

ADEM AFO/CAFO COMPREHENSIVE WMSP INFORMATION REVIEW CHECKLIST

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NRCS CNMP PREPARATION ITEMS/CONSIDERATIONS

Cover and Signature Page

- a. Name of owner/operator
- b. Facility location (physical address), mailing address, and phone number
- c. Latitude and longitude of the production area entrance
- d. Type and size of the AFO
- e. Plan period
- f. All required signatures for acceptance of a CNMP in the State

1. Background and Site Information

1.1 General description of the operation

- 1.* Description of existing production and nutrient management components
- 1 Operation procedures specific to the production site and practices
- 2.1.3 Description of planned changes and additions (e.g., required conservation practices)
- 2.1.4 Written manure application agreements (if applicable) with landowner names, addresses, and phone numbers

1.2 Sampling, calibration, and other statements

- 2.2.1 Federal, Tribal, State, or local permits and/or ordinances, if applicable
- 2.2.2 Operator or manager certifications
- 2.2.3 Manure applicator certifications
- 2.2.4 Detailed operation and maintenance procedures for the conservation systems, holding facility, etc., contained in the CNMP
- 2.2.5 Land application equipment calibration guidelines
- 2.2.6 Liquid containment facility closure plan
- 2.2.7 Soil sampling guidelines
- 2.2.8 Manure sampling guidelines

1.3 Natural resource concerns

- 2.3.1 Environmental Effects worksheet (NRCS-CPA-52) [Internal NRCS form, not submitted](#)
- 2.3.2 Cultural resource review form completed

2. Manure and Wastewater Handling and Storage

2.1 Map(s) of production area

- 3.1.1 Detailed Local proximity map, aerial map

2.2 Production area conservation practices (Including air quality impact mitigation, if required)

- 3.2.1 Design and construction of new production buildings according to Alabama Job Sheet AL6B, Environmental considerations for Design and Construction of Poultry and Livestock Shelters [Considerations only](#)

2.3 Manure storage

- 3.31 Certification of liquid waste holding structures, and other structures, if NRCS assistance provided

3.4 2.4 Animal inventory

2.5 Normal animal mortality management

- 3.5.1 Location clearly delineated if by burial

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- 2.6 Planned manure exports off the farm**
- 2.7 Planned manure imports onto the farm**
- 2.8 Planned internal transfers of manure**

3. Farmstead Safety and Security

- 3.1 Emergency Response Plan**
- 3.2 Biosecurity measures, including biosecurity protocol for farm visitors and disposal of animal veterinary waste**
- 3.3 Catastrophic animal mortality management**

4.3.1 Location clearly delineated if by burial

- 3.4 Chemical Handling check list if the CNMP will be utilized for an NPDES permit or ADEM/CAFO registration**

4. Land Treatment

4.1 Map(s) of fields and conservation practices

- 5.1.1 Local proximity map
- 5.1.2 Aerial maps of land application areas
- 5.1.3 Fields delineated with setbacks, buffers, waterways, conservation practices planned or other site-specific features important to nutrient management planning, (risers, inlets, wells, etc.)
- 5.1.4 Identification of sensitive areas such as sinkholes, streams, springs, lakes, ponds, wells, wetlands, gullies, drainage ditches, drinking water sources, etc.
- 5.1.5 Other site information or features of significance to nutrient management planning, such as property boundaries and occupied dwellings
- 5.1.6 Clear and legible legends and labels on all maps

4.2 Land treatment conservation practices

- 5.2.1 Requirements to achieve soil loss tolerance on land application area (i.e., planned residue management, cropping sequence or rotation, erosion control structures)
- 5.2.2 Required conservation practices are planned and clearly delineated and documented
- 5.2.3 Rotational grazing plan, if wastes are applied to pasture land adjacent to unfenced buffers

5. Soil and Risk Assessment Analyses

5.1 Soil information

- 6.1.1 Soil map, with appropriate interpretations, of all application fields, burial sites, construction sites, or other sites involving land disturbance

- 5.2 Predicted soil erosion**
- 5.3 Nitrogen and phosphorus risk analyses**
- 5.4 Additional field data required by risk assessment procedure(s)**

