



**Madison Gas and Electric Company**

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*your community energy company*

August 24, 2005

Zoning Administrator  
Madison Plan Commission  
215 Martin Luther King Jr. Boulevard, Room LL-100  
Post Office Box 2985  
Madison, Wisconsin 53701-2985

Subject: Letter of Intent - Odana Hills Groundwater Recharge Project

Dear Sir or Madam:

This letter details MGE's and the UW's plan to build a groundwater recharge project at the Odana Hills Golf Course.

### **Background**

The new West Campus Cogeneration Facility (WCCF) is jointly owned by MGE and the UW-Madison. It provides heating and cooling to the UW-Madison campus as well as 150 megawatts of electricity for the Madison area.

The WCCF draws water from Lake Mendota, which is a part of the Yahara River watershed. The facility's water withdrawal from Lake Mendota is not expected to produce a significant impact on Dane County's lakes and rivers except during times of extreme low flows, which may occur every three to four years on average.

The Wisconsin Department of Natural Resources (WDNR) permit for surface water withdrawal for the WCCF requires augmentation of flow in the Yahara River during times of extremely low flow to mitigate impacts of baseflow reduction. The water source for flow augmentation is a well located near the river. The state permit also requires groundwater recharge of 80.4 million gallons per year to compensate for the anticipated volume of groundwater to be pumped from the well to the river.

After careful consideration of over 20 sites, the Odana Hills Golf Course emerged as the site with the best potential for a successful recharge system.

### **Proposed Recharge System**

The proposed recharge system will pump stormwater from the existing large pond on the western side of the golf course to an infiltration field between Fairways 6, 7, and 8 (Figure 1). The proposed system includes the following elements:

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- A wet well with a submerged inlet located in approximately 4.5 feet of water.
- A 1,200-square-foot pump and filter house.
- An approximately 1,700-foot-long, 10-inch PVC underground distribution line from the pump and filter house to the infiltration trench network.
- An approximately 9,000-lineal-foot trench network covering approximately two acres.
- Restoration of the golf course surface at the end of construction.

Design professionals involved include:

- Engineer - Montgomery Associates Resource Solutions LLC
- Architect - Mayo Corp.
- Landscape architect - Ken Saiki Design

MGE Construct will be the general contractor for all construction activities.

### **Public Participation**


MGE has held several public meetings to solicit input and answer questions of neighbors and other interested persons about the project. MGE is cooperating closely with City staff and the WDNR on the final project details.

### **Design Implementation**

We anticipate completing the WDNR permitting process in September 2005. Construction of the proposed recharge system is planned to begin in the fall of 2005 in coordination with golf course activities, with system operation beginning in the spring of 2006 in accordance with the requirements of the water use permit issued by the WDNR for the WCCF.

MGE and the UW-Madison will enter into an easement with the City so the facilities can be constructed at the Odana Hills Golf Course.

Sincerely,



Donald D. Peterson  
Executive Director - Energy Products and  
Services

kmd/Enclosures

cc: Mike Allen  
Steve Pitts  
Bob Stoffs