



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

July 10, 2019

Ernst Temperli
Crosswind Jerseys, LLC
21672 482nd Avenue
Elkton, SD 57026-7223

RE: Crosswind Jerseys, LLC Manure Management System
As-Built Plans Review

Dear Mr. Temperli:

The Department of Environment and Natural Resources received three copies of the as-built plans for the east half of the new freestall barn (barn 4) and the permeability test results for the completed clay liner beneath this portion of the barn on July 9, 2019. The manure management system is located in the Southeast $\frac{1}{4}$ of Section 15, Township 109 North, Range 48 West in Brookings County, South Dakota.

Your permitted manure management system is for a housed lot feeding a maximum of 1,650-head of dairy cattle consisting of 1,600-head of mature dairy cattle and 50 calves. Your system consists of a scraper/flume system in each of the three barns, piping, a milk parlor, a calf hut area, diversion dikes or channels, a concrete sand settling lane, a concrete sand stacking pad, two settling ponds, two holding ponds, a feed storage area, a clay-lined sand stacking pad, and 2.72 acres of drainage area. The settling ponds and the holding ponds have at least 365 days of liquid storage capacity.

The department has also approved plans which include constructing a new freestall barn along the south side of the dairy (barn 4) and increasing the maximum animal numbers to 2,300-head of mature dairy cattle and 50 calves. These approved components have not been permitted. These plans were approved prior to the reissuance of the general permit in 2017.

Plans and specifications for the fourth freestall barn were approved on March 19, 2015. The as-built changes consist of the following:

- Updated site layout plan sheets were submitted showing the completed portion of the new freestall barn. The completed portion of the barn will house an additional 400-head of mature dairy cattle;
- The ends of the scrape alleys slope away from the exterior of the barn a total of 6-inches compared to the rest of the barn floor instead of 5-inches; and

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- A cross section of the completed portion of the barn was submitted which shows minor changes to the width of the stalls, scraper alleys, and feed alleys.

The submitted as-builts are not one of the types of changes requiring 2003 permit holders to submit an application for coverage under the 2017 permit. We have reviewed and hereby conditionally approve the changes shown on the as-built plans and accept the permeability test results as meeting the requirements of the general permit. Two copies of the as-built plans are 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. Please see the following requirements.

You are responsible for contacting the local planning and zoning office in the county where manure application will take place to determine if there are any local ordinances or requirements with which you need to comply. It is up to local government to enforce their local ordinances.

Calf Hut Location

The submitted as-built plan sheets do not indicate the location of the existing calf hut area. The calf huts were originally approved to be located along the south side of the middle freestall barn (the freestall barn directly east of the milk parlor). Please have your engineer submit as-built plans that indicate the location of the calf hut area for review and approval.

Reissued General Permit

The 2017 *General Water Pollution Control Permit for Concentrated Animal Feeding Operations* (general permit) has been reissued. Your operation was required to submit an application for coverage under the 2017 general permit by April 15, 2019; however the department has not yet received the application. Please note that certain modifications to plans previously approved by DENR or new plans will require operations to submit a permit application for coverage under the reissued 2017 permit. Information on the reissued general permit can be found at <http://denr.sd.gov/ccdocs.aspx?CCID=CCID25> and <http://denr.sd.gov/des/fp/fphome.aspx>.

Upon completion of construction of the west half of the new barn, the enclosed Notice of Completion must be returned to the department. **You cannot populate the west half of the proposed freestall barn (barn 4) or increase your animal numbers until the department issues a revised Certificate of Compliance and permit coverage.** 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.

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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,

A handwritten signature in black ink, appearing to read 'Kent R. Woodmansey', written over a horizontal line.

Kent R. Woodmansey, PE, Engineering Manager
Feedlot Permit Program

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