

GOLDEN SANDS DAIRY, LLC

**GOLDEN SANDS DAIRY, LLC**  
APPLICATION PLAN FOR SPREAD RESTRICTED AREAS

All liquid manure will be applied to non-frozen, non-snow covered fields. All applications will be injected or incorporated within 3 days, top dress alfalfa applications will be limited to a maximum 7,000 gallons per acre per application.

Solid manure may be applied to snow covered/frozen ground, except for the February and March restricted period.

**SWQMA AREAS**

Including: ponds, perennial streams, intermittent streams, water ways that discharge to a navigable water.

Management: 25 foot prohibition area with no manure applied and inject or immediately incorporate manure within the SWQMA area.

**PRIVATE WELLS**

Management: 100 foot prohibition area with no manure applied.

## Field and Spreading Map Verification Plan

To demonstrate compliance with the NR 243.14 general land application requirements above, Golden Sands Dairy LLC will complete, on an ongoing basis, map and field verification procedures (listed below) to ensure spreading maps are accurate (including soil types, slopes and slope lengths), SWQMA or well setback distances are followed and prohibited conditions/features on fields are identified and avoided when spreading manure or process wastewater to NMP fields. The procedures demonstrate how land application activities will be in compliance with NR 243.14 or NRCS 590 restrictions throughout the permit term.

The prohibited conditions/features that Golden Sands Dairy LLC will evaluate for on each field include: ephemeral erosion or concentrated flow channels, saturated soils, intermittent and perennial streams, grassed waterways, wetlands, lakes, drinking wells, areas of field with bedrock or groundwater within 24 inches of field surface, wells and other direct conduits to groundwater - NR 243.14(2)(b)(3),(5),(6), (7-12). These areas have been inventoried and marked on restriction maps (see Section 4).

Golden Sands Dairy LLC will maintain written and/or visual records of ongoing field and map verification actions to demonstrate compliance with NR 243.14 requirements. Please refer to Appendix D and Section 5 of plan for this information.

### ACTION PLAN SPECIFICS

#### Field and Map Verification Procedures

**Prior to spreading manure onto fields, Golden Sands Dairy LLC staff will complete the following map and field verification procedures to ensure all manure spreading will be in compliance with NR 243 and 590 criteria:**

- **Spreading maps will be reviewed by Golden Sands Dairy LLC staff to identify all restricted or prohibited features and setback distances on field**
- **Fields will be inspected for restricted or prohibited features; any new conditions/features will be identified.**
- **Once identified, prohibited field features will be avoided and setback distances (as depicted on spreading maps or in NR 243 or NRCS 590) will be measured and followed during manure spreading.**
- **Spreading maps will be updated with any new prohibited/restricted field features or conditions.**
- **A log will be kept with the NMP to track the map and field verification procedures listed above. The log will track:**
  - (a) date(s) review took place
  - (b) person(s) involved.
  - (c) fields verified
  - (d) any new field features or conditions identified on fields
  - (e) photos or other documentation of field features or conditions reviewed

## Section 5

### **Avoiding manure or process wastewater field runoff or ponding– NR 243.14(2)(b)(1), (2)&(6).**

Please refer to field and map verification procedures and NRCS 590 requirements for runoff and ponding.

### **Surface applications & precipitation forecast for runoff within 24 hours – NR 243.14(2)(b)(13)**

For this NMP, *surface* applications of manure will not be completed when rain events above 2 inches are forecasted within 24 hours of the time of planned applications. Surface application means manure that is applied and left on the surface of the field. Surface application does not mean manure that is surface applied and then incorporated into the soil.

Prior to manure applications to fields, [www.weather.com/weather/local/](http://www.weather.com/weather/local/) will be used to track weather forecast data. This information will be used determine the risk for forecasted precipitation to cause run-off from fields. Weather forecast data will be printed or saved to disc and kept with the NMP. All weather forecast data will be submitted with annual reports as an attachment.

# GOLDEN SANDS DAIRY, LLC

## **GOLDEN SANDS DAIRY, LLC Manure Management Plan Winter Spreading Plan**

Golden Sands Dairy, LLC., is submitting this winter spreading plan to address the requirements of NR-243.14 as they pertain to the winter spreading of manure generated at the dairy facility.

Manure types that would qualify for normal winter field application would be solid manure and frozen liquid manure that will not flow through the manure system.

All surface applied manure to frozen or snow covered ground will comply with spreading restrictions and application setbacks in NR-243 and Table 4 (solid manure) and Table 5 (frozen liquid manure). Solid manure will not be applied during February and March on frozen snow covered ground, except for the five day monthly allowance for emergency situations.

The following restrictions will be followed when applying solid manure:

- Fields will be fall chisel plowed with cover crop planted
- Fields with 0-6% slope will be targeted
- Manure application rates will be limited to 60 lbs. P2O5 - not to exceed the fertilized crop nutrient need.
- No applications within a SWQMA
- Setbacks include
  - 200 feet for channelized flow, buffers, and wetlands
  - 300 feet for direct conduits to ground water

The following restrictions will be followed if applying frozen liquid manure:

- Fields will be fall chisel plowed with cover crop planted
- Fields with 2% slope or less will be targeted
- Manure applications will be limited to 7,000 gallons per acre, not to exceed 60 lbs. P2O5, or the fertilized crop needs.
- No applications within a SWQMA
- Setbacks include
  - 200 feet for channelized flow, buffers, and wetlands
  - 300 feet for direct conduits to ground water
- Applications in February and March, in excess of five days per month, will be approved by department personnel.
- Department of Natural Resource Contact Personnel
  - Terry Kafka
  - 5301 Rib Mountain Drive
  - Wausau, WI 54401
  - 715-355-1363
  - Terence.kafka@wisconsin.gov

## GOLDEN SANDS DAIRY, LLC

Field Phosphorus Index values for the farm fields included in the Manure Management Plan are exceptional low. 100 % of the fields are expected to have a P I of less than 2 for the 2013 – 2017 cropping rotation. The Acute Winter Loss Index value for any field receiving manure is expected to be well below the value limit of 4. Snap Plus calculations will be made for all fields receiving winter applications to insure that the Acute Winter Loss Index is less than 4.

