

# Gruber Livestock South, LLC

## Odor Management Plan

### Contact Information

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### Goals for Odor Management & Potential Complaints

1. Implement best management practices to control odor and practice air and land stewardship.
2. Communicate with neighbors on a regular basis to maintain positive relationships.
3. Work continually to research and implement new processes and strategies to mitigate odors.

The Employee Training Plan outlines topics that employees will be trained on regarding odor management. Trainings will be held on an annual basis for all employees, and upon employment of new hires. Training topics include:

- Purpose of odor management and Worksheet 2 of the livestock siting application
- Primary odor generators
- Maintaining odor control practices in accordance with locally approved permit
- Other best management practices to control odor
- Responding to odor complaints
- Our farm's odor management plan

### Odor Management Strategies

#### Odor Sources and Methods for Implementing Control Practices

- Manure Storage Pit (underground)
  - Biological additives- add biological additives to help neutralize odors and control foam
  - Manure application- directly incorporate manure into soil to help reduce Nitrogen loss and mitigate odors
- Animal Housing Area- Exhaust Fans, Animals, Tunnel Curtain
  - Diet manipulation- formulate low-protein amino acid supplemented diet and minimize feed waste by using wet/dry feeders.
  - Windbreak- plant 3 rows of varying species of trees and shrubs around the perimeter of the building to help divert the air that is coming off the exhaust fans or out of the curtain opening
- Feed Storage Bins
  - Keep feed storage areas free from excess feed or debris

- Animal Carcasses
  - Remove animal carcasses promptly
  - Maintain compost pile by covering with plenty of organic matter and regularly rotating piles

#### Strategies to Reduce Community Conflict

- Give notice to neighbors before agitating waste storage or land spreading manure
- Immediately incorporate manure after land spreading and/or avoiding land spreading during certain dates, such as holidays or local celebrations
- Immediately remove any mud or debris on roads from facility equipment

#### Practices to Reduce Dust

- Construction and maintenance of gravel driveways with minimal fine particles
- Install windbreak around the perimeter of barn to divert and disperse dusty air

#### Handling Feed Storage Leachate to Reduce Odor

- Storing feed in enclosed bins to reduce moisture and spoilage
- Remove waste feed and apply it to our compost pile in the event of a feed spill

#### Practices Used to Conserve Water

- Install water pressure regulators and gauges to limit excess water from entering plumbing or drinking lines
- Use water meters to monitor the amount of water being used daily
- Utilize high efficiency appliances in office areas to reduce the amount of water usage
- Utilize wet/dry feeders to minimize excess water from water nipples from entering the pit

#### Mortality Odor Management Strategy

- Remove animal carcasses promptly
- Maintain compost pile by covering with plenty of organic matter and regularly rotating piles
- Our Environmental Response Plan describes methods that will be used to manage animal mortalities on page 7

### Odor Complaint Protocol

1. After a complaint is placed, fill out the odor monitoring worksheet in full detail.
2. Review the facility's approved odor control practices to ensure they are being maintained.
3. Consider additional steps to maintain working relationships with affected neighbors.
  - a. Provide notice to neighbors prior to land application of manure.
  - b. Avoid spreading manure during holidays and community events.
  - c. Clean roads if operations have deposited manure or mud.
  - d. Engage in community outreach such as attending 4-H, school events, or hosting a community event and open house.
4. Keep a record of complaints received and evaluate the effectiveness of odor control technologies and management.

# Odor Monitoring Worksheet

Date Complaint Received: \_\_\_\_\_ Time: \_\_\_\_\_

Form Completed By: \_\_\_\_\_ Title: \_\_\_\_\_

Complaint Received From: \_\_\_\_\_

Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Details of Complaint: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Weather Conditions:

Sunny

Partly cloudy

Mostly cloudy

Overcast

Hazy

Temperature: \_\_\_\_\_ Relative Humidity: \_\_\_\_\_

Precipitation:      None      Fog      Rain      Sleet      Snow

Wind Direction Blowing From:

N      NW      NE      S      SW      SE      E      W

Wind Speed:

Calm      Light Breeze      Moderate Wind      Strong Wind

Odor Source: \_\_\_\_\_

Description of Any Changes to Normal Operation: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Actions Taken to Reduce Conflict: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Next Steps: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_