6. Nutrient Management

- 6.1 Field information**
- 6.2 Manure application setback distances**
- 6.3 Soil test data**

7.3.1 Soil tests not more than three years old

6.4 Manure nutrient analyses

7.4.1 Current manure test (or established trend) for each source of manure applied

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- 6.5 Planned crops and fertilizer recommendations**
- 6.6 Manure application planning calendar**
- 6.7 Planned nutrient applications**
- 6.8 Field nutrient balance**
- 6.9 Manure inventory annual summary**
- 6.10 Fertilizer material annual summary**
- 6.11 Farm nutrient balance**
- 7. Feed Management**
- 8.1 Included only if a feed management plan is required to reduce the total nutrients excreted by the livestock on the farm
- 8. Other Utilization Options**
- 9.1 Included only if utilization options other than land application are planned
- 9. Recordkeeping**
- 10.1 Recordkeeping information is contained in the PAD for specific recordkeeping items, including tables and forms
- 10. References**
- 11.1 Publications
- 11.2 Software and data Sources, including pertinent version information
- 11. Producer Activity Document (PAD)**
- 12.1 Application equipment descriptions and methods of application
- 12.2 Weather conditions during nutrient application
- 12.3 General soil moisture condition at time of application (i.e., saturated, wet, moist, dry)
- 12.4 Actual crop and yield harvest from manure application sites
- 12.5 Record of internal inspections for manure system components
- 12.6 Record of any spill events (can be added in the Producer Activity Checklist)
- 12.7 Record of ADEM's required daily, weekly, and yearly inspections, if a CAFO; 5-year PE certification for liquid waste facilities
- 12.8 Record of manure transfers/sales
- 12.9 Land application equipment calibration guidelines
- 12. Required Documents**
- 13.1 Printed copy of the CNMP document
- 13.2 CNMP document file (If using MMP, include the ".nat-cnmp.doc" file)
- 13.3 PAD document file (If using MMP, include the ".nat-prd.doc" file)
- 13.4 Nutrient Management planning tool plan file (If using MMP, include the ".mmp" file)
- 13.5 Revised Universal Soil Loss Equation (RUSLE2) database file (.gdb extension)
- 13.6 Conservation plan xml file, Customer Service Toolkit (.consplan.xml extension) [Not developed](#)
- 13.7 If requested, the Geographic Information Systems (GIS) shape files created for the operation

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ADEM WMSP ADMINISTRATIVE REVIEW ITEMS/CONSIDERATIONS

ADEM Required WMSP Components/Considerations That Must Be Considered And Addressed As Appropriate In The WMSP In Addition To NRCS CNMP Items

1 ADMINISTRATIVE

- 2 Current ADEM NOR and submitted WMSP information/content is consistent
- 3 Includes applicable NRCS 590 nutrient management planning **CRITERIA**
- 4 Includes applicable NRCS 590 NMP **CONSIDERATIONS** on an individual site basis necessary to ensure the protection of water quality
- 5 Includes applicable NRCS 590 nutrient management **PLANS AND SPECIFICATIONS**
- 6 Includes applicable NRCS 590 nutrient management **OPERATION AND MAINTENANCE**
- 7 ADEM WMSP QCP certification submitted, or ADEM accepted certification language included on WMSP signature page
- 8 WMSP signed by QCP and owner/operator
- 9 Electronic/scanned (PDF) copy submitted to ADEM - email, disc, post to ASWCC FTP site, etc. - Accept paper copy if electronic submittal is not feasible
- 10 NRCS Manure Management Planner (MMP) used? If so, provide electronic copy of MMP inputs/outputs
- 11 Other Nutrient management planning tool(s) used that provides MMP equivalent CNMP. If so, provide electronic copy of inputs/outputs
- 12 Electronic copies of all plans, designs, considerations, tests, diagrams, figures, drawings, calculations, spreadsheets, worksheets, tables, inputs, outputs, reference documents or cites, or other supporting documents or cites, utilized in MMP or other templates/methods.
- 13 Record of QCP inspections or site assessments
- 14 Copies of all Phosphorus Index Worksheets
- 15 **Primary Facility Map should be narrow focus with an accurate scale and north arrow, and indicate**
- 16 Aerial map
- 17 Unique labels and construction dates noted for all structures/wells
- 18 Confinement Buildings with building numbers as assigned by the farmer/integrator
- 19 Farm Name on buildings only if duplicate numbers are used at the same location
- 20 Confinement Areas
- 21 Waste Storage/Treatment Structures (lagoons, pits, drystack, composter, freezer, incinerator, etc.)
- 22 Mortality Management Structures/Methods (normal/daily and emergency)
- 23 Temporary Litter Storage Areas
- 24 All Onsite Wells (active, capped, decommissioned) and dates of activities
- 25 All Offsite Wells (active, capped, decommissioned) within 125 feet of confinement building or waste structure
- 26 Property Lines
- 27 All Offsite DCSHP (Residences and Public Use Areas) within 400 feet of confinement building or waste structure

