Office of the Redwood County Zoning Administrator

P.O. Box 130 Redwood Falls, MN 56283 (507)637-4023

ANIMAL CONFINEMENT FEEDLOT CONDITIONAL USE PERMIT APPLICATION

PERMIT #16-04

USE ONLY BLACK OR BLUE BALL POINT PEN OR TYPEWRITER

1. GENERAL DESCRIPTION OF FEEDLOT OPERATION [including type & number of animal units, barns & manure storage plan]: Short term - 299 Animal Units with Feedlot consisting of Partial Confinement barns and Concrete/dirt combination open lots. Long term - Possible expansion of approximatly 200 Animal Units.

2. PROPOSED LOCATION OF FEEDLOT OPERATION: SEC 1 TWP T112N RANGE R37W Township Name Sheridan

ROAD/STREET ADDRESS OF PROPOSED LOCATION: 27788 State Hwy 19 Redwood Falls, Mn.

If applicable:	Lot length	Front width	Rear width	Rear line	Right side	Left side
		1082		1082	774	875

PRESENT ZONING DISTRICT OF PROPOSED LOCATION [circle one]:

flood plain | scenic river | (agricultural) | rural residential | urban expansion | highway service business | limited industry

3. LEGAL DESCRIPTION OF PROPOSED FEEDLOT LOCATION: A tract in the NE Quarter (NE¼) of the NE Quarter (NE¼) Approx. 20 acres in size

4. THIS LAND IS OWNED BY: NAME: Lorretta Panitzke TELEPHONE (507) 641-3412

ADDRESS:. 34458 Iron Wood Ave, Redwood Falls, Mn. 56283

5. [If applicant is not the owner of the land] THE TYPE OF AGREEMENT APPLICANT HAS WITH THE OWNER OF THE LAND AT THE PROPOSED SITE IS Purchase Agreement / Contract for Deed

6. SITE/PLAN INFORMATION:

954B2 Ves Storden Loam
446 Normania Loam

A. SOIL TYPE AT BUILDING SITE IS [available from Natural Resource Conservation Service Office]: 113 Webster Clay Lo

B. WATER SOURCE WILL BE [circle one]: (WELL) | RURAL WATER | OTHER: _____

C. ESTIMATED WATER USE: 25 gallons/day/animal X 299 number of animals on site = 2.7 gallons/year/site

D. DRAINAGE SYSTEM WILL BE [circle one]: PERIMETER TILE | SUMP TO SURFACE | OTHER: NA

7. PROPOSED BUILDING(S) INFORMATION:

Existing	BLDG #:	WIDTH 50'	LENGTH 100'	HEIGHT 12'	SIDEWALL HEIGHT 7'	SIDEWALL THICKNESS
oop Barn	BLDG #: 3	WIDTH 30'	LENGTH 72'	HEIGHT 21'	SIDEWALL HEIGHT 8'	SIDEWALL THICKNESS
oopBarn	BLDG #: 10	WIDTH 30'	LENGTH 72'	HEIGHT 17'	SIDEWALL HEIGHT 4'	SIDEWALL THICKNESS
loopBarn	BLDG #: 5	WIDTH 30'	LENGTH 72'	HEIGHT 21'	SIDEWALL HEIGHT 8'	SIDEWALL THICKNESS

If additional buildings are planned & applied for, note dimensions on reverse side of this form.

8. EACH BUILDING WILL HAVE A MINIMUM SET-BACK FROM EVERY ROAD RIGHT OF WAY OF 67 FEET.

9. ESTIMATED DATE FOR BEGINNING CONSTRUCTION: Oct 20th 2004

10. GENERAL CONTRACTOR: NAME: Rod Paskewitz TELEPHONE (507) 627-1250

ADDRESS: 104 Baker Drive, Redwood Falls, Mn. 56283

11. ONLY if different from "Applicant." If operator not a natural person(s), also provide documentation of operator's legal identi

FEEDLOT OPERATOR'S NAME: NA TELEPHONE ( )

ADDRESS: _____

12. APPLICANT INFORMATION: NOTE: If applicant is NOT one natural person, requested information AND SIGNATURE(s) must be provided for each partner/associate/co-applicant and must include documentation of each co-applicant's legal identity & the legal relationship between them. EACH partner/associate/co-applicant must sign or affirm the application before it will be accepted for consideration.

NAME: Rodney D. Paskewitz TELEPHONE (507) 627-1250

ADDRESS: 104 Baker Drive Redwood Falls, Mn. 56283

I AFFIRM THAT THE FOREGOING INFORMATION IS TRUE AND ACCURATE. I UNDERSTAND THAT IF ANY PORTION OF THIS INFORMATION IS FALSE OR MATERIALLY MISLEADING, ANY CONDITIONAL USE PERMIT ISSUED IN RELIANCE UPON THIS INFORMATION IS VOIDABLE AT THE ELECTION OF REDWOOD COUNTY.

APPLICANT'S SIGNATURE: Rodney D. Paskewitz

RODNEY D. PASKEWITZ

A:\CUP-APP.NEW (adopted xx-xx-95)

AMENDED CONDITIONS FOR CONDITIONAL USE PERMIT #16-04

1. The permit holder shall comply with all governmental laws, rules, and regulations as they apply to the project.
2. Dead livestock shall be stored and rendered in a manner that will not create a nuisance. Disposal by burial is not allowed.
3. When feasible, all animal wastes from the proposed livestock barns shall be incorporated within 12 hours after application and spread according to agronomic rates as to the crops to be planted.
4. The permit holder shall allow the Zoning Administrator to inspect the site whenever the Administrator deems it necessary. However, the Zoning Administrator shall provide adequate notices in advance of any inspection that involves accessing a building in which livestock are confined.
5. The permit holder shall retain a record of the locations at which manure from this operation was land applied. These records shall be kept for no less than five (5) years from the date of the land application, and shall be submitted to the Redwood County Zoning Administrator upon request.
6. Conditional Use Permit #16-04 shall not be valid until a FLEval study has been conducted and a zero discharge rating has been obtained for the site. The FLEval study must be approved by the MPCA and the Redwood County Environmental Office.
7. Conditional Use Permit #16-04 shall not be valid until the Redwood County Environmental Office receives a letter from the MPCA approving the Manure Management Plan for the applicant's feedlot.
8. The crop ground directly south of the feedlot and pasture shall be maintained as a permanent vegetative buffer. The buffer shall be designed and maintained for the purpose of nutrient and sediment removal. The buffer shall be planted with vegetation recommended by the Redwood County Soil and Water Conservation District (SWCD) and the Redwood Cottonwood Rivers Control Area (RCRCA).

May 9, 2016

Anez Consulting, Inc.
1700 Technology Dr. NE, #130
Willmar, MN 56201

Mr. Brent Reiss
West Feedlot, Watershed Division
Minnesota Pollution Control Agency
504 Fairgrounds Rd. Suite 200
Marshall, MN 56258

Re: Mike Paskewitz, Registration Number 127-103040

Dear Mr. Reiss;

Please find enclosed a Construction Short Form Permit Application for the above referenced feedlot. No new construction is proposed, only an increase in animal numbers. A site plan showing the feedlot components with open lot runoff controls is also included with MinnFARM computer modeling performed in support of the runoff controls at the site.

If you have any questions regarding the application or this letter, please contact me.

Regards,

Alan D. Larsen, PE
Anez Consulting, Inc.

Enclosures

Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

Construction Short-Form and Interim Permit Application

for an Animal Feedlot or Manure Storage Area

Doc Type: Permit Application

Instructions: This form must be completed for Construction Short-Form and Interim Permits. The completed forms must be submitted to the Minnesota Pollution Control Agency (MPCA) or County Feedlot Officer in MPCA Delegated Counties.

Registration No.: 127-103040

I. Owner's Name(s) and Address(es) (Use an asterisk (*) to indicate the primary owner for the facility if more than one owner is listed.)

