

A yellow dump truck is shown from a side profile, positioned on a dark, muddy bank. Its bed is raised at a steep angle, dumping a load of dark, wet material into a body of water. The water is calm, reflecting the truck and the clear blue sky above. In the background, a line of bare trees marks the horizon under a clear, light blue sky. The scene appears to be a construction or land reclamation project.

Magruder Construction Company, Inc.

EMP Workshop
August 17, 2005

About Magruder Construction

- Heavy/Highway contractor established in 1960.
- Dredging division was established in 1986.
- COE work performed in St. Louis, Rock Island, Memphis, Kansas City, Little Rock and Jacksonville Districts.



EMP Projects Completed

- Batchtown Phase 1-Dredging for fish habitat in backwater slough of the Mississippi River, Pool 25.
- Gardner Division Habitat Enhancement-Backwater dredging for fish habitat, riprap armor on islands, establishment of RPM trees. Mississippi River Pool 21.
- Batchtown Phase 2-Water control structures, berms, mobile floating pump, rehabilitate existing pump station. Mississippi River Pool 25.
- Lower Swan Lake Pump Station-50,000 gpm pump station. Illinois River at Grafton.
- Calhoun Point Phase 1-Dredging for fish habitat, water control structure, channel excavation, berms, pump access ramps. Confluence of the Mississippi and Illinois Rivers.

Batchtown Phase 2





Lower Swan Lake Pump Station







Calhoun Point-Phase 1





EMP Project Under Construction

- Calhoun Point-Ph. 2
Four water control structures, 9 miles of berms, two pump stations, two pump access ramps, modifications to Swan Lake water control structures













How does a contractor view EMP
Projects?

High Risk!!!!!!!!!!

Risks

- Projects are typically unique. Lack of historical cost records.
- Access can be very difficult.
- Flood events are frequent.
- Control of ground water.
- Lots of unknowns!

Difficult Access









Floods













Opportunities to Reduce Risk

- Use repetitive design for similar structures.
- Provide more detailed information on contract drawings.
- Provide a means of access to sites.

Keys to Success

- Plan to conquer the obstacles.
- Plan for safety.
- Cooperate with all of the team.
- Enjoy the scenery.

U.S. Army Corps of Engineers



Rock Island District

2001 Civil Works Construction Contractor of the Year

is awarded to

Magruder Construction, Co.

For outstanding innovation and cooperation on the Gardner Division Habitat Rehabilitation and Enhancement Project as part of the Environmental Management Program. The project consisted of protecting valuable river islands with revetment, dredging, year-round fish access to side-channel aquatic habitats, and creating moist soil units for waterfowl. The project cost was approximately \$4 million, with principal features completed ahead of schedule. Throughout the entire project, Magruder was proactive in resolving and immediately responding to problems and differing site conditions, despite working in varying river conditions from high water to low flows with minimal access to the work areas. Magruder's excellent work methods and prudent approach to accomplishing work when weather conditions were favorable resulted in a win-win project exceeding all environmental goals. Magruder's construction work successfully met the Rock Island District goals of providing premier environmental resource improvements to our customer, the U.S. Fish and Wildlife Service, and to our nation.

Daniel J. Holmes, P.E.
Chief, Construction Div.

Duane P. Gapinski
Colonel, U.S. Army
District Engineer



