

Rule Summary and Fiscal Analysis (Part A)**Department of Agriculture**

Agency Name

Livestock Environmental Permitting

Division

David E Miran

Contact

**8995 East Main Street Reynoldsburg OH
43068-0000**

Agency Mailing Address (Plus Zip)

614-728-6390

Phone

Fax

david.miran@agri.ohio.gov

Email

901:10-2-03

Rule Number

AMENDMENT

TYPE of rule filing

Rule Title/Tag Line

Geological explorations.**RULE SUMMARY**1. Is the rule being filed for five year review (FYR)? **Yes**2. Are you proposing this rule as a result of recent legislation? **No**3. Statute prescribing the procedure in accordance with the agency is required to adopt the rule: **119.03**4. Statute(s) authorizing agency to adopt the rule: **903.08, 903.10**5. Statute(s) the rule, as filed, amplifies or implements: **903.01, 903.02, 903.03, 903.04, 903.08, 903.082, 903.09, 903.10**

6. State the reason(s) for proposing (i.e., why are you filing,) this rule:

The rules in this package are being filed in accordance with the five year rule review process.

7. If the rule is an AMENDMENT, then summarize the changes and the content of the proposed rule; If the rule type is RESCISSION, NEW or NO CHANGE, then summarize the content of the rule:

OAC 901:10-2-03 sets forth standards for geological subsurface explorations required under this chapter. Specifically, the rule requires that these subsurface tests be completed to evaluate the suitability of the soil and ground strength in supporting both fabricated structures and manure lagoons/ponds. The rule is being amended to comply with formatting standards as determined by the Legislative Services Commission. Additionally, other formatting changes have been made to help with reader comprehension. Finally, in accordance with House Bill 64 in the 131st General Assembly, the division of soil and water was transferred from the Ohio Department of Natural Resources to the Ohio Department of Agriculture. The rule has been amended to remove references to the former division. No substantive changes have been made to this rule.

8. If the rule incorporates a text or other material by reference and the agency claims the incorporation by reference is exempt from compliance with sections 121.71 to 121.74 of the Revised Code because the text or other material is **generally available** to persons who reasonably can be expected to be affected by the rule, provide an explanation of how the text or other material is generally available to those persons:

This rule incorporates Ohio Revised Code and/or Federal Code sections in the rule which are exempted from the incorporation by reference standards in section 121.75 of the Revised Code.

9. If the rule incorporates a text or other material by reference, and it was **infeasible** for the agency to file the text or other material electronically, provide an explanation of why filing the text or other material electronically was infeasible:

Not applicable.

10. If the rule is being **rescinded** and incorporates a text or other material by reference, and it was **infeasible** for the agency to file the text or other material, provide an explanation of why filing the text or other material was infeasible:

Not Applicable.

11. If **revising** or **refiling** this rule, identify changes made from the previously filed version of this rule; if none, please state so. If applicable, indicate each specific paragraph of the rule that has been modified:

Not Applicable.

12. Five Year Review (FYR) Date: 2/17/2017

(If the rule is not exempt and you answered NO to question No. 1, provide the scheduled review date. If you answered YES to No. 1, the review date for this rule is the filing date.)

NOTE: If the rule is not exempt at the time of final filing, two dates are required: the current review date plus a date not to exceed 5 years from the effective date for Amended rules or a date not to exceed 5 years from the review date for No Change rules.

FISCAL ANALYSIS

13. Estimate the total amount by which *this proposed rule* would **increase / decrease** either **revenues / expenditures** for the agency during the current biennium (in dollars): Explain the net impact of the proposed changes to the budget of your agency/department.

This will have no impact on revenues or expenditures.

\$0.00

Not applicable.

14. Identify the appropriation (by line item etc.) that authorizes each expenditure necessitated by the proposed rule:

Not applicable.

15. Provide a summary of the estimated cost of compliance with the rule to all directly affected persons. When appropriate, please include the source for your information/estimated costs, e.g. industry, CFR, internal/agency:

Each CAFO/CAFF must obtain either a permit to install, or a permit to operate, and other permits depending on the location and size of the facility. The fees for these permits can be found in OAC 10-1-04 and vary from \$500 to \$2,250. All manure storage structures at the applicant's property must be built in compliance with the standards set forth in rule. The Department's engineers and inspectors review and inspect these facilities to ensure compliance. In addition, depending on the location of the facility the applicant may need to conduct water testing in order to determine the ground water quality characteristics. These tests are done to determine the soil and water characteristics of the site in order to provide the applicant the information necessary to most efficiently plan the facility's manure storage locations and operations. The cost of the plans required by these rules varies widely based on the location of the facility, the size of the facility, and if an independent contractor is

selected to complete these plans.

