

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

March 19, 2020

Wim Hammink
Hammink Dairy, LLC
19890 470th Avenue
Bruce, SD 57220-5208

RE: Hammink Dairy, LLC Manure Management System
Proposed Calf Barn

Dear Mr. Hammink:

The Department of Environment and Natural Resources received four copies of the plans and specifications for the proposed calf barn at your operation on January 29, 2020. Your operation is currently permitted under the 2017 *General Water Pollution Control Permit for Concentrated Animal Feeding Operations* (general permit), **permit application number SDG-100065**. The North Unit manure management system is located in the Southeast $\frac{1}{4}$ of Section 15, Township 112 North, Range 50 West and the South Unit manure management system is located in the Southwest $\frac{1}{4}$ of Section 22, Township 112 North, Range 50 West in Brookings County, South Dakota.

North Unit

Your permitted North Unit manure management system is for a housed lot feeding a maximum of 1,300-head of dairy cattle consisting of 950-head of mature dairy cattle and 350 dairy calves. Your system consists of five freestall barns, a calf hut area, a milk parlor, a manure solids separator and concrete manure solids stacking pad, a commodity barn, two bunker silos, diversion dikes or channels, two holding ponds, piping, two lift stations, and 2.3 acres of drainage area. Each barn contains a concrete flush gutter for transferring the manure and wastewater from the barns to the manure solids separator. The holding pond system is designed for at least 270 days of liquid storage capacity.

South Unit

Your permitted South Unit manure management system is for a housed lot feeding a maximum of 3,000-head of mature dairy cattle. Your system consists of a flume system in two freestall barns and a milk parlor/holding area, piping, diversion dikes or channels, a feed storage area, two concrete manure pits, a solids separator, a clay-lined solids stacking pad, three holding ponds, and 0.78 acres of drainage area. The holding pond system is designed for at least 270 days of liquid storage capacity.

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The proposed revisions at the North Unit dairy consist of the following:

- A proposed calf barn will be constructed along the east side of the existing north freestall barn. The north and south areas within the barn will be a straw bedded pack over a concrete floor. The solids will be stored on the existing solids stacking pad;
- A concrete reception pit will be constructed along the west side of the proposed calf barn. Wastewater from the scrape alleys in the middle of the barn will be collected in the reception pit and pumped to the existing north holding pond;
- An 8-inch PVC pipe will be installed between the proposed reception pit in the calf barn and the existing north holding pond with a concrete chute and splash pad constructed beneath the piping in the holding pond;
- The number of mature dairy cattle at the North Unit dairy will be decreased by 72 head and the number of calves will be increased by 250 head. The new maximum animal population at the North Unit dairy will be 878-head of mature dairy cattle and 600-head of calves; and
- With these changes, the holding pond system will still have at least 270 days of liquid storage capacity and the stacking pad will still have at least 365 days of solids storage capacity.

We have reviewed and hereby conditionally approve the revised plans and specifications for your project. This approval expires on March 19, 2022, unless construction of the proposed calf barn has been started by that date. Once construction has commenced, you will have three years to complete construction and submit a Notice of Completion. If construction is not completed within the three year timeframe this approval will expire. Two copies of the approved plans and specifications are being retained for our files and requirements you must implement are listed on the attached pages.

If there are any other modifications to your system, a complete set of as-built plans will be required if any major deviations result. If you plan to make any of the following modifications to your approved permit application prior to obtaining permit coverage for the proposed calf barn, you will need to start the permitting process over which will require a new public notice. These modifications include: a change to the location of a process wastewater containment structure where additional soil borings are needed; a change to the type of manure or process wastewater storage structure; an increase in the amount of manure or process wastewater generated; a decrease in the manure or process wastewater storage volume in the manure containment system; or a modification to the nutrient management plan that results in a change in crop rotation or an increase in the land application acres.

Upon completion of construction, the enclosed Notice of Completion must be returned to the department. **You cannot populate the proposed calf barn or use the proposed reception pit to store manure until an amended Certificate of Compliance and coverage under the 2017 state general permit are issued. Once the Notice of Completion has been received and a satisfactory construction inspection has been conducted, the department will issue an amended Certificate of Compliance and coverage under the 2017 state general permit for the calf barn.**

One copy of the submitted permit application is being retained for our files. If you plan to increase your maximum number of animals or make any modifications to your manure management system,

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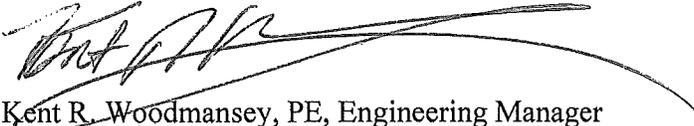
you must obtain department approval prior to increasing your animal numbers or beginning any new construction. If you plan to make any modifications to your nutrient management plan that include a change in manure application method, the addition of land application fields, or a change in crop rotation, you must obtain department approval prior to making the change.