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28 **Secondary Facility Map(s), at a minimum, must show**

- 29 Outline of legal boundary of entire property
- 30 Outline of the facility
- 31 Confinement buildings/pens
- 32 Perennial, intermittent, and ephemeral streams, drainage ditches, non-vegetated drainage ways, etc.
- 33 Lakes, springs, ponds, water wells, wetlands, etc.
- 34 All surrounding roads and highways (one-mile radius)
- 35 High tension power lines, pipelines and railroad tracks
- 36 Buildings and structures with labels
- 37 Tanks, chemical storage, feed/silage storage
- 38 Waste Storage/Treatment Structures (lagoons, pits, drystack, composter, freezer, incinerator, etc.)

39 **Facility Information**

- 40 Existing documentation of present facility components that would aid in evaluating existing conditions, capacities, i.e., as-built plans, year installed, number of animals for which a component was originally designed, etc.
- 41 Compliant with ADEM buffer setback distance for all confinement/treatment structures
- 42 Compliant with ADEM buffer setback distance for all onsite and offsite wells
- 43 If not compliant, appropriate property line and DCSHP buffer waiver(s) attached
- 44 Certification of decommissioned wells
- 45 Certification of liquid waste holding structures, and other structures **if NRCS not involved**
- 46 Copies of all liquid waste storage/treatment structures plans, designs, diagrams, (plan view and cross-section), figures, drawings, calculations/worksheets, etc.
- 47 Date of QCP certification and/or NRCS certification of existing waste storage/treatment structures (lagoons, pits, composter, etc.)

48 **Land Application Sites/Fields**

- 49 Land application sites owned or leased
- 50 Land application landowners names, addresses, and phone numbers
- 51 Latitude and longitude of the middle of each land application field
- 52 Full date (day, month, and year) when soil test performed
- 53 Unique name/label for the land application field
- 54 Application equipment descriptions and methods of application
- 55 Edge of field **(1) buffer widths, (2) slopes, (3) soil types, (4) animal exclusion/management, (5) Phosphorus Index results, and/or (6) ground-level vegetative filter strip** sufficient to prevent sediment/nutrient transport offsite or to a non-vegetated drainage feature, drainage course, ditch, swale, pipe, waterbody, etc. during land application (provide photo-documentation as needed) in order to ensure the protection of water quality
- 56 Notes from onsite investigation of the 50-foot contiguous area(s) that receive runoff water from the edge of field at a land application site to ensure that litter is not spread within required buffer distances of a non-vegetated drainage feature or water

