



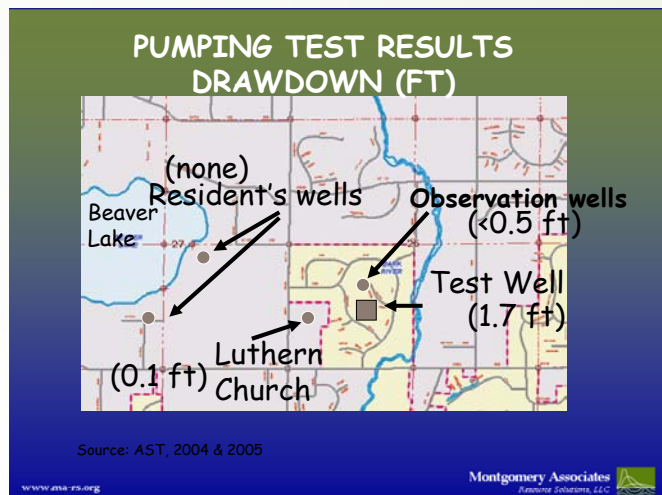
# BEAVER LAKE IMPACT ANALYSIS

WAUKESHA COUNTY, WI

## LAKES AND WETLANDS

Beaver Lake residents were concerned that their lake levels and water quality could be adversely impacted by a proposed municipal well to be constructed approximately 3,500 feet from the lake by the Village of Hartland.

- Negotiated agreement between Village of Hartland and Beaver Lake Yacht Club to approve a plan regarding investigation, analyses, and criteria defining impact of the proposed shallow municipal well.
- Constructed an analytical element model to estimate reduction in groundwater flow to the lake as a result of pumping the municipal well.
- Results showed minimal drawdowns in the near shore area of the lake and that the recharge areas of the municipal well and lake did not overlap.
- Future development in the groundwater recharge area may reduce groundwater recharge and adversely impact groundwater inflow to the lake.



### Client

Beaver Lake Yacht Club (Lake Association)

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### Project Manager

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### Project Schedule

2002 - 2004