Name: Mike Paskewitz
Address: 27788 State Highway 19
City: Redwood Falls
State: MN Zip: 56283
Phone: 507-438-0276

Name:
Address:
City:
State: Zip:
Phone:

Note: If there are more than two owners, attach to this application the names, addresses, and phone numbers of all additional owners. Under Minn. R. 7020.0300, subp. 17, the term owner includes all persons having possession, control, or title to an animal feedlot or manure storage area. All such persons must be listed on this application form. At least one owner must the sign the permit application in Section XIV. **If this is a Limited Liability Partnership (LLP) all partners must be listed.**

A. Have the owner(s), partner(s), or operator(s) had a criminal conviction(s) in state or federal court in the past five years involving violations of environmental rules, laws, or statutes? ☐ Yes ☒ No
If Yes, please describe:

B. Do you have an agreement to transfer whole or partial ownership of the facility for which you are seeking a permit within the five-year term of the permit? ☐ Yes ☒ No
If Yes, please identify the names of all persons or entities whom you will be transferring whole or partial ownership of the facility to:

II. Facility Name and Address (Complete if facility name/address is different than information listed above.)

Legal name of facility:
Street: same as above
City:
State/Zip:
Phone:

III. Contact Person for Facility (This is the person MPCA contacts regarding day-to-day activities at the facility.)

Name: Mike Paskewitz
Street: 27788 State Highway 19
City: Redwood Falls
State/Zip: MN 56283
Phone: 507-438-0276
Cell phone:
E-mail:
(General letters/notices may be sent by e-mail where one is indicated.)

IV. Preferred Mailing Address

Permit, reports, and other correspondence should be mailed to (check only one):

☒ Owner address in Section I (use* if more than one) ☐ Facility address in Section II ☐ Contact person in Section III

V. Facility Location

County: Redwood **Township name:** Sheridan

Township (26 – 71 or 101 – 168)	Range (1 – 51)	Section (1 – 36)	¼ of ¼ Section: (NW, NE, SW, SE)	¼ Section (NW, NE, SW, SE)	Latitude	Longitude
T 112 N	R 37 W	1	W 1/2	NE	44.540998	-95.233339

VI. Reason for Application and Previous Permit Information

A. **List any existing feedlot permits:** 127-103040

B. **Reason for application (check all that apply):**

- ☐ 1. Original application for a CSF or Interim Permit.
- ☐ 2. Request for reissuance of an existing CSF or Interim Permit.
- ☐ 3. Request for modification of an existing CSF or Interim Permit.
- ☐ 4. Proposed new feedlot or manure storage area.
- ☐ 5. Proposed reuse of an existing feedlot or manure storage area not used for five (5) years or more.
- ☒ 6. Proposed increase in animal numbers at an existing feedlot.
- ☐ 7. Proposed expansion or modification of an existing liquid or solid manure storage area.
- ☐ 8. Proposed change in operation not described in 4 to 7, describe:

VII. Animal Numbers and Animal Unit (AU) Calculation

All animal numbers and animal sizes used to complete this table are to reflect the actual site conditions and should be based on the maximum weight and number of animals to be held at the facility at any one time. At no time is the number of animals at the facility allowed to exceed the capacity provided below and the type and size of animal are to remain the same.

If you have an existing facility, list the maximum number of animals held at any given time for each existing animal type in column 3 below. Next, multiply the AU Factor in column 2 by the number of animals listed in column 3 to get the *Existing AU Capacity* for each animal type (column 4) (do not round off numbers). Add the AU capacity numbers in column 4 for a total and enter the existing total at the bottom of the chart (do not round off numbers). *If a new facility is being proposed, leave columns 3 and 4 blank.*

For both new and existing facilities, in column 5 list the proposed maximum number of animals that will be held at the facility at any given time during the five year duration of the permit. Next, multiply the AU Factor in column 2 by the number of animals listed in column 5 to get the *Maximum AU Capacity* for each animal type (column 6) (do not round off numbers). Note: the number in column 5 should include existing animals plus or minus any expansion or reduction in each animal type. Add the AU capacity numbers in column 6 for the Final AU Total and enter the total at the bottom of column 6 (do not round off numbers).

1. Animal type	2. Animal Unit factor	3. Existing number of animals (leave blank if new site)	4. Existing AU capacity = column 2 x column 3	5. Maximum number of animals (for new or after expansion)	6. Maximum AU capacity = column 2 x column 5
A. Dairy cattle					
Mature cow (milked or dry) over 1,000 pounds	1.4				
Mature cow (milked or dry) under 1,000 pounds	1.0				
Heifer	0.7				
Calf	0.2				
B. Veal					
Veal	0.2				
C. Beef cattle					
Slaughter steer/heifer, stock cow, or bull	1.0	299	299	499	499
Feeder cattle (stocker or backgrounding), heifer	0.7				
Cow and calf pair	1.2				
Calf (weaned)	0.2				
D. Swine					
Over 300 pounds	0.4				
Between 55 and 300 pounds	0.3				
Under 55 pounds	0.05				
E. Horses					
Horse	1.0				
F. Sheep					
Sheep or Lamb	0.1				
G. Chickens with a LIQUID manure system					
Layer Hens or Broilers	0.033				
H. Chickens with a DRY manure system					
Broilers over 5 pounds	0.005				
Broilers under 5 pounds	0.003				
Layer Hens over 5 pounds	0.005				
Layer Hens under 5 pounds	0.003				
I. Turkeys					
Over 5 pounds	0.018				
Under 5 pounds	0.005				
J. Ducks					
Duck (with a liquid manure handling system)	0.01				
Duck (with a dry manure handling system)	0.01				
K. Animals not listed in A to J (AU factor in column 2 = average weight of the animal type divided by 1,000 pounds)					
Animal type 1: _____	1: _____	1: _____	1: _____	1: _____	1: _____
Animal type 2: _____	2: _____	2: _____	2: _____	2: _____	2: _____

Total animal unit capacity	Existing AU Total		Final AU Total
Add all numbers in column 4 for Existing AU total			
Add all numbers in column 6 for Final AU total	299		499

VIII. Buildings, Lots, Manure Handling, Feed, and Dead Animal Storage Areas

Complete the table below for your animal holding, manure storage, feed/silage storage, and dead animal disposal areas. A list of common facility types is provided to choose from or describe it in your own terms. If you have more than six animal holding, manure storage, feed/silage storage areas, and dead animal disposal areas on your site, please attach a separate sheet that includes the information requested below for each additional facility. Each of the facilities listed below should correspond to those provided on the sketch required in Section XI on page 6 of this application.

A. Facility number	LOT A	LOT B	LOT C	LOT D	LOT E	LOT F
Write "Existing", "New", or "Eliminating"	Existing	Existing	Existing	Existing	Existing	Existing
B. Types of Animal Confinement Areas	*Write approximate dimensions in feet in the space below (width x length)*					
Total confinement barn						
Partial confinement barn	40' x 100'		75' x 27'	40' x 20'	65'x154'	
Open lot with runoff controls	7980 ft²	9510 ft²	11,230 ft²	14,413 ft²	6,680 ft²	5,120 ft²
Open lot without runoff controls						
Pasture access	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
C. Facility floor type	*Place "X" in box that best describes component floor type*					
Slats over manure storage						
Concrete slab						
Earthen or dirt	X	X	X	X	X	X
Other (describe):						
D. Liquid storage areas	**Write approximate top dimensions in feet in the space below (width x length x depth)**					
Earthen or soil lined						
Poured reinforced concrete						
Composite lined						
Above-ground concrete tank						
Fiberglass-lined steel tank						
Concrete block or stave pit						
Milk center wastewater storage						
Feed/silage runoff storage						
Other (describe - include other process wastewater storage):						
E. Handling areas for solid manure, feed and dead animals	**Note approximate dimensions in feet (width x length x depth)**					
Stacking slab						
Stockpile						
Manure pack on lot or floor	40' x 100' x 1'	75' x 27' x 1'	40' x 20' x 1'	65' x 154' x 1'	7980 ft² x 1'	9510 ft² x 1'
Feed storage areas – (describe if covered or uncovered)						
Dead animal treatment						
Other (describe):						
F. Animal Numbers	***Note: these animal numbers should total the same as proposed animal numbers listed on page 2***					
Mature dairy cows (over 1,000 lbs)						
Mature dairy cows (under 1,000 lbs)						
Dairy heifers						
Dairy calves						
Veal						
Slaughter steer/heifer, stock cow or bull	60	30	80	80	100	149
Feeder cattle-stocker/background/heifer						
Cow and calf pair						
Beef calves (weaned)						
Swine over 300 lbs						
Swine between 55 and 300 lbs						
Swine under 55 lbs						
Horses						
Sheep or lamb						
All chickens w/liquid manure system						
Broiler chickens over 5 lbs - dry system						
Broiler chickens under 5 lbs - dry system						
Laying hens over 5 lbs - dry system						
Laying hens under 5 lbs - dry system						
Turkeys - over 5 lbs						
Turkeys - under 5 lbs						
Ducks						
Others (list types): 1.						

IX. Soils, Location, Surface Water, and Ground Water Features

A. Soils.

List the soil type or texture and depth to saturated soils at the facility as identified in the U.S. Department of Agriculture (USDA) Soil Survey Manual for your county or from a site-specific soil investigation. Owners submitting manure storage area plans and specifications, as required in Section XIII, item D., of this application, with a completed soils investigation should write **"see enclosed"** if included.

