

Wetland Management Services



Capabilities

- Wetland Determination/Delineation
- Preliminary and Final Delineations
- Floodplain/ Hydrologic Analyses
- GIS Mapping
- Aquatic/Riparian Habitat Assessment
- ESA Consultation
- Wetland Mitigation
- Clean Water Act 404 Permitting
- Vegetation Surveys
- Revegetation Design/Monitoring
- Irrigation Systems Modification
- Stream Restoration

Key Projects

The Willows Subdivision, Lake Fork, Idaho

Wetland Mitigation Plans for the Willows Subdivision were developed for impacts to areas subject to jurisdiction under Section 404 of the Clean Water Act regulated by the United States Army Corps of Engineers.

Mitigation Plans were developed as a result of subdivision development activities, resulting in a 1.5:1 mitigation ratio.

Wetland Revegetation, Horseshoe Bend Hydroelectric Co., ID

Installed piezometers and collected groundwater elevation data as part of a mitigation effort along a wetland corridor; Correlated groundwater and surface water hydrology; and selected and planted appropriate hydrophytic vegetation within the wetland areas.

New Meadows Wetlands, Idaho

Wetland delineation of a 300-acre parcel consisted of a preliminary delineation, mapping the wetland boundaries in GIS, and a floodplain study. The floodplain study mapped the 100 yr floodway, calculated basin characteristics such as flood recurrence intervals, area, and general hydrology.

Wetland Delineation, McCall, ID

Characterized hydrology, soil, and vegetation at various transects in upland, wetland, and transitional zones, delineated the wetland boundary, and coordinated work activities with the Army Corps of Engineers.

Wetland Delineation/Groundwater Study, Boise, ID

Generated 6 inch contours from high resolution Light Detection and Ranging (LIDAR) data, and mapped all pertinent land features including, structures, roads, fence lines, water bodies, irrigation and drainage ditches.

A subsurface groundwater model in conjunction with a surface elevation model was developed to determine the depth to groundwater. Optimum areas for wetland enhancement were delineated with high resolution aerial photography.

Donnelly Wetlands, Idaho

This ongoing project involves assisting a developer with preliminary wetland delineation, and restoration of an existing irrigated and grazed parcel with wetland conditions. Piezometers were installed to monitor the groundwater elevations and surface water interactions.

Involvement in this project will continue to include a final wetland delineation, permitting, mitigation plan, restoration and enhancement of wetlands. Irrigation systems are also being modified to reduce the effects of flood irrigation within the parcel.

