HARDIN COUNTY
Board of Supervisors

September 27, 2022

NOTICE: Public meetings will be held in-person and also livestreamed for viewing only, as possible. To view meetings remotely, please use the Zoom information listed below.

1. 9:00 A.M. Call To Order, EOC Training Room

   Online: HTTPS://US02WEB.ZOOM.US/J/88530378243

   By Phone: 1-312-626-6799

   Meeting ID: 885 3037 8243

2. Pledge Of Allegiance
3. Approval Of Agenda
4. Approval Of Minutes – 09/21/22

   Documents:

   9-21-22 MINUTES.PDF

5. Approval Of Claims For Payment – 09/28/22

   Documents:

   VENDOR PUBLICATION REPORT 09.28.22.PDF

6. Acknowledge Receipt Of Animal Feeding Operation Construction Permit

   Documents:

   MALLARD BAY SITE CONSTRUCTION PERMIT APPLICATION.PDF

7. Set Time And Date For Public Hearing – Mallard Bay Site, Section 16 Buckeye Township
8. Acknowledge Receipt Of Animal Feeding Operation Construction Permit

   Documents:

   HARDIN BUCKEYE 25 SITE CONSTRUCTION PERMIT APPLICATION.PDF

9. Set Time And Date For Public Hearing – Hardin Buckeye 25 Site, Section 25, Buckeye Township

10. Consideration To Approve Abatement Orders From The Assessor
11. Consideration To Approve Use Of The Courthouse Grounds – Crisis Intervention Service

    Documents:

    USE OF COURTHOUSE GROUNDS-CRISIS INTERVENTION.PDF

12. Consideration To Approve Wageworks Renewal
13. Change Of Status - Facilities

    Documents:

    CHANGE OF STATUS-FACILITIES.PDF

14. Other Business
15. Adjournment/Recess
16. 9:30 A.M. Drainage, EOC Training Room

    Online:

    HTTPS://US02WEB.ZOOM.US/J/82075672007

    By Phone: 1-312-626-6799

    Meeting ID: 820 7567 2007

17. 10:30 A.M. Closed Session Pursuant To Iowa Code Section 21.5(1)(C) – Pending Or Imminent Litigation

    EOC Training Room

HARDIN COUNTY BOARD OF SUPERVISORS
MINUTES – SEPTEMBER 21, 2022
WEDNESDAY – 9:00 A.M.
EOC TRAINING ROOM

Board BJ Hoffman called the meeting to order. Supervisors Lance Granzow and Renee McClellan were present. Also attending: Darrell Meyer, Taylor Roll, Angela De La Riva, Michael Pearce, Janetta Buck, Machel Eichmeier, Janetta Buck, and Jolene Pieters. Attending via Zoom: Cheryl Lawrence, Lori Kadner, Elaine Loring, Curt Groen, Aaron Budweg, Donna Juber, Pauline Lloyd, and Julie Duhn.

The Pledge of Allegiance was recited.

McClellan moved, Granzow seconded to approve the agenda. Motion carried.

Granzow moved, McClellan seconded to approve the minutes from September 14, 2022. Motion carried.

McClellan moved, Granzow seconded to approve the claims for payment for September 21, 2022. Motion carried.

Granzow moved, McClellan seconded to approve Resolution 2022-37 Conveyance of Interest in Real Property – County Home Farmland. Roll Call Vote: "Ayes" Granzow, McClellan, Hoffman. "Nays" none. Absent: None. Motion carried. Resolution No. 2022-37 is hereby adopted as follows:

Where upon Board Member Lance Granzow moved that the following resolution be adopted:

RESOLUTION NO. 2022-37

CONVEYANCE OF INTEREST IN REAL PROPERTY

WHEREAS, Hardin County, after duly giving notice and public hearing, held an auction on July 13, 2022, to sell the below-described real property;

All of the E ½ of the SW ¼ of Section 26, Township 88, Range 20 South of the Railroad; All of the W ½ of the SE ¼ of Section 26, Township 88, Range 20 South of the Railroad, except Parcel A located in the SE ¼ of the SW ¼ and the SW ¼ of the SE ¼ as found in survey recorded as year 2000, document 1300 in the office of the Hardin County Recorder. The garden tract, the cemetery, the building site, the wildlife area enclosed by multiflora hedge, communications tower, wetland area and the seepage bed are excluded.

(This property is subject to a farm lease that ends February 29, 2024, as recorded as Instrument No. 20213734)

WHEREAS, Dean Bright was the high bidder at the auction; and

WHEREAS, Dean Bright has directed Hardin County to prepare the deed listing the owner as Sunset Distributors, Ltd.; and

WHEREAS, the property has been surveyed and the property is sold at auction is identified at Parcel C as noted on Attachment "A";

NOW THEREFORE, BE IT RESOLVED by the Board of Supervisors of Hardin County, Iowa, that the Board shall convey the above-described property referred to as Parcel C to Sunset Distributors, Ltd.

The motion was seconded by Board Member Renee McClellan and after due consideration thereof, the roll was called, and the following Board Members voted:

Ayes: Granzow, McClellan, Hoffman
Nays: None
Absent: None
Abstain: None

Whereupon, the Chair of the Board of Supervisors declared said Resolution duly passed and adopted this 21st day of September 2022.

/s/ BJ Hoffman
BJ Hoffman, Chair
Board of Supervisors

Attest:
/s/ Jolene Pieters
Jolene Pieters
Hardin County Auditor

Granzow moved, McClellan seconded to approve Abatements from the Assessor's Office. Treasurer Eichmeier explained that some of the credits were taken away and did not get put back on the properties due to system errors. The property owners were thanked for looking over their tax statements and bringing it to our attention. Motion carried.

McClellan moved, Granzow seconded to approve the corrections of utility taxes due to system errors. Motion carried.

McClellan moved, Granzow seconded to approve a credit card for the VA Affairs office for Janetta Buck. Motion carried.

McClellan moved, Granzow seconded to approve the use of the Hardin County Courthouse grounds on Monday, September 26th, and Tuesday September 27th from 9:00 a.m. to 5:00 p.m. both days for the Iowa Bible Reading Marathon. Motion carried.

Other business: Angela De La Riva stated she continues to hold business visits. Treasurer Eichmeier reminded everyone that property taxes are due by September 30, 2022 and can be paid by e-check or credit card. She stated that online payments have increased. Engineer Roll stated

that the Alden bridge is officially closed and will be for possibly 12 months. He also stated that he had his annual meeting with the bridge inspectors.

McClellan moved, Granzow seconded to adjourn the meeting. Motion carried.

Meeting was adjourned at 9:09 a.m.

At 10:30 a.m. the Board of Supervisors met for a work session with Julie Devine from CIGNA Insurance to discuss. In attendance were Supervisors Hoffman, Granzow and McClellan and Julie Devine from CIGNA.

Work session ended at 11:30 a.m.

Hardin County

Vendor Publication Report

Payment Date Range: 09/28/2022 - 09/28/2022

Vendor Name	Vendor Number	Total Payments
AgSource Cooperative Services	6022V	1,023.75
AgVantage FS	690V	61,389.76
Alliant Energy	4253V	12,604.99
Angela De La Riva	100411	132.21
Boulder Contracting, LLC	100270	18,358.00
Campbell Supply Co	620V	1,741.49
Casey's General Store-IFalls	100007	80.00
Caterpillar Financial Services	2434V	3,093.26
CenturyLink 2956	4569V	1,059.90
Cintas-Chicago	2475V	192.47
City of Steamboat Rock	518V	25.00
Clifford D Cory	566E	80.26
Cooley Pumping LLC	61963V	635.00
CrawDaddy Outdoors	100916	1,380.72
Emergency Serv Markerting Corp, Inc.	2451V	39,424.00
Fareway Food Stores-Eldora	4728V	90.00
Fareway Stores-Ia. Falls	717V	90.00
Four Winds Family Farm LP	100940	147.73
GECRB/AMAZON	2403V	6,727.60
Gehrke Inc.	6131V	149.24
Global Hydraulics & Supply Inc.	100482	114.26
Gray's Painting & Tree Services	101167	8,200.00
Hardin County Office Supplies	119V	188.55
IEHA	315V	240.00
Iowa Department of Inspections & Appeals	100176	50.00
Iowa Prison Industries	809V	246.96
Jody L Mesch	58E	40.00
John Deere Financial	1394V	915.50
Knight Sanitation	993V	398.00
Lucas Michel Burton	100315	150.00
Marla Kay Williams	2268V	638.75
Martin Marietta Aggregate	4141V	651.60
Midland Power Cooperative	5999V	2,065.64
Murphy Tractor & Equipment Co., Inc	2286V	1,889.52
National Emergency Number Association	101162	700.00
Pebworth Homes, LLC	101165	400.00
Petroblend Corp.	1219V	3,195.59
Pine Lake Corn Processors	63182V	80.00
Port53 Technologies, Inc	100897	2,889.00
Quaker Security LLC	100507	1,410.00
Quality Automotive Inc	61237V	62.00
RC Systems- Waterloo Office	2077V	7,373.89
Sadler Power Train Inc	5067V	1,749.88
Shield Pest Control LLC	63086V	60.00
Star Equipment Ltd.	4437V	821.99
Summit Food Service LLC	2332V	4,991.15
Truck Center Companies East LLC	100823	1,316.37
Verizon Connect Nwf, Inc-Dallas	100620	18.19
Vogel Traffic Services	63740V	69,461.09
Windstream Communications / CABS	62349V	795.00
Ziegler Incorporated	1463V	88.00
	Grand Total:	259,626.31

pinnacle
Environmental Compliance
...for agriculture

620 Country Club Road Iowa Falls, Iowa 50126 Office: (641) 648-7300 Fax: (641) 648-7310 www.pinnacleiowa.com

September 12, 2022

Re: Mallard Bay

Attached you will find a Permit Application and a revised Master Matrix for the Mallard Bay Site. The trees at the site were removed due to storm damage and will not be replanted due to issues with plugged tile. The master matrix score has been revised to remove the tree requirement of question #15. The matrix still has a passing score of 450. **Please note that there is no new construction or expansion happening at this site.**

We are requesting that the public notice states that there is **no new construction or expansion** happening at the site and the permit application only being used to amend the original Master Matrix.

We will be attending the site visit with the DNR and we will attend the Supervisor Meeting and any public hearings. Please sign the enclosed county verification and fax back to 641-648-7310 or e-mail to jean@pinnacleiowa.com.

We apologize for the inconvenience. Please call us if you have any questions at 641-648-7300.

Thank You,

Kent Krause
Cell 515-571-7816

Please staple check here

Iowa Department of Natural Resources

Construction Permit Application Form

Confinement Feeding Operations

INSTRUCTIONS:

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

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

THIS APPLICATION IS FOR:

1. ☐ A new confinement feeding operation
2. ☒ An existing confinement feeding operation *(answer all of the following questions):*
   a) Facility ID No. (5 digit number): 63866
   b) Date when the operation was first constructed: 8/17/05 Separation distance table used: 6
   c) Date when the last construction, expansion or modification was completed: 06/08/15

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

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

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

A) Name of operation: Mallard Bay

Location:

SE	NE	16	T88N R22W	Buckeye	Hardin
(¼ ¼)	(¼)	(Section)	(Tier & Range)	(Name of Township)	(County)

B) Applicant information:

Name: Scott Schager Title:

Address: 7302 Marquette St., Dallas, TX 75225

Telephone: 817-821-1603 Fax: Email:

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

Name: Kent Krause Title:

Address: 620 Country Club Rd., Iowa Falls, IA 50126

Telephone: 641-648-7300 Fax: Email:

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

☐ I manage or have a 10% or more ownership interest in another confinement feeding operation located within 2,500 feet of the proposed site. Please contact the DNR AFO Program staff at (712) 262-4177 to verify site adjacency requirements.

[1] Confinement feeding operation structure = animal feeding operation structure (confinement building, manure storage structure or egg washwater storage structure) that is part of a confinement feeding operation. Manure storage structures include formed and unformed manure storage structures.
[2] Formed manure storage structure = covered or uncovered concrete or steel tanks, and concrete pits below the building.

ITEM 2 – SITING INFORMATION:

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

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

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

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

ITEM 3 – OPERATION INFORMATION:

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

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

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

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

Modifying the master matrix score to remove points for #15 - Utilization of Landscaping

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

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

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

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

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

A) Calculating AUC – Required for all operations

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

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

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

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

Animal Species	a) Existing AUC (Before permit)			b) Total AUC (After permit)		
	(No. Head)	x (Factor)	= AUC	(No. Head)	x (Factor)	= AUC
Slaughter or feeder cattle		1.0			1.0	
Immature dairy cattle		1.0			1.0	
Mature dairy cattle		1.4			1.4	
Gestating sows		0.4			0.4	
Farrowing sows & litter		0.4			0.4	
Boars		0.4			0.4	
Gilts		0.4			0.4	
Finished (Market) hogs	5200	0.4	2080	5200	0.4	2080
Nursery pigs 15 lbs to 55 lbs		0.1			0.1	
Sheep and lambs		0.1			0.1	
Goats		0.1			0.1	
Horses		2.0			2.0	
Turkeys 7 lbs 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	
Ducks		0.04			0.04	
Fish 25 grams or more		0.001			0.001	
Fish less than 25 grams		0.00006			0.00006	
TOTALS:		a) Existing AUC:	2080	b) Total proposed AUC:		2080

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

c) New AU = b) - a): 0

(This is the AUC of the operation)

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

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

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

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

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

Animal Species	a) Existing AWC (Before Permit)			b) Proposed AWC (After permit)		
	(No. head) x	avg weight	= AWC	(No. head) x	avg weight	= AWC
Slaughter or feeder cattle						
Immature dairy cattle						
Mature dairy cattle						
Gestating sows						
Farrowing sows & litter						
Boars						
Gilts						
Finished (Market) hogs						
Nursery pigs 15 lbs to 55 lbs						
Sheep and lambs						
Goats						
Horses						
Turkeys 7lbs or more						
Turkeys less than 7 lbs						
Broiler/Layer chickens 3 lbs or more						
Broiler/Layer chickens less than 3 lbs						
Ducks						
Fish 25 grams or more						
Fish less than 25 grams						
TOTALS:		a) Existing AWC:		b) Total proposed AWC:		

c) New AWC = b) - a):

(This is the AWC of the operation)

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

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

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

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

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

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

ITEM 6- UTILIZING RURAL WATER SYSTEM FOR WATER SUPPLY

☐ The proposed facility will utilize rural water and the providing rural water system has been notified and is aware of the proposed increase in water use.

