#### TENTATIVE AGENDA SCOTT COUNTY BOARD OF SUPERVISORS January 14 - 18, 2013

#### January 14 - 16, 20

#### Tuesday, January 15, 2013

#### Committee of the Whole - 8:00 am Board Room, 1st Floor, Administrative Center

1. Roll Call: Minard, Sunderbruch, Cusack, Earnhardt, Hancock

#### Presentation

2. Presentation from Quad Cities Convention and Visitor's Bureau and the Mississippi Valley Welcome Center Board on the proposed use of the proceeds from the recent sale of the Iowa Welcome Center property. (Item 2)

#### Facilities & Economic Development

- 3. Discussion of public hearing on a request by Ed Collins / E & R Bros LLC (applicant and owner of Horizon Outdoor Services) to rezone a 4.72 acres parcel located in part other SE 1/4 SE 1/4 and the SW 1/4 SE 1/4 of Section 7 and part of the NW 1/3 NE 1/4 and the NE 1/4 NE 1/4 of Section 18 all in Pleasant Valley Township from conditional Commercial and Light Industrial (C-2) with a landscaping only use condition, to Commercial and Light Industrial (C-2) without a landscaping only use restriction. (Item 3)
- 4. Discussion of public hearing and staff recommendation on the State Construction Permit Application for Dennis Kirby, dba Kirby Farms, Inc in the SW1/4 SW 1/4 Section 21, T79N, R4E (Lincoln Township) for the expansion of a confined animal feeding operation located at 22293 200th Avenue. (Item 4)
- 5. Approval of first of two readings of an ordinance to rezone approximately 5 acres from Agricultural-Preservation District (A-P) to Agriculture Service Floating Zone (A-F) in the southwesterly corner (precisely the west 600 feet of the south 365 feet) of the SW 1/4 SW 1/4 of Section 18 in Butler Township. (Item 5)

#### Human Resources

- 6. Discussion of strategy of upcoming labor negotiations with the County's organized employees pursuant to Iowa Code Section 20.17(3). - CLOSED SESSION
- \_\_\_\_ 7. Approval of personnel actions. (Item 7)

#### Finance & Intergovernmental

8. Approval of GIS Software Maintenance renewal. (Item 8)

- 9. Approval of appointment to committees, boards and commissions. (Item 9)
- 10. Approval of Mt Joy Amoco and Kwik Shop, Eldridge, IA beer/liquor licenses.
- \_\_\_\_ 11. Other items of interest.

#### Other Items of Interest

- 12. Consideration of appointments with upcoming term expirations for boards and commissions.
  - Benefited Fire District #2(McCausland) term expiration 3/10/13 - Tom Claussen
  - Benefited Fire District #3(Eldridge) term expiration 04/01/13 - John Schnekloth
  - o Benefited Fire District #4 (Long Grove) term expiration 04/01/13 - Merlyn Madden

#### Thursday, January 17, 2013

#### Regular Board Meeting - 5:30 pm Board Room, 1st Floor, Administrative Center

#### Public Hearing

- Rezoning request from Ed Collins to rezone 4.72 acres in Pleasant Valley Township from C-2 with a landscaping only use condition to C-2 without a landscaping only use condition.
  - 2. State Construction Permit Application for Dennis Kirby in Lincoln Township.



Timothy Huey Director

To: Dee F Bruemmer, County Administrator

From: Timothy Huey, Planning Director

Date: January 10, 2013

### **Re:** Presentation from Quad Cities Visitor and Convention Bureau on the proposed use of the proceeds from the sale of the Mississippi Valley Welcome Center property.

In June of 2011 a combined task force of the QCCVB and the MVWC Board recommended that the Mississippi Valley Welcome Center be closed and the property sold. At that time the task force's recommendation on closure stated: "a plan should include how the proceeds from any sale could best be used jointly by the parties to enhance visitor services in the QCA. Ultimately any plan on the disposition of sale proceeds would have to be approved by all the participating local governments."

A year ago on December 31, 2011 the Mississippi Valley Welcome Center was closed and the property offered for sale. Prior to that, in November, 2011, the Cities of Davenport and Bettendorf, assigned their interest in the property to Scott County to facilitate the sale. Scott County held a public hearing on November 22, 2011 to hear comments on that transfer of interest from all three cities, including the City of LeClaire. The City of LeClaire never approved that transfer so therefore the offer to purchase was approved by both the City of LeClaire and Scott County following public hearings on the sale.

The Mississippi Valley Welcome Center Board recommended approval of the purchase agreement from the Markman Peat Corporation to purchase the property for \$550,000 with conditions. The net proceeds from the sale were \$522,413 and following payment of invoices for the nearly one year of holding costs for the maintenance of the building which are estimated to be approximately \$18,000, the resulting final net proceeds should be just over \$500,000.

Joe Taylor, and Margo McInnis from the QCCVB and myself will present the proposed use of those proceeds by the QCCVB for the enhancement of visitor services.



Timothy Huey Director

To: Dee F. Bruemmer, County Administrator

From: Timothy Huey, Planning Director

Date: January 10, 2013

Re: A request by Ed Collins, applicant and Marion LaGrange Trust, property owner to rezone a 4.72 acre parcel from conditional Commercial Light Industrial (C-2) to Commercial Light Industrial (C-2) located in part of the SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> and the SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> of Section 7 and part of the NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> and the NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> of Section 18 all in Pleasant Valley Township.

The Planning Commission unanimously recommended approval of the rezoning in accordance with staff's recommendation based on their determination that the request met a preponderance of the criteria of the land use policies. This request is amend the zoning of this property from Commercial and Light Industrial (C-2), with a landscaping only use condition, to Commercial and Light Industrial (C-2), without a landscaping only restriction. The applicant requests the removal of this parcel's landscaping only condition, which was applied when the rezoning of this property from Single Family Residential (R-1) to Commercial and Light Industrial (C-2) was approved in 2004. The applicant's request is based upon his desire to operate a used equipment repair and sales business, incidental or accessory to the current primary use of this property as a landscaping business, but also to allow future expansion of that use or other unrelated commercial uses.

Removal of this condition would allow for a General Commercial and Light Industrial zoning district classification. The applicant has stated that he has no intention of changing the primary use of the property at this time. Any future significant expansion or initiation of a new use would require a site plan review and approval.

The applicant answered the questions the Planning Commission had. One neighbor was in attendance and asked how extensive the used equipment sales would be and how the property would look. The Planning Commission stated that prior to any significant changes in the uses of this property such issues would be addressed with the required Site Plan Review.

**PLANNING COMMISSION RECOMMENDATION:** The Planning Commission recommends approval of the request to rezone this 4.72 acre parcel from Commercial-Light Industrial (C-2) with the condition that only a landscaping business be permitted to Commercial-Light Industrial (C-2) without any conditions based on its compliance with a preponderance of the criteria of the Revised Land-Use Policies.

## Board of Supervisors Committee of the Whole: January 15, 2013

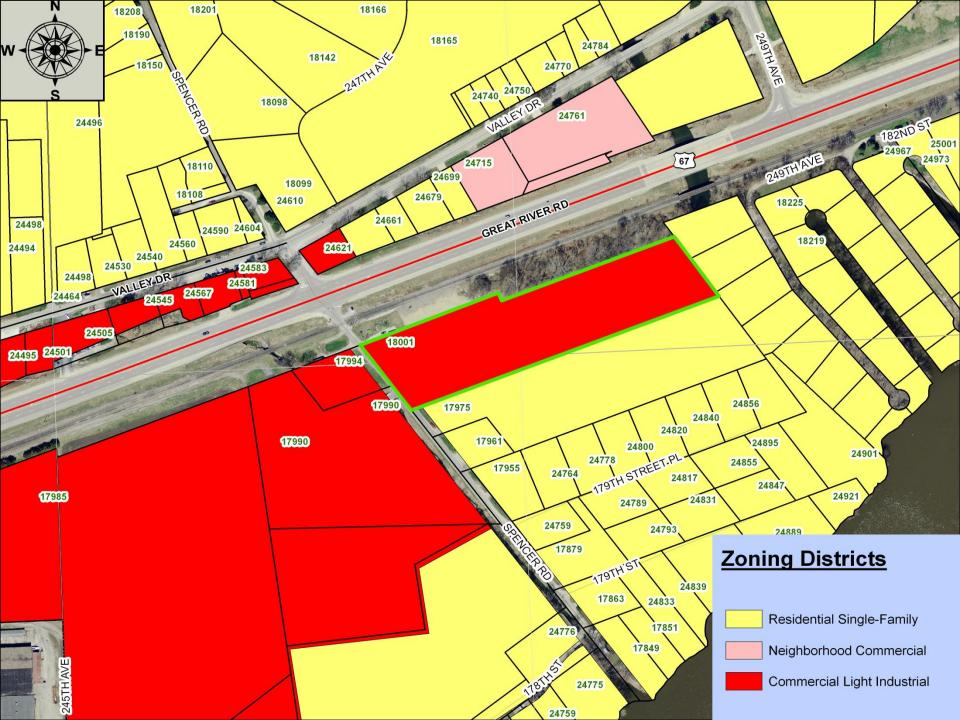
 Rezoning Application, Pleasant Valley
 Removal of "landscape only" use restriction for a C-2 zoned parcel

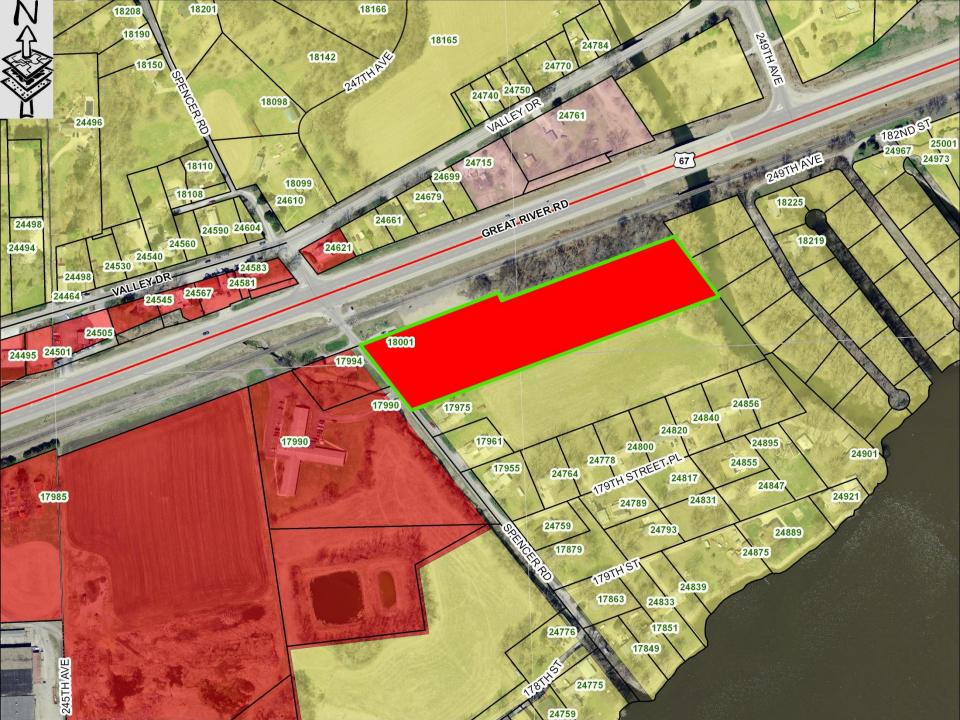


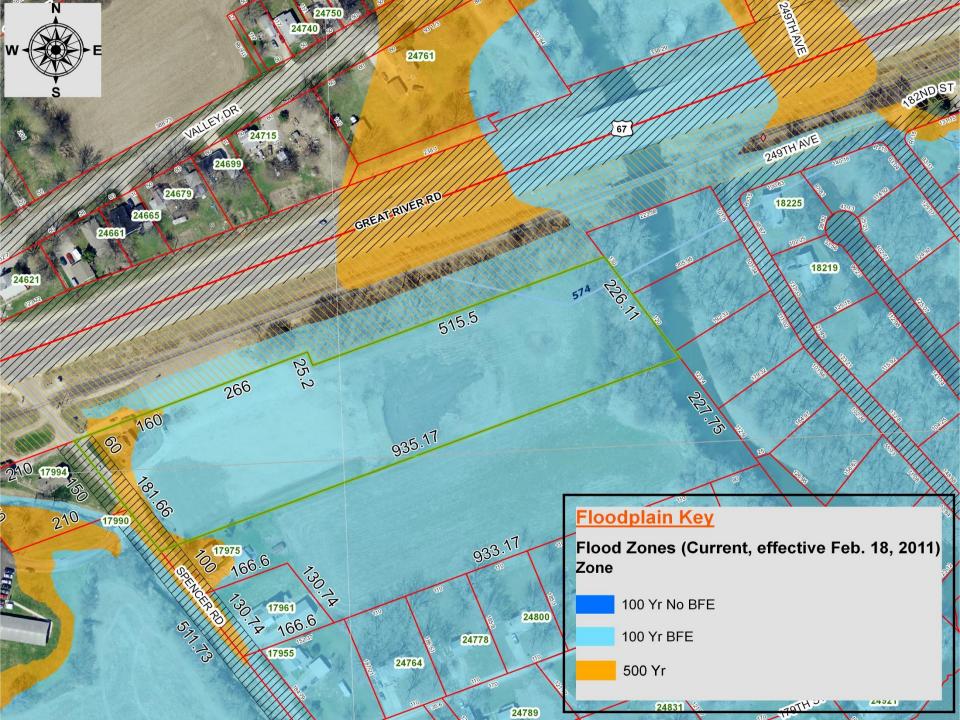


# Request

- Removal of "landscaping only" condition
  - Established as part of rezoning from R-1 to C-2 in 2004.
- Purpose: To allow for a used equipment repair and sales accessory use.
  - Incidental / Accessory to primary landscaping use
  - Not a significant portion of business
  - No expansion at this time

















## P & Z Recommendation

- Commission recommends approval of the rezoning of this property from C-2, with a landscaping only use condition, to C-2 without any use restrictions (with no additional conditions)
- Any future substantial expansion or change in primary use will trigger site plan review, and any site changes will be reviewed at that time



PLANNING & ZONING COMMISSION

**STAFF REPORT** 

December 18, 2012



Applicant:	Ed Collins / E&R Bros LLC (Applicant and owner of Horizon Outdoor Services)
Request:	To rezone a 4.72 acre parcel from conditional Commercial and Light Industrial (C-2), with a landscaping only use condition, to Commercial and Light Industrial (C-2), without a landscaping only use restriction
Legal Description:	A 4.72 acre parcel, of which approximately 0.88 acres lies within part of the $NW_{1/4}$ $NE_{1/4}$ and the $NE_{1/4}$ $NE_{1/4}$ of Section 18, and approximately 3.84 acres lies within part of the $SW_{1/4}$ $SE_{1/4}$ and the $SE_{1/4}$ $SE_{1/4}$ of Section 7, Pleasant Valley Township.
General Location:	18001 Spencer Road, Pleasant Valley, IA 52767
Existing Zoning:	Commercial and Light Industrial (C-2), with a landscaping only use condition
Proposed Zoning:	Commercial and Light Industrial (C-2), with no use restrictions
Surrounding Zonin	ıg:

# North:Commercial and Light Industrial (C-2), Single-Family Residential (R-1), and Neighborhood Commercial (C-1)South:Single Family Residential (R-1)East:Single Family Residential (R-1)

West: Commercial and Light Industrial (C-2)

**GENERAL COMMENTS:** This request is to rezone a 4.72 acre parcel from Commercial and Light Industrial (C-2), with a landscaping only use condition, to Commercial and Light Industrial (C-2), without a landscaping only restriction. The applicant requests the removal of this parcel's landscaping only condition, which was applied when the rezoning of this property from Single Family Residential (R-1) to Commercial and Light Industrial (C-2) was approved in 2004. The applicant's request is based upon his desire to operate a used equipment repair and sales business, incidental or accessory to the current primary use of this property as a landscaping business, but also to allow future expansion of that use or other unrelated commercial uses.

Removal of this condition would allow for a General Commercial and Light Industrial zoning district classification. The applicant has stated that he has no intention of changing the primary use of the property at this time. Any future significant expansion or initiation of a new use would require a site plan review and approval.



PLANNING & ZONING COMMISSION

STAFF REPORT

December 18, 2012



**STAFF REVIEW:** Staff has reviewed this request for its adherence to the Scott County Zoning Ordinance and to the Scott County Land Use Policies. The Zoning Ordinance states that it is the intent of the Commercial and Light Industrial Zoning District to provide for commercial and industrial establishments intended to serve the general needs of the County and the highway traveling public along adequately constructed paved County and State roads. Changes in land use and zoning should comply with a preponderance of the applicable Scott County Land Use Policies.

The Scott County Land Use Policies' guidelines for reviewing development proposals in rural areas are as follows:

#### *Is the development in compliance with the adopted Future Land Use Map?*

The Future Land Use Map does not anticipate any land use changes for this property. However, it is already zoned C-2, and surrounding property along U.S. Highway 67 and Valley Drive to the west and north is zoned C-2, and there is commercial and industrial development occurring along the Highway 67 corridor in this section of Pleasant Valley.

#### *Is the development occurring on marginal or poor agricultural land?*

The land use policies rank any soil with a CSR of 60 or greater as productive or prime agricultural soil. The Natural Resource Conservation Service has not responded to the notification of this rezoning request. However, a review of the Soil Survey for Scott County indicated that this property has soils identified as Ackmore silt loam with slopes ranging from 0% to 2%, and a Corn Suitability Rating of 83. These soils are classified as IIw for land capability, which indicate wet soil having moderate limitations requiring limited soil conservation practices when tilled. While most of this property would be considered prime agricultural land, because it is currently zoned to allow a commercial landscaping business and it is an isolated remnant of an agricultural parcel, this criterion would not apply to any great degree in this case.

#### Does the proposed development have access to adequately constructed paved roads?

The property has approximately 240 feet of frontage on Spencer Road, a hardsurfaced county-maintained road. The property lies about 100 feet south of the intersection of Spencer Road and U.S. Highway 67, a four lane State Highway. The County Engineer did not have any comments or concerns with this request.

## Does this proposed development have adequate provision for public or private sewer and water services?

The property is not currently served by either public sewer or water service, and therefore any development must comply with State health regulations for private wells and on-site wastewater treatment. The applicant is not proposing any



#### PLANNING & ZONING COMMISSION

**STAFF REPORT** 

December 18, 2012



expansions or additions that would burden the current water or wastewater systems serving this site. The Health Department has reviewed this request and did not have any comments.

Is the area near existing employment centers, commercial areas and does not encourage urban sprawl?

As previously stated, this property is near other commercial and industrial land uses and zoning districts to the north, west and southwest. It is also adjacent to residential property to the south and east.

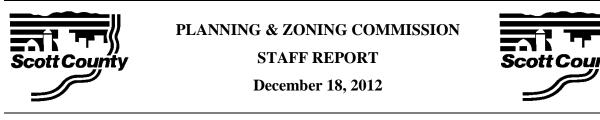
## *Is the proposed development located where it is least disruptive of existing agricultural activities?*

Before this property was rezoned from R-1 to C-2 in 2004, it was used for agricultural purposes. Similarly, the 4.31 acre parcel directly to the south of this property is zoned R-1 and is currently used for agricultural purposes. The property directly to the west is a nursing home, zoned C-2. As was the case with the original rezoning of this property back in 2004, the agricultural activities and land uses in this area of Pleasant Valley are on remnant parcels of agricultural land. Therefore, the addition of an accessory use on an existing C-2 zoned parcel will not be any more disruptive to any remaining agricultural uses, than existing development.

#### Does the area have stable environmental resources?

The east and southeast property line abuts Spencer Creek. The Mississippi River is approximately 700 to 800 feet, more or less, to the south and east of the property. When this property was originally rezoned from R-1 to C-2 back in 2004, and when the storage building was constructed in 2009 only a small easterly portion of the property fell within the 100-year floodplain. Following the 2004 rezoning, floodplain development permits were approved by both Scott County and the Iowa DNR to allow significant fill on the property which elevates most of the property out of the floodplain. The new FEMA floodplain maps for Scott County now designate the whole property as floodplain, with the majority within the 100-year, and a small northwest portion of the property, within the 500-year floodplain. All previous buildings on this property met the applicable floodplain regulations at the time of their construction. Again, no new structures are being proposed at this time, and any future buildings will be required to meet the meet floodplain regulations. The updated maps clearly did not account for the recent raising of the property, and the applicant could submit a letter of map amendment of FEMA to amend the current map.

*Is the proposed development sufficiently buffered from other less intensive land uses?* The site is buffered along its southern edge in accordance with the condition established during the site plan review for this property back in 2009. At that time, a site plan review was conducted to allow for the construction of a storage building. One of the conditions of approval passed by the Planning and Zoning Commission at



that time was that the site's trailer storage area be screened with evergreen landscaping. Any future expansion (deemed substantial by the Zoning Administrator) or change in use will require a site plan review, which will address adequate site buffering as part of that process.

#### *Is there a recognized need for such development?*

The applicant's business base is primarily within Scott County.

The notice of this public hearing was sent to the adjacent property owners within five hundred (500) feet. A sign has been placed on the property stating the date and time this request would be heard by the Planning and Zoning Commission. Staff has received a few phone calls with comments and concerns about this request. A few comments were in opposition to the request.

**RECOMMENDATION:** Staff recommends approval of the rezoning of this property from Commercial and Light Industrial (C-2), with a landscaping only use condition, to Commercial and Light Industrial (C-2) without a landscaping only use restriction. This recommendation is based upon the request's adherence to a preponderance of the criteria set forth in the Scott County Land Use Policies. The approval of this request grants this parcel of land a Commercial and Light Industrial (C-2) zoning district classification, with no use restrictions. However, as previously stated, any future expansion (deemed substantial) or future change in use will require a site plan review by the Planning and Zoning Commission. Such a review will address any number of site characteristics relevant to a specific request, including off-street parking and circulation areas, site layout, buffering, among others.

Submitted by: Planning Staff

December 14, 2012



Timothy Huey Director

To: Dee F. Bruemmer, County Administrator

From: Timothy Huey, Planning Director

Date: January 10, 2013

Re: County review and public hearing on the Construction Permit Application of Dennis Kirby, dba Kirby Farms, Inc in the SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> Section 21, T79N, R4E (Lincoln Township) for the expansion of a confined animal feeding operation located at 22293 200<sup>th</sup> Avenue.

