

Survey of Mitigation Measures for Poultry Operations

Please complete the form as appropriate and indicate information you consider proprietary or confidential with asterisks (*). Please use additional sheets for additional information.

General Information

Facility (Farm) Name _____

Facility ID (if applicable) _____

Facility Mailing Address _____

Facility Location Address _____

Contact Name _____

Title _____

Phone _____ Fax _____

E-mail _____

Number of Employees _____

Number of birds _____ Broilers _____ Pullets _____ Layers _____

Please check all measures you are currently using at your facility.

A. Housing

- ☐ 1. Remove cake manure daily.
- ☐ 2. Clean manure from under poultry cages daily.
- ☐ 3. Remove manure at other frequency _____ (e.g. every 3 days, every week)
- ☐ 4. Use poultry litter additives (please list additive name and manufacturer) and frequency of application _____

- ☐ 5. Use “dry” housing cleaning method at all times (if using “wet” method, please indicate why) _____
- ☐ 6. Use drinkers that don’t drip.
- ☐ 7. Adjust the height, volume, and location of drinkers daily.
- ☐ 8. Use evaporative cooling pad or tunnel ventilation.
- ☐ 9. Slope the ground of the houses/pens a minimum of 3%.

- ☐ 10. Install mounds or berms up gradient to prevent runoff into pens.
- ☐ 11. Inspect water pipes and drinkers and repair leaks.
- ☐ 12. Maintain the roof structure and manage roof runoff.
- ☐ 13. Only use fogger systems that provide water droplets average size of ≤ 50 microns or less.
- ☐ 14. Vent housing to VOC control device with an overall VOC capture & control efficiency $\geq 80\%$.
- ☐ 15. Use a belt litter removal system that dries the litter.
- ☐ 16. House animals in a tunnel ventilated houses with mechanical ventilation.
- ☐ 17. Use a litter drying system, such as a flat bed drying system.
- ☐ 18. Implement alternative mitigation measure (please list any other measures you employ)

B. Feed Operations

- ☐ 1. Feed according to NRCS guidelines.
- ☐ 2. What type of feed is used?

- ☐ 3. Remove spilled feed from housing once every 7 days.
- ☐ 4. Enclose grain in a weatherproof storage structure from Oct. - May.
- ☐ 5. Feed or dispose of feed within 48 hr of grinding and mixing feed.
- ☐ 6. Remove wet feed from animal housing within 24 hours of rain event.
- ☐ 7. Remove spilled feed from facility at least once every 7 days.
- ☐ 8. Implement alternative mitigation measure (please list any other measures you employ)

C. Handling of Solid Manure or Separated Solids

- ☐ 1. Remove all animal waste from site within 72 hrs of removal from housing.
- ☐ 2. Send all animal waste to storage facility (Waste Storage Facility).

- ☐ 3. Cover animal waste outside the housing with a waterproof covering from Oct. – May.
- ☐ 4. Use a dry manure handling system in housing, instead of a wet system.
- ☐ 5. Store all removed animal waste in an enclosure vented to a control device with $\geq 80\%$ control efficiency
- ☐ 6. Send $\geq 51\%$ of animal waste removed from site to a digester, with a control device with overall control efficiency of $\geq 80\%$, within 72 hrs of removal from housing.
- ☐ 7. Compost animal waste removed from the housing with aerated static pile vented to a control device with $\geq 80\%$ control efficiency.
- ☐ 8. Use of additive to control odor or pH for ammonia (NH_3) emissions, brand name and frequency of application. _____
- ☐ 9. Acreage used for composting _____
- ☐ 10. Acreage used for drying manure _____
- ☐ 11. Implement alternative mitigation measure (please list any other measures you employ). _____

Where does the manure go after it leaves the facility? (i.e., fertilizer, direct land application, digester)

E. Handling Manure in Liquid Form (if applicable)

- ☐ 1. Manage facility so only storm water and water used to wash eggs enters lagoon
- ☐ 2. Use phototrophic lagoons, or
- ☐ 3. Use an anaerobic treatment lagoon.
- ☐ 4. Remove solids from waste system with solid separator system, prior to the waste entering the lagoon (Waste Treatment).
- ☐ 5. Maintain lagoon pH 6.5 - 7.5.
- ☐ 6. Use aerobic lagoons designed.
- ☐ 7. Use a mechanically aerated lagoon

- ☐ 8. Maintain organic loading in the lagoon that is <3.5 mg (dry weight)/mL, or total volatile solids is < 3.5 mg/mL.
- ☐ 9. Use additional non-standard equipment or chemicals on the solid separator system that increase the percent of solid separation achieved by the separator.
- ☐ 10. Cover the lagoon or storage pond and vent to a biofilter or a control device with $\geq 80\%$ control efficiency.
- ☐ 11. Number of lagoons/ponds _____
- ☐ 12. Implement alternative mitigation measure (please list any other measure you employ)._____

ADDITIONAL INFORMATION

Please provide your best estimated capital and/or annual maintenance cost for each implemented control measure, if possible

SUGGESTIONS

Please describe in details any feasible and cost-effectiveness control measures/equipment that you would suggest for our consideration.