ITEM 7 – SIGNATURE:

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

Signature of Applicant(s): _____ Date: 9/12/22

MAILING INSTRUCTIONS:

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

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

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

Questions

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

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

ITEM 8

Interested Parties Form
Confinement Feeding Operation

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

INSTRUCTIONS:

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

Full Name	Address	City/State	Zip
Scott Schager	7302 Marquett St.	Dallas, TX	75225

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

Operation Name	Location (¼ ¼, ¼, Section, Tier, Range, Township, County)	City
☐ **None** [There are no other confinements in Iowa in which the above listed person(s) has or have an interest].		
Gator Pork	NE, NW, 34, T89N, R22W, Alden, Hardin	Alden

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

Signature of Applicant(s): _____ Date: 9/12/22

ITEM 9

Manure Storage Indemnity Fee Form for Construction Permits

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

Credit fees to: Scott Schager

Name of operation: Mallard Bay

INSTRUCTIONS:

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

- **Example 1**: An existing swine operation is expanding from an 'Existing AUC' of 1,000 AU to a 'Total Proposed AUC' of 1,800 AU, and has previously paid an indemnity fee for the existing 1,000 AU. Calculate the indemnity fee as follows: The 'Total Proposed AUC' is between 1,000 AU and 3,000 AU; the animal specie is other than poultry; enter 800 AU in the 'New AU' column, row 4, and multiply it by $ 0.15:

  (800 AU) x ($ 0.15 per AU) = $ 120.00

- **Example 2**: An existing poultry operation is expanding from an 'Existing AUC' of 250 AU to a 'Total Proposed AUC' of 2,000 AU and has not paid the indemnity fee for animals housed in the existing buildings. Calculate the indemnity fee as follows: The 'Total Proposed AUC' is between 1,000 AU and 3,000 AU; the animal specie is poultry and the indemnity fee has not previously been paid, enter 2,000 AU in the 'New AU' column on row 3, and multiply it by $0.06:

  (2,000 AU) x ($ 0.06 per AU) = $ 120.00

- **Example 3**: If you are proposing a new swine confinement feeding operation with a 'Total Proposed AUC' of 3,500 AU, enter 3,500 AU in the 'New AU' column, row 6 and multiply it by $ 0.20:

  (3,500 AU) x ($ 0.20 per AU) = $ 700.00

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

Indemnity Fee Table:

Total Proposed AUC (After Permit (from column B, Table 1)	Row	Animal species	New AU (from column C Table 1)	x	Fee per AU	Indemnity Fee
Less than 1,000 AU	1	Poultry		x	$ 0.04 =	
	2	Other		x	$ 0.10 =	
1,000 AU or more to less than 3,000 AU	3	Poultry		x	$ 0.06 =	
	4	Other	0	x	$ 0.15 =	0
3,000 AU or more	5	Poultry		x	$ 0.08 =	
	6	Other		x	$ 0.20 =	

ITEM 9 (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: Scott Schager

Name of operation: Mallard Bay

INSTRUCTIONS:

1. If the operation is applying for a construction permit enclose a payment for the following:
   ☒ Construction application fee $250.00.
   (Note: This fee is non-refundable)

2. A manure management plan must be submitted with a filing fee.
   ☒ Manure management plan filing fee $250.00
   (Note: This fee is non-refundable)

3. If this is a change in ownership then indemnity fees must also be paid on the current (existing) total AUC at the appropriate rate on page 7.
   ☐ Indemnity fee due to ownership change $ _____

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

SUMMARY:

- Manure Storage Indemnity Fee (see previous page) to be deposited in the Manure Storage Indemnity Fee Fund (474)	$	0
- Total filing fees (see item 4 on this page) to be deposited in the Animal Agriculture Compliance Fund (473)	$	500.00
TOTAL DUE:	$	500.00

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

ITEM 10

COUNTY VERIFICATION RECEIPT OF DNR CONSTRUCTION PERMIT APPLICATION

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

Applicant: Scott Schager Telephone: 817-821-1603

Name of operation: Mallard Bay

Location:	SE	NE	22	T88N R22W	Buckeye	Hardin
	(¼ ¼)	(¼)	(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[1] 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[3] or an egg washwater storage structure submit documentation required in Addemdum "A" of this construction application form.
- ☐ Attachment 3 - Manure management plan (MMP).
- ☒ Attachment 4 - Master Matrix (if required). You must include supporting documents (see Checklist No. 1 or 2)

Revised Documents: ☐ Application ☐ CDS ☐ Matrix ☐ MMP ☐ Other _____

THIS SECTION IS RESERVED FOR THE COUNTY

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

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

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

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

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

COUNTY: Hardin

NAME: Ashley Klaffke

TITLE: Accounts Payable

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

Date: Sept 15, 20 22.

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

Mallard Bay
Matrix Revison 2022

APPENDIX C MASTER MATRIX

Proposed Site Characteristics

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

1. Additional separation distance, above minimum requirements, from proposed confinement structure to the closest:
   * Residence not owned by the owner of the confinement feeding operation,
   * Hospital,
   * Nursing home, or
   * Licensed or registered child care facility.

2803 - 1875 = 928'

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

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

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

1501 + 2500 = None within 4001'

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

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

3. Additional separation distance, above minimum requirements, from proposed confinement structure to the closest:
   * Educational institution,
   * Religious institution, or
   * Commercial enterprise.

1501+1875 = None within 3376'

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

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

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

4394 - 500 = 3894'

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

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

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

	Score	Air	Water	Community
300 feet or more	30	9.00		21.00

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

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

5001+2500 = None within 5000'

	Score	Air	Water	Community
500 feet or more	(10)	4.00		6.00

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

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

217'

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

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

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

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

2501+1000 = None within 3501'

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

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

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

0

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

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

10. Separation distance from proposed confinement structure to closest:

* High quality (HQ) waters,
* High quality resource (HQR) waters, or
* Protected water areas (PWA)

is at least two times the minimum required separation distance

1000 x 2 = None within 2000'

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

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

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

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

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

12. Liquid manure storage structure is covered.

	Score	Air	Water	Community
Covered liquid manure storage	30	27.00		3.00

(A) "Covered" - organic or inorganic material, placed upon an animal feeding operation structure used to store manure, which significantly reduces the exchange of gases between the stored manure and the outside air. Organic materials include, but are not limited to, a layer of chopped straw, other crop residue, or a naturally occurring crust on the surface of the stored manure. Inorganic materials include, but are not limited to, wood, steel, aluminum, rubber, plastic, or Styrofoam. The materials shall shield at least 90 percent of the surface area of the stored manure from the outside air. Cover shall include an organic or inorganic material which current scientific research shows reduces detectable odor by at least 75 percent. A formed manure storage structure directly beneath a floor where animals are housed in a confinement feeding operation is deemed to be covered.
(B) The design, operation and maintenance plan for the manure cover must be in the construction permit application and made a condition in the approved construction permit.

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

	Score	Air	Water	Community
Emergency containment area	20		18.00	2.00

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

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

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

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

15. Utilization of landscaping around confinement structure.

	Score	Air	Water	Community
Utilization of Landscaping	20	10.00		10.00

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

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

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

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

17. Proposed manure storage structure is formed

	Score	Air	Water	Community
Formed manure storage structure	30		27.00	3.00

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

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

	Score	Air	Water	Community
Aerated manure storage structure	10	8.00		2.00

(A) Aerobic structure - an animal feeding operation structure other than an egg wash water storage structure which relies on aerobic bacterial action which is maintained by the utilization of air or oxygen and which includes aeration equipment to digest organic matter. Aeration equipment shall be used and shall be capable of providing oxygen at a rate sufficient to maintain an average of 2 milligrams per liter dissolved oxygen concentration in the upper 30 percent of the depth of manure in the structure at all times.
(B) The design, operation and maintenance plan for the aeration equipment must be in the construction permit application and made a condition in the approved construction permit.

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

	Score	Air	Water	Community
Truck turnaround	20			20.00

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

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

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

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

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

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

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

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

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

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

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

	Score	Air	Water	Community
Family Farm Tax Credit qualification	25			25.00

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

24. Facility size. 5200 x .4 = 2080 AU

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

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

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

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

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

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

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

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

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

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

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

Proposed Site Operation and Manure Management Practices

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(A) The department will award points only for the single building, of the four listed above, closest to the proposed confinement feeding operation.
(B) Minimum separation distance for land application of manure injected or incorporated on the same date as application: 0 feet.
(C) Minimum separation distance for land application of manure broadcast on soil surface: 750 feet.
(D) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.
(E) "Licensed child care center" – a facility licensed by the department of human services providing child care or preschool services for seven or more children, except when the facility is registered as a child care home.
(F) "Registered child development homes" - child care providers certify that they comply with rules adopted by the department of human services. This process is voluntary for providers caring for five or fewer children and mandatory for providers caring for six or more children.
(G) A full listing of licensed and registered child care facilities is available at county offices of the Department of Human Services

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

36. Demonstrated community support.

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

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

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

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

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

	Score	Air	Water	Community
Manure management plan confidentiality waiver	5			5.00

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

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

	Score	Air	Water	Community
Economic value to local community	10			10.00

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

40. Construction permit application contains an emergency action plan.

	Score	Air	Water	Community
Emergency action plan	5		2.50	2.50

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

41. Construction permit application contains a closure plan.

	Score	Air	Water	Community
Closure Plan	5		2.50	2.50

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

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

	Score	Air	Water	Community
EMS	15	4.50	4.50	6.00

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

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

	Score	Air	Water	Community
CNMP	10	3.00	3.00	4.00

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

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

	Score	Air	Water	Community
Groundwater monitoring	15		10.50	4.50

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

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

Site: Mallard Bay

Date: 2/25/22

APPENDIX C
MASTER MATRIX

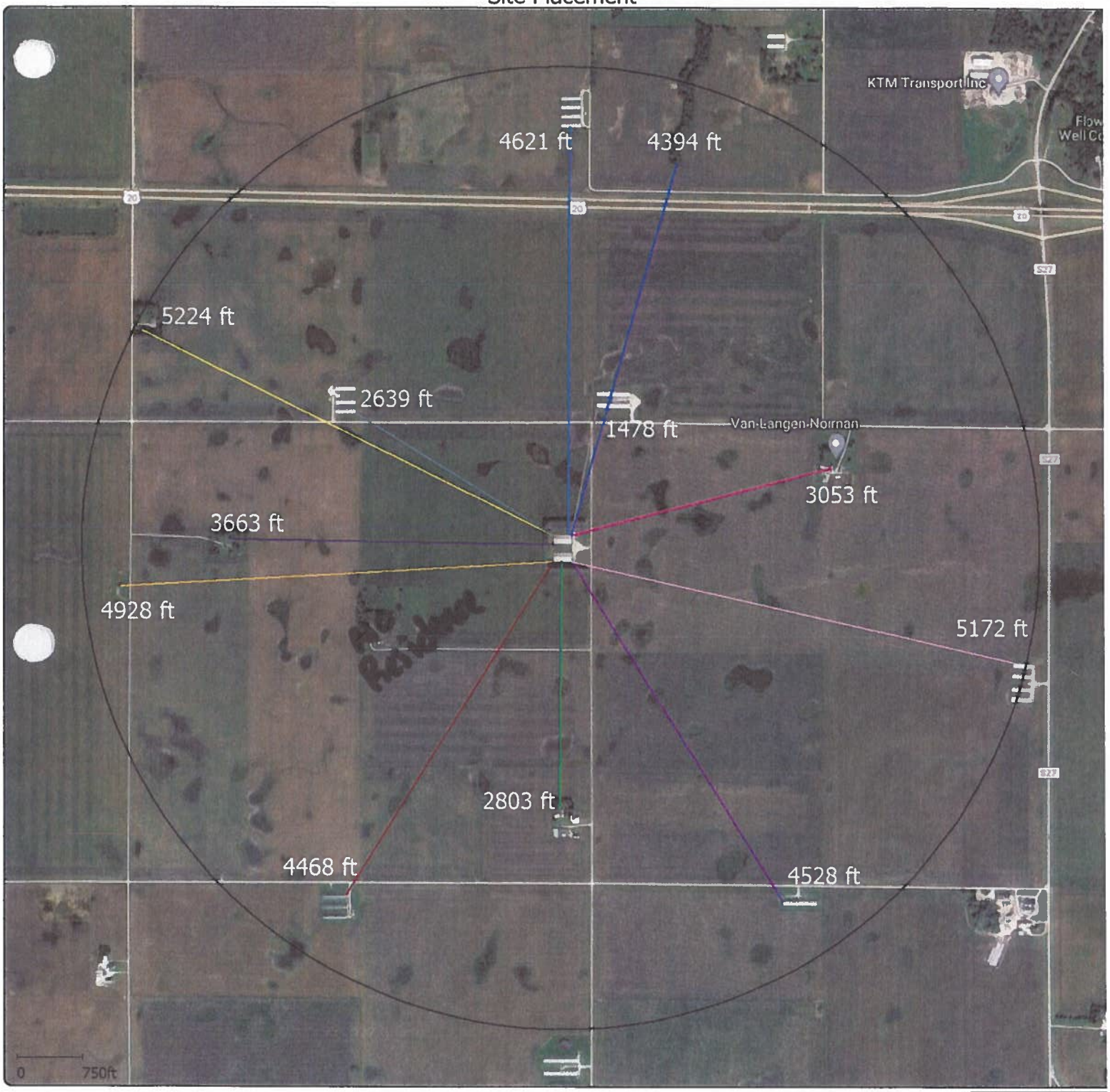
Question	Score	Air	Water	Community		
1	65	42.25	0	22.75		
2	30	12	0	18		
3	30	12	0	18		
4	30	0	30	0		
5	0	0	0	0		
6	10	4	0	6		
7	30	0	24	6		
8	50	5	25	20		
9	0	0	0	0		
10	30	0	22.5	7.5		
11	0	0	0	0		
12	30	27	0	3		
13	0	0	0	0		
14	0	0	0	0		
15	0	0	0	0		
16	0	0	0	0		
17	30	0	27	3		
18	0	0	0	0		
19	20	0	0	20		
20	30	0	0	30		
21	0	0	0	0		
22	0	0	0	0		
23	0	0	0	0		
24	10	0	0	10		
25	25	0	12.5	12.5		
26	30	12	12	6	Only for: "b,c, or d"	Only for: "a & e"
27	0	0	0	0		
28	0	0	0	0		
29	0	0	0	0		
30	0	0	0	0		
31	0	0	0	0		
32	0	0	0	0		
33	0	0	0	0		
34	0	0	0	0		
35	0	0	0	0		
36	0	0	0	0		
37	0	0	0	0		
38	0	0	0	0		
39	0	0	0	0		
40	0	0	0	0		
41	0	0	0	0		
42	0	0	0	0		
43	0	0	0	0		
44	0	0	0	0		
Total	**450**	**114.25**	**153**	**182.75**		
Total to Pass	**440**	**53.38**	**67.75**	**101.13**		

Requires: "Design, Operation, and Maintenance Plan"

Requires: "Supporting Documentation

359, Mallard Bay, Max

Site Placement



No Well within 200'
No Public Use within 4001'
No Wetlands within 2500'
No HQ & Protected Water within 2000'