On December 26<sup>th</sup> the above referenced application was submitted to the Iowa DNR. Scott County has 30 days from the date we received notice from the IDNR (Dec 29<sup>th</sup>) to submit comments and a recommendation on that application. Notice of the receipt of this application also must be published as a public notice. A public hearing was also set for the Board meeting on January 17<sup>th</sup> to take comments from the public. Both these notices have been published. In order to submit the County's recommendation on the application prior to the IDNR required deadline of January 29<sup>th</sup> the Board will need to act on its recommendation following the public hearing on January 17<sup>th</sup>.

This request is for the expansion of an existing hog confinement operation in Lincoln Township that requires compliance with the standards of the Master Matrix. The separation distances for an expansion of the size proposed requires that any residences, business, church or school be no closer 1,000 feet to the proposed site. This application meets that requirement and there are five houses within 2,000 feet of the site but all are greater than 1,000. There are no businesses, or schools within a mile of the site. Summit Church, at the corner of 200 Avenue and Utica Ridge Road is just over a ½ mile from the site. However it is staff's understanding that it does not have an active congregation and is only used occasionally for cemetery burials, religious services and events. The city limits of Davenport is 1 ¾ miles south of the site and Eldridge city limits are 2 miles west. In both cases, it is all agricultural land within the closest portions of the incorporated areas. There are no residential subdivisions, either within the cities or in the unincorporated areas within 2 miles of this site.

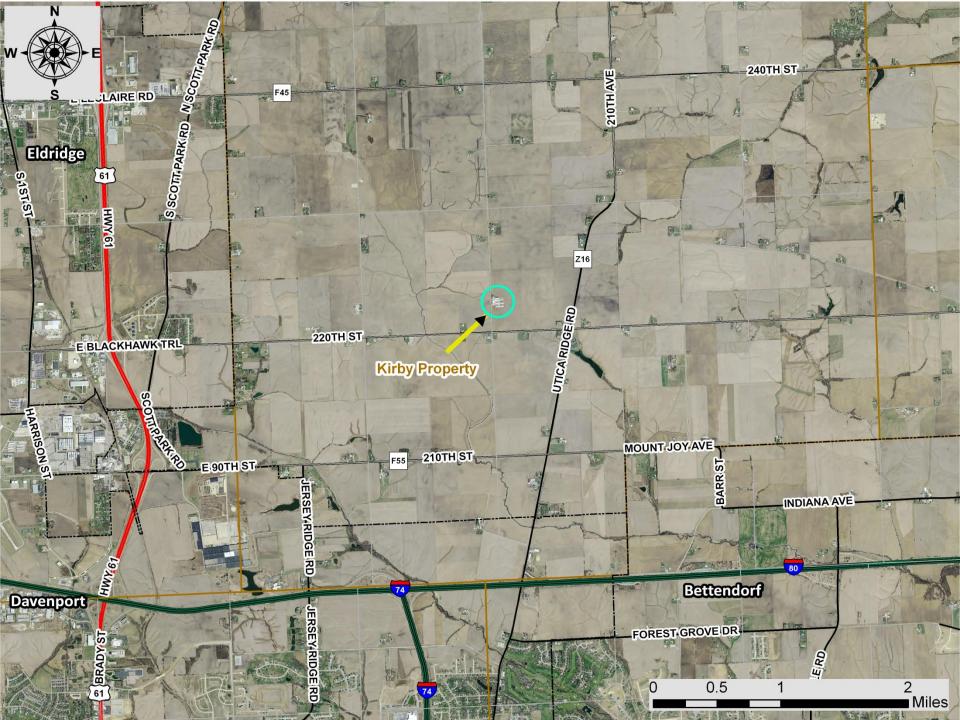
The site meets the distance requirements for water sources and designated wetlands. The building is also required to be setback a minimum of 100 feet from the County road right of way.

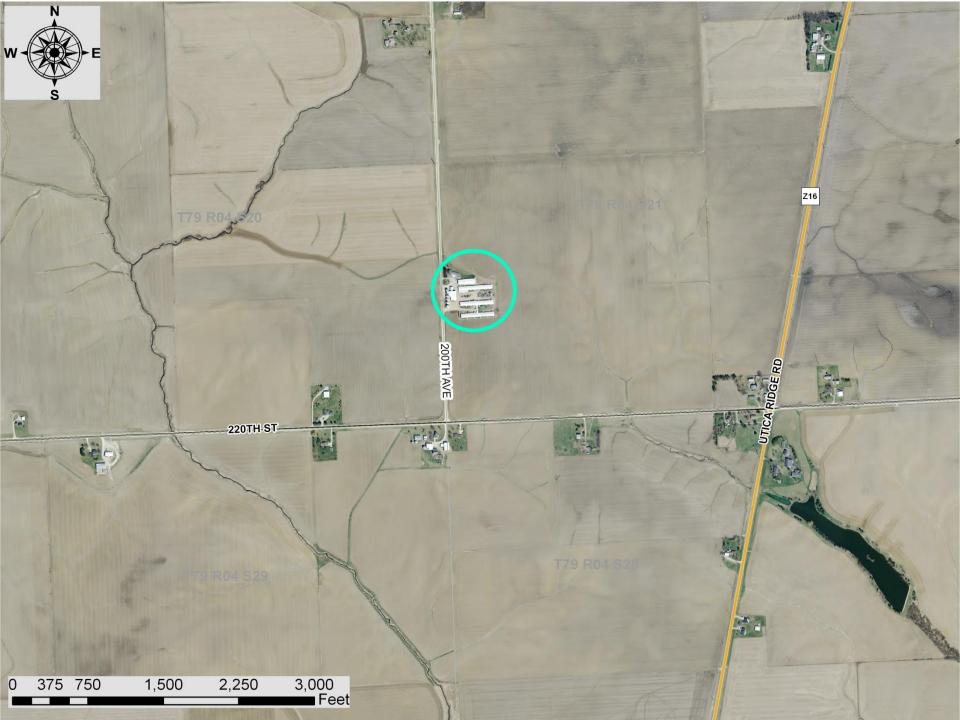
The Planning and the Health Department will present its review of this request at the Committee of the whole meeting.

Staff has not, as of yet, received any calls or comments on this application. Staff will include any written comments and a summary of any verbal comments received at the public hearing with the Board's recommendation to the IDNR.

Page 2 Memo on Kirby CAFO Expansion January 10, 2013

The IDNR inspector from the Washington, Iowa district office has scheduled his site inspection on Friday January 18<sup>th</sup>. Planning and Health Department Staff will accompany the IDNR on that site visit.







#### **Iowa Department of Natural Resources**

#### **Construction Permit Application Form**

#### **Confinement Feeding Operations**

#### **INSTRUCTIONS:**

Prior to constructing, installing, modifying or expanding a confinement feeding operation structure<sup>1</sup>, 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 structure<sup>2</sup>. 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): 61851
  - b. Date when the operation was first constructed: <u>1990</u>
  - c. Date when the last construction, expansion or modification was completed: 2005
  - (Not needed if the confinement operation has previously received a construction permit from DNR.) d. Is this also an ownership change?  $\Box$  Yes.  $\boxtimes$  No.

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

A)	Name of ope	eration: Kirby	Farms Inc.				
	Location:	SW	SW	21	79N 4E	Lincoln	Scott
		(1/4 1/4)	(1/4)	(Section)	(Tier & Range)	(Name of Township)	(County)
B) (	Owner inform	ation:					
	Name:	Dennis Kirby			Title:	Owner	
	Address:	22293 200 <sup>th</sup> A	lve., Davenj	oort, IA 5280	4		
	Telephone:	563-285-7319	) Fax	:	Email:		
C) I	Person to cont	act with question	ons about th	is application	ı (if different than ow	ner):	
	Name:				Title:		
	Address:						
	Telephone:		Fax	:	Email:		
	structure <sup>1</sup> ar	al photo or en nd all applicable ges 18 to 19, at t	e separation	i distances, as	wing the proposed l s requested in Attach	ocation of the confine ament 1 (pages 11 or 14	ment feeding operation 4). See example of aerial
	I manage or site. Please of	am the majorit contact the DNR	y owner of -AFO Progra	another confi am staff at (51	inement feeding oper 15) 281-8941 to verif	ration located within 2,5 y site adjacency require	500 feet of the proposed ments.

Revised 04/2011 cmz

RECE

DEC 26

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TT CO.

AUDIT

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<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> 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.lowaDNR.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 <u>AFO</u> <u>Siting Atlas</u>. 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 structure<sup>3</sup>, or constructing or modifying a confinement building that uses an unformed manure storage structure<sup>3</sup>.
- 2. Constructing, installing or modifying a confinement building or a formed manure storage structure<sup>2</sup> at a confinement feeding operation if, after construction, installation or expansion, the AUC of the operation is 1,000 animal units (AU) or more. This also applies to confinement feeding operations that store manure exclusively in a dry form.
- 3. Initiating a change that would result in an increase in the volume of manure or a modification in the manner in which manure is stored in any unformed manure storage structure<sup>3</sup>, even if no construction or physical alteration is necessary. Increases in the volume of manure due to an increase in animal capacity, animal weight capacity or AUC up to the limits specified in a previously issued construction permit do not require a new construction permit.
- 4. Initiating a change, even if no construction or physical alteration is necessary, that would result in an increase in the volume of manure or a modification in the manner in which manure is stored in a formed manure storage structure<sup>2</sup> if, after the change, the AUC of the operation is 1,000 AU or more. Increases in the volume of manure due to an increase in animal capacity, animal weight capacity or AUC up to the limits specified in a previously issued construction permit do not require a new construction permit.
- 5. Constructing or modifying any egg washwater storage structure or a confinement building at a confinement feeding operation that includes an egg washwater storage structure.
- 6. Initiating a change that would result in an increase in the volume of egg washwater or a modification in the manner in which egg washwater is stored, even if no construction or physical alteration is necessary. Increases in the volume of egg washwater due to an increase in animal capacity, animal weight capacity or AUC up to the limits specified in a previously issued construction permit do not require a new construction permit.
- 7. Repopulating a confinement feeding operation if it was closed for 24 months or more and if any of the following apply:
  - 1. The confinement feeding operation uses an unformed manure storage structure<sup>3</sup> or egg washwater storage structure;
  - 2. The confinement feeding operation includes only confinement buildings and formed manure storage structures<sup>2</sup> 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.

Revised 04/2011 cmz

<sup>&</sup>lt;sup>3</sup> Unformed manure storage structure = covered or uncovered anaerobic lagoon, earthen manure storage basin, aerobic earthen structure.

We are planning to build a gestation barn approximately 209 ft long and 101 ft wide. This barn will have a 10 ft deep concrete manure pit and will be covered by cement slats. It will house approximately 1,000 sows. (see attached map, section A). A current gestation barn will be converted from gestation to farrowing with no material changes to the structure or foundation. Animal units and manure production will be reduced (section B). Current gestation space will be converted to a nursery with no material changes to the structure or foundation. Animal units will remain the same and manure production will be reduced. (section C). 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:

- C) Master Matrix (must check one). If any of boxes 1 to 3 are checked, the operation is required to be evaluated with the master matrix if the county, where the confinement feeding operation structure<sup>1</sup> 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 <u>1,667 AU or more</u>, 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.
    - Other confinement feeding operations with an AUC of 5,333 AU or more.
  - 5.  $\square$  This is not a qualified operation because:
    - a.  $\square$  It is below the limits shown on boxes 1 to 4.
    - b. It includes a confinement feeding operation structure<sup>1</sup> 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 structure<sup>1</sup> is abandoned if the confinement feeding operation structure<sup>1</sup> has been razed, removed from the site of a confinement feeding operation, filled in with earth, or converted to uses other than a confinement feeding operation structure<sup>1</sup> so that it cannot be used as a confinement feeding operation structure<sup>1</sup> 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.

4.

Animal Enocios	a (Be	) Existing efore perm					
Animal Species	(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	600	0.4	240	1265	0.4	506	
Farrowing sows & litter	150	0.4	60	240	0.4	96	
Boars		0.4		10	0.4	4	-
Gilts		0.4		150	0.4	60	
Finished (Market) hogs	3200	0.4	1280	3200	0.4	1280	Note: If the "Existing AUC"
Nursery pigs 15 lbs to 55 lbs	600	0.1	60	600	0.1	60	(column a) is 500 AU or less, enter the "Total proposed
Sheep and lambs		0.1			0.1		AUC" (column b) in the "New
Horses		2.0			2.0		AU" (column c)
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		<b>c)</b> New AU = b) -
TOTALS:	a) Exis	sting AUC:	1640	b) Total	proposed AUC:	2006	366
		5		(This is t	he AUC of the o	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 Capa	a				d AWC			
Animal Species	(No. head) x	avg weight	= AWC	(No. head) x	avg weight	= AWC		
Slaughter or feeder cattle								
Immature dairy cattle								
Mature dairy cattle								
Gestating sows	600	400	240000	1265	400	506000		
Farrowing sows & litter	150	450	67500	240	450	108000		
Boars				10	400	4000		
Gilts				150	300	45000		
Finished (Market) hogs	3200	150	480000	3200	150	480000		
Nursery pigs 15 lbs to 55 lbs	. 600	35	21000	600	35	21000		
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							c)	New AWC = $b$ ) -
TOTALS	a) Exis	ting AWC:	808500	b) Total	proposed AWC:	1164000		35550
				(This is t	he AWC of the	operation)	5	

**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 structure<sup>1</sup> and AUC proposed. To determine which checklist to use, choose the option that best describes your confinement feeding operation:

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

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

If any of boxes 1 to 4 are checked, the operation meets the threshold requirements for an engineer<sup>4</sup> 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 engineer<sup>4</sup> and a Professional Engineer (PE) is not required. Use Submittal Checklist No. 1 (pages 10-12).

B) Unformed manure storage structure<sup>3</sup>: The proposed confinement feeding operation structure<sup>1</sup>, will be or will use an unformed manure storage structure<sup>3</sup> 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.

nmo Signature of Owner(s):

12/24/12 Date:

#### **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 9<sup>th</sup> 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 <u>http://www.iowadnr.gov</u> (select the link to "Animal Feeding Operations"). To contact the appropriate DNR Field Office, go to <u>http://www.iowadnr.gov/fo/index.html</u>.

 <sup>&</sup>lt;sup>4</sup> Threshold requirements for an engineer apply to the construction of a formed manure storage structure<sup>2</sup>. 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

#### 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
Dennis Kirby	22293 200 <sup>th</sup> Ave.		Davenport/IA	52804
Shelie A. Kirby	22293 200 <sup>th</sup> Ave.		Davenport/IA	52804
			······	
For each name above, pleas Check box " <b>None</b> ", below, if interest.	e list below all other confine there are no other confinem	ement feeding operations <u>ir</u> ient feeding operations in lo	<u>1 Iowa</u> in which that person owa in which the above list	n has an interest. ed person has an
<b>Operation Name</b>	Location (1/4 1/4, 1	/4, Section, Tier, Range, T	ownship, County)	City
None [There are no oth	er confinements in Iowa in v	which the above listed perso	on(s) has or have an intere	st].
I hereby certify that the info	rmation provided on this for	m is complete and accurate	2.	
Signature of Owner(s):	Alemie 1. 14	/	Date:2/23/	12

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

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

Credit fees to: Dennis Kirby

Name of operation: Kirby Farms Inc.

#### **NSTRUCTIONS:**

- 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. <u>Note</u>: 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:

- Example 2: An existing poultry operation is expanding from an 'Existing AUC' of 250 AU to a 'Total Proposed AUC' of 2,000 AU and has not paid the indemnity fee for animals housed in the existing buildings. Calculate the indemnity fee as follows: The 'Total Proposed AUC' is between 1,000 AU and 3,000 AU; the animal specie is poultry and the indemnity fee has not previously been paid, enter 2,000 AU in the 'New AU' column on row 3, and multiply it by \$0.06: (2,000 AU) x (\$ 0.06 per AU) = \$ 120.00
- Example 3: If you are proposing a new swine confinement feeding operation with a 'Total Proposed AUC' of 3,500 AU, enter 3,500 AU in the 'New AU' column, row 6 and multiply it by \$ 0.20:

   (3,500 AU) x (\$ 0.20 per AU) = \$ 700.00
- **Example 4**: If you are applying for a construction permit but you are not increasing the AUC of the operation, and has previously paid the applicable indemnity for the animals housed in the existing buildings, there is no indemnity fee due (\$ 0.00). If no indemnity fee is due, do not submit this page.

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
	1	Poultry		x	\$ 0.04 =	
Less than 1,000 AU	2	Other		X	\$ 0.10 =	
1 000 All and the last them 2 000 All	3	Poultry		x	\$ 0.06 =	
1,000 AU or more to less than 3,000 AU	4	Other	366	Х	\$ 0.15 =	54.90
	5	Poultry		x	\$ 0.08 =	
3,000 AU or more	6	Other		х	\$ 0.20 =	

#### **Indemnity Fee Table:**

ITEM 8 (Cont.)

#### Filing Fees Form for Construction Permits

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

Credit fees to: Dennis Kirby

Name of operation: Kirby Farms Inc.

#### **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)	54.90
- Total filing fees (see item 3 on this page) \$ to be deposited in the Animal Agriculture Compliance Fund (473)	500.00
TOTAL DUE: \$	554.90

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: De	ennis Kirby				Telephone:	563-285-7319
Name of ope	ration: <u>Kirby</u>	y Farms Inc.				
Location:	SW	SW	21	79N & 4E	Lincoln	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 structure<sup>1</sup> 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 structure<sup>3</sup> or an egg washwater storage structure submit documentation required in Addemdum "A" of this construction application form.
- Attachment 3 Manure management plan.
- Attachment 4 Master Matrix (if required). You must include supporting documents (see Checklist No. 1 or 2)

#### THIS SECTION IS RESERVED FOR THE COUNTY

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

Public Notice is required for <u>all</u> 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.

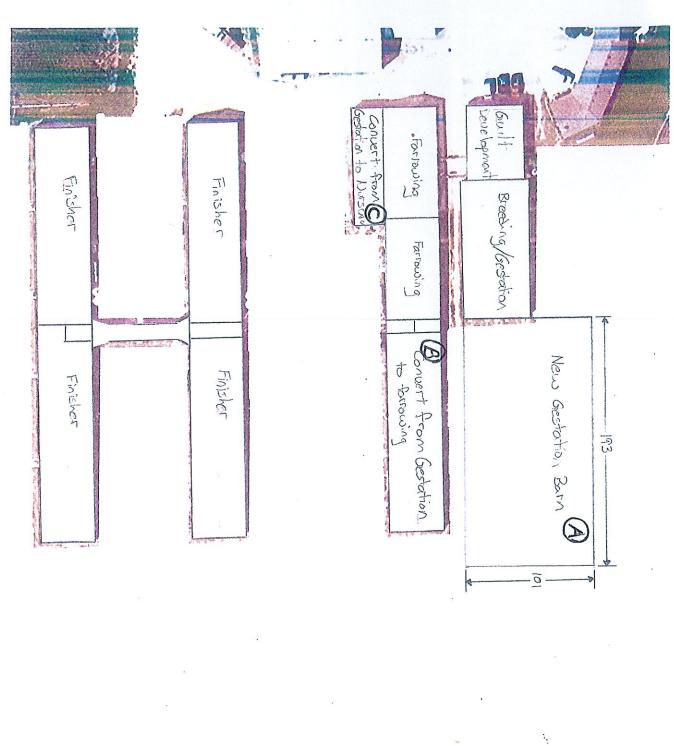
I have read and acknowledge the county's duty with this construction permit application, as specified in 567 IAC 65.10(455B) and Iowa Code 459.304. On behalf of the Board of Supervisors for:

animal feeding operations (AFO) Program at (515) 281-8941 or visit www.lowaDNR.gov

Revised 04/2011 cmz







AND A ANT ACADE OF STATES

### **Construction Design Statement (CDS)**

### Instructions:

- 1. This form is for new or expanding confinement feeding operations with an AUC<sup>1</sup> of more than 500 AU, not required to have a professional engineer (PE)<sup>2</sup>, that are proposing to construct a formed manure storage structure<sup>3</sup>.
- 2. Complete and submit Sections 1, 2 and 3 (pages 1 to 5).
- Complete and submit Section 4 (page 6) only if you are applying for a construction permit and are constructing three or more confinement feeding operation structures<sup>4</sup>.
- 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 PE<sup>2</sup>, do not use this CDS instead use DNR Form 542-8122.

### Section 1 - Information about the proposed formed manure storage structure<sup>3</sup>(s)

A) Information about t	the operation:
------------------------	----------------

Name of operation:	KIRBY FAR	MS INC.			Facility ID No.	:
Location:	SW	SW	21	T79N, R4E	LINCOLN	SCOTT
	(% %)	(%)	(Section)	(Tier & Range)	(Name of Township)	(County)

B) Description of the proposed formed manure storage structure<sup>3</sup>. Include dimensions (length, width, or diameter, depth). Indicate if it is aboveground or belowground; covered or uncovered, made of concrete or steel. If necessary attach more pages:

101'10" x 209'4" x 10' Deep, Belowground, Covered, Concrete Pit Foundation

C) Karst Determination: Go to <u>http://www.iowadnr.gov</u>, select the link to 'Environment' then click on 'Mapping and GIS'. then click on AFO Siting Atlas. Click on the red push pin icon to enter a legal description of the proposed location. Make sure the karst box is checked in the left legend. If you cannot access the map, or if you have questions about this issue, contact the AFO Engineer at 712-262-4177. Check one of the following:

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

- The Siting Atlas has indicated that the site is in karst. The upgraded concrete standards of 567 IAC 65.15(14)"c" must be used. Complete and sign Section 3,H (page 5).
- D) Alluvial Soils Determination: Go to <u>http://www.iowadnr.gov</u>, select the link to 'Environment' then click on 'Mapping and GIS' then click on AFO Siting Atlas. Click on the red push pin icon to enter a legal description of the proposed location. Make sure the alluvial box is checked in the left legend. If you cannot access the map, or if you have questions about this issue, contact DNR Flood Plain at 1-866-849-0321. Check one of the following:
  - The site is not in alluvial soils. Print and enclose the map with the name and location of the site clearly marked.
    - ] If the site is in alluvial soils contact DNR Flood Plain at 866-849-0321. You will be required to submit a petition for a declaratory order if less than 1000 AU or request a flood plain determination if 1000 AU or greater. After receiving Flood Plain determination, submit one of the following:
      - Include correspondence from the DNR showing the site is not in 100-year flood plain or does not require a Flood Plain permit.
      - Include copy of the Flood Plain permit if a Flood Plain permit is required.