1. Soil type(s) or texture(s): Loam
2. Depth to seasonal high water table or saturated soils: 27-43" - From WSS

B. Sensitive areas.

The following information is needed to determine compliance with location restrictions. Questions 1 and 2 relate to restrictions in Minn. R. chapter 7020. Questions 3 to 7 are necessary to evaluate mandatory Environmental Assessment Worksheet (EAW) requirements under Minn. R. 4410.4300, for new facilities of 500 AU or more and existing facilities expanding by 500 AU or more. Please answer if the facility (existing and proposed) is located wholly or partially in any of the following sensitive locations:

1. Shoreland:
   a. Are there any rivers or streams within 300 feet of the feedlot? ☐Yes ☒No
   b. Are there any lakes or ponds with designated shoreland within 1,000 feet of the feedlot? ☐Yes ☒No

   If you answered yes to (a) or (b), list the names of these water bodies and the approximate distance (in feet) to the feedlot.

   Name: _____ Approximate distance: _____

   Name: _____ Approximate distance: _____
2. A delineated flood plain? ☐Yes ☒No
3. A state or federally designated wild and scenic river district? ☐Yes ☒No

   If yes, name: _____
4. The Minnesota River Project Riverbend Area? ☐Yes ☒No
5. The Mississippi Headwaters Area? ☐Yes ☒No
6. A drinking water supply management area delineated under chapter 4720 where the aquifer is identified in the wellhead protection plan as vulnerable to contamination? ☐Yes ☒No
7. Within 1,000 feet of a known sinkhole, cave, resurgent spring, disappearing spring, Karst window, blind valley, or dry valley? ☐Yes ☒No

   If yes to question 7, is the facility within 300 feet of a sinkhole? ☐Yes ☐No

C. Wells.

The following information is needed to determine compliance with Minnesota Department of Health Well Codes and Minn. R. 7020.2005.

1. Is the facility located within 100 feet of a private well? ☐Yes ☒No
2. Is facility located within 1,000 feet of the following types of wells: a community water supply well, a well serving a public school as defined under Minn. Stat. §120A.05, a private school, excluding home school sites, or a licensed child care center where the well is vulnerable according to Minn. R. 4720.5550, subp. 2? ☐Yes ☒No
3. What is the shortest distance (in feet) from an animal holding area to a well?

   Building/lot number from page 3: C Approximate distance: 140
4. What is the shortest distance (in feet) from a manure storage area to a well?

   Structure/area number from page 3: C Approximate distance: 140

D. Surface tile intakes.

Are any surface tile intakes within 1,000 feet of animal holding, manure storage areas, or any other part of the production facility? ☐Yes ☒No

Building/lot number from page 3: _____ Approximate distance: _____

X. Manure Management

The type of manure management plan required for your facility depends on whether you transfer ownership of your manure to another person. Begin with part X.A. and follow the instructions to determine if you transfer ownership and which type of manure management plan you need to complete.

A. Transferred manure.

1. Answer questions 1.a. and 1.b. below to see if you (the feedlot owner/operator) transfer ownership of any of your manure.

   a. Is all manure from your feedlot applied onto land that is owned, leased, or rented by yourself? Yes ☐ No ☒

   If you answer **"Yes"** then you do not transfer ownership of your manure and you can move on to Section X.B.

   If you answer **"No"**, go to the next question (1.b.).

   b. For ***all*** manure application sites not owned, leased or rented by the feedlot owner/operator, have you (the feedlot owner/operator) or employees working under your direction been given control of the field and nutrient planning decisions, including planning for nutrient rates, timing and methods? Yes ☐ No ☒

   For fields where the answer is **"Yes,"** ownership of manure is ***not*** transferred and you can move on to item B (non-transferred ownership).

   For fields where the answer is **"No,"** manure ownership is considered to be transferred and you ***must*** complete item 2, below.

2. If all or part of the ownership of your manure is transferred, complete items a. through c., below.

   a. Approximately how much of your manure (in tons or gallons) has transferred ownership?
   100%

   b. For all manure where ownership is transferred, complete the manure management plan requirements as described in the MPCA guidelines "Manure Management Plan Requirements when Ownership of Manure is Transferred", which can be found at the MPCA website at: http://www.pca.state.mn.us/hot/feedlot-management.html. For an Interim Permit submit the manure management plan with this permit application. For a Construction Short Form permit, be prepared to submit the plan if requested by your County Feedlot Officer or MPCA staff person.

   c. Where a land application agreement(s) exists for application of transferred manure to neighboring land how many acres are available under the access agreement(s)?

   Are the signed land application agreements enclosed? Yes ☐ No ☒
   (see example agreement form at the MPCA website at:
   http://www.pca.state.mn.us/publications/feedlots-landappagreementform.pdf)

B. Non-transferred manure.

For all other manure (where ownership of manure is ***not*** transferred), complete items 1 and 2, below.

1. List the number of acres available for spreading non-transferred manure:

   Acres owned: _____ Acres rented/leased: _____

   Other acres where the feedlot owner/operator controls field and nutrient planning decisions: _____

   Are signed land application agreements enclosed for these acres? Yes ☐ No ☐
   (see example agreement form at the MPCA website at:
   http://www.pca.state.mn.us/publications/feedlots-landappagreementform.pdf)

2. Prepare a manure management plan that includes the required items in the MPCA guidelines "Manure Management Plan Requirements when Ownership of Manure is Transferred", which can be found at the MPCA website at: http://www.pca.state.mn.us/hot/feedlot-management.html.

XI. Site Sketch

Use this page to draw a sketch of the existing facilities and any proposed facilities. The sketch must show the location of buildings, manure storage areas, silage and feed storage areas, milking center wastewater storage or treatment areas, and runoff control structures. The sketch must also show all tile inlets, wells, rivers or lakes, sinkholes, and water courses within 1,000 feet of the facility. Show the approximate path that water running off outside lots follows. **Label barns, open lots, and manure storage areas on this sketch with the same number that each structure is listed under Part VIII. on page 3 of this application (i.e., Barn #1 on page 3 should be labeled #1 on the sketch).**

☒ *See attached map*

XII. Required Notifications for Permit Application Process

The notifications under Items A through C are required to be done during the permit application process. Additional notices are required to be made by the feedlot owner/operator in accordance with 1) Minn. R. 7020.2002 during removal of manure; 2) Minn. R. 7020.2100, subp. 5, for construction of a liquid manure storage system; and 3) Minn. R. 7020.2125, subp. 4.E., for construction of a permanent manure stockpile area.

A. All facilities: Notice to county, township, and city authorities.

An owner of an animal feedlot or manure storage area (facility) proposing to construct a new or expand an existing facility of any AU capacity shall complete the information listed below and submit a copy to all local units of government that may have zoning authority over the project (e.g., if the project is located in a township, submit the form to the township ***and*** to the county).

Name of owner(s) or legal name of facility: Mike Paskowitz
(Please Print)

Location: Redwood (*County*) Sheridan (*Township*) 1 (*Section*) NE (*¼ Sec.*) W 1/2 (*¼ of ¼*)

Type (species) of livestock: Beef Total AUs: 499

Type(s) of confinement buildings, lots, and animal holding areas: Partial confinement barns with open lots and pasture

Type(s) of manure storage areas: Manure pack on the ground

List the local authorities that have been notified: County: Redwood Township and/or city: Sheridan

B. 500 or more AU: Notice to residents and property owners within 5,000 feet of a proposed project.

1. ***Notice Methods.*** An owner of an animal feedlot or manure storage area that is **proposing to construct a new or expand an existing facility** to house 500 AU or more, or store the manure generated by 500 AU or more (after construction or expansion), shall not less than 20 business days before the anticipated issuance date of the permit, provide notice to each resident and each owner of real property within 5,000 feet of the perimeter of the proposed facility. This notice must be completed in one of the following methods:
   - *Newspaper Notice.* Publish in a newspaper of general circulation within the affected area a notification containing the information listed in item A., above.
   - *Written Notice:* Send a written notice to each resident and owner of real property containing the information listed in item A. above. This notice may be delivered by first-class mail or in person.
   - *Conditional Use Permit Notice:* Provide equal or greater notification than that required in item A. above as part of obtaining a county Conditional Use Permit.
2. **Verification of Notice.** I have attached the information that documents that the necessary steps have been taken to complete the notice method not less than 20 days before I expect my permit to be issued. This information consists of one or more of the following forms of notice (check all that apply):
   - ☐ A list of all parties, with their location, that were personally visited with a date and signature from each party.
   - ☐ A list of all parties, with their location, that were personally visited with certification signed by a notary public indicating in detail what was discussed.
   - ☐ A list of all parties, with their location, that were notified by certified mail and copies of all signed certified mail return receipts.
   - ☐ An affidavit of publication from the newspaper used to provide this notification.