Date: 2/25/22
[redacted]d Bay
[redacted]n County, IA
Section 16, T88N, R22W

Grower : 359, Mallard Bay, Max
Farm : Mallard Bay Placement
Field : Distances

pinnacle
620 Country Club Road
Iowa Falls, Iowa 50126
Office: 641.648.7300
Fax: 641.648.7310
www.pinnacleiowa.com

Distance to CAFOs (in)
- 4621
- 5172
- 4528
- 1478
- 2639
- 4468

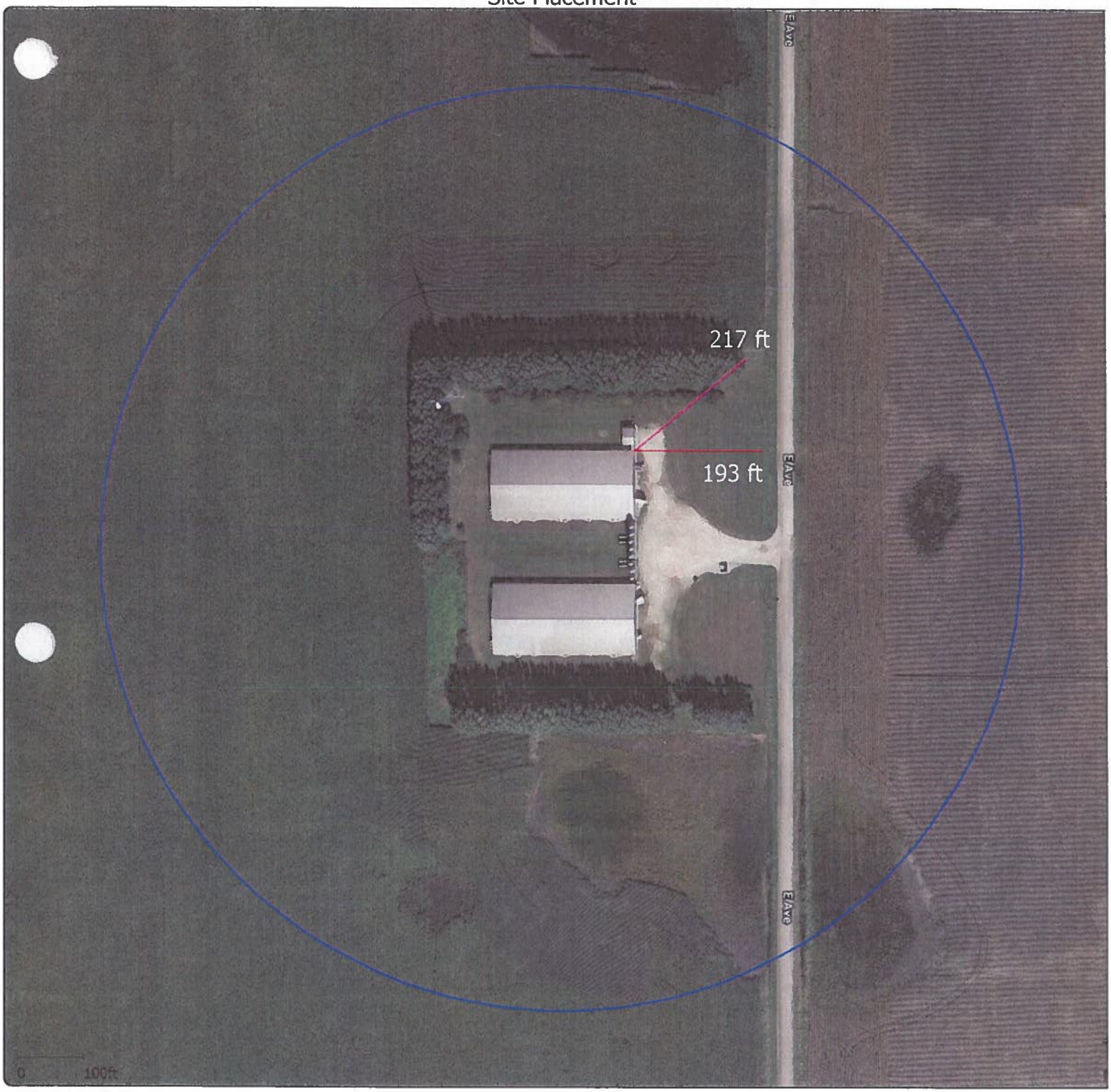
Distance to Water (ft)
- 4394

Distance to Residence (ft)
- 2803
- 3053
- 5224
- 4928
- 3663

1 Mile Buffer

359, Mallard Bay, Max

Site Placement



No Well within 200'
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Date: 2/25/22
M[illegible]d Bay
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Distance to ROW (ft)
193

Distance to Well (ft)
217

500 Ft Water Buffe

Design, Operating, & Maintenance Plans & Supporting Documentation

SITE NAME – Mallard Bay

Master Matrix #1
The swine facility is located an additional **928 feet**, above the required **1,875 feet**, away from the closest residence not owned by the owner of the confinement feeding operation, Hospital, Nursing Home, and Licensed or registered child care facility. Refer to site map.
Credits of **65** pts have been counted in the Master Matrix for **Item 1**.

Master Matrix #2
The swine facility is located at least an additional **2501 feet,** above the required **2500 feet**, away from the closest Public Use Area; defined as 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. Refer to site map.
Credits of **30** pts have been counted in the Master Matrix for **Item 2**.

Master Matrix #3
The swine facility is located at least an additional **1501 feet**, above the required **1,875 feet**, away from the closest Educational Institute, Religious Institution, or Commercial Enterprise. Refer to site map.
Credits of **30** pts have been counted in the Master Matrix for **Item 3**.

Master Matrix #4
The swine facility is located an additional **3894 feet**, above the required **500 feet**, away from the closest water source. Refer to site map.
Credits of **30** pts have been counted in the Master Matrix for **Item 4**.

Master Matrix #6
The swine facility is located an additional **500 feet**, above the required **2,500 feet**, away from the closest critical public area. Refer to site map.
Credits of **10** pts have been counted in the Master Matrix for **Item 6**.

Master Matrix #7
The manure storage structure will not be within 200' to the closest "deep", or 400' to the closest "shallow" public and private drinking water well.
Credits of **30** points have been counted in the Master Matrix for **Item 7**

Master Matrix #8
The swine facility is located an additional **2501 feet**, above the required **1,000 feet**, away from the closest Agricultural drainage well, known sinkhole, or major water source. Refer to site map.
Credits of **50** pts have been counted in the Master Matrix for **Item 8**.

Master Matrix #10

The swine facility is located at lease two times the minimum separation distance of **1000 feet**, from the closest high quality water, high quality resource water, or protected water areas. Refer to site map.

Credits of **30** pts have been counted in the Master Matrix for **Item 10**.

Master Matrix #12

Points: We are claiming 30 points because this Manure Storage Structure has a cover. Iowa Code states that "a formed manure storage structure directly beneath a floor where animals are housed in a confinement feeding operation is deemed to be covered." On this Site the building roof is the cover.

Design: The site consists of **2** swine finishing buildings that have manure storage pits directly beneath the roof and floor where the pigs are housed, as required by DNR rules to be considered covered liquid manure storage. The roof has been designed and warranted using ribbed painted, or galvanized steel to withstand appropriate snow and wind loads for **Hardin** County, Iowa.

Operation: The roof is part of the Structure and has no moving parts, therefore it does not require an operating plan.

Maintenance: Each building's roof and floor will be maintained to provide coverage of the manure storage structure. Maintenance of this cover will be minimal since it consists of steel. This facility will have a caretaker on site and in the buildings daily, if there is evidence of storm damage, or any holes/water leaks, which would be evidence of a hole; if found, they will be immediately repaired with appropriate materials to achieve as-built condition.

Credits of **30** points have been counted in the Master Matrix for **Item 12**.

Master Matrix # 17

Points: We are claiming 30 points because the manure storage structure is formed. The pit is "cast in place" reinforced concrete.

Design: The site utilizes an 8' deep cast in place reinforced concrete pit. The reinforced cast in place structure meets requirements of Chapter 65 for manure storage, the housing of swine, and the support of roof, slats and walls. Tables for steel grade, size and spacing are reviewed by a DNR engineer through the permitting process. Wall and floor thickness, concrete strength, backfill soil categories, and traffic patterns are also reviewed. There will be a wall poured over an approved footing and floor incorporating a water stop that prevents infiltration/exfiltration. Refer to the Construction Design Statement for specifics. The Construction Design Statement has been completed and signed by the building contractor and contains a Construction Certification stating that it was designed in accordance with DNR rules.

Operation: The Manure Storage Structure is static and has no moving parts. The pit will be cleaned and inspected before animals are placed in building looking for any defects, such as cracks or honeycombing, and will be repaired to industry standards. The facility will be operated as a below building concrete pit. There will be a Caretaker on site and in the buildings daily, and will visually monitor manure levels. In addition water usage meters are routinely monitored by the caretaker to insure the ample water supply to pigs, and will also be used to identify excessive usage or leaks. The concrete walls of the manure storage pit are designed for heavy equipment to be operated no less than 5 feet

from the walls. The pump-out pits are designed to allow heavy equipment to be operated closer than 5 feet, and are constructed using stronger design specifications.
Perimeter Tile are requirement of this CDS and every tile outlet will have a monitoring location consisting of either a monitoring port including a valve in case of leak, or an outlet to the surface.

Maintenance: Due to the concrete design and specifications for the formed structure, maintenance is expected to be minimal for this structure. As a requirement of the CDS all concrete will be cured to minimize shrinking and cracking. Approximately 12" of pit will be exposed above the soil surface. There will be a Caretaker on site and in the buildings daily, and will routinely looking for cracks in the walls. The building contractor will be notified if any cracking is discovered.

The Caretaker will make routine observations of the perimeter footing tile discharge point, or monitoring port for signs of contamination; such as manure odor, visual discoloration, excessive liquid in the tile during dry periods, and dead foliage. If contamination is observed, an immediate investigation will be conducted to locate the source and the problem will immediately be corrected. A groundwater and/or structural expert will direct the investigation, and the investigation will include closing the tile shutoff valve and taking water samples for visual and laboratory analysis.

Initial Settling of soils will be monitored and corrected to eliminate standing water next to the manure storage structure.

Credits of **30** pts have been counted in the Master Matrix for **Item 17.**

Master Matrix # 19
Design: The site will have a truck turnaround area at least 120 feet in diameter and adequately surfaced for traffic in inclement weather. The site will have a truck turnaround area allowing the trucks to pull in to the site completely off of the road and turn around.
Operation: The driveway will be operated to provide for safe entrance and exit to the property for delivery vehicles and not obstruct the public thoroughfare.
Maintenance: The driveway will be maintained to a level that will support regular truck traffic. The driveway will be constructed with a 2-3 inch base. Road rock gravel will be used as a road surface that will be monitored for the purposes of leveling, filling potholes, and adequate snow removal.
Credits of **20** pts have been counted in the Master Matrix for **Item 19**.

Master Matrix #20
The construction permit applicant has no history of Administrative Orders in the last five years at any site in which the applicant has any interest.
Credits of **30** pts have been counted in the Master Matrix for **Item 20**.

Master Matrix #24

The facility has a capacity of **2001 to 3000** animal units. Refer to Construction Permit Application, page 3.

Credits of **10** pts have been counted in the Master Matrix for **Item 24**.

Master Matrix #25

Design: The buildings on the site will utilize a wet/dry feeder, dry feeder with watering cups, or swinging nipples. Industry wide accepted data shows significant water savings from any of the three options as compared to a gate mounted watering nipple. Please refer to the attached scientific article illustrating the water savings and benefits any of the three methods mentioned above.

Operation: Feeders, watering cups, or swinging nipples will be adjusted to reduce waste and optimize feed efficiency for the facility. The water savings result in reducing the gallons of water in the pit that later has to be hauled out onto farm fields.

Maintenance: The feeders, watering cups, or swinging nipples will be inspected on a regular basis and adjusted as needed. Water flow will be monitored and adjusted to control waste and excess manure volume.

Credits of **25** pts have been counted in the Master Matrix for **item 25**.

Master Matrix # 26 "e"

All manure will be injected or incorporated on the same date that it is applied.

Credits of **30** pts have been counted in the Master Matrix for **Item 26e**.

Original research

Impact of feeders and drinker devices on pig performance, water use, and manure volume

Michael C. Brumm, MS, PhD; James M. Dahlquist, MS; Jill M. Heemstra, MS

Summary

Objective: To determine the impact of feeder and drinker designs on pig performance, water use, and manure volume.

Methods: Experiment One compared a wet/dry feeder to a dry feeder with wall-mounted nipple drinker. Experiment Two compared a swinging nipple drinker to a gate-mounted nipple, and Experiment Three compared a bowl drinker to the swinging drinker of Experiment Two. In all experiments, pigs were housed in pens of 20–24 pigs per pen in partially slatted, mechanically ventilated facilities.

Results: In Experiment One, water disappearance (L per pig per day) was 4.49 for the wet/dry feeder versus 6.06 for the dry feeder plus nipple drinker. In Experiment Two, water disappearance was 4.90 L per pig per day for the swinging drinker versus 5.50 for the gate-mounted drinker. In Experiment Three, water disappearance was 3.78 for the bowl versus 5.01 for the swinging drinker. Summer manure production in Experiment One was 4.96 L per pig per day for the wet-dry feeder versus 7.02 for the nipple drinker. Winter manure production was 3.96 L per pig per day for the swinging drinker versus 4.59 for the nipple drinker in Experiment Two.

Implications: These results document the wide range in water use and manure volume associated with feeder and drinker devices installed in swine facilities. They also suggest lower amounts of total water use and manure volume than those currently cited in the literature or used by regulatory officials.

For the overall experiment, pigs on wet/dry feeders used 1 kg of water less per kg of feed than did pigs on the conventional system.

The overall W:F ratio was lowest for the wet/dry feeder (1.78; Experiment One) and similar to the bowl drinker (1.89; Experiment Three).

In observations consistent with ours in Experiment One, Maton and Daelemans[14] concluded that all wet feeders included in their experiments reduced water spillage so that water consumption was only 70%–80% of that observed from conventional feeders and nipple drinkers. In addition, slurry (manure) volume was reduced by 20%–30% in their study.

Table 2: Manure production

	Experiment One (summer)		Experiment Two	
	Dry	Wet/dry	Swing	Nipple
Per pig per day				
Volume	7.02 L (1.85 gal)	4.96 L (1.31 gal)	3.96 L (1.05 gal)	4.59 L (1.21 gal)
Mass*	7.0 kg (15.4 lb)	4.9 kg (10.8 lb)	3.9 kg (8.6 lb)	4.5 kg (9.9 lb)
Per 1000 kg bodyweight				
Mass	109 kg (240 lb)	76 kg (167 lb)	61 kg (134 lb)	70 kg (154 lb)

* 990 kg per m^3 (61.8 lb per cu. foot); ASAE[8]

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September 12, 2022

Re: Hardin Buckeye 25

Attached you will find a Permit Application and a revised Master Matrix for the Hardin Buckeye 25. The site owner has acquired the residence to the east of the site, so we have revised the matrix score to reflect this. This revision gives the site a final master matrix score of 450, which is 5 more points than the original master matrix. **Please note that there is no expansion happening at this site.**

We are requesting that the public notice states that there **is no expansion happening at the site** and the permit application is only being used to amend the original Master Matrix.