### Section 2 - Manure management plan:

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

Dennis Kirby

**Owner's Name (print)** 

**Owner's Signature** 

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

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

<sup>&</sup>lt;sup>3</sup> Formed manure storage structure means a covered or uncovered concrete or steel tank, including concrete pits below the floor.

<sup>&</sup>lt;sup>4</sup> Confinement feeding operation structure = A confinement building, a formed or unformed manure storage structure, or an egg washwater storage structure.

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

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

- A.1 A non-circular concrete tank, belowground, with walls laterally braced or below the building concrete pit designed according to 567 IAC Chapter 65, Appendix D.
- A.2 A non-circular concrete tank, belowground, walls designed according to MidWest Plan Service (MWPS), publication MWPS-36. Include design calculations.
- A.3 A circular concrete tank, walls designed according to MidWest Plan Service (MWPS), publication MWPS TR-9. Include design calculations.
- A.4 Will be made of steel, constructed aboveground according to the manufacturer's recommendations.
- B) Dry manure: The proposed formed manure storage structure<sup>3</sup> will be (check one):
  - B.1 An aboveground concrete tank, with walls designed according to MWPS-36. Include design calculations.
  - B.2 Will be made of steel, constructed aboveground according to the manufacturer's recommendations.
  - B.3 Will be a belowground or partially belowground concrete tank, with walls laterally braced designed according to 567 IAC Chapter 65, Appendix D or MWPS-36. Include design calculations.
- C) Details of the proposed design: Submit an additional completed copy of this page 2 for each formed manure storage structure<sup>3</sup> that have <u>different</u> dimensions. Complete all of the following information:

Number of buildings: 1 Building name: Gestation

\_\_\_\_\_

Dimensions of proposed formed manure storage structure<sup>3</sup>

	Length	Width	Height or depth	Wall thickness	Diameter (circular tanks only)
Feet	209	101	10	0	
Inches	4	10	0	10	

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

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

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

Maximum spacing of steel, in inches

	Proposed vertical steel in walls [see boxes "a" and "b", above]				
Description of reinforcing steel in walls	Walls where vehicles are <u>not</u> allowed within 5 feet (use Table D-1 ) <sup>a</sup>	All walls with pumpout ports and walls where vehicles are allowed within 5 feet (use Table D-2) <sup>a</sup>	Walls where vehicles are <u>not</u> allowed within 5 feet (use Table D-3 ) <sup>b</sup>	All walls with pumpout ports and walls where vehicles are	Proposed horizontal steel in walls (use Table D-5)
Grade 40, No. 4					
Grade 40, No. 5					
Grade 60, No. 4					
Grade 60, No. 5				10"	17"

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

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

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

Name of tank manufacturer company: \_\_\_\_\_\_ Address: \_\_\_\_\_\_

Telephone:

### F) Additional construction design standards:

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

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

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

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

### Additional Requirements that will be followed during construction of the formed manure storage structure(s)<sup>3</sup>:

- 1. Site preparation (check the following box):
  - The finished subgrade of a formed manure storage structure shall be graded and compacted to provide a uniform and level base and shall be free of vegetation, manure and debris. For the purpose of this subrule, "uniform" means a finished subgrade with similar soils.
- 2. Groundwater separation requirements (check one of the following boxes):

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

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

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

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

- 4. Cement and aggregates specifications (check the following box):
  - Cementitious materials shall consist of Portland cement conforming to ASTM C 150. Aggregates shall conform to ASTM C 33. Blended cements in conformance with ASTM C 595 are allowed only for concrete placed between March 15 and October 15. Portland-pozzolan cement or Portland blast furnace slag blended cements shall contain at least 75 percent, by mass, of Portland cement.
- 5. Concrete consolidation and vibration requirements (check the following box):
   All concrete placed for walls shall be consolidated or vibrated, by manual or mechanical means, or a combination, in a manner which meets ACI 309.
- 6. Minimum rebar specifications: (check the following box):
   All rebar used shall be a minimum of grade 40 steel. All rebar, with the exception of rebar dowels connecting the walls to the floor or footings, shall be secured and tied in place prior to the placing of concrete.
- 7. Wall reinforcement placement specifications (check the following box):
  - All wall reinforcement shall be placed so as to have a rebar cover of 2 inches from the inside face of the wall for a belowground manure storage structure. Vertical wall reinforcement should be placed closest to the inside face. Rebar placement shall not exceed tolerances specified in ACI 318.

- 8. Minimum floor specifications. Complete part a) and b):
  - a) Floor thickness requirements (check the following box):
    - The floor slab shall be a minimum of 5 inches thick. Nondestructive methods to verify the floor slab thickness may be required by the department. The results shall indicate that at least 95 percent of the floor slab area meets the minimum required thickness. In no case shall the floor slab thickness be less than 4½ inches.
  - b) The floor slab reinforcement shall be located in the middle of the thickness of the floor slab (check one of the following boxes):
    - Formed manure storage structures with a depth of 4 feet or more shall have primary reinforcement consisting of a minimum of #4 rebar placed a maximum of 18 inches on center in each direction placed in a single mat.
    - Formed manure storage structure with a depth less than 4 feet shall have shrinkage reinforcement consisting of a minimum of 6 × 6-W1.4 × W1.4 welded wire fabric.
- 9. Minimum footing specifications (check the following box):
  - The footing or the area where the floor comes in contact with the walls and columns shall have a thickness equal to the wall thickness, but in no case be less than 8 inches, and the width shall be at least twice the thickness of the footing. All exterior walls shall have footings below the frostline. Tolerances shall not exceed -½ inch of the minimum footing dimensions.
- 10. Requirement to connect walls to footings (check one of the following boxes):
  - The vertical steel of all walls shall be extended into the footing, and be bent at 90°, <u>OR</u>
  - A separate dowel shall be installed as a #4 rebar that is bent at 90° with at least 20 inches of rebar in the wall and extended into the footing within 3 inches of the bottom of the footing and extended at least 3 inches horizontally, as indicated in Appendix D, Figure D-1 (page 10). Dowel spacing (bend or extended) shall be the same as the spacing for the vertical rebar.

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

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

- Concrete forms specifications (check the following box):
   All walls shall be formed with rigid forming systems and shall not be earth-formed.
- 12. Curing of concrete requirements (check the following box):
  - All concrete shall be cured for at least seven days after placing, in a manner which meets ACI 308, by maintaining adequate moisture or preventing evaporation. Proper curing shall be done by ponding, spraying or fogging water; or by using a curing compound that meets ASTM C 309; or by using wet burlap, plastic sheets or similar materials.
- 13. Construction joints and waterstops specifications (check the following box):
  - All construction joints in exterior walls shall be constructed to prevent discontinuity of steel and have properly spliced rebar placed through the joint. Waterstops shall be installed in all areas where fresh concrete will meet hardened concrete as indicated in Appendix D, Figures D-1 and D-2, at the end of this chapter. The waterstops shall be made of plastic, rolled bentonite or similar materials approved by the department.
- 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.
- Additional design requirements (check the following box, if applicable):
   A formed manure storage structure with a depth greater than 12 feet shall be designed by a PE or an NRCS engineer.

**G)** Construction Certification: The person responsible for constructing the formed manure storage structure<sup>3</sup> 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)<sup>3</sup> at the operation:

Name of operation:	Kirby Farms Inc.		County:	Scott
Owner's name:	Dennis Kirby			
will be constructed in	accordance with the	se minimum requirements. Included with this o	certification are	:
Pages 3 to 5 (a)	pplicable sections)	orage structure <sup>3</sup> that have different dimensions	5	
Darrin Vittetoe		Dani Vittle		12-24-12
(Print n	- · · · · · · · · · · · · · · · · · · ·	(Signature)		(Date)
Custom Builders Inc.		209 W. South St. Tipton, la. 52772		563-886-6196
(Comp See page 6 for mailing instit		(Address)		(Phone No.)

H) Upgraded Concrete Standards Certification: If "Yes" was checked in Section 1.C (page 1) --site exhibits karst terrain or drains into a known sinkhole-- the person responsible for constructing the formed manure storage structure must also complete this section:

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

- (1) A minimum 5-foot vertical separation distance between the bottom of a formed manure storage structure and limestone, dolomite, or other soluble rock is required if the formed manure storage structure is not designed by a PE or an NRCS engineer.
- (2) If the vertical separation distance between the bottom of the proposed formed manure storage structure and limestone, dolomite, or other soluble rock is less than 5 feet, the structure shall be designed and sealed by a PE or an NRCS engineer who certifies the structural integrity of the structure. A 2-foot-thick layer of compacted clay liner material shall be constructed underneath the floor of the formed manure storage structure. However, it is recommended that any formed manure storage structure be constructed aboveground if the vertical separation distance between the bottom of the structure and the limestone, dolomite, or other soluble rock is less than 5 feet.
- (3) In addition, in an area that exhibits karst terrain or an area that drains into a known sinkhole, a PE, an NRCS engineer or a qualified organization shall submit a soil exploration study based on the results from soil borings or test pits to determine the vertical separation between the bottom of the formed structure and limestone, dolomite, or other soluble rock. A minimum of two soil borings or two test pits, equally spaced within each formed structure, are required. After soil exploration is completed, each soil boring and pit shall be properly plugged with concrete grout, bentonite, or similar materials.
- (4) Groundwater monitoring shall be performed as specified by the department.
- (5) Backfilling shall not start until the floor slats have been placed or permanent bracing has been installed, and shall be performed with material free of vegetation, large rocks, or debris.

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

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

(See page 6 for mailing instructions)

02/2012 cmz

DNR Form 542-8068

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

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 structures<sup>4</sup> at:

Name of operation:	County:
Owner's name: will not impede the drainage of established drainage tile lines which cross their property line tile lines, I will take the necessary measures to reestablish drainage and, upon completion those measures were taken to reestablish drainage."	nes and if construction disturbs drainage on of construction, file a statement that

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

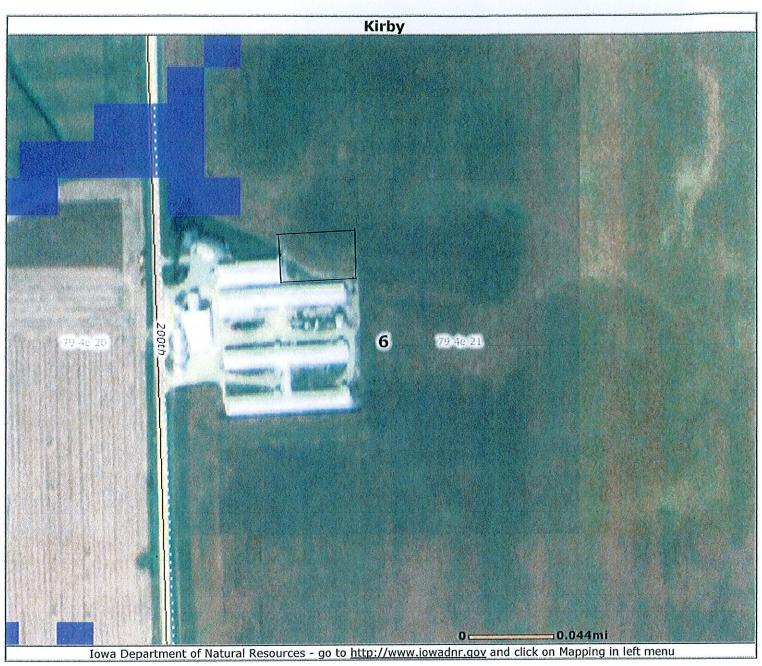
Mailing Instructions: Mail only pages 1 to 5, and page 6 (if applicable) of this CDS according to the following:

 Operations not needing a construction permit (AUC<sup>1</sup> between 501 and 999 AU and constructing a formed manure storage structure<sup>3</sup>) but required to submit a manure management plan (MMP), at least <u>30 days</u> 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	Field Office 3	Field Office 5
909 W Main St Ste 4	1900 N Grand Ave	401-SW 7 <sup>th</sup> St Ste I
Manchester, IA 52057	Spencer, IA 51301	Des Moines, IA 50309
(563) 927-2640	(712) 262-4177	(515) 725-0268
Field Office 2	Field Office 4	Field Office 6
2300 16th St SW	1401 Sunnyside Ln	1023 W Madison
Mason City, IA 50401	Atlantic, IA 50022	Washington, IA 52353
(641) 424-4073	(712) 243-1934	(319) 663-2135

If a construction permit is required (AUC<sup>1</sup> = 1,000 AU or more and constructing a formed manure storage structure<sup>3</sup>), 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 <u>http://www.iowadnr.gov/</u>.



D	I owa 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
	R: <u>1-563-326-8257</u> wa DNR, Paul Petitti
NUMBER OF	PAGES (including this cover sheet): 4
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

### Dec. 28. 2012 3:08PM

revised 1/2011(lw)



### PRINTED ON 30% POST CONSUMER RECYCLED PAPER

IDNR Field Ofc 3 17122622901

No. 5074 P. 2

542-1352.4



Terry E. Branstad, Governor Kim Reynolds, Lt. Governor DEPARTMENT OF NATURAL RESOURCES CHUCK GIPP, DIRECTOR

December 28, 2012

Scott County Board of Supervisors c/o County Auditor Via facsimile only

### REF: Public Notice, Matrix Evaluation and County's Recommendation Required DNR's Facility ID No. 61851

Dear Board of Supervisors:

The DNR has received a construction permit application for a confinement feeding operation: Facility name: Kirby Farms, Inc.

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 0<u>1/15/2013</u> (within 14 days of DNR's receipt of the application) and furnish proof of publication to the DNR:

<u>Note</u>: 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 recommendation regarding this application. The county must submit to the DNR all of the following:
  - A) A recommendation to approve or to disapprove the application.
  - B) Your scoring of the Matrix, including all supporting calculations.
  - C) A copy of the Matrix as approved by the board.
  - D) Proof of publication of Public Notice.

### Your recommendation and Matrix score must be received by the DNR no later than 1/29/2013 (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 an evaluation resolution.

- 3. The board may submit comments or may forward comments from the public, which must be received by DNR no later than <u>01/29/2013</u>. 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, Matrix scoring, a copy of the Matrix as approved by the board and any public comments must be received by IDNR no later than <u>01/29/2013</u>. To ensure timely submittal, we recommend that you also fax or scan and email proof of publication, County's recommendation, Matrix scoring and a copy of the Matrix as approved 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 Paul.Petitti@dnr.iowa.gov

If you have any questions about this process, please contact Paul at (712)262-4177,

Sincerely,

**ENVIRONMENTAL SERVICES DIVISION** 

Paul Petitti

Field Services and Compliance Bureau

### **PUBLIC NOTICE**

(This section is to be completed by the applicant)

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

Name of Applicant: Dennis Kirby

Location of the operation: Section 21 Lincoln Township. Type of confinement feeding operation structure<sup>‡</sup> proposed: One new deep pit swine gestation barn and conversion of two existing confinement buildings by remodeling at an existing swine confinement facility.

Animal Unit Capacity Of The Operation after Expansion: 2006 animal units.(1265 gestating sows, 240 farrowing sows, 10 boars, 150 gilts, 3200 finishers and 600 nurserv swine)

(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).

### **Manure Management Plan Form** drir Page 1 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. Date: Signed: (Print name) (Signature) 61851 Facility ID No. Name of operation: Kirby Farms Inc. Location of the operation: 22293 200th Ave (911 address) 52804 IA Davenport (Zip) (State) (Town) Scott Co. Lincoln R 4 E T 79 N 1/4 of the SW 1/4 of Sec 21 SW (County) (Township Name) (Section) (Tier & Range) (1/4) $(1/4 \ 1/4)$ Owner and contacts of the animal feeding operation: Phone 563-285-7319 Dennis Kirby Owner Address 22293 200th Ave, Davenport, IA 52804 Cell phone (optional) E-mail address (optional) Phone Contact person (if different than owner) Address Cell phone (optional) E-mail address (optional) Phone Contract company (if applicable) Address This manure management plan is for: (check one) existing operation, new owner new operation X existing operation, expanding existing operation, not expanding date of initial construction 1990 **Construction and Expansion Dates:** and all expansions 2005 1995/1998/2000 1991/1992/1993 Table 1. Information about livestock production and manure management system 8 7 6 5 4 3 2 1 Max # of Annual Manure Days/yr Facility Animal type/ animals N<sup>c</sup> Produced<sup>e</sup> gal/space/dyd occupied $P_2O_5$ Manure Storage Structure <sup>p</sup> confined Production phase<sup>a</sup> 794.000 340 54 26 0.73 W-F Deep Pits Wean/finish (wet/dry) 3200 Ŧ 1,423,000 3.10 360 12 Gestation & Boars Gest Deep Pits 15 1275 246,000 3.10 330 15 12 Gest Deep Pits Sow and Litter Ŧ 240 40,000 330 0.2 15 12 Gest Deep Pits 600 Nursery 81.000 360 1.5 12 15 Gest Deep Pits 150 Gilt Development 2,584,000 **Total Gallons** 10,000 animals/year Estimated annual animal production': Manure Tests and pumping records

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

Sow and Nusery manure to be stored together.

### Manure Management Plan Form

Determining Maximum Allowable Manure Application Rates

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

### Management Identification (Mgt ID)<sup>g</sup>

### F - Corn1-Corn2-Soybeans Wean to Finish Bldgs

(identify this application scenario by letter)

Method to determine optimum crop yield<sup>h</sup> Iowa Ag Statistic Yields Method of application<sup>1</sup> Surface-apply liquid or solid (dry) manure with incorporation within 24 t -If spray irrigation is used, identify method<sup>1</sup>

### Table 2. Manure nutrient concentration

N	k k	W-F Deep Pi	to		
Manure Storage Structur	e(s)	w-r Deep ri	15	T	
Total N <sup>1</sup>	54		$P_2O_5$	26	
% TN Available 1st year	100%	2nd year		3rd year	
Available N 1st year <sup>m</sup>		2nd year <sup>n</sup>	0	3rd year <sup>o</sup>	0

### Table 3. Crop usage rates<sup>p</sup>

**Timing of application** 

Application loss factor

lb/bu or lb/ton	N	P <sub>2</sub> O <sub>5</sub>
Corn	1.2 🔻	0.375
Soybean	3.8	0.8
Alfalfa	50	12.5
Other crop 👻	0	0

Page 2

Fall

0.95

\*Use blank space above to add crop not listed.

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

	Applying Manure For (crop to be grown) <sup>q</sup>		Com 👻	Com 👻	Soybean 👻 Select Crop 👻
		bu or ton/acre	193	193	59.9
2	Optimum Crop Yield <sup>h</sup>	lb/acre	72.4	72.4	47.9 0.0
	P <sub>2</sub> O <sub>5</sub> removed with crop by harvest <sup>r</sup>		232	232	228 0
	Crop N utilization <sup>s</sup>	lb/acre	50.00	0	0 0
	Legume N credit <sup>†</sup>	lb/acre	30.00	30	
	Commercial N planned <sup>a</sup>	lb/acre	3		<u> </u>
5c	Manure N carryover credit <sup>v</sup>	lb/acre	0	0	228 0
6	Remaining crop N need <sup>w</sup>	lb/acre	177	202	
7	Manure rate to supply remaining N <sup>x</sup>	gal or ton/acre	3400	3900	4400 0
8	P <sub>2</sub> O <sub>5</sub> applied with N-based rate <sup>y</sup>	lb/acre	88	101	114 0

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

1211	e 3. Calculations for rate based on prosperior					
	Commercial P <sub>2</sub> O <sub>5</sub> planned <sup>z</sup>	lb/acre	0	0	0	
	Manure rate to supply P removal <sup>aa</sup>	gal or ton/acre	2800	2800	1800	0
	Manure rate for P based plan <sup>bb</sup>	gal or ton/acre	3700	3700	0	
	Manure N applied with P-based plan <sup>cc</sup>	ib/acre	190	190	0	0

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

Table V. Application futes that while so that					
13 Planned manure application rate <sup>dd</sup>	gal or ton/acre	3400	3900	0	

When applicable, manure application rates must be based on the P index value as follows:

(0-2) N-based manure management.

<sup>(&</sup>gt;2-5) N-based manure management but P application rate cannot exceed two times the P removal rate of the crop schedule.

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

<sup>(&</sup>gt;10) No manure application until practices are adopted to reduce P index to 5 or below

### **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 fillin

### Management Identification (Mgt ID)<sup>g</sup>

### C-C) Corn-Corn Wean to Finish Bldg

(identify this application scenario by letter)

Method to determine optimum crop yield<sup>h</sup> Iowa Ag Statistic Yields Method of application<sup>i</sup> Surface-apply liquid or solid (dry) manure with incorporation within 24 h If spray irrigation is used, identify method <sup>1</sup>

### **Table 2. Manure nutrient concentration**

	k		00gal or		
<b>Manure Storage Structur</b>	'e(s) *	Deep Pit			
Total N <sup>1</sup>	54		P <sub>2</sub> O <sub>5</sub>	26	
% TN Available 1st year	100%	2nd year		3rd year	
Available N 1st year <sup>m</sup>	51	2nd year <sup>n</sup>	0	3rd year <sup>o</sup>	0

### Table 3. Crop usage rates<sup>p</sup>

Timing of application

Application loss factor

lb/bu or lb/ton	Ň	P <sub>2</sub> O <sub>5</sub>
Corn	1.2 🔫	0.375
Soybean	3.8	0.8
Alfalfa	50	12.5
Other crop 🚽	0	0

A.

Page 2

Fall

0.95

Select Crop -

0.0

\*Use blank space above to add crop not listed.