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- 57 If vegetated filter is not utilized, animal access is prevented for sufficient buffer width with significant shade or with a tree canopy, considering slope and soil types, to ensure that the soil horizon and leaf litter layer remain un-impacted (provide photo-documentation as needed) in order to ensure the protection of water quality
- 58 If extended buffer distance is used to lower Phosphorus Index Score to allow land application, the extended buffer distance is applied to all State waters - perennial, intermittent, and ephemeral streams (blue line and dotted blue line), drainage features, lakes, wetlands, etc.
- 59 Minimum 20-foot vegetated filter strip at field locations where significant runoff leaves the application field to riparian areas, unless alternative justification is provided to ensure the protection of water quality
- 60 **(1)** Include statement that winter land application (generally from November 15 through February 15 of the next year) will not be conducted, **OR** **(2)** If winter land application is proposed, a site specific winter land application component plan is included to allow nutrient application at significantly reduced rates based on cold weather crop, reduced nutrient needs, predicted temperatures/precipitation, soil, slope, etc.
- 61 **Spill Prevention Control & Countermeasures (SPCC)**
- 62 SPCC plan, structures, location, containment, management practices, records, response plans, etc. for stored pesticides/herbicides, fertilizers, chemicals, fuels, other pollutants. ADEM Admin. Code rs. 335-6-7-.02(rr), 335-6-7-.20(3), 335-6-7-.21(1)(e), 335-6-7-.25(2)(l)
- 63 Ensure secondary containment or approved equivalent based on the location and tank size of the stored pollutants. ADEM Admin. Code r. 335-6-6-.12(r), and Title 40, Code of Federal Regulations, Part 112 (40 CFR 112).
- 64 Ensure that stored fuels/chemicals/pollutants are located away from wells or have secondary containment as needed to minimize the risk of groundwater contamination from leaks/spills
- 65 Ensure that stored fuels/chemicals/pollutants are located away from ponds, surface waters, drainage features, etc. or have secondary containment as needed to minimize the risk of discharge from leaks/spills
- 66 **Other Component Plans and Records**
- 67 Provisions for annual QCP inspection, if a CAFO.
- 68 Provisions for Alabama PE 5-year required inspections, if a CAFO with liquid waste confinement and/or treatment structures
- 69 Record/log for operator weekly inspections
- 70 Record of operator one-time land application of wastes at offsite fields not listed in WMSP
- 71 Detailed operation and maintenance procedures for the conservation systems, holding facility, etc.
- 72 Management practices to minimize offsite odor
- 73 Exhaust fan cleaning schedule and records
- 74 Storage facility emptying and maintenance schedule.
- 75 Emergency plan for liquid waste facilities to respond to catastrophic or chronic precipitation
- 76 Dates and schedule (Month and Year) for soil sampling and waste analysis
- 77 **Design/Operation**
- 78 LW confinement building concrete floor design, construction standard, leak evaluation

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- 79 DW poultry confinement building foundation (suitable clay/material, thickness, etc.)
- 80 New/Expanded facilities liquid waste storage treatment structures since 4-1-99 meet or exceed Lagoon technology; New-Expanded waste storage ponds are prohibited
- 81 North Alabama - new/expanded facilities LW storage treatment structures since 4-1-99 have 180 days storage/management capacity
- 82 South Alabama - new/expanded facilities LW storage treatment structures since 4-1-99 have 120 days storage/management capacity
- 83 Management and schedule for liquid waste holding structure dewatering and solids removal
- 84 Mortality Management Structure design notes indicating ability to adequately handle daily mortality
- 85 Fencing around lagoons
- 86 **Construction Best Management Practices plan (CBMPP)**
- 87 Significant pre-construction land disturbance and preparation activities performed in support or in advance of construction activity including, but not limited to, logging, land clearing, grubbing, grading, placement of fill, blasting, reclamation, dewatering, drainage feature alteration, etc.
- 88 Regulated construction also includes vehicle/equipment parking areas, equipment/chemical/supply areas, material stockpiles, temporary office areas, access roads used during construction, etc.
- 89 Effective erosion control practices, including practice description and design standards
- 90 Effective sediment [settleable solids, suspended solids, and colloidal solids (turbidity)] control practices, including practice description and design standards
- 91 Certification by the QCP that effective BMPs will be implemented in accordance with the *Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas, March 2009* http://swcc.alabama.gov/pages/erosion_handbook.aspx
- 92 Detailed construction map showing the proposed structures, site elevations, drainage patterns, locations of all proposed BMPs, etc.
- 93 Provisions for regular inspections by the farmer, construction contractor, and the QCP who prepared the CBMPP, particularly after rain events to ensure BMP effectiveness and timely maintenance
- 94 Planned practices to stabilize, cover, and/or permanently vegetate disturbed areas
- 95 Onsite existing well closure plan as needed prior to construction
- 96 Diversion or dredge/fill impacts to streams, ponds, wetlands, lakes, drainage features, or other potential waters, etc. Plan specifics as needed prior to construction
- 97 Written coordination/approval from the US Army Corps of Engineers and/or NRCS for the diversion or dredge/fill impacts to streams, ponds, wetlands, lakes, drainage features, or other potential waters. Approval needed prior to commencing construction disturbance.
- 98 Includes provisions for effective BMPs to be implemented/maintained at all times for the prevention/minimization of pollutants in stormwater runoff at the facility, offsite conveyances, and affected State waters, until the site is fully stabilized and permanent vegetation established.
- 99 **Good Housekeeping**
- 100 Litter spillage required to be cleaned up in timely manner
- 101 Vegetation is kept mowed/trimmed
- 102 Regular removal and proper disposal of trash, junk, debris, garbage, etc.

