PLANNING & DEVELOPMENT
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Item #5
8/20/19

Timothy Huey
Director

To: Mahesh Sharma, County Administrator

From: Timothy Huey, Planning Director

Date: August 13, 2019

Re: Public Hearing on the State Construction Permit Application of JT Cleona Pork LLC. in the SW¼SW¼ of Section 8 T79N, R1E (Cleona Township) for two confined animal feeding buildings at 24155 10th Avenue in unincorporated Scott County.

On July 19th the above referenced application was submitted to Scott County prior to submission to the Iowa DNR. Scott County has 30 days from the date it is received by the DNR to submit comments and a recommendation on that application. The DNR notified Scott County on August 1st it had received this application. Notice of the receipt of this application has been published as a public notice on August 7th. The notice of a public hearing to be held on the application at the August 22nd Board meeting was published at the same time as well as mailed to the property owners within 500 feet of the property. The Board will be able to act on a recommendation on the State Construction Permit at the Board meeting on September 5th so that the Board's recommendation can be submitted to the DNR. This does require Tom Dittmer to approve an extension of our 30-day review deadline which he has indicated he will. Dittmer has also indicated he will be asking the Board to approve a waiver of the thirty day appeal period that starts after the DNR notifies Scott County they have issued a conditional permit. This shortens up the timeframe for issuance of the final permit and is something Dittmer has generally requested with all his previous permits and the Board has approved.

This request is for the construction of two new hog confinement buildings on farmland located on 10th Avenue in Section 8 of Cleona Township and requires compliance with meeting the minimum performance points of the Master Matrix. The buildings are identical in size and capacity to the two buildings that were approved last year on 75th Avenue in Allens Grove Township.

The Health Department and Planning and Development staff will review the scoring of the Master Matrix that the applicant has submitted. The Health Department will also review the manure management plan. Staff will report on its determinations at the Committee of the Whole meeting on September 3rd. Staff will include any written comments and a summary of any verbal comments received at the public hearing with the Board's recommendation to the IDNR.

Staff accompanied the IDNR inspector from the Washington, Iowa district office on his inspection of the site yesterday August 12th. Staff will report on that inspection at the next Committee of the Whole meeting and will also be ready to make a recommendation to the Board at the Committee of the Whole meeting on Tuesday, September 3rd following our full review of the application.

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

Public Notice is hereby given that the Scott County Board of Supervisors will hold a public hearing on **Thursday, August 8, 2019**, in the Board Room in the Scott County Administrative Center, 600 West 4th Street, Davenport, Iowa, during their regular meeting which starts promptly at **5:00 P.M.**

The Scott County Board of Supervisors will review and hear public comments on the State of Iowa Construction Permit application of JT Cleona Pork LLC. in the SW¼SW¼ of Section 8, T79N, R1E (Cleona Township) for the construction of a new confined animal feeding operation. The address of the subject property is 24155 10th Avenue, Stockton, Iowa 52745.

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

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

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

Timothy Huey
Director

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

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

Name of Applicant:	JT Cleona Pork 1+ LLC.
Address:	24155 10th Avenue Stockton, Iowa 52769
Location of operation:	SW¼ of SW¼ of Section 8 T79N, R1E (Cleona Township)
Description of application:	The proposed confined animal feeding operation would have an Animal Unit Capacity (AUC) of 1,920. The proposal would include the construction of two (2) new structures, both 241' x 81' wean-finish barns. The new buildings would be constructed as formed manure storage structures with 8' deep concrete pits below the slatted floors.
Examination:	The application for a State Construction Permit and associated manure management plan is on file with the Scott County Planning and Development Department located at 600 West 4th Street, Davenport, Iowa and is available for review by the public during normal working hours 8 AM to 4:30 PM, Monday through Friday.
Comments:	Written, faxed or emailed comments for the Board of Supervisors may be delivered or sent to the Scott County Planning and Development Department until Thursday, August 22, 2019 at 4:00 PM. All comments will be forwarded to the Iowa Department of Natural Resources. The fax number for Planning and Development is 563-326-8257 and the email address is planning@scottcountyiowa.com
Additional Information:	Timothy Huey, Planning and Development Director First Floor 600 West 4th Street Davenport, Iowa 52801 563-326-8643

JT CLEONA

Master Matrix points table

Question	Score	Air	Water	Community
1				
2	30	12		18
3	30	12		18
4	5		5	
5				
6	10	4		6
7	30		24	6
8	50	5	25	20
9	25	7.5	7.5	10
10	30		22.5	7.5
11				
12	30	27		3
13				
14				
15				
16				
17	30		27	3
18				
19	20			20
20	30			30
21				
22				
23	25			25
24	20			20
25	25		12.5	12.5
26	30	12	12	6
27				
28				
29				
30				
31	5	2		3
32	5	2		3
33				
34				
35	10		7.5	2.5
36				
37				
38				
39				
40				
41				
42				
43				
44				
TOTALS	**440**	**83.5**	143	**213.5**

JT Cleona Pork 1+, LLC

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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

	Score	Air	Water	Community
300 feet or more	30	9.00		21.00

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

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

	Score	Air	Water	Community
500 feet or more	10	4.00		6.00

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

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

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

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

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

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

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

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

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

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

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

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

is at least two times the minimum required separation distance

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

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

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

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

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

12. Liquid manure storage structure is covered.

	Score	Air	Water	Community
Covered liquid manure storage	30	27.00		3.00

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

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

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

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

	Score	Air	Water	Community
Emergency containment area	20		18.00	2.00

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

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

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

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

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

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

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

15. Utilization of landscaping around confinement structure.

	Score	Air	Water	Community
Utilization of Landscaping	20	10.00		10.00

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

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

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

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

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

17. Proposed manure storage structure is formed

	Score	Air	Water	Community
Formed manure storage structure	30		27.00	3.00

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

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

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

	Score	Air	Water	Community
Aerated manure storage structure	10	8.00		2.00

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

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.

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

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

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

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

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

Proposed Site Operation and Manure Management Practices

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

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

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

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

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

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

JT Cleona Pork 1+, LLC 440 83.5 143 213.5

IOWA MASTER MATRIX SUPPLEMENT

JT Cleona Pork 1+, LLC

July 2019

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

Table 1. Summary table of matrix questions receiving points

Question #	Description	Actual
	Site Separation Distances	
2	public use area >2500 ft (Table 6)	2.5 miles to Sunbury
3	school, church, business >2500ft	2.3 miles to ISP
4	Closest water source > 500ft	975 ft to Tributary of Mud Crk.
6	critical public area	2.5 miles to Sunbury
7	Two times well distance	New well will be at least 200 ft
8	drainage wells, sinkholes, major water sources	3.7 mi to Mud Creek
9	Other MMP site	4300 ft to west
10	high quality/protected waters(>5000ft)	8 mi. to Wapsipinicon River
12	covered manure storage	design / O&M, CDS
17	formed manure storage structure	design / O&M, CDS
19	Truck turnaround	Design / O&M, permit
20	No administrative orders	personal statement
23	Family Farm Tax Credit qualification	personal statement
24	Facility Size	1920 au
25	Feed and water systems	design / O&M
26	Manure Injection or incorporation same day	O&M
31	Manure App 200ft from public use area (Plainview)	See Permit package
32	Manure App 200ft from school, church, business. (Plainview)	See Permit package
35	Manure App 400ft from HQ waters or PWA (Wapsipinicon)	See Permit package

12. Covered Manure Storage

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

17. Formed Manure Storage Structure

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

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

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

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

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

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

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

25. Feed and Water Systems

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

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

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

Manure will be injected or incorporated on the same date.