We will be attending the site visit with the DNR and we will attend the Supervisor Meeting and any public hearings. Please sign the enclosed county verification and fax back to 641-648-7310 or e-mail to jean@pinnacleiowa.com.

We apologize for the inconvenience. Please call us if you have any questions at 641-648-7300.

Thank You,

Kent Krause

Kent Krause
Cell 515-571-7816

Please staple check here

Iowa Department of Natural Resources

Construction Permit Application Form

Confinement Feeding Operations

INSTRUCTIONS:

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

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

THIS APPLICATION IS FOR:

1. ☐ A new confinement feeding operation
2. ☒ An existing confinement feeding operation *(answer all of the following questions):*
   a) Facility ID No. (5 digit number): 71810
   b) Date when the operation was first constructed: under construction Separation distance table used: 6
   c) Date when the last construction, expansion or modification was completed: _____

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

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

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

A) Name of operation: Hardin Buckeye 25

Location:

SW	SE	25	T88N R22W	Buckeye	Hardin
(¼ ¼)	(¼)	(Section)	(Tier & Range)	(Name of Township)	(County)

B) Applicant information:

Name: Summit Farms Pork, LLC Title: _____

Address: 10640 Co Hwy D20, Alden, IA 50006

Telephone: 515-854-9820 Fax: _____ Email: _____

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

Name: Kent Krause Title: _____

Address: 620 Country Club Rd., Iowa Falls, IA 50126

Telephone: 641-648-7300 Fax: _____ Email: _____

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

☐ I manage or have a 10% or more ownership interest in another confinement feeding operation located within 2,500 feet of the proposed site. Please contact the DNR AFO Program staff at (712) 262-4177 to verify site adjacency requirements.

[1] Confinement feeding operation structure = animal feeding operation structure (confinement building, manure storage structure or egg washwater storage structure) that is part of a confinement feeding operation. Manure storage structures include formed and unformed manure storage structures.
[2] Formed manure storage structure = covered or uncovered concrete or steel tanks, and concrete pits below the building.

ITEM 2 – SITING INFORMATION:

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

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

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

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

ITEM 3 – OPERATION INFORMATION:

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

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

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

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

We are modifying the master matrix score to remove the well separation distance and tree requirements.

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

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

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

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

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

A) Calculating AUC – Required for all operations

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

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

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

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

Animal Species	a) Existing AUC (Before permit)			b) Total AUC (After permit)		
	(No. Head)	x (Factor)	= AUC	(No. Head)	x (Factor)	= AUC
Slaughter or feeder cattle		1.0			1.0	
Immature dairy cattle		1.0			1.0	
Mature dairy cattle		1.4			1.4	
Gestating sows		0.4			0.4	
Farrowing sows & litter		0.4			0.4	
Boars		0.4			0.4	
Gilts		0.4			0.4	
Finished (Market) hogs	4999	0.4	4999	4999	0.4	1999.6
Nursery pigs 15 lbs to 55 lbs		0.1			0.1	
Sheep and lambs		0.1			0.1	
Goats		0.1			0.1	
Horses		2.0			2.0	
Turkeys 7 lbs 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	
Ducks		0.04			0.04	
Fish 25 grams or more		0.001			0.001	
Fish less than 25 grams		0.00006			0.00006	
TOTALS:		a) Existing AUC:	1999.6	b) Total proposed AUC:		1999.6

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

c) New AU = b) - a): 0

(This is the AUC of the operation)

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

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

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

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

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

Animal Species	a) Existing AWC (Before Permit)			b) Proposed AWC (After permit)		
	(No. head) x	avg weight	= AWC	(No. head) x	avg weight	= AWC
Slaughter or feeder cattle						
Immature dairy cattle						
Mature dairy cattle						
Gestating sows						
Farrowing sows & litter						
Boars						
Gilts						
Finished (Market) hogs						
Nursery pigs 15 lbs to 55 lbs						
Sheep and lambs						
Goats						
Horses						
Turkeys 7lbs or more						
Turkeys less than 7 lbs						
Broiler/Layer chickens 3 lbs or more						
Broiler/Layer chickens less than 3 lbs						
Ducks						
Fish 25 grams or more						
Fish less than 25 grams						
TOTALS:		a) Existing AWC:		b) Total proposed AWC:		

c) New AWC = b) - a):

(This is the AWC of the operation)

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

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

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

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

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

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

ITEM 6- UTILIZING RURAL WATER SYSTEM FOR WATER SUPPLY

☐ The proposed facility will utilize rural water and the providing rural water system has been notified and is aware of the proposed increase in water use.

ITEM 7 – SIGNATURE:

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

Signature of Applicant(s): X _____ Date: 9/12/22

_____ _____

MAILING INSTRUCTIONS:

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

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

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

Questions

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

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

ITEM 8

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
Bruce Rastetter	10640 Co Hwy D20	Alden, IA	50006
Summit Farms Pork, LLC	10640 Co Hwy D20	Alden, IA	50006

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

Operation Name	Location (¼ ¼, ¼, Section, Tier, Range, Township, County)	City
☐ **None** [There are no other confinements in Iowa in which the above listed person(s) has or have an interest].		
See Attached		

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

Signature of Applicant(s): X _____ Date: 9/12/22

_____ _____

Confined Feeding Operations - Summit Farms
8/18/2022

Site Name	DNR Number	Location (1/4 1/4 Sec, 1/4 Sec, Sec, Twp, Range, County)	City
AA Ave	61421	NE, NE, & SE, NW, 29,& NE, SW, & SE, SW 20, T-89-N, R-22-W, Hardin	Alden
A & W Site	67013	SE, NE, 1, T-93-N, R-33-W, Pocahontas	Mallard
B55 Site	65697	NE, NW, 31, T-95-N, R-32-W, Palo Alto	Mallard
Beaver Bay	65380	NE, NW, 33, T-94-N, R-32-W, Palo Alto	Mallard
Birch Site	67308	NE, SE, 6, T-96-N, R-26-W, Hancock	Wesley
Blairsburg 1	67738	NW ,NW, 1, T-89-N, R-24-W, Hamilton	Blairsburg
Poplar Grove	70467	NE, NE, 21, T-89-N, R-24-W, Hamilton	Blairsburg
Blairsburg 23	70314	NW, NW, 23, T-89-N, R24-W, Hamilton	Blairsburg
Boothill Cattle	64885	NW, NE, 26, T-89-N, R-23-W, Hamilton	Williams
Brannigan Site	67014	NE/NW, NE, 23, T-91-N, R-34-W, Pochahontas	Fonda
Brinks	67351	SW, SE, 32, T-94-N, R-32-W, Palo Alto	Mallard
Buckeye Finisher	58324	NW, SE, 24, T-88-N, R-22-W, Hardin	Alden
Buckeye 21	67918	SE, NE, 21, T-88-N, R-22-W, Hardin	Alden
Buckeye 27	67909	SW, NW, 27, T-88-N, R-22-W, Hardin	Alden
Buffalo 11	70505	SE, SW, 11, T-99-N, R-29-W, Winnebago	Buffalo Center
Burt 21 E	71743	SE, SE, 21, T-97-N, R-29-W, Kossuth	Lone Rock
Burt 21 W	71732	SE, SW, 21, T-97-N, R-29-W, Kossuth	Lone Rock
Caribou	63820	SW, NW, 7, T-92-N R-20-W, Franklin	Hampton
Circle Drive Site	59129	SW, SW, 33, T-97-N, R-25-W, Hancock	Britt
Concord 25	67909	NW, NE, 25, T-86-N, R-22-W, Hardin	Garden City
County Line Cattle	66728	SE, NE, 5, T-89-N, R-22-W, Hardin	Alden
Crystal 5	70446	SE, NE, 5, T-97-N, R-25-W, Hancock	Crystal Lake
Crystal-Ladd	63984	SE, NE, 35, T-97-N, R-25-W, Hancock	Crystal Lake
Crystal-Maple	63983	SE, NE, 25, T-97-N, R-25-W, Hancock	Crystal Lake
Cummins North	65111	SE, SW, 16, T-93-N, R-33-W, Pocahontas	Havelock
Cummins South	65112	SW, SE, 32, T-93-N, R-33-W, Pocahontas	Havelock
Deer Site	67253	SW, SW, 22, T-97-N, R-26-W, Hancock	Woden
Denmark 13	70131	SW, SE, T-98-N, R-31-W, Emmet	Ringsted
Denmark 18	71635	SE, SE, 18, T-98-N, R-31-W, Emmet	Ringsted
Denmark 24	70513	SE, SE, 24, T-98-N, R-31-W, Emmet	Ringsted
Denmark 20	71610	SE, SW, 20, T-98-N, R-31W, Emmet	Ringsted
Denmark 30	71717	SE, SW, 30, T-98-N, R-31-W, Emmet	Ringsted
Denmark 32	70337	NW, NE, 32, T-98-N, R-31-W, Emmet	Ringsted
Denmark 35	71614	NE, SE, 35, T-98-N, R-31-W, Emmet	Ringsted
Dorweiler Finisher	64651	SE, NW, 04, T-94-N, R-30-W, Kossuth	West Bend
Dreier	57789	SW, SW, 8, T-92-N, R-18-W, Butler	Dumont
E & F Pork	63402	SW, NW, 20, T-100-N, R-21-W, Worth	Northwood
Eagle 1	57826	SW, SE, 11, T-91-N, R-26W, Winnebago	Eagle Grove
Eagle 2	58151	SW, NE, 22, T-92-N, R-22-W, Franklin	Latimer
Eagle 3	59355	NW, NE, 33, T-99-N, R-23-W, Winnebago	Lake Mills
Eagle 5	59515	SW, NW, 35, T-100-N, R-24-W, Winnebago	Leland
Eagle 7	65871	SW, NW, 8, T-98-N, R-23-W, Winnebago	Forest City
Eagle 8	65304	SE, SW, 15, T-99-N, R-24-W, Winnebago	Leland
Eagle 9	65916	NE, SE, 29, T-99-N, R-23-W, Winnebago	Lake Mills
Eagle 10	68889	NE, NW, 24, T-99-N, R-25W, Winnebago	Thompson
Eagle 11	66996	SE, NE, 32, T-99-N, R-23-W, Winnebago	Lake Mills
Eagle 12	66997	NW, NE, 32, T-99-N, R-23-W, Winnebago	Lake Mills
Eagle 13	69465	SW, SW, 9, T-97-N, R-24-W, Hancock	Forest City
Eagle 14	71067	NE, SW, 7, T-99-N, R-24-W, Winnebago	Thompson
Eagle 15	71616	NE, SE, 22, T-100-N, R-24-W, Winnebago	Scarville
Echo Site	67254	SE, SE, 22, T-97-N, R-26-W, Hancock	Woden
Eden 27	50478	SW, SW, 27, T-100-N, R-25-W, Winnebago	Thompson
Elk Site	64625	SW, SE, 16, T-89-N, R-22-W, Hardin	Alden
Ellington	64723	SE, SE, 9, T-94-N, R-32-W, Palo Alto	Mallard
Ellington West	65205	SW, SE, 29, T-94-N, R-32-W, Palo Alto	Mallard
Faris	64744	SE, SE, 8, T-86-N, R-20-W, Hardin	New Providence
Fern Valley 9	71711	NW, NW, 9, T-95-N, R-31-W, Palo Alto	Whittemore
Finch Site	59664	SE, SE, 35, T-93-N, R-22-W, Wisner, Franklin	Alexander
Freedom 12	71753	NW, SW, T-96-N, R-32-W, Palo Alto	Emmetsburg
Freedom 34	70385	NW, NW, 34, T-96-N, R-32-W, Palo Alto	Emmetsburg
Fox Site	71379	NW, NE, T-89-N, R-23-W, Hamilton	Williams
Garfield 4	71735	SE, SW, 4, T-94-N, R-30-W, Kossuth	West Bend
Garfield 10	71716	NE, NW, 10, T-94N, R-30-W, Kossuth	West Bend
Garfield-Nash	63982	NE, NW, 7, T-96-N, R-24-W, Hancock	Garner
Great Oak 26	70441	NE, SE, 26, T-95-N, R-33-W, Palo Alto	Curlew
Grant 27 Site	71475	SW, NW, 27, T-98-N, R-26-W, Winnebago	Buffalo Center
Hardin Site	61516	SW, SE, 21, T-89-N, R-22-W, Hardin	Alden
Hardin Buckeye 25	71810	SW, SE, 25, T-88-N, R-22-W, Hardin	Hubbard