16. Does this rule have a fiscal effect on school districts, counties, townships, or municipal corporations? **No**

17. Does this rule deal with environmental protection or contain a component dealing with environmental protection as defined in R. C. 121.39? **Yes**

You must complete the Environmental rule Adoption/Amendment Form in order to comply with Am. Sub. 106 of the 121st General Assembly.

S.B. 2 (129th General Assembly) Questions

18. Has this rule been filed with the Common Sense Initiative Office pursuant to R.C. 121.82? **Yes**

19. Specific to this rule, answer the following:

A.) Does this rule require a license, permit, or any other prior authorization to engage in or operate a line of business? **Yes**

Each CAFO/CAFF must obtain either a permit to install, or a permit to operate, and other permits depending on the location and size of the facility.

B.) Does this rule impose a criminal penalty, a civil penalty, or another sanction, or create a cause of action, for failure to comply with its terms? **Yes**

Failure to comply with the rules may subject permit holders to fines or other enforcement actions. Additionally, failure to obtain a permit may be subject to heavy civil penalties and possible criminal actions.

C.) Does this rule require specific expenditures or the report of information as a condition of compliance? **Yes**

OAC 901:10-2-03 sets forth standards for geological subsurface explorations required under this chapter. This geological report must be submitted to the Department with a permit application.

Page E-1

Rule Number: 901:10-2-03

Environmental Rule Adoption/Amendment Form

Pursuant to Am. Sub. H.B. 106 of the 121st General Assembly, prior to adopting a rule or an amendment to a rule dealing with environmental protection, or containing a component dealing with environmental protection, a state agency shall:

- (1) Consult with organizations that represent political subdivisions, environmental interests, business interests, and other persons affected by the proposed rule or amendment.
 - (2) Consider documentation relevant to the need for, the environmental benefits or consequences of, other benefits of, and the technological feasibility of the proposed rule or rule amendment.
 - (3) Specifically identify whether the proposed rule or rule amendment is being adopted or amended to enable the state to obtain or maintain approval to administer and enforce a federal environmental law or to participate in a federal environmental program, whether the proposed rule or rule amendment is more stringent than its federal counterpart, and, if the proposed rule or rule amendment is more stringent, the rationale for not incorporating its federal counterpart.
 - (4) Include with the proposed rule or rule amendment and rule summary and fiscal analysis required to be filed with the Joint Committee on Agency Rule Review information relevant to the previously listed requirements.
-

(A) Were organizations that represent political subdivisions, environmental interests, business interests, and other persons affected by the proposed rule or amendment consulted ? **Yes**

Please list each contact.

Carl Link # Ohio Pork Producers Council

Matt Andreas # Ohio Dairy Producers Association

Glen Feichtner # Ohio Cattlemen's Association

Tom Herzfeld, Jr. # Ohio Poultry Association

Roger High # Ohio Sheep Improvement Association

Michael Mull, DVM # Ohio Veterinary Medical Association

Tony Anderson # Ohio County Commissioners Association of Ohio

Eric Dresbach # Ohio Water Environment Association

Jason Menchhofer # Ohio Environmental Health Association

Dick Lorenz # Water Management Association of Ohio

Adam Rissien # Ohio Environmental Council

Karen Chapman # Environmental Defense Fund

Vince Messerly # Public Representative

Russell Ludwig # Public Representative

Jack Rohrbach # Public Representative

Jim Raab # Ohio Department of Natural Resources

Rick Wilson # Ohio EPA

Maurice Eastridge, PhD # The Ohio State University

Kevin Elder # Ohio Department of Agriculture

(B) Was documentation that is relevant to the need for, the environmental benefits or consequences of, other benefits of, and the technological feasibility of the proposed rule or amendment considered ? **Yes**

Please list the information provided and attach a copy of each piece of documentation to this form. (A SUMMARY OR INDEX MAY BE ATTACHED IN LIEU OF THE ACTUAL DOCUMENTATION.)

APHA (1992) Standard methods for examination of water and wastewater (18th edition). New York, NY.

American Concrete Institute. 2010. 360R. Design of Slabs on Grade. Farmington Hills, MI.

