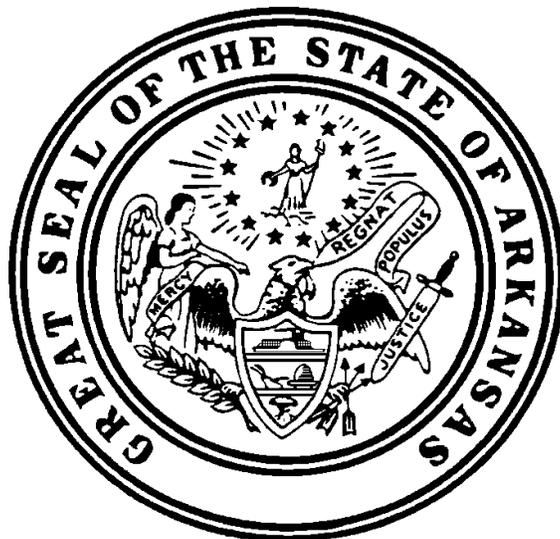


Pollution Control and Ecology Commission #014.00-005

Arkansas Pollution Control and Ecology Commission

Regulation 5



Liquid Animal Waste Management Systems

Approved by Arkansas Pollution Control and Ecology Commission: May 24, 2012

Regulation Number 5
Liquid Animal Waste Management Systems

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Chapter 1 : TITLE, PURPOSE AND APPLICABILITY

Reg. 5.101 Title

The following rules and regulations of the Arkansas Pollution Control and Ecology Commission adopted pursuant to the Arkansas Water and Air Pollution Control Act, Ark. Code Ann. § 8-4-101 *et seq.*), shall be known as Regulation No. 5, Liquid Animal Waste Management Systems.

Reg. 5.102 Purpose

The purpose of this regulation is to establish the minimum qualifications, standards and procedures for issuance of permits for confined animal operations using liquid animal waste management systems within the state and for the issuance of permits for land application sites within the state. This regulation provides management, operational and maintenance procedures necessary to prevent point source pollution and minimize nonpoint source pollution to the waters of the state and control to the degree practicable the generation of offensive odors by regulated confined animal operations. The siting and separation requirements set forth in this regulation are intended to protect water quality, to protect public health, and to abate odor. In order to minimize odor, the Arkansas Pollution Control and Ecology Commission's policy is to encourage permittees to adopt a good neighbor policy and consider the use of chemical or biological additives or other best management practices in the operation of liquid animal waste management systems.

Reg. 5.103 Applicability

The provisions of this regulation are applicable to the operation of hog, poultry or dairy farms or other confined animal operations using liquid animal waste management systems.

Reg. 5.104 Policy for Compliance

It shall be the policy of the Department to provide a reasonable time for holders of existing permits to comply with new or revised provisions of this regulation. Holders of existing permits shall achieve compliance with this regulation at the earliest practicable time, not to exceed five years from the effective date of the regulation.

Reg. 5.105**Exemption**

Any confined animal operation using a liquid waste disposal system shall be exempt from the requirements of this regulation if the owner or operator obtains and maintains active coverage under either an National Pollutant Discharge Elimination System individual or general permit for discharges from a concentrated animal feeding operation.

Chapter 2 : DEFINITIONS

Reg. 5.201 Definitions

The following definitions shall apply:

Act means the Arkansas Water and Air Pollution Control Act, Ark. Code Ann. § 8-4-101 *et seq.*

Animal feeding operation (AFO) means a lot or facility (other than an aquatic animal production facility) where the following conditions are met: animals (other than aquatic animals) have been, are, or will be stabled or confined and fed or maintained for a total of 45 days or more in any 12-month period, and crops, vegetation, forage growth, or post-harvest residues are not sustained in the normal growing season over any portion of the lot or facility.

Best Management Practices means schedules of activities, prohibited activities, maintenance procedures and management practices that prevent or reduce pollution of the waters of the state as set forth in this regulation and the General Permit.

Commission means the Arkansas Pollution Control and Ecology Commission

Confined Animal Operation means any lot or facility where livestock, fowl, or other animals have been, are or will be stabled or confined and fed or maintained and where crops, vegetation, forage growth or post-harvest residues are not sustained in the normal growing season over significant portions of the lot or facility.

Concentrated animal feeding operation (CAFO) means an AFO that is defined as a Large CAFO or as a Medium CAFO pursuant to 40 CFR 122.23, or that is designated as a CAFO in accordance with 40 CFR 122.23(c). Two or more AFOs under common ownership are considered to be a single AFO for the purposes of determining the number of animals at an operation, if they adjoin each other or if they use a common area or system for the disposal of wastes.

Department means the Arkansas Department of Environmental Quality, or its successor.

Director means the Director of the Arkansas Department of Environmental Quality or his/her designated representative.

Liquid Animal Waste Management System means any system used for the collection, storage, distribution or disposal of animal waste in liquid form generated by a confined animal operation.

Site Management Plan means a plan prepared by the United States Department of Agriculture Natural Resource Conservation Service, an Arkansas Natural Resources Commission water quality technician, Certified Nutrient Management Planner, the University of Arkansas Cooperative Extension Service, or a professional engineer registered in the state of Arkansas which includes a detailed map of the land application site showing all buffer zones, a description of the land use and the crops grown on the site, and a land use agreement if the site is not owned by the permittee. In Nutrient Surplus Areas designated by Ark. Code Ann. § 15-20-1104, persons drafting nutrient management plans must be certified by the Arkansas Natural Resource Commission in accordance with Ark. Code Ann. § 15-20-1106 and Arkansas Natural Resources Commission Title 20, "Rules Governing the Arkansas Nutrient Management Planner Certification Program."

Waste Management Plan means a plan prepared by the United States Department of Agriculture Natural Resource Conservation Service, an Arkansas Natural Resources Commission water quality technician, the University of Arkansas Cooperative Extension Service, or a professional engineer registered in the state of Arkansas detailing the management and disposal of liquid wastes generated in a confined animal operation. In Nutrient Surplus Areas designated by Ark. Code Ann. § 15-20-1104, persons drafting nutrient management plans must be certified by the Arkansas Natural Resource Commission in accordance with Ark. Code Ann. § 15-20-1106 and Arkansas Natural Resources Commission Title 20, "Rules Governing the Arkansas Nutrient Management Planner Certification Program."