C. Public meeting for facilities with less than 1,000 AU.

If your facility:

- Will have a capacity of less than 1,000 AU.
- Is constructing a new facility or expanding an existing facility.

Has a public meeting been held, or will a public meeting be held, where citizens will be provided an opportunity to give input regarding your facility? Yes ☐ No ☒

If "Yes", provide the date (mm/dd/yyyy): _____

XIII. Required Enclosures (Permit applications submitted without all required enclosures are incomplete.)

A. **Site Sketch** required under Section XI.

B. **Aerial Photograph** of the land within 1,000 feet of the facility. The aerial photograph must show the location of buildings, manure storage areas, silage and feed storage areas, dead animal storage areas, milking center storage or treatment areas, and runoff control structures.

C. **Manure Management Plan** including the information listed in Section X (interim permit applications only; submit the manure management plan with construction short form applications when requested by the County Feedlot Officer or MPCA staff person).

D. **Plans and Specifications for construction** of any liquid manure storage area. If construction, expansion, or modification of a liquid manure storage structure is proposed as part of this permit application, plans and specifications that meet the requirements in Minn. R. 7020.2100 are to be developed and submitted with this application. If construction, expansion, or modification of a permanent manure stockpile site is proposed as part of this permit application, and the stockpile site requires a liquid manure storage area for runoff containment, the owner must include plans and specifications required in Minn. R. 7020.2100.

E. **Notifications** required under Section XII.

XIV. Applicant's Agreement and Certification

I, the undersigned applicant(s), in accordance with Minn. R. chapter 7020 for the control of pollution from animal feedlots and manure storage areas and the Code of Federal Regulations 40 § 122, hereby apply to the MPCA for a permit to construct, expand, and/or operate an animal feedlot or manure storage area under a construction short form and/or an interim permit. I certify that, in accordance with Minn. R. 7020.0505, subp. 4, item E, and 40 CFR 122.21, I will submit additional information relating to the facility design, construction, or operation as requested by the MPCA to evaluate compliance with applicable federal and state laws and rules.

I hereby certify that the design, construction, and/or operation of the facility described in this permit application will be in accordance with the plans, specifications, reports, and related communications approved by the MPCA or delegated county feedlot pollution control officer and on file in its office; and in accordance with the conditions that have been or may be imposed in the permit or any applicable regulations or standards of the MPCA. I further certify that the design, construction, and operation of the facility will be in full compliance with the MPCA feedlot rules, Minn. R. chapter 7020.

I also certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Applicant's signature

Print name: Mike Paskewitz Print official title: Owner

Office phone: 507-641-4040 Cell phone: 507-438-0276

Signature: [signature] Date (mm/dd/yyyy): 5/6/16

Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

Manure Management Plan (MMP) Requirements when Ownership of Manure is Transferred

Feedlot Program

Doc Type: Permit Information Form

MMP Information on Page 5

Are you transferring ownership of manure?

MMP and record keeping requirements for feedlot owners are different when manure ownership is transferred. Manure ownership is not considered to be transferred (i.e., feedlot owner/operator retains ownership) when you answer "yes" to either question:

1. ☐ Yes ☒ No Is manure from the feedlot facility applied onto land that is owned, leased, or rented by the feedlot owner/operator?
2. ☐ Yes ☒ No For manure application sites not owned, leased, or rented by the feedlot owner/operator, have you as the feedlot owner/operator or employees working under your direction been given control of the crop and nutrient planning decisions, including planning for manure application rates, timing, and methods?

If you answered "Yes" to either question, you are retaining ownership of manure, and you should see the Minnesota Pollution Control Agency (MPCA) guidelines "Manure Management Plan Requirements" which describe requirements when manure ownership is not transferred (found on the MPCA website at http://www.pca.state.mn.us/index.php/view-document.html?gid=3537). If you answered "No" to both questions, then you are transferring ownership of your manure and the feedlot operator may use these guidelines to complete a MMP.

If only a portion of your manure is considered to have transferred ownership, then use these guidelines for the manure which has transferred ownership, and develop the more comprehensive MMP for the manure which does not have transferred ownership.

MMP Development

The MMP can be developed by answering the questions below or by using other formats that include all required information in Minn. R. ch. 7020.

Name of feedlot facility or operator: Mike Paskewitz Registration No.: _____

1. **Describe the manure storage and handling system and the expected amount of manure and nutrients that will need to be land applied.**

   a) How is the manure stored and handled? What happens to the manure from the time it is generated to the time it is either sold or land applied? Where is it kept? For how long?

   The manure is stored as a solid pack on the floor of barns and open lots for up to 12 months

   b) How many months can manure be stored before the storage capacity is exceeded?

   12

   c) When will manure be provided to the recipient? Which months do you expect that manure will be applied?

   September, October, November

   d) How much manure is removed from barns or storage areas per year? How much manure will eventually need to be land-applied?

   Amount removed from barns or storage: 4,491 ☒ Tons ☐ Gallons

   Amount land applied: 4,491 ☒ Tons ☐ Gallons

   e) How much of this manure will be transferred ownership: 100%

f) How many pounds of nitrogen (N) and phosphorus (P_2O_5) will need to be land applied per year? (Multiply the expected nutrient content from Part 3.c) by the amount of manure land applied from Part 1.d) to get your answer.) (e.g., 77 pounds N ÷ 1,000 gallons x 1,300,000 gallons = 100,100 pounds of N **or alternatively** 45 pounds per ton x 3,000 tons = 135,000 pounds of N) (figure P_2O_5 using the same calculations)

N: 11 *4,491 = 49,401 pounds N P_2O_5: 7 * 4,491 = 31, 437 pounds P

g) For new or expanding feedlot facilities, is there enough land potentially available for spreading manure in accordance with allowable rates? ☒ Yes ☐ No

How will you ensure that enough land owners in the area are willing to purchase your manure or otherwise receive your manure? (e.g., enough land to allow spreading in accordance with state nutrient rate limits)

Land Application Agreement is in place

2. Describe the manure application methods and equipment.

a) How will the manure be applied? What method(s) and type(s) of equipment do you expect will be used for manure application by the recipient of your manure, if known?

Manure is applied by a solids spreader and incorporated in the soil within four days.

3. Describe your nutrient testing methods, the frequency of testing, and the expected nutrient content of the manure to be applied.

a) How often will manure be sampled and sent to a laboratory for nutrient analysis? (Minimum state requirements are: annual sampling at NPDES-permitted facilities; annual sampling for the first three years and once every four years for other feedlots.)

yearly

b) How will the manure samples be collected to ensure that representative samples are obtained for nutrient analysis? (e.g., How many subsamples? When collected? Where collected? University of Minnesota Extension Service publications may be referenced.)

Composite sample taken when loading spreaders.

c) What is the expected nutrient content of manure to be collected? (e.g., What is the nitrogen and phosphorus content expected from each major type of manure storage area?

N: 11 ☒ Pounds per Ton ☐ Pounds per 1,000 Gallons

P_2O_5: 7 ☒ Pounds per Ton ☐ Pounds per 1,000 Gallons

4. Describe how Minnesota's manure application requirements will be provided to manure recipients.

a) Attach a copy of the state manure application requirements that you will provide to all recipients of your transferred manure. Will you be using Attachment A or another list of state requirements?

Yes

b) How will you, as a feedlot owner/operator, maintain records associated with the manure transfer and land application sites/rates? Will you use MPCA recordkeeping forms for transferred ownership (Attachment B) or will you use a different form? **Note:** Attachments A and B can be obtained from MPCA offices or on the MPCA website at http://www.pca.state.mn.us/hot/feedlot-management.html.

Attachment B will be used for record keeping purposes

c) How will you provide the manure recipient with manure nutrient test results and expected manure nutrient content? You may use Attachment B or other forms which include test results.

Attachment B or other acceptable forms will be used.

Attachment A – Summary of State Requirements for Recipients of Transferred Manure and Table for Rate Calculation

I. Rate Limits

Match N needs - Limit rates so that estimated plant-available N from all manure and fertilizer sources combined does not exceed expected crop N needs for the upcoming crop unless rates are limited by P (see section II)

Legumes - Crop-available manure N applied to legumes can not exceed 3.5 lbs N per bushel of soybeans; 50 lbs N per ton of alfalfa; 27 lbs N per ton grass hay or pasture; 43 lbs N per ton grass/legume; 45 lbs N per ton red clover.