American Concrete Institute. 2008. 318. Building Code Requirements for Structural Concrete. Farmington Hills, MI.

American Concrete Institute. 2005. 530. Building Code Requirements for Masonry Structures. Farmington Hills, MI.

American Society of Agricultural Engineers (2007). Standards Engineering Practices Data. EP379.4 Management of Manure Odors. St. Joseph, MI.

American Society of Agricultural Engineers Standards (2004). Standards Engineering Practices Data. EP378.3 Floor and Suspended Loads on Agricultural Structures Due to Use. St. Joseph, MI.

American Society of Agricultural Engineers Standards (2004). Standards Engineering Practices Data. EP393.3 Manure Storages. St. Joseph, MI.

American Society of Civil Engineers Standard 7 (2010). Minimum Design Loads for Buildings and Other Structures.

American Society For Testing and Materials (2009) Practice D2488-09a Standard Practice for Description and Identification of Soils (Visual-Manual Procedure). West Conshohocken, PA.

American Society For Testing and Materials (2009) Terminology D653-09 Standard Terminology Relating to Soil, Rock, and Contained Fluids. West Conshohocken, PA.

Andraski, T.W., L.G. Bundy and K.R. Brye. (2000) Crop management and corn nitrogen rate effects on nitrate leaching. Journal of Environmental Quarterly 29: 1095-1103.

Araji, A.A., and Z.O. Abdo, and P. Joyce (2001). Efficient use of animal manure on cropland: economic analysis. Biosource Technology 79: 179-191.

Arnold, G.J., R. Stowell and B. Strobel (1998). Manure Pit Ventilation Systems for Swine Operating Principles. AEX-150-98. Ohio State University Extension: Columbus, OH.

Barth, Clyde (1987) Operation and Maintenance of Livestock Waste Lagoons, Agricultural Manure Utilization and Management, American Society of Agricultural Engineers. St. Joseph, MI.

Barth, Clyde and Jelle Kroes (1985) Livestock Manure Lagoon Sludge Characterization. Agricultural Manure Utilization and Management, Proceedings of the Fifth International Symposium on Agricultural Manure. American Society of Agricultural Engineers. St. Joseph, MI, pp. 660-671.

Barth, Clyde (1985) The Rational Design Standard for Anaerobic Livestock Lagoons, Agricultural Manure Utilization and Management, Proceedings of the Fifth International Symposium on Agricultural Manure. American Society of Agricultural Engineers. St. Joseph, MI, p. 638-647.

Chapman, S.L., G. Huitink, L. Barton, C.S. Snyder, and B.J. Hankins (1992). Best management guidelines for land application of dry poultry litter. Water Quality Information Article I-92. University of Arkansas, Cooperative Extension Service Bulletin, Little Rock, AR.

Chapman, S.L. (1995) Soil and solid poultry waste nutrient management and water quality. Poultry Science 75: 862-866.

Cornell and Penn State Cooperative Extension, Pest Management Recommendations for Dairy Cattle, Donald A. Rutz and Christopher J. Geden, Department of Entomology, Cornell University, and Charles W. Pitts, Department of Entomology, Penn State.

Cornell University, Cornell Cooperative Extension, Department of Entomology, Integrated Management of Flies in and around Dairy and Livestock Barns, D. Wes Watson, J. Keith Waldron, and Donald A. Rutz, June 1994.

David, M.B., L.E. Gentry, D.A. Kovacic, and K.M. Smith (1997). Nitrogen balance in and export from an agricultural watershed. Journal of Environmental Quality 26: 1038-1048.

Eastridge, M.L. and S. Steele (2001). Questions Pertaining to Large Dairy Enterprises in Ohio: Regulations. AS-0008-01. Ohio State University Extension: Columbus, OH.

M.L. Eastridge and S. Steele (2001). Questions Pertaining to Large Dairy Enterprises in Ohio: Regulations. AS-0009-01. Ohio State University Extension: Columbus, OH.

M.L. Eastridge and S. Steele (2001). Questions Pertaining to Large Dairy Enterprises in Ohio: Regulations. AS-0010-01. Ohio State University Extension: Columbus, OH.

M.L. Eastridge and S. Steele (2001). Questions Pertaining to Large Dairy Enterprises in Ohio: Regulations. AS-0011-01. Ohio State University Extension: Columbus, OH.