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

Tom Dittmer Mgr 7/18/19

JT Cleona Pork 1+, LLC Date

Daily Checks

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

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

Monthly Checks

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

Semi-annual Check

The outer above ground perimeter of manure storage:

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

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

County	River/Stream	Location
Ringgold	East Fork Grand River	South county line (S25, T67N, R30W) to confluence with Hackberry Creek (S13, T70N, R29W)
	Grand River	South county line (S30, T67N, R31W) to confluence with Plum Creek (S29, T70N, R30W)
	Platte River	West county line (S31, T68N, R31W) to north county line (S6, T70N, R31W)
	Thompson River	East county line (S1, T70N, R28W) to north county line (S1, T70N, R28W)
Sac	Boyer River	South county line (S31, T86N, R37W) to west line (S5, T89N, R37W)
	Cedar Creek	Mouth (S25, T88N, R36W) to west line (S10, T88N, R35W)
	Drainage Ditch 57	Mouth (S23, T87N, R36W) to east line (S35, T87N, R36W)
	Indian Creek	Mouth (S24, T87N, R36W) to north line (S7, T87N, R36W)
	North Raccoon River	East county line (S1, T86N, R35W) to north county line (S1, T89N, R36W)
Scott	Hickory Creek	Mouth (S31, T80N, R02E) to confluence with unnamed tributary (S8, T79N, R02E)
	Lost Creek	Mouth (S15, T80N, R05E) to east line (S32, T80N, R05E)
	Mississippi River	West county line (S19, T77N, R02E) to north county line (S13, T80N, R05E)
	Mud Creek	Mouth (S12, T80N, R02E) to county road bridge (S11, T79N, R01E)
	Wapsipinicon River	Mouth (S13, T80N, R05E) to north county line (S1, T80N, R01E)
Shelby	East Branch West Nishnabotna River	South county line (S34, T78N, R39W) to east county line (S13, T80N, R37W)
	Indian Creek	South county line (S32, T78N, R37W) to confluence with unnamed tributary (S8, T78N, R37W)
	West Fork West Nishnabotna River	Mouth (S17, T79N, R38W) to north county line (S5, T81N, R38W)
	West Nishnabotna River	South county line (S32, T78N, R39W) to north county line (S2, T81N, R37W)

July 30, 2019

TOM DITTMER
C/O RANDY SHUMAKER
CUSTOM BUILDERS
209 W SOUTH ST
TIPTON, IA 52772

Project Description: ; Confinement Feeding Operation; JT Cleona 1 Facility; Flood Plain Determination
Project Location(s): County: Scott, QTR-QTR: SW, Quarter: SW, Section: 8, Township: T79N, Range: R01E, Iowa
Iowa DNR Work Record Number: 87964

Dear Mr. Shumaker:

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

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

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

If you have any questions, please contact me by email at Andy.Jensen@dnr.iowa.gov, or by phone at 515-725-8347,

Sincerely,

Andrew Jensen
Flood Plain Management and Dam Safety Section

CC: Tom Dittmer; 12090 240th St; Eldridge, IA 52748
Paul Petitti; Iowa DNR FO #3

Construction Design Statement (CDS)

Instructions:

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

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

A) Information about the operation:

Name of operation: JT Cleona 1 Facility ID No.: _____

Location:

SW	SW	08	T79N, R01E	Cleona	Scott
(¼ ¼)	(¼)	(Section)	(Tier & Range)	(Name of Township)	(County)

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

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

All Pit Fans Mounted to Concrete Pumpouts

No Water Entry Through Pit Wall

C) **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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Section 2 - Manure management plan:

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

Tom Dittmer	Tom Dittmer, Mgr	7/18/19
Owner's Name (print)	Owner's Signature	Date

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

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

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

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

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

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

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

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

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

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

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

Number of buildings: 2 Building name: JT Cleona 1

Dimensions of proposed formed manure storage structure[3]

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

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

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

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

Maximum spacing of steel, in inches

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

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

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

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

Name of tank manufacturer company: _____

Address: _____

Telephone: _____ Fax _____

F) **Additional construction design standards:**

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

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

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

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

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

1. Site preparation (check the following box):

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

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

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

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

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

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

5. Concrete consolidation and vibration requirements (check the following box):
   ☒ All concrete placed for walls shall be consolidated or vibrated, by manual or mechanical means, or a combination, in a manner which meets ACI 309.

6. Minimum rebar specifications: (check the following box):
   ☒ All rebar used shall be a minimum of grade 40 steel. All rebar, with the exception of rebar dowels connecting the walls to the floor or footings, shall be secured and tied in place prior to the placing of concrete.

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

8. Minimum floor specifications. Complete part a) and b):
   a) Floor thickness requirements (check the following box):
      ☒ The floor slab shall be a minimum of 5 inches thick. Nondestructive methods to verify the floor slab thickness may be required by the department. The results shall indicate that at least 95 percent of the floor slab area meets the minimum required thickness. In no case shall the floor slab thickness be less than 4½ inches.

   b) The floor slab reinforcement shall be located in the middle of the thickness of the floor slab (check one of the following boxes):
      ☒ Formed manure storage structures with a depth of 4 feet or more shall have primary reinforcement consisting of a minimum of #4 rebar placed a maximum of 18 inches on center in each direction placed in a single mat.
      ☐ Formed manure storage structure with a depth less than 4 feet shall have shrinkage reinforcement consisting of a minimum of 6 × 6-W1.4 × W1.4 welded wire fabric.

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

10. Requirement to connect walls to footings (check one of the following boxes):
    ☐ The vertical steel of all walls shall be extended into the footing, and be bent at 90°, OR
    ☒ A separate dowel shall be installed as a #4 rebar that is bent at 90° with at least 20 inches of rebar in the wall and extended into the footing within 3 inches of the bottom of the footing and extended at least 3 inches horizontally, as indicated in Appendix D, Figure D-1 (page 10). Dowel spacing (bend or extended) shall be the same as the spacing for the vertical rebar.
    ☐ As an alternative to the 90°bend, the dowel may be extended at least 12 inches into the footing, with a minimum concrete cover of 3 inches at the bottom, as indicated in Appendix D, Figure D-1 (page 10). Dowel spacing (bend or extended) shall be the same as the spacing for the vertical rebar.
    ☐ In lieu of dowels, mechanical means or alternate methods may be used as anchorage of interior walls to footings. Please submit structural calculations and details of this proposal.