### Table 4. Calculations for rate based on nitrogen (always required) Select Croj 🗸 Com Com Applying Manure For (crop to be grown)<sup>q</sup> 1 193 193 Optimum Crop Yield<sup>b</sup> bu or ton/acre 2 0.0 72.4 72.4 P2O5 removed with crop by harvest lb/acre 3

4	Crop N utilization <sup>s</sup>	lb/acre	232	232	0	U
	Legume N credit <sup>t</sup>	lb/acre	0.00	0	0	0
	Commercial N planned <sup>u</sup>	lb/acre	30	30	0	0
	Manure N carryover credit <sup>v</sup>	lb/acre	0	0	0	0
1	Remaining crop N need <sup>w</sup>	lb/acre	202	202	0	0
	Manure rate to supply remaining N <sup>x</sup>	gal or ton/acre	3900	3900	0	0
8	$P_2O_5$ applied with N-based rate <sup>y</sup>	lb/acre	101	101	0	0

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

1 (1 (1 ))	C. Calculations for faite subtract F					~
9	Commercial P <sub>2</sub> O <sub>5</sub> planned <sup>z</sup>	lb/acre	0	0	0	0
	Manure rate to supply P removal <sup>aa</sup>	gal or ton/acre	2800	2800	0	0
	Manure rate for P based plan 66	gal or ton/acre	3000	3000	0	0
	Manure N applied with P-based plan <sup>cc</sup>	lb/acre	154	154	0	0

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

Tuble of Application Factor					
13 Planned manure application rate <sup>dd</sup>	gal or ton/acre	3900	3900	0	0

When applicable, manure application rates must be based on the P index value as follows:

(0-2) N-based manure management.

<sup>(&</sup>gt;2-5) N-based manure management but P application rate cannot exceed two times the P removal rate of the crop schedule.

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

<sup>(&</sup>gt;10) No manure application until practices are adopted to reduce P index to 5 or below

### **Manure Management Plan Form**

Determining Maximum Allowable Manure Application Rates

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

### Management Identification (Mgt ID)<sup>g</sup>

S - Corn1-Corn2-Soybeans Sow Manure

(identify this application scenario by letter)

Method to determine optimum crop yield<sup>h</sup> Iowa Ag Statistic Yields Method of application<sup>i</sup> Surface-apply liquid or solid (dry) manure with incorporation within 24 h If spray irrigation is used, identify method <sup>1</sup>

### **Table 2. Manure nutrient concentration**

		tent (lbs/100			
Manure Storage Structur	re(s) "	Deep Pit			<u></u>
Total N <sup>1</sup>			P <sub>2</sub> O <sub>5</sub>	12	<u></u>
% TN Available 1st year	100%	2nd year		3rd year	
Available N 1st year <sup>m</sup>			0	3rd year <sup>o</sup>	0

### Table 3. Crop usage rates<sup>1</sup>

**Timing of application** 

Application loss factor

lb/bu or lb/ton	N	P <sub>2</sub> O <sub>5</sub>
Corn	1.2 🔻	0.375
Soybean	3.8	0.8
Alfalfa	50	12.5
Other crop 👻	0	0

Page 2

Fall

0.95

\*Use blank space above to add crop not listed.

### Calculations for rate based on nitrogen (always required)

	e 4. Calculations for rate based on introgen	(unujs roqui	Com -	Com 👻	Soybean 👻	Select Crop 🗸
1	Applying Manure For (crop to be grown) <sup>q</sup>			_لمس_	59.9	
2	Optimum Crop Yield <sup>h</sup>	bu or ton/acre	193	193		0.0
3	P <sub>2</sub> O <sub>5</sub> removed with crop by harvest <sup>r</sup>	lb/acre	72.4	72.4	47.9	0.0
	Crop N utilization <sup>8</sup>	lb/acre	232	232	228	0
5a	Legume N credit <sup>t</sup>	lb/acre	50.00	0	0	0
	Commercial N planned <sup>u</sup>	lb/acre	60	110	0	0
	Manure N carryover credit <sup>v</sup>	lb/acre	0	0	0	0
	Remaining crop N need <sup>w</sup>	lb/acre	122	122	228	0
<u>6</u> 7	Manure rate to supply remaining N <sup>×</sup>	gal or ton/acre	8500	8500	16000	0
- <u>_</u>	$P_2O_5$ applied with N-based rate $y$	lb/acre	102	102	192	0

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

1 2 1 1	e 5. Calculations for rate based on phosphere	- (	·····		0	<u> </u>
	Commercial P2O5 planned <sup>z</sup>	lb/acre	0	0	0	<u> </u>
			6000	6000	4000	0
10	Manure rate to supply P removal aa	gal or ton/acre	0000			
	Manure rate for P based plan bb	gal or ton/acre	8000	8000	0	
				114	0	0
12	Manure N applied with P-based plan <sup>cc</sup>	1b/acre	114	114	<u> </u>	

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

	Table 0. Application rules that the		T				
1	dd	nal or toplagra	8500	8500	0	0	
	13 Planned manure application rate	gal or ton/acre		<u> </u>			

When applicable, manure application rates must be based on the P index value as follows:

<sup>(0-2)</sup> N-based manure management.

<sup>(&</sup>gt;2-5) N-based manure management but P application rate cannot exceed two times the P removal rate of the crop schedule.

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

<sup>(&</sup>gt;10) No manure application until practices are adopted to reduce P index to 5 or below

### **Manure Management Plan Form**

### **Determining Maximum Allowable Manure Application Rates**

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

### Management Identification (Mgt ID)<sup>g</sup>

### SS -- Corn1-Corn2-Soybeans Sow Manure-Surface

(identify this application scenario by letter)

Method to determine optimum crop yieldh Iow	a Ag Statistic Yields	Timing of application Fall	
Method of application <sup>1</sup> Surface apply liquid manure w	with no incorporation	Application loss factor	0.75
If spray irrigation is used, identify method <sup>1</sup>	· · · · · · · · · · · · · · · · · · ·		<u></u>

### Table 2. Manure nutrient concentration

Manure Nutri	<u>ent Cor</u>	tent (lbs/1000	igal or	IDS/ton)	
Manure Storage Structur	e(s) <sup>k</sup>	Deep Pit			<u>.</u>
Total N <sup>1</sup>	15		P <sub>2</sub> O <sub>5</sub>	12	
% TN Available 1st year	100%	2nd year		3rd year	
Available N 1st year <sup>a</sup>	Provident Spaces	2nd year <sup>n</sup>	0	3rd year <sup>o</sup>	0

### Table 3. Crop usage rates<sup>p</sup>

lb/bu or lb/ton	N	P <sub>2</sub> O <sub>5</sub>
Corn	1.2 🔫	0.375
Soybean	3.8	0.8
Alfalfa	50	12.5
Other crop 👻	0	0
,		

Page 2

\*Use blank space above to add crop not listed.

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

	E 4. Calculations for face based of the grown) <sup>9</sup>	<u>`</u>	Com 👻	Com 🔻	Soybean 👻	Select Crop 👻
1	Applying Manure For (crop to be grown) <sup>9</sup>		100	102	59.9	
2	Optimum Crop Yield <sup>h</sup>	bu or ton/acre	193	193		0.0
3	P2O5 removed with crop by harvest <sup>r</sup>	lb/acre	72.4	72.4	47.9	0.0
	Crop N utilization <sup>s</sup>	ib/acre	232	232	228	0
	Legume N credit <sup>t</sup>	lb/acre	50.00	0	0	0
	Commercial N planned <sup>u</sup>	lb/acre	85	135	0	0
	Manure N carryover credit <sup>v</sup>	lb/acre	0	0	0	0
6	Remaining crop N need <sup>w</sup>	lb/acre	97	97	228	0
7	Manure rate to supply remaining N <sup>x</sup>	gal or ton/acre	8600	8600	20200	0
8	$P_2O_5$ applied with N-based rate <sup>y</sup>	lb/acre	103	103	242	0

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

Table 5. Calculations for rate based on phosphorm				_	
9 Commercial P <sub>2</sub> O <sub>5</sub> planned <sup>z</sup>	lb/acre	0	0	0	0
10 Manure rate to supply P removal <sup>8a</sup>	gal or ton/acre	6000	6000	4000	0
11     Manure rate for P based plan	gal or ton/acre	8000	8000	0	0
12 Manure N applied with P-based plan <sup>cc</sup>	lb/acre	90	90	0	0

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

Table V. Application Table 1					
13 Planned manure application rate <sup>dd</sup>	gal or ton/acre	8600	8600	0	0

When applicable, manure application rates must be based on the P index value as follows:

(0-2) N-based manure management.

(>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

<sup>(&</sup>gt;2-5) N-based manure management but P application rate cannot exceed two times the P removal rate of the crop schedule.

Year by Year Manure Management Plan Summary **Manure Management Plan Form** 

Page 3

Instructions: Complete this form for each of the next four growing seasons, to demonstrate sufficient land base to apply manure over multiple crop years. If this page is <u>identical</u> for multiple years (e.g. every other year), submit only once for the identical years, and indicate which years the form represents. Footnotes are given on page 6.

**MANO** 

Crop year(s):	2013									
	7	2	4	۰ ر	9	<i>l</i> .	×	9	10	
	Field Location			Acres	Own rent.			Planned.	Planned Application	Soil Test
Field	$\frac{1/4 \text{ of the}}{100000000000000000000000000000000000$	Mgt	щ	receiving	agreement (include	P index	HEL	;	1.0° 1 1 kk	for P <sup>II</sup> (Yes
Designation <sup>ee</sup>		Id "	Crop	manure <sup>se</sup>	length of agreement) m	value"		gal/acre	gal/tield	0r N0)
	SW 1/4 Sec 21 T79N R4E									
Home	Lincoln Twp Scott County	S	С С	135	Owned	2.20	У	3900	527,000	Yes
	NE 1/4 Sec 20 T79N R4E									
Claussen-N	Lincoln Twp Scott County		Corn2	122	Rented	2.19	Ч	0	0	Yes
	SE 1/4 of the NE 1/4 Sec 20 T79N R4E		-							
Claussen-S	Lincoln Twp Scott County	F	Corn2	29	Rented	3.46	Y	3900	113,000	Yes
	S 1/2 of the NW 1/4 Sec 28 T79N R4E									
Kyles	Lincoln Twp Scott County	S	Com2	84	Rented	1.81	Y	8500	714,000	Yes
	E 1/2 of the NE 1/4 Sec 16 T79N R4E									
Olsen	Lincoln Twp Scott County		Soybeans	73	Rented	3.11	¥	0	0	Yes
	N 1/2 of NE 1/4 and E 1/2 of NW 1/4 Sec 17									
Elliott	T79N R4E Lincoln Twp Scott County		Soybeans	158	Rented	0.73	Ч	0	0	Yes
	S 1/2 of SW 1/4 Sec 16 and NW 1/4 Sec 21 T79N									
Avery S	R4E Lincoln Twp Scott County	S	Corn1	230	Rented	1.11	Y	8500	1,955,000	Yes
								0	0	
	N 1/2 of the SE 1/4 Sec 20 T79N R4E									
Geottsch	Lincoln Twp Scott County	ы	Com1	59	Rented	1.92	У	3400	201,000	Yes
								-		
	Total acres available for manure annication	re an	nlication	890	Total galle	ons that	could	oe applied	Total gallons that could be applied 3,510,000	
	memory for Airphite as going ind t	1	Trees and the second							-

**Manure Management Plan Form** 

Page 3

Year by Year Manure Management Plan Summary

Instructions: Complete this form for each of the next four growing seasons, to demonstrate sufficient land base to apply manure over multiple crop years. If this page is <u>identical</u> for multiple years (e.g. every other year), submit only once for the identical years, and indicate which years the form represents. Footnotes are given on page 6.

2014 Crop year(s):

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		Ī	-	-	4	-	×	-	0	
	7	n	t	ſ		-	,	1		Correct
	Field Location	<u> </u>		Acres	Own, rent,		6	Planned /	Planned Application	Soil Test
Field		Mgt	Planned	receiving	agreement (include	P index	HEL		1/2 11 Kk	for P <sup>il</sup> (Yes
Designation <sup>ee</sup>		Id "	Crop	manure <sup>ss</sup>	length of agreement)	value -	(X/N) <sup>r</sup>	gal/acre	gal/neid	OI NU)
	SW 1/4 Sec 21 T79N R4E						 1			
Home	Lincoln Twp Scott County	s	ပုပ	135	Owned	2.17	×	8500	1,148,000	Yes
	NE 1/4 Sec 20 T79N R4E									
Claussen-N	Lincoln Twp Scott County		Soybeans	122	Rented	2.17	≻	0	0	Yes
	SE 1/4 of the NE 1/4 Sec 20 T79N R4E									1
Claussen-S	Lincoln Twp Scott County		Soybeans	29	Rented	3.34	≻	0	0	Yes
	S 1/2 of the NW 1/4 Sec 28 T79N R4E									
Kyles	Lincoln Twp Scott County		Soybeans	84	Rented	1.75	Ч	0	0	Yes
	E 1/2 of the NE 1/4 Sec 16 T79N R4E			į						
Olsen	Lincoln Twp Scott County	F	Corn1	73	Rented	3.08	۲	3400	248,000	Yes
	N 1/2 of NE 1/4 and E 1/2 of NW 1/4 Sec 17							1		, ,
Elliott	T79N R4E Lincoln Twp Scott County	F	Corn1	158	Rented	0.66	Υ	3400	537,000	Yes
	4		c t	000	Danfod	106	>	8500	1 055 000	Yes
Avery S	R4E Lincoln 1 wp Scott County	N	Cornz	230	Kenteu	1.UU	-	0000	000°776T	60 T
									0	
	N 1/2 of the SE 1/4 Sec 20 T79N R4E									;
Geottsch	Lincoln Twp Scott County	щ	Corn2	59	Rented	2.68	Я	3400	201,000	Yes
										: :
	Total acres available for manui	re an	re application	890	Total gallo	ns that	could	be applied	Total gallons that could be applied 4,089,000	
	WITH TAT ATAMITMAN AN AATAMINA			1	2			•		

Manure Management Plan Form

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Page 3

Year by Year Manure Management Plan Summary

Instructions: Complete this form for each of the next four growing seasons, to demonstrate sufficient land base to apply manure over multiple crop years. If this page is <u>identical</u> for multiple years (e.g. every other year), submit only once for the identical years, and indicate which years the form represents. Footnotes are given on page 6.

Crop year(s): 2015

tal un t dava					4		8	Ģ		
-	7	n	4	ŋ	0	_	•	~	10	11
	Field Location			Acres	Own. rent.			Planned	Planned Application	Soil Test
Field		Mgt	Planned	receiving	agreement (include	P index	HEL			for P <sup>11</sup> (Yes
Designation "	Townsip Name County Name	Id <sup>ff</sup>	Crop	manure <sup>gg</sup>	length of agreement) hh	value <sup>ii</sup>	(Y/N) <sup>ii</sup>	gal/acre	gal/field <sup>kk</sup>	or No)
	SW 1/4 Sec 21 T79N R4E									
Home	Lincoln Twp Scott County		c-c	135	Owned	2.17	Υ	0	0	Yes
	NE 1/4 Sec 20 T79N R4E									
Claussen-N	Lincoln Twp Scott County	S	Corn1	122	Rented	2.17	Y	8500	1,037,000	Yes
	SE 1/4 of the NE 1/4 Sec 20 T79N R4E									
Claussen-S	Lincoln Twp Scott County	щ	Coml	29	Rented	3.34	Y	3400	000'66	Yes
	S 1/2 of the NW 1/4 Sec 28 T79N R4E									
Kyles	Lincoln Twp Scott County	S	Corn1	84	Rented	1.75	Υ	8500	714,000	Yes
	E 1/2 of the NE 1/4 Sec 16 T79N R4E									
Olsen	Lincoln Twp Scott County	F	Corn2	73	Rented	3.08	Υ	3900	285,000	Yes
	N 1/2 of NE 1/4 and E 1/2 of NW 1/4 Sec 17									
Elliott	T79N R4E Lincoln Twp Scott County	ц	Corn2	158	Rented	0.66	Υ	3900	616,000	Yes
	/4									
Avery S	R4E Lincoln Twp Scott County		Soybeans	230	Rented	1.06	Y	0	0	Yes
			•						0	
	N 1/2 of the SE 1/4 Sec 20 T79N R4E									
Geottsch	Lincoln Twp Scott County		Soybeans	59	Rented	2.68	Υ	0	0	Yes
	Total acres available for manure application	re apl	olication	068	Total gallons that could be applied	ns that	could	be applied	2,751,000	
			-							

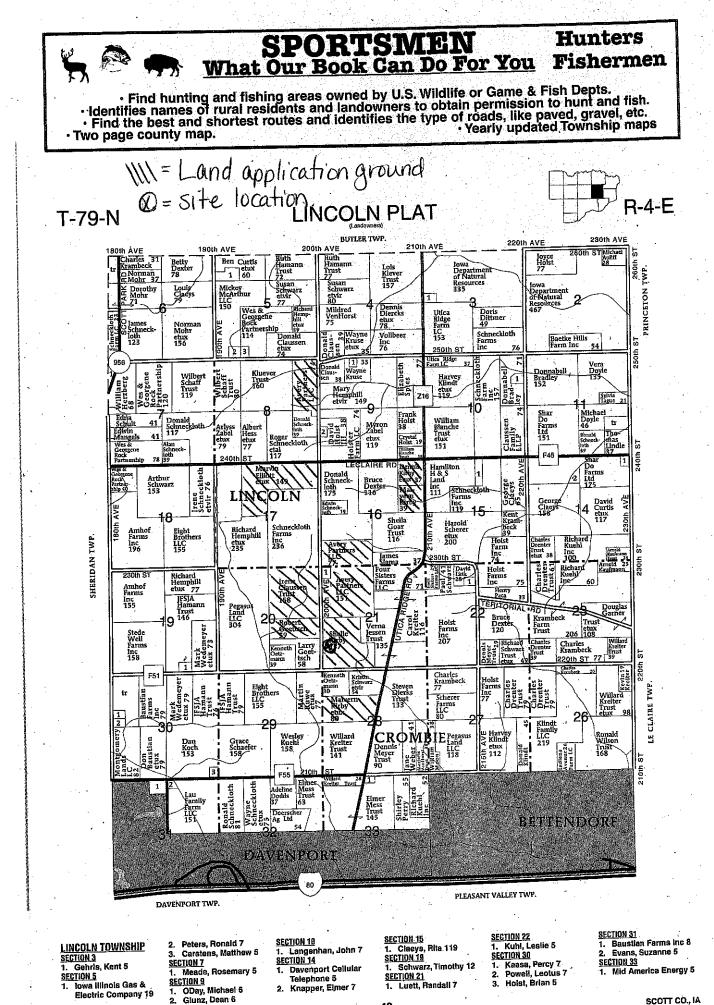
Manure Management Plan Form

Year by Year Manure Management Plan Summary

Page 3 Instructions: Complete this form for each of the next four growing seasons, to demonstrate sufficient land base to apply manure over multiple crop years. If this page is <u>identical</u> for multiple years (e.g. every other year), submit only once for the identical years, and indicate which years the form represents. Footnotes are given on page 6.

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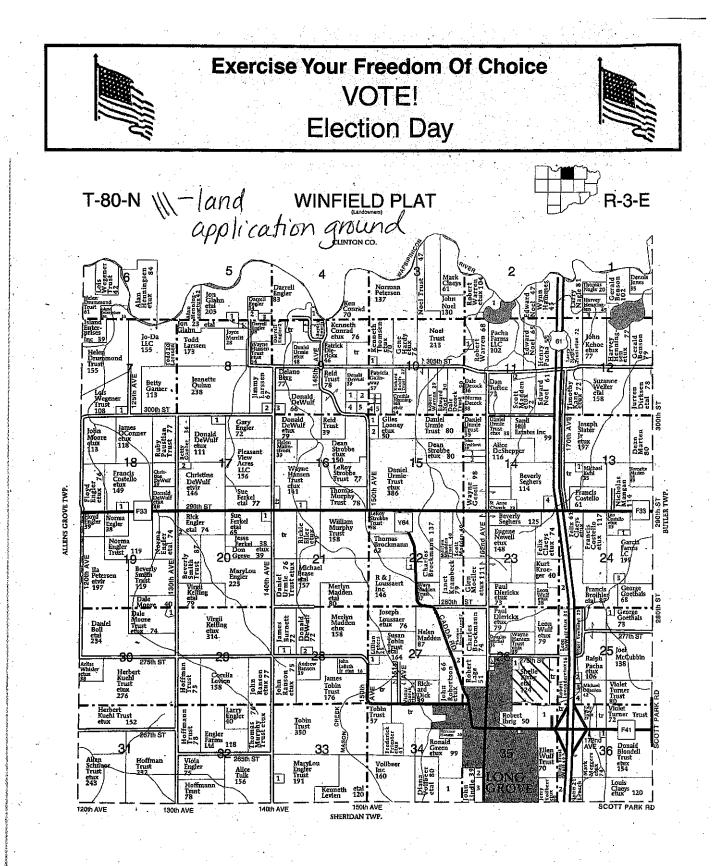
Crop year(s):	2016									
	2	3	4	ĉ	9	/.	8	А	10	II I
	Field Location			Acres	Own. rent.			Planned.	Planned Application	Soil Test
Field Designation <sup>ee</sup>	1/4 of the 1/4 Sec T R Townsip Name County Name	Mgt Id ff	Planned Crop	receiving manure <sup>ss</sup>	agreement (include length of agreement) <sup>ith</sup>	P index value <sup>ii</sup>	HEL (V/N) <sup>11</sup>	gal/acre	gal/field <sup>kk</sup>	for P <sup>ll</sup> (Yes or No)
Home	SW 1/4 Sec 21 T79N R4E Lincoln Twn Scott County		0-0 0-0	135	Owned		~	C	0	Yes
	NE 1/4 Sec 20 T79N R4E	F		5	Protect C	г Г С	>	0000	000 911V	Vac
Claussen-IN	SE 1/4 of the NE 1/4 Sec 20 T79N R4E	4	CUIIIZ	771	Velica	71.7	-	00000	000°07	5 T
Claussen-S	Lincoln Twp Scott County	F	Corn2	29	Rented	3.34	Υ	3900	113,000	Yes
	S 1/2 of the NW 1/4 Sec 28 T79N R4E	ţ	(	Ċ	£	[	,			W
Kyles	E 1/2 of the NF 1/4 Sec 16 T/90 R4F	<b>1</b>	Com	\$4	Kented	c/.1	×	0065	220,000	IGS
Olsen	Lincoln Twp Scott County		Soybeans	73	Rented	3.08	Υ	0	0	Yes
	$\geq$									
Elliott	T79N R4E Lincoln Twp Scott County		Soybeans	158	Rented	0.66	Υ	0	0	Yes
Avery S	S 1/2 of SW 1/4 Sec 16 and NW 1/4 Sec 21 T79N R4E Lincoln Twp Scott County	S	Corn1	230	Rented	1.06	Y	8500	1,955,000	Yes
									0	
	N 1/2 of the SE 1/4 Sec 20 T79N R4E	, 		Ę	,		;	0100	000	
Geottsch	Lincoin 1 wp scott county	×	Comi	<i>к</i> с	Kentea	202	X	0046	201 <b>.</b> 000	Yes
		ļ								
	Total acres available for manure application	re ap	plication	890	Total gallons that could be applied	ns that	could	oe applied	3,073,000	



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42



WINFIELD TOWNSHIP SECTION 1 1. Kehoe, John 10

 1. Kehoe, John 10
 2.

 SECTION 2
 SE

 1. Pacha Farms LLC 39
 1.

 SECTION 4
 2.