Continued compliance is dependent upon you performing proper operation and maintenance activities. You will be liable for any noncompliance with applicable South Dakota environmental laws or regulations.

Our review covers works of sanitary significance and does not cover items such as quality of material, structural soundness, or electrical and mechanical design features. Approval of the plans and specifications does not in any way release the applicant from the responsibility that the project will be an operable facility when construction is completed.

If you have any questions regarding the content of this letter, please feel free to contact Ben Myers, Feedlot Permit Program at (605) 773-3351. Thank you for your cooperation.

Sincerely,



Kent R. Woodmansey, PE, Engineering Manager
Feedlot Permit Program
Phone: (605) 773-3351

cc: Brian Friedrichsen, PE, DEC, Huron, SD
Brookings County Commissioners
Luke Muller, F.D.A.L.G., Watertown, SD

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REQUIREMENTS

The following requirements must be implemented before we will issue an amended Certificate of Compliance and coverage under the 2017 general permit. Failure to implement these requirements will invalidate this approval.

State General Permit

You will be required to operate your feeding operation and manure management system in accordance with the requirements in the general permit.

1. Notification

Construction Schedule - You or your engineer must notify the department of the proposed construction schedule for your project to allow our personnel the opportunity for construction inspections. Please fill out the enclosed postcard and return it to us prior to beginning construction of the proposed calf barn. If any of the dates change from the ones submitted on the postcard, please notify us at (605) 773-3351 and ask for Ben Myers.

Other Government - You are responsible for contacting your local planning and zoning office to determine if there are any local ordinances or requirements with which you need to comply. If a stream, lake, or wetland will be dredged or filled during the construction of the feeding operation, then you need to contact the United States Corps of Engineers at (605) 224-8531 prior to construction of the manure management system.

Notice of Completion - The Notice of Completion form must be completed by your engineer and returned to the department when construction of the calf barn is complete. The department cannot issue you a Certificate of Compliance and coverage under the 2017 state general permit until we receive a Notice of Completion. **You cannot populate the proposed calf barn or use the proposed reception pit to store manure until an amended Certificate of Compliance and coverage under the 2017 state general permit are issued. Once the Notice of Completion has been received and a satisfactory construction inspection has been conducted, the department will issue an amended Certificate of Compliance and coverage under the 2017 state general permit.**

2. Initial Nutrient Management Plan (NMP)

An updated NMP CPA-63 spreadsheet was submitted that includes the additional animals. No new fields were added and there are adequate acres available for manure application for the additional animals.

REQUIREMENTS CONTINUED

3. Setback Distance and Water Wells

The manure management system and the application sites must be located at least 100 feet from a private well owned by you if the top of the aquifer is 100 feet or more below the land surface, 150 feet from a private well owned by you if the top of the aquifer is less than 100 feet below the land surface, 250 feet from a private well not owned by you and 1,000 feet from any public supply well. These areas can not be included in the land application areas. You must provide information indicating whether any public water wells or water sources exist within 1,000 feet of the manure application sites.

4. Other Permits That will of May Be Required

Storm Water Permit - If construction will disturb more than one acre in total land area, **you must obtain a general storm water construction permit.** This permit must be obtained before you can start constructing your proposed manure management system. Information concerning this permit can be obtained by calling the Surface Water Quality Program at 1-800-737-8676. **A copy of this plan must be kept on-site during construction for review by DENR inspectors.**

Emergency Power Generator - The department has observed that emergency power generators have been installed at similar sized operations. If an emergency power generator will be installed at your operation it may require that you obtain an air quality permit. Please contact Earl Berg with the department's Air Quality Program at (605) 773-3151, to determine whether an air quality permit is required. If an air quality permit is required, you must have that permit prior to using the generator.

Permit to Occupy Right of Way - If manure application will involve placing hoses or other equipment in a state highway right of way (for example, in a road ditch or through a culvert), you must first obtain a Permit to Occupy Right of Way. Application for this permit may be made through the local South Dakota Department of Transportation area office. Contact your local SD DOT area office for more information on this permit. In addition, please contact your county highway superintendent to determine if your county has similar requirements.