Base on Univ. of Minn. recommendations – Determine crop nitrogen needs and the amount of nitrogen available from manure or legumes from most recent published recommendations of the University of Minnesota Extension Service or another land grant college in a contiguous state. Contact MPCA staff if you need the most recent Univ. of Minn. recommendations.

Base rates on: crop sequence, expected yields and soil organic matter category when applicable, previous year manure credits, method of application, and manure analysis nutrient levels.

Calibrate equipment – Calibrate equipment regularly and apply evenly to ensure that the intended rates of application are consistent with actual rates of application.

Summer applications – Plant a cover crop where manure is applied in June, July or August to harvested fields that would otherwise remain without crop cover for the rest of the growing season. Use a soil nitrate test during the following spring to credit remaining nutrients.

II. Soil Phosphorus (P) Management

Soil P Testing – Test soils for P at least once every four years.

Avoid P Build-Up Along Waters – Manage manure additions (crop P removal can be used as a guide, don't exceed removal over time) so that soil P levels do not show increase within 300 feet of certain waters*, except where soil P is insufficient for crop growth (less than 21 Bray P-1 or 16 Olsen), or where a 50-100' vegetative buffer is established along waters.

Avoid Extremely High P Soils – Avoid manure application onto fields where soils exceed P levels in the table below, unless a plan is submitted to the MPCA or County Feedlot Officer that describes how water pollution will be prevented when applying manure to these soils.

Soil Test Method	Outside of 300 ft from waters*	Within 300 ft from waters* and open tile intakes
Bray P1	150 ppm	75 ppm
Olsen	120 ppm	60 ppm

"waters" refers to lakes, streams, intermittent streams, wetlands over 10 acres, and drainage ditches without protective berms.

III. Setbacks When Applying Manure in Sensitive Areas

Feature	Surface Application	Incorporation Within 24 hrs
Lakes, Streams	300'*	25'
Wetlands (10+ ac)	300'*	25'
Ditches w/o Berms	300'*	25'
Open Tile Intakes	300'	0'
Sinkholes w/o Berms		
Downslope	50'	50'
Upslope	300'	50'
Wells and Quarries	50'	50'

** 100' vegetated buffer can be used instead of 300' setback for non-winter applications (50' buffer for wetlands/ditches)*

IV. Keeping records

The cropland manager where manure is applied must keep records for at least three years (six years if applying manure near waters):

- Manure nutrient test results (provided by feedlot owner), Field locations and acreage, Dates of application and timing of incorporation, Amount of manure applied per acre, Total N and P applied on each field, and Soil nutrient test results.
- If manure is applied in during the winter, record the land slopes, distance to nearest water, and field conservation practices in place.

V. Short-Term Stockpiling Practices

Follow all stockpiling setbacks for waters and conduits to waters (ranging from 50 to 300 feet); avoid sandy soils and high water table soils (<2'); avoid slopes over 6%; use diversions if slopes exceed 2%; and keep records as required in Minn. R. ch. 7020.2125. The stockpile size must not exceed the amount of manure needed to supply nutrient needs to the tract of land where applied.

VI. Spills

If manure spills occur that have the potential to pollute waters, immediately contact the state duty officer at 1-800-422-0798.

VII. Manure Rate Calculator

If the P management requirements (see Section II) are being met, the calculator can be used at the time of application to determine the manure rate to apply at N-based rates.

Field Location: Twnsp _____ Sec__ 1/4___

	N	*Example*
Step 1. N needs of crop (lb/acre) (base the N needs as described in Sec I)		*130 lb/a*
Step 2. Total N in manure (lb/ton or lb/1000 gallons)		*50 lb/1000 gal*
Step 3. Take step 2 value & multiply by applicable % factor from table 2 below. (% ranges from .20 to .80)		*50 X .80 = 40*
Step 4: Divide the number from step 1 by the number in Step 3.		*130/40 = 3.25*
Step 4 is in tons/acre or 1000 gal/acre		*3,250 gal/a*

Table 2. Manure nitrogen availability and loss as affected by method of application and animal species.

	Surface broadcast – Incorporation[1]			Injection	
	None	< 4 days	< 12 hours	Sweep	Knife
	% Total N				
Beef					
Year 1	25	45	60	60	60
Year 2	25	25	25	25	25
Lost[2]	40	20	5	5	10
Dairy					
Year 1	20	40	55	55	50
Year 2	25	25	25	25	25
Lost[2]	40	20	10	5	10
Swine					
Year 1	35	55	75	80	70
Year 2	15	15	15	15	15
Lost[2]	50	30	10	5	15
Poultry					
Year 1	45	65	70	NA	NA
Year 2	25	25	25	NA	NA
Lost[2]	30	20	5	NA	NA

For more detailed information on these specific requirements contact MPCA or go to the link:
http://www.pca.state.mn.us/index.php/topics/feedlots/feedlot-nutrient-and-manure-management.html?menuid=&redirect=1

Attachment B - Records when manure ownership is transferred - 300 or more animal units

Records for feedlot owners (manure generator) and commercial applicators

Pads of triplicate carbon copies of this form, along with instructions, are available from the MPCA.

Copy 1: Kept by feedlot owner where manure is generated after completion of step #1.
Copy 2: Kept by applicator after completion of step #3.
Copy 3: Returned to feedlot owner where manure was generated after completion of step #3.

Step 1: Manure Generation. *Completed by feedlot owner where manure is generated.*

Name of facility where manure generated: _____

Mailing address: _____

City: _____ State: _____ Zip code: _____

Phone: _____ Fax: _____ E-mail: _____

Date(s) of transfer (mm/dd/yyyy): _____ **Total quantity transferred:** _____ ☐ tons ☐ gallons

Manure analysis results (must be representative of manure transferred):

Manure source: _____ Date analyzed (mm/dd/yyyy): _____

N: _____ P_2O_5: _____ K_2O: _____ **Units:** ☐ lb/ton ☐ lb/1000 gallons

Name of company or individual taking manure from feedlot: _____

Mailing address: _____

City: _____ State: _____ Zip code: _____

Phone: _____ Fax: _____ E-mail: _____

Step 2: Short-Term Stockpiling. *Completed by owner of the stockpile -- Provide form to person applying manure. If no stockpile, go to step 3.*

Stockpile location(s)				Quantity stockpiled (tons)	Date stockpile established	**Date land applied**
County	Township	Section	Quarter			

Step 3: Manure Application. *Completed by individual applying the manure at the time of application. Return a copy to the feedlot owner where manure was generated within 60 days after applying manure. See the back of this form for manure spreading requirements when manure is from a facility with 300 or more animal units.*

Name of company or individual that applied manure: _____

Mailing address: _____

City: _____ State: _____ Zip code: _____

Phone: _____ Fax: _____ E-mail: _____

Minnesota Department of Agriculture license number of commercial applier: _____

Field ID	County	Township	Section	Application Rate (tons or gallons/ac)

Who needs a Manure Management Plan (MMP)?