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- 103 Proper handling and disposal of any toxic or hazardous waste
- 104 Control nuisance pests and disease vectors (flies, rodents, etc.)
- 105 Immediate cleanup of feed spillage, repair water leaks, etc.
- 106 Inspection and repair of liquid waste confinement building leaks, foundation cracks, etc.
- 107 Air pollution minimization measures (dust, fumes, etc.); regular confinement building exhaust fan cleaning
- 108 Preventive maintenance schedule and methods
- 109 Procedures to notify ADEM in case of unpermitted discharge
- 110 **ADAI Applicable Requirements**
- 111 Mortality transport approval/permit requirements
- 112 Mortality compost transport approval/permit requirements
- 113 **Well Location and Operations Management**
- 114 Well location meets ADEM buffers
- 115 Wellhead is elevated or otherwise protected from surface stormwater run-on
- 116 Well bore is properly cased
- 117 Unused or out-of-service wells are located and properly closed/decommissioned
- 118 Wells installed after 12/31/2000 are at least 100 ft from all confinement buildings and waste holding structures
- 119 Ensure that stored fuels/chemicals/pollutants are located away from wells or have secondary containment as needed to minimize the risk of groundwater contamination from leaks/spills
- 120 **Incinerator Operation**
- 121 Incinerator registration with ADEM Air Division
- 122 Incinerator location, buffers, operation, ash management, etc.
- 123 **Other**
- 124 Emergency Response Plan completed
- 125 **Permanent Facility Closure**
- 126 Complete closure/remediation of facility in accordance with ADEM Admin. Code. r. 335-6-7-.24 and considering 335-6-7-.20(27)
- 127 Removal of all animals from the farm
- 128 Cleaning/removal of all animal waste/mortality from all confinement buildings, storage/treatment structures
- 129 Cleaning/removal of all feed, silage, stored pollutants, etc. from all other areas of the operation
- 130 Cleaning/removal of all other pollutants from all other areas of the operation
- 131 Stabilize and establish permanent vegetative cover of all disturbed areas of the operation
- 132 Full cleanout/rehabilitation of all waste pits/ponds/lagoons
- 133 Removal and proper disposal of all trash, garbage, and debris in accordance with applicable State and federal requirements
- 134 Removal and proper management of all stored fuels/chemicals in accordance with applicable State and federal requirements
- 135 Cleanup/remediation of all spills/leaks and contaminated soils in accordance with applicable State and federal requirements

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- 136 Proper disposal and/or land application of all dry/liquid animal waste in accordance with ADEM accepted WMSP
- 137 As needed, submit closure plan and ensure that unused or out-of-service wells are located and properly closed/decommissioned
- 138 **WMSP Review Quality Control/Assurance Prior To Submittal**
- 139 Review/check **ALL** calculations and tables for accuracy
- 140 Review format and content to ensure WMSP is comprehensive, complete and correct
- 141 Confirm that WMSP is dated, signed/certified by the QCP, and signed by the Operator/Owner

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