STATEMENT OF WORK

Comprehensive Nutrient Management Plan
Delaware

These deliverables apply to this individual plan. For other planned practice deliverables refer to those specific Statements of Work.

PLANNING

NOTE: A comprehensive nutrient management plan (CNMP) should address all land units that the animal feeding operation (AFO) owner and/or operator owns or has decision-making authority over and on which manure and organic by-products will be generated, handled, stored, or applied.

NOTE: NRCS policy requires that technical assistance provided for conservation planning follow the guidance and processes in the NRCS National Planning Procedures Handbook (NPPH). For the purposes of providing conservation planning technical assistance, Technical Service Providers are to complete the actions required in the first seven Steps of the NPPH planning process. All deliverables below are based on that requirement. For detailed guidance, planners should refer to the appropriate section of the NRCS NPPH (CNMP Technical Guidance).

Deliverables:

1. Provide documentation that addresses the following items:
    a. Site information
        i. Names, phone numbers, and addresses of the AFO owner(s) and operator(s).
        ii. Location of production site: legal description, driving instructions from nearest post office, and the emergency 911 coordinates.
        iii. Farmstead sketch.
        iv. Plat map or local proximity map.
        v. Emergency action plan covering: fire, personal injury, manure storage and handling, and land application operations.
        vi. Operation procedures specific to the production site and practices.
        vii. Existing documentation of present facility components that would aid in evaluating existing conditions, capacities, etc. (i.e., as-built plans, year installed, number of animals a component was originally designed for, etc.).
    b. Production information
        i. Animal types, phases of production, and length of confinement for each type at this site.
        ii. Animal count and average weight for each phase of production on this site.
        iii. Calculated manure and wastewater volumes for this site.
        iv. Manure storage type, volume, and approximate length of storage.
    c. List all required and/or facilitating practices

2. Provide documentation of compliance with all applicable permits or certifications
    a. Federal, Tribal, State or local permits and/or ordinances.
    b. Operator or manager certifications.
    c. Manure applicator certifications.
    d. Record of inspections or site assessments.

3. Provide land application site information documentation
    a. Date plan prepared.
    b. Written manure application agreements. (Where Applicable)

c. Aerial maps of land application area.
d. Individual field maps with marked setbacks, buffers, and waterways, and environmentally sensitive areas, such as sinkholes, wells, gullies, tile inlets, etc.
e. Landowner names, addresses, and phone numbers.
f. Legal description of land sites, including watershed codes.
g. Specific and unique field identification codes.
h. Land use designation.
i. Soil map, with appropriate interpretations.
j. Risk assessments for potential nitrogen or phosphorus transport from fields. (See NRCS GM_190, Part 402, Nutrient Management, Section 402.07)
k. Land treatment practices planned and applied, and level of treatment they provide.

4. Provide manure application plans documentation
    a. Crop types, realistic yield targets, and expected nutrient uptake amounts.
    b. Application equipment descriptions and methods of application.
    c. Expected application seasons and estimated days of application per season.
    d. Estimated application amounts per acre (volume in gallons or tons per acre, and pounds of plant available nitrogen, phosphorous as P205, and potassium as K20 per acre).
    e. Estimate of acres needed to apply manure generated on this site, respecting any guidelines published for nitrogen or phosphorous soil loading limits.

5. Provide actual activity records
    a. Soil tests not more than 5 years old.
    b. Manure test annually for each individual manure storage containment.
    c. Planned and applied rates, methods of application, and timing (month and year) of nutrients applied. (Include all sources of nutrients, i.e., manure, commercial fertilizers, etc.)
    d. Current and planned crop rotation.
    e. Weather conditions during nutrient application. (Optional)
    f. General soil moisture condition at time of application (i.e., saturated, wet, moist, dry). (Optional)
    g. Actual crop and yield harvest from manure application sites.
    h. Record of internal inspections for manure system components.
    i. Record of any spill events.

6. Document mortality disposal actions
    a. Plan for mortality disposal.
    b. Methods and equipment used to implement the disposal plan.

7. Operation and Maintenance requirements
    a. Detailed operation and maintenance procedures for the conservation systems, holding facility, etc., contained in the CNMP. This would include procedures as calibration of land application equipment, storage facility emptying schedule, and soil and manure sampling techniques, etc.

8. Document the AFO owner’s/operator’s consideration of the six CNMP elements. It is recognized that a CNMP may not contain all six elements; however, they need to be considered by the AFO owner/operator during development of the CNMP, and the owner's and/or operator's decisions regarding each must be documented. These elements are as follows:
    a. Manure and Wastewater Handling and Storage

b. Land Treatment Practices
c. Nutrient Management
d. Record Keeping
e. Feed Management
f. Other Utilization Activities

NOTE: The degree to which each CNMP element is addressed is determined by the General Criteria and must meet the specific criteria provided for each element in the National Planning Procedures Handbook (NPPH), Sections 600.53 and 600.54 .

9. CNMP's will contain actions that address water quality criteria for the feedlot, production area, and land on which the manure and organic by-products will be applied (i.e., as a minimum the plan would address CNMP elements a, b, c, and d listed in item 8 above). This includes addressing soil erosion to reduce the transport of nutrients within or off of a field to which manure is applied. For AFO owners and/or operators who do not land apply any manure or organic by-products, the CNMP would address only the feedlot and production areas (i.e., address CNMP elements a, d, and f listed in item 8 above).

10. Document that the CNMP meets all applicable local, Tribal, State, and Federal laws and regulations. When applicable, ensure that USEPA-NPDES or State permit requirements (i.e., minimum standards and special conditions) are addressed.

11. Certify that the CNMP meets requirements of the NRCS Field Office Technical Guide (FOTG) conservation practice standards for all practices contained within it.

12. Progress reporting

Note: *State-Specific Deliverables may be added as appropriate.*

REFERENCES

- NRCS National Planning Procedures Handbook (CNMP Technical Guidance)
- NRCS Field Office Technical Guide
- NRCS National Engineering Manual
- NRCS National Agronomy Manual
- NRCS Environmental Compliance Handbook
- NRCS Cultural Resources Handbook

Note: *State-Specific references may be added as appropriate.*