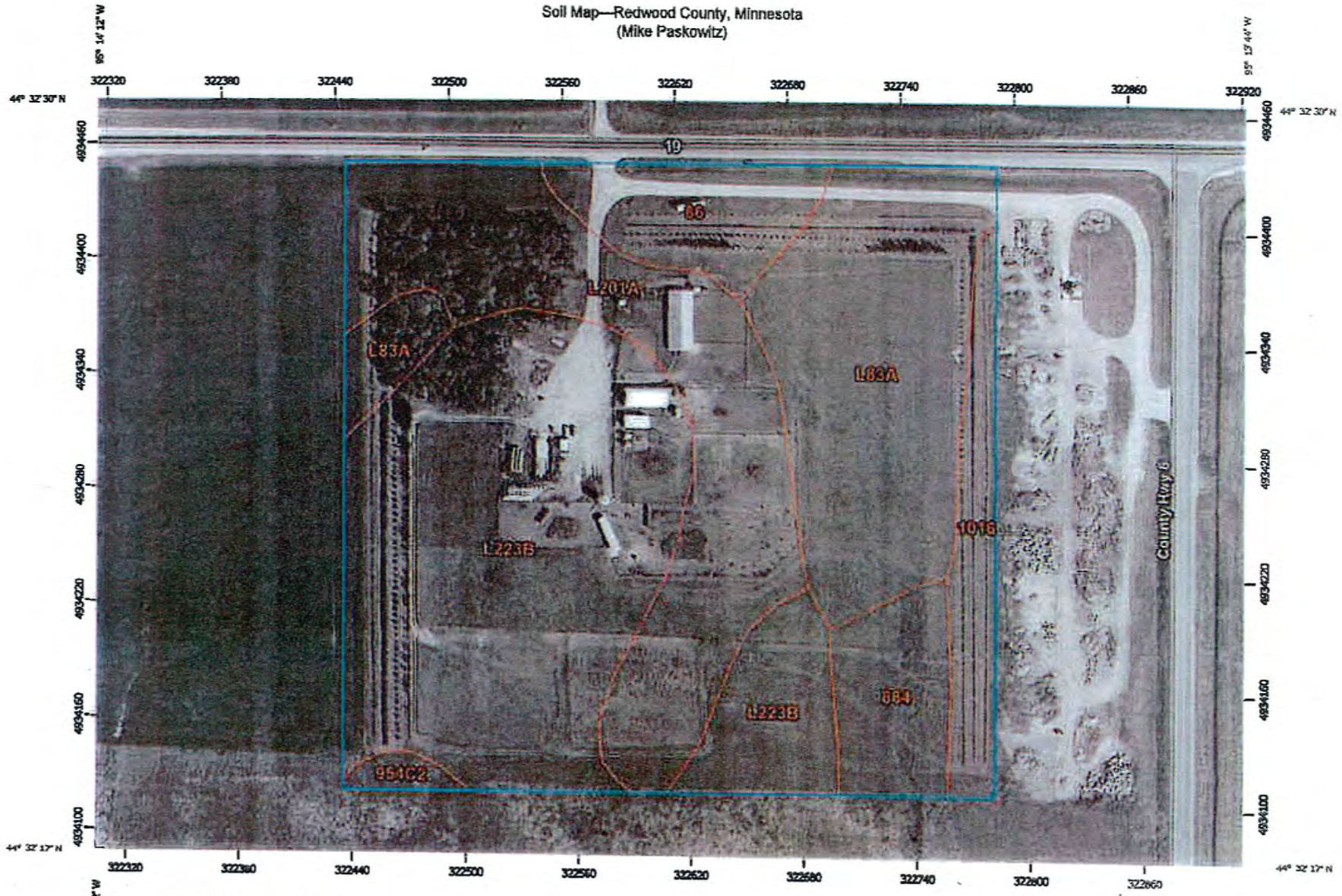
MMPs are required by the Minnesota Pollution Control Agency (MPCA) as specified in Minn. R. ch. 7020.2225 when:

- Manure from a feedlot capable of holding 300 or more animal units (AU) is applied after January 1, 2006, by someone other than a certified animal waste technician; **or**
- A permit application is submitted from an operation with 100 or more AU after October 23, 2000. Permit types include:
  - National Pollutant Discharge Elimination System (NPDES)
  - State Disposal System (SDS)
  - Interim
  - Construction Short Form (CSF)

What must be included in the MMP?

A MMP must contain the elements in Minn. R. ch. 7020.2225, subp. 4, item D. The MMP must contain additional items if the feedlot facility needs a NPDES Permit, in accordance with federal regulations and the NPDES Permit conditions. When ownership of manure is transferred, the feedlot owner must complete certain parts of the MMP. The feedlot owner is also responsible for providing the manure recipient with state requirements concerning: soil testing, rate limits, seasonal restrictions, setbacks, keeping records, and reporting spills. **A feedlot owner/operator's MMP for transferred manure can be developed by answering the questions on pages 1 and 2.** The cropland manager who receives transferred manure must conduct manure management planning and recordkeeping that is specific to the fields and crops.

Soil Map—Redwood County, Minnesota
(Mike Paskowitz)



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Redwood County, Minnesota
Survey Area Data: Version 14, Sep 18, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 6, 2011—May 12, 2012

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Redwood County, Minnesota (MN127)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
86	Canisteo clay loam, 0 to 2 percent slopes	1.7	6.1%
884	Delft-Webster complex	1.5	5.4%
954C2	Storden-Ves loams, 6 to 12 percent slopes, eroded	0.2	0.8%
1016	Udorthents, loamy	1.4	5.1%
L83A	Webster clay loam, 0 to 2 percent slopes	6.0	21.2%
L201A	Normania loam, 1 to 3 percent slopes	6.5	23.0%
L223B	Amiret-Swanlake loams, 2 to 6 percent slopes	10.8	38.3%
Totals for Area of Interest		28.2	100.0%

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Redwood County, Minnesota (MN127)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
86	Canisteo clay loam, 0 to 2 percent slopes	C/D	1.7	6.1%
884	Delft-Webster complex	B/D	1.5	5.4%
954C2	Storden-Ves loams, 6 to 12 percent slopes, eroded	B	0.2	0.8%
1016	Udorthents, loamy		1.4	5.1%
L83A	Webster clay loam, 0 to 2 percent slopes	C/D	6.0	21.2%
L201A	Normania loam, 1 to 3 percent slopes	C	6.5	23.0%
L223B	Amiret-Swanlake loams, 2 to 6 percent slopes	B	10.8	38.3%
Totals for Area of Interest			28.2	100.0%

MODEL INPUTS

Farm Name: Mike Paskowitz, LOT3 A-C
Address or other information: 2788 State Highway 19, Redwood Falls, MN 56283
Evaluation Date: 10/14/16 Phone: 507-438-0276
County: Atkin Evaluator: Alan D Larsen, PE

Compliance = YES
INDEX = 11

Clear Farm Info

Are animal numbers the same all year? YES

Average Annual Numbers

Feedlot area: 8760 sq.ft
% paved: 0 %
Scrape lot every: 30 days
Slope: 2.0 %

AUD= 224

Type of Animal	Number Animals	Average weight pounds	Average hours/day on lot
Beef Steer	60	900	20
None			
None			
None			

% snow removed lot=
% snow removed A2=

Sub-lot 2 April-May or Annual

Feedlot area: 18260 sq.ft
% paved: 0 %
Scrape lot every: 30 days
Slope: 4.0 %

AUD= 54

Type of Animal	Number Animals	Average weight pounds	Average hours/day on lot
Beef Steer	30	900	20
None			
None			
None			

Sub-lot 3 April-May or Annual

Feedlot area: 11230 sq.ft
% paved: 0 %
Scrape lot every: 30 days
Slope: 4.0 %

AUD= 231

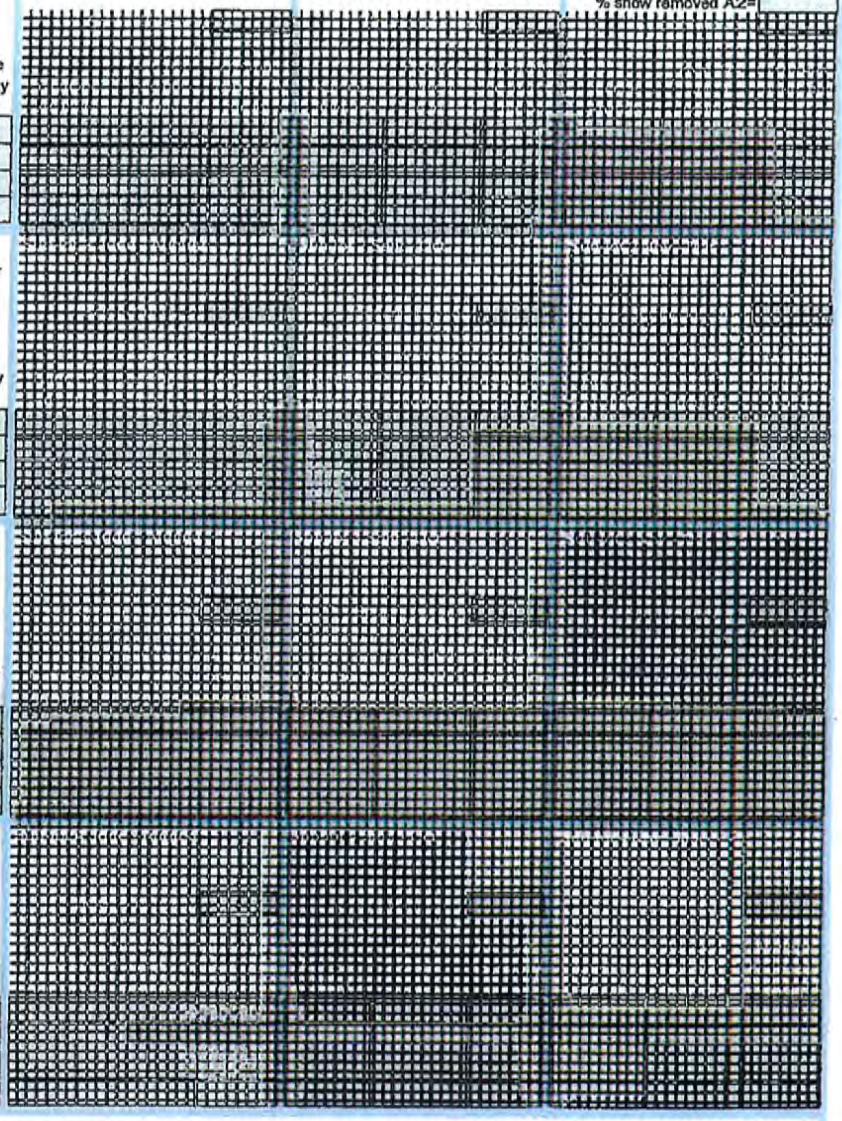
Type of Animal	Number Animals	Average weight pounds	Average hours/day on lot
Beef Steer	80	900	20
None			
None			
None			