Waters of the state means all streams, lakes, marshes, ponds, watercourses, waterways, wells, springs, irrigation systems, drainage systems, and all other bodies or accumulations of water, surface and underground, natural or artificial, public or private, which are contained within, flow through, or border upon this state or any portion of this state as defined by the Act.

Unless manifestly inconsistent with this regulation, other words and phrases used in this regulation shall have the same meaning as used in the Act.

Chapter 3 : PERMIT, APPLICATIONS AND PROCEDURES

Reg. 5.301 Requirements for a Permit

No confined animal operation using a liquid animal waste disposal system shall be constructed or operated unless the owner has first obtained a permit from the Department.

Reg. 5.302 Permit Application Process

(A) Application and permitting procedures for new or major modifications as described in Reg. 5.305 shall comply with the Arkansas Pollution Control and Ecology Commission Regulation No. 8, Administrative Procedures. The Department shall provide a copy of the public notice or similar written notification of the operation to the county quorum court or, if located within an area zoned by a city, the city zoning authority. Applications for a permit under this regulation shall be made on forms provided by the Department. An applicant for a new or modification of an existing liquid animal waste disposal permit shall make a reasonable effort to notify all adjacent land owners that a complete application for a liquid animal waste disposal permit is on file with the Department. This notice shall also contain the permittee's name, mailing address, type of permit action, type of facility, size of facility and location. The land owners shall be notified at the same time that the permit application is submitted to the Department. The applicant must provide a copy of the letter sent to each adjacent land owner with the application. Any appeal rights are governed by the provisions of Regulation No. 8.

Reg. 5.303 Prohibition

The operator of a confined animal operation constructed and operated as authorized by permit in accordance with the provisions of this regulation shall not allow or cause a point source discharge from any part of the liquid animal waste management system.

Reg. 5.304 Reserved

Reg. 5.305 Permit Modification

When the Director receives any information (for example, receives information submitted by the permittee as required in the permit or by the Department) he or she may determine whether or not one or more of the causes for modification exist. If cause exists, the Director may modify the permit accordingly and may request an updated application, if necessary. When a permit is modified, only the conditions subject to modification are reopened. If cause does not exist, the Director shall not modify the permit.

If a permit modification satisfies the criteria in Reg. 5.306 for minor modifications, the permit may be modified without public notice. Otherwise, a draft permit must be prepared in accordance with Reg. 5.302 and Regulation No. 8.

Causes for modification. The following are causes for modification, but are not limited to:

- A. *Volume Increase.* A greater than ten percent increase in the volume of animal waste, as excreted, generated by the facility over what was allowed by the original permit or the last major modification for an increase in volume.
- B. *Sites.* Addition of land application sites.
- C. *Waste Management Plan.* Change in waste treatment, type, handling or disposal.

Reg. 5.306 Minor modifications of permits

Upon receipt of written consent by the permittee, the Director may modify a permit to make the changes listed in this section. Such changes will be deemed minor modifications to the permit. Minor modifications allowed under this section may be made administratively in compliance with Reg. 5.302. Any modification not made under this section shall be deemed a major modification and must follow the permitting requirements contained in Regulation No. 8.

Minor modifications may only:

- A. Correct typographical errors;
- B. Allow for a change in ownership or operational control of a facility (transfer of the permit) where the Director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the Director;
- C. Transfer permitted land application sites to another permit for the same waste source.
- D. Addition of sites not associated with a greater than ten percent increase in volume of waste as excreted, needed to provide more land to lower nutrient loadings in an effort to be proactive in environmental protection. Permittee must have an active confined animal feeding operation associated with the permit;
- E. Remove land application sites from a permit;
- F. Changes or practices not associated with a significant increase in storage volume in an

effort to be proactive in environmental protection; or
G. Removal of educational requirements from waste management plan.

Chapter 4 : TECHNICAL REQUIREMENTS

Reg. 5.401 Approval of Design

No liquid animal waste management system shall be constructed, modified, or placed into operation unless in accordance with final design plans and specifications approved by the Department.

Reg. 5.402 Design Requirements

(A) Designs and waste management plans shall be in accordance with this Chapter and the following United States Department of Agriculture Natural Resource Conservation Service technical publications:

- (1) Field Office Technical Guide, as amended.
- (2) Agricultural Waste Management Field Handbook, as amended.

Reg. 5.403 Siting Requirements

Confinement buildings, settling basins, holding ponds, and other liquid animal waste containment structures shall not be constructed within 1,320 feet of the nearest existing occupied dwelling for confined animal operations in excess of the following numbers of animals: 600 beef cattle, 430 dairy cows, 1500 finishing hogs, 600 sows, 6000 nursery pigs, 33,000 turkeys, or 130,000 chickens. A buffer distance of 500 feet shall apply to all other facilities. These buffer distances shall not apply if the existing dwelling is owned by owners or operators of the liquid animal waste management system or if the adjoining property owner consents in writing. Confined animal operations existing as of 1992 and proposing to construct a liquid animal waste containment structure in order to reduce waste/wastewater run-off to waters of the State may be considered exempt from these buffer distances by the Director. These buffer distances do not apply to confinement buildings, settling basins, holding ponds or other liquid animal waste containment structures existing as of the effective date of this regulation nor do they apply to existing structures when a liquid animal waste permit modification is required due to a change in ownership.

Reg. 5.404 Subsurface Investigation Requirements

The subsurface investigation for earthen holding ponds and treatment lagoons suitability and

liner requirements may consist of auger holes, dozer pits, or backhoe pits that should extend to at least two (2) feet below the planned bottom of the excavation. In those situations where this depth is not practical in the initial on-site subsurface investigation, the applicant shall provide additional subsurface investigation documentation to the Department.