Hill Site	58935	NW, NE, 6, T-96-N, R-25-W, Hancock	Britt
Himl	64526	SW, SW, 28, T-89-N, R-22-W, Hardin	Alden
Humboldt 23	67815	NW, NE, 23, T-93-N, R-28-W, Humboldt	Livermore
Independence 1	67797	SE/SW, SE, 1, T-88-N, R-25-W, Hamilton	Webster City
Irvington 25	71703	NE, NW, 25, T-95-N, R-28-W, Kossuth	Lu Verne
Irvington 23	65348	NE, SW, 23, T-95-N, R-28-W, Kossuth	Lu Verne
J & M site	61534	NW, SW, 25, T-95-N, R-28-W, Kossuth	Lu Verne
J Ave	63981	NE, SE, 32, T-88-N, R-21-W, Hardin	Hubbard
Jack Creek 23	71663	SE, SE, 23, T-98-N, R-32-W, Emmet	Ringsted
Jack Creek 26	70408	NW/NE, NW, 26, T-98-N, R-32-W, Emmet	Ringsted
James Site	63346	NE, NE, 4, T-96-N, R-25-W, Hancock	Britt
Johnson	63778	NW, SW, 21, T- 88-N, R-21-W, Hardin	Buckeye
Kohl South Site	62463	NE, NE, 27, T-88-N, R-24-W, Hamilton	Kamrar
Kurt Wolf Site	58535	SE, SE, 04, T-92-N, R-19-W, Franklin	Hampton
Lake Farm	57791	NW, NE, 32, T-88-N, R-21-W, Hardin	Iowa Falls
Lark Site	57744	NE, SE, 11, T-92-N, R-21-W, Franklin	Hampton
Little Wall Site	59222	SW, NE, 23,T-89-N, R-24-W, Hamilton	Blairsburg
Lincoln 36	67737	NE, SE, 36, T-87-N, R-23-W, Hamilton	Radcliffe
Linden 7	71420	SW, SW, 7, T-98-N, R-25-W, Winnebago	Forest City
Luverne 7	65326	SE, SW, 7, T-94-N, R-27-W, Kossuth	Lu Verne
Miller Feedlot	68334	NW, NE, 19, T-89-N, R-22-W, Hardin	Alden
Nevada Site	64724	NE, SE, 33, T-95-N, R-32-W, Palo Alto	Mallard
Nevada 4	50536	SE, NE, 4, T-95-N, R-32W, Palo Alto	Emmetsburg
Cylinder Creek	50536	SE, SW, 11, T-95-N, R-32W, Palo Alto	Emmetsburg
Newton 28	71371	NW, SW, 28, T-99-N, R-24-W, Winnebago	Leland
Norske 1	62918	SE, SE, T-99-N, R-27-W, Kossuth	Buffalo Center
North Tipton Ridge	65214	NE, NW, 20, T-87-N, R-21-W, Hardin	Hubbard
Norway 10	70306	SW, SW, 10, T-100-N, R-23-W, Winnebago	Lake Mills
Norway 10 East	71744	SW, SE, 10, T-100-N, R-23-W, Winnebago	Lake Mills
Oak Site	65973	SW, NW, 8, T-96-N, R-24-W, Hancock	Garner
Oakland Site	61420	NE, NE, 32, T-90-N, R-22-W, Franklin	Alden
Oakland 10	67910	SW, NW, 22, T-90-N, R-22-W, Franklin	Dows
Olsen Ave Site	50034	NE, NE,29, T-89-N, R-24-W, Hamilton	Blairsburg
Pacific Rail	63952	SW, SE, 35, T-88-N, R-22-W, Hardin	Hubbard
Patriot Site	68963	NW, SW, 31, T-90-N, R-22-W, Franklin	
Plum Creek 36	67810	NE, NE, 36, T-96-N, R-28-W, Kossuth	Wesley
Providence 36	68849	SW, NE, 36,T-86-N, R20-W, Hardin	New Providence
Red Barn	61423	NE, NW, 19, T-89-N, R-22-W, Hardin	Alden
Rehm Site	60772	SW, NE, 28, T-90-N, R-21-W, Franklin	Alden
Rouse Site	61525	NW, NW, 10, T-94-N, R-34-W, Palo Alto	Curlew
Robinson Site	67088	SE, SE, 13, T-88-N, R-22-W, Hardin	Alden
Sac Cedar 6	71828	NE, NE, 6, T-88-N, R-35-W, Sac	Sac City
Scott 30	67809	NE, NE, 30, T-94-N, R-18-W, Floyd	Dougherty
Seneca 19	70511	SW, NW, 19, T-98-N, R-30-W, Kossuth	Ringsted
Sherman 9	71668	NW, SW, 9, T-94-N, R-28-W, Kossuth	Lu Verne
Sherman 35	71822	NW, SE, 35, T-92-N, R-33-W, Pocahontas	Pocahontas
South Tipton Ridge	65215	SW, SE, 20, T-87-N, R-21-W, Hardin	Hubbard
Springfield 13	71763	SW, SW, 13, T-100N, R-28-W, Kossuth	Ledyard
Staley Finishers	58321	SE, SE, 11, T-88-N, R-22-W, Hardin	Alden
Sunray Pork 1	65747	SW, SE, 11, T-93-N, R-21-W, Franklin	Sheffield
Sunray Pork 2	65881	NE,NW, 13, T-94-N, R-23-W, Hancock	Meservey
Sunray Pork 3	66172	NW, NW, 13, T-95-N, R-23-W, Hancock	Garner
Sunray Pork 4	66060	SW, NW, 25, T-91-N, R-21-W, Franklin	Hampton
Sunray Pork 5	66207	NE, NE, 31, T-93-N, R-19-W, Franklin	Hampton
Sunray Pork 6	65852	SE, SW, 22, T-94-N, R-22-W, Cerro Gordo	Thornton
Swan Lake 34	67654	SE, NE, 34, T-99-N, R-32-W, Emmet	Ringsted
Swea 32 North	70516	NW, NE, 32, T-99-N, R-30-W, Kossuth	Armstrong
Swea 32 South	70593	NW, SW, 32, T-99-N, R-30-W, Kossuth	Armstrong
Thorpe Site	65602	SE, SE, 14, T-97-N, R-25-W, Hancock	Britt
Triangle Beef	63324	NW, NW, 27, T-89-N, R-22-W, Hardin	Alden
Vail	64527	NE, NE, 33, T-97-N, R-23-W, Hancock	Garner
Vernon 2	67759	NW, SW, 2, T-97-N, R-32-W, Palo Alto	Graettinger
Vernon 10	70676	SE, SW, 10, T-97-N, R-32-W, Palo Alto	Graettinger
Vernon 12	70470	NE, NE, 12, T-97-N, R-32-W, Palo Alto	Graettinger
Vernon 12 W	71497	SW, NW, 12, T-97-N, R-32-W, Palo Alto	Graettinger
Vernon 22	70678	SW, NW, 22, T-97-N, R-32-W, Palo Alto	Emmetsburg
Walnut 13	67753	SE, NE, 13, T-97-N, R-33-W, Palo Alto	Emmetsburg
Ward Site	65248	SW, NW, T-92-N, R-33-W, Pocahontas	Pocahontas
Weber Site	64647	SW, SE, 21, T-95-N, R-30-W, Kossuth	Whittemore
Wickman Site	61640	SE, SE, 26, T-94-N, R-32-W, Palo Alto	Rolfe
Williams 15	70015	NW/NE, NW, 15, T-89-N, R-23-W, Hamilton	Williams
Whittemore 23	71736	SE SW, 23, T-95-N, R-30-W, Kossuth	Whittemore
Wirtz	67282	SW, SE, 2, T-94-N, R-32-W, Palo Alto	Mallard
Young Finisher	61425	NW, SW, 18, T-89-N, R-21-22-W, Hardin	Alden

ITEM 9

Manure Storage Indemnity Fee Form for Construction Permits

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

Credit fees to: Summit Farms Pork, LLC

Name of operation: Hardin Buckeye 25

INSTRUCTIONS:

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

- **Example 1**: An existing swine operation is expanding from an 'Existing AUC' of 1,000 AU to a 'Total Proposed AUC' of 1,800 AU, and has previously paid an indemnity fee for the existing 1,000 AU. Calculate the indemnity fee as follows: The 'Total Proposed AUC' is between 1,000 AU and 3,000 AU; the animal specie is other than poultry; enter 800 AU in the 'New AU' column, row 4, and multiply it by $ 0.15:

  (800 AU) x ($ 0.15 per AU) = $ 120.00

- **Example 2**: An existing poultry operation is expanding from an 'Existing AUC' of 250 AU to a 'Total Proposed AUC' of 2,000 AU and has not paid the indemnity fee for animals housed in the existing buildings. Calculate the indemnity fee as follows: The 'Total Proposed AUC' is between 1,000 AU and 3,000 AU; the animal specie is poultry and the indemnity fee has not previously been paid, enter 2,000 AU in the 'New AU' column on row 3, and multiply it by $0.06:

  (2,000 AU) x ($ 0.06 per AU) = $ 120.00

- **Example 3**: If you are proposing a new swine confinement feeding operation with a 'Total Proposed AUC' of 3,500 AU, enter 3,500 AU in the 'New AU' column, row 6 and multiply it by $ 0.20:

  (3,500 AU) x ($ 0.20 per AU) = $ 700.00

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

Indemnity Fee Table:

Total Proposed AUC (After Permit (from column B, Table 1)	Row	Animal species	New AU (from column C Table 1)	x	Fee per AU	Indemnity Fee
Less than 1,000 AU	1	Poultry		x	$ 0.04 =	
	2	Other		x	$ 0.10 =	
1,000 AU or more to less than 3,000 AU	3	Poultry		x	$ 0.06 =	
	4	Other	0	x	$ 0.15 =	0
3,000 AU or more	5	Poultry		x	$ 0.08 =	
	6	Other		x	$ 0.20 =	

ITEM 9 (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: Summit Farms Pork, LLC

Name of operation: Hardin Buckeye 25

INSTRUCTIONS:

1. If the operation is applying for a construction permit enclose a payment for the following:
   ☒ Construction application fee $250.00.
   (Note: This fee is non-refundable)

2. A manure management plan must be submitted with a filing fee.
   ☒ Manure management plan filing fee $250.00
   (Note: This fee is non-refundable)

3. If this is a change in ownership then indemnity fees must also be paid on the current (existing) total AUC at the appropriate rate on page 7.
   ☐ Indemnity fee due to ownership change $ _____

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

SUMMARY:

- Manure Storage Indemnity Fee (see previous page) to be deposited in the Manure Storage Indemnity Fee Fund (474)	$	0
- Total filing fees (see item 4 on this page) to be deposited in the Animal Agriculture Compliance Fund (473)	$	500.00
TOTAL DUE:	$	500.00

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

ITEM 10

COUNTY VERIFICATION RECEIPT OF DNR CONSTRUCTION PERMIT APPLICATION

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

Applicant: Summit Farms Pork, LLC Telephone: 515-854-9820

Name of operation: Hardin Buckeye 25

Location:	SW	SE	25	T88N R22W	Buckeye	Hardin
	(¼ ¼)	(¼)	(Section)	(Tier & Range)	(Name of Township)	(County)

Documents being submitted to the county:

- [x] Construction permit application form: submit items 1 to 9 (see Submittal Checklist No. 1 or 2)
- [x] Attachment 1 - Aerial photos: Must clearly show the location of the proposed confinement feeding operation structure[1] and that all the separation distances are met, including those claimed for points in the master matrix (if applicable).
- [ ] 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[3] or an egg washwater storage structure submit documentation required in Addemdum "A" of this construction application form.
- [ ] Attachment 3 - Manure management plan (MMP).
- [x] Attachment 4 - Master Matrix (if required). You must include supporting documents (see Checklist No. 1 or 2)

Revised Documents: ☐ Application ☐ CDS ☐ Matrix ☐ MMP ☐ Other _____

THIS SECTION IS RESERVED FOR THE COUNTY

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

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

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

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

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

COUNTY: Hardin

NAME: Ashley Klatte

TITLE: Accounts Payable

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

Date: Sept 15 , 20 22 .

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

Hardin Buckeye 2S - Matrix Revision

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" subcategory.

1. Additional separation distance, above minimum requirements, from proposed confinement structure to the closest:
   * Residence not owned by the owner of the confinement feeding operation,
   * Hospital,
   * Nursing home, or
   * Licensed or registered child care facility.

2683-1875 = 808'

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

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

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

2500+501 = None within 4001'

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

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

3. Additional separation distance, above minimum requirements, from proposed confinement structure to the closest:
   * Educational institution,
   * Religious institution, or
   * Commercial enterprise.

2760 - 1875 = 885'

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

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

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

5684 - 500 = 5184

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

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

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

	Score	Air	Water	Community
300 feet or more	30	9.00		21.00

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

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

1500 + 500 = None within 3000'

	Score	Air	Water	Community
500 feet or more	10	4.00		6.00

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

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

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

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

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

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

1000+250' = None within 350'

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

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

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

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

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

10. Separation distance from proposed confinement structure to closest:

* High quality (HQ) waters,
* High quality resource (HQR) waters, or
* Protected water areas (PWA)

is at least two times the minimum required separation distance

1000x2 = None within 2000'

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

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

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

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

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

12. Liquid manure storage structure is covered.

	Score	Air	Water	Community
Covered liquid manure storage	30	27.00		3.00

(A) "Covered" - organic or inorganic material, placed upon an animal feeding operation structure used to store manure, which significantly reduces the exchange of gases between the stored manure and the outside air. Organic materials include, but are not limited to, a layer of chopped straw, other crop residue, or a naturally occurring crust on the surface of the stored manure. Inorganic materials include, but are not limited to, wood, steel, aluminum, rubber, plastic, or Styrofoam. The materials shall shield at least 90 percent of the surface area of the stored manure from the outside air. Cover shall include an organic or inorganic material which current scientific research shows reduces detectable odor by at least 75 percent. A formed manure storage structure directly beneath a floor where animals are housed in a confinement feeding operation is deemed to be covered.
(B) The design, operation and maintenance plan for the manure cover must be in the construction permit application and made a condition in the approved construction permit.

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

	Score	Air	Water	Community
Emergency containment area	20		18.00	2.00

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

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

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

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

15. Utilization of landscaping around confinement structure.

	Score	Air	Water	Community
Utilization of Landscaping	20	10.00		10.00

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

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

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

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

17. Proposed manure storage structure is formed

	Score	Air	Water	Community
Formed manure storage structure	30		27.00	3.00

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

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

	Score	Air	Water	Community
Aerated manure storage structure	10	8.00		2.00

(A) Aerobic structure - an animal feeding operation structure other than an egg wash water storage structure which relies on aerobic bacterial action which is maintained by the utilization of air or oxygen and which includes aeration equipment to digest organic matter. Aeration equipment shall be used and shall be capable of providing oxygen at a rate sufficient to maintain an average of 2 milligrams per liter dissolved oxygen concentration in the upper 30 percent of the depth of manure in the structure at all times.
(B) The design, operation and maintenance plan for the aeration equipment must be in the construction permit application and made a condition in the approved construction permit.

