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## Twin Oak Dairy Draft Permit to Install and Permit to Operate

### *General overview of the farm*

Twin Oak Dairy is an existing dairy farm located at 14380 Charleston Chillicothe Road, South-Solon, OH 43153, which is in Range Township, Madison County, situated in the Paint watershed. The farm is operated and owned by Twin Oak Dairy, LLC. The facility currently has a permitted design capacity of 1,750 mature dairy cows, with two earthen ponds and a concrete pit providing at total of 17.28 million gallons of liquid manure storage and 2.21 million gallons of storage for captured storm water.

### *Overview of Draft Permit to Install*

The draft Permit to Install (PTI) proposes to expand a freestall barn which would increase the facility's design capacity to 2,050 mature dairy cows. In addition, the PTI proposes to expand the footprint of the existing manure storage Pond #1 to provide an additional 2.15 million gallons of storage. The maximum operating levels in the existing manure storage Pond #2 and the existing Storm Water Pond would slightly change due to revisions in storm water calculations. All combined, the proposed expansion would result in a total manure storage capacity of 19.54 million gallons of manure storage and 2.11 million gallons of storage for collected storm water. The total combined storage capacity would allow for about 293 days' worth of liquid manure storage and 184 days' worth of collected storm water storage after the proposed expansion.

### *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. After the proposed expansion, the estimated annual liquid waste production for the facility would be 24.35 million gallons of liquid manure, and 4.18 million gallons of collected storm water. Twin Oak Dairy will recycle the organic manure nutrients on 1,979 acres of nearby crop land, thereby replacing the need for synthetic chemical fertilizers that would normally be required to meet crop nutrient demands on those acres.

An Insect and Rodent Control Plan is included in the draft PTO to minimize the presence and negative effects of insects and rodents. The facility performs daily, weekly, and seasonal inspections throughout the facility for flies and rodents. The 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. Twin Oak Dairy will utilize an incinerator as the planned 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. ---End---

