



For additional information on how Hull & Associates can support your project needs please contact:

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INSPECTION, ANALYSIS AND PLANNING

Hull has completed numerous water control projects throughout the Midwest from conception through design, ranging from dams for coal combustion residual containment systems (CCR), municipal water-supply reservoirs to smaller levees, lagoons or dams for settling ponds at industrial processing systems and private recreational lakes. We provide a full range of dam engineering services including design and permitting, subsurface explorations, siting studies, wetland delineations, construction services, instrumentation monitoring, and emergency action and safety inspections; and are familiar with federal and state design and safety requirements. Our staff includes geotechnical engineers, civil engineers, hydrogeologists, water resource managers as well as supporting science-based disciplines (e.g., soil scientists, ecologists, biologist, etc.) that understand the full spectrum of project implications.

Examples of projects types include:

- Performing detailed geotechnical investigations, including slope stability, borrow soil characterization, settlement and seepage analyses.
- Performing inspections using professional safety engineers.
- Conducting assessments of structural integrity.
- Design repairs to existing dams with deficiencies.
- Hydraulic and hydrologic analysis to size spillway systems
- Designing overflow structures



- Preparing dam and drinking water permits
- Developing 401/404 permit applications for existing wetland areas and wetland mitigation plans
- Performing ecological assessments of the rivers and developing water withdrawal plans for filling the reservoir
- Designing pump station and conveyance systems for both fill and extraction of stored water and for the rerouting of existing drainage tiles
- Preparing contract documents and specifications for construction
- Identifying and securing project funding
- Performing construction administration, including observation and testing services



We have also prepared and implemented Operation, Maintenance and Inspection Manuals, performed multiple inspections on existing dams, and provided design upgrades and recommendations for maintenance and repairs. Hull has also been involved with feasibility studies on the environmental and ecological impacts associated with both the construction and removal of dams.



Our experienced staff, together with a fully equipped and American Association of State Highway and Transportation Officials (AASHTO) accredited geotechnical/materials testing laboratory, can offer a value added component for a water control project team. Our team understands regulations, optimizes construction techniques with innovative designs, and maintains project resources within a multi-disciplinary setting that can be an effective risk and liability management tool for identifying implementation constraints and assist with developing remedial designs.

Hull is a member of the Ohio Dam Safety Organization (ODSO) of the Water Management Association of Ohio (WMAO) and has several engineers that hold an Impoundment Inspection Certification through the Mine Safety and Health Administration.