

Recommendations  
by the  
Groundwater Advisory Committee:  
Report to the Wisconsin Legislature  
Pursuant to 2003 Wisconsin Act 310

December 31, 2007

Table of Contents  
Executive Summary

Chapter 1: Introduction  
    Background  
    Legislative Charge

Chapter 2: Groundwater Protection Areas (GPA)  
    2.1 Existing Framework  
        2.1.1 Background and discussion of GPAs  
        2.1.2 High capacity well application review process  
        2.1.3 DNR experiences with wells in GPAs since enactment of Act 310  
        2.1.4 Assessment of effectiveness

**2.2 Recommendations for how the scope of the law has worked for high capacity wells that are in groundwater protection areas (GPAs)**

**2.3 Recommendations for changes in the regulation of high capacity wells that are in GPAs.**

    2.3.1 Potential Modifications to GPA Framework  
    2.3.2. Alternative implementation approaches considered by GAC  
    (Position Papers)  
        2.3.2.1 Replace Current GPA concept with a case-by-case science driven review process  
        2.3.2.2 Increased distance  
        2.3.2.3 ???  
    2.233 Expanded scope of “protected waters”

    2.4 Adaptive management issues – GPAs  
    2.5 Recommendations for legislation  
    2.6 Recommendations for administrative rules

Chapter 3: Springs  
    3.1 Existing definition  
        3.1.1 Assessment of effectiveness – DNR experiences, documented problems  
        3.1.2 Research – Inventories of springs  
        3.1.2 Sensitivity of springs to impacts from pumping  
    3.2. Issues related to definition

3.2.11 Flow Rate

3.2.2 Flow frequency

3.2.3 Discharge at the surface of the land vs. other approach (pond, diffuse seepage, etc..)

3.3 Alternative Approaches Considered by GAC

1)

2)

3)

**3.4 Recommendations for how the scope of the law has worked for high capacity wells that have a significant environmental impact on a spring**

**3.5 Recommendations regarding the definition of spring in section 281.34 (1) (f) of the statutes, specifically, is the 1 CFS threshold the right threshold**

Chapter 4: Projects with High Water Loss

4.1 Background and discussion

**4.2 Recommendations for how the scope of the law has worked for high capacity wells that have a water loss of 95 percent or more**

Chapter 5: Determination of Significant Adverse Environmental Impact

5.1 Chapter NR 820 approach

5.2 Review of similar concepts in other states

**5.3 Recommendations for additional factors the department should consider in rules used to determine whether a high capacity well causes a significant environmental impact legislation**

Chapter 6: Funding

6.1 Existing funding sources

6.2 Existing and anticipated expenditures

- Administration
- Local Aid
- Research
- Mitigation

6.3 Adequacy of funding mechanisms

6.4 Recommendations for legislation

6.4 Recommendations for administrative rules

Chapter 7 Summary of Recommendations

7.1 Legislative recommendations

7.2 Recommendations for administrative rules

Figures

Tables

Appendices