Reg. 5.405 **Waste Management Plan**

- (A) The waste management plan shall be developed in accordance with Reg. 5.402 and shall address the timing of land application of wastes with respect to the nutrient uptake cycle of the vegetation found on the land application site(s) and, to the extent practicable, shall include measures to minimize off-site obnoxious and offensive odors.
- (B) All permitted facilities must have a waste management plan for the farm and a site management plan for each land application site prepared by a professional engineer registered in the state of Arkansas, the United States Department of Agriculture Natural Resource Conservation Service, the University of Arkansas Cooperative Extension Service, Certified Nutrient Management Planner, or a water quality technician of the Arkansas Natural Resources Commission and approved by the Department. The Department shall require proof of land ownership or of contractual agreements for use of the land as a land application site.
- (C) The facility waste management plan shall be reviewed annually by the operator. An updated waste management plan shall be submitted to ADEQ the Department when significant changes are made or as required by the Department. The updated waste management plan shall include the soils analysis sampled and analyzed per Reg. 5.407(C).

Reg. 5.406 **Land Application Requirements**

- (A) Waste/wastewater shall be evenly distributed over application sites at the rates specified in site management plans.
- (B) Land application of waste/wastewater shall not be undertaken when soil is saturated, frozen, covered with ice or snow, or when significant precipitation is reasonably anticipated in the next twenty-four hours.
- (C) Waste/wastewater shall not be applied on slopes with a grade of more than fifteen percent (15%) or in any manner that will allow waste to enter waters of the State or to run onto adjacent property without the written consent of the affected adjacent property owner.

- (D) Application of waste/wastewater shall not be made within 100 feet of streams including intermittent streams, ponds, lakes, springs, sinkholes, rock outcrops, wells and water supplies; or 300 feet of extraordinary resource waters as defined by the Arkansas Pollution Control and Ecology Commission Regulation No. 2. Buffer distances for streams, ponds and lakes shall be measured from the ordinary high water mark. The Department may require additional buffer distances deemed necessary to protect the waters of the state.
- (E) Application of waste/wastewater shall not be made within 50 feet of property lines or 500 feet of neighboring occupied buildings existing as of the date of the permit. The restrictions regarding property lines or neighboring occupied buildings shall not apply if the adjoining property is also approved as a land application site under a permit issued by the Department or if the adjoining property owner consents in writing.
- (F) Application of waste/wastewater shall not be made in areas where the land application of waste/wastewater is prohibited by Arkansas Department of Health regulations for the protection of public water supplies.

Reg. 5.407 Record Keeping Requirements

- (A) Records shall be kept of all waste/wastewater applied. These records shall be kept in sufficient detail to determine the application rate. A daily log shall be kept of all land applied waste/wastewater when applying. The log should include date, weight and/or volume, field identification and the acreage over which the waste/wastewater was spread. All records and logs shall be kept at the facility and provided to the Department upon request.
- (B) A representative sample of the waste/wastewater to be land applied shall be collected periodically, at a minimum of once each year, and analyzed for the following parameters: pH, Total Nitrogen, Potassium, Total Phosphorous, Soluble Phosphorous and percent solids. The Department may require more frequent testing deemed necessary to protect waters of the state.
- (C) The soils of each field where liquid animal waste has been land applied shall be sampled and analyzed at least once every five (5) years for the following parameters: pH, Potassium, Phosphorous and Nitrates. The soils analysis shall be submitted with the updated Waste Management Plan required in Reg. 5.405(C).
- (D) Unless specified otherwise, methods and timing of sampling and analysis described in this Section shall be in accordance with the University of Arkansas Cooperative Extension Service guidelines.

- (E) Annual reports for the previous calendar year shall be submitted to the Department prior to May 30 of each year which must include the following: waste/wastewater analyses conducted under Reg. 5.407(B), locations, volumes, and nitrogen application rates for the previous year; methods of application; and types of crops grown on each land application site. Reports must be submitted on forms provided by the Department.

Chapter 5 : FACILITY CONSTRUCTION CERTIFICATION

Reg. 5.501 Facility Construction Certification

The provisions of this Regulation No. 5 require all confined animal operations to be constructed in accordance with plans and specifications approved by the Department. Following completion of construction and prior to any operation commencing at the facility, certification that the facility was constructed in accordance with the approved plans and specifications must be submitted to the Department. This certification must be prepared by United States Department of Agriculture Natural Resource Conservation Service, an Arkansas Natural Resources Commission water quality technician, the University of Arkansas Cooperative Extension Service, or a Professional Engineer registered in the State of Arkansas. Authorization to operate the facility will not be issued until the certification is received by the Department.

Chapter 6 : ALTERNATIVE PERMITTING AND WASTE MANAGEMENT

Reg. 5.601 Permit for Land Application Site Only

A separate permit may be issued for a land application site if the operator submits an application which includes a site management plan for the land application site and a plan detailing nutrient application rates; the timing of waste application with respect to the nutrient uptake cycle of the vegetation found on the land application site(s); and waste storage and distribution method(s) prepared in accordance with the requirements of this regulation. The applicant for such a permit shall notify the Department of any contractual agreement for the use of the land as a land application site by submitting a copy of the agreement. Records of waste/wastewater application shall be kept as specified in Reg. 5.407 and shall include information regarding the source of the waste, including location and permit number if applicable. Sampling, analysis and annual reporting as specified in Reg. 5.407 are required.

Reg. 5.602 Composting

Waste management plans submitted in accordance with this Regulation may include composting as an alternative to land application of liquid waste. Any such plans may provide for composting at a permitted composting facility per Arkansas Pollution Control and Ecology Commission Regulation No. 22, Solid Waste Management Rules. If no such facility is referenced in the plan, it must include sufficient detail for a determination by the Department that point or nonpoint source pollution to the waters of the State will not result from the use of this alternative.

Chapter 7 : FACILITY CLOSURE

Reg. 5.701 Closure Plan Required

Should a permitted confined animal operation using a liquid waste management system cease operation, the permittee shall submit to the Department a closure plan for the liquid waste system storage/treatment structure(s) within sixty (60) days of the final day of operation for Department review and approval. Within ten (10) days of completion of closure activities, the permittee must submit certification that the facility was closed in accordance with the approved plan. The closure plan and closure certification shall be prepared by the United States Department of Agriculture Natural Resource Conservation Service, an Arkansas Natural Resources Commission water quality technician, the University of Arkansas Cooperative Extension Service or a professional engineer registered in the State of Arkansas.

