



Governor John R. Kasich
Lieutenant Governor Mary Taylor
Director David T. Daniels

Division of Livestock Environmental Permitting
A.B. Graham Building
8995 East Main Street, Reynoldsburg, OH 43068
Phone: 614-387-0470 • Fax: 614-728-6335
www.agri.ohio.gov • lepp@agri.ohio.gov

Zylstra Dairy, Ltd. **Draft Permit to Install and Permit to Operate**

General overview of the farm

Zylstra Dairy is an existing dairy farm located at 11753 Road 21, Antwerp, Ohio which is in Harrison Township, Paulding County, situated in the Upper Maumee Watershed. The farm is owned and operated by Zylstra Dairy, Ltd. of which Willem and Yme Zylstra are members. The dairy has a current design capacity for 1,400 mature dairy cows, and storage for 19.4 million gallons of liquid manure and 42,800 ft³ of solid manure.

Overview of Draft Permit to Install

The draft Permit to Install (PTI) proposes to allow Zylstra Dairy to increase the facility's design capacity by 600 mature cows by adding one, 600 cow, freestall barn. The facility is also expanding its existing manure storage ponds to 23 million gallons, solid manure storage to 66,200 ft³ and installing sand lanes to remove and reuse the sand bedding reducing the manure stored in the ponds. The facility proposes to have 347 days of liquid storage and 308 days of solids storage.

Overview of Draft Permit to Operate

Within the draft Permit to Operate (PTO), a complete manure management plan is provided, which outlines inspections and monitoring that must be completed by the facility. The estimated annual manure production for the facility is about 24.3 million gallons of liquid manure and approximately 9,086 tons of solid manure. Zylstra Dairy has approximately 80 acres of crop land under their control and an additional 1,937 acres from area farmers where the manure is applied as a replacement for commercial, synthetic fertilizer.

An Insect and Rodent Control Plan is included to minimize the presence and negative effects of insects and rodents. The facility performs daily inspections throughout the facility for flies and rodents. These inspection results are used to determine if the facility is required to perform treatment for insect or rodents based on the criteria set forth in the permit.

A Mortality Management Plan is required for disposal of dead livestock. Approved methods of disposal are burying, landfilling, burning, rendering and composting. Zylstra Dairy will utilize rendering as their method of mortality disposal.

An Emergency Response Plan is required to ensure accidents or emergencies are handled quickly and efficiently to maintain the safety of the environment, wildlife and water supplies. In case of an emergency or accident, the names and phone numbers of contact personnel and equipment are listed.



Finally, an Operating Record is included that provides all forms and information that must be maintained by the facility to show compliance with ODA's rules and the permit. These records include inspection of the manure storage structures, manure characterization, land application, insect and rodent control, distribution and utilization of manure, and mortality management. The facility and these records are inspected by the Ohio Department of Agriculture to ensure compliance.



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