



DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

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

denr.sd.gov

October 3, 2018

Rein Landman  
Linde Dairy, LLC  
47988 207<sup>th</sup> Street  
White, SD 57276-6034

Re: Linde Dairy, LLC Manure Management System  
As-Built Plans and Specifications Review – New Freestall Barn at East Facility

Dear Mr. Landman:

Linde Dairy, LLC currently has coverage under the 2003 *General Water Pollution Control Permit for Concentrated Animal Feeding Operations* (2003 general permit), permit number SDG-0100054, for its existing dairy feeding operation. On July 19, 2018, the Department of Environment and Natural Resources (DENR) conditionally approved Linde Dairy's application for state permit coverage under the 2017 *General Water Pollution Control Permit for Concentrated Animal Feeding Operations* (2017 general permit), **permit application number SDG-100054**. You will continue to have permit coverage under the 2003 general permit until permit coverage is issued to you under the 2017 state general permit. Your manure management system is located in the South 1/2 of the Southeast 1/4 of Section 29, Township 111 North, Range 48 West in Brookings County, South Dakota.

The application conditionally approved on July 19, 2018, included plans and specifications for a proposed freestall barn, for 180 dairy cattle, to be located at the East facility. On July 24, 2018, DENR conditionally approved revised plans and specifications which included two alternative construction methods for the exterior walls of the proposed freestall barn.

DENR has received a Notice of Completion for the new freestall barn at the East facility, as-built plans and specifications for the new freestall barn, the results of permeability tests showing the clay liner installed beneath the new barn meets general permit requirements, and additional required documentation. The exterior walls of the freestall barn were constructed using one of the alternative construction methods shown in the revised plans approved on July 24, 2018. The method used consisted of a thicker reinforced concrete wall with the roof support wood posts within the wall covered by concrete on the interior side of the wall and the wood posts below the ground encased in concrete. The as-built changes to the plans and specifications conditionally approved on July 24, 2018, consisted of:

- Increased the thickness of the exterior concrete walls from 10 inches to 12 inches. Along with the increase in the wall thickness, a second layer of steel reinforcement (rebar and wire mesh) was added inside the walls;

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- Installed 7-inch by 8 and 3/8-inch wood posts instead of 8-inch by 8-inch wood posts to support the roof structure; and
- The height of the exterior concrete wall bordering the feed alley on the north side of the freestall barn decreased from 48 inches to 38 inches.

The additional documentation submitted to address conditions in the July 19, 2018, approval included a signed revised Notice of Intent form and a signed revised Operation and Maintenance Manual.

We have reviewed and hereby approve the as-built plans and specifications for the new freestall barn at the East facility and accept the permeability test results and the additional submitted documentation for your project. One copy of the as-built plans is being kept for our files. Please replace the appropriate pages in your plans and specifications booklet with the revised pages enclosed with this letter and add any additional pages enclosed with this letter into your plans and specifications booklet.

**The requirements included in DENR's conditional approval letter dated July 19, 2018, which have not been addressed, are incorporated into this letter.**

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 Keith Miller, Feedlot Permit Program, at (605) 882-5051. Thank you for your cooperation.

Sincerely,



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

Enclosures

Cc: Brian Friedrichsen, PE, Dakota Environmental, Inc., P.O. Box 636, Huron, SD 57350  
✓ Brookings County Commissioners  
Luke Muller, FDALG, Watertown, SD