

Natural Resources Conservation Service
AMENDMENTS FOR TREATMENT OF POULTRY WASTES

Virginia Conservation Practice Job Sheet VA-591-JS

Natural Resources Conservation Service October 2013

Client		Date	
Farm/Tract		Field(s)	
Location		Acres	
Planner		County/SWCD	

1. Management Objectives

Alter the physical and/or chemical characteristics of the poultry litter to improve the fertilizer value of the litter, improve animal health, protect water quality, or other reasons. Check all that apply.

- | | |
|--|--|
| <input type="checkbox"/> Improve or protect air quality | <input type="checkbox"/> Improve animal health |
| <input type="checkbox"/> Increase the nitrogen value of the litter | <input type="checkbox"/> Reduce energy costs |
| <input type="checkbox"/> Improve or protect water quality | <input type="checkbox"/> Reduce odors |

Additional Narrative:

2. Description of Existing Amendment Usage (prior to application of Practice 591)

Include the product name, application rate, application location, and timing.

Note: If an amendment is already being used in the whole house at a rate equal to or greater than the rate recommended in Table 2, the producer is not eligible for this practice. If the producer is using an amount less than the recommended amount or is only applying amendment to a portion of the house for all or part of the year, then this practice can be used.

3. Amendment(s) that will be used on the operation. See Table 2 for list of approved products and product information. Describe the planned operation. Include the name of the amendment(s), the purposes for its use, and the planned outcomes. Also include total amount of product needed per 1,000 SF unit and the planned timing of application. Describe the application method, including mixing instructions, equipment needed, temperature requirements, safety requirements, etc. This can be accomplished by attaching a copy of the product label.

Note the number of years that this practice will be applied (not more than 3 years). _____

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3. Amendment(s) that will be used on the operation, continued.

4. Description of Operation

Name of Integrator _____

Instructions for Table 1. (Make additional copies of Table 1 if more than 10 houses are treated.)

1. *House Number.* List each house separately if the size or management is different from house to house. If they are all the same, list the number of houses. Ex. 1, 2, 4 or 1-3.
2. *Number of Flocks per Year.* Use the number of flocks that will be started during the contract year.
3. *Total Size of House.* Give the total square footage of one house not including entry area.
4. *Size of brood chamber.* Give the size of the brood chamber in square feet or as a percentage of the whole house.
5. *Cleanout Planned for this year?* Provide a Yes or No answer.
6. *Number of Times Amendment is needed.* Since no amendment is needed before the first flock after the house cleanout, the number of flocks needing treatment will be one less than the number of flocks grown in the contract year if a cleanout is performed.

Table 1. Description of Operation.

House Number	Number of flocks per year	Total Size of House (SF) (Subtract any areas without birds.)	Size of brood chamber (SF or % of house)	Cleanout planned for this year? (Y/N)	Number of times amendment is needed

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5. Operation and Maintenance Requirements:

A properly operated system for applying amendments to treat agricultural waste is an asset to the farm. The amendment is designed to improve or protect air and water quality or animal health or improve the consistency of the waste stream. This is an annual practice. This practice will require periodic maintenance and may also require operational items to maintain satisfactory performance. Your operation and maintenance program requirements include:

- Maintain a record of the amendment(s) used, the application rate, the date applied. Use Table 3 or attach separate records.
- Litter testing before land application of treated litter. Attach results to job sheet and to the nutrient management plan.

Additional Operation and Maintenance Requirements Specific to this Plan:

6. Client's Acknowledgement Statement:

- A. I have a copy of the job sheet and understand the contents and requirements.
- B. I have a Certified Nutrient Management Plan. I understand that revisions may be needed based upon the actual nutrient analysis of the amended litter. (A Waste Utilization Plan can be used instead of a CNMP if the litter will be removed from the farm.)
- C. It is my responsibility to obtain all necessary permits and/or rights, and to comply with all ordinances and laws pertaining to the application of this practice

Accepted by: _____ Date: _____

Planner Certification:

This practice meets the requirements of NRCS Conservation Practice Standard *Amendments for Treatment of Agricultural Waste, (Code 591)*.

Certified by: _____ Date: _____

Title: _____

Certification of Practice Completion:

I have completed a review of the information provided by the client and certify this practice has been applied. The product receipts and the litter nutrient test results are attached.

Certified by: _____ Date: _____

Title: _____

Comments:

Table 2. Approved products and Application Rates for Litter Amendments¹

Product trade name and active ingredient chemistry	PLT Sodium Bisulfate- NaHSO ₄	Al ⁺ Clear Dry Alum- Al ₂ (SO ₄) ₃ -14H ₂ O	Liquid Al ⁺ Clear A7 Acid + Liquid Alum- 7%H ₂ SO ₄ + 36% Al ₂ (SO ₄) ₃ -14H ₂ O	Klasp™ Compounded Iron III Sulfate Hydrate granules – patented formulation based on crystalline Fe ₂ (SO ₄) ₃ ·NH ₂ O
Purpose	Decrease litter pH, bind ammonia.	Decrease litter pH, bind ammonia and soluble phosphorus.	Decrease litter pH, bind ammonia and soluble phosphorus.	Decrease litter pH, bind ammonia and soluble phosphorus.
Container Size	50 lb. bag, 2,000 lb super sack	50 lb. bag, 2,000 lb super sack, and bulk	Bulk	50 lb. bag, 2,000 lb super sack
Rates of application	93 lbs per 1,000 SF	100 lbs per 1,000 SF	25 gals per 1,000 SF	100 lbs per 1,000 SF (based on comparative studies to date with Alum)
Time of application in brood and grow-out chambers	Apply to whole house as close to chick placement as possible and not more than 1-day prior. For split applications, apply in off-chamber as close to bird migration as possible. Can be applied in presence of birds.	Apply whole house 1-7 days before chick placement. Apply 5-7 days for dry litter. Consider liquid acid alum for very dry litter.	Apply whole house 1-5 days before chick placement; 1-2 days if wet litter, 3-5 days if dry litter. Cannot be used when birds are in the house.	Apply to whole house or brood chamber 1-7 days before chick placement or bird movement in off-chamber. Apply 5-7 days prior to bird placement for very dry litter. Can be applied in presence of birds.
Method of application	Spinner or drop spreader, no incorporation.	Spinner or drop spreader, incorporate top inch if dry litter.	Certified applicator, no incorporation.	Spinner or drop spreader, no incorporation required.
Safety concerns	Wear gloves, goggles, particle mask, and clothing to protect exposed skin.	Wear gloves, goggles, particle mask, and clothing to protect exposed skin.	Wear gloves, goggles, particle mask, and clothing to protect exposed skin.	Wear gloves, goggles, particle mask, and clothing to protect exposed skin.
Special handling and storage requirements	Hygroscopic; store in dry location.	Hygroscopic; store in dry location.	Requires special equipment and trained applicator. DOT-HAZMAT.	Store in dry location. 2,000 lb super sacks are DOT-HAZMAT.

Adapted from USDA-NRCS, Maryland, October 2008. Revised May 2009.

Notes:

¹ Other products with ammonia and/or phosphorus-binding efficacy may be added to this list when scientific documentation becomes available.

Brand names are mentioned in this job sheet for informational purposes only. NRCS does not intend any endorsement of brands mentioned, nor criticism of similar products not mentioned. Contents of this table may be reproduced for non-commercial purposes, provided that USDA-NRCS, Virginia, is credited.