 1. Swinderman, Gene 5
 3.

 SECTION 5
 4.

 1. Harrison, Delmar 11
 5.

 2. Larssen, Todd 10
 SE

 3. Page, Ken 6
 1.

 SECTION 7
 2.

 1. Conklin, Arthur 9
 3.

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Harrison, Delmar 5
 Regan, Patrick 10
 <u>SECTION 9</u>
 Jones, Dale 10
 Goettson, Howard 10
 Krakllo Trust, Raye 10
 Krakllo Trust, Raye 10
 Koodferd Trust 12
 Caratens, Tracy 10
 <u>SECTION 10</u>
 Pethoud, Steven 5
 Fossum, Steven 5
 Howes, Dan 5
 Schwarz, Bruce 5

SECTION 8

<u>SECTION 11</u> 1. Noel Trust 10 2. Geske, Lyle 7 <u>SECTION 13</u> 1. Schipper, Bradly 5 <u>SECTION 14</u> 1. Strobbe, Dean 10 2. VenHorst, John 10 4. Paulsen, Daniel 13 <u>SECTION 15</u> 1. Young, Kenneth 10 2. Urnle, Daniel 17 <u>SECTION 16</u> 1. Kilburg, Brent 6 SECTION 17 1. Baum, Lawrence 7 2. Enslow, Donald 7 SECTION 18 1. OBrien, Robert 9 SECTION 20 1. Ferkel, Jesse 7 2. Marti, Layne 5 SECTION 22 1. Loussaert, John 9 SECTION 24 1. Torsney, Michael 6 2. Kroeger, Kurt 14 3. Kroeger, Clark 5

50

SECTION 25 1. Broinler, Francis 5 2. DeWulf, Shirley 7 3. State of lowa 13 4. Prochaske, Joseph 8 <u>SECTION 26</u> 1. Saladino, Anthony 6 <u>SECTION 27</u> 1. Nixson, George 9 2. Lage, Robert 12 <u>SECTION 28</u> 1. Arpy, Alan 5 2. Inrig, Robert 5 <u>SECTION 30</u> 1. Moore, Patrick 5

### SECTION 33 1. McCoy, Greg 5 SECTION 34 1. Quad City Salvage Auction Inc 31 SECTION 35 1. Sorenson, Stephen 7

- Quad City Salvage Auction Inc 9
   Long Grove Properties
- LC 24
- SECTION 36 1. Martin, Jon 5
- 2. Volibeer, Jerry 8

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## **lowa Phosphorus Index**

Credits:

Iowa State University USDA National Soil Tiith Laboratory USDA Natural Resource Conservation Service

Overall	P Index	2.20 2.19 3.46 1.81	0.73 1.11 3.11 3.11		
11 		0.08 0.08 0.08 0.08	0.08 0.03 0.03 0.03		
Tile / Subsurface Recharge	STP Factor =	1.00 0.08 1.00 0.08 1.00 0.08 1.00 0.08	0.08 0.08 0.08 0.08		
Tile / Su	Flow Factor x	4,00 1,00 1,00 1,00	1.00 1.00 1.00 1.00		
+	Runoff )= Pl	0.44 0.41 0.39 0.32	0.46 0.38 0.27 0.30		
off	P App Factor		0.04 0.04 0.04		
Runoff	STP Factor +	0.27 0.25 0.26 0.19	0.29 0.23 0.15		
	RCN Factor ×	1.40 1.40 1.40	1.40 1.40 1.40 1.40		
+	Erosion PI	1.68 1.70 2.99 1.41	0.19 0.65 1.57 2.73		
	STP Eactor	0.85 0.87 0.86 0.86	0.90 0.85 0.78 0.80		
	Enrichment	X         X	1.10 1.10 1.10 1.10		
Erreion	Buffer	1.00 1.00 1.00 1.00	1.00 1.00 1.00		
		0.44 × 0.44 × 0.44 × 0.44	0.40 0.41 0.49 0.48		
	Sediment	Erosion         X         Trap Factor         X         V         Pactor           3.90         1.00         0.44         1.00           3.70         1.00         0.48         1.00           5.70         1.00         0.56         1.00           5.70         1.00         0.56         1.00           3.70         1.00         0.53         1.00	. 1. 00 1. 00 1. 00 1. 00 1. 00		
	Gross	Erosion X 3.90 3.70 5.70 3.70	0.47 1.70 3.70 6.50		
	Field Number	Home – Claussen 1N – Claussen 2 – Kyles –	Elliott - Avery S Goettsch Olsen		

-

### TABLE 1. Manure Analysis Kirby Farms Inc.

		Total N	P2O5	K2O
2011	F1	15.4	17.5	7.9
· · · · · · · · ·	NG 1	16.3	6.2	10.7
····	NG 2	19.3	23.3	10.6
	SG 1	8.2	2.9	7.1
	SG 2	14.8	11.5	9.4
AVERAGE		14.8	12.3	9.1
	1-3	51.6	31.1	30.4
	3-1	58.3	29.5	32.9
	3-2	58.5	34.1	33.6
	3-3	62.5	29.7	35.5
	1-2	47.9	23	29.9
	1-1	45.5	6.9	8.8
AVERAGE		54.1	25.7	28.5



Info: Dennis Kirby - Avery N Farm, Olsen Farm

File: profiles/Scott County

### inputs:

Soil: 120D2 Tama silty clay loam, 9 to 14 percent slopes, moderately eroded/Tama silty clay loam moderately eroded 100% Slope length (horiz): 150 ft Avg. slope steepness: 12 % Location: Iowa/Scott County

Management	Vecetation	Yield	Yield (# of
		units	units)
CMZ 04\c. Other Local Mgt Records\CCBcorn grain;NT, Manure, corn grain; FC, st pt,		- - - -	170.00
anhyd, fcult, soybean, nr, NT single z4		pushels	1/8.00
CMZ 04/c.Other Local Mgt Records/CCBcorn grain;NT, Manure, corn grain; FC, st pt,			170.00
anhyd, fcult, soybean, nr, NT single z4		pusnels	1/8.00
CMZ 04/c. Other Local Mgt Records/CCBcorn grain;NT, Manure, corn grain; FC, st pt,	Soybean, mw 15 - 20		10,000
anhyd, fcult, soybean, nr, NT single z4	in rows	D	40.000

Contouring: b. absolute row grade 5 percent Adjust res. burial level: Normal res. burial

Soil loss for cons. plan: 6.5 t/ac/yr Sediment delivery: 6.5 t/ac/yr Outputs: T value: 5.0 t/ac/yr

lin rows	Date	Operation	Vegetation	Surf. res. cov. after op, %
Planter, double disk opnr w/fluted coulter       Corn, grain         Harvest, killing crop 50pct standing stubble       Corn, grain         Manure injector, liquid low disturb.30 inch       Corn, grain         Manure injector, liquid low disturb.30 inch       Corn, grain         Chisel, st. pt.       Chisel, st. pt.         Cultivator, field 6-12 in sweeps       Corn, grain         Planter, double disk opnr       Corn, grain         Planter, double disk opnr       Corn, grain         Harvest, killing crop 50pct standing stubble       Soybean, mw 15 - 20 in rows         Harvest, killing crop 20pct standing stubble       Soybean, mw 15 - 20 in rows	11/20/0	Manure injector, liquid low disturb.30 inch		81
Harvest, killing crop 50pct standing stubble       Harvest, killing crop 50pct standing stubble         Manure injector, liquid low disturb.30 inch       Manure         Chisel, st. pt.       Chisel, st. pt.         Cultivator, field 6-12 in sweeps       Corn, grain         Harvest, killing crop 50pct standing stubble       Corn, grain         Planter, double disk opnr w/fluted coulter, 15 inch row spacing       Soybean, mw 15 - 20 in rows         Harvest, killing crop 20pct standing stubble       Soybean, mw 15 - 20 in rows	5/10/1	Planter, double disk opnr w/fluted coulter	Corn, grain	61
Manure injector, liquid low disturb.30 inch       Manure injector, liquid low disturb.30 inch         Chisel, st. pt.       Chisel, st. pt.         Cultivator, field 6-12 in sweeps       Corn, grain         Planter, double disk opnr       Corn, grain         Planter, double disk opnr w/fluted coulter, 15 inch row spacing       Soybean, mw 15 - 20 in rows         Harvest, killing crop 20pct standing stubble       Event methods	10/20/1	Harvest, killing crop 50pct standing stubble		85
Chisel, st. pt.         Cultivator, field 6-12 in sweeps         Cultivator, field 6-12 in sweeps       Corn, grain         planter, double disk opnr       Corn, grain         Harvest, killing crop 50pct standing stubble       Corn, grain         Planter, double disk opnr w/fluted coulter, 15 inch row spacing       Soybean, mw 15 - 20 in rows         Harvest, killing crop 20pct standing stubble       Corn, grain	11/10/1	Manure injector, liquid low disturb.30 inch		91
Cultivator, field 6-12 in sweeps       Cultivator, field 6-12 in sweeps         planter, double disk opnr       Corn, grain         Harvest, killing crop 50pct standing stubble       Corn, grain         Planter, double disk opnr w/fluted coulter, 15 inch row spacing       Soybean, mw 15 - 20 in rows         Harvest, killing crop 20pct standing stubble       Corn, grain	11/11/1	Chisel, st. pt.		67
planter, double disk opnr         Corn, grain           Harvest, killing crop 50pct standing stubble         Each row spacing           Planter, double disk opnr w/fluted coulter, 15 inch row spacing         Soybean, mw 15 - 20 in rows           Harvest, killing crop 20pct standing stubble         Each row spacing	5/10/2	Cultivator, field 6-12 in sweeps		56
Harvest, killing crop 50pct standing stubble         Harvest, killing crop 50pct standing stubble           Planter, double disk opnr w/fluted coulter, 15 inch row spacing         Soybean, mw 15 - 20 in rows           Harvest, killing crop 20pct standing stubble         Soybean, mw 15 - 20 in rows	5/10/2	planter, double disk opnr	Corn, grain	56
Planter, double disk opnr w/fluted coulter, 15 inch row spacing Soybean, mw 15 - 20 in rows Harvest, killing crop 20pct standing stubble	10/20/2	Harvest, killing crop 50pct standing stubble		86
Harvest, killir	5/15/3	Planter, double disk opnr w/fluted coulter, 15 inch row spacing	Soybean, mw 15 - 20 in rows	84
	10/10/3	Harvest, killing crop 20pct standing stubble		90



## Info: Dennis Kirby - Home

File: profiles/Scott County

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

Vegetation	hushels
	Corn orain
Management	CMZ 04/c. Other Local Mgt Records/CCBcorn grain;NT, Manure, corn grain; FC, st pt,

Yield (# of units)	192.00	192.00	52.000
Yield units	bushels	bushels	nq
Vegetation	Corn, grain	Corn, grain	Soybean, mw 15 - 20 in rows
Management	CMZ 04\c.Other Local Mgt Records\CCBcorn grain;NT, Manure, corn grain; FC, st pt, anhvd. fcult.sovbean. nr. NT single z4	CMZ 04/c.Other Local Mgt Records/CCBcorn grain;NT, Manure, corn grain; FC, st pt, anhvd fcult sovbean, nr. NT single z4	CMZ 04\c.Other Local Mgt Records\CCBcorn grain;NT, Manure, corn grain; FC, st pt, anhyd, fcult, soybean, nr, NT single z4

Contouring: a. rows up-and-down hill Adjust res. burial level: Normal res. burial

Outputs: T value: 5.0 t/ac/yr Soil loss for cons. plan: 3.9 t/ac/yr Sediment delivery: 3.9 t/ac/yr

Date	Operation	Vegetation	Surf. res. cov. after op, %
11/20/0	Manure injector liquid low disturb.30 inch		83
5/10/1	Planter double disk opnr w/fluted coulter	Corn, grain	63
10/20/1	villi v		87
11/10/1	Manure injector. liquid low disturb.30 inch		93
11/11/1	Chisel st. pt.		70
5/10/2	Cultivator field 6-12 in sweeps		59
5/10/2	nlanter double disk opnr	Corn, grain	59
10/0/01	Harvest killing cron 50nct standing stubble		88
E11E13	Dianter double disk comr wiftinged coulter 15 inch row spacing Sovbean, mw 15 - 20 in rows	Sovbean, mw 15 - 20 in rows	86
0,010	Hanket killing cron 20nct standing stubble		91
10/10/2			



Info: Dennis Kirby - Avery S

File: profiles/Scott County

Inputs:

Location: Iowa\Scott County Soil: 120B Tama silty clay loam, 2 to 5 percent slopes\Tama silty clay loam 100% Slope length (horiz): 200 ft Avg. slope steepness: 4.0 %

Management	Vegetation	Yıeld units	Yield (# of units)
CMZ 04/c.Other Local Mgt Records/CCBcorn grain;NT, Manure, corn grain; FC, st pt, anhyd, fcult, soybean, nr, NT single z4	Corn, grain	busheis	215.00
CMZ 04/c.Other Local Mgt Records\CCBcorn grain;NT, Manure, corn grain; FC, st pt, anhyd, fcult, soybean, nr, NT single z4	Corn, grain	bushels	215.00
CMZ 04\c.Other Local Mgt Records\CCBcorn grain;NT, Manure, corn grain; FC, st pt, anhyd, fcult, soybean, nr, NT single z4	Soybean, mw 15 - 20 in rows	nq	58.000

Contouring: a rows up-and-down hill Adjust res. burial level: Normal res. burial

Outputs: T value: 5.0 t/ac/yr Soil loss for cons. plan: 1.7 t/ac/yr Sediment delivery: 1.7 t/ac/yr

Operation Manure injector liquid low disturb 30 inch	Vegetation	Surf. res. cov. after op, % 86
Planter, double disk opnr w/fluted coulter	Corn, grain	67
Harvest, killing crop 50pct standing stubble		06
Manure injector, liquid low disturb.30 inch		94
Chisel, st. pt.		74
Cultivator, field 6-12 in sweeps		63
planter, double disk opnr	Corn, grain	63
Harvest, killing crop 50pct standing stubble		91
Planter, double disk opnr w/fluted coulter, 15 inch row spacing Soybean, mw 15 - 20 in rows	oybean, mw 15 - 20 in rows	89
Harvest killing crop 20pct standing stubble		93



## Info: Dennis Kirby - Elliots

File: profiles/Scott County

Inputs: Location: Iowa\Scott County Soil: 119 Muscatine silty clay loam, 0 to 2 percent slopes\Muscatine silty clay loam 95% Slope length (horiz): 200 ft Avg. slope steepness: 1.0 %

Management	Vegetation	y ieia units	y leia (# or units)	
CMZ 04\c.Other Local Mgt Records\CCBcorn grain;NT, Manure, corn grain; FC, st pt, anhvd. fcult. sovbean. nr. NT single z4	Corn, grain	bushels	222.00	
CMZ 04\c.Other Local Mgt Records\CCBcorn grain;NT, Manure, corn grain; FC, st pt, anhvd. fcult. sovbean. nr. NT single z4	Corn, grain	bushels	222.00	
CMZ 04\c.Other Local Mgt Records\CCBcorn grain;NT, Manure, corn grain; FC, st pt, anhvd fcult sovbean. nr. NT single z4	Soybean, mw 15 - 20 in rows	nq	60.000	

Contouring: a. rows up-and-down hill Adjust res. burial level: Normal res. burial

Outputs: T value: 5.0 t/ac/yr Soil loss for cons. plan: 0.47 t/ac/yr Sodiment delivery: 0.47 t/ac/yr

												_	
	Surf. res. cov. after op, %	86	68	06	95	75	64	64	91	06	94		
	Vegetation		Corn, grain					Corn, grain		Soybean, mw 15 - 20 in rows			
Sediment delivery: 0.47 t/ac/yr	Operation	Manure injector, liquid low disturb.30 inch	Planter, double disk opnr w/fluted coulter	Harvest, killing crop 50pct standing stubble	Manure injector. liquid low disturb.30 inch	Chisel. st. pt.	Cultivator, field 6-12 in sweeps	planter, double disk opnr	Harvest, killing crop 50pct standing stubble	Planter, double disk opnr w/fluted coulter, 15 inch row spacing   Soybean, mw 15 - 20 in rows	Harvest, killing crop 20pct standing stubble		
Sediment	Date	11/20/0	5/10/1	10/20/1	11/10/1	11/11/1	5/10/2	5/10/2	10/20/2	5/15/3	10/10/3		



Info: Dennis Kirby - Claussen-2 and Geottsch

File: profiles/Scott County

Inputs:

Location: lowa\Scott County Soil: 20D2 Killduff silty clay loam, 9 to 14 percent slopes, moderately eroded\Killduff silty clay loam moderately eroded 100% Slope length (horiz): 97 ft

Avg. slope steepness: 12 %

Management	Vegetation	Yield units	Yield (# of units)
CMZ 04\c.Other Local Mgt Records\CCBcorn grain;NT, Manure, corn grain; FC, st pt, anhyd, fcult, soybean, nr, NT single z4	Corn, grain	bushels	172.00
CMZ 04\c.Other Local Mgt Records\CCBcorn grain;NT, Manure, corn grain; FC, st pt, anhyd, fcult, soybean, nr, NT single z4	Corn, grain	bushels	172.00
CMZ 04\c.Other Local Mgt Records\CCBcorn grain;NT, Manure, corn grain; FC, st pt, anhyd, fcuit, soybean, nr, NT single z4	Soybean, mw 15 - 20 in rows	bu	46.000

Contouring: b. absolute row grade 5 percent Adjust res. burial level: Normal res. burial

Outputs: T value: 5.0 t/ac/yr Soil loss for cons. plan: 5.7 t/ac/yr Sediment delivery: 5.7 t/ac/yr Surf. cover after planting: -- %

	Operation	Vegetation	Surf. res. cov. after op, %
Manure inject	ctor, liquid low disturb 30 inch		80
Planter, doul	uble disk opnr w/fluted coulter	Corn, grain	59
Harvest, killin			84
Manure injecto	ctor, liquid low disturb.30 inch		90
	Chisel, st. pt.		66
Cultivat	ator, field 6-12 in sweeps		55
pla	planter, double disk opnr	Corn, grain	55
Harvest, killin	ng crop 50pct standing stubble		85
Planter, double disk opt	pnr w/fluted coulter, 15 inch row spacing Soybean, mw 15 - 20 in rows	Soybean, mw 15 - 20 in rows	83
Harvest. killin	ng crop 20pct standing stubble		89



## Info: Dennis Kirby - Claussen-1, Kyles,

File: profiles/Scott County

### Inputs:

Soil: 20C2 Killduff silty clay loam, 5 to 9 percent slopes, moderately eroded/Killduff silty clay loam moderately eroded 100% Location: Iowa\Scott County Slope length (horiz): 150 ft

Avg. slope steepness: 7.0 %

CMZ 04\c.Other Local Mgt Records\CCBcorn grain;NT, Manure, corn grain; FC, st pt, anhyd, fcult, soybean, nr, NT single z4
CMZ 04\c.Other Local Mgt Records\CCBcorn grain;NT, Manure, corn grain; FC, st pt, anhyd, fcult, soybean, nr, NT single z4
CMZ 04/c.Other Local Mgt Records\CCBcorn grain;NT, Manure, corn grain; FC, st pt, anhyd, fcult, soybean, nr, NT single z4

Contouring: a. rows up-and-down hill Adjust res. burial level: Normal res. burial

Soil loss for cons, plan: 3.7 t/ac/yr Sediment delivery: 3.7 t/ac/yr Surf. cover after planting: --% Outputs: T value: 5.0 t/ac/yr

Date	Operation	Vegetation	Surf. res. cov. after op, %
11/20/0	Manure injector, liquid low disturb 30 inch		82
5/10/1	Planter, double disk opnr w/fluted coulter	Corn, grain	62
10/20/1	Harvest, killing crop 50pct standing stubble		86
11/10/1	Manure injector, liquid low disturb.30 inch		92
11/11/1	Chisel, st. pt.		69
5/10/2	Cultivator, field 6-12 in sweeps		58
5/10/2	planter, double disk opnr	Corn, grain	58
10/20/2	Harvest, killing crop 50pct standing stubble		87
5/15/3	Planter, double disk opnr w/fluted coulter, 15 inch row spacing   Soybean, mw 15 - 20 in rows	Soybean, mw 15 - 20 in rows	85
10/10/3	Harvest, killing crop 20pct standing stubble		91

**Report Number** 



11-340-5051

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	Lab Number: Description:	10053822 MANURE ANALYSIS	
22293 200TH AVE DAVENPORT IA 52807	Sample Id: F1		
Report Date: Dec 06, 2011 Received Date: Dec 02, 2011 Sampled Date: Dec 01, 2011 P.O. Number: Parameters	Account Nun Analysis as Received	nber: 26759 Nutrients bs/1000 gals	Est. First Year Availability Ibs/1000 gals 10
Ammonium Nitrogen(N) Organic Nitrogen(N) Total Nitrogen(N)	0.12 % 0.06 % 0.18 %	5.5 15.4	2 12
Phosphorus(P2O5) Potassium(K2O)	0.21 % 0.09 %	17.5 7.9	12 7
Sulfur(S) Calcium(Ca) Magnesium(Mg) Sodium(Na) Copper(Cu) Iron(Fe) Manganese(Mn) Zinc(Zn)	0.02 % 0.07 % 0.04 % 0.03 % 6 ppm 103 ppm 16 ppm 48 ppm	1.8 5.6 3.6 2.2 0.05 0.87 0.14 0.41	1 4 3 2 0.04 0.61 0.09 0.28
Moisture Total Solids Total Salts	99.0 % 1.0 %	84.5 29.2	· · · ·
рH	8.4		

First year availability of nitrogen is calculated based on preplant application with incorporation. Nitrogen available from previous years application not

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulation. These regulations vary from state to state.