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

	Score	Air	Water	Community
Truck turnaround	20			20.00

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

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

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

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

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

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

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

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

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

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

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

	Score	Air	Water	Community
Family Farm Tax Credit qualification	25			25.00

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

24. Facility size. 4999 x .4 = 1999.6 AU

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

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

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

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

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

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

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

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

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

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

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

Proposed Site Operation and Manure Management Practices

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(A) The department will award points only for the single building, of the four listed above, closest to the proposed confinement feeding operation.
(B) Minimum separation distance for land application of manure injected or incorporated on the same date as application: 0 feet.
(C) Minimum separation distance for land application of manure broadcast on soil surface: 750 feet.
(D) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.
(E) "Licensed child care center" – a facility licensed by the department of human services providing child care or preschool services for seven or more children, except when the facility is registered as a child care home.
(F) "Registered child development homes" - child care providers certify that they comply with rules adopted by the department of human services. This process is voluntary for providers caring for five or fewer children and mandatory for providers caring for six or more children.
(G) A full listing of licensed and registered child care facilities is available at county offices of the Department of Human Services

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

36. Demonstrated community support.

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

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

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

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

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

	Score	Air	Water	Community
Manure management plan confidentiality waiver	5			5.00

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

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

	Score	Air	Water	Community
Economic value to local community	10			10.00

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

40. Construction permit application contains an emergency action plan.

	Score	Air	Water	Community
Emergency action plan	5		2.50	2.50

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

41. Construction permit application contains a closure plan.

	Score	Air	Water	Community
Closure Plan	5		2.50	2.50

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

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

	Score	Air	Water	Community
EMS	15	4.50	4.50	6.00

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

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

	Score	Air	Water	Community
CNMP	10	3.00	3.00	4.00

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

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

	Score	Air	Water	Community
Groundwater monitoring	15		10.50	4.50

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

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

Site: Hardin Buckeye 25-Matrix Revision

Date: 9/12/22

APPENDIX C
MASTER MATRIX

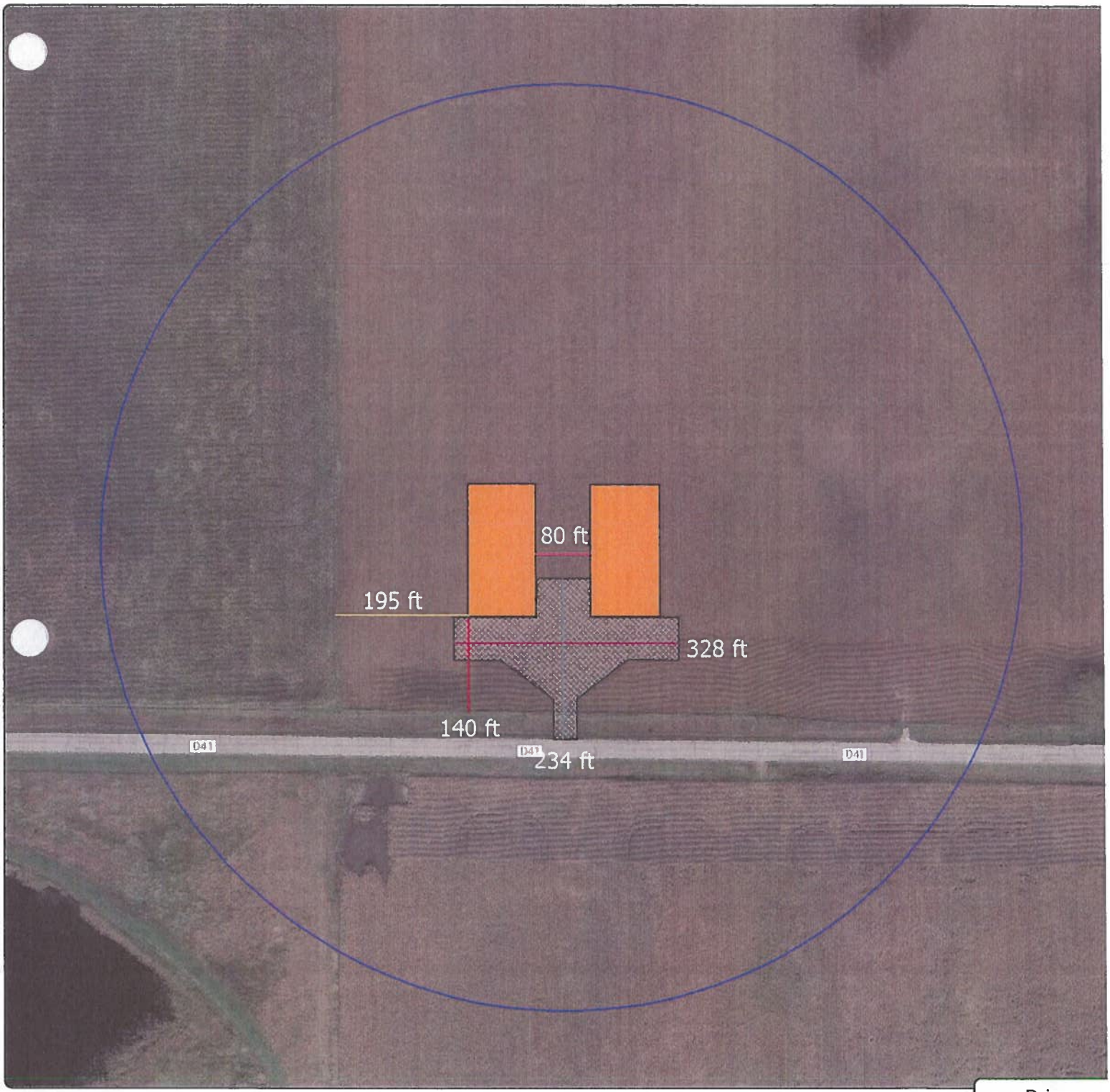
Question	Score	Air	Water	Community	
1	65	42.25	0	22.75	
2	30	12	0	18	
3	15	6	0	9	
4	30	0	30	0	
5	0	0	0	0	
6	10	4	0	6	
7	0	0	0	0	
8	50	5	25	20	
9	0	0	0	0	
10	30	0	22.5	7.5	
11	0	0	0	0	
12	30	27	0	3	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	30	0	27	3	
18	0	0	0	0	
19	20	0	0	20	
20	30	0	0	30	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	20	0	0	20	
25	25	0	12.5	12.5	
26	30	12	12	6	Only for: "b,c, or d" Only for: "a & e"
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	10	0	0	10	
38	0	0	0	0	
39	0	0	0	0	
40	5	0	2.5	2.5	
41	5	0	2.5	2.5	
42	15	4.5	4.5	6	
43	0	0	0	0	
44	0	0	0	0	
Total	**450**	**112.75**	**138.5**	**198.75**	
Total to Pass	**440**	**53.38**	**67.75**	**101.13**	

Requires: "Design, Operation, and Maintenance Plan"

Requires: "Supporting Documentation"

Hardin Buckeye 25

Site Placement



No Well within 100'
No Public Use within 4001'
No Wetlands within 2500'
No HQ & Protected Water within 2000'

Date: 9/12/22
[illegible]eye 25
[illegible]in County, IA
Section 25, T88N, R22W

Grower : Buckeye 25
Farm : Site Placement
Field : Distances

pinnacle
620 Country Club Road
Iowa Falls, Iowa 50126
Office: 641.648.7300
Fax: 641.648.7310
www.pinnacleiowa.com

Drive

Distance to Fence (ft)
140
195

Drive Dimensions (ft)
328
234

500 Ft Water Buffe

Distance Between Barns (ft)
80

Feature ID
Site

Hardin Buckeye 25

Site Placement

No Well within 100'
No Public Use within 4001'
No Wetlands within 2500'
No HQ & Protected Water within 2000'

Date: 9/12/22
[illegible]eye 25
[illegible]in County, IA
Section 25, T88N, R22W

Grower : Buckeye 25
Farm : Site Placement
Field : Distances

pinnacle
620 Country Club Road
Iowa Falls, Iowa 50126
Office: 641.648.7300
Fax: 641.648.7310
www.pinnacleiowa.com

Distance to CAFO (ft)
3388
3272

Distance to Residence (ft)
5062
3768
3635
4233
4031
2683

Distance to J&B Pork, LL (ft)
2760

Distance to Water (ft)
5684

1 Mile Buffer

Feature ID
Site

Design, Operating, & Maintenance Plans & Supporting Documentation

SITE NAME – Hardin Buckeye 25 -Revision

Master Matrix #1
The swine facility is located an additional **808 feet**, above the required **1,875 feet**, away from the closest residence not owned by the owner of the confinement feeding operation, Hospital, Nursing Home, and Licensed or registered child care facility. Refer to site map.
Credits of **65** pts have been counted in the Master Matrix for **Item 1**.

Master Matrix #2
The swine facility is located at least an additional **1501 feet,** above the required **2500 feet**, away from the closest Public Use Area; defined as 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. Refer to site map.
Credits of **30** pts have been counted in the Master Matrix for **Item 2**.

Master Matrix #3
The swine facility is located at least an additional **885 feet**, above the required **1,875 feet**, away from the closest Educational Institute, Religious Institution, or Commercial Enterprise. Refer to site map.
Credits of **15** pts have been counted in the Master Matrix for **Item 3**.

Master Matrix #4
The swine facility is located an additional **5184 feet**, above the required **500 feet**, away from the closest water source. Refer to site map.
Credits of **30** pts have been counted in the Master Matrix for **Item 4**.

Master Matrix #6
The swine facility is located an additional **500 feet**, above the required **2,500 feet**, away from the closest critical public area. Refer to site map.
Credits of **10** pts have been counted in the Master Matrix for **Item 6**.

Master Matrix #8
The swine facility is located an additional **2501 feet**, above the required **1,000 feet**, away from the closest Agricultural drainage well, known sinkhole, or major water source. Refer to site map.
Credits of **50** pts have been counted in the Master Matrix for **Item 8**.

Master Matrix #10
The swine facility is located at lease two times the minimum separation distance of **1000 feet**, from the closest high quality water, high quality resource water, or protected water areas. Refer to site map.
Credits of **30** pts have been counted in the Master Matrix for **Item 10**.

Master Matrix #12

Points: We are claiming 30 points because this Manure Storage Structure has a cover. Iowa Code states that "a formed manure storage structure directly beneath a floor where animals are housed in a confinement feeding operation is deemed to be covered." On this Site the building roof is the cover.

Design: The site will consist of **2** swine finishing buildings that have manure storage pits directly beneath the roof and floor where the pigs are housed, as required by DNR rules to be considered covered liquid manure storage. The roof has been designed and warranted using ribbed painted, or galvanized steel to withstand appropriate snow and wind loads for **Hardin** County, Iowa.

Operation: The roof is part of the Structure and has no moving parts, therefore it does not require an operating plan.

Maintenance: Each building's roof and floor will be maintained to provide coverage of the manure storage structure. Maintenance of this cover will be minimal since it consists of steel. This facility will have a caretaker on site and in the buildings daily, if there is evidence of storm damage, or any holes/water leaks, which would be evidence of a hole; if found, they will be immediately repaired with appropriate materials to achieve as-built condition.

Credits of **30** points have been counted in the Master Matrix for **Item 12**.

Master Matrix # 17

Points: We are claiming 30 points because the manure storage structure is formed. The pit is "cast in place" reinforced concrete.

Design: The site will utilize an 8' deep cast in place reinforced concrete pit. The reinforced cast in place structure meets requirements of Chapter 65 for manure storage, the housing of swine, and the support of roof, slats and walls. Tables for steel grade, size and spacing are reviewed by a DNR engineer through the permitting process. Wall and floor thickness, concrete strength, backfill soil categories, and traffic patterns are also reviewed. There will be a wall poured over an approved footing and floor incorporating a water stop that prevents infiltration/exfiltration. Refer to the Construction Design Statement for specifics. The Construction Design Statement has been completed and signed by the building contractor and contains a Construction Certification stating that it was designed in accordance with DNR rules.

Operation: The Manure Storage Structure is static and has no moving parts. The pit will be cleaned and inspected before animals are placed in building looking for any defects, such as cracks or honeycombing, and if discovered will be repaired to industry standards. The facility will be operated as a below building concrete pit. There will be a Caretaker on site and in the buildings daily, and will visually monitor manure levels. In addition water usage meters are routinely monitored by the caretaker to insure the ample water supply to pigs, and will also be used to identify excessive usage or leaks. The concrete walls of the manure storage pit are designed for heavy equipment to be operated no less than 5 feet from the walls. The pump-out pits are designed to allow heavy equipment to be operated closer than 5 feet, and are constructed using stronger design specifications. Perimeter Tile are requirement of this CDS and every tile outlet will have a monitoring location consisting of either a monitoring port including a valve in case of leak, or an outlet to the surface.

Maintenance: Due to the concrete design and specifications for the formed structure, maintenance is expected to be minimal for this structure. As a requirement of the CDS all concrete will be cured to minimize shrinking and cracking. Approximately 12" of pit will be exposed above the soil surface. There will be a Caretaker on site and in the buildings daily, and will routinely looking for cracks in the walls. The building contractor will be notified if any cracking is discovered.

The Caretaker will make routine observations of the perimeter footing tile discharge point, or monitoring port for signs of contamination; such as manure odor, visual discoloration, excessive liquid in the tile during dry periods, and dead foliage. If contamination is observed, an immediate investigation will be conducted to locate the source and the problem will immediately be corrected. A groundwater and/or structural expert will direct the investigation, and the investigation will include closing the tile shutoff valve and taking water samples for visual and laboratory analysis.

Initial Settling of soils will be monitored and corrected to eliminate standing water next to the manure storage structure.

Credits of **30** pts have been counted in the Master Matrix for **Item 17.**

Master Matrix # 19
Design: The site will have a truck turnaround area at least 120 feet in diameter and adequately surfaced for traffic in inclement weather. The site will have a truck turnaround area allowing the trucks to pull in to the site completely off of the road and turn around.
Operation: The driveway will be operated to provide for safe entrance and exit to the property for delivery vehicles and not obstruct the public thoroughfare.
Maintenance: The driveway will be maintained to a level that will support regular truck traffic. The driveway will be constructed with a 2-3 inch base. Road rock gravel will be used as a road surface that will be monitored for the purposes of leveling, filling potholes, and adequate snow removal.
Credits of **20** pts have been counted in the Master Matrix for **Item 19**.

Master Matrix #20
The construction permit applicant has no history of Administrative Orders in the last five years at any site in which the applicant has any interest.
Credits of **30** pts have been counted in the Master Matrix for **Item 20**.

Master Matrix #24
The facility has a capacity of **1 to 2000** animal units. Refer to Construction Permit Application, page 3.
Credits of **20** pts have been counted in the Master Matrix for **Item 24**.

Master Matrix #25
Design: The buildings on the site will utilize a wet/dry feeder, dry feeder with watering cups, or swinging nipples. Industry wide accepted data shows significant water savings

from any of the three options as compared to a gate mounted watering nipple. Please refer to the attached scientific article illustrating the water savings and benefits any of the three methods mentioned above.
Operation: Feeders, watering cups, or swinging nipples will be adjusted to reduce waste and optimize feed efficiency for the facility. The water savings result in reducing the gallons of water in the pit that later has to be hauled out onto farm fields.
Maintenance: The feeders, watering cups, or swinging nipples will be inspected on a regular basis and adjusted as needed. Water flow will be monitored and adjusted to control waste and excess manure volume.
Credits of **25** pts have been counted in the Master Matrix for **item 25**.

Master Matrix # 26 "e"
All manure will be injected or incorporated on the same date that it is applied.
Credits of **30** pts have been counted in the Master Matrix for **Item 26e**.

Master Matrix #37
A worker safety and protection plan is submitted with the construction permit application and was made a condition in the construction permit. The worker safety and protection plan and subsequent records will be kept on site with the manure management plan records.
Credits of **10** pts have been counted in the Master Matrix for **Item 37**.

Master Matrix #40
An Emergency Action Plan in compliance with the Iowa State University Extension publication PM 1859 was submitted with the construction permit application and was made a condition in the construction permit. **The emergency action plan and subsequent records will be kept on site with the manure management plan records.**
Credits of **5** pts have been counted in the Master Matrix for **Item 40**.

