



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
JACKSON DISTRICT OFFICE



KEITH CREAGH
DIRECTOR

June 29, 2016

Ms. JoLynne Bleecker
Terrehaven Farm
3007 Wolf Creek Highway
Adrian, Michigan 49221

Dear Ms. Bleecker:

SUBJECT: CAFO Inspection Compliance Communication
NPDES COC No. MIG010061
Designated Name: Terrehaven Farm - CAFO

On April 27, 2016 staff of the Department of Environmental Quality (DEQ), Water Resources Division (WRD), conducted an evaluation of Terrehaven Farm - CAFO, located at 3007 Wolf Creek Highway, Adrian, Lenawee County, to evaluate the facility's compliance with Part 31, Water Resources Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended and your National Pollutant Discharge Elimination System (NPDES) Certificate of Coverage (COC) No. MIG010061, issued April 19, 2012, effective April 19, 2012.

You and Mr. Jim Bleecker participated in the inspection which included a review of the facility's waste storage structures, reporting requirements, management of non-production area storm water and diversion of clean water.

This facility is a concentrated animal feeding operation (CAFO), custom raising approximately 3,600 heifers. This facility houses animals in two primary locations on a single farmstead and includes both solid manure stacking structures and liquid manure waste storage structures. In addition to management of production area waste at the farmstead, this facility also land-applies manure to agricultural fields managed by the farm.

The following items were identified and/or discussed during the inspection:

1. At the time of the inspection, solid manure had over-topped portions of the northern edge of the solid manure stacking area. On May 9, 2016 you provided (via e-mail) photographs demonstrating that on April 28, 2016 the manure had been pushed back into the stacking area. As discussed during the April 27, 2016 inspection, additional changes will need to be made to this area to avoid the over-topping of the wall. These changes may include management changes, such as maintaining a significantly larger spacing between the edge of manure stack and the structure wall, or physical changes, such as the addition of another row of concrete blocks. Please provide a description of how the farm intends to address this issue and a timeline for the completion of the work.
2. The concrete pad located to the east of Pen 13 is badly damaged and needs to be repaired. Repair/replacement of the pad should be done in such a way as to collect all production area waste from Pen 13 (and send it to the concrete catchment area to the east) while excluding clean roof water. Please provide a description of how the farm intends to address this issue and a timeline for the completion of the work.

3. At the time of the inspection, the transfer line between the cement catchment area on the east side of the farmstead and the manure pit had not been installed. Please provide a description of how the farm intends to address this issue and a timeline for the completion of the work.
4. The straw bales which had been placed in the wet area located to the west of the main solid manure stacking area need to be removed from that location.
5. At the time of the inspection, solid manure was beginning to over-top the northern and eastern walls of the short-term solid stack location on north side of north barns and runoff from the stacking area was contacting a puddle of clean storm water which had accumulated nearby on the concrete pad. As discussed at that time, a second row of concrete blocks need to be added to this storage and a couple perpendicular blocks should be added on the west edge (similar to how the other short-term storage is designed).
6. The vegetated areas between the northern barns need maintenance. As weather conditions allow, those areas need to be scraped (as needed to remove organic debris), graded to allow appropriate flow of water to the west and re-seeded with appropriate vegetation. Broken boards near the bottom of the pens need to be repaired and any bed-pack material needs to be removed and properly stored or field applied.
7. The drainage area on the west side of the manure stacking area needs additional maintenance; as weather conditions allow, organic debris should be removed and the area reseeded with appropriate vegetation.
8. Depth gauges and fencing needed to be added to both lagoons.
9. Most feed lanes were in good condition and most barns had sufficient roof overhangs to reduce the mixing of lost feed and barn roof water. Hoop buildings (including Pen 14, Pens 22 and 23 and Pens 24 and 25 and Pen 13) need additional changes to reduce contact between feed and water. Better management along the south side of pen 16 and between Pens 18-21 and Pen 17 will help to reduce lost feeding coming in contact with roof-water.
10. The farm's 2015 annual report submittal was discussed during the inspection. Items needing to be revised and re-submitted were reviewed. An email detailing all the items requiring revision within the annual report and instructions to assist in the re-submittal of those documents will be sent to you.

Thank you for your cooperation in these matters. Please respond to items 1, 2, 3 (with a written response) and item 4 (with photographs showing completion of the requested work) by **August 1, 2016**. Please respond to items 5, 6, 7, and 8 (with photographs showing completion of the requested work) by **October 31, 2016**.

Additionally, in order to meet permit re-application requirements, the farm still needs to submit requested CNMP updates to the DEQ. In an e-mail dated March 17, 2016, you stated that the farm's CNMP consultant was in the process of completing those updates. Please provide a copy of the updated CNMP to the DEQ (via the MiWaters database) by no later than **September 5, 2016**.

Ms. JoLynne Bleecker
Terrehaven Farm

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June 29, 2016

Should you require further information, please contact me at 517-416-4073;
KoledaR@michigan.gov; or DEQ, WRD, Jackson District Office, 301 East Louis Glick Highway,
Jackson, Michigan 49201-1535.

Sincerely,

A handwritten signature in black ink that reads "Rachel Koleda". The signature is written in a cursive style with a large initial "R".

Rachel Koleda
Environmental Quality Analyst
Water Resources Division