Eghball, B., J.E. Gilley, L.A. Kramer, and T.B. Moorman (2000). Narrow grass hedge effects on phosphorus and nitrogen in runoff following manure and fertilizer application. Journal of Soil and Water Conservation 55(2): 172-176.

Eghball, B., G.D. Binford, and D.D. Baltensperger (1996). Phosphorus movement and adsorption in a soil receiving long-term manure and fertilizer application. Journal of Environmental Quality 25: 1339-1343.

Gilley, J.E. and L.M. Risse (2000). Runoff and soil loss as affected by the application of manure. American Society of Agricultural Engineers Vol. 43(6):

1583-1588.

Godwin, D.C. and J.R. Miner (1996). The potential of off-stream livestock watering to reduce water quality impacts. *Biosource Technology* 58: 285-290.

Govindasamy, R., M. J. Cochran and E. Buchberger (1994). Economic implications of phosphorus loading policies for pasture land applications of poultry litter. *Water Resources Bulletin Paper Number 93116 Vol. 30, No. 5*: 901-910.

Henry, G.M., M.A. DeLorenzo, D.K. Beede, H.H. Van Horn, C.B. Moss and W.G. Boggess (1995). Determining optimal nutrient management strategies for dairy farms. *Journal of Dairy Science* 78: 693-703.

Janzen, R.A., W.B. McGill, J.J. Leonard and S.R. Jeffery (1999). Manure as a resource ecological and economic considerations in balance. *American Society of Agricultural Engineers Vol. 42(5)*: 1261-1273.

Kohn, R.A., Z. Dou, J.D. Ferguson and R.C. Boston (1997). A sensitivity analysis of nitrogen losses from dairy farms. *Journal of Environmental Management* 50:

417-428.

Kudva, I.T., K. Blanch and C.J. Hovde (1998). Analysis of escherichia coli O157:H7 survival in ovine or bovine manure and manure slurry. *Applied and Environmental Microbiology* 64: 3166-3174.

Lanyon, L.E. (1994). Dairy manure and plant nutrient management issues affecting water quality and the dairy industry. *Journal of Dairy Science* 77: 1999-2007.

Leeds, R., L.C. Brown, M.R. Sulc, and L. VanLieshout (1994). *Vegetative Filter Strips: Application, Installation and Maintenance*. AEX-467-94. Ohio State University Extension: Columbus, OH.

Mancl, K. and M.A. Veenhuizen (1991). *Avoiding Stream Pollution from Animal Manure*. AEX-708-91. Ohio State University Extension: Columbus, OH.

Manual of Steel Construction. 1991. American Institute of Steel Construction. Chicago, IL.

MidWest Plan Service. 2005. *Rectangular Concrete Manure Storages*, MWPS-36. Iowa State University, Ames, IA.

MidWest Plan Service. 1994. *Concrete Manure Storage Handbook*, MWPS-36. Iowa State University, Ames, IA.

MidWest Plan Service. 1987. *Beef Housing and Equipment Handbook*, MWPS-6. Iowa State University, Ames, IA.

MidWest Plan Service. 2004. Manure Characteristics Manure Management

Systems Series, MWPS-18 Section 1, Second Edition. Iowa State University, Ames, IA.

MidWest Plan Service. 2001. Manure Storages, MWPS-18 Section 2. Iowa State University, Ames, Iowa.

MidWest Plan Service. 2000. Dairy Freestall Housing and Equipment, MWPS-7. Iowa State University, Ames, IA.

MidWest Plan Service. 1993. Livestock Waste Facilities Handbook, MWPS-18, all chapters. Iowa State University, Ames, IA.

Midwest Plan Service, TR-9: Circular Concrete Manure Tanks, 1999, Iowa State University, Ames, IA.

Midwest Plan Service, 1983, Swine Housing and Equipment Handbook, MWPS-08. Iowa State University, Ames, IA.

Miner, J.R. (1997) Nuisance concerns and odor control. Journal of Dairy Science 80: 2667-2672.

Miner, J.R. (1999). Alternatives to minimize the environmental impact of large swine production units. Journal of Animal Sciences 77:440-444.

Mississippi State University, Mississippi State Extension Service, Control Commensal Rodents In Poultry Houses, December 2, 1999.

Moore, P.A. Jr., T.C. Daniel, A.N. Sharpley and C.W. Wood (1995). Poultry manure management: Environmentally sound options. Journal of Soil and Water Conservation 50(3): 321-327.