Rob Ferris Client Service Representative rob@midwestlabs.com (402)829-9871

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11-340-5054

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	Lab Number: 10053825 Description: MANURE ANALYSIS			
22293 200TH AVE DAVENPORT IA 52807	Sample Id:	NG 1	NG 1	
Report Date: Dec 06, 2011 Received Date: Dec 02, 2011	Account N	umber: 26759		
Received Date: Dec 02, 2011 Sampled Date: Dec 01, 2011 P.O. Number: Parameters	Analysis as Received	Nutrients Ibs/1000 gals	Est. First Year Availability Ibs/1000 gals 13	
Ammonium Nitrogen(N) Organic Nitrogen(N) Total Nitrogen(N)	0.16 % 0.03 % 0.19 %	13.3 3.0 16.3	1 1 14	
Phosphorus(P2O5) Potassium(K2O)	0.07 % 0.13 %	6.2 10.7	4 10	
Sulfur(S) Calcium(Ca) Magnesium(Mg) Sodium(Na) Copper(Cu) Iron(Fe) Manganese(Mn) Zinc(Zn)	0.02 % 0.02 % 0.01 % 0.04 % 3 ppm 38 ppm 4 ppm 20 ppm	1.6 1.7 0.5 3.4 0.03 0.32 0.03 0.17	1 1 0 2 0.02 0.22 0.02 0.12	
Moisture Total Solids Total Salts	99.4 % 0.6 %	50.7 29.6		
рH	8.4			

First year availability of nitrogen is calculated based on preplant application with incorporation. Nitrogen available from previous years application not

considered. Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulation. These regulations vary from state to state.

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11-340-5055

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	Lab Number: Description:	10053826 MANURE ANALYSIS
22293 200TH AVE DAVENPORT IA 52807	Sample Id:	NG 2

Report Date: Dec 06, 2011 Received Date: Dec 02, 2011 Sampled Date: Dec 01, 2011 P.O. Number: Account Number: 26759

P.O. Number:	Analysis	Nutrients	Availability
Parameters	as Received	lbs/1000 gals	
Ammonium Nitrogen(N)	0.17 %	14.8	15
Organic Nitrogen(N)	0.06 %	4.5	1 <mark>6</mark>
Total Nitrogen(N)	0.23 %	19.3	
Phosphorus(P2O5)	0.28 %	23.3	16
Potassium(K2O)	0.13 %	10.6	10
Sulfur(S)	0.03 %	2.6	1
Calcium(Ca)	0.08 %	7.1	5
Magnesium(Mg)	0.06 %	4.9	3
Sodium(Na)	0.04 %	3.2	2
Copper(Cu)	8 ppm	0.07	0.05
Iron(Fe)	141 ppm	1.19	0.83
Manganese(Mn)	19 ppm	0.16	0.11
Zinc(Zn)	69 ppm	0.58	0.41
Moisture Total Solids Total Salts	98.7 % 1.3 %	109.8 40.6	
рH	8.6		

First year availability of nitrogen is calculated based on preplant application with incorporation. Nitrogen available from previous years application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulation. These regulations vary from state to state.

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11-340-5056

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KIRBY FARMS	Lab Numb Description		LYSIS
22293 200TH AVE DAVENPORT IA 52807	Sample Id:	: SG 1	
Report Date: Received Date: Sampled Date: P.O. Number: Parameters	Analysis as Received	umber: 26759 Nutrients Ibs/1000 gals	Est. First Year Availability Ibs/1000.gals 8
Ammonium Nitrogen(N) Organic Nitrogen(N) Total Nitrogen(N)	0.09 % 0.01 % 0.10 %	7.9 0.3 8.2	0 8
Phosphorus(P2O5) Potassium(K2O)	0.03 % 0.08 %	2.9 7.1	2 6
Sulfur(S) Calcium(Ca) Magnesium(Mg) Sodium(Na) Copper(Cu) Iron(Fe) Manganese(Mn) Zinc(Zn)	0.01 % 0.01 % 0.00 % 0.03 % 0 ppm 8 ppm 1 ppm 3 ppm	0.8 0.6 0.2 2.2 0.00 0.07 0.01 0.03	0 0 2 0.00 0.05 0.01 0.02
Moisture Total Solids Total Salts	99.7 % 0.3 %	25.3 18.0	
pH	8.5	Nitrogen available from	previous vears applicatio

First year availability of nitrogen is calculated based on preplant application with incorporation. Nitrogen available from previous years application not

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulation. These regulations vary from state to state.

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and be result(a), issued on this report only refiest the semple(s) submitted a For applicable test parameters, Midwest Laboratories is in compliance with NELA& requirements.



11-340-5057

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	Lab Numbe Description:		ALYSIS
22293 200TH AVE DAVENPORT IA 52807	Sample Id:	SG 2	
Report Date:Dec 06, 2011Received Date:Dec 02, 2011Sampled Date:Dec 01, 2011P.O. Number:Dec 01, 2011	Account Nu Analysis	mber: 26759 Nutrients	Est. First Year Availability
Parameters	as Received	<u>lbs/1000 gals</u> 9.9	<u>lbs/1000 gals</u> 10
Ammonium Nitrogen(N) Organic Nitrogen(N) Total Nitrogen(N)	0.12 % 0.05 % 0.17 %	4.9 14.8	10 2 12
Phosphorus(P2O5) Potassium(K2O)	0.14 % 0.11 %	11.5 9.4	8 8
Sulfur(S) Calcium(Ca) Magnesium(Mg) Sodium(Na) Copper(Cu) Iron(Fe) Manganese(Mn) Zinc(Zn)	0.02 % 0.06 % 0.03 % 0.02 % 11 ppm 84 ppm 12 ppm 73 ppm	1.4 4.7 2.6 1.8 0.09 0.71 0.10 0.62	1 3 2 1 0.07 0.50 0.07 0.43
Moisture Total Solids Total Salts	99.0 % 1.0 %	84.5 28.4	
pH	8.5		

First year availability of nitrogen is calculated based on preplant application with incorporation. Nitrogen available from previous years application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulation. These regulations vary from state to state.

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idwest

KIRBY FARMS	Lab Number Description:	: 10053831 MANURE AN/	ALYSIS
22293 200TH AVE DAVENPORT IA 52807	Sample Id:	1-3	
Report Date: Dec 06, 2011 Received Date: Dec 02, 2011	Account Nur	mber: 26759	
Sampled Date: Dec 01, 2011 P.O. Number: Parameters	Analysis as Received	Nutrients Ibs/1000 gals 34.1	Est. First Year Availability Ibs/1000 gals 34
Ammonium Nitrogen(N) Organic Nitrogen(N) Total Nitrogen(N)	0.40 % 0.21 % 0.61 %	17.5 51.6	6 40
Phosphorus(P2O5) Potassium(K2O)	0.37 % 0.36 %	31.1 30.4	22 27
Sulfur(S) Calcium(Ca) Magnesium(Mg) Sodium(Na) Copper(Cu) Iron(Fe) Manganese(Mn) Zinc(Zn)	0.06 % 0.09 % 0.09 % 0.09 % 14 ppm 107 ppm 24 ppm 62 ppm	4.9 7.3 7.5 7.5 0.12 0.90 0.20 0.52	2 5 5 0.08 0.63 0.14 0.37
Moisture Total Solids Total Salts	98.8 % 1.2 %	101.4 86.8	
рН	8.7		

First year availability of nitrogen is calculated based on preplant application with incorporation. Nitrogen available from previous years application not

considered. Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulation. These regulations vary from state to state.

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est the result (edits such and this report only reflect the analysic of the sample (s) and mitted. For applicable test, parameters, Midwest taboratories is in compliance, with NELAG requirements.

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11-340-5061

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Lab Number:

10053832

#### **KIRBY FARMS** MANURE ANALYSIS Description: 22293 200TH AVE Sample Id: 3-1 **DAVENPORT IA 52807** Account Number: 26759 Dec 06, 2011 Report Date: Dec 02, 2011 Dec 01, 2011 Received Date: Sampled Date: Est. First Year P.O. Number: Availability Nutrients Analysis lbs/1000 gals Ibs/1000 gals as Received 39 Parameters 38.8 0.46 % Ammonium Nitrogen(N) 7 19.5 0.23 % Organic Nitrogen(N) 46 58.3 0.69 %

Total Nitrogen(N)	0.03 /0		
Phosphorus(P2O5) Potassium(K2O)	0.35 % 0.39 %	29.5 32.9	21 30
Sulfur(S) Calcium(Ca) Magnesium(Mg) Sodium(Na) Copper(Cu) Iron(Fe) Manganese(Mn) Zinc(Zn)	0.06 % 0.07 % 0.09 % 0.10 % 10 ppm 103 ppm 22 ppm 62 ppm	4.9 6.0 7.2 8.2 0.08 0.87 0.19 0.52	2 4 5 6 0.06 0.61 0.13 0.37
Moisture Total Solids Total Salts	96.4 % 3.6 %	304.2 93.1	
рH	8.8		

First year availability of nitrogen is calculated based on preplant application with incorporation. Nitrogen available from previous years application not

considered. Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulation. These regulations vary from state to state.

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Page 1 of 1



11-340-5062

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	Lab Number: Description:	10053833 MANURE ANA	LYSIS
22293 200TH AVE DAVENPORT IA 52807	Sample Id:	3-2	
Report Date: Dec 06, 2011 Received Date: Dec 02, 2011 Sampled Date: Dec 01, 2011	Account Num	ber: 26759	Est. First Year
P.O. Number: Parameters		Nutrients <u>ps/1000 gals</u> 40.1	Availability Ibs/1000 gals 40
Ammonium Nitrogen(N) Organic Nitrogen(N) Total Nitrogen(N)	0.47 % 0.22 % 0.69 %	18.4 58.5	6 47
Phosphorus(P2O5) Potassium(K2O)	0.40 % 0.40 %	34.1 33.6	24 30
Sulfur(S) Calcium(Ca) Magnesium(Mg) Sodium(Na) Copper(Cu) Iron(Fe) Manganese(Mn) Zinc(Zn)	0.07 % 0.12 % 0.10 % 0.10 % 10 ppm 119 ppm 27 ppm 64 ppm	5.8 9.8 8.2 8.6 0.08 1.01 0.23 0.54	2 7 6 0.06 0.70 0.16 0.38
Moisture Total Solids Total Salts	96.0 % 4.0 %	338.0 100.3	
pH	8.7		

First year availability of nitrogen is calculated based on preplant application with incorporation. Nitrogen available from previous years application not

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulation. These regulations vary from state to state.

Rob Ferris Client Service Representative rob@midwestlabs.com (402)829-9871

a. - The result(a) Issued on this report only collections and yous of the sample(s) submitted - Fan applicable deseparameters: Midwest Laboratories is in compliance with NSLAC requirements and a submitted - Fan applicable deseparameters: Midwest Laboratories is in compliance with NSLAC requirements and a submitted - Fan applicable deseparameters: Midwest Laboratories is in compliance with NSLAC requirements and a submitted - Fan applicable deseparameters: Midwest Laboratories is in compliance with NSLAC requirements and a submitted - Fan applicable deseparameters: Midwest Laboratories is in compliance with NSLAC requirements and a submitted - Fan applicable deseparameters: Midwest Laboratories is in compliance with NSLAC requirements and a submitted - Fan applicable deseparameters: Midwest Laboratories is in compliance with NSLAC requirements and a submitted - Fan applicable deseparameters: Midwest Laboratories is in compliance with NSLAC requirements and a submitted - Fan applicable deseparameters: Midwest Laboratories is in compliance with NSLAC requirements and a submitted - Fan applicable deseparameters: Midwest Laboratories is in compliance with NSLAC requirements and a submitted - Fan applicable deseparameters: Midwest Laboratories is in compliance with NSLAC requirements and a submitted - Fan applicable deseparameters: Midwest Laboratories is in compliance with the submitted - Fan applicable deseparameters: Midwest Laboratories is in compliance with the submitted - Fan applicable deseparameters: Midwest Laboratories is in complex and a submitted - Fan applicable deseparameters: Midwest Laboratories is in complex and a submitted - Fan applicable deseparameters: Midwest Laboratories is in complex and a submitted - Fan applicable deseparameters: Midwest Laboratories is in comp



11-340-5063

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KIRBY FARMS	Lab Numb Descriptio		ALYSIS
22293 200TH AVE DAVENPORT IA 52807	Sample Id	l: 3-3	
Report Date: Dec 06, 2011 Received Date: Dec 02, 2011	Account N	Number: 26759	
Sampled Date: Dec 01, 2011 P.O. Number: Parameters	Analysis as Received	Nutrients Ibs/1000 gals	Est. First Year Availability Ibs/1000.gals
Ammonium Nitrogen(N) Organic Nitrogen(N) Total Nitrogen(N)	0.49 % 0.25 % 0.74 %	41.4 21.1 62.5	41 7 49
Phosphorus(P2O5) Potassium(K2O)	0.35 % 0.42 %	29.7 35.5	21 32
Sulfur(S) Calcium(Ca) Magnesium(Mg) Sodium(Na) Copper(Cu) Iron(Fe) Manganese(Mn) Zinc(Zn)	0.08 % 0.08 % 0.08 % 0.11 % 11 ppm 110 ppm 23 ppm 66 ppm	6.6 6.6 7.0 9.1 0.09 0.93 0.19 0.56	3 5 6 0.07 0.65 0.14 0.39
Moisture Total Solids Total Salts	95.8 % 4.2 %	354.9 99.6	
рН	8.7		

First year availability of nitrogen is calculated based on preplant application with incorporation. Nitrogen available from previous years application not

Total manure saits should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulation. These regulations vary from state to state.

Rob Ferris Client Service Representative rob@midwestlabs.com (402)829-9871



11-340-5059

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	Lab Numb Descriptio		ALYSIS
22293 200TH AVE DAVENPORT IA 52807	Sample Id	: 1-2	
Report Date: Dec 06, 2011 Received Date: Dec 02, 2011	Account N	lumber: 26759	
Sampled Date: Dec 01, 2011 P.O. Number:	Analysis as Received	Nutrients Ibs/1000 gals	Est. First Year Availability Ibs/1000 gals
Parameters Ammonium Nitrogen(N)	0.39 % 0.18 %	32.7 15.2	33 5
.Organic Nitrogen(N) Total Nitrogen(N)	0.57 %	47.9	38
Phosphorus(P2O5) Potassium(K2O)	0.27 % 0.35 %	23.0 29.9	16 27
Sulfur(S) Calcium(Ca) Magnesium(Mg) Sodium(Na) Copper(Cu) Iron(Fe) Manganese(Mn) Zinc(Zn)	0.05 % 0.07 % 0.06 % 0.09 % 12 ppm 90 ppm 18 ppm 58 ppm	4.0 5.7 5.0 7.4 0.10 0.76 0.15 0.49	2 4 5 0.07 0.53 0.11 0.34
Moisture Total Solids Total Salts	98.8 % 1.2 %	101.4 80.7	
рН	8.6		

First year availability of nitrogen is calculated based on preplant application with incorporation. Nitrogen available from previous years application not

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulation. These regulations vary from state to state.

Rob Ferris Client Service Representative rob@midwestlabs.com (402)829-9871



11-340-5058

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KIRBY	FARMS	

**DAVENPORT IA 52807** 

22293 200TH AVE

Lab Number: 10053829 Description: MANURE ANALYSIS

Sample Id: 1-1

Report Date: Dec 06, 2011 Received Date: Dec 02, 2011 Sampled Date: Dec 01, 2011 P.O. Number: Account Number: 26759

Sampled Date: Dec 01, 2011 P.O. Number:	Analysis as Received	Nutrients lbs/1000 gals	Est. First Year Availability Ibs/1000 gals
Parameters Ammonium Nitrogen(N)	0.38 %	31.9	32 5
Organic Nitrogen(N) Total Nitrogen(N)	0.16 % 0.54 %	13.6 45.5	37
Phosphorus(P2O5) Potassium(K2O)	0.08 % 0.10 %	6.9 8.8	5 8
Sulfur(S) Calcium(Ca) Magnesium(Mg) Sodium(Na) Copper(Cu) Iron(Fe) Manganese(Mn) Zinc(Zn)	0.01 % 0.02 % 0.02 % 0.03 % 3 ppm 27 ppm 5 ppm 16 ppm	1.1 1.5 1.6 2.2 0.03 0.23 0.04 0.14	0 1 2 0.02 0.16 0.03 0.09
Moisture Total Solids Total Salts	97.1 % 2.9 %	245.1 46.0	
рН	8.7		

First year availability of nitrogen is calculated based on preplant application with incorporation. Nitrogen available from previous years application not

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulation. These regulations vary from state to state.

Rob Ferris Client Service Representative rob@midwestlabs.com (402)829-9871

------The-result(a). issued en.this-report-only-reflect the analysis of the sample(a) submitted ... For applicable test parameters, Midwest Exponstories is in compliance with NELAC requirements.

50.75 51 34.8 35 46.05 46

Midwest Report Number:	11-340-5052	MIDWEST	Date Reported	
Reported to:	KIRBY FARMS 22293 200TH AVE DAVENPORT IA, 52807	MANURE ANALYSIS	Date Received <sup>™</sup> Lab Number:	10053823
Sample ID:	CLAUSSEN 1 &	South		

**Project PO:** 

## **Bio-Solids Analysis Report** VIEW YOUR SUBMITTAL FORM

VIEW YOU	<u>NUDO NI</u>		
			Est. First Year
	Analysis	Nutrients	Availability
Parameters	as Received	lbs/1000gals	lbs/1000gals
Ammonium Nitrogen (N)	0.60 %	(50.9	
Organic Nitrogen (N)	0.31 %	26.4	9
Total Nitrogen (N)	0.91 %	77.3	60
Phosphorus (P205)	0.42 %	(35)1	25
 Potassium (К₂О)	0.55 %	(46:4	
Sulfur (s)	0.07 %	6.2	2
Calcium (Ca)	0.16 %	13.2	9
Magnesium (Mg)	0.09 %	7.9	6
Sodium (Na)	0.10 %	8.6	
Copper (Cu)	27 ppm	0.23	
lron (Fe)	166 ppm	1.40	
Manganese (Mn)	30 ppm	0.25	
	156 ppm	1.32	0.92
Moisture	93.8 %		
Total Solids	6.2 %	523.9	
Total Salts		127.0	
рН	8.6	3	

## n.d. Non Detect

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be

Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations!

Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulations. These regulations vary from state to state.

https://www.midwestlabs.com/lims\_reports/LIQ\_rpt.php?labnum=10053823

53

37 49

Midwest Report Number: Reported to:	11-340-5053 KIRBY FARMS 22293 200TH	MIDWEST MIDWEST	Date Reported Date Received	
Sample ID:	AVE DAVENPORT IA, 52807 CLAUSSEN 3 &		Lab Number:	10053824

North

**Project PO:** 

Bio-Solids Analysis Report VIEW YOUR SUBMITTAL FORM						
			Est. First Year			
	Analysis	Nutrients	Availability			
Parameters	as Received	lbs/1000gals	lbs/1000gals			
Ammonium Nitrogen (N)	0.63 %	53.3				
Organic Nitrogen (N)	0.35 %	29.9				
Total Nitrogen (N)	0.98 %	83.2	64			
Phosphorus (P205)	0.43 %	36:7	•26			
Potassium (κ <sub>2</sub> ο)	0.59 %	50.2				
Sulfur (s)	0.08 %	7.1	3			
Calcium (Ca)	0.17 %	14.6	10			
Magnesium (Mg)	0.10 %	8.4	6			
Sodium (Na)	0.11 %	9.6				
	29 ppm	0.25				
lron (Fe)	162 ppm					
Manganese (Mn)	32 ppm	0.27				
	148 ppm	1.25	0.88			
Moisture	94.2 %					
Total Solids	5.8 %					
Total Salts		136.1				
pH						

#### n.d. Non Detect

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be

considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations!

Midwest Report Number: Reported to	11-340-5058 KIRBY FARMS 22293 200TH	$ \overset{k_{1}}{\longrightarrow} \overset{k_{1}}{\longrightarrow} \overset{b_{1}}{\longrightarrow} \overset{k_{0}}{\longrightarrow} \overset{b_{1}}{\longrightarrow} \overset{k_{0}}{\longrightarrow} \overset{b_{1}}{\longrightarrow} \overset{k_{0}}{\longrightarrow} \overset{b_{1}}{\longrightarrow} \overset{b_{1}}{\longrightarrow} \overset{b_{0}}{\longrightarrow} \overset{b_{1}}{\longrightarrow} \overset{b_{1}}{b_{1$	Date Reported: Date Received:	
Sample ID:	AVE DAVENPORT IA, 52807	MANURE  ANALYSIS  L	.ab Number:	10053829

### Bio-Solids Analysis Report VIEW YOUR SUBMITTAL FORM

VIEW YOUR SUDIMITIAL FORM				
	Est. First Year			
	Analysis	Nutrients	Availability_	
Parameters	as Received	lbs/1000gals	lbs/1000gals	
Ammonium Nitrogen (N)	0.38 %	31.9	32	
Organic Nitrogen (N)	0.16 %	13.6	5	
Total Nitrogen (N)	0.54 %	45.5	37	
Phosphorus (P205)	0.08 %	6.9	5	
Potassium (κ <sub>2</sub> ο)	0.10 %	8.8	8	
Sulfur (s)	0.01 %	1.1	0	
Calcium (Ca)	0.02 %	1.5	1	
Magnesium (Mg)	0.02 %	1.6	1	
Sodium (Na)	0.03 %	2.2	2	
Copper (Cu)	3 ppm	0.03		
Iron (Fe)	27 ppm	0.23		
Manganese (Mn)	5 ppm	0.04		
Zinc (Zn)	16 ppm	0.14	0.09	
Moisture	97.1 %			
Total Solids	2.9 %	245.1		
Total Salts		46.0		
рН	8.7	7		

## n.d. Non Detect

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also

be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations!