Chapter 8 : ADMINISTRATIVE PROCEDURES

Reg.5.801 Penalty Policy and Administrative Procedures

Arkansas Pollution Control and Ecology Commission Regulation No. 7, Civil Penalties, and Regulation No. 8: Administrative Procedures, apply to this Regulation.

Reg.5.802 Severability

If any provision of this Regulation or the application thereof to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications of this Regulation which can be given effect with the invalid provision or application, and, to this end, provisions of this Regulation are declared to be severable.

Chapter 9 : EFFECTIVE DATE

Reg. 5.901 Effective Date

This regulation is effective ten (10) days after filing with the Secretary of State, the State Library and the Bureau of Legislative Research.

ARKANSAS POLLUTION CONTROL AND ECOLOGY COMMISSION



REGULATION NO. 6

REGULATIONS FOR STATE ADMINISTRATION OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

Approved by Arkansas Pollution Control and Ecology Commission: May 24, 2012

REGULATION NO. 6
REGULATIONS FOR STATE ADMINISTRATION OF THE NATIONAL
POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

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CHAPTER ONE: GENERAL PROVISIONS

Reg.6.101 Adoption

Pursuant to the provisions of the Arkansas Water and Air Pollution Control Act, Ark. Code Ann. § 8-4-101 *et seq.*, the Arkansas Pollution Control and Ecology Commission hereby promulgates this regulation to implement State administration of the National Pollutant Discharge Elimination System.

Reg.6.102 Purpose

It is the purpose of this regulation to adopt regulations necessary to qualify the State of Arkansas to receive authorization to implement the State water pollution control permitting program, in lieu of the federal National Pollutant Discharge Elimination System program, pursuant to the Clean Water Act, 33 U.S.C. § 1342. In order to receive such authorization, it is necessary for the Arkansas Department of Environmental Quality to have regulations as stringent as the federal program administered by the United States Environmental Protection Agency.

Reg.6.103 Definitions

- (A) The definitions set forth in 40 CFR 122.2 and 124.2 are all adopted herein by reference in Reg.6.104.
- (B) In addition, the following definitions also apply to this Regulation:

“Act” means the Arkansas Water and Air Pollution Control Act, Ark. Code Ann. § 8-4-101 *et seq.*)

“Department” means the Arkansas Department of Environmental Quality, or its successor.

“Commission” means the Arkansas Pollution Control and Ecology Commission.

“Director” means the Director of the Arkansas Department of Environmental Quality, unless the context dictates otherwise. (See 40 C.F.R. §§ 122.2, and 124.2, and Ark. Code Ann. § 8-1-202 *et seq.*)

“Larger Common Plan of Development” means a contiguous (sharing a boundary or edge, adjacent, or touching) area where multiple and distinct construction activities may be taking place at different times on different schedules under one plan. Such a plan might consist of many small projects (e.g., a common plan of development for a residential subdivision might lay out the streets, house lots, and areas for parks, schools and commercial development that the developer plans to build or sell to others for development.) All these areas would remain part of the common plan of development or sale. The term “plan” is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, zoning request, computer design, etc.) or physical

demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating construction activities may occur on a specific plot.

“Non-municipal domestic sewage treatment works” means a device or system operated by an entity other than a city, town, borough, county, or sewer improvement district that treats, in whole or in part, waste or wastewater from humans or household operations and must continuously operate to protect human health and the environment despite a permittee's failure to maintain or operate the treatment works.

“Operator” means any person (an individual, association, partnership, corporation, municipality, state or federal agency) who has the primary management and ultimate decision-making responsibility over the operation of a facility or activity. The operator is responsible for ensuring compliance with all applicable environmental regulations and conditions.

“Small Construction Site” means construction activities including clearing, grading, and excavating that result in land disturbance of equal to or greater than one acre and less than five acres. Small construction activity also includes the disturbance of less than one acre of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than one and less than five acres. Small construction activity does not include routine maintenance.

“Stormwater” means runoff from rainfall, snow melt runoff, and surface runoff and drainage.

“Stormwater Pollution Prevention Plan” means a plan that describes the measures and practices used to control the discharge of pollutants through stormwater discharges.

Reg.6.104 Incorporation of the latest Federal Regulations

(A) The following regulations promulgated by the U.S. Environmental Protection Agency are hereby adopted as provisions of this Regulation as though set forth herein line for line and word for word of the most current version of the Code of Federal Regulations with the exception that, and unless the context otherwise dictates, all references therein to "Administrator," "Regional Administrator," "Director" or "State Director" shall be considered references to the "Director of the Arkansas Department of Environmental Quality", and all references to the "U.S. Environmental Protection Agency" or "EPA" shall be considered references to the "Arkansas Department of Environmental Quality"; and all references elsewhere in this Regulation to any of the following regulations shall constitute a reference to the regulation as herein adopted; and provided that the effective date of provisions adopted herein by reference as provisions of this Regulation shall be the date such provisions are specified as being effective by the Commission in its rulemaking and the effective date of the federal regulations adopted herein shall have no bearing on the effective date of any provisions of this Regulation:

Title 40 Code of Federal Regulations adopted verbatim by ADEQ -

(1) Part 116;

- (2) Part 117;
- (3) Subparts A, B, C and D of Part 122 with the following exceptions: 122.6 (for analogous provision, see Reg. 7); 122.7(a); 122.21(l); 122.29(c) and (d); and 122.49;
- (4) The following provisions, only, of Part 123: 123.25(b), 123.26(d), 123.27(d), 123.41(a), and 123.62(e);
- (5) The following provisions, only, of Part 124: 124.2; 124.3(a); 124.5(a), (c), (d) and (f); 124.6(a), (c), (d), (e); 124.7; 124.8; 124.10(a)(1)(ii), (iii) and (v); 124.10(b), (c), (d) and (e); 124.11; 124.12(a), (b), (c) and (d); 124.13; 124.14; 124.17(a) and (c); 124.19; 124.56; 124.57(a); 124.59; and 124.62;
- (6) Subparts A, B, C, D, H, I, J, K, and L, only, of Part 125;
- (7) Part 129;
- (8) Part 133;
- (9) Part 136;
- (10) Part 257;
- (11) Parts 400 through 471 with the following exceptions: 401.17.