Mueller, D.H., R.C. Wendt and T.C. Daniel (1984). Journal of the Soil Science Society of America 48:901-905.

National Design Specifications for Wood Construction (2005), American Forest and Paper Association in 2005 National Design Specifications. American National Standards Institute, Leesburg, VA.

North Central Regional Research Publication No. 284, Manure Digestion, Runoff, Refeeding, Odors, MWPS-25 (1982), Iowa State University, Ames, IA.

North Dakota Agricultural Experiment Station. Recommended Chemical Soil Test Procedures for the North Central Region, North Central Region Committee on Soil

Testing and Plant Analysis (NCR#13).

USDA Natural Resources Conservation Service. 2009. National Engineering Handbook, Part 651, Agricultural Waste Management Field Handbook, all chapters, USDA, Washington, DC.

Northeast Regional Agricultural Engineering Service, Dairy Free Stall Housing, NRAES-24 (1986), Harrisburg, PA.

Northeast Regional Agricultural Engineering Service, Dairy Manure Management, NRAES-31 (1989), Syracuse, NY.

Northeast Regional Agricultural Engineering Service, Dairy Manure Management from Barn to Storage. NRAES-108 (1998), Ithaca, NY.

Northeast Regional Agricultural Engineering Service, Dairy Reference Manual, 3rd Edition, NRAES-63, Pennsylvania State University.

Northeast Regional Agricultural Engineering Service, Designing a Modern Milking Center, NRAES-73, Rochester, NY.

Northeast Regional Agricultural Engineering Service, Animal Behavior and the Design of Livestock and Poultry Systems (1995), Indianapolis, IN.

Northeast Regional Agricultural Engineering Service, On Farm Composting Handbook, NRAES-54, Ithaca, NY.

Northeast Regional Agricultural Engineering Service, Earthen Manure Storage Design Considerations (1999), Ithaca, NY.

Northeast Regional Agricultural Engineering Service, Guideline for Milking Center Wastewater (1998), Ithaca, NY.

Northeast Regional Agricultural Engineering Service. Liquid Manure Application Systems Design Manual (1998), Ithaca, NY.

Northeast Regional Agricultural Engineering Service, Post-Frame Building Handbook, Materials, Design Considerations, Construction Procedures (1997).

Northeast Regional Agricultural Engineering Service, Poultry Waste Management Handbook, NRAES-32 (1999), Ithaca, NY.

Northeast Regional Agricultural Engineering Service, Private Drinking Water Supplies, NRAES-47 (1991), Ithaca, NY.

Ohio Department of Natural Resources (2010). Rainwater and Land Development: Ohio Standards. Columbus, OH.

Ohio Department of Natural Resources. Evaluating Ground Water Pollution Potential in Ohio (Drastic).

Ohio Livestock Manure And Wastewater Management Guide - Bulletin 604 (2006). Columbus, OH: Ohio State University.

The Ohio State University, College of Veterinary Medicine, Rodent Control, Grasso M. Ebako, DVM, MS, MS.

The Ohio State University, Ohio State University Extension, Livestock and Livestock Building Pest Management, Using Fly Parasites with Chemicals, Bulletin 473.

The Ohio State University, Ohio State University Extension, Poultry Pest Management Bulletin 853, William R. Lyon, 1995.

The Ohio State University, Ohio State University Extension, Pet Pest Management Bulletin 586, William R. Lyon, 1997.

Parsons, R.L., J.W. Pease, and D.J. Bosh (1995) Simulating nitrogen losses from agricultural land: Implications for water quality and protection policy. Water Resources Bulletin, American Water Resources Association 31(6): 1079-1087.

Pest Management Recommendations for Poultry (2000) , Department of Entomology, Penn State.

Purdue University, Department of Entomology, Ralph E. Williams, Focus on Flies: The Integrated Pest Management Approach.

Purdue University Extension, Using the Presidedress Nitrate Soil Test (PSNT) to Predict N Needs for Corn, David Mengel, Extension Agronomist, AGRY 96-09
Purdue University, West Lafayette, IN.

Sauer, T.J., T.C. Daniel, P.A. Moore, Jr., K.P. Coffey, D.J. Nichols, and C.P. West

(1999). Poultry litter and grazing animal waste effects on runoff water quality. Journal of Environmental Quality 28: 860-865.

Sharpley, A. and B. Moyer (2000). Phosphorus forms in manure and compost and their release during simulated rainfall. Journal of Environmental Quality 29: 1462-1469.