Midwest Report Number: Reported to	11-340-5063 KIRBY FARMS	MIDWEST	Date Reported Date Received	
•	22293 200TH AVE DAVENPORT IA, 52807	MANURE ANALYSIS	<sup>⋄</sup> Lab Number:	10053834

Sample ID: 3-3

### Bio-Solids Analysis Report VIEW YOUR SUBMITTAL FORM

VIEW TOUR SUDIVITIAL FORM				
			Est. First Year	
	Analysis	Nutrients	Availability	
Parameters	as Received	lbs/1000gals	lbs/1000gals	
Ammonium Nitrogen (N)	0.49 %	41.4	41	
Organic Nitrogen (N)	0.25 %	21.1	7	
Total Nitrogen (N)	0.74 %	62.5	49	
Phosphorus (P205)	0.35 %	29.7	21	
Potassium (K <sub>2</sub> 0)	0.42 %	35.5	32	
Sulfur (s)	0.08 %	6.6	3	
Calcium (Ca)	0.08 %	6.6		
Magnesium (Mg)	0.08 %	7.0	5	
Sodium (Na)	0.11 %	9.1	6	
Copper (Cu)	11 ppm	0.09	0.07	
Iron (Fe)	110 ppm	0.93	0.65	
Manganese (Mn)	23 ppm	0.19	0.14	
Zinc (Zn)	66 ppm	0.56	0.39	
Moisture	95.8 %			
Total Solids	4.2 %	354.9		
Total Salts		99.6		
pH	8.7			

#### n.d. Non Detect

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered.

Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations!

Midwest Report Number:	11-340-5062	MIDWEST	Date Reported	
	KIRBY FARMS	Midwest crachase	Date Received	l:Dec 02, 2011
	22293 200TH	· · · · · · · · · · · · · · · · · · ·	\$	
	AVE DAVENPORT IA, 52807	MANURE ANALYSIS	Lab Number:	10053833
Sample ID:	3-2			

### Bio-Solids Analysis Report VIEW YOUR SUBMITTAL FORM

VIEW TOUR SUDIVITTAL FORM				
			Est. First Year	
	Analysis	Nutrients	Availability	
Parameters	as Received	lbs/1000gals	lbs/1000gals	
Ammonium Nitrogen (N)	0.47 %	40.1	40	
Organic Nitrogen (N)	0.22 %	18.4	6	
Total Nitrogen (N)	0.69 %	58.5	47	
Phosphorus (P205)	0.40 %	34.1	24	
Potassium (κ₂ο)	0.40 %	33.6	30	
Sulfur (s)	0.07 %	5.8	2	
Calcium (Ca)	0.12 %	9.8		
Magnesium (Mg)	0.10 %	8.2	6	
Sodium (Na)	0.10 %	8.6	6	
Copper (Cu)	10 ppm	0.08	0.06	
Iron (Fe)	119 ppm	1.01	0.70	
Manganese (Mn)	27 ppm	0.23	0.16	
Zinc (Zn)	64 ppm	0.54	0.38	
Moisture	96.0 %			
Total Solids	4.0 %	338.0		
Total Salts		100.3		
pН	8.7			

## n.d. Non Detect

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered.

Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations!

Midwest Report Number:	11-340-5061	MIDWEST_	Date Reported	l:Dec 06, 2011
Reported to	KIRBY FARMS 22293 200TH	MI dwgst Catabase	Date Received	I:Dec 02, 2011
	AVE DAVENPORT IA, 52807	MANURE ANALYSIS	Lab Number:	10053832

Sample ID: 3-1

**Project PO:** 

## Bio-Solids Analysis Report VIEW YOUR SUBMITTAL FORM

		10 6 8 / Vien 1	
			Est. First Year
	Analysis	Nutrients	Availability
Parameters	as Received	lbs/1000gals	lbs/1000gals
Ammonium Nitrogen (N)	0.46 %	38.8	39
Organic Nitrogen (N)	0.23 %	19.5	7
Total Nitrogen (N)	0.69 %	58.3	46
Phosphorus (P205)	0.35 %	29.5	21
Potassium (κ <sub>2</sub> ο)	0.39 %	32.9	30
Sulfur (s)	0.06 %	4.9	2
Calcium (Ca)	0.07 %	6.0	4
Magnesium (Mg)	0.09 %	7.2	5
Sodium (Na)	0.10 %	8.2	6
Copper (Cu)	10 ppm	0.08	0.06
Iron (Fe)	103 ppm	0.87	0.61
Manganese (Mn)	22 ppm	0.19	0.13
Zinc (Zn)	62 ppm	0.52	0.37
Moisture	96.4 %		
Total Solids	3.6 %	304.2	
Total Salts		93.1	
рН	8.8		

## n.d. Non Detect

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered.

Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations!

Midwest Report Number: Reported to	11-340-5060 :KIRBY FARMS	MIDWEST	Date Reported Date Received	
Sample ID:	22293 200TH AVE DAVENPORT IA, 52807	MANURE ANALYSIS	<sup>⊗</sup> Lab Number:	10053831

### Bio-Solids Analysis Report VIEW YOUR SUBMITTAL FORM

VIEW TOOK SOBWITTAET OKM				
			Est. First Year	
	Analysis	Nutrients	Availability	
Parameters	as Received	lbs/1000gals	lbs/1000gals	
Ammonium Nitrogen (N)	0.40 %	34.1	34	
Organic Nitrogen (N)	0.21 %	17.5	6	
Total Nitrogen (N)	0.61 %	51.6	40	
Phosphorus (P205)	0.37 %	31.1	22	
Potassium (κ <sub>2</sub> ο)	0.36 %	30.4	27	
Sulfur (s)	0.06 %	4.9	2	
Calcium (Ca)	0.09 %	7.3		
Magnesium (Mg)	0.09 %	7.5	5	
Sodium (Na)	0.09 %	7.5	5	
Copper (Cu)	14 ppm	0.12	0.08	
Iron (Fe)	107 ppm	0.90	0.63	
Manganese (Mn)	24 ppm	0.20	0.14	
Zinc (Zn)	62 ppm	0.52	0.37	
Moisture	98.8 %			
Total Solids	1.2 %	101.4		
Total Salts		86.8		
рН	8.7			

### n.d. Non Detect

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered.

Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations!

Midwest Report Number:	11-340-5059	<u>MIDWEST</u>	Date Reported	I:Dec 06, 2011
Reported to	:KIRBY FARMS 22293 200TH AVE	Midwest Cive For Soil Peacing	Date Received	l:Dec 02, 2011
	DAVENPORT IA, 52807	MANURE ANALYSIS	Lab Number:	10053830

Sample ID: 1-2

#### **Project PO:**

## Bio-Solids Analysis Report VIEW YOUR SUBMITTAL FORM

			Est. First Year
	Analysis	Nutrients	Availability
Parameters	as Received	lbs/1000gals	lbs/1000gals
Ammonium Nitrogen (N)	0.39 %	32.7	33
Organic Nitrogen (N)	0.18 %	15.2	5
Total Nitrogen (N)	0.57 %	47.9	38
Phosphorus (P205)	0.27 %	23.0	16
Potassium (κ₂ο)	0.35 %	29.9	27
Sulfur (s)	0.05 %	4.0	2
Calcium (Ca)	0.07 %	5.7	4
Magnesium (Mg)	0.06 %	5.0	4
Sodium (Na)	0.09 %	7.4	5
Copper (Cu)	12 ppm	0.10	0.07
Iron (Fe)	90 ppm	0.76	0.53
Manganese (Mn)	18 ppm	0.15	0.11
Zinc (Zn)	58 ppm	0.49	0.34
Moisture	98.8 %		
Total Solids	1.2 %	101.4	
Total Salts		80.7	
рН	8.6		

### n.d. Non Detect

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered.

Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations!

Midwest Report Number:	11-340-5057		MIDWEST	4	Date Reported	:Dec 06, 2011
	KIRBY FARMS 22293 200TH	<b>Vi</b> z	Hidwest Catages for	Resting	Date Received	:Dec 02, 2011
	AVE DAVENPORT IA. 52807	ĥ	MANURE ANALYSIS	<b>*</b>	Lab Number:	10053828

Sample ID: SG 2

### Bio-Solids Analysis Report VIEW YOUR SUBMITTAL FORM

VILVV TOUR SUDIVITTAL FORM					
			Est. First Year		
	Analysis	Nutrients	Availability		
Parameters	as Received	lbs/1000gals	lbs/1000gals		
Ammonium Nitrogen (N)	0.12 %	9.9	10		
Organic Nitrogen (N)	0.05 %	4.9	2		
Total Nitrogen (N)	0.17 %	14.8	12		
Phosphorus (P205)	0.14 %	11.5	8		
Potassium (κ <sub>2</sub> ο)	0.11 %	9.4	8		
Sulfur (s)	0.02 %	1.4	1		
Calcium (Ca)	0.06 %	4.7	3		
Magnesium (Mg)	0.03 %	2.6	2		
Sodium (Na)	0.02 %	1.8	1		
	11 ppm	0.09	0.07		
Iron (Fe)	84 ppm	0.71	0.50		
Manganese (Mn)	12 ppm	0.10	0.07		
Zinc (Zn)	73 ppm	0.62	0.43		
Moisture	99.0 %				
Total Solids	1.0 %	84.5			
Total Salts		28.4			
рН	8.5				

#### n.d. Non Detect

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered.

Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations!

Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulations. These regulations vary from state to state.

https://www.midwestlabs.com/lims reports/LIQ rpt.php?labnum=10053828

Midwest Report Number: Reported to	11-340-5055 KIRBY FARMS		Date Reported	
Sample ID:	22293 200TH AVE DAVENPORT IA, 52807	MANURE ANALYSIS	Lab Number:	10053826

#### Bio-Solids Analysis Report VIEW YOUR SUBMITTAL FORM

VIEW TOOK SOBWITTAET OKM						
	Analysis	Nutrients	Availability			
Parameters	as Received Ibs/1000g		lbs/1000gals			
Ammonium Nitrogen (N)	0.17 %	14.8	15			
Organic Nitrogen (N)	0.06 %	4.5	. 2			
Total Nitrogen (N)	0.23 %	19.3	16			
Phosphorus (P205)	0.28 %	23.3	16			
Potassium (к <sub>2</sub> 0)	0.13 %	10.6	10			
Sulfur (s)	0.03 %	2.6	1			
Calcium (Ca)	0.08 %	7.1	5			
Magnesium (Mg)	0.06 %	4.9	3			
Sodium (Na)	0.04 %	3.2	2			
Copper (Cu)	8 ppm	0.07	0.05			
Iron (Fe)	141 ppm	1.19				
Manganese (Mn)	19 ppm	0.16	0.11			
Zinc (Zn)	69 ppm	0.58	0.41			
Moisture	98.7 %					
Total Solids	1.3 %	109.8				
Total Salts		40.6				
рН	8.6					

## n.d. Non Detect

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered.

Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations!

Midwest Report Number:	11-340-5056		Date Reported	
	KIRBY FARMS	Midwesterachasa	Date Received	l:Dec 02, 2011
-	22293 200TH	······································	8	
Sample ID:	AVE DAVENPORT IA, 52807 SG 1	MANURE ANALYSIS	Lab Number:	10053827

### Bio-Solids Analysis Report VIEW YOUR SUBMITTAL FORM

	VIEW TOUR SUDIVITIAL FORM					
			Est. First Year			
	Analysis	Nutrients	Availability			
Parameters	as Received	lbs/1000gals	lbs/1000gals			
Ammonium Nitrogen (N)	0.09 %	7.9	8			
Organic Nitrogen (N)	0.01 %	0.3	0			
Total Nitrogen (N)	0.10 %	8.2	8			
Phosphorus (P205)	0.03 %	2.9	2			
Potassium (κ <sub>2</sub> ο)	0.08 %	7.1	6			
Sulfur (s)	0.01 %	0.8	0			
Calcium (Ca)	0.01 %	0.6	0			
Magnesium (Mg)	n.d. %	0.2	0			
Sodium (Na)	0.03 %	2.2	2			
Соррег (Си)	n.d. ppm	0.00				
Iron (Fe)	8 ppm	0.07	0.05			
Manganese (Mn)	1 ppm	0.01	0.01			
Zinc (Zn)	3 ppm	0.03	0.02			
Moisture	99.7 %					
Total Solids	0.3 %	25.3				
Total Salts		18.0				
рН	8.5					

## n.d. Non Detect

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered.

Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations!



### Bio-Solids Analysis Report VIEW YOUR SUBMITTAL FORM

		· · · · · · · · · · · · · · · · · · ·	Est. First Year
	Analysis	Nutrients	Availability
Parameters	as Received	lbs/1000gals	lbs/1000gals
Ammonium Nitrogen (N)	0.16 %	13.3	13
Organic Nitrogen (N)	0.03 %	3.0	1
Total Nitrogen (N)	0.19 %	16.3	14
Phosphorus (P205)	0.07 %	6.2	4
Potassium (K <sub>2</sub> 0)	0.13 %	10.7	10
Sulfur (s)	0.02 %	1.6	1
Calcium (Ca)	0.02 %	1.7	1
Magnesium (Mg)	0.01 %	0.5	0
Sodium (Na)	0.04 %	3.4	2
Copper (Cu)	3 ppm	0.03	0.02
Iron (Fe)	38 ppm	0.32	0.22
Manganese (Mn)	4 ppm	0.03	0.02
Zinc (Zn)	20 ppm	0.17	0.12
Moisture	99.4 %		
Total Solids	0.6 %	50.7	
Total Salts		29.6	
рН	8.4		

## n.d. Non Detect

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered.

Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations!

Midwest Report Number: Reported to	11-340-5051 KIRBY FARMS		ed:Dec 06, 2011 ed:Dec 02, 2011
	22293 200TH AVE DAVENPORT IA, 52807	MANURE ANALYSIS Lab Number	: 10053822

Sample ID: F1

Project PO :

## Bio-Solids Analysis Report VIEW YOUR SUBMITTAL FORM

VIEW YOUR SUBIVITTAL TOTAL					
			Est. First Year		
	Analysis	Nutrients	Availability		
Parameters	as Received	lbs/1000gals	lbs/1000gals		
Ammonium Nitrogen (N)	0.12 %	9.9	10		
Organic Nitrogen (N)	0.06 %	5.5			
Total Nitrogen (N)	0.18 %	15.4			
Phosphorus (P205)	0.21 %	17.5	12		
Potassium (κ <sub>2</sub> ο)	0.09 %	7.9	7		
Sulfur (s)	0.02 %	1.8	1		
Calcium (Ca)	0.07 %	5.6			
Magnesium (Mg)	0.04 %	3.6	3		
Sodium (Na)	0.03 %	2.2	2		
Copper (Cu)	6 ppm	0.05			
Iron (Fe)	103 ppm	0.87			
Manganese (Mn)	16 ppm	0.14			
Zinc (Zn)	48 ppm	0.41	0.28		
Moisture	99.0 %				
Total Solids	1.0 %				
Total Salts		29.2	<u> </u>		
рН	8.4	4			

## n.d. Non Detect

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also

be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations!

#### IOWA MASTER MATRIX SUPPLEMENT

#### Kirby Farms Inc. SCOTT COUNTY

#### December 2012

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.

Question		
#	Description	Actual
	Site Separation Distances	
2	public use area	1900'
3	school, church, business	~13000'
4	Closest water source > 500'	~2200' to west
5	Proposed structure to thoroughfare >300'	~308'
6	critical public area	
7	Distance to wells	>200'
8	drainage wells, sinkholes, major water sources	Mt. Joy
9	Distance to nearest MMP site	~15000'
10	high quality/protected waters	Mississippi
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
22	Homestead Tax Exemption	personal statement
23	Family Farm tax credit	personal statement
24	Facility Size	2006 au
<u> </u>	Manure inject 200 ft or more from school, church	
32	or business	· · · · · · · · · · · · · · · · · · ·
	Land Application Separation Distances	
35	HQW or PWA	

Table 1. Summary table of matrix questions receiving points

12. Covered Manure Storage

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

#### 17. Formed Manure Storage Structure

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

- The storage structure will be measured for manure volume monthly to monitor the amount of manure being produced.
- The volume of manure will be recorded and records maintained on site.
- A visual inspection of the outer above ground perimeter will be made on a semiannual 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 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.

22. We are the closest residents to the site.

23. I can lawfully claim a Family Farm Tax Credit for agricultural land where the proposed confinement operation is to be located pursuant to Iowa Code chapter 425A. I believe the statements here to be true and agree to adhere to the specifications.

Ener le

Dennis Kirby of Kirby Farms Inc.

Daily Checks Checked and working appropriately Checked and adjustments made dly ked and working Check appropriat Wecked and adjustments made

#### **Monthly Checks**

Date			· . · ·	 *	
Manure Depth	·		· · · · · · · · · · · · · · · · · · ·	 	
	Is water present?	YES	or NO	-	•
	Approximate dep		incl		
Pumpout lids:	Condition? GO	OD	FAIR	NEEDS AT	TENTION

#### 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 <u>one</u> 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" subcateogry.

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,

2

\* Nursing home, or

- 1000ft required
- \* Licensed or registered child care facility.

		Score	Air	Water	Community
S OFO fact to EOO fact		25	16.25		8.75
-> 250 feet to 500 feet	· ·	45	29.25		17.50
501 feet to 750 feet		65	42.25		22.75
751 feet to 1,000 feet		· · · · · · · · · · · · · · · · · · ·			29.75
1,001 feet to 1,250 feet		85	55.25		
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.

Additional separation distance, above minimum requirements, from proposed confinement structure to the closest public use area. 1875 ft required

	1000					
structure to the closest public use area.		Score	Air	Water	Community	
250 feet to 500 feet		5	2.00		3.00	
	······	10	4.00		6.00	
501 feet to 750 feet		15	6.00		9.00	
751 feet to 1,000 feet					12.00	
1,001 feet to 1,250 feet		20	8.00			
1,251 feet to 1,500 feet		25	10.00		15.00	

the second se		 	 00	40.00	10.00
4 FOA fact or	mara	 	 30 1	12.00	
1,501 feet or	more	 	 		
		 the second s			

(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

1875ft required.

\* 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
	15	6.00		9.00
751 feet to 1,000 feet	20	8.00		12.00
1,001 feet to 1,250 feet	25	10.00		15.00
1,251 feet to 1,500 feet	30	12.00		18.00
→ 1,501 feet or more		12.00	· · · · · · · ·	

(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.

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	
	15		15.00	
751 feet to 1,000 feet	20	<del></del>	20.00	
1,001 feet to 1,250 feet	25		25.00	1
1,251 feet to 1,500 feet	30		30.00	+
1,501 feet or more	30	<u> </u>	1 30.00	<u> </u>

"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.

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

	· · · ·		1	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.

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

		 	Score	Air	Water	Community	
$\searrow$	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.

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

		Score	Air	Water	Community	1
N	Two times the minimum separation distance	30		24.00	6.00	
_/	t This of 507. Observer 65 for minimum required seneration dist	ances to w	vells.			

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

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

- \* Agricultural drainage well,
- \* Known sinkhole, or

5

8

\* 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
P				

(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.

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

liat has a submitted depa					Score	Air	Water	Community
Three-quarter of a mile	or mor	e (3.960	) feet)	· · ·	25	7.50	7.50	10.00
Tillee-quarter of a tille		0 (0,000						

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

Separation distance from proposed confinement structure to closest: 10

\*High quality (HQ) waters,

\* High quality resource (HQR) waters, or

\* Protected water areas (PWA)

is at least two times the minimum required separation distance

IS at least two times the minimum required in the	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.state.ia.us/government/dnr/organiza/ppd/prowater.htm#Location%20of%20PWA's%20in.

Air quality modeling results demonstrating an annoyance level less than 2 percent of the 11 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		4.00	

(A) OFFSET can be found at <u>http://www.extension.umn.edu/distribution/livestocksystems/DI7680.html</u>. 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.	н. Алаган (1996)			
12) Liquid manule storage structure is correct	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.

	1999 - A.	Score	Air	Water	Community
Emergency containment		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).

		Scule	Ċ.	VILLOI		
Installation of filter(s)		10	8.00		2.00	
mistaliation of mor (o)	 the in the	a a matrix (a)	tion pormit	annlicatio	n and	

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.

<u></u>

15	Othization of landocaping electric comments	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.

oompoolaig attaction i	Score	Air	Water	Community	l
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				
$\sim$		Score	Air	Water	Community

			<u>۱</u>
. r		30 27.00 3.0	00
	Formed manure storage structure		~ I
		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(s)		10	8.00		2.00

(A) Aerobic structure - an animal feeding operation structure other than an egg washwater storage structure which relies on aerobic bacterial action which is maintained by the utilization of air or oxygen and which includes aeration equipment to digest organic matter. Aeration equipment shall be used and shall be capable of providing oxygen at a rate sufficient to maintain an average of 2 milligrams per liter dissolved oxygen concentration in the upper 30 percent of the depth of manure in the structure at all times.

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

(19)

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

			Score	Air	Water	Community
>	Truck turnaround		20			20.00
/		····	· · · · · · · · · · · · · · · · · · ·		1	

(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.

Construction permit applicant's animal feeding operation environmental and worker protection violation history for the last five years at all facilites 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

r			1. A.		F 00
l		Б II	1		5.00
ł	Permanent waiver of Pollution Control Tax Exemption	່ 🛛 🛛			
ļ	Permanent waiver of a bilduon control year	- 11			
				the second s	

(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.

Construction permit applicant can lawfully claim a Homestead Tax Exemption on the site 22 where the proposed confinement structure is to be constructed

- OR -

the construction permit applicant is the closest resident to the proposed confinement structure. Water Community Air Score

1	
$\rightarrow$	

23

Site qualifies for Homestead Tax Exemption or permit applicant is closest resident to proposed structure

25.00 25

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

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 lowa Code chapter 425A.

	Code chapter 120.	· · ·	· · · ·		Score	Air	Water	Community	ł
None -	The The Cred	it qualificativ	<u></u>		25			25.00	
$\rightarrow$	Family Farm Tax Cred	<u>ii quanican</u>		Winto roo	+" moons	ownershir	of a confi	inement	

(A) Applicant include persons who have ownership interests. "Interest" - means own 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	Аіг	Water	Community
	20			20.00
1 to 2,000 animal unit capacity	10			10.00
2,001 to 3,000 animal unit capacity				0.00
3,001 animal unit capacity or more		<u></u>		

(A) Refer to the construction permit application package to determine the animal unit capacity of the proposed confinement structure at the completion of construction.

(B) If the proposed structure is part of an expansion, animal unit capacity (or animal weight capacity) must include all animals confined in adjacent confinement structures.

(C) Two or more animal feeding operations under common ownership or management are deemed to be a single animal feeding operation if they are adjacent or utilize a common area or system for manure disposal. In addition, for purposes of determining whether two or more confinement feeding operations are adjacent, all of the following must apply:

(a) At least one confinement feeding operation structure must be constructed on and after May 21, 1998.

(b) A confinement feeding operation structure which is part of one confinement feeding operation is separated by less than a minimum required distance from a confinement feeding operation structure which is part of the other confinement feeding operation. The minimum required distance shall be as follows:

(1) 1,250 feet for confinement feeding operations having a combined animal unit capacity of less than 1,000 animal units.