Sub-lot 4 April-May or Annual

Feedlot area: sq.ft
% paved: %
Scrape lot every: days
Slope: %

AUD= 0

Type of Animal	Number Animals	Average weight pounds	Average hours/day on lot
Beef Steer			
None			
None			
None			



AREA 2 INFORMATION

Roof area: 3380 sq.ft

	Area	Units	Cover Type or Rotation	Your Soils	Hydro Group
Tributary A		acres	Row Crop-Contour		B
Tributary B		acres	Row Crop-Contour		B
Tributary C		acres	Row Crop-Contour		B
Tributary D		acres	Row Crop-Contour		B
Tributary E		acres	Row Crop-Contour		B
Tributary F		acres	Row Crop-Straight		B

Compliance = YES
INDEX = 11

BUFFER INFORMATION

	Length	Width		Slope		Cover Type or Rotation	Your Soils	Hydro Group
Buffer A	110	230	feet	3.0	%	Pasture/Grassland-Good		B
Buffer B			feet		%	Row Crop-Contour		B
Buffer C			feet		%	Row Crop-Contour		B
Buffer D			feet		%	Row Crop-Contour		B

AREA 3 INFORMATION (NOT INCLUDING BUFFER AREA)

	Area	Units	Cover Type or Rotation	Your Soils	Hydro Group
Adjacent A		acres	Row Crop-Contour		C
Adjacent B		acres	Row Crop-Contour		B
Adjacent C		acres	Row Crop-Contour		B
Adjacent D		acres	Row Crop-Contour		B
Adjacent E		acres	Row Crop-Contour		B
Adjacent F		acres	Row Crop-Contour		B

Estimated max Area 3: 2.02 acres

Compliance = YES

INDEX = 11

RECEIVING WATER INFORMATION

Is this feedlot in a TMDL Area? NO — **If yes, what for? (fecal, TSS, P,etc.)**

Is the feedlot in a Riparian Area? NO — If yes, what type?

What is the End of Treatment (EoT)? Property Boundary

What is the Water of Concern (WoC)? Stream/River no Lake — Name of waterbody

miles

Other Comments?

MODEL RESULTS FOR: Mike Paskowitz, LOTS A-C 10/14/15

Site Summary

Total Feedlot Area =	0.88	acres
Roof Area =	0.08	acres
Total Area 2 =	0.08	acres
Total Buffer Area =	0.58	acres
Total Area 3 =	**0.00**	acres
Ratio of Buffer to Feedlot Area (includes Area 2)=	**0.60**	

Site Evaluation Results

Does Evaluation Indicate Regulatory Compliance?	*YES*
Prioritization INDEX =	11

Receiving Water Summary

The Feedlot is NOT in a TMDL area
The Feedlot is NOT in a Riparian Area as defined by BWSR
The End of Treatment is a Property Boundary
The Water of Concern is a Stream/River no Lake
The name of the WoC is was not provided
The distance from the EoT to the WoC is 0 ft

Seasonal Runoff Summary

Average Seasonal and Annual Runoff Volume

Location (units)	Spring	Summer	Fall	Winter	Annual
Feedlot Edge (acre-in)	0.68	2.29	0.89	0.82	4.48
Buffer Edge (acre-in)	0.14	0.19	0.14	0.31	0.78

Average Annual Loading from Feedlot

Parameter (units)	Spring	Summer	Fall	Winter	Annual	*Compliance Indicator*
COD (lbs)	64	97	70	132	362	
Phosphorus (lbs)	1	2	1	3	7	3.5
Nitrogen (lbs)	4	5	4	7	20	
Fecal Coliform (cfu)	3.1E+13	4.7E+13	3.4E+13	6.5E+13	1.8E+14	
BOD 5 (lbs)	14	21	16	29	81	80.3

<=Using BOD Based limit

Comments

MODEL INPUTS

Farm Name: Mike Paskowitz, LOTS D-F
Address or other information: 2788 State Highway 19, Redwood Falls, MN 56283
Evaluation Date: 10/14/15 | Phone: 507-438-0278
County: Redwood | Evaluator: Alan D. Larsen, PE

Compliance = YES
INDEX = 11

Clear Farm Info

Are animal numbers the same all year? YES

Average Annual Numbers

Feedlot area: 14413 sq.ft
% paved: 0 %
Scrape lot every: 30 days
Slope: 4.0 %

AUD= 181

Type of Animal	Number Animals	Average weight pounds	Average hours/day on lot
Beef Steer	80	900	20
None			
None			
None			

% snow removed lot=
% snow removed A2=

Sub-lot 2 April-May or Annual

Feedlot area: 6680 sq.ft
% paved: 0 %
Scrape lot every: 30 days
Slope: 4.0 %

AUD= 300

Type of Animal	Number Animals	Average weight pounds	Average hours/day on lot
Beef Steer	100	900	12
None			
None			
None			

Sub-lot 3 April-May or Annual

Feedlot area: 5120 sq.ft
% paved: 0 %
Scrape lot every: 30 days
Slope: 3.0 %

AUD= 938

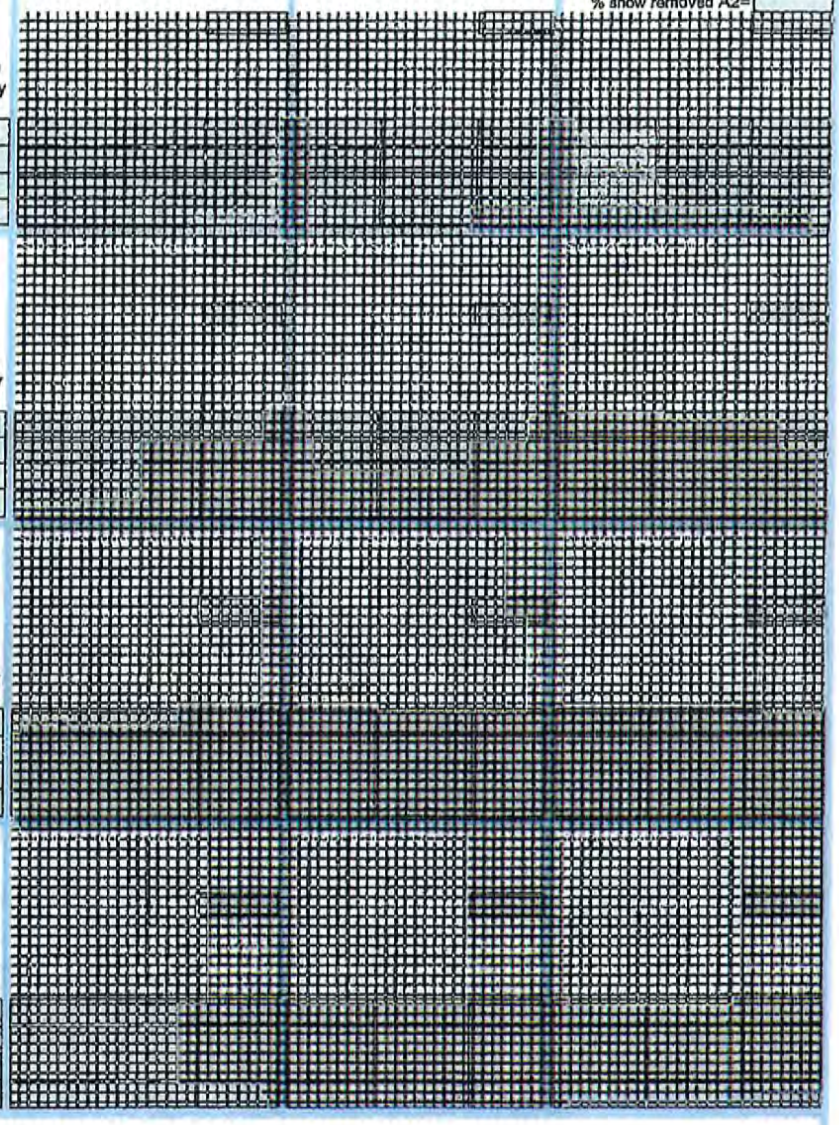
Type of Animal	Number Animals	Average weight pounds	Average hours/day on lot
Beef Steer	150	900	20
None			
None			
None			