Master Matrix #41
THIS CLOSURE PLAN MUST BE KEPT ON SITE WITH ALL OTHER MMP DOCUMENTS. Closure Plan as of **9/12/2022**. This plan has been written in accordance with NRCS Conservation Practice Standard "Closure of Waste Impoundments". The closure plan is based on NRCS Code #360. This also meets the standards and requirements, which are set forth by the Iowa DNR. The closure shall comply with all federal, State of Iowa, local, and tribal laws, rules and regulations that are in place at the time of the closure. **Summit Farms Pork, LLC** will notify the DNR Filed office of their intent to close the structures on this farm which consists of two 8' deep pit barns, subsequent to six (6) months of the structure being empty of livestock. Applicant will follow any closure rules that may be established at that time that is more stringent than this closure plan. **Summit Farms Pork, LLC** and the DNR will establish a time line of completion for the closure plan.

1. Manure should be well agitated to try to remove as much manure as possible. The effluent, solids and any sludge will have an analysis for both nitrogen and phosphorus. This analysis will be used in determining the amount of material to be applied on a per acre basis according to the Manure Management Plan.

2. Non-concrete construction material should be removed and disposed of following DNR guidelines.
3. Slats should be removed for pit cleaning. Slates can be broken and added back after the pit is clean and walls have been knocked in.
4. All solids left in concrete containment shall be removed and field applied using agronomic rates.
5. After concrete containment is cleaned, applicant shall contact the DNR Field Office for visual inspection if DNR so advises. If DNR determines containment is clean enough to no create environmental impact, applicant may proceed to the next step.
6. Floor of containment shall be broken up so as to not impound water. Sub drain tile may be removed. Containment walls will be broken up and pulled into pit area. Demolished building materials shall be placed on top of concrete if not disposed of in another way.
7. Materials are to be covered with soil to a settled depth of one foot, and the backfill be sufficiently mounded such that runoff will be diverted from the site after the backfill settles.
8. Measures shall be taken during the construction to minimize site erosion and pollution of downstream water resources. This may include such items as silt fences, hag able barriers, temporary vegetation, and mulching.

Credits of 5 pts have been taken for **Item 41**.

Master Matrix #42

An Environmental Management System (EMS) is submitted with the construction permit application and was made a condition in the construction permit.

Credits of **15** pts have been counted in the Master Matrix for Item **42**.

Original research

Impact of feeders and drinker devices on pig performance, water use, and manure volume

Michael C. Brumm, MS, PhD; James M. Dahlquist, MS; Jill M. Heemstra, MS

Summary

Objective: To determine the impact of feeder and drinker designs on pig performance, water use, and manure volume.

Methods: Experiment One compared a wet/dry feeder to a dry feeder with wall-mounted nipple drinker. Experiment Two compared a swinging nipple drinker to a gate-mounted nipple, and Experiment Three compared a bowl drinker to the swinging drinker of Experiment Two. In all experiments, pigs were housed in pens of 20–24 pigs per pen in partially slatted, mechanically ventilated facilities.

Results: In Experiment One, water disappearance (L per pig per day) was 4.49 for the wet/dry feeder versus 6.06 for the dry feeder plus nipple drinker. In Experiment Two, water disappearance was 4.90 L per pig per day for the swinging drinker versus 5.50 for the gate-mounted drinker. In Experiment Three, water disappearance was 3.78 for the bowl versus 5.01 for the swinging drinker. Summer manure production in Experiment One was 4.96 L per pig per day for the wet-dry feeder versus 7.02 for the nipple drinker. Winter manure production was 3.96 L per pig per day for the swinging drinker versus 4.59 for the nipple drinker in Experiment Two.

Implications: These results document the wide range in water use and manure volume associated with feeder and drinker devices installed in swine facilities. They also suggest lower amounts of total water use and manure volume than those currently cited in the literature or used by regulatory officials.

For the overall experiment, pigs on wet/dry feeders used 1 kg of water less per kg of feed than did pigs on the conventional system.

The overall W:F ratio was lowest for the wet/dry feeder (1.78; Experiment One) and similar to the bowl drinker (1.89; Experiment Three).

In observations consistent with ours in Experiment One, Maton and Daelemans[14] concluded that all wet feeders included in their experiments reduced water spillage so that water consumption was only 70%–80% of that observed from conventional feeders and nipple drinkers. In addition, slurry (manure) volume was reduced by 20%–30% in their study.

Table 2: Manure production

	Experiment One (summer)		Experiment Two	
	Dry	Wet/dry	Swing	Nipple
Per pig per day				
Volume	7.02 L (1.85 gal)	4.96 L (1.31 gal)	3.96 L (1.05 gal)	4.59 L (1.21 gal)
Mass*	7.0 kg (15.4 lb)	4.9 kg (10.8 lb)	3.9 kg (8.6 lb)	4.5 kg (9.9 lb)
Per 1000 kg bodyweight				
Mass	109 kg (240 lb)	76 kg (167 lb)	61 kg (134 lb)	70 kg (154 lb)

* 990 kg per m^3 (61.8 lb per cu. foot); ASAE[8]

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Swine Employee Safety & Protection Plan

If, at any time, you feel you cannot do a job safely, stop and discuss it with us and we will work together to fix the problem.

Work clothes

You are expected to come to work dressed in suitable clothes that do not pose a safety risk. Suitable clothes include:

- sturdy work boots with non-slip soles for general work on-farm;
- tough overalls or long, washable trousers;
- a comfortable shirt – long sleeves should be either buttoned at the wrist or rolled up so that no loose ends can be caught in machinery or on protruding materials, the shirt should also be tucked into your trousers for the same reason;
- a broad-brimmed hat for outdoor work; and
- wet weather gear.

You are expected to wash your work clothes daily, particularly after working with chemicals.

Hygiene

Attention to personal hygiene is essential. It is in the interests of your health and our business.
If you are a smoker, we will support your attempts to quit, as smoking in a rural environment poses a fire risk.
You must:

- ensure your skin, especially your hands, are kept clean and washed with soapy water after working;
- wash your work clothes daily;
- keep up to date with your tetanus vaccinations;
- not be in possession of, consume or be suffering the effects of alcohol or illicit drugs;
- promptly report skin infections to the owner/manager;
- not smoke in the barns or any other farm buildings; and
- advise the owner/manager of any prescription medicines you may need to take during working hours – this is particularly important if you use asthma medication.

Use of protective clothing and equipment (PPE)

Protective clothing and equipment is provided for your personal protection while you work with us. All personal protection equipment (PPE) should be used as instructed, cleaned properly after use and kept in good order.
Let the owner/manager know if PPE is damaged or unavailable, or if you are having difficulty using the equipment provided.
The PPE includes:

- rubber boots;
- protective gloves for handling cleaning agents;
- hearing protection when noise is a problem;
- protective gloves, face masks, coveralls and respirators for handling chemicals;
- sunscreen when working in direct sunlight;
- goggles or safety glasses for eye protection; and

Handling chemicals

The chemicals used on-farm include detergents and other chemicals used to control insects, weeds, fungal diseases, mice and rats.

- Only use chemicals if you have been trained in their use and are authorised to do so.
- Anyone handling farm chemicals must comply with the instructions on the label and the Material Safety Data Sheet (MSDS). The MSDSs are located in the site office
- If you cannot understand the label or the MSDS, or have difficulty reading them, ask for help before continuing.
- The recommended personal protection equipment (PPE) should be worn during chemical mixing, application and clean up.

- Always have clean water available for washing down and clean clothes when using chemicals.
- When you have finished you job, the equipment should be washed down and the chemicals locked away in the chemical storage area.

Equipment operation and maintenance

- Make sure you have received instruction and training, or have been assessed before you operate any equipment for the first time.
- Become familiar with the operator's manual for all the machinery you operate.
- Read, understand and comply with all the safety warnings on machinery and equipment, and in the operator's manual.
- Ensure the power has been isolated before removing the guards on any machinery for maintenance or testing.
- As soon as the job in finished, always replace a guard that has been removed for machine maintenance or to clear a blockage.
- Tell the owner/manager about guards that have been damaged or exposed moving parts on machinery that may present the risk of injury.
- Keys must be removed from machinery after use and placed in the key cupboard.

Being ready for emergencies

- All accidents and injuries must be reported to the owner/manager.
- Before setting out each day, ensure you have enough water to keep you well hydrated.
- Always let someone know where you plan to be on the farm, particularly if you are on your own. If no one is about, write it down and leave a note in a conspicuous place.
- First aid kits are located in the office
- Make sure the emergency telephone numbers are posted in the office

Buckeye 25

Co Hwy D41

Hubbard, IA 50122

Environmental Management System

Purpose

The purpose of the Environmental Management System (EMS) and its components is to implement management practices that improve financial, social and environmental sustainability of an animal feeding operation.

Key Components to the EMS

Construction and Permitting of the Site: Site Location is crucial to the community and site owners. Prior to construction the site is planned out and mapped to avoid any areas of concern and to make sure the DNR distance requirements are met. The site is inspected to make sure that it is not on Karst soils or in a flood plain. Measurements are taken within one mile around the site to residences, water, other CAFOS, businesses and public use areas to confirm separation distances. The site owner works with a contractor and has submitted a Construction Design Statement to prove quality of concrete in the pit. DNR will be or has been called and notified on first pour of concrete for inspection. After construction and before pigs are placed in barn the construction certification has been filled out and submitted to DNR.

Manure Management Plan: A manure management plan is updated and filed each year with Iowa DNR according to the 567 Iowa Administrative Code 65.16 (1). Manure is applied to fields that have been scored using the Iowa Phosphorus Index. The Iowa Phosphorus Index takes into account soil type, erosion potential, slope, distance to nearest water as well as phosphorus levels in the soil. Rates are then calculated from a manure sample that is taken yearly. Calculated rates do not exceed the nitrogen use levels necessary to obtain optimum crop yields. Field acres are sufficient to apply all manure in the MMP to and all have written consent forms with land owners to apply manure to their fields.

Manure Storage: Manure storage is crucial to the hog operation. Manure is collected in a pit under each building. With the use of wet dry feeders, pits have a capacity to hold 12 months of storage in an 8ft pit. This allows for producer flexibility on timing of manure application.

Application of Manure: Application takes place either in the Spring or Fall. Before application rates are calculated and pits are agitated to make the manure more consistent. Certified applicators are hired by the site owner and manure is injected onto fields in the Manure Management Plan (MMP). Injection of the manure is beneficial to the producer as it reduces nitrogen volatility, reduces odor and reduces nutrient loss. Manure that is injected has a Nitrogen application loss factor of 0.98 compared to surface application with a factor of 0.75. The injection of manure applies nutrients in the soil directly where it is needed so crops can utilize them.

Spill Response: Site has implemented a response and cleanup plan in case of spills during the transportation and hauling of manure. If a spill takes place DNR will be contacted as well as contacts for hauling equipment, pumping equipment and the MMP service provider. An emergency action plan is in place and on site with all contacts and numbers needed for a spill. Manure will be contained and cleaned up to DNR requirements.

Mortality Disposal: There are two main kinds of mortality disposal, rendering and composting. Both are good ways to dispose of any mortalities.

Rendering is a practice that converts dead animals to value added product such as protein feed. Hog mortalities are placed in secure containers to prevent access to wildlife. Mortalities are picked up weekly by a rendering company. In the event of a catastrophic loss due to disease or weather event owner will provide labor and trucking assistance to the rendering facility.

Composting is a practice that converts dead animals into compost to then be applied to fields as a fertilizer. Mortalities are placed in bins and covered with material such as corn stover as well as other organic material. Mortalities then break down naturally and are applied to fields as a soil amendment. Compost piles are checked daily to make sure all mortalities are covered properly.

Emergency Action Plans

Emergency action plans provide detailed information on what to do if you have an accident or emergency at your livestock facility, such as a manure spill. While Emergency Action Plans are not required, it is a good idea to keep a copy of the plan with your manure management plan or records, production records, or somewhere that is easily located by you, family members, or employees. A well-designed and implemented emergency action plan can reduce the severity of emergencies, the risk to humans and animals, the economic losses, and the potential of environmental pollution.

This fact sheet is designed to address emergency action plans in the event of a manure leak or spill. In addition to developing an emergency action plan to address manure management, you might consider developing additional plans to address mass animal mortalities; weather-related emergencies; or electrical, plumbing, or other mechanical failures.

An emergency action plan should contain four items:

1) a plan of action to prevent the release of manure or prevent environmental contamination

2) a detailed map of the site and application fields

3) a list of contact names and numbers included with the plan and posted near the phone

4) a clean-up plan

This fact sheet is not designed to be a "fill-in-the-blank" form. It is designed to give you the basic information needed to prepare an emergency action plan. The plan you design will be specific to your livestock facility and your management practices. You may want to work with your local emergency management coordinator when developing your emergency action plan. The coordinator can help you identify resources and file any necessary notifications needed in the response of an accident or spill.

PLAN OF ACTION

A plan of action should be developed for each livestock facility. Review the plan of action every six months and make sure all personnel involved with the livestock facility are familiar with the plan. Items to consider for a plan of action include:

- Assess the situation, know what factors are at risk (human health, animal welfare, the environment, livestock structures)
- Reduce risk through implementation of planned steps
  - Prevent spills or discharges by maintaining equipment and following plans
  - Eliminate the source of manure if spill or discharge occur
  - Contain the spill
- Contact appropriate authorities to report emergencies or accidents
- Assess damages

In the event of a manure spill or leak, every effort possible should be made to prevent movement of manure off-site. If necessary, contact neighbors or nearby contractors with earth-moving equipment available to assist with containment. If tile intakes are present, have devices on hand to prevent manure from entering the tile lines. Contact neighbors with manure handling equipment to land apply the manure. Prevent manure from entering bodies of water or other environmentally sensitive areas, such as sinkholes and ag drainage wells. For assistance, contact your local sheriffs department or other emergency response personnel in your county. **State law requires that you report manure spills or leaks to the Iowa Department of Natural Resources as soon as possible, but not later than 6 hours from onset or discovery of the problem (see *Contact Names and Numbers*).**

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Emergency Action Plans

SITE MAP

A good planning tool for emergency action plans is a site map of the livestock facility. A site map can be of assistance to new employees, delivery personnel, and emergency response personnel. A site map should include the following information:

- Facility address and location (including e911 address)
- Building locations
- Electrical service boxes
- Water main connections and shut-off valves
- Identification of the manure storage structure with associated pump-out ports, valves, pumps, etc...
- Location of wellheads
- Identification of nearby tile intakes, sinkholes, ag drainage wells, streams, lakes or other environmentally sensitive areas
- Drainage and water movement indications
- Identification of property boundaries
- First aid kit
- Fire extinguisher(s)

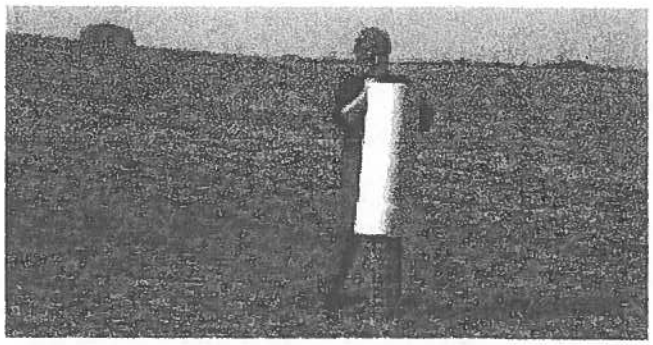
In addition to a site map for livestock facilities, copies of maps of fields for land application of manure should be included. If you already have these maps filed with your manure management plans, an extra set could be filed with your emergency action plan. These maps should include manure application setback distances, designated areas, watercourses, and property boundaries. It is also helpful to include the location of field access roads and gates. You may wish to file a site map with your DNR regional field office.