(2) 2,500 feet for confinement feeding operations having a combined animal unit capacity of 1,000 animal units or more.

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

	· · · ·	÷ .	· · ·		00010	/			
Wet/dry feede	rs or other	feeding	g and wate	ring	25		12.50	12.50	
systems that s	significantly	reduce	e manure v	olume					l

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.

Liquid or dry manure (choose only one subsection from subsections "a" - "e" and mark one 26 Community Water Air Score Bulk dry manure is sold under lowa Code chapter 15.00 15 a. 200A and surface-applied Bulk dry manure is sold under lowa Code chapter 6.00 12.00 12.00 200A and incorporated on the same date it is land-30 applied

b.	Dry manure is composted and land-applied under the requirements of a department manure management	10	4.00	4.00	2.00	
	plan Dry manure is composted and sold so that no manure is applied under the requirements of a department manure management plan	30	12.00	12.00	6.00	

C.	Methane digester is used to generate energy from manure and remaining manure is surface-applied under the requirements of an approved department manure management plan	10	3.00	3.00	4.00
	After methane digestion is complete, manure is injected or incorporated on the same date it is land- applied under the requirements of an approved department manure management plan	30	12.00	12.00	6.00
d.	Dry manure is completely burned to generate energy and no remaining manure is applied under the requirements of a manure management plan	30	9.00	9.00	12.00
	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
	Off the Samo date it to the JT				
	Injection or incorporation of manure on the same date		10.00	12.00	6.00
e.	it is land-applied	30	12.00	12.00	

(A) Choose only ONE line from subsection "a", "b," "c," "d," or "e" above and mark only one score in that

(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

(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.

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

	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 to the fields listed in the manure management plan.

adjacent to the lielus listed in the manere manage	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.

	00010			
No manure application on HEL farmland	10		10.00	
Manure application on non-HEL farmland must be in the construction per	nit applica	tion and n	nade a conc	dition in
Manure application on non-nee lanmand must be in the center of the	• •		· · · ·	

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	vvater	Community	
Additional separation distance of 200 feet	5	3.25		1.75	
Additional separation distance of 500 feet	10	6.50		3.50	
Anomorial Separation distance of our lest	the second s				

(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.

(C) Minimum separation distances for land application of manual observation permit application and made a condition in the (D) The additional separation distances must be in the construction permit application permit.

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 huma

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

land application of manale to any a	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—Dhapter 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	
$\rightarrow$	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	10		8.00	2.00	
properly closed		ļ		Ļ	Ĺ

(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	Į.
Additional separation distance of 200 feet	5	0.50	2.50	2.00	
	10	1.00	5.00	4.00	
Additional separation distance of 400 feet		<u> </u>			

(A) "Agricultural drainage wells" - include surface intakes, cisterns and wellheads of agricultiral 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.

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

\* High quality (HQ) water,

\* High quality resource (HQR) water, or

\* Protected water area (PWA).

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

(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.state.ia.us/government/dnr/organiza/ppd/prowater.htm#Location%20of%20PWA's%20in

#### Demonstrated community support. 36

	Scole	70	V VOICOI		
 L (100% of the property oweners		. ·		00.00	
Written approval of 100% of the property oweners	20			20.00	
within a one mile radius.					

Community

Water

37

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

	Score	Air	Water	Community	
	10			10.00	
Submission of worker safety and protection plan	10	<u>  </u>		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

	· .	and the second second	S	core	Air	Water	Community
Manure managem	nent plan co	onfidentiality 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 lowa 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 lowa 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."

#### Construction permit application contains an emergency action plan. 40

Emergency action plan 5 2.50 2.50	U	Collation point oppion		 Г	Score	Air	Water	Community	1
		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.

#### struction permit application contains a closure plan. 41

41	Construction permit application container		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.

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

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.

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

Fidit (CIVIVII ). 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.

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

· · · ·	· · · · · · · · · · · · · · · · · · ·	· · ·	 	1. i.u.	Score	Air	Water	Community	
Groundwa	ter monito	oring			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

Total 465 90.75 143.5 230.75 Scores For Kirby Farms Inc.



Timothy Huey Director

To: Dee F Bruemmer, County Administrator

From: Timothy Huey, Planning Director

Date: January 10, 2013

Re: First of two readings of ordinance to rezone approximately 5 acres from Agricultural-Preservation District (A-P) to Agriculture Service Floating Zone (A-F) in the southwesterly corner (precisely the west 600 feet of the south 365 feet) of the SW<sup>1</sup>/4SW<sup>1</sup>/4 of Section 18 in Butler Township.

Following two public hearings the Board will now consider the first of two readings of the ordinance to rezone 5 acres in Butler Township from A-P to A-F. The A-F regulations state that the Planning Commission reviews the Site Plan at the same time as the rezoning application and all conditions of the Site Plan Review will be included in the ordinance amendment. The Planning Commission approved the Site Plan for Crop Production Services with the following conditions:

- 1) A permanent, secure, and lockable front gate must be constructed across the completed driveway entrance of the site.
- 2) The applicant shall install and maintain adequate security lighting for the site. Specifically, all buildings and storage areas shall be lit during nighttime hours, and all nighttime lighting shall be "full cut-off" in nature as well as designed to minimize light spillover across the property line. A lighting plan must be submitted prior to issuance of a building permit.
- 3) A landscaping plan shall be submitted prior to the issuance of a building permit. The plan must show how general site operations as well as any light spillover will be buffered from nearby properties. Special attention shall be paid to shielding the southern and western boundaries of the site, where the nearest residential properties are located. The landscaping plan shall include at least some evergreens or other non-deciduous plants which will provide buffering during all seasons. The plan may include any combination of plantings that achieve a reasonable buffering of the site during its operation.
- 4) Copies of any state and federal permits required to be held by Crop Production Services for this site shall be submitted to the Scott County Planning and Development Office prior to the issuance of a building permit.

Those conditions have been included in the attached ordinance amendment. With its final approval the Board of Supervisors would be permitted to amend those conditions if it was determined to be appropriate by the Board prior to approval of the second and final reading of the ordinance amendment.

ITEM 5 01-15-13 Prepared by: Scott County Planning and Development, 500 West Fourth Street, Davenport Iowa

#### SCOTT COUNTY ORDINANCE NO. 13-\_\_\_\_

AN ORDINANCE TO AMEND THE ZONING MAP BY REZONING APPROXIMATELY 5 ACRES MORE OR LESS IN SECTION 18, TOWNSHIP 80 NORTH, RANGE 4 EAST OF THE 5<sup>TH</sup> PRINCIPAL MERIDIAN (BUTLER) TOWNSHIP) FROM "A-P" AGRICULTURAL PRESERVATION DISTRICT TO "A-F" AGRICULTURE SERVICE FLOATING ZONE IN UNINCORPORATED SCOTT COUNTY WITH THE CONDITIONS OF THE SITE PLAN REVIEW

BE IT ENACTED BY THE BOARD OF SUPERVISORS OF SCOTT COUNTY IOWA:

**Section 1.** In accordance with Section 6-31 <u>Scott County Code</u>, the following described unit of real estate are hereby rezoned from an "A-P "Agricultural Preservation District to "A-F" Agriculture Service Floating Zone with the conditions:

- 1) A permanent, secure, and lockable front gate must be constructed across the completed driveway entrance of the site.
- 2) The applicant shall install and maintain adequate security lighting for the site. Specifically, all buildings and storage areas shall be lit during nighttime hours, and all nighttime lighting shall be "full cut-off" in nature as well as designed to minimize light spillover across the property line. A lighting plan must be submitted prior to issuance of a building permit.
- 3) A landscaping plan shall be submitted prior to the issuance of a building permit. The plan must show how general site operations as well as any light spillover will be buffered from nearby properties. Special attention shall be paid to shielding the southern and western boundaries of the site, where the nearest residential properties are located. The landscaping plan shall include at least some evergreens or other non-deciduous plants which will provide buffering during all seasons. The plan may include any combination of plantings that achieve a reasonable buffering of the site during its operation.
- 4) Copies of any state and federal permits required to be held by Crop Production Services for this site shall be submitted to the Scott County Planning and Development Office prior to the issuance of a building permit.

that to wit:

The west 600 feet of the south 365 feet of the SW1/4SW1/4 of Section 18 in Butler Township (T80N, R4E)

Section 2. The County Auditor is directed to record this ordinance in the County Recorder's Office.

**Section 3.** Severability Clause. If any of the provisions of this Ordinance are for any reason illegal or void, then the lawful provisions of the Ordinance, which are separate from said unlawful provisions shall be and remain in full force and effect, the same as if the Ordinance contained no illegal or void provisions.

Section 4. Repealer. All ordinances or part of ordinances in conflict with the provisions of the Ordinance are hereby repealed.

**Section 5.** Effective Date. This Ordinance shall be in full force and effect after its final passage and publication as by law provided.

Approved this day of , 2013

Larry Minard, Chairman Scott County Board of Supervisors

Roxanna Moritz, Scott County Auditor

#### SCOTT COUNTY PERSONNEL ACTIONS

#### BOARD MEETING: January 17, 2013

#### **NEW HIRES**

Employee/Department	Position		Effective Date	Remarks
April Mosley FSS	Custodial Worker P/T	\$13.22/hr	01/07/13	Replaces Janice Barnett
F33	P/1			
Justin Dusil	Correction Officer	\$34,549	01/22/13	Replaces Rich Hume
Sheriff/Jail	Trainee			
TRANSFERS AND PRO	MOTIONS			
Employee/Department	New Position	Salary Change	Effective Date	e Remarks
Judy Kelly	Multi-Service Clerk	\$35,859 - \$36,837	01/02/13	
Treasurer				
LEAVES OF ABSENCE/	OTHER			
Employee/Department	Position	Effective I	Date	Remarks
None				
BARGAINING UNIT ST				
DARGAINING ON 1 31				
Employee/Department	Position	Salary Change	Wage Step	Effective Date
Dennis Hoffmann Sheriff	Bailiff – P/T	\$17.28/hr - \$18.14/hr	Step 2	01/01/13
Willie Moore Sheriff	Bailiff – P/T	\$19.72/hr - \$20.41/hr	Step 5	01/07/13
Shehin				
Rachelle Kunde	Deputy Sheriff	\$59,114 - \$59,717	Step 10	01/12/13
Sheriff				
MERIT INCREASES				
Employee/Department	Position	Salary Change	% of	Effective Date
Christopher Still	Maintenance	\$46,912 - \$49,258	Midpoint 98.793%	01/02/13
FSS	Coordinator	\$40,912 - \$49,230 (5.0%)*	90.79370	01/02/13
*				
	pointment or promotion.	. Salary adjusted 5% ii	not above 95%	of midpoint & employee receives
rating of 3 of better.				
rating of 3 or better. <b>BONUS</b>				
BONUS	Position	Effective Date		
BONUS Employee/Department	Position Correction Officer	Effective Date 07/29/12		
BONUS	Position Correction Officer	Effective Date 07/29/12		
BONUS Employee/Department Lindsay Serrano Sheriff/Jail	Correction Officer	07/29/12		
BONUS Employee/Department Lindsay Serrano				
BONUS Employee/Department Lindsay Serrano Sheriff/Jail Martin Kearney Sheriff/Jail	Correction Officer	07/29/12 08/12/12		
BONUS Employee/Department Lindsay Serrano Sheriff/Jail Martin Kearney	Correction Officer	07/29/12		
BONUS Employee/Department Lindsay Serrano Sheriff/Jail Martin Kearney Sheriff/Jail Burt Graham	Correction Officer Correction Officer Heavy Equipment	07/29/12 08/12/12		

Personnel Actions Board Meeting: January 17, 2013 Page 2 of 2

#### SEPARATIONS

Employee/Department	Position	Hire Date	Separation Date	Reason for Separation
None				
REQUEST TO FILL VACAN	ICIES			
Position/Department	Position Status	Starting Date	Previous Incumbent	Recommendation
None				

Employee/Department	Position	Course of Study	Course dates(s)
Raquel Posateri	Medical Assistant	Anatomy & Physiology I	1/14/13 – 4/22/13
Health		Black Hawk College	

ITEM 8 01-15-13



January 15, 2013

To: Scott County Board of Supervisors

From: Ray Weiser, GIS Coordinator

Re: GIS Software Maintenance Renewal

Our Scott County GIS software suite represents a collection of advanced desktop, server and mobile applications that provide the county with the ability to share, analyze and maintain a growing collection of spatial information. The software we use is developed by the industry leading GIS software firm, Environmental Systems Research Institute (ESRI) based in Redlands, CA.

ESRI's offers an annual, renewable software license for their products which gives us access to product updates, technical support and complimentary ESRI User Conference registration. The maintenance agreement before you covers the following software:

- Two (2) ArcGIS Server Standard Enterprise applications.
- Three (3) Advanced (ArcInfo) desktop applications.
- Seven (8) Standard (ArcView) desktop applications.
- Seven (7) Mobile (ArcPad) applications.
- Four (4) extension products (3D Analyst, Publisher, Spatial Analyst, Network Analyst).

I respectfully recommend approval of the ESRI GIS Software Maintenance Renewal request in the amount of \$20,171.92. If approved, the GIS software maintenance renewal costs will be paid for using funds from the Information Technology Department Budget, and with \$321.92 from the Sheriff's Office for maintenance of the Network Analyst Extension.

Sincerely,

Ray Weiser Scott County GIS Coordinator

Encl: ESRI Quote, Resolution



Scott County, Iowa Geographic Information Systems Information Technology Department



Esri Inc 380 New York Street Redlands CA 92373

### SUBJECT: MAINTENANCE QUOTE

DATE: TO: ORGANIZATION:	01/04/2013 Ray Weiser COUNTY OF SCOTT INFORMATION TECHNOLOGY DEPT
FAX #:	563-326-8669 PHONE #: 563-328-4137
FROM:	Ajmal Yourish
FAX #:	909-307-3083 <b>PHONE #:</b> 909-793-2853 Ext. 2376
EMAIL:	ayourish@esri.com
Number of pages transmitted	4 QUOTATION #25561672
(including this cover sheet):	4 DOCUMENT DATE: 01/04/2013

Please find the attached quotation for your forthcoming software maintenance term. Keeping your maintenance current entitles you to exclusive benefits, and if you choose to discontinue your coverage, you will become ineligible for these valuable benefits and services. All maintenance fees from the date of discontinuation will be due and payable if you decide to reactivate your coverage at a later date. For details regarding the maintenance program benefits for your licensing, please visit http://www.esri.com/maintenancebenefits.

Customers who have multiple copies of some Esri products may have the option of supporting some of their licenses with secondary maintenance. Please contact Customer Service to find out more about the availability of secondary maintenance.

For information about Esri Desktop, Developer software, or Web services terms of use, as well as purchase order terms and conditions, please visit http://www.esri.com/legal/licensing/software-license.html.

For details about ECP discounts and waivers for non-profit users please visit http://www.conservationgis.org/grant

If you have any questions or need additional information, please contact Customer Service at 888-377-4575 Option 5.



Phone: 909-793-28532376 Fax #: 909-307-3083

## Quotation

Date:	01/04	2013 Quotation Number: 25561672		
Date: 01/04/2013       Quotation Number: 25561672         COUNTY OF SCOTT       INFORMATION TECHNOLOGY DEPT         GEOGRAPHIC INFORMATION SYSTEMS DIV       600 W 4TH ST         DAVENPORT IA 52801       Attn: Ray Weiser         Customer Number: 239115       For questions regarding this document, please contact Customer Service at 888			Send Purchase Orders To: Esri, Inc. 380 New York Street Redlands, CA 92373-8100 Attn: Ajmal Yourish Please include the following remittance address on your Purchase Order: Esri, Inc. File #54630 Los Angeles, CA 90074-4630 8-377-4575.	
Item	Qty	Material#	Unit Price	Extended Price
10	1	52384 ArcGIS for Desktop Advanced (formerly ArcInfo) Concurrent Use I Start Date: 04/24/2013 End Date: 04/23/2014	3,000.00 Primary Maintenance	3,000.00
1010	2	52385 ArcGIS for Desktop Advanced (formerly ArcInfo) Concurrent Use S Start Date: 04/24/2013 End Date: 04/23/2014	1,200.00 Secondary Maintenance	2,400.00
2010	1	87194 ArcGIS for Desktop Basic (formerly ArcView) Concurrent Use Prin Start Date: 04/24/2013 End Date: 04/23/2014	700.00 nary Maintenance	700.00
3010	7	87195 ArcGIS for Desktop Basic (formerly ArcView) Concurrent Use Sec Start Date: 04/24/2013 End Date: 04/23/2014	500.00 ondary Maintenance	3,500.00
4010	1	87232 ArcGIS Spatial Analyst for Desktop Concurrent Use Primary Maint Start Date: 04/24/2013	500.00 tenance	500.00

This quotation is valid for 90 days and is subject to your Esri License Agreement. The quotation information is proprietary and may not be copied or released other than for the express purpose of system selection and purchase/license. This information may not be given to outside parties or used for any other purpose without consent from Environmental Systems Research Institute, Inc. (Esri).

Any estimated sales and/or use tax has been calculated as of the date of this quotation and is merely provided as a convenience for your organization's budgetary purposes. Esri reserves the right to adjust and collect sales and/or use tax at the actual date of invoicing. If your organization is tax exempt or pays state taxes directly, then prior to invoicing, your organization must provide Esri with a copy of a current tax exemption certificate issued by your state's taxing authority for the given jurisdiction.

**Issued By:** Ajmal Yourish Ext: 2376

To expedite your order, please reference your customer number and this quotation number on your purchase order.



# Quotation Page 2

Date: 01/04/2013         Quotation Number: 25561672				
em Qty	Material#	Unit Price	Extended Price	
	End Date: 04/23/2014			
6010 1	87198 ArcGIS 3D Analyst for Desktop Concurrent Use Primary Mainten Start Date: 04/24/2013 End Date: 04/23/2014	500.00 ance	500.00	
010 1	98696 ArcGIS Publisher for Desktop Concurrent Use Primary Maintena Start Date: 04/24/2013 End Date: 04/23/2014	500.00 nce	500.00	
010 1	100571 ArcGIS Network Analyst for Desktop Concurrent Use Primary Ma Start Date: 09/01/2013 End Date: 04/23/2014	321.92 aintenance	321.92	
8010 1	109216 ArcGIS for Server Enterprise Standard Up to Four Cores Mainter Start Date: 04/24/2013 End Date: 04/23/2014	5,000.00 nance	5,000.00	
0010 7	114511 ArcPad Maintenance Start Date: 04/24/2013 End Date: 04/23/2014	250.00	1,750.00	
0010 1	109839 ArcGIS for Server Enterprise Standard Up to Four Cores Migrate Start Date: 04/24/2013 End Date: 04/23/2014	2,000.00 ed Maintenance	2,000.00	
DUNS/CE	: 06-313-4175 CAGE: 0AMS3	Subtotal Estimated Tax Total	20,171.92 0.00 <b>\$ 20,171.92</b>	



#### Quotation

Page 3

 Date:
 01/04/2013
 Quotation No:
 25561672
 Customer No:
 239115

 Item
 Qty
 Material#
 Unit Price
 Extended Price

IF YOU WOULD LIKE TO RECEIVE AN INVOICE FOR THIS MAINTENANCE QUOTE YOU MAY DO ONE OF THE FOLLOWING:

- RESPOND TO THIS EMAIL WITH YOUR AUTHORIZATION TO INVOICE
- SIGN BELOW AND FAX TO 909-307-3083
- FAX YOUR PURCHASE ORDER TO 909-307-3083

REQUESTS VIA EMAIL OR SIGNED QUOTE INDICATE THAT YOU ARE AUTHORIZED TO OBLIGATE FUNDS FOR YOUR ORGANIZATION AND THAT YOUR ORGANIZATION DOES NOT REQUIRE A PURCHASE ORDER.

If there are any changes required to your quotation, please respond to this email and indicate any changes in your invoice authorization.

If you choose to discontinue your support, you will become ineligible for support benefits and services. All maintenance fees from the date of discontinuation will be due and payable if you decide to reactivate your support coverage at a later date.

This transaction is governed exclusively by the terms of the above-referenced contract, if any, or Esri's standard terms and conditions at www.esri.com/legal.

In order to expedite processing, please reference the quotation number and any/all applicable Esri contract number(s) (e.g. MPA, ELA, SmartBuy, GSA, BPA) on your ordering document.

By signing below, you are authorizing Esri to issue a software support invoice in the amount of \$\_\_\_\_\_ plus sales tax, if applicable.

Please check one of the following:

I agree to pay any applicable sales tax.

\_\_\_\_\_ I am tax exempt. Please contact me if Esri does not have my current exempt information on file.

Please indicate on your purchase order if this purchase is funded through the American Recovery and Reinvestment Act, and whether Esri is a Prime Recipient, Sub-recipient, or Vendor for reporting purposes.

Signature of Authorized Representative

Date

Name (Please Print)

Title

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

#### January 17, 2013

## APPROVAL OF ANNUAL MAINTENANCE RENEWAL FOR GIS SOFTWARE SUITE WITH ESRI, INC.

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

- Section 1. That the annual maintenance renewal for GIS software suite with ESRI, Inc. in the amount of \$20,171.92 is hereby approved.
- Section 2. That a purchase order shall be issued for said amount for the annual maintenance renewal for GIS software suite in the amount of \$20,171.92 (further described in ESRI, Inc. quote # 25561672).
- Section 3. This resolution shall take effect immediately.

ITEM 9

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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

#### January 17, 2013

#### APPROVAL OF APPOINTMENT OF RICH MOHR TO THE CONSERVATION BOARD

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

Section 1. That the appointment of Rich Mohr, Long Grove, Iowa, to the

Conservation Board for a five (5) year term expiring on December

31, 2017 is hereby approved.

#### Section 2. This resolution shall take effect immediately.

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

#### January 17, 2013

#### APPROVAL OF APPOINTMENT OF MEDICAL EXAMINER AND DEPUTIES

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

Section 1. That the following appointments for a two (2) year term expiring on

December 31, 2014 are hereby approved:

Dr. Barb Harre – Medical Examiner Dr. Camilla Frederick, Deputy Medical Examiner Dr. Richard Sadler, Deputy Medical Examiner Denny Coon, Investigator Brian Jacobsen, Investigator

Section 2. This resolution shall take effect immediately.