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

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

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

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

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

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

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

Name of operation: JT Cleona 1 County: Scott

Owner's name: JT Cleona 1

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

☒ Page 3, for each formed manure storage structure[3] that have different dimensions
☒ Pages 4 to 6 (applicable sections)
☒ Other documents (specify): Iowa DNR Alluvial and Karst Soils Maps

Randall D Shumaker		5/20/19
(Print name)	(Signature)	(Date)
Custom Builders, Inc.	209 W. South St. Tipton, IA 52772	563-886-6196
(Company)	(Address)	(Phone No.)

(See page 6 for mailing instructions)

H) **Upgraded Concrete Standards Certification:** If the site is in karst according to Section 1.D (page 2) the person responsible for constructing the formed manure storage structure must also complete this section:
567 IAC 65.15(14)"c". Karst terrain - upgraded standards. If the site of the proposed formed manure storage structure is located in an area that exhibits karst terrain or an area that drains into a known sinkhole, the minimum concrete standards set forth in 65.15(14)"a" or "b" shall apply. In addition, the following requirements apply to all formed manure storage structures that store nondry or dry manure (check all of the following boxes):

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

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

☐ (3) In addition, in an area that exhibits karst terrain or an area that drains into a known sinkhole, a PE, an NRCS engineer or a qualified organization shall submit a soil exploration study based on the results from soil borings or test pits to determine the vertical separation between the bottom of the formed structure and limestone, dolomite, or other soluble rock. A minimum of two soil borings, equally spaced within each formed structure, or two test pits outside of each formed

structure, are required. After soil exploration is completed, each soil boring and pit shall be properly plugged with concrete grout, bentonite, or similar materials.

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

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

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

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

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

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

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

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

Name of operation: JT Elrona Park I+ LLC County: Scott

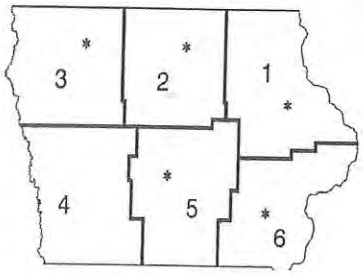
Owner's name:

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

Tom Dittmer	Tom Dittmer	7/18/19
(Print name)	(Signature)	(Date)
Grandview Farms, Inc	12090 240th St. Eldridge, IA 52748	(563) 320-1542
(Company)	(Address)	(Phone No.)

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

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



Field Office 1 909 W Main St Ste 4 Manchester, IA 52057 (563) 927-2640	Field Office 3 1900 N Grand Ave Spencer, IA 51301 (712) 262-4177	Field Office 5 502 E 9th St Des Moines IA 50319 (515) 725-0268
Field Office 2 2300 15th St SW Mason City, IA 50401 (641) 424-4073	Field Office 4 1401 Sunnyside Ln Atlantic, IA 50022 (712) 243-1934	Field Office 6 1023 W Madison Washington, IA 52353 (319) 653-2135

Services Agencies Social

DNR IOWA
DEPARTMENT OF NATURAL RESOURCES

Basemaps Measure Bookmarks Mail Map Info

502 E. 9th St. Des Moines. IA 50319 T79NR01E08

UTM Zone 15 NAD83 WGS84
678557.97, 4615463.48 -90.855037, 41.67[illegible]28

JT Cleona 1 proposed site

IOWA DEPARTMENT OF NATURAL RESOURCES

GOVERNOR KIM REYNOLDS
LT. GOVERNOR ADAM GREGG
ACTING DIRECTOR BRUCE TRAUTMAN

May 3, 2019

TOM DITTMER
C/O RANDY SHUMAKER
CUSTOM BUILDERS INC
209 W SOUTH ST
TIPTON, IA 52772

Project Description: Confinement Feeding Operation; JT Cleona 1 Facility; Flood Plain Determination
Project Location(s): County: Scott, QTR-QTR: NW, Quarter: NW, Section: 17, Township: T79N, Range: R01E, Iowa
Iowa DNR Work Record Number: 87613

Dear Mr. Shumaker:

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

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

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

If you have any questions, please contact me by email at Andy.Jensen@dnr.iowa.gov, or by phone at 515-725-8347,

Sincerely,

Andrew Jensen
Flood Plain Management and Dam Safety Section

CC: Tom Dittmer; 12090 240th St; Eldridge, IA 52748
Paul Petitti; Iowa DNR FO #3

LATTA WELL & PUMP CORP
1051 Taylor Avenue
Wilton, IA 52778
(563) 732-3721
FAX (563) 732-3722
E-MAIL: lattawell@netwtc.net
Website: www.lattawell.com

Mark Latta
Kurt Hartman
Austen Stoll

May 16, 2019

Darrin

Karst Hole results
Location:
41°39'19.62" 90°52'41.96

0'	- 2'	black soil
2'	- 9'	yellow clay
9'	- 17'	brown sand
17'	- 21'	gray sand
21'	- 34'	gray clay
34'		yellow limestone

Sincerely
Latta Well & Pump Corp

Austen Stoll

Manure Management Plan Form

Animal Feeding Operation Information

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

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

Signed: Tom Dittmer (Signature) Tom Dittmer (Print name) **Date:** 7/18/19

Name of operation: JT CLEONA PORK 1+, LLC **Facility ID No.** NA

Location of the operation: 24155 - 10th Ave (911 address)

Stockton (Town) Iowa (State) 52769 (Zip)

SW (1/4 1/4) 1/4 of the SW (1/4) 1/4 of Sec 8 (Section) T 79N R 1E (Tier & Range) CLEONA (Township Name) SCOTT (County)

Owner and contacts of the animal feeding operation:

Owner JT CLEONA PORK, LLC Phone 563-285-4006

Address 12090 240TH St. ELDRIDGE, IA 52748

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

Contact person (if different than owner) Phone

Address

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

Contract company (if applicable) Phone

Address

This manure management plan is for: (check one)

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

Construction and Expansion Dates: NA date of initial construction and all expansions

Table 1. Information about livestock production and manure management system

1	2	3	4	5	6	7	8
Animal type/ Production phase[a]	Max # of animals confined	Manure Storage Structure [b]	N[c]	P_2O_5[c]	gal/space/dy[d]	Days/yr Facility occupied	Annual Manure Produced[e]
Select production phase			0	0	0.0		000
Select production phase			0	0	0.0		000
Select production phase			0	0	0.0		000
WEAN/FINISH(DRY FEED)	4800	DEEP PIT	36	22	0.7	355	1,192,800
						Total Gallons	**1,192,800**

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

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

Manure Management Plan Form

Determining Maximum Allowable Manure Application Rates

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

Management Identification (Mgt ID)[f] CC) Corn - Corn

(identify this application scenario by letter)

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

Timing of application FALL OR spring

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

Application loss factor 0.98

If spray irrigation is used, identify method [i]

Table 2. Manure nutrient concentration

Manure Nutrient Content (lbs/1000gal or lbs/ton) [j]					
Total N	36		P_2O_5	22	
%TN Available 1st year[k]	100%	2nd year		3rd year	
Available N 1st year[l]	35.3	2nd year[m]	0.0	3rd year[n]	0.0

Table 3. Crop usage rates[o]

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

*Use blank space above to add crop not listed.

