## ALGAE STUDY

NO OR INSUFFICIENT DATA

Are algal mats or blooms present in sufficient quantities to pose a nuisance or hinder reproduction of endangered species as described in 62-303.351(3)?

**Planning List:** 

Go to Chart 6

*62-303.150(1)*.

62-303.351(3) (algal blooms); 62-

303.351(4) (chl a); 62-303.351(5) (trend

analysis). No Regulatory Action Per

**YES** 



Is the annual geometric mean<sup>5</sup> chlorophyll a concentration greater than 20 ug/1? 62-303.351(4).



Is there a statistically significant increasing trend in the annual geometric means<sup>5</sup> at the 95 percent confidence level in TN, TP or chlorophyll a over the planning period under 62-303.351(5)?



APPLY NUMERIC THRESHOLDS (next page)

## **Study List:**

**YES** 

YES

62-303.150(1) & 62-303.390(1) (cause unknown); 62-*303.390(2)(a) (trend analysis).* **No Regulatory Action Per** 

YES

62-303.150(1) & 62-303.390(1).

YES (REMAIN ON LIST)

Is the cause of imbalance known as stated in 62-303.150(1)?

NO

Did DEP (1) confirm the trend after controlling for or removing the effects of confounding variables such as climatic and hydrologic cycles, seasonality, quality assurance issues, and changes in analytical methods or method detection limits; and (2) reasonably expect that the water will become impaired within 10 years taking into consideration the current concentrations of nutrients or nutrient response variables and the slope of the trend? 62-303.390(2)(a).

NO