CONTACT NAMES AND NUMBERS

See attached sheets.

CLEAN-UP PLAN

A clean-up plan should include methods of proper manure removal and land application of manure at agronomic rates. Manure applications from a spill should also be recorded in your manure management plan if you are required to have one. You should consult DNR field staff for appropriate clean-up methods. You may be required to file a report following a manure spill, leak or other incident.



This fact sheet was developed by the Iowa Manure Management Action Group (IMMAG). Special thanks to Don Peterson and Paul Miller, NRCS; Karen Grimes and Kathie Lee, IDNR staff; and Jeff Lorimor and Angela Rieck-Hinz, ISU; for development of this material. Members of IMMAG include: Natural Resource Conservation Service (NRCS), Iowa Environmental Council, Agribusiness Association of Iowa, Iowa Farm Bureau, Iowa Pork Producers Association, Iowa Cattlemen's Association, Iowa Poultry Association, Conservation Districts of Iowa, Farm Credit Services of America, Iowa Department of Natural Resources (IDNR), Division of Soil Conservation of the Iowa Department of Agriculture and Land Stewardship (DSC-DALS), Iowa Beef Center, Iowa Pork Industry Center and Iowa State University Extension, and the College of Agriculture.

A special thanks to the IDNR field staff, Extension field staff, and State Emergency Response personnel for assistance.

Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Stanley R. Johnson, director, Cooperative Extension Service, Iowa State University of Science and Technology, Ames, Iowa.

PM 1859 January 2001
File: Environmental Quality 4-1 (A)

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Contact Names and Numbers

A list of contact names and numbers should be filed with the emergency action plan and a copy posted by the phone for emergencies.

Site Name

Buckeye 25

Owner/Operator

Name: Summit Pork III, LLP

Phone: 515-854-9820

Site Address (including e911 address)

Co Hwy D41
Hubbard, IA 50122

Specific Directions to the Site

See Attached

HUMAN INJURY

Explain that self-contained breathing apparatus may be required if someone has been overcome by gases.

Rescue Unit/Ambulance

Phone: 911

Doctor or Physician

Name: Hansen Family Hospital

Phone: 641-648-7000

Hospital or Medical Clinic

Name: Hansen Family Hospital

Phone: 641-648-7000

Fire Department

Phone: 911

County Sheriff

Name: Hardin County Sheriff

Phone: 641-939-8189

County Health Official

Name: Hardin County Public Health

Phone: 641-939-8444

Poison Control Center

Phone: 1-800-222-1222

Others

Name: Hardin County Enviromental Health

Phone: 641-849-7372

Name:

Phone:

Post by the telephone for reference.

From Buckeye → Buckeye 25

4 min (2.5 miles)

Buckeye Township

Head west on 60 Rd D41 toward 6 Ave

Take right at the 1st cross street onto 6 Ave

Turn left onto 195th St

Continue onto Prairie Ave

50 Locust St

From Alden → Buckeye 25

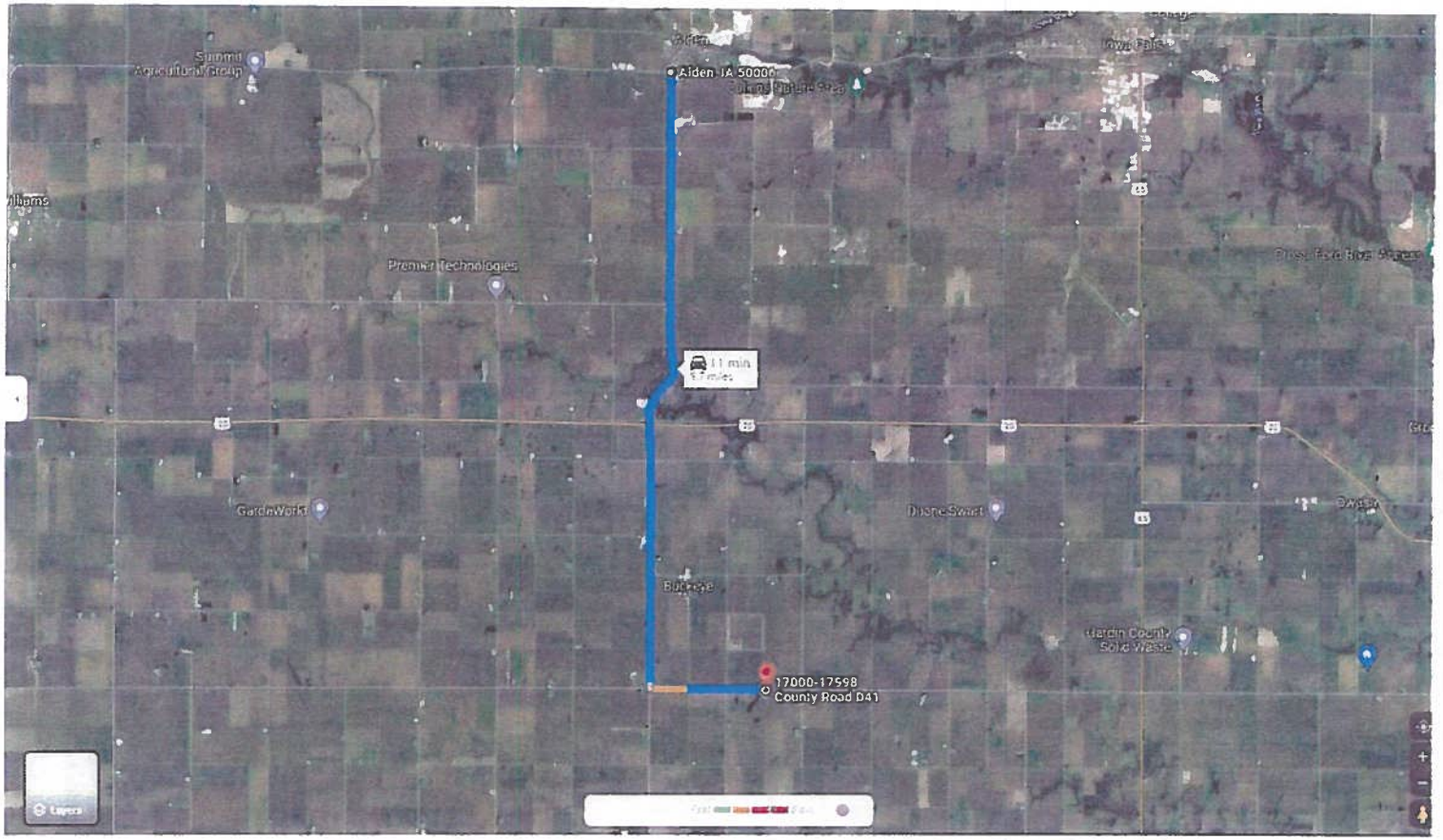
11 min (9.7 miles)

Alden

Head south on Co Hwy S27/Co Rd S27 toward Main St

Turn left onto Co Rd D41

17000-17998 Co Rd D41



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Contact Names and Numbers

Manure Leaks or Spills

IOWA DEPARTMENT OF NATURAL RESOURCES FIELD OFFICE

State law requires that you report manure spills or leaks to the Iowa Department of Natural Resources as soon as possible, but not later than 6 hours from onset or discovery of the problem (see *Contact Names and Numbers*).

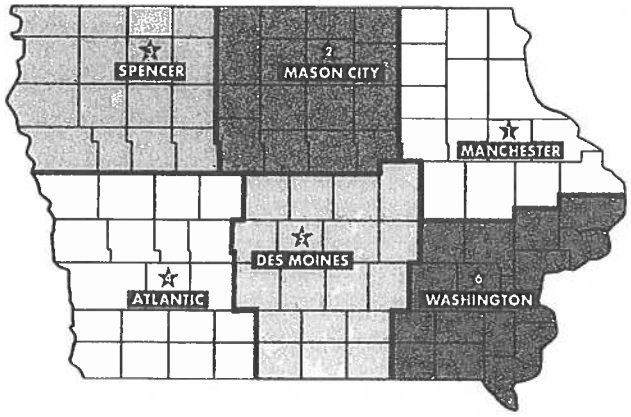
Work Days 8 a.m. - 4:30 p.m.

Phone: 641-424-4073

Weekends, Holidays, and After Business Hours

Phone: (515) 281-8694

FIELD OFFICE LOCATIONS
ENVIRONMENTAL PROTECTION DIVISION



FIELD OFFICE	LOCATION	PHONE NUMBER
1	909 W. Main, Suite 4 • Manchester, IA 52057	319-927-2640
2	2300 15th St. SW • Mason City, IA 50401	641-424-4073
3	1900 North Grand Ave. • Spencer, IA 51301	712-262-4177
4	1401 Sunnyside Lane • Atlantic, IA 50022	712-243-1934
5	401 SW 7th St., Suite I • Des Moines, IA 50309	515-725-0268
6	1004 West Madison • Washington, IA 52353	319-653-2135

COUNTY SHERIFF

Name: Hardin County Sheriff

Phone: 641-939-8189

CONTRACTOR

Earth Moving

Name: Summit Agricultural Group

Phone: 515-854-9820

Pumping Equipment

Name: Summit Agricultural Group

Phone: 515-854-9820

Hauling Equipment

Name: Summit Agricultural Group

Phone: 515-854-9820

Equipment Owners

Name: Summit Agricultural Group

Phone: 515-854-9820

County Engineer

Name: Hardin County Engineer

Phone: 641-858-5058

Others

Name: _____

Phone: _____

Post by the telephone for reference.

Contact Names and Numbers

PARTIAL SYSTEM FAILURE

Equipment suppliers and technicians:

Electricity
Name: Quality Ag Builders, Inc
Phone: 515-859-7824

Plumbing
Name: Quality Ag Builders, Inc
Phone: 515-859-7824

Ventilation
Name: Quality Ag Builders, Inc.
Phone: 515-859-7824

Heating
Name: Quality Ag Builders, Inc.
Phone: 515-859-7824

Feed
Name: Summit Agricultural Group
Phone: 515-854-9820

Veterinarian
Name: Summit Agricultural Group
Phone: 515-854-9820

Mortality Disposal
Name: Darling International, Inc
Phone: 515-883-7700

Insurance Carrier
Name: West Field
Phone: 1-800-243-0210
Policy: _____

Other
_____
_____
_____

Post by the telephone for reference.

Emergency Action Plan

1) **A plan of action to prevent the release of manure or prevent environmental contamination.**

   - The building will be designed with cup waters, wet/dry feeders, or swinging nipple waters which will result in a significant reduction in annual manure production.

   - There will be a Caretaker on site and in the barns daily, and will visually inspect and monitor manure levels.

   - During the manure removal process, it will be our plan to cap any agitation pumps and never leave any loading pumps with load stands unattended.

2) **A detailed map of the site and application fields.**

   - A map of the proposed site layout is attached.

   - A plat map of the application fields is attached.

3) **A list of contact names and numbers included with the plan and posted near the phone.**

   - Attached

4) **A clean-up plan**

   - In the event of a manure spill we will use any appropriate means to prevent the manure from leaving the site, or reaching any water. Contained liquids will be sucked up using pump and applied as a slurry according to the MMP. Wood chips or straw will be used as a final drying agent where possible, and then will also be applied per the MMP.

Jolene Pieters

From: noreply@civicplus.com
Sent: Wednesday, September 21, 2022 11:02 AM
To: Jolene Pieters
Subject: Online Form Submittal: Application for Use of Hardin County Courthouse Grounds

Application for Use of Hardin County Courthouse Grounds

Event

Date of Use	10/10/2022
End Date	10/14/2022
Time Requested	10:00 AM - 10:30 AM
Name of Event:	Domestic Abuse Awareness Month
Type of Event:	Awareness Silent Display

Organization Information

Group Requesting Use:	Crisis Intervention Service
Name of Person Responsible:	Merilee Johnson
Address:	221 Central Ave E
Phone #:	3192319904
Fax:	*Field not completed.*
Email:	merilee@cishelps.org
Has this organization used the Courthouse grounds for other events?	Yes
If yes, please list functions and dates:	Yes, a similar display, however this one will be modified to just one cutout and information.

Event Details

Courthouse Grounds Area	Small space by the front door or anywhere available.
Is the event open to the general public?	Yes

Number of participants expected:	typical number of visitors to court house
What equipment will be used on the Courthouse grounds?	possibly a small table with information
When will the equipment be set up?	*Field not completed.*
If held outside, will food be served for a fee?	No
If yes, has the appropriate Health Department permit been obtained?	*Field not completed.*
A liability insurance policy naming Hardin County as an "additional insured" is required in the amount of:	*Field not completed.*
Does this group have liability insurance to cover this event?	*Field not completed.*

(Section Break)

I have read the Policy for Use of Courthouse Grounds. I understand that Courthouse grounds will be left in a clean and neat condition after use. I am liable for all damages, expenses, and loss caused by any person who attends or participates in this scheduled event. By signing this application, I agree to defend and hold harmless the County regarding any damage which may occur as a result of this scheduled function.

Electronic Signature of Applicant	By selecting this option the applicant indicates agreement with and understanding of the application process, policies, and requirements.
Date	9/21/2022

For County Use Only

HARDIN COUNTY
Courthouse

HARDIN COUNTY COURTHOUSE
1215 EDGINGTON AVE.
ELDORA, IA 50627

HARDIN COUNTY
Employee Change of Status Report

Please enter the following change(s) as of 09/26/2022
Date

Name: Jody Mesch
Department: Facilities
Address:
Position: Facilities Manager
Salary/Hourly Rate:
Fund:
Weekly Scheduled Hours:

This position is: ☐ Exempt ☐ Non-Exempt

Status: ☒ Full-time ☐ Permanent Part-time ☐ Temporary/Seasonal Part-time

Reason of Change:

☐ Hired ☐ Resignation
☐ Promotion ☒ Retirement
☐ Demotion ☐ Layoff
☐ Pay Increase ☐ Discharge
☐ Leave of Absence
Dates

Other:

Dates of Employment: 08/31/1995 to 01/03/2023
From To

Last Day of Work 11/07/2022
(if applicable)

Beyond the last day of work, the following vacation time was (or will be paid): 11/08/2022 to 01/02/2022
From To

Authorized by:
Elected Official or Department Head
Date

Authorized by:
Board of Supervisors
Date