Wastewater Permitting and Enforcement Department of Natural Resources

The Department of Natural Resources (DNR) administers the Wisconsin Pollutant Discharge Elimination System (WPDES) program, which regulates the discharge of pollutants to surface water and groundwater. As part of its

responsibility, DNR is required to ensure that approximately 1,250 municipal wastewater treatments plants, industrial wastewater treatment facilities, and large livestock farms known as concentrated animal feeding operations (CAFOs), are complying with the terms of their permits. WPDES

permits, which are issued for five-year periods, typically place limits on the type and concentration of pollutants that may be discharged, place ongoing monitoring and reporting requirements on permittees, and establish requirements for practices such as waste collection systems and land application procedures for manure.

Committee, we reviewed:

trends in the number of permittees, revenues, expenditures, and DNR staffing for permitting and oversight activities; DNR's timeliness in issuing permits;

DNR's compliance with statutory and administrative rule requirements;

the compliance of regulated entities with

At the request of the Joint Legislative Audit

- permit requirements; DNR's monitoring and oversight activities; and the consistency and appropriateness of
- **Expenditures** Expenditures for the WPDES program

DNR's enforcement actions.

or by 11.7 percent. In both years, salaries and fringe benefits comprised over 90 percent of total program expenditures. Expenditures for the WPDES program are

funded by a combination of state, federal,

increased from \$9.3 million in fiscal year

(FY) 2005-06 to \$10.4 million in FY 2014-15,

and program revenue. **Permitting Process**

administered. Permits that are not reissued

10 percent for both municipal and industrial permits and to no more than 15 percent for

industrial permits. In addition, DNR met its goal of having no more than a 15 percent backlog for CAFO permits for 9 of the

Permit Backlog¹

2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015²

before they expire are administratively extended and become part of a backlog. DNR has established a goal to limit its WPDES permit backlog to no more than

Staff of the Environmental Protection Agency (EPA) indicated that the size of a permit backlog is one indicator of how well a state's wastewater program is

From 2005 through 2015, DNR met its goal of having no more than a 10 percent backlog for municipal permits for 4 of these 11 years, but never met this goal for

11 years we reviewed.

CAFO permits.

 6.0%
 4.7%
 6.8%
 10.0%
 14.1%
 19.0%
 26.1%
 30.1%
 29.8%
 27.6%
 22.5%
13.9% 13.2% 16.3% 19.4% 21.6% 27.4% 37.1% 43.9% 36.0% 27.0% 27.7% 13.6% 13.2% 10.4% 13.6% 11.9% 13.5% 13.7% 15.1% 15.4% 9.9% Shaded cells indicate DNR did not meets its backlog goal: no more than for CAFO permits. ¹Based on July of each year. ²Based on unaudited data reported by DNR. **Monitoring and Oversight** It is DNR's goal to inspect major municipal and industrial permittees at least once every two years, inspect minor municipal and

industrial permittees at least twice during each five-year permit term, and inspect

CAFO permittees at least twice during each

The extent to which DNR met its goal for inspecting major municipal permittees declined from a high of 92 percent during the two-year period from 2005 through 2006 to a low of 45 percent during the

two-year period from 2010 through

from 2005 through 2006 to a low of

types generally increased thereafter.

21 percent during the two-year period from 2010 through 2011. Inspections for both

We found that although the extent to which

during this period. We also found significant

achieved its inspection goals for municipal, industrial, and CAFO permittees among its

> **Selected Notices of Violation for Municipal** and Industrial Permittees

DNR met its goal for CAFO inspections increased from 2005 through 2014, the percentage never exceeded 48 percent

differences in the extent to which DNR

2011. The percentage of major industrial permittees inspected at least once within each two-year period declined from a high of 95 percent during the two-year period

five-year permit term.

2005 through 2014 Exceeding Effluent Limits 403

Late Reporting

five regions.

¹ Includes 16 notices of violation that addressed all of the violations for which a notice should have been issued and 17 notices that addressed only some of the violations for which a notice should have been issued. ² Based on the criteria established in DNR's policies.

We assessed DNR's compliance with its policies for determining when notices of violation "should be issued" in response to violations of the amount of pollutants discharged in treated wastewater, which is known as effluent, and for late reporting by municipal and industrial permittees. We found that DNR issued notices of violation for only 33 of the 558 instances

(5.9 percent) for which a notice of

violation should have been issued from 2005 through 2014. Moreover, of the 33 notices of violation that DNR issued, 17 (51.5 percent) did not address all of the effluent and reporting violations for which a notice of violation should have been issued.

The extent to which notices of violation were issued in accordance with its policies

among DNR's five regions also varied.

We also found the percentage of CAFO

enforcement action from 2005 through 2014 ranged from 17.6 percent in the Northern Region to 56.8 percent in the Northeast Region. The Northeast Region was an outlier and 19 of the 20 CAFO

permittees for which DNR took at least one

permittees for which DNR took five or more enforcement actions were located in this

Several ongoing issues may affect the future

administration and cost to permittees of

phosphorus limits. In October 2015, the Department of Administration (DOA) directed DNR to request a statewide

multi-discharger variance from EPA because DOA estimated the cost to comply with the phosphorus limits, as promulgated, would total at least \$3.4 billion in capital investments, with additional debt service and operating costs of up to \$700 million

Second, after conducting a legal review of the WPDES program, EPA's Region 5 administrator issued a letter to DNR in

July 2011 that identified 75 issues with the

Enforcement Efforts

Number That DNR Actually Issued¹ Number That DNR Should Have Issued²

the WPDES program. First, in response to an EPA request and pressure from several environmental organizations, DNR established a new process for calculating

Future Considerations

region.

per year.

statutes and rules governing the program that EPA indicated needed to be addressed. Of the 64 issues affecting the municipal, industrial, and CAFO permittees included in our review, we found 33 (51.6 percent) were addressed as of April 2016, and an additional 31 (48.4 percent) were in the process of being addressed. Third, testing of wells in Kewaunee County has found unsafe levels of nitrates and bacteria, including a DNR-funded study that in November 2015 found that 34.4 percent of tested wells were contaminated. DNR formed five workgroups to study the issue, and it expects to receive the recommendations in June 2016. Recommendations We include recommendations for DNR to require its staff to electronically record the dates that annual reports submitted by CAFO permittees are received and to thoroughly review these reports (p. 44).

We further recommend DNR report to the Joint Legislative Audit Committee by November 1, 2016, on the status of its

☑ make CAFO application materials easily accessible through its website (p. 32);

☑ develop and implement a plan to further reduce the WPDES permit

☑ regularly assess its performance in

conducting inspections and improve its performance in meeting inspection goals

ensure that records of all inspections and determinations of substantial

12 months of expiration of their current permits, and that permittees

☑ regularly assess its performance in

issuing notices of violation and develop a strategy to increase the consistency between its enforcement policies and its actual practice of issuing notices of

☑ assess the regional variation in enforcement actions for CAFO permittees and provide training where needed (p. 75);

compliance are electronically recorded, that permittees are inspected within

backlog (p. 37);

(pp. 48 and 50);

efforts to:

are determined to be in substantial compliance with the terms of their permits before reissuance, as required by statutes (p. 57);

violation (p. 73);

☑ request a statewide multi-discharger variance for phosphorus limits from EPA, as directed by DOA (p. 81); ☑ address the issues identified in EPA's July 2011 letter that had not been

and

addressed as of April 2016 (p. 81);

☑ address groundwater contamination issues in Kewaunee County and the

recommendations of its workgroups (p. 83). **Printer Friendly Version**

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