All as adopted as final rules (including "interim final rules" and "technical amendments") by the United States Environmental Protection Agency on or before October 28, 2011.

- (B) The Director, within 180 days after the date of promulgation of any new or revised federal National Pollutant Discharge Elimination System regulations, shall conduct rulemaking procedures with reference to this Regulation necessary to maintain a state National Pollutant Discharge Elimination System program as stringent as the federal program. Such new or revised federal regulations, upon their publication as final rules by Environmental Protection Agency, shall constitute minimum guidelines to the Director in formulating rulemaking proposals to this regulation but shall not be construed to limit or interfere with the adoption of provisions more stringent than federal regulations.

Reg.6.105 Confidentiality

In addition to the provisions of 40 CFR 122.7(b) and (c), which are adopted by reference in Reg. 6.104, the following provisions apply:

- (A) Any information submitted to the Department may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission in accordance with the provisions of this section. If no claim is made at the time of submission, the Department

may make the information available to the public without further notice. If a claim is asserted, the Director will make a determination of whether the material, if made public, would divulge trade secrets entitled to protection.

- (B) It shall be the responsibility of the person claiming any information as confidential under the provisions of subsection (A) above to clearly make each page containing such information with the words "CONFIDENTIAL" and to submit an affidavit setting forth the reasons that said person believes that such information is entitled to protection as a trade secret.
- (C) Any document submitted to the Department which contains information for which the claim of confidential information is made shall be submitted in a sealed envelope marked "CONFIDENTIAL" and addressed to the Director. The document shall be submitted in two separate parts. The first part shall contain all information which is not deemed by the submitter as confidential and shall include appropriate cross -references to the second part which contains data, words, phrases, paragraphs or pages and appropriate affidavits containing or relating to information which is claimed to be confidential.
- (D) No information shall be protected as confidential information by the Director unless it is submitted to him in accordance with the provisions of subsections (B) and -(C) above. No information shall be afforded protection as confidential information unless the Director finds that such protection is necessary to protect trade secrets and that such protection will not hide from public view the characteristics of waste materials and probable effects of the introduction of such waste or by-products into the environment. The person who submits information claimed as confidential shall receive written notice from the Director as to whether the information has been accepted as confidential or not.
- (E) All information which the Director determines is entitled to protection shall be marked with the term "ACCEPTED" and shall be protected as confidential information. Whenever the Director finds that information which has been submitted does not meet the criteria of subsection (D) above, he shall promptly notify the person submitting such information of his finding and shall give that person reasonable opportunity to further justify his contention that the information deserves protection as a trade secret or to further limit the scope of information for which the request for protection is made. If said person fails to satisfactorily demonstrate to the Director that such information in the form presented to him meets the criteria of subsection (D) above, the Director shall mark the information "REJECTED" and promptly return such information to the person submitting such information. Such person shall have 30 days to resubmit the information in acceptable form or request review of the decision of the Director in accordance with Chapter 6 of Regulation No. 8.
- (F) All information which is accepted by the Director as confidential shall be stored in locked filing cabinets and only those personnel of the Department specifically designated by the Director shall have access to the information contained therein. The Director shall not designate any persons to have access to confidential information unless the person requires such access in order to carry out his responsibilities and duties. No person shall disclose any confidential information except in accordance with the provisions of this section.

- (G) NPDES permits and permit applications and all information contained in them are required by 40 CFR 122.7 to be publicly available. No claim of confidentiality will be accepted hereunder for such material. Consequently, applications containing confidential information will be returned to the applicant.

Reg.6.106 Violations

Violation of any of the following prohibitions shall be considered a violation of this regulation and shall be subject to the penalties provided in the Arkansas Water and Air Pollution Control Act, Ark. Code Ann. § 8-4-103:

- (A) No person shall construct, install, alter, modify or operate any disposal system or any part thereof or any extension or addition thereto that will discharge into any of the waters of the State without first having obtained a permit from the Department for such activity.
- (B) No person shall increase in volume or strength any sewage, industrial waste or other wastes in excess of the permitted discharges specified under any existing permit.
- (C) No person shall construct, install or operate any building plant, works, establishment or facility or any extension or modification thereto, the operation of which would result in discharge of any wastes into the waters of the State or would otherwise alter the physical, chemical, or biological properties of any waters of the State in any manner not already lawfully authorized.
- (D) No person shall construct or use any new outlet for the discharge of any wastes into the waters of the State without having first obtained a permit for such activity from the Department.
- (E) No person shall discharge sewage, industrial wastes or other wastes into any of the waters of the State without having first obtained a permit for such activity from the Department.
- (F) No person shall violate any other provision of this regulation or the Act.

CHAPTER TWO: PERMIT PROCEDURES

Reg.6.201 Status and Continuation of Permits

Conditions of a National Pollutant Discharge Elimination System permit issued by the Arkansas Department of Environmental Quality will continue in effect past the expiration date pending issuance of a new permit, if:

- (1) The permittee has submitted a timely and complete application as described in 40 CFR 122.21; and
- (2) The Director, through no fault of the permittee, does not issue a new permit prior to the expiration date of the previous permit.

Reg.6.202 Application Requirements for Construction and Operation of Wastewater Facilities

- (A) Any person who desires to construct, operate or modify any disposal system which will discharge to the waters of the State or to discharge any sewage, industrial waste or other wastes into the waters of the State or to do any other act for which Ark. Code Ann. § 8-4-217(b) requires a permit shall submit an application for a permit for such activity. In addition to the permit application procedures set forth in 40 CFR Parts 122, 123, and 124, that are incorporated by reference in Reg. 6.104, hereof, the applicant must also submit Arkansas Department of Environmental Quality Form 1. The application must be submitted, approved, along with the approval letter from Arkansas Department of Health for domestic discharges and a permit issued and effective before the activity applied for can begin.
- (B) A state permit for construction or modification of a wastewater treatment facility does not constitute an National Pollutant Discharge Elimination System permit. Issuance of a state permit for construction or modification of a treatment system in no way guarantees or assumes that an application for an National Pollutant Discharge Elimination System permit to operate the system will be approved or the National Pollutant Discharge Elimination System permit issued, nor does issuance of an National Pollutant Discharge Elimination System permit assume or require a prior permit for construction or a satisfactory review of the design or construction of the treatment facility. Arkansas Department of Environmental Quality Form 1 plans and specifications, and design calculations are required for a state construction permit. Plans and specifications and design calculations must be stamped and signed by a Registered Professional Engineer in the State of Arkansas. The basic design criteria for wastewater treatment plants in the State of Arkansas should be based on the latest addition of the "Recommended Standards for Sewage Works," published by the Great Lakes-Upper Mississippi Board of State Sanitary Engineers known as 10 States Standards, with the following modifications. Exception to these criteria will only be approved by the Department when fully justified.