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

			Corn	Corn	Corn	Corn
1	Applying Manure For (crop to be grown)[p]					
2	Optimum Crop Yield [g]	bu or ton/acre	224	224	224	224
3	P_2O_5 removed with crop by harvest [q]	lb/acre	71.7	71.7	71.7	71.7
4	Crop N utilization [r]	lb/acre	269	269	269	269
5a	Legume N credit [s]	lb/acre		0	0	0
5b	Commercial N planned[t]	lb/acre	100	100	100	100
5c	Manure N carryover credit [u]	lb/acre		0.0	0.0	0.0
6	Remaining crop N need [v]	lb/acre	169	169	169	169
7	Manure rate to supply remaining N [w]	gal/acre	4785	4785	4785	4785
8	P_2O_5 applied with N-based rate [x]	lb/acre	105	105	105	105

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

9	Commercial P_2O_5 planned [y]	lb/acre				
10	Manure rate to supply P removal [z]	gal/acre	3258	3258	3258	3258
11	Manure rate for P based plan [aa]	gal/acre				
12	Manure N applied with P-based plan [bb]	lb/acree	0	0	0	0

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

13	Planned manure application rate [cc]	gal/acre	4785	4785	4785	4785

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

Manure Management Plan Form

Year by Year Manure Management Plan Summary

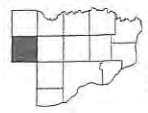
Instructions: Complete this form for each of the next four growing seasons, to demonstrate sufficient land base to apply manure over multiple crop years. If this page is identical for multiple years (e.g. every other year), submit only once for the identical years, and indicate which years the form represents.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

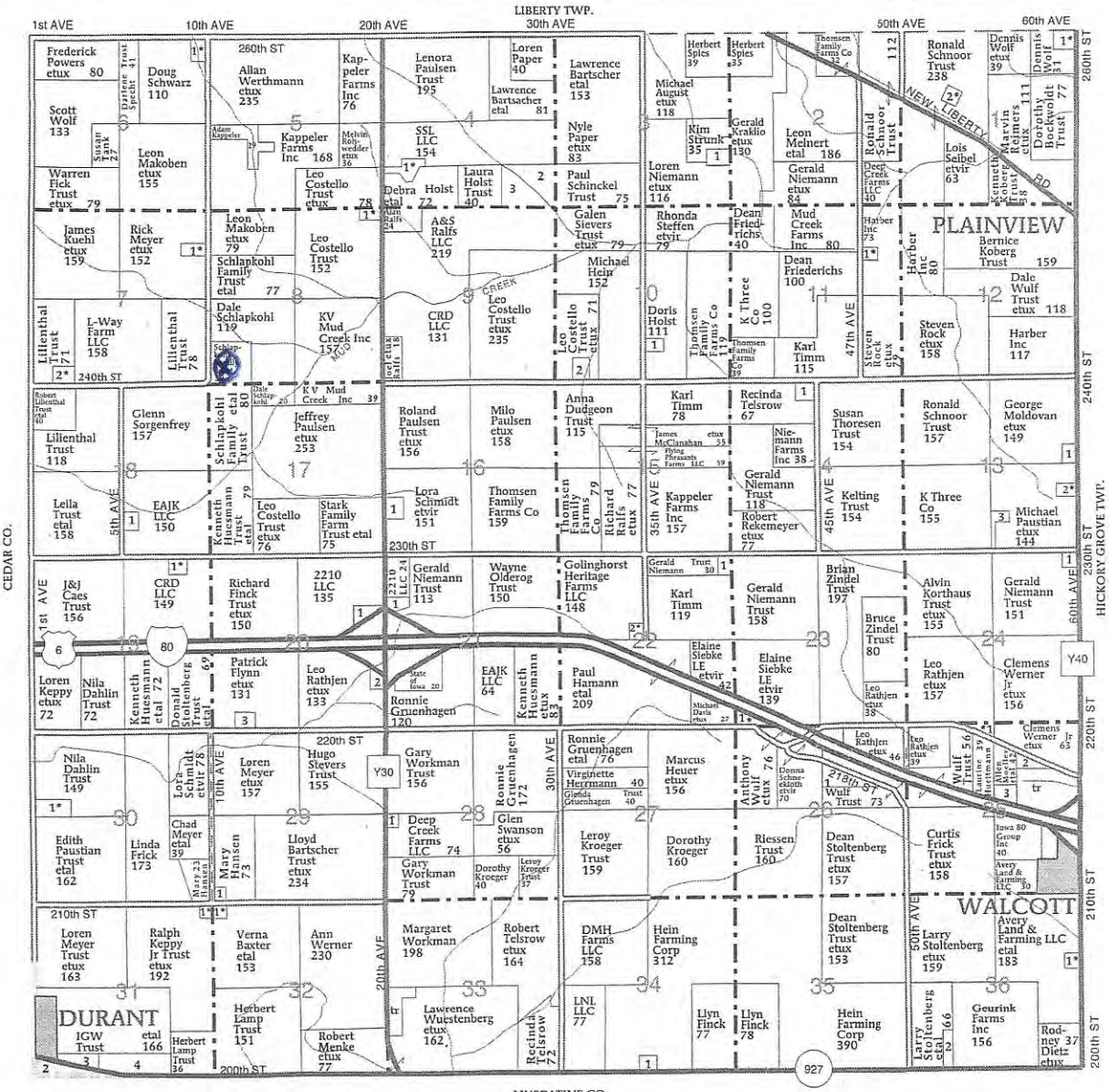
Crop year(s): 2020-2023

1	2	3	4	5	6	7	8	9	10	11
Field Designation [ee]	Field Location ___1/4 of the___ 1/4 Sec___ T___ R___ Townsip Name_______, County Name ______	Mgt Id [ff]	Planned Crop	Acres receiving manure[gg]	Own, rent, agreement (include length of agreement) [hh]	P index value [ii]	HEL (Y/N)[jj]	Planned Application gal/acre	Planned Application gal/field [kk]	Correct Soil Test for P[ll] (Yes or No)
Cleona N	N1/2 SW & S1/2 NW 8 79N 1E Cleona, Scott	CC	Corn	120.61	Own/agreement	2.33	N	4785	577119	Yes
Cleona S	S1/2 SW 8 & W1/2 NW & NE NW 17 79N 1E	CC	Corn	162	Own/agreement	1.37	N	4785	775170	Yes
	Cleona, Scott								0	
Cleona NE	NE SE 8 79N 1E CLEONA, SCOTT	CC	Corn	10	Own/agreement	2.69	N	4785	47850	Yes
									0	
									0	
									0	
									0	
									0	
									0	
									0	
									0	
									0	
									0	
									0	
									0	
									0	
									0	
									0	
									0	
									0	
									0	
	Total acres available for manure application			292.61	**Total gallons that could be applied**				1400139	

⊗ Farm Location
JT Cleona Park It

T-79-N CLEONA PLAT (Landowners) R-1-E





CLEONA TOWNSHIP

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

SECTION 3
1. Strunk, Andrew 7

SECTION 4
1. Kuehl, James etux 10
2. Schinckel Trust, Paul 21
3. Holst, Debra 20

SECTION 6
1. Samuels, Jesse etux 6

SECTION 7
1. Hamilton, James etux 6
2. Lilienthal, Robert etux 9

SECTION 8
1. Schlapkohl, Keith etux 6

SECTION 10
1. Hamrighausen, Carmen 6
2. Wegener, Lucas 8

SECTION 11
1. Costello, Kyle etux 6

SECTION 13
1. Claussen, Kyle 5
2. Kolwey, William etux 5
3. Paustian Enterprises Ltd 6