### **LIST OF FIELDS SUITABLE FOR WINTER APPLICATIONS**

#### **FIELD # SOIL TYPE ACRES CROP**

Fields will be inspected once they are put into production and prior to any manure applications.

Restriction maps included in the Manure Management Plan adequately show the restriction and hazard areas of the crop fields. All restricted SWQMA's are identified.

Weather conditions and possible storm events within the field application time frame will be monitored by local weather updates and online weather services.

### **Emergency Surface Applications of Liquid Manure**

In the event that Golden Sands Dairy has an emergency situation that requires the application of liquid manure on frozen and snow covered ground all application restrictions and setbacks in NR-243.15 and table 5 will be followed.

- Fields will be fall chisel plowed with cover crop planted
- Fields with 2% slope or less will be targeted
- Manure applications will be limited to 7,000 gallons per acre on fields with 0-2 % slope and 3,500 gallons per acre on fields with 2-6 % slope, not to exceed 60 lbs. P2O5, or the fertilized crop needs.
- No applications within a SWQMA
- Setbacks include
  - 200 feet for channelized flow, buffers, and wetlands
  - 300 feet for direct conduits to ground water

Appropriate reporting and notification requirements will be followed to insure that Department personnel are notified and aware of the situation.

- Department of Natural Resource Contact Personnel
  - Terry Kafka
  - 5301 Rib Mountain Drive
  - Wausau, WI 54401
  - 715-355-1363
  - Terence.kafka@wisconsin.gov

GOLDEN SANDS DAIRY, LLC

Fields will be assessed using Snap Plus calculations to insure that the nutrient limits are not exceeded and the Acute Winter Loss Index will not exceed the value of 4.

**LIST OF FIELDS SUITABLE FOR EMERGENCY LIQUID APPLICATIONS**

**FIELD #      SOIL TYPE    ACRES      CROP**

Fields will be inspected once they are put into production and prior to any manure applications.

Weather situations will be monitored to avoid weather conditions that would lead to potential runoff situations.

Fields will be monitored during and after application for runoff conditions.

# Manure Spill Emergency Response Plan

## What to do in Case of a Manure Spill

### 1. Eliminate the source.

- Stop manure application or pumps.
- Close valves.
- Separate pipes, creating an air gap and stopping flow.
- Transfer manure/liquid to another basin or lagoon.

### 2. Contain the spill, if possible.

- Create a containment dam in the field, ditch or stream.
- In a field, use tillage equipment to slow the flow
- Check for tile flows.
- Construct a temporary holding basin down slope.
- Ensure that you do not damage the embankment while creating a temporary basis.
- If possible, place soil over the point of seepage, ensuring that you do not drive over or compact the seepage point.

### 3. Assess the extent of the spill and note any obvious damages.

- Did the spill reach any surface waters, well casings or other sensitive areas?
- How much was released?
- What time?
- Did any damage occur (employee injury, fish kills, or property damage)?
- Can the spill reach streams?

### 4. Contact the appropriate agencies.

### 5. Clean up the spill and make repairs.

### 6. Prepare and submit summary.

## Farm Information

<b>Farm Name:</b>	GOLDEN SANDS DAIRY, LLC		
<b>Address:</b>			
<b>City:</b>	<b>State:</b>	<b>Zip:</b>	
<b>Farm Owner:</b>			
<b>Phone:</b>		<b>Mobile Phone:</b>	
<b>Directions to the farm (from crossroad or highway)</b>			
Wood County Wisconsin - Southeast of Port Edwards on USH 13. Section 20 T21N-R6E - West of USH 13.			

## Emergency Phone Numbers

<b>County Sheriff Dispatch:</b>	<b>Dial 911</b>
<b>DNR 24-hour Spill Reporting Hotline</b>	<b>1-800-943-0003</b>

## County Land & Water Conservation Dept.

<b>County Conservationist</b>	JERRY STORKE
<b>Phone Number</b>	715-421-8475

## Department of Natural Resources

<b>Animal Waste Specialist</b>	TERRY KAFKA
<b>Phone Number</b>	715-355-1363
<b>Conservation Warden</b>	
<b>Phone Number</b>	

Refer to listing on back for: Earth Moving, Pumping Equipment, & Manure Hauling Contractors

## Equipment Owners (other neighboring farms)

<b>Name</b>	<b>Phone Number</b>

# Manure Spill Emergency Response Plan

## Earthmoving Contactors

Company Name	Address	Phone
To be determined		

## Pumping Equipment

Company Name	Address	Phone
Sundstum's Pit Pumping	Colfax, WI	715-962-4061

## Custom Manure Applicators

Company Name	Address	Phone
Sundstrum's Pit Pumping	COLFAX, WI	715-962-4061

*This is a partial listing for informational purposes only. No endorsement is implied or intended.*

**Carcass Disposal Plan  
Golden Sands Dairy LLC**

**Carcass disposal is accomplished with on farm pick-up of dead animals by a regional carcass removal company, Chippewa By Products, Alma Center, WI., 877-238-6264.**

**No animals are buried or composted on site.**