

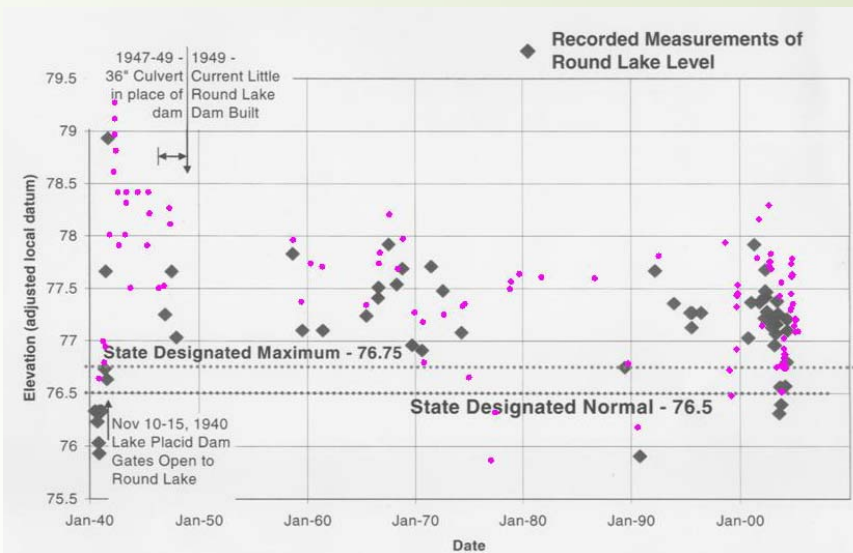


ROUND LAKE WATER LEVEL DISPUTE RESOLUTION

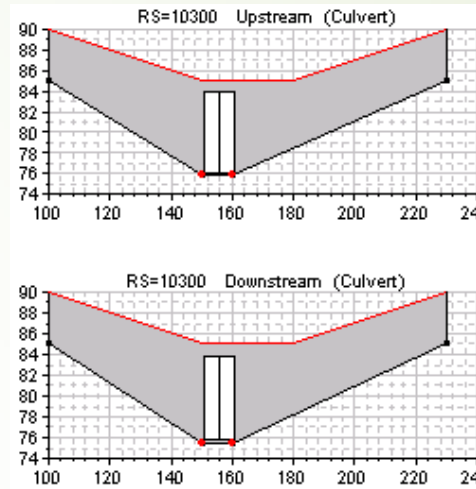
SAWYER COUNTY, WI

LAKES & WETLANDS

MARS served as technical experts for Stafford Rosenbaum, LLP to assist their work for Sawyer County, Wisconsin in a dispute of water levels in Round Lake. This closed depression lake experienced water level fluctuations of approximately 10 feet before hydraulic control structures were constructed in the 1940s - 1960s. Even with these controls, the lake level regularly fluctuates several feet due to the small size of the double box culvert outlet structure and downstream channel, and the flat gradient to downstream lakes which severely limit Round Lake's outflow.



MARS conducted an analysis of long-term water level and dam operation records, made difficult due to the long history of local survey datums used to reference water levels, and used hydraulic modeling to evaluate options for and constraints on lake level control. We also investigated the failure mechanisms responsible for shoreline erosion that was blamed on lake levels. Legal support included technical briefings, depositions and preparation of content for legal documents. With our help in supplying and interpreting complex technical information, a settlement was reached to end the legal dispute.



Client

Stafford Rosenbaum, LLP
Contact: Matt Dregne (608.256.0226)

Sawyer County, WI
Contact: Kris Mayberry (715.634.4866)

Project Manager

Rob Montgomery, PE

Key Staff

Steve Gaffield, PhD, PE

Collaborators

Spatial Data Surveys

Project Schedule

April 2004 – June 2005