SECTION 14
1. Rochholz, Kenneth 9

SECTION 16
1. Schmidt, Michael 5

SECTION 18
1. Huesmann, Kyle 6

SECTION 19
1. Jacobsen, Sarah etal 5

SECTION 20
1. Paulsen, Mary 10
2. Interchange Development Corp 6
3. Fick, Ronald 14

SECTION 21
1. IBP INC 5

SECTION 22
1. Schueller, Daryl 8
2. Carr, Benjamin etal 5

SECTION 23
1. Wulf, Anthony etux 12

SECTION 24
1. Bolden, Ednell 5

SECTION 25
1. Rathjen, Leo etux 5
2. Avery Partners LLC 9
3. Exit 284 Land & Development 21
4. Exit 284 Land & Development 7

SECTION 26
1. Zindel Trust, Brian 10

SECTION 28
1. Randall, Lee 5

SECTION 29
1. Schemmel, Dean 5

SECTION 30
1. Keppy, Loren etux 14

SECTION 31
1. Schemmel, Thomas etux 7
2. Durant Cemetery Assn 5
3. City of Durant 14
4. Paulsen, Darwin 26

SECTION 32
1. Schemmel, Thomas etux 7

SECTION 34
1. Williams, Larry 6

SECTION 36
1. Taylor, Robert etux 6
2. Stoltenberg, Larry 11

USDA NRCS
Natural Resources Conservation Service

v. 1/22/2007

Iowa Phosphorus Index

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

Field Number	Erosion							+	Runoff					+	Tile / Subsurface Recharge			=	Overall
	Gross Erosion	x Sediment Trap Factor	x SDR	x Buffer Factor	x Enrichment Factor	x STP Factor	= Erosion PI		RCN Factor	x (STP Factor	+ P App Factor	) = Runoff PI			Flow Factor	x STP Factor	= Tile/Sub PI		P Index
CLEONA N --	4.10	1.00	0.49	1.00	1.10	0.86	1.91		1.40	0.24	0.00	0.34			1.00	0.08	0.08		2.33
CLEONA NE --	4.20	1.00	0.66	1.00	1.10	0.78	2.40		1.40	0.15	0.00	0.21			1.00	0.08	0.08		2.69
CLEONA S --	2.20	1.00	0.48	1.00	1.10	0.84	0.98		1.40	0.22	0.00	0.31			1.00	0.08	0.08		1.37

MANURE ANALYSIS

GRANDVIEW FARMS

LBS. / 1000 GALLONS		
	N	**P**
2013	36	31
2014	30	14
2016	34	24
	32	15
	40	21
	40	24
	41	24
	38	21
AVG.	**36**	**22**

Soil type yields

		acres	CORN	SOYBEAN	CORN	SOYBEAN
11B	Colo-Ely complex, 0 to 5 percent slopes	0	221	64	0	0
119	Muscatine silty clay loam, 0 to 2 percent slopes	3.8	240	70	912	266
120B	Tama silty clay loam, 2 to 5 percent slopes	27.4	235	68	6439	1863.2
120C	Tama silty clay loam, 5 to 9 percent slopes	12.1	228	66	2758.8	798.6
120C2	Tama silty clay loam, 5 to 9 percent slopes, eroded	8.4	221	64	1856.4	537.6
133	Colo silty clay loam, 0 to 2 percent slopes, occasionally flooded	106.7	210	61	22407	6508.7
420B	Tama silty clay loam, terrace, 2 to 5 percent slopes	13.6	235	68	3196	924.8
430	Ackmore silt loam, 0 to 2 percent slopes	17	198	57	3366	969
826	Rowley silt loam, 0 to 2 percent slopes	32.2	238	69	7663.6	2221.8
926	Canoe silt loam, 0 to 2 percent slopes	10.3	225	65	2317.5	669.5
1118	Garwin silty clay loam, terrace, 0 to 2 percent slopes	29.1	233	68	6780.3	1978.8
1119	Muscatine silty clay loam, terrace, 0 to 2 percent slopes	36.3	240	70	8712	2541
		296.9			66408.6	19279
					224	65

USDA NRCS Natural Resources Conservation Service

RUSLE2 Profile Erosion Calculation Record

Cleona N

Inputs:
Location: USA\Iowa\Scott County
Soil: Scott County, Iowa\120C Tama silty clay loam, 5 to 9 percent slopes\Tama Silty clay loam 90%
Slope length (horiz): 200 ft
Avg. slope steepness: 7.0 %

Management	*Vegetation*	*Yield units*	*# yield units, #/ac*
managements\CMZ 04\c.Other Local Mgt Records\DITTMERcorn grain;FC, st pt, disk, fcult, z4	vegetations\Corn, grain	bushels	228.00

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

Outputs:
T value: 5.0 t/ac/yr
Soil loss erod. portion: 4.1 t/ac/yr
Detachment on slope: 4.1 t/ac/yr
Soil loss for cons. plan: 4.1 t/ac/yr
Sediment delivery: 4.1 t/ac/yr

Crit. slope length: 200 ft
Surf. cover after planting: 29 %
Avg. ann. forage harvest: 0 lb/ac

Date	*Operation*	*Vegetation*	*Surf. res. cov. after op, %*
11/1/0	Fert applic. surface broadcast		96
11/1/0	Manure injector, liquid low disturb.30 inch		96
11/3/0	Chisel, st. pt.		67
11/3/0	Disk, tandem secondary and rolling basket		67
4/28/1	Seedbed finisher, fld cult, chop, spk har, rlng bskt		29
5/1/1	planter, double disk opnr	Corn, grain	29
5/3/1	Sprayer, pre-emergence		29
6/7/1	Sprayer, post emergence and fert. tank mix		21
10/20/1	Harvest, killing crop 50pct standing stubble		91

USDA NRCS Natural Resources Conservation Service

RUSLE2 Profile Erosion Calculation Record

Cleona NE

Inputs:
Location: USA\Iowa\Scott County
Soil: Scott County, Iowa\120C2 Tama silty clay loam, 5 to 9 percent slopes, eroded\Tama Silty clay loam eroded 90%
Slope length (horiz): 200 ft
Avg. slope steepness: 7.0 %

Management	*Vegetation*	*Yield units*	*# yield units, #/ac*
managements\CMZ 04\c.Other Local Mgt Records\DITTMERcorn grain;FC, st pt, disk, fcult, z4	vegetations\Corn, grain	bushels	221.00

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

Outputs:
T value: 5.0 t/ac/yr
Soil loss erod. portion: 4.2 t/ac/yr
Detachment on slope: 4.2 t/ac/yr
Soil loss for cons. plan: 4.2 t/ac/yr
Sediment delivery: 4.2 t/ac/yr

