

CYNTHIA K. JOHNSON, M.S., B.A.

Qualifications Summary

- Plant ecology with specific expertise in the ecology of upland and wetland plant communities in the Intermountain and Rocky Mountain West
- Experience with assessment includes the evaluation of environmental impacts associated with construction projects, mining projects, airport expansions, golf courses, pipelines, hazardous waste, and hydroelectric power projects
- Responsible for the delineation and evaluation of the functions and values of wetlands in Utah, Idaho, Nevada, New Mexico, California, Kansas, Texas, Oklahoma, Wyoming, and Colorado
- Developed and implemented plans for the creation of wetlands for mitigation purposes, as well as for the restoration of native upland and wetland plant communities, including construction oversight
- Coordination and management of multi-disciplinary projects employing multiple crews

Professional Certifications/Training

Qualified by the Utah, Idaho, Wyoming, and Denver, Colorado Offices of the U.S. Army Corps of Engineers to delineate wetlands • Annual attendance at Uintah Basin Rare and Listed Plant Webinar • FERC Environmental Review and Compliance for Natural Gas Facilities • BLM/USFWS Section 7 Consultation training

Fields of Competence

NEPA Environmental Assessments • Biological Assessments • Wetland/Waters of U.S. Studies • Plant Ecology • Special Status Plant and Wildlife Surveys • Permitting; Revegetation and Mitigation • Coordination of Multi-Disciplinary Data Collection • Biological Monitoring During Construction

Credentials

M.S., Range Ecology, Utah State University, Logan, UT (1984)
B.A., Biology, Rice University, Houston, Texas (1979)

Employment History

1992-present	NR Systems, Inc., dba Natural Resources Consulting
1983-1992	Ecosystems Research Institute
1980-1984	National Science Foundation Graduate Fellowship

KEY PROJECTS

Environmental and Impact Assessments: Preparation of biological sections of Environmental Assessments for proposed improvements at Tooele Valley Airport in Tooele County, Utah; Carbon County Airport in Price, Utah; McCarran International Airport in Las Vegas, Nevada; Boise Air Terminal/Gowen Field in Ada County, Idaho; Palm Springs International Airport in Palm Springs, California; Rocky Mountain Metropolitan Airport in Broomfield, Colorado; and Tucson International Airport in Tucson, Arizona. • Preparation of chapters related to biological and water resources for Environmental Reports required for FERC licensing of several natural gas pipelines in Colorado, Wyoming, Kansas, Oklahoma, and Texas. • Documentation of foreign/interstate commerce connections and unique ecological values for wetlands and waters in the Lost Rivers watersheds of Idaho. • Preparation of Biological Assessment of proposed route of West/East Light Transit Project in Salt Lake City, Utah. • Preparation of

programmatic Biological Assessments for four species of rare plants located on BLM lands in Utah. • Preparation of Biological Assessments for the proposed expansion sites of the Spanish Fork/Springville Airport in Utah County, Utah; Nephi, Utah, Municipal Airport; Fort Bridger Airport in Uinta County, Wyoming; and the Afton, Wyoming and Rexburg, Idaho airports. • Preparation of the Environmental Assessment of the proposed site for the Cache County Sheriff's Office Complex in Logan, Utah. • Preparation of Environmental Assessments for grazing management plans for livestock allotments in Utah. • Preparation of Exhibit E document for relicensing of hydroelectric project on reservoir in Cache County, Utah • Compilation of all environmental data for the Bear Lake Basin, Utah, for the purpose of development of a water quality management plan.

Environmental Monitoring: Surveys for Threatened, Endangered, Candidate, and other special status plant species on numerous sites proposed for oil/gas development in Duchesne and Uintah Counties, Utah, and Rio Blanco County, Colorado. • Biological monitoring of natural resources during construction of 231 miles of natural gas pipeline in southwestern Wyoming and northern Utah. This project included the coordination of multiple field teams and consolidation of data collected by those teams. • Construction oversight for development of mitigation wetlands to compensate for impacts due to expansion of the Salt Lake City International Airport and widening of Wolf Creek Road, Utah Forest Highway 5, in Wasatch and Duchesne Counties, Utah. • Monitoring of mitigation wetland establishment associated with construction of Wolf Creek Road in Wasatch and Duchesne Counties, Utah, and development of a municipal golf course in Logan, Utah. • Monitoring of impacts of chemical spill to riparian vegetation along Sacramento River, California. • Survey for threatened, endangered, and special status plant species along proposed road corridor, Valley County, Idaho.

Wetland Delineation Projects: Wetland delineation of more than 50 sites associated with oil/gas development in Duchesne and Uintah Counties, Utah, including two proposed pipeline corridors and road widening sites. • Wetland delineation and plant community mapping along more than 3,000 miles of proposed natural gas pipelines in Utah, Colorado, Wyoming, Nevada, New Mexico, Oklahoma, Kansas, and Texas, including more than 500 miles in Utah. • Wetland delineation of 1,700 acre parcel in Elko County, Nevada. • Wetland delineation of Buckley Air Force Basin in Colorado. • Wetland mapping on the site of a proposed ski area and residential development in Summit and Wasatch Counties, Utah. • Wetland delineation and 404 permit application for proposed route of the West/East Light Transit Project in Salt Lake City, Utah. • Wetland delineation and 404 permit application for proposed expansions of Logan/Cache Airport in Logan, Utah, Spanish Fork/Springville Airport in Utah County, Utah, and Bear Lake County Airport, Idaho. • Wetland delineation, evaluation, and impact assessment on site of proposed golf course and housing development in McCall, Idaho.

Wetland Mitigation Plans: Development and implementation oversight of mitigation plans for wetlands affected by construction of 4 segments of Wolf Creek Road in Wasatch and Duchesne Counties, Utah, including monitoring and verification of wetland establishment. • Development and implementation of mitigation plans for wetlands affected by the expansion of the Logan/Cache Airport in Logan, Utah, including monitoring of wetland establishment. • Monitoring of vegetation establishment success on wetlands constructed as mitigation for impacts due to the expansion of the Salