13-15.)

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 (pages 10-12).

- 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 (pages 13-15) and Addendum "A" (page 16).

ITEM 6 – SIGNATURE:

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

Signature of Owner(s): Scott Wojcik Date: 5-4-16

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
502 East 9th St.
Des Moines, IA 50319-0034**

(Note: Incomplete applications will be returned to the sender. Application documents submitted to the Field Office will delay the application process).

Questions

Questions about construction permit requirements or regarding this form should be directed to an engineer of the animal feeding operations (AFO) Program at (515) 281-8941 or go to <http://www.iowadnr.gov> (select the link to "Animal Feeding Operations"). To contact the appropriate DNR Field Office, go to <http://www.iowadnr.gov/fo/index.html>.

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 to 15.)
Revised 04/2011 cmz **5** DNR Form 542-1428

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
Scott Wolf	25279 1 st Ave	New Liberty/IA	52765
Darcy Wolf	25279 1 st Ave	New Liberty/IA	52765

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 has an interest.

Operation Name	Location (1/4 1/4, 1/4, Section, Tier, Range, Township, County)	City
<input checked="" type="checkbox"/> None [There are no other confinements in Iowa in which the above listed person(s) has or have an interest].		

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

Signature of Owner(s): Scott Wolf Date: 5-4-16

ITEM 8

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

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

Credit fees to: Scott Wolf

Name of operation: Scott Wolf

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	986	x	\$ 0.15 =	147.90
3,000 AU or more	5	Poultry		x	\$ 0.08 =	
	6	Other		x	\$ 0.20 =	

Filing Fees Form
for Construction Permits

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

Credit fees to: Scott Wolf

Name of operation: Scott Wolf

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 and you must also pay the following:

- Manure management plan filing fee \$ 250.00
(Note: This fee is non-refundable)

3. Total filing fees: Add the fees paid in items 1 and 2 (above): \$ 500.00

SUMMARY:	
- Manure Storage Indemnity Fee (see previous page) to be deposited in the Manure Storage Indemnity Fee Fund (474)	\$ <u>147.90</u>
- Total filing fees (see item 3 on this page) to be deposited in the Animal Agriculture Compliance Fund (473)	\$ <u>500.00</u>
TOTAL DUE:	\$ <u>647.90</u>

4. 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:

Owner: Scott Wolf Telephone: 563.785.4562

Name of operation: Scott Wolf

Location: NW SW 6 79N 1E 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)

RECEIVED
MAY -4 PM 1:00
COUNTY AUDITOR

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(455B) and Iowa Code 459.304. On behalf of the Board of Supervisors for:

COUNTY: Scott

NAME: Roland Caldwell

TITLE: Operations Manager Auditor's Office
(Member of the County Board of Supervisors or its designated official/employee)

Date: May 4, 2016

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 (515) 281-8941 or visit www.IowaDNR.gov

SCOTT WOLF

Key for Aerial Photos 1 and 2

A – Nearest Residences (to the northwest 1280 feet and 1970 feet, to the south 1954 feet)

B – Owners Residence

C – Nearest surface water/water source 3100 feet.

D – Nearest Major water source 4.5 miles to portion of Mud Creek

E – Distance to nearest well is 350 feet

F – Distance to ROW is 980 feet

G – Nearest confinement with MMP 4900 feet

There are no ag drainage wells, surface intakes of ag drainage wells or designated wetlands within one mile of the site.



IOWA

SCOTT WOLF

Aerial Photo 1

DEPARTMENT OF NATURAL RESOURCES

Basemaps

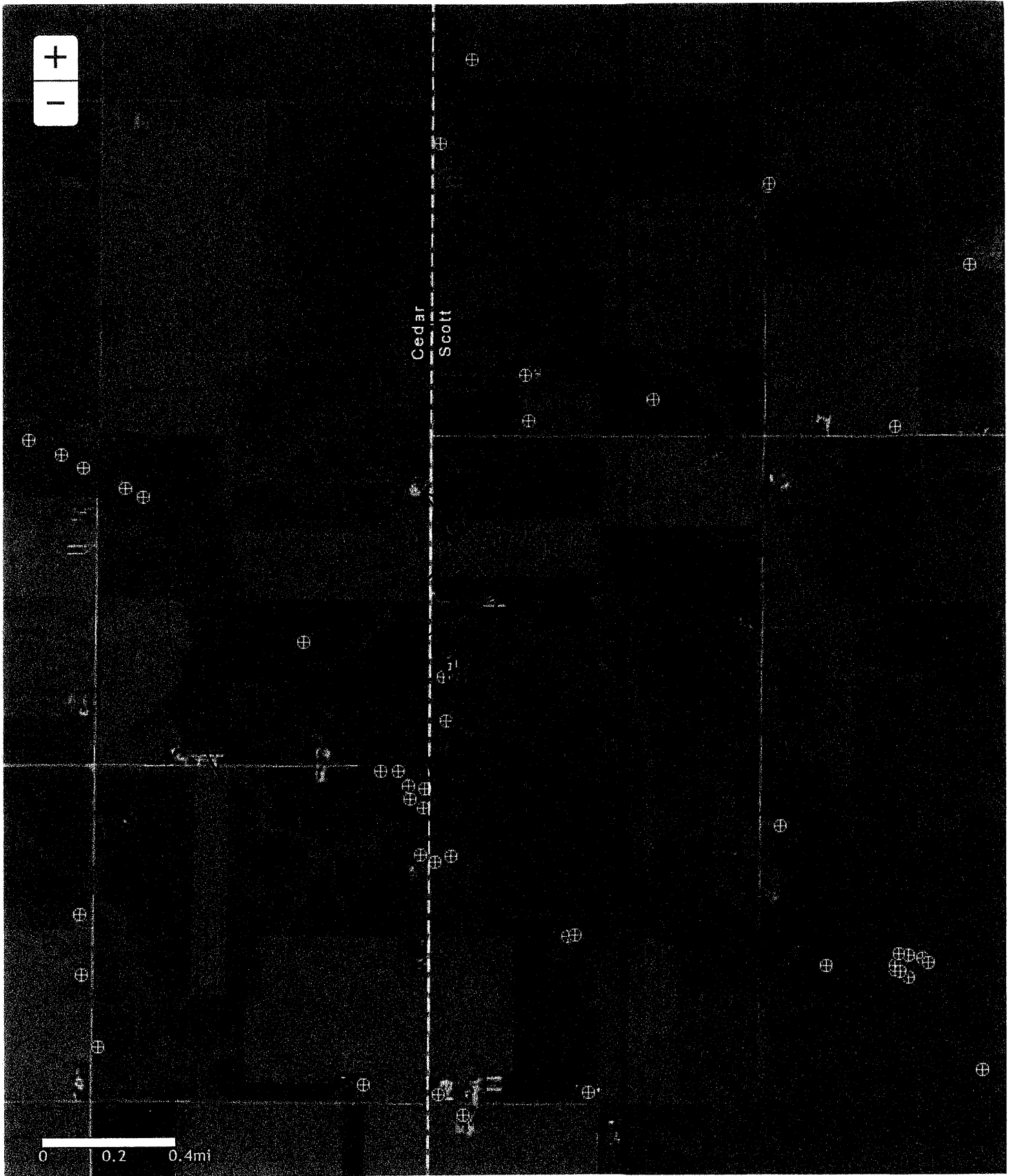
Measure

Bookmarks

Mail

Map Info

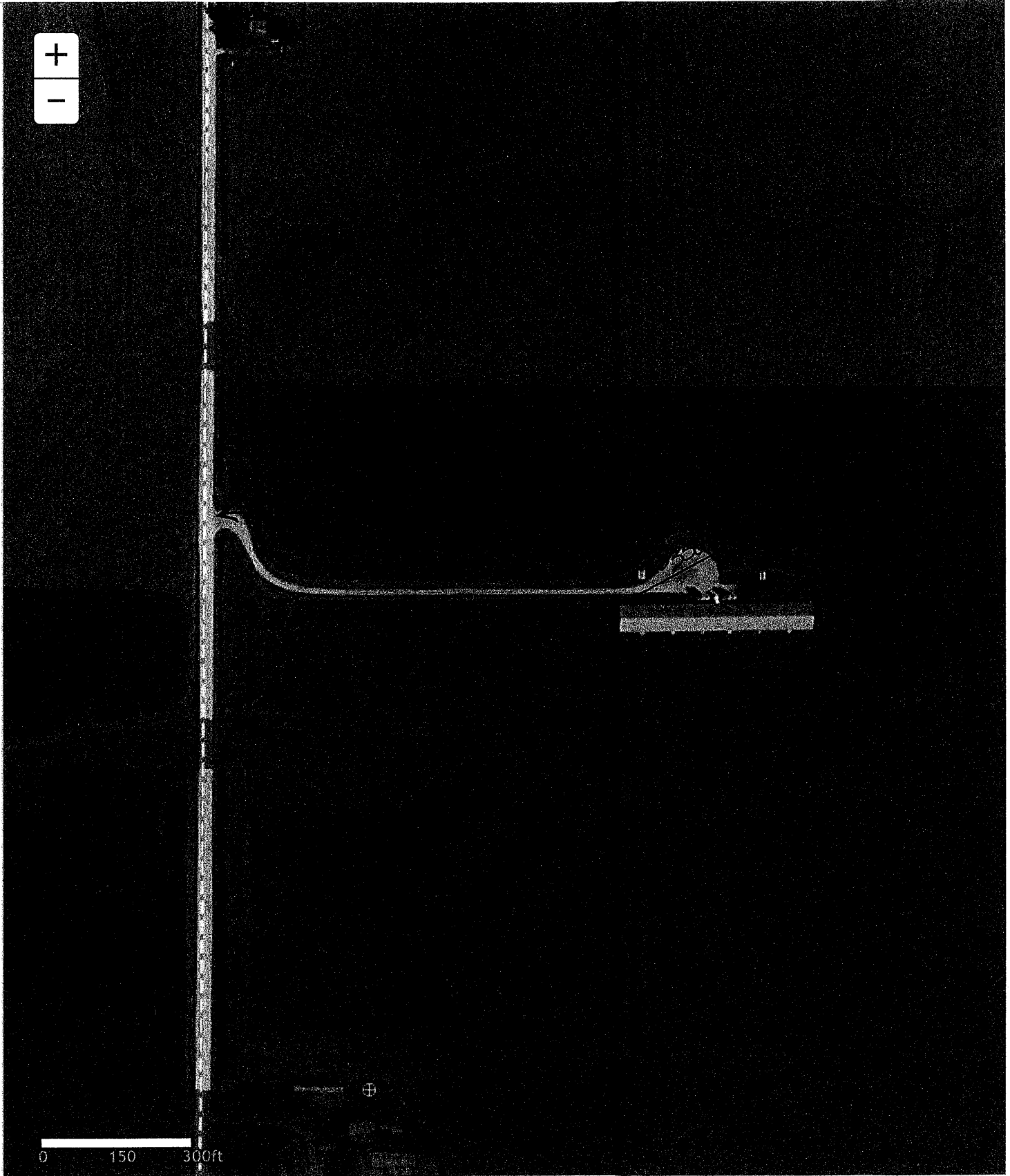
Soil



502 E. 9th St, Des Moines, IA 50319

t79nr01e06

UTM Zone 15 NAD83 WGS84
672855.41, 4618657.53 -90.922571,



0 150 300ft



Doc ID: 020415010004 Type: LAN
Recorded: 07/22/2015 at 09:33:23 AM
Fee Amt: \$22.00 Page 1 of 4
Scott County Iowa
Rita A. Vargas Recorder
File 2015-00018609

**RECORDER'S COVER SHEET
TO
SEPARATION DISTANCE WAIVER**

Prepared by and Return to:

Michael R. Blaser
BrownWinick Law Firm
666 Grand Avenue, Suite 2000
Des Moines, IA 50309
Telephone: (515) 242-2480

Grantors:

David J. and Erin M. Krummel
25705 1st Avenue
New Liberty, IA 52765-9605

Grantees:

Scott R. and Darcy A. Wolf
25279 1st Avenue
New Liberty, IA 52765-9605

Legal Description:
See Exhibit "A"

Book/Page Reference to prior document: N/A

SEPARATION DISTANCE WAIVER

THIS SEPARATION DISTANCE WAIVER ("Agreement") is made as of the 16 day of July, 2015, between David J. and Erin M. Krummel, husband and wife and residents of the State of Iowa ("Grantors") and Scott R. and Darcy A. Wolf, husband and wife and residents of the State of Iowa ("Grantees").

WHEREAS, Grantees are the titleholder of certain real property in Scott County, Iowa, described as follows:

The NW1/4 of the SW1/4 and the SW1/4 of the NW1/4 of Section 6, Township 79 North, Range 1 East of the 5th Principal Meridian, Scott County, Iowa, less the Grantors Property, as set forth on Exhibit "A," ("Grantees Property")

on which one existing confinement animal feeding operation exists and another animal confinement feeding operation will be constructed (collectively the "AFOS").

WHEREAS, Grantors own a residence at 25705 1st Avenue, New Liberty, Iowa 52765-9605, legally described on Exhibit "A" hereto ("Grantors Property") that is within the applicable separation distances from Grantees' confinement feeding operations on Grantees Property, as expanded, as required and provided by Iowa law; and

WHEREAS, Grantees have requested that Grantors waive the applicable separation distances between Grantors Property and Grantees Property as to the AFOS provided by Iowa law pursuant to this written agreement and Grantors have agreed to make such waiver.

NOW, THEREFORE, in consideration of the premises set forth above and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. Waiver. Grantors hereby waive all applicable separation distances required to be maintained between Grantors Property and: (a) the AFOS and (b) any manure application from the AFOS on Grantees Property.
2. Entire Agreement. This Agreement constitutes the entire agreement and understanding between the parties hereto and supersedes all prior agreements or understandings, written or oral. No amendment to this Agreement will be effective unless in writing and signed by both parties hereto and/or their respective heirs, successors, assigns and personal representatives. If any provision of this Agreement is held invalid, the remaining provisions of this Agreement will remain in full force and effect as if that invalid provision had not been included in this Agreement. Words and phrases herein will be construed as in the singular or plural number, and as masculine, feminine or neutered gender according to the context.
3. Extent of Waiver. This Agreement will run with Grantors Property for the benefit of Grantees Property and is: (a) binding upon Grantors and their heirs, successors and assigns and upon any subsequent titleholder to Grantors Property and (b) beneficial to Grantees, heirs, successors and assigns and upon any subsequent titleholder to Grantees Property; and is intended by Grantor and Grantee to be a valid and complete waiver of all separate distance requirements for AFOS provided in the Iowa Code, including, without limitation, the requirements of Iowa Code Sections 459.202, 459.203, 459.204 and 459.207 (2014), as may be amended from time to time.

4. Miscellaneous. This Agreement constitutes the entire agreement and understanding between the parties hereto and supersedes all prior agreements or understandings, written or oral. No amendment to this Agreement will be effective unless in writing and signed by both parties hereto and/or their respective heirs, successors, assigns and personal representatives. If any provision of this Agreement is held invalid, the remaining provisions of this Agreement will remain in full force and effect as if that invalid provision had not been included in this Agreement. Words and phrases herein will be construed as in the singular or plural number, and as masculine, feminine or neutered gender according to the context. This Agreement will be construed and governed in accordance with the laws of the State of Iowa. This Agreement may be executed in one or more counterparts, each of which will be deemed to be an original for all purposes and all of which together will constitute one and the same instrument.

IN WITNESS WHEREOF, this Agreement has been executed as of the day and year first above written.

GRANTORS:

David J. Krummel
David J. Krummel

Erin M. Krummel
Erin M. Krummel

GRANTEES:

Scott R. Wolf
Scott R. Wolf

Darcy A. Wolf
Darcy A. Wolf

STATE OF IOWA)
) SS:
COUNTY OF Cedar)

On this 16th day of July, 2015, before me, the undersigned, a Notary Public in and for said State, personally appeared David J. and Erin M. Krummel, husband and wife and residents of the State of Iowa, to me personally known, who being by me duly sworn, did say that he or she was executing the within and foregoing instrument and that he or she acknowledged the execution of the foregoing instrument to be the voluntary act and deed of his or her.

Jan M. Petersen
NOTARY PUBLIC IN AND FOR THE STATE OF Iowa

STATE OF IOWA)
) SS:
COUNTY OF Cedar)

On this 16th day of July, 2015, before me, the undersigned, a Notary Public in and for said State, personally appeared Scott R. and Darcy A. Wolf, husband and wife and residents of the State of Iowa, to me personally known, who being by me duly sworn, did say that he or she was executing the within and foregoing instrument and that he or she acknowledged the execution of the foregoing instrument to be the voluntary act and deed of his or her.

Jan M. Petersen
NOTARY PUBLIC IN AND FOR THE STATE OF Iowa

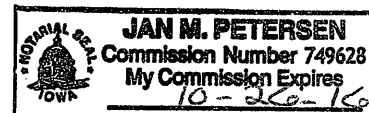


Exhibit "A"
Legal Description of Grantors Property

Part of the Southwest Quarter of the Northwest Quarter of Section 6, Township 79 North, Range 1 East of the Fifth Principal Meridian, more particularly described as follows: Beginning at the Northwest corner of the Southwest Quarter of the Northwest Quarter of Section 6, then North $89^{\circ}53'$ East along the North line thereof 180.0 feet, thence South 264.0 feet, thence South $89^{\circ}53'$ West 180 feet to a point on the West line of the Southwest Quarter of the Northwest Quarter of Section 6, then North 264.0 feet to the point of beginning, containing 1.09 acres, more or less; situated in the County of Scott and State of Iowa.



Doc ID: 020415020004 Type: LAN
Recorded: 07/22/2015 at 09:33:35 AM
Fee Amt: \$22.00 Page 1 of 4
Scott County Iowa
Rita A. Vargas Recorder

File **2015-00018610**

**RECORDER'S COVER SHEET
TO
SEPARATION DISTANCE WAIVER**

Prepared by and Return to:

Michael R. Blaser
BrownWinick Law Firm
666 Grand Avenue, Suite 2000
Des Moines, IA 50309
Telephone: (515) 242-2480

Grantors:

Warren E. Fick, Trustee of the Warren E. Fick Trust dated 4/17/1992
Elaine J. Fick, Trustee of the Elaine J. Fick Trust dated 4/17/1992
701 14th Avenue
Durant, IA 52747-9620

Grantees:

Scott R. and Darcy A. Wolf
25279 1st Avenue
New Liberty, IA 52765-9605

Legal Description:

See Exhibit "A"

Book/Page Reference to prior document: N/A

SEPARATION DISTANCE WAIVER

THIS SEPARATION DISTANCE WAIVER ("Agreement") is made as of the 21st day of July, 2015, between Warren E. Fick, as Trustee of the Warren E. Fick Trust dated April 17, 1992, and Elaine J. Fick, as Trustee of the Elaine J. Fick Trust dated April 17, 1992, and residents of the State of Iowa ("Grantors") and Scott R. and Darcy A. Wolf, husband and wife and residents of the State of Iowa ("Grantees").

WHEREAS, Grantees are the titleholder of certain real property in Scott County, Iowa, legally described as follows:

Northwest Quarter of the Southwest Quarter and the Southwest Quarter of the Northwest Quarter, except that part of the Southwest Quarter of the Northwest Quarter of Section 6, Township 79 North, Range 1 East of the Fifth Principal Meridian, more particularly described as follows: Beginning at the Northwest corner of the Southwest Quarter of the Northwest Quarter of Section 6, then North 89°53' East along the North line thereof 180.0 feet, then South 264.0 feet, thence South 89°53' West 180 feet to a point on the West line of the Southwest Quarter of the Northwest Quarter of Section 6, then North 264.0 feet to the point of beginning, containing 1.09 acres, more or less, all in Section 6, Township 79 North, Range 1 East of the 5th P.M., Scott County, Iowa, ("Grantees Property").

on which one existing confinement animal feeding operation exists and another animal confinement feeding operation will be constructed (collectively the "AFOS").

WHEREAS, Grantors are the titleholders of certain real property in Scott County, Iowa, legally described as follows:

Southwest Quarter (SW $\frac{1}{4}$) of the Southwest Quarter (SW $\frac{1}{4}$) of Section 6, Township 79 North, Range 1, East of the 5th P.M., ("Grantors Property").

that is within the applicable separation distances from Grantees' confinement feeding operations on Grantees Property, as expanded, as required, and provided by Iowa law; and

WHEREAS, Grantees have requested that Grantors waive the applicable separation distances between Grantors Property and Grantees Property as to the AFOS provided by Iowa law pursuant to this written agreement and Grantors have agreed to make such waiver.

NOW, THEREFORE, in consideration of the premises set forth above and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. Waiver. Grantors hereby waive all applicable separation distances required to be maintained between Grantors Property and: (a) the AFOS and (b) any manure application from the AFOS on Grantees Property.

2. Entire Agreement. This Agreement constitutes the entire agreement and understanding between the parties hereto and supersedes all prior agreements or understandings, written or oral. No amendment to this Agreement will be effective unless in writing and signed by both parties hereto and/or their respective heirs, successors, assigns and personal representatives. If any provision of this Agreement is held invalid, the remaining provisions of this Agreement will remain in full force and effect as if that invalid provision had not been included in this Agreement. Words and phrases herein will be construed as in the singular or plural number, and as masculine, feminine or neutered gender according to the context.

3. Extent of Waiver. This Agreement will run with Grantors Property for the benefit of Grantees Property and is: (a) binding upon Grantors and their heirs, successors and assigns and upon any subsequent titleholder to Grantors Property and (b) beneficial to Grantees, heirs, successors and assigns and upon any subsequent titleholder to Grantees Property; and is intended by Grantor and Grantee to be a valid and complete waiver of all separate distance requirements for AFOS provided in the Iowa Code, including, without limitation, the requirements of Iowa Code Sections 459.202, 459.203, 459.204 and 459.207 (2014), as may be amended from time to time.

4. Miscellaneous. This Agreement constitutes the entire agreement and understanding between the parties hereto and supersedes all prior agreements or understandings, written or oral. No amendment to this Agreement will be effective unless in writing and signed by both parties hereto and/or their respective heirs, successors, assigns and personal representatives. If any provision of this Agreement is held invalid, the remaining provisions of this Agreement will remain in full force and effect as if that invalid provision had not been included in this Agreement. Words and phrases herein will be construed as in the singular or plural number, and as masculine, feminine or neutered gender according to the context. This Agreement will be construed and governed in accordance with the laws of the State of Iowa. This Agreement may be executed in one or more counterparts, each of which will be deemed to be an original for all purposes and all of which together will constitute one and the same instrument.

IN WITNESS WHEREOF, this Agreement has been executed as of the day and year first above written.

GRANTORS:

Warren E. Fick, Trustee
 Warren E. Fick, Trustee of
 The Warren E. Fick Trust dated April 17, 1992

Elaine J. Fick, Trustee
 Elaine J. Fick, Trustee of
 The Warren E. Fick Trust dated April 17, 1992

GRANTEES:

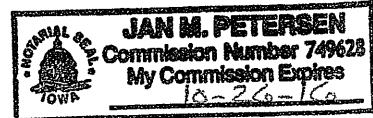
Scott R. Wolf
 Scott R. Wolf

Darcy A. Wolf
 Darcy A. Wolf

STATE OF IOWA)SS:
COUNTY OF Cedar)

On this 21st day of July, 2015, before me, the undersigned, a Notary Public in and for said State, personally appeared Warren E. Fick, as Trustee of the Warren E. Fick Trust dated April 17, 1992, to me personally known, who being by me duly sworn, did say that he was executing the within and foregoing instrument and that he acknowledged the execution of the foregoing instrument to be his voluntary act and deed.

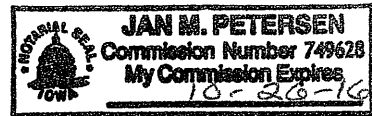
Jan M. Petersen
NOTARY PUBLIC IN AND FOR THE STATE OF IOWA



STATE OF IOWA)SS:
COUNTY OF Cedar)

On this 21st day of July, 2015, before me, the undersigned, a Notary Public in and for said State, personally appeared Elaine J. Fick, as Trustee of the Elaine J. Fick Trust dated April 17, 1992, to me personally known, who being by me duly sworn, did say that she was executing the within and foregoing instrument and that she acknowledged the execution of the foregoing instrument to be her voluntary act and deed.

Jan M. Petersen
NOTARY PUBLIC IN AND FOR THE STATE OF IOWA



STATE OF IOWA)SS:
COUNTY OF Cedar)

On this 21st day of July, 2015, before me, the undersigned, a Notary Public in and for said State, personally appeared Scott R. and Darcy A. Wolf, husband and wife and residents of the State of Iowa, to me personally known, who being by me duly sworn, did say that he or she was executing the within and foregoing instrument and that he or she acknowledged the execution of the foregoing instrument to be the voluntary act and deed of his or her.

Jan M. Petersen
NOTARY PUBLIC IN AND FOR THE STATE OF IOWA





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 structure³(s)

A) Information about the operation:

Name of operation: Scott Wolf Facility ID No. : 104308
 Location: SW NW 06 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, address location of pit fans, if applicable, and address water line entry into buildings. If necessary attach more pages:

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

All Pit Fans mounted to Concrete Pumpouts

No Water Line Entry through Pit Wall

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

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

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

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

All separation distances that are not clearly in excess of the required minimum separation distance must be measured according to 567 IAC 65.11(5) using standard survey methods. Go to the DNR fact sheet page at <http://www.iowadnr.gov/Environment/LandStewardship/AnimalFeedingOperations/AFOResources/AFOFactsheets.aspx> and select DNR fact sheet "Distance Requirements for Construction" to find the required separation distances. Or, go directly to: <http://www.iowadnr.gov/Portals/idnr/uploads/forms/5421420.pdf>. An example aerial photo can be found on pages 18 to 19 of the AFO Construction Permit Application (DNR Form 542-1428). Or, go directly to: http://www.iowadnr.gov/Portals/idnr/uploads/afo/fs_iemap.pdf.

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

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

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

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

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

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: Scott Wolf County: Scott


Owner's name: Scott Wolf

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

<u>Randy Shumaker</u> (Print name)	 (Signature)	<u>04-13-16</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, equally spaced within each formed structure, or two test pits outside of each formed structure, are required. After soil exploration is completed, each soil boring and pit shall be properly plugged with concrete grout, bentonite, or similar materials.

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

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

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

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

Section 4 - Drainage Tile Certification: Required only if applying for a construction permit and constructing three or more confinement feeding operations 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:

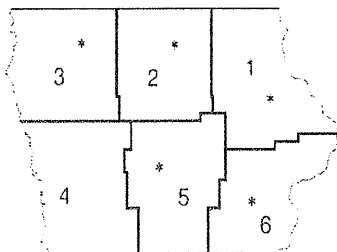
Name of operation: _____ County: _____

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:

1. 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

2. 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).

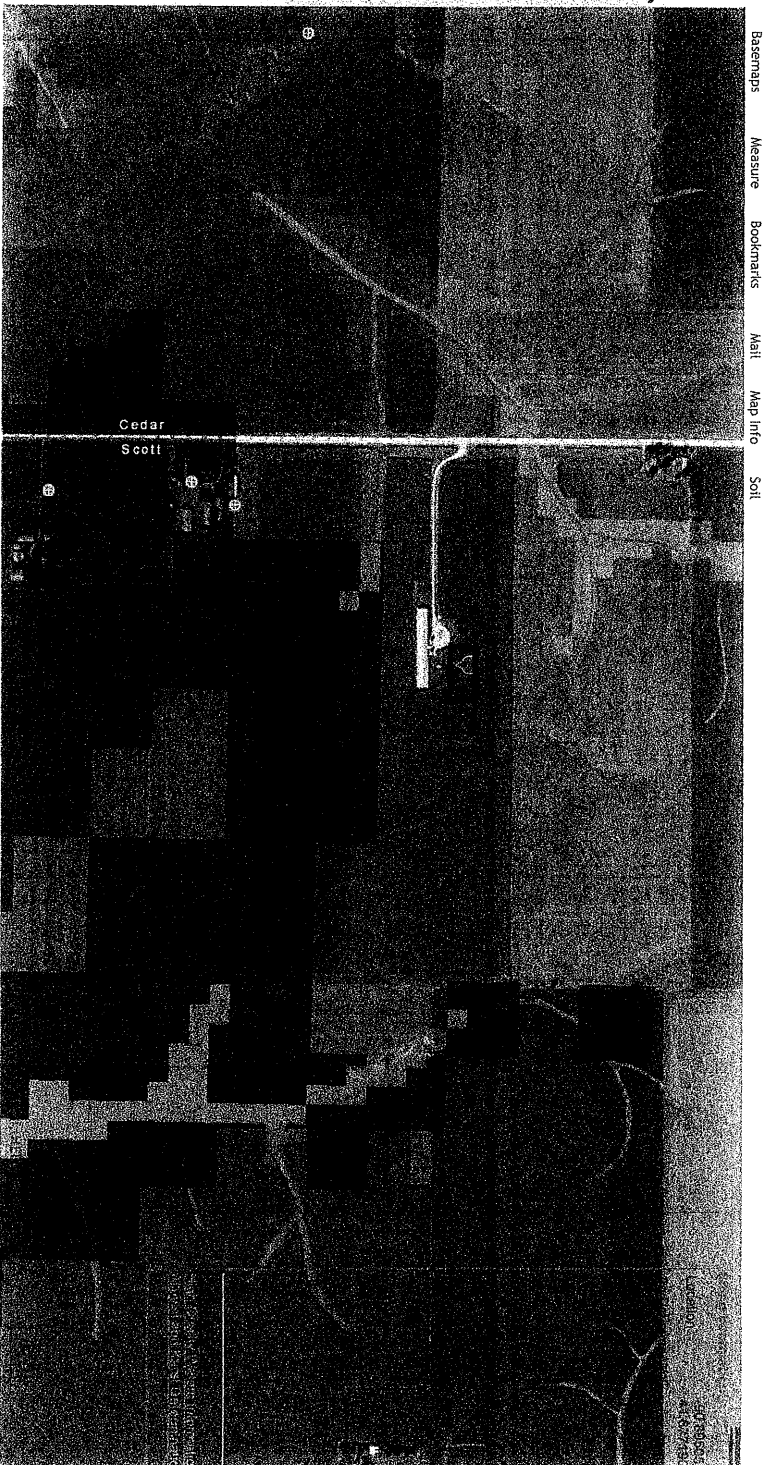
If you have any questions regarding the concrete standards requirements and CDS, contact an engineer of the AFO- Program at 712-262-4177, the nearest DNR Field Office, or visit <http://www.iowadnr.gov/afo>.



AFO Siting

Legend Map layers Soil

- AFO Siting Data
- Sinkholes
- Agriculture Drainage Well
- Wells
 - Animal Feeding Operation
 - Public Drainage Infrastructure
 - High Quality Water Resource (Rivers)
 - High Quality Water Resource (Waterbody)
 - Major Water Source (Rivers)
 - Major Water Source (Lake)
 - Surface Water
- Public Land
- Agriculture Drainage Districts
- Public Land Survey
- AFO Model/Support Data
- Ag. Drainage Well Distance
- Well Distance
- Water



Scott Wolf proposed Building



Scott County
Board of
Supervisors

June 16, 2016

**MASTER MATRIX
SCORING REVIEW
FOR SCOTT WOLF /
GRANDVIEW FARMS, INC.
2016 EXPANSION**



NEW LIBERTY RD

20TH AVE

Y30

130

LIBERTY

N

Cedar County

CAFO

CLEONA

0

0.75

1.5

3

Miles



LIBERTY

260TH ST

20TH AVE

N

Cedar County

1ST AVE

CAFO

Y30

CLEONA

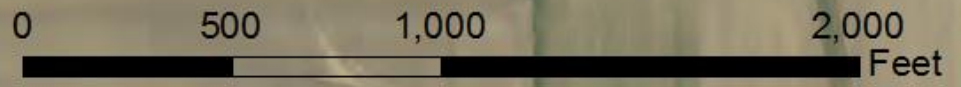
10TH AVE

0 0.25 0.5 1 Miles

Cedar County

1ST AVE

CAFO



**Existing CAFO Facility from 1st
Avenue Access, facing East**



1st Avenue Access Point, facing West



1st Avenue Access Point, facing North



1st Avenue Access Point, facing South



Existing CAFO, facing East



Existing CAFO, facing West



**Proposed CAFO Expansion Site,
North of Existing Facility**



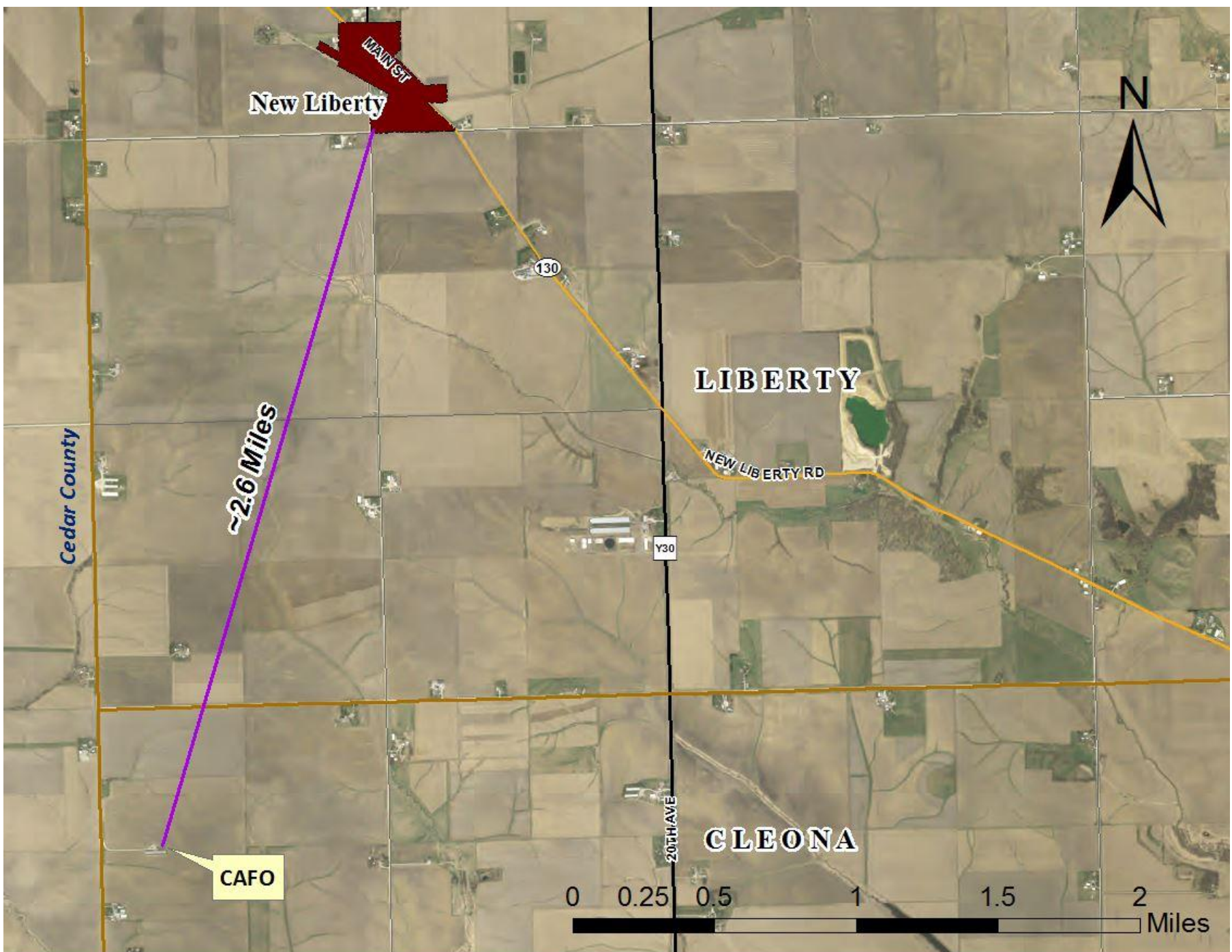
THE MASTER MATRIX HAS 44 POSSIBLE SCORING CRITERIA

- **25 “Proposed Site Characteristics”**
 - **Scott Wolf scored on 16**

- **19 “Proposed Site Operations and Manure Management Practices”**
 - **Scott Wolf scored on 2**

SCORING REVIEW

Scoring Criteria	Total Score	AIR	WATER	COMMUNITY
#2 Additional separation distance from confinement structure to the closest public use area (>1,500 feet)	30	12	0	18



MAIN ST

New Liberty

N

130

LIBERTY

NEW LIBERTY RD

Y30

20TH AVE

CLEONA

~2.6 Miles

CAFO

Cedar County

0 0.25 0.5 1 1.5 2 Miles

Scoring Criteria	Total Score	AIR	WATER	COMMUNITY
#3 Additional separation distance from confinement structure to closest educational or religious institution, or commercial enterprise (>1,500 feet)	30	12	0	18



260TH ST



Cedar County

CAFO

1ST AVE

to Sunbury, Iowa commercial enterprise ~1.9 Miles

Scoring Criteria	Total Score	AIR	WATER	COMMUNITY
#4 Additional separation distance from confinement structure to the closest water source (>1,500 feet)	30	0	30	0

Cedar County



10TH AVE

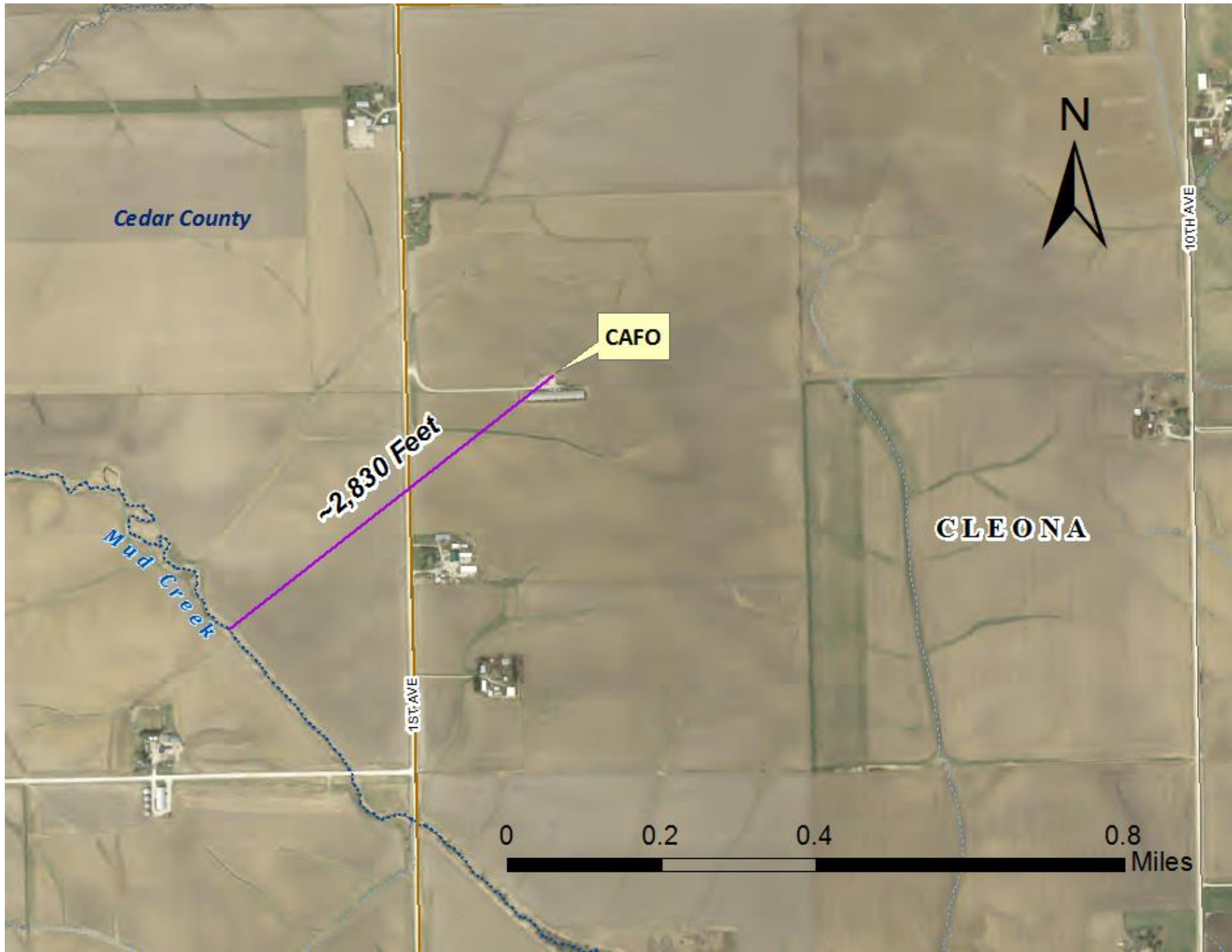
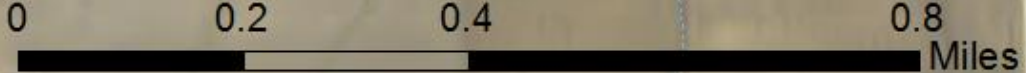
CAFO