Crit. slope length: 200 ft
Surf. cover after planting: 28 %
Avg. ann. forage harvest: 0 lb/ac

Date	*Operation*	*Vegetation*	*Surf. res. cov. after op, %*
11/1/0	Fert applic. surface broadcast		96
11/1/0	Manure injector, liquid low disturb.30 inch		96
11/3/0	Chisel, st. pt.		66
11/3/0	Disk, tandem secondary and rolling basket		66
4/28/1	Seedbed finisher, fld cult, chop, spk har, rlng bskt		28
5/1/1	planter, double disk opnr	Corn, grain	28
5/3/1	Sprayer, pre-emergence		28
6/7/1	Sprayer, post emergence and fert. tank mix		20
10/20/1	Harvest, killing crop 50pct standing stubble		90

USDA NRCS Natural Resources Conservation Service

RUSLE2 Profile Erosion Calculation Record

Cleona S

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

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

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

Outputs:
T value: 5.0 t/ac/yr
Soil loss erod. portion: 2.2 t/ac/yr
Detachment on slope: 2.2 t/ac/yr
Soil loss for cons. plan: 2.2 t/ac/yr
Sediment delivery: 2.2 t/ac/yr

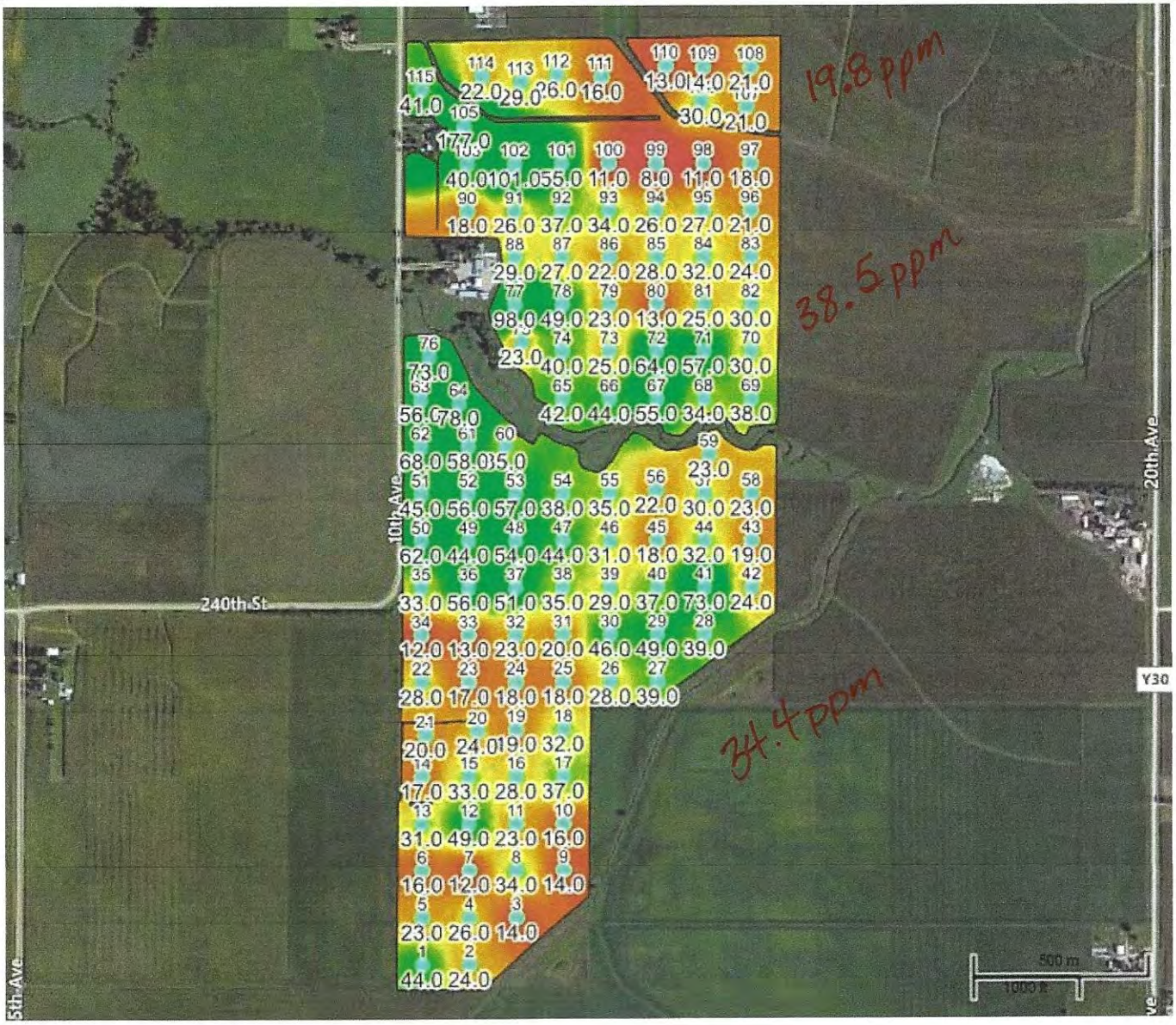
Crit. slope length: 200 ft
Surf. cover after planting: 30 %
Avg. ann. forage harvest: 0 lb/ac

Date	*Operation*	*Vegetation*	*Surf. res. cov. after op, %*
11/1/0	Fert applic. surface broadcast		96
11/1/0	Manure injector, liquid low disturb.30 inch		96
11/3/0	Chisel, st. pt.		68
11/3/0	Disk, tandem secondary and rolling basket		68
4/28/1	Seedbed finisher, fld cult, chop, spk har, rlng bskt		30
5/1/1	planter, double disk opnr	Corn, grain	30
5/3/1	Sprayer, pre-emergence		29
6/7/1	Sprayer, post emergence and fert. tank mix		21
10/20/1	Harvest, killing crop 50pct standing stubble		91

Soil Test Map Report - P

Grandview Farms Inc
Farm: Schlapkohl
Field Schlapkohl

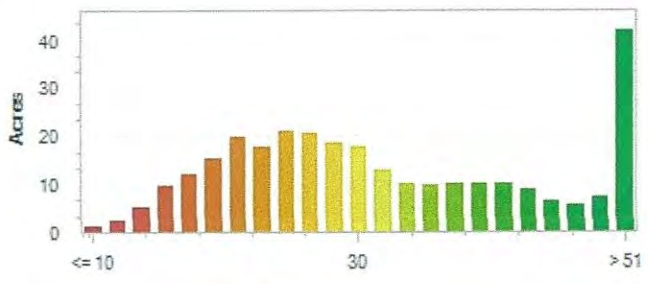
Area: 292.86
Sample Date Jun 14, 2019
Lab Name Waypoint Analytica



Location:
County: Scott, IA
Township:
Twp Rng Sec:

Summary Statistics
Layer Name Encirca Soil Test Layer
Sample Count 113
Minimum 8
Maximum 176.9
Average Rate 34.11
Weighted Average: 34.05

P ppm



Land Application Agreement

Agreed this date 7-15-2019 between JT Cleona Park It, LLC, herein known as "producer" and Grandview Land, LLC, herein known as "landlord."