The following exceptions to 10 States Standards, as provisions adopted through Arkansas

Pollution Control and Ecology Commission Minute Order 80-21, are allowed:

Combined Sewer Interceptors

- Combined sewers will not be approved

(1) Biological Treatment

Waste Sludge Facilities

Activated sludge treatment plant of 10,000 gallons per day or more capacity shall be provided with an aerated waste sludge holding tank or other sludge disposal facility.

(2) Disinfection

Disinfection shall be required when necessary to meet the State's water quality standards for the receiving stream or to protect public water supplies and recreational use areas.

(3) Wastewater Treatment Ponds (Lagoons)

Basis of Design

The maximum design loading rate for the primary cell(s) will be thirty (30) pounds of BOD5 per acre per day, with a minimum surface area of one (1) acre.

Multiple Units

- a. Two cell systems must be followed by sand or rock filtration, or other solids removal devices.

The second cell of a two-cell system will be designed on the same biological loading rate as a primary cell, with at least thirty (30) days detention time.

- b. For three (or more) cell systems, the cells following the primary will have a combined detention time of at least thirty (30) days. The final cell shall be designed to facilitate solids reduction and minimize algae growth.

(4) Control Structures and Interconnecting Piping

Control structures shall be provided for interconnecting cell piping and for final cell effluent flow. The structures shall have the ability to vary the water depth in each cell a range of, at least, twenty-four (24) inches. Non-corrosive stop-logs, slide gates, or slide tubes are the devices that shall be utilized to regulate the wastes level. A baffle of the same type of material as the control devices shall extend a minimum of six (6) inches below the low-water surface.

(5) Appendix – Ground Disposal of Wastewaters

Land treatment of wastewater shall be in accordance with the Land Application Guidelines as promulgated by this department and the Arkansas Department of Health.

- (C) At the discretion of the Director, the provisions of Reg.6.202(B) may not apply to minor revision to the existing treatment system, routine repair, replacement (i.e. aerator) or maintenance.
- (D) Prior to obtaining a construction permit for domestic wastewater discharges from ADEQ, an approval letter from Arkansas Department of Health is required.

All information supplied to this Department shall be available for public inspection unless the information constitutes a trade secret and a claim of confidentiality is submitted in accordance with the procedures specified in Reg.6.105 above.

Reg.6.203 Permitting Requirements for stormwater discharge associated with a Small Construction Site

Operators of a small construction sites shall be deemed to have a permit by rule for the purposes of the federal Clean Water Act, 33 U.S.C. § 1342, and the Arkansas Water and Air Pollution Control Act, Ark. Code Ann. § 8-4-101 *et seq.*, if the following conditions are met:

- (A) A completed Notice of Coverage must be posted at the site for automatic permit coverage prior to commencing construction; and
- (B) A Stormwater Pollution Prevention Plan must be prepared in accordance with good engineering practices as follows:
 - (1) Identify potential, site-specific sources of pollution which may reasonably be expected to affect the quality of stormwater discharges from the construction;
 - (2) Identify, describe and ensure the implementation of site-specific Best Management Practices, with emphasis on initial site stabilization, which are to be used to reduce pollutants in stormwater discharges from the construction site;
 - (3) Identify the responsible party for on-site Stormwater Pollution Prevention Plan implementation;
 - (4) Develop a legible site map (or multiple maps, if necessary) complete to scale, showing the entire site, that identifies, at a minimum, the following:
 - a. Pre-construction topographic view;
 - b. Direction of stormwater flow (i.e., use arrows to show which direction stormwater will flow) and approximate slopes anticipated after grading activities;

- c. Delineate on the site map areas of soil disturbance and areas that will not be disturbed;
- d. Location of major structural and nonstructural controls identified in the plan;
- e. Location of main construction entrance and exit;
- f. Location where stabilization practices are expected to occur;
- g. Locations of off-site materials, waste, borrow area, or equipment storage area;
- h. Location of areas used for concrete wash-out;
- i. Location of all surface water bodies (including wetlands);
- j. Locations where stormwater is discharged to a surface water and/or municipal separate storm sewer system if applicable,
- k. Locations where stormwater is discharged off-site (should be continuously updated);
- l. Location of areas where final stabilization has been accomplished and no further construction phase permit requirements apply.

Reg.6.204 Permitting Requirements for Industrial Users of Publicly Owned Treatment Works

- (A) Industrial users discharging to publicly owned treatment works shall be deemed to have a permit by rule for construction and discharge for the purposes of the Arkansas Water and Air Pollution Control Act, Ark. Code Ann. § 8-2-101 *et seq.*, if either of the following conditions are met:
- (1) The industrial user is discharging into a receiving publicly owned treatment works with an approved local pretreatment program; or
 - (2) The industrial user is not subject to categorical pretreatment standards set forth in 40 CFR Parts 400-471 (Subchapter N) and not likely to introduce pollutants to the publicly owned treatment works which would pass through or interfere with the treatment works or which would contaminate the sewage sludge of the treatment works.

An "approved pretreatment program" means a program approved by either the U.S. Environmental Protection Agency pursuant to 40 CFR Part 403.11 or the Department pursuant to 40 CFR Part 403.11, as incorporated in Reg. 6.102. The determination of which industrial users are likely to introduce pollutants which would pass through or interfere with a publicly owned treatment works or which are likely to contaminate sewage sludge from the treatment works shall be made by the

Director subject to the provisions of Regulation No. 8 and Ark. Code Ann. § 8-4-216.