~2,830 Feet

Mud Creek

CLEONA

1ST AVE



Scoring Criteria	Total Score	AIR	WATER	COMMUNITY
#5 Separation distance of 300 feet or more from confinement structure to nearest thoroughfare	30	9	0	21

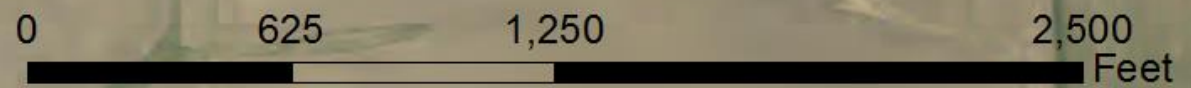
Cedar County



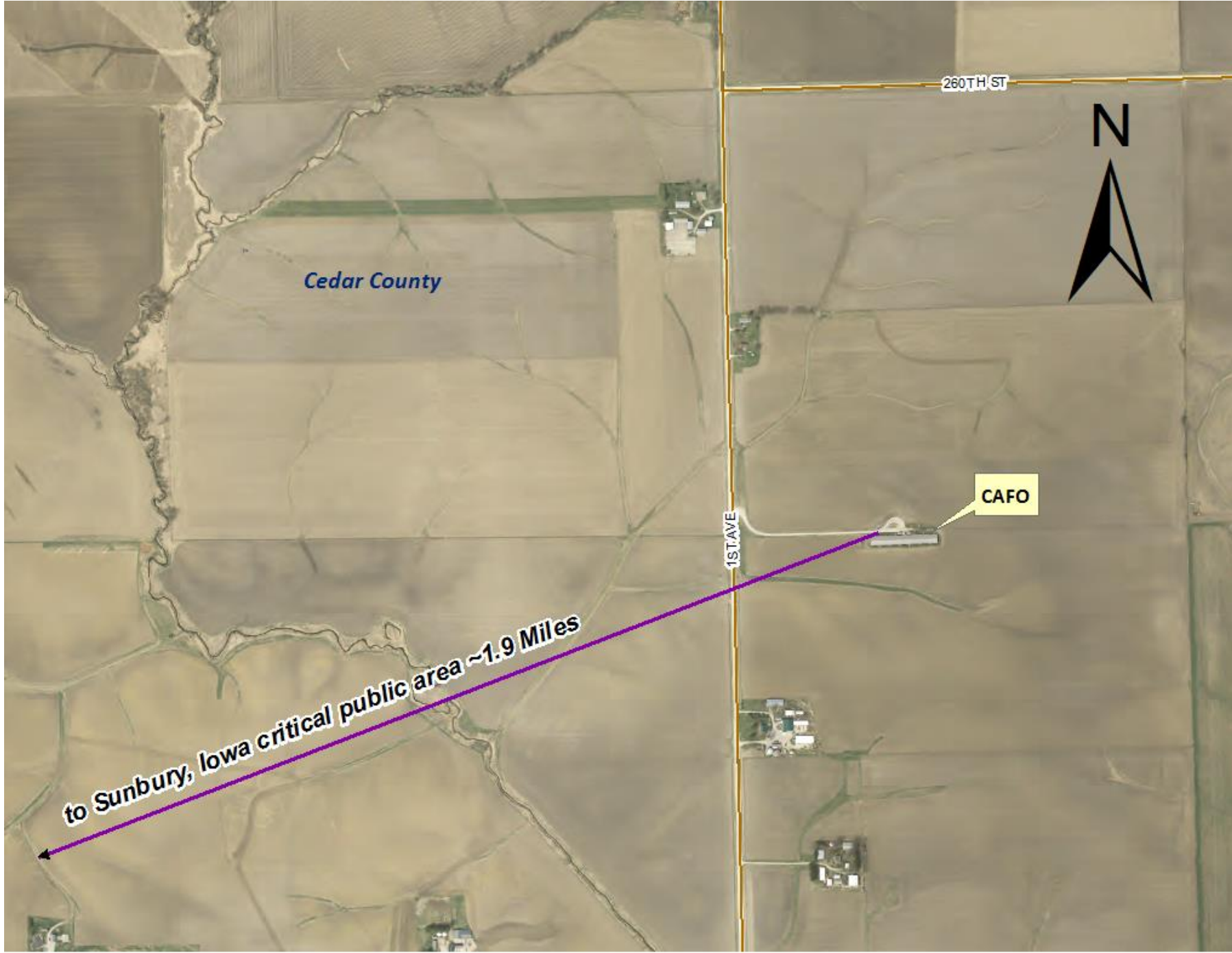
CAFO

1ST AVE

~850 Feet



Scoring Criteria	Total Score	AIR	WATER	COMMUNITY
#6 Additional separation distance from confinement structure to closest critical public area (>500 feet)	10	4	0	6



260TH ST



Cedar County

1ST AVE

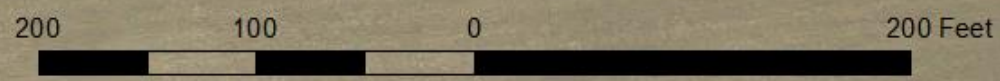
CAFO

to Sunbury, Iowa critical public area ~1.9 Miles

Scoring Criteria	Total Score	AIR	WATER	COMMUNITY
#7 Confinement structure is at least two times the minimum separation distance from all private and public water wells (>200 feet)	30	0	24	6



~350 Feet



Scoring Criteria	Total Score	AIR	WATER	COMMUNITY
#8 Additional separation distance from confinement structure to closest agricultural drainage well, known sinkhole, or major water source (>2,500 feet)	50	5	25	20



Scoring Criteria	Total Score	AIR	WATER	COMMUNITY
#9 Distance between the proposed confinement structure and the nearest confinement facility that has submitted a department manure management plan (>.75 miles)	25	7.5	7.5	21

Cedar County



CAFO

~4,800 Feet

CLEONA



Scoring Criteria	Total Score	AIR	WATER	COMMUNITY
#10 Confinement structure is at least two times the minimum separation distance from closest High Quality (Resource) Waters (>2,000 feet)	30	0	22.5	7.5