The producer will apply manure generated at swine production facilities located at:
24155 10th Ave Stockton, IA 52769.

The landowner acknowledges the use of 265 acres of land by the producer for the spreading of manure and such land is located at:

See Attachment

This manure agreement will begin 7-15-19 for an initial term of one (1) year and continue thereafter for so long as the swine facility remains in operation. This agreement may be terminated by written notice signed by the parties involved. There needs to be at least 120 day notice of termination.

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

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

The producer shall provide the following information to the landlord:

1. Planned crop rotations.
2. Planned commercial fertilizer application.
3. Soil tests to meet producer MMP requirements (samples representing no more than 10 acres and 4 years old or less).

The landlord acknowledges that a lease exists with JT Cleona Park It, LLC concerning the cropping of said application land and this agreement is separate and independent from any cropping lease.

Producer JT Cleona Park It, LLC Landowner Grandview Land, LLC

By: Tim Sutton Mgr By: Tim Sutton Mgr

Date: 7-15-19 Date: 7-15-19

Legal Description – Schlapkohl 265 acres – Scott County

The S ½ of the NW ¼ excluding acreage, the east portion of the NE ¼ of the SW ¼, and the S ½ of the SW ¼ in Section 8, and the W ½ of the NW ¼, and the N ½ of the NE ¼ in Section 17, all in Township 79 North, Range 1 Est of the 5th P.M., Scott County, Iowa

Land Application Agreement

Agreed this date 7-15-2019 between JT Cleona Pork I+, LLC, herein known as "producer" and Dale Schlapkohl, herein known as "landlord."

The producer will apply manure generated at swine production facilities located at: 24155 10th Ave. Stockton, IA 52769.

The landowner acknowledges the use of 48 acres of land by the producer for the spreading of manure and such land is located at:

See Attachment

This manure agreement will begin 7-15-19 for an initial term of one (1) year and continue thereafter for so long as the swine facility remains in operation. This agreement may be terminated by written notice signed by the parties involved. There needs to be at least 120 day notice of termination.

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

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

The producer shall provide the following information to the landlord:

1. Planned crop rotations.
2. Planned commercial fertilizer application.
3. Soil tests to meet producer MMP requirements (samples representing no more than 10 acres and 4 years old or less).

The landlord acknowledges that a lease exists with JT Cleona Pork I+, LLC concerning the cropping of said application land and this agreement is separate and independent from any cropping lease.

Producer JT Cleona Pork I+, LLC Landowner

By: Its Mgr By: Dale Schlapkohl

Date: 7-15-19 Date: 7/18/19

June 14, 2019
VMCE #18106-DALE

LEGAL DESCRIPTION
DALE D. SCHLAPKOHL 70 ACRE TRACT
SCOTT COUNTY, IOWA

Part of the Southwest Quarter of Section 8, Township 79 North, Range 1 East of the 5th P.M., Scott County, Iowa, being more particularly described as follows:

Commencing at the northwest corner of the Southwest Quarter of said Section 8, said point being the POINT OF BEGINNING of the tract of land hereinafter described:

thence North 88°-04'-50" East 1694.01 feet along the north line of the Southwest Quarter of said Section 8;

thence South 01°-43'-05" East 1,800.00 feet;

thence South 88°-04'-50" West 1,694.01 feet to a point on the west line of the Southwest Quarter of said Section 8;

thence North 01°-43'-05" West 1800.00 feet along the west line of the Southwest Quarter of said Section 8 to the point of beginning.

Containing 70.00 acres, more or less, subject to the rights of the public for roadway purposes over the westerly 33 feet thereof.

Bearings stated herein are based on the Iowa State Plane Coordinate South Zone, (1402) GEOID 12A, NAD 83 (2011) EPOCH 2010.00.

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): _____
   b) Date when the operation was first constructed: _____
   c) Date when the last construction, expansion or modification was completed: _____

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

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

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

A) Name of operation: JT CLEONA PORK 1+, LLC

Location:

SW	SW	8	79N 1E	CLEONA	SCOTT
(¼ ¼)	(¼)	(Section)	(Tier & Range)	(Name of Township)	(County)

B) Applicant information:

Name: JT CLEONA PORK 1+, LLC Title: OWNER

Address: 12090 240TH ST. ELDRIDGE, IA 52748

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

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

Name: TOM DITTMER Title: PARTNER

Address: 12090 240TH ST. ELDRIDGE, IA 52748

Telephone: 563+-285-4006 Fax: _____ Email: TOM.DITTMER@GRANDVIEWFARMSINC.COM

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

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

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

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

ITEM 2 – SITING INFORMATION:

A) Karst Determination: Go to DNR AFO Siting Atlas at http://programs.iowadnr.gov/maps/afo/. 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:

The proposed construcation is of two(2) wean/finish hog barns, each 241'-4" long x 81'-2" wide x 8'-0" deep , blow-ground, covered, concrete manure storage. Pit fans to be located on 6'0" long x 6'0" wide x 8'0" deep pumpout ports. Water line will not enter building through manure storage structure. Each barn is planned to house 3400 head.

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

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

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

1. ☐ A swine farrowing and gestating operation with an AUC of 2,500 AU or more. If the replacement breeding swine are raised and used at the operation, the animal units for those replacement animals do not count in the operations total AUC 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 Proposed AUC (After permit)		
	(No. Head)	x (Factor)	= AUC	(No. Head)	x (Factor)	= AUC
Slaughter or feeder cattle		1.0			1.0	
Immature dairy cattle		1.0			1.0	
Mature dairy cattle		1.4			1.4	
Gestating sows		0.4			0.4	
Farrowing sows & litter		0.4			0.4	
Boars		0.4			0.4	
Gilts		0.4			0.4	
Finished (Market) hogs		0.4		4800	0.4	1920
Nursery pigs 15 lbs to 55 lbs		0.1			0.1	
Sheep and lambs		0.1			0.1	
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:			b) Total proposed AUC:	1920

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

c) New AU = b) - a): 1920

(This is the AUC of the operation)

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

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

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

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

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

Animal Species	a) Existing AWC (Before Permit)			b) Proposed AWC (After permit)		
	(No. head) x	avg weight	= AWC	(No. head) x	avg weight	= AWC
Slaughter or feeder cattle						
Immature dairy cattle						
Mature dairy cattle						
Gestating sows						
Farrowing sows & litter						
Boars						
Gilts						
Finished (Market) hogs						
Nursery pigs 15 lbs to 55 lbs						
Sheep and lambs						
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): Tom Dittmer Mgr Date: 9/18/19

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
Tom Dittmer	12090 240th St.	Eldridge/IA	52748
Joni Dittmer	12090 240th St.	Eldridge/IA	52748

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

Operation Name	Location (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 page		

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

Signature of Applicant(s): Tom Dittmer Mgr Date: 7/18/19

ITEM 9

Manure Storage Indemnity Fee Form for Construction Permits

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

Credit fees to: JT CLEONA PORK 1+, LLC

Name of operation: JT CLEONA PORK 1+, LLC

INSTRUCTIONS:

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

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

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

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

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

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

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

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

Indemnity Fee Table:

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

ITEM 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: JT CLEONA PORK 1+, LLC