- (B) With the exception of industrial users qualifying for a permit-by-rule pursuant to subsection (A) above, all industrial users discharging or proposing to discharge to publicly owned treatment works shall obtain a permit hereunder in accordance with Reg.6.202 prior to construction or modification of the disposal system, and a permit prior to discharge in accordance with the requirements incorporated in Reg.6.102 and the other applicable provisions of this Regulation.

Reg.6.205 Financial Assurance Permitting Requirements

- (A) The Department shall not issue, modify, or renew a National Pollutant Discharge Elimination System permit for a non-municipal domestic sewage treatment works without the permit applicant first demonstrating to the Department its financial ability to cover the estimated costs of operating and maintaining the non-municipal domestic sewage treatment works for a minimum period of five (5) years.
- (B) State or federal facilities, schools, universities, and colleges are specifically exempted from the requirements of this section.
- (C) Each permit application for a non-municipal domestic sewage treatment works submitted under this section shall be accompanied by a cost estimate for a third party to operate and maintain the non-municipal domestic sewage treatment works each year for a period of five (5) years.
- (D) The department shall not issue or modify a National Pollutant Discharge Elimination System permit for a non-municipal domestic sewage treatment works that proposes to use a new technology that, in the discretion of the Department, cannot be verified to meet permit requirements without the applicant first demonstrating its financial ability to replace the new technology with a non-municipal domestic sewage treatment works that uses technology acceptable to the Department.
- (E) Each permit application for a non-municipal domestic sewage treatment works that proposes to use a new technology that, in the discretion of the Department, cannot be verified to meet permit requirements shall be accompanied by a cost estimate to replace the proposed system with a non-municipal domestic sewage treatment works that uses technology acceptable to the Department.
- (F) The applicant's financial ability to operate and maintain the non-municipal domestic sewage treatment works for a period of five (5) years shall be demonstrated to the Department by:
 - (1) Obtaining insurance that specifically covers operation and maintenance costs;
 - (2) Obtaining a letter of credit;
 - (3) Obtaining a surety bond;

- (4) Obtaining a trust fund or an escrow account; or
 - (5) Using a combination of insurance, letter of credit, surety bond, trust fund, or escrow account.
- (G) The Department may reduce or waive the amount of the required financial assurance if the permit applicant can demonstrate to the Department's satisfaction that:
- (1) For a renewal permit, during the five (5) years preceding the application for a renewal permit, the non-municipal domestic sewage treatment works facility has:
 - (1) Remained in continuous operation;
 - (2) Received no more than three (3) permit violations within a six-month period, as set out in the permit issued by the Department;
 - (3) Maintained the services of a certified wastewater treatment operator, where applicable;
 - (4) Remained financially solvent; and
 - (5) Operated the facility's non-municipal domestic sewage treatment works to prevent the discharge of waterborne pollutants in unacceptable concentrations to the surface waters or groundwater of the State as defined in the permit or as defined in the State's water quality standards; or
 - (2) For a new permit, that the reduction or waiver is necessary to accommodate important economic or social development in the area of the proposed non-municipal domestic sewage treatment works facility and that the applicant has shown a history of financial responsibility and compliance with regulatory requirements in other relevant ventures.
- (H) The Department has discretion to withdraw a reduction or waiver granted under this subsection at any time in order to protect human health or the environment.
- (I) A financial instrument required by this section shall be posted to the benefit of the Department and shall remain in effect for the life of the permit.
- (J) It is explicitly understood that the Department shall not directly operate and shall not be responsible for the operation of any non-municipal domestic sewage treatment works.

CHAPTER THREE: LOSING STREAM SEGMENTS

Reg.6.301 Effluent Discharges to Losing Stream Segments

- (A) In addition to all applicable effluent standards and conditions required by State and federal laws and regulations, wastewater discharged to losing stream segments shall comply with subsections (B) through (E) below.
- (B) For purposes of this regulation, a "losing stream segment" is defined as a stream segment which, beginning at the point of existing or proposed discharge and extending two (2) miles downstream, distributes thirty percent (30%) or more of its flow at a 7Q10 flow or one (1) cfs, whichever is greater, through natural processes such as permeable subsoil or cavernous bedrock into an aquifer.
- (C) Effluent Limitations for Discharges into Losing Stream Segments:
 - (1) Discharges to losing stream segments shall be permitted only after other alternatives including (a) land application of wastewater, (b) discharge to non-losing stream segment, and (c) connection to a regional wastewater treatment facility, have been evaluated and determined to be unacceptable for environmental and/or economic reasons.
 - (2) If the Department agrees to allow a discharge to a losing stream segment, the permit will be written using the limitations described below, as a minimum. Discharges from wastewater treatment facilities, which receive primarily domestic waste, or from publicly owned treatment works (POTWs) shall undergo treatment sufficient to conform to the following limitations:
 - (a) CBOD₅ equal to or less than a monthly average of ten (10) mg/1 and a seven (7) day average of fifteen (15) mg/1.
 - (b) Total Suspended Solids (TSS) equal to or less than a monthly average of fifteen (15) mg/1 and a seven (7) day average of twenty-three (23) mg/1;
 - (c) Provisions of 40 CFR 133.102(c);
 - (d) The fecal coliform content of discharges shall not exceed a monthly average of 200 colonies per 100 milliliters and a weekly average of 400 colonies per 100 milliliters. However, at no time shall the fecal coliform content exceed 200 colonies per 100 milliliters in any water defined as an Extraordinary Resource Water or Natural and Scenic Waterway;
 - (e) Nitrate plus nitrite nitrogen levels shall not exceed ten (10) mg/1;
 - (f) Ammonia (as N) limitations shall be included as necessary to prevent ammonia toxicity in-stream and/or to maintain instream dissolved oxygen.

(g) Other parameters as deemed appropriate by the Department.