LIBERTY

ALLENS GROVE

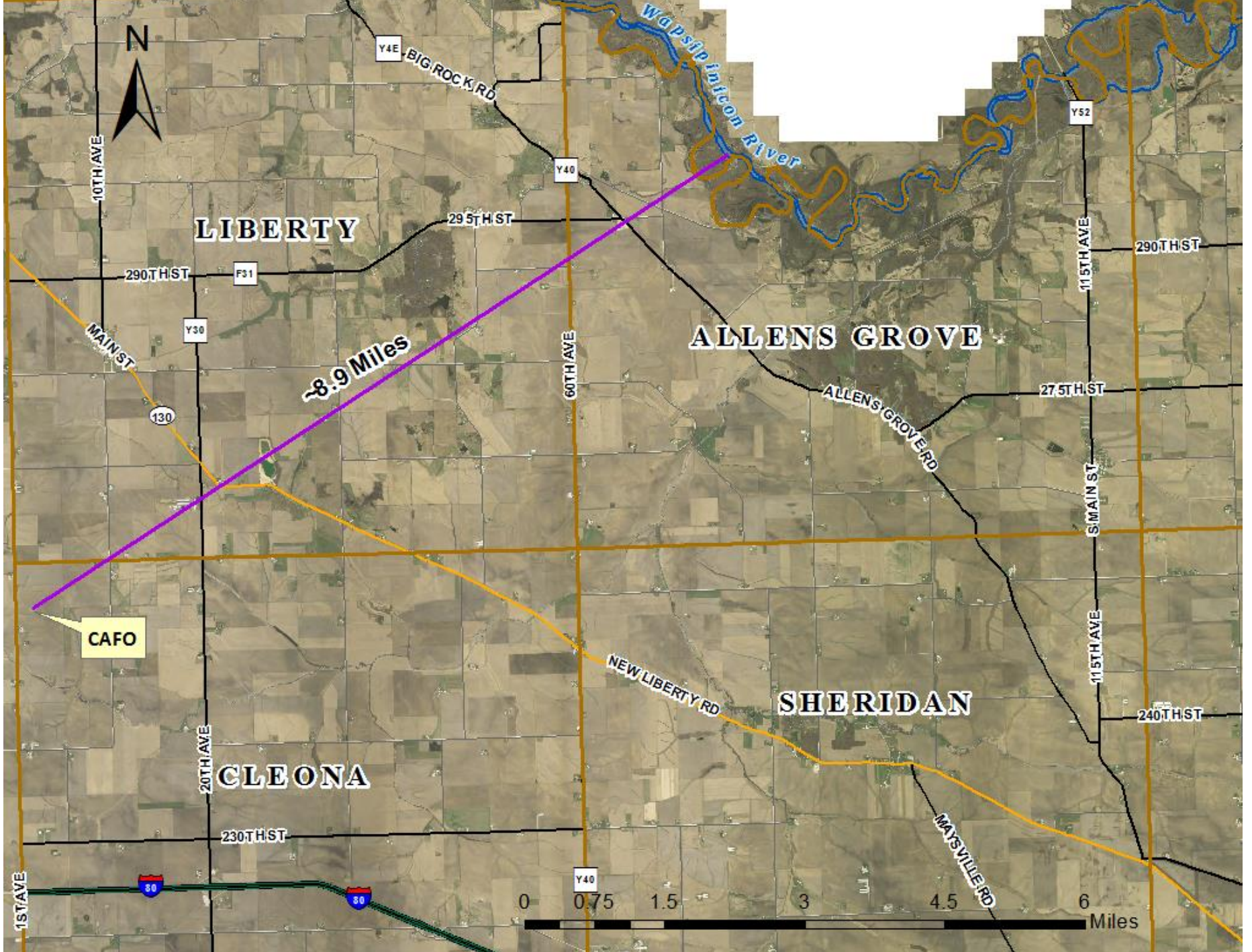
SHERIDAN

CLEONA

Wapsipinicon River

~8.9 Miles

CAFO



Scoring Criteria	Total Score	AIR	WATER	COMMUNITY
#12 Liquid manure storage structure is covered	30	27	0	3
#17 Proposed manure storage structure is formed	30	0	27	3
#19 Proposed confinement site has a suitable struck turnaround area so that semitrailers do not have to back into the facility from the road	20	0	0	20

Scoring Criteria	Total Score	AIR	WATER	COMMUNITY
<p>#20 No history of environmental and worker protection violations in the last five years</p>	<p>30</p>	<p>0</p>	<p>0</p>	<p>30</p>
<p>#23 Construction permit applicant can lawfully claim a Family Farm Tax Credit for agricultural land where the proposed operation is to be located</p>	<p>25</p>	<p>0</p>	<p>0</p>	<p>25</p>
<p>#24 Facility size (1 to 2,000 animal unit capacity)</p>	<p>20</p>	<p>0</p>	<p>0</p>	<p>20</p>

Scoring Criteria	Total Score	AIR	WATER	COMMUNITY
#25 Application includes livestock feeding and watering systems that significantly reduce manure volume	25	0	12.5	12.5
#26 Liquid or dry manure – Injection or incorporation of manure on the same date it is land-applied	30	12	12	6
#40 Construction permit application contains an emergency action plan	5	0	2.5	2.5

Scoring Criteria	Total Score	AIR	WATER	COMMUNITY
Total Score Possible	880	213.5	271	404.5
Total Score Required to Pass	440	53.38	67.75	101.13
Scott Wolf Total Score	490	88.5	170.5	231

THE COUNTY AUDITOR'S SIGNATURE CERTIFIES THAT
THIS RESOLUTION HAS BEEN FORMALLY APPROVED BY
THE BOARD OF SUPERVISORS ON _____
DATE _____

SCOTT COUNTY AUDITOR

RESOLUTION
SCOTT COUNTY BOARD OF SUPERVISORS

June 16, 2016

**ADOPTING A RECOMMENDATION TO THE IOWA DEPARTMENT OF NATURAL
RESOURCES TO APPROVE THE CONSTRUCTION PERMIT APPLICATION OF
SCOTT WOLF FOR THE EXPANSION OF AN EXISTING CONFINED ANIMAL
FEEDING OPERATION IN SECTION SIX OF CLEONA TOWNSHIP**

BE IT RESOLVED by the Scott County Board of Supervisors as follows:

- Section 1. Scott Wolf has submitted an application to the Iowa Department of Natural Resources (IDNR) for a construction permit for the expansion of an existing confined animal feeding operation located in part of the NW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 6, T79N, R1E (Cleona Township) in unincorporated Scott County.
- Section 2. The Scott County Health Department and the Scott County Planning and Development Department have reviewed the construction permit application and the manure management plan and determined that both appear to be in compliance with the requirements of the Master Matrix, Iowa Code Section 459 and Iowa DNR rules.
- Section 3. The Scott County Board of Supervisors has determined that there are not any additional objects or locations not included in the application that are within the required separation distances, the soils and hydrology of the site appear to be suitable for the proposed expansion, and the applicant has adequate land for the application of manure originating from this confinement feeding operation available.
- Section 4. The Scott County Board of Supervisors published public notice of the receipt of said application, received no written nor electronic comments on the application and held a public hearing on June 2, 2016 during its regularly scheduled meeting to receive public comments on the application. Only the applicant spoke on behalf of his application.
- Section 5. The Scott County Board of Supervisors will submit to the Iowa DNR the written reports it received from the Scott County Planning and Development and Health Departments on which its determination is based, and the documentation of publication of the required public notices. The Board will also submit any written and/or electronic comments from the general public it receives on this application.
- Section 6. The Scott County Board of Supervisors would recommend that the construction permit application of Scott Wolf be approved based on its compliance with the requirements of the Master Matrix, Iowa DNR rules and Iowa Code regulations for such applications.
- Section 7. This resolution shall take effect immediately.