Name of operation: JT CLEONA PORK 1+, LLC

INSTRUCTIONS:

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

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

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

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

SUMMARY:

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

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

ITEM 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: JT CLEONA PORK 1+, LLC Telephone: 563-285-4006

Name of operation: JT CLEONA PORK 1+, LLC

Location:	SW	SW	8	79N 1E	CLEONA	SCOTT
	(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)

THIS SECTION IS RESERVED FOR THE COUNTY

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

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

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

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

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

COUNTY: _____

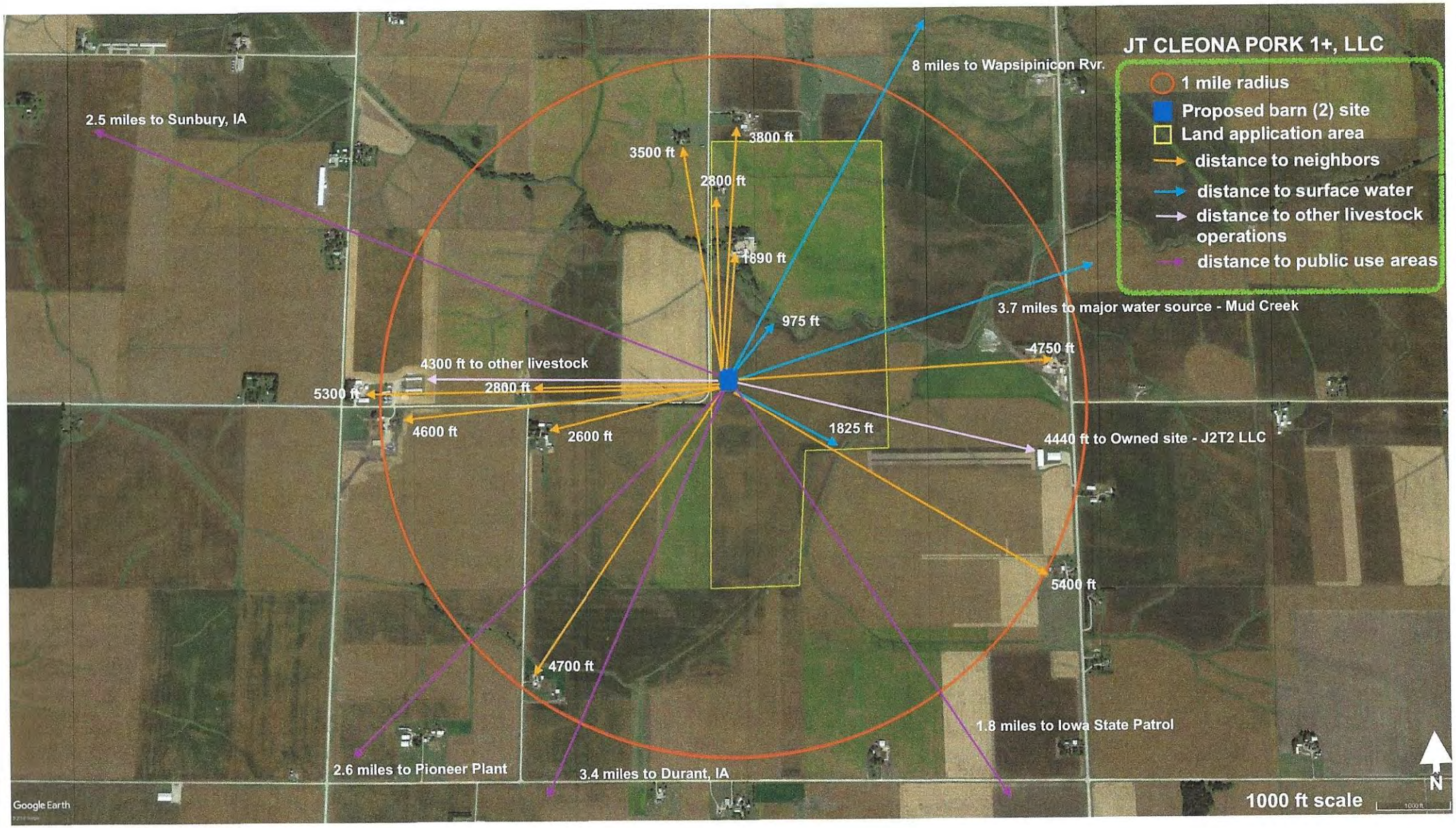
NAME: _____

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

Date: _____ , 20 _____ .

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

Home Sow	SW SW Sec. 7 T79N R3E Sheridan, Scott Co.	Eldridge
Walcott WF	NW SW Sec. 10 T78N R2E Blue Grass, Scott Co.	Walcott
Engler Site	SE NW Sec. 4 T79N R3E Sheridan, Scott Co.	Long Grove
DeWulf Site	SE SW Sec. 17 T80N R3E Winfield, Scott Co.	Eldridge
TJ WF(Cline)	NW NW Sec. 13 T79N R2E Hickory Grove, Scott Co.	Eldridge
TJ West	NW NE Sec. 24 T79N R1W Farmington, Cedar Co.	Durant
J2T2 LLC	NE NE SEC. 17 T79N R1W Cleona, Scott Co.	Stockton
Pioneer WF	NE NE Sec. 25 T79N R1W Farminton, Cedar Co.	Durant
JT Center Pork 2+	SW SE SEC. 22 T80N R2W Center, Cedar Co.	Tipton
JT Center Pork 1	SE SE SEC. 33 T80N 2W Center, Cedar co.	Tipton
JT Center Pork 3	NW NW Sec. 26 T80N R2W Center, Cedar Co.	Tipton
JT Farmington Pork	NE NW Sec. 7 T79N R1W Farmington, Cedar Co.	Tipton
JT Rochester Pork	NE NW Sec. 6 T79N R2W Rochester, Cedar Co.	Tipton
JT Allens Grove Pork	NE SE Sec. 32 T80N R2E Allens Grove, Scott Co.	Dixon


JT CLEONA PORK 1+, LLC
1 mile radius
Proposed barn (2) site
Land application area
distance to neighbors
distance to surface water
distance to other livestock operations
distance to public use areas
8 miles to Wapsipinicon Rvr.
2.5 miles to Sunbury, IA
3800 ft
3500 ft
2800 ft
1890 ft
975 ft
3.7 miles to major water source - Mud Creek
4750 ft
4300 ft to other livestock
2800 ft
5300 ft
4600 ft
2600 ft
1825 ft
4440 ft to Owned site - J2T2 LLC
5400 ft
4700 ft
1.8 miles to Iowa State Patrol
2.6 miles to Pioneer Plant
3.4 miles to Durant, IA
Google Earth
N
1000 ft scale


JT CLEONA PORK 1+, LLC
Proposed barn location
distance to ROW
* no designated wetlands, ag. drainage wells or known sinkholes within a mile.
Truck turn around
100 ft
Google Earth
©2018 Google
N
600 ft

JT Cleona Pork Site

Mud Creek

Looking south at curve couth of site

Looking south on 10th Av north of bridge on Mud Creek

Looking south on 10th Av north of Mud Creek