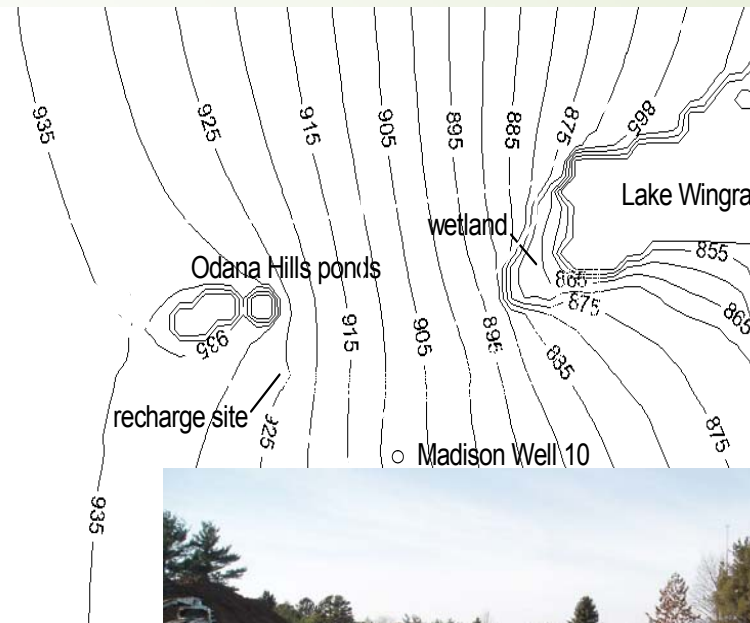




# GROUND WATER RECHARGE SYSTEM DESIGN

ODANA HILLS GOLF COURSE, MADISON,  
WI

Montgomery Associates designed a stormwater filtration system to augment groundwater flowing to Madison- area lakes by up to 80 million gallons per year to offset potential impacts of lake water withdrawal by the new West Campus Cogeneration Facility on the University of Wisconsin – Madison campus. MARS performed a detailed feasibility analysis including evaluation of approximately 20 potential locations for the system. The Odana Hills Golf Course was chosen for its hydrogeologic conditions and the opportunity to alleviate stormwater discharges to local lakes. The system will draw water from an existing pond that receives significant stormwater inflow, filter it and pump it to a subsurface infiltration bed. System design required extensive modeling of watershed runoff, pond hydraulics, infiltration processes and groundwater flow. We coordinated lengthy permit processes with the Wisconsin Department of Natural Resources and City of Madison, prepared construction plans and specifications and, provided construction-time support services



## GROUND WATER

### Client

Madison Gas & Electric Company

PO Box 1231

Madison, WI 53701-1231

Contact:

Donald Peterson

Executive Director - Energy Products &  
Services

(608) 252-7926

### Project Managers

Rob Montgomery, P.E.

Steve Gaffield, PhD

### Key Staff

Nancy Zolidis, PhD

Jeff Hruby, P.E.

Jon Lefers, P.E.

### Collaborators

Spatial Data Surveys

Mayo Corporation

Ken Saiki Design, Inc

Natural Resources Consulting, Inc

Tyler & Associates, Inc

Phillip Barak, PhD.

### Project Schedule

2004 – 2006

