

# Wetlands

*“Wetland management is essential for a balanced ecological system. Incorporating it into your plans is a necessary evil - we make it a smooth, easy process from start to finish.”*

## SERVICES:

- **Wetland Delineation**
  - Identification
  - Classification
  - Vegetation Inventories
  - Soil Samples
  - GPS Mapping
  - Boundary Surveys
- **Wetland Function and Values Evaluation**
  - MNRAM
  - HGM
- **Permit Applications**
  - Jurisdictional Determinations
  - Army Corps of Engineers
  - DNR
  - WCA
- **Mitigation Design**
  - Regulatory Contact
  - Created Wetland Credit
  - Preservation Credit
  - Restoration Credit
- **Wetlands Construction and Restoration**
  - Control Structure Design
  - Seeding & Planting Plans
  - Grading Oversight
- **Wetland Monitoring**
  - Annual Reporting
  - Wetlands Viability Assessments
  - Modifications
- **Cease & Desist Orders**
- **Restoration Orders**
- **Wetland Banking**
  - Regulatory Contact
  - Bank Account Setup
  - Bank Designs
  - Seeding & Planting Plans

## OUR APPROACH:

Wetlands have been known to delay or even stop a project. At Pinnacle we believe that working with landscape architects and engineers prior to regulatory review is essential in order to facilitate permit approval in a timely and cost effective manner. Then, meeting with regulators to ascertain any problem areas and arriving at a workable solution is the best way to keep a project on track.



## BENEFITS TO YOU:

Usually the management of wetlands is associated with land development projects. As a full-service environmental consultant, Pinnacle can provide other interrelated services to solve additional issues related to your project, thus reducing the time, cost and resources allocated to the project.

## PINNACLE SOLUTIONS:

Pinnacle managed the property development of a large residential developer which involved identifying and delineating over 15 separate wetlands, several jurisdictional ditches and a County drainage ditch located on over 400 acres. Extensive regulator negotiations were needed to determine the jurisdictionality of some of the site's wetlands. This project involved the preparation of documents that secured a Wetland Conservation Act (WCA) and Army Corps of Engineers (ACOE) permit for the project, and a multiple year wetland monitoring plan for the mitigation areas.