Sub-lot 4 April-May or Annual

Feedlot area: sq.ft
% paved: %
Scrape lot every: days
Slope: %

AUD= 0

Type of Animal	Number Animals	Average weight pounds	Average hours/day on lot
Beef Steer			
None			
None			
None			



AREA 2 INFORMATION

Roof area: 4973 sq.ft

	Area	Units	Cover Type or Rotation	Your Soils	Hydro Group
Tributary A		acres	Row Crop-Contour	-	B
Tributary B		acres	Row Crop-Contour	-	B
Tributary C		acres	Row Crop-Contour	-	B
Tributary D		acres	Row Crop-Contour	-	B
Tributary E		acres	Row Crop-Contour	-	B
Tributary F		acres	Row Crop-Straight	-	B

Compliance = YES
INDEX = 11

BUFFER INFORMATION

	Length	Width		Slope		Cover Type or Rotation	Your Soils	Hydro Group
Buffer A	300	550	feet	3.0	%	Pasture/Grassland-Good	-	C
Buffer B			feet		%	Row Crop-Contour	-	B
Buffer C			feet		%	Row Crop-Contour	-	B
Buffer D			feet		%	Row Crop-Contour	-	B

AREA 3 INFORMATION (NOT INCLUDING BUFFER AREA)

	Area	Units	Cover Type or Rotation	Your Soils	Hydro Group
Adjacent A		acres	Row Crop-Contour		B
Adjacent B		acres	Row Crop-Contour		B
Adjacent C		acres	Row Crop-Contour		B
Adjacent D		acres	Row Crop-Contour		B
Adjacent E		acres	Row Crop-Contour		B
Adjacent F		acres	Row Crop-Contour		B

Estimated max Area 3: 5.51 acres

Compliance = YES

INDEX = 11

RECEIVING WATER INFORMATION

Is this feedlot in a TMDL Area? NO **If yes, what for? (fecal, TSS, P, etc.)**

Is the feedlot in a Riparian Area? NO **If yes, what type?**

What is the End of Treatment (EoT)? Property Boundary

What is the Water of Concern (WoC)? Stream/River no Lake — Name of waterbody

miles

Other Comments?

MODEL RESULTS FOR: Mike Paskowitz, LOTS D-F 10/14/15

MinnFARM Version 2.1 UMN BBE

5/10/2010

Site Summary

Total Feedlot Area = **0.60** acres

Roof Area = **0.11** acres

Total Area 2 = **0.11** acres

Total Buffer Area = **3.79** acres

Total Area 3 = **0.00** acres

Ratio of Buffer to Feedlot Area (includes Area 2)= **5.33**

Site Evaluation Results

Does Evaluation Indicate Regulatory Compliance? *YES*

Prioritization INDEX = 11

Receiving Water Summary

The Feedlot is NOT in a TMDL area

The Feedlot is NOT in a Riparian Area as defined by BWSR

The End of Treatment is a Property Boundary

The Water of Concern is a Stream/River no Lake

The name of the WoC is was not provided

The distance from the EoT to the WoC is 0 ft

Seasonal Runoff Summary

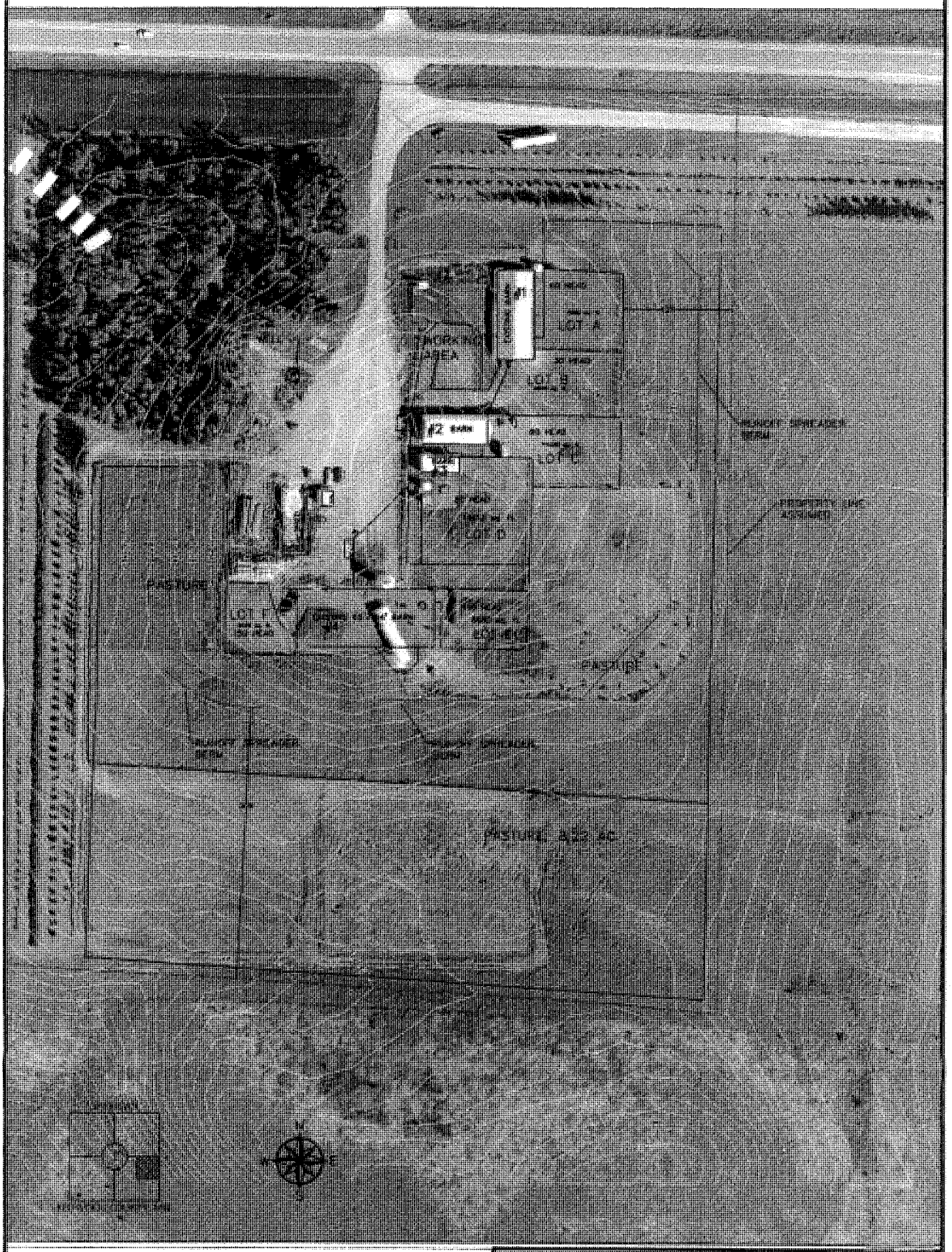
Average Seasonal and Annual Runoff Volume

Location (units)	Spring	Summer	Fall	Winter	Annual
Feedlot Edge (acre-in)	0.79	1.91	0.61	0.44	3.74
Buffer Edge (acre-in)	0.82	0.60	0.32	1.14	2.89

Average Annual Loading from Feedlot

Parameter (units)	Spring	Summer	Fall	Winter	Annual	Compliance Indicator	
COD (lbs)	116	120	56	125	417		
Phosphorus (lbs)	2	2	1	2	8	5.0	
Nitrogen (lbs)	6	7	3	7	23		
Fecal Coliform (cfu)	3.2E+13	3.1E+13	1.5E+13	3.4E+13	1.1E+14		
BOD 5 (lbs)	26	27	12	28	93	124.3	<=Using BOD Based limit

Comments



I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

To the best of my knowledge and professional judgement, this design will meet NRCS standards.

Signature: Alan D. Larsen

Alan D. Larsen, PE
Registration No. 25402

Date: May 4, 2016
My Registration Expires June 30, 2016

1730 Technology Drive
Suite 126
Willmar, MN 56201
(320) 235-1629

MIKE PASKEWITZ

SITE PLAN

SEC. 1, TWP. 113N, R. 37W
REDWOOD COUNTY, MN.

Date	
1" = 100'	05/04/2016
Project Number	Sheet Number
	1 of 1