(D) Implementation of Losing Stream Regulation

- (1) Existing discharges. At the time of permit renewal, or when deemed necessary by the Department, National Pollutant Discharge Elimination System permittees discharging to stream segments which may be losing stream segments, as defined above, shall submit documentation as part of the renewal permit application, showing that the segment is or is not a losing stream segment. If the discharge is into a losing stream segment, then the facility must be capable of meeting the effluent limitations described above, as a minimum.
- (2) New discharges. New facilities proposing to discharge to a stream which may be a losing stream segment shall submit documentation as part of the initial National Pollutant Discharge Elimination System permit application demonstrating that the segment is or is not a losing stream segment. This documentation includes, but is not limited to, stream studies or other data, showing the stream segment does or does not meet the criteria in Reg.6.301(B) above. If the proposed discharge is into a losing stream segment, then the facility must be designed and operated to meet the effluent limitations described above, as a minimum.
- (3) For facilities in both Reg.6.301(D)(1) and (2) above, stream studies for determining classification as a losing stream segment must be conducted during the critical low flow season, when stream flow is at least 1 cfs and representative of seasonal flow. Effluent flow, when existing, can be included in the minimum 1 cfs stream flow.
- (4) The Department shall determine the requirement for, and the content and level of detail of, stream studies, based on local topography, geological data, file data, other dischargers in area, stream flow, etc.

(E) Review of Applications by Arkansas Department of Health for Discharges of Domestic Effluents.

- (1) Nothing in this regulation limits the authority of the Arkansas Department of Health to include additional requirements as a prerequisite to its approval of the treatment/disposal system.

CHAPTER FOUR: WASTEWATER DISCHARGES

Reg.6.401 Determination of Domestic Wastewater Effluent Limitations

- (A) Small discharges (less than or equal to 0.05 MGD)
- (1) The most stringent effluent limitations for oxygen demanding flows from small dischargers will be 10/15 (CBOD₅/TSS), with nutrient removal where appropriate, which is considered as Best Conventional Treatment (BCT) for dischargers in this flow range.
 - (2) On a case-by-case basis, less stringent effluent limitations may be permitted if stream modeling shows that water quality standards will be maintained.
- (B) Outstanding State Resource Waters
- Outstanding State Resource Waters include all water bodies designated in the Arkansas Water Quality Standards (Regulation No. 2) as Extraordinary Resource Waters, Natural and Scenic Waterways, or Ecologically Sensitive Waterbodies.
- (1) For Extraordinary Resource Waters and Natural and Scenic Waterways: In no event shall the effluent limitations be greater than 10/15 (CBOD₅/TSS).
 - (2) For Ecologically Sensitive Waterbodies: Limitations shall be determined on a case-by-case basis to protect the specific species in the waterbody.
- (C) Reservoirs/Domestic Water Supply
- (1) In all cases, applicable water quality standards shall be met.
 - (2) All oxygen demanding effluent flows which are discharged into any lake shall have effluent limitations of 10/15 (CBOD₅/TSS) with nutrient removal as appropriate.
- (D) Discharge of Domestic Wastewater to the Illinois River Basin
- (1) No permit for discharge of domestic wastewater into the Illinois River or its tributaries by the cities of Fayetteville, Springdale, Rogers, and Siloam Springs, shall authorize more than 1.0 mg/l Total Phosphorus based on a monthly average.
 - (2) Compliance with (D)(1) of this section shall be attained as soon as feasible, but no later than January 1, 2012.
- (E) Discharge of Domestic Wastewater to the Osage Creek Basin, a tributary of the Kings River
- (1) No permit for discharge of domestic wastewater into Osage Creek or its tributaries, by the City of Berryville, shall authorize more than 1.0 mg/l Total Phosphorus based

on a monthly average.

- (2) Compliance with (E)(1) of this section shall be attained as soon as feasible, but no later than January 1, 2012.

(F) Discharge of Domestic Wastewater to Little Sugar Creek Basin

- (1) No permit for discharge of domestic wastewater into Little Sugar Creek or its tributaries by the City of Bentonville shall authorize more than 1.0 mg/l Total Phosphorus based on a monthly average.
- (2) Compliance with (F)(1) of this section shall be attained as soon as feasible, but no later than January 1, 2012.

(G) Discharge of Domestic Wastewater to Spavinaw Creek Basin

- (1) No permit for discharge of domestic wastewater into Spavinaw Creek or its tributaries by the City of Decatur shall authorize more than 1.0 mg/l Total Phosphorus based on a monthly average.
- (2) Compliance with (G)(1) of this section shall be attained as soon as feasible, but no later than January 1, 2012.

Reg.6.402 Discharge of Treated Wastewater to the Ouachita River

No permit for the discharge of treated wastewater into the Ouachita River commencing at or downstream of the H.K. Thatcher Lock and Dam in segment 2D of the Ouachita River Basin shall authorize a total phosphorous limit in excess of the following:

- (A) A proposed permit with a design flow of less than or equal to 13.5 MGD shall have a total phosphorous mass limit calculated using a total phosphorous concentration of 1.0 mg/l year-round.
- (B) A proposed permit with a design flow greater than 13.5 MGD but less than 20.0 MGD shall have a total phosphorous mass limit calculated using a total phosphorous concentration of 1.0 mg/l for the months of November through June and 0.7 mg/l total phosphorus for the months of July through October.
- (C) The above mass calculations are considered to be on a monthly average basis. A daily maximum mass limit, if applicable, will be 1.5 to 2.0 times the monthly average mass limit.
- (D) At the director's discretion, the permit may include concentration limits in addition to the mass limit(s).

CHAPTER FIVE: (RESERVED)

CHAPTER SIX: ADMINISTRATIVE PROCEDURES

Reg.6.601 Penalty Policy and Administrative Procedures

Arkansas Pollution Control and Ecology Commission Regulation No. 7, Civil Penalties, and Regulation No. 8, Administrative Procedures, apply to this Regulation.

Reg.6.602 Severability

If any provision of this regulation or the application thereof to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications of this regulation which can be given effect with the invalid provision or application, and, to this end, provisions of this regulation are declared to be severable.

CHAPTER SEVEN: EFFECTIVE DATE

Reg.6.701 Effective Date

This regulation is effective ten (10) days after filing with the Secretary of State, the State Library, and the Bureau of Legislative Research.