Simeral, K.D. (1998). Using Constructed Wetlands for Removing Contaminants from Livestock Wastewater. A-5-98. Ohio State University Extension: Columbus, OH.

Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat and Alfalfa. Bulletin E-2567. East Lansing Michigan; Michigan State University. M.L. Vitosh (Michigan State University), J.W. Johnson (The Ohio State University), and D.B. Mengel (Purdue University). 1995.

The University of Florida, Book of Insect Records, Department of Entomology and Nematology, University of Florida, Gainesville, 2002.

The University of Georgia-Department of Entomology, Fly Control in Livestock Facilities, Dairy Barns, Swine Barns, Livestock Sheds, Other Animal Buildings, Craig Sheppard, Entomologist, March 6, 2001.

The University of Nebraska, Institute of Agriculture and Natural Resources, Insects and Pests, 2001.

USDA-Natural Resources Conservation Service. Field Office Technical Guide: Section IV. Washington, DC/Columbus, OH.

USDA-Natural Resources Conservation Service (2006). Field Office Technical Guide: Section IV. Conservation Practice Standard, Waste Treatment Lagoon, Code 359. Washington DC/Columbus, OH.

USDA-Natural Resources Conservation Service (2012). Field Office Technical Guide: Section IV. Conservation Practice Standard, Practice Nutrient Management Code 590. Columbus, OH.

USDA-Natural Resources Conservation Service (2009). National Engineering Handbook-Part 651: Agricultural Waste Management Field Handbook. Washington, DC.

USDA-Natural Resources Conservation Service (2001). National Soil Survey Handbook. Washington, DC.

USDA-Natural Resources Conservation Service (1997). Engineering Field Manual: Chapters 1-19. Washington, DC.

USDA-Natural Resources Conservation Service (2002). National Engineering Handbook-Code 393 Filter Strip Field Handbook. Washington, DC.

USDA-Natural Resources Conservation Service (2008). National Engineering Handbook-Code 412: Grass Waterways Field Handbook. Washington, DC.

USDA-Natural Resources Conservation Service (2007, 2011., 2002 &2010). National Engineering Handbook-Code 521A, 521B, 521C, 521D: Pond Sealing and Lining Field Handbook. Washington, DC.

USDA-Natural Resources Conservation Service (2012). National Engineering Handbook-Part 561: Filter Strips Field Handbook. Washington, DC.

USDA-Natural Resources Conservation Service, Concrete Construction Specification 210-VI-EFH, Amend OH-17-1, September 2013.

USDA Soil Conservation Service, 1989, Technical Release 74, Lateral Earth Pressures.

Van Horn, H.H., A.C. Wilkie, W.J. Powers and R.A. Nordstedt (1993). Components of dairy manure management systems. Journal of Dairy Science 77: 2008-2030.

Wilkerson, V.A., D.R. Mertens, and D.P. Casper (1997). Prediction of excretion of manure and nitrogen by Holstein dairy cattle. Journal of Dairy Science 80: 3193-3204.

Zahn, J.A., J.L. Hatfield, Y.S. Do, A.A. DiSpirito D.A. Laird, and R.L. Pfeiffer (1997). Characterization of volatile organic emissions and wastes from a swine production facility. Journal of Environmental Quality 26: 1687-1696.

Zahn, J.A., J.L. Hatfield, D.A. Laird, T.T. Hart, Y.S. Do, and A.A. DiSpirito (2001). Functional classification of swine manure management systems based on effluent and gas emission characteristics. Journal of Environmental Quality 30: 635-647.

Zublena, J.P., J.C. Barker, J.W. Parker, and C.M. Stanislaw (1993). Soil facts: swine manure as fertilizer source. North Carolina Cooperative Extension Service, Statesville, NC.

- (C) Is the proposed rule or rule amendment being adopted or amended to enable the state to obtain or maintain approval to administer and enforce a federal environmental law or to participate in a federal environmental program ?

Yes

Is the proposed rule or rule amendment more stringent than its federal counterpart ? **Yes**

What is the rationale for not incorporating the federal counterpart?

The federal counterpart has been incorporated into the rule.

- (D) If this is a rule amendment that is being adopted under a state statute that establishes standards with which the amendment is to comply, is the proposed rule amendment more stringent than the rule that it is proposing to amend? **Yes**

Please explain why?

To comply with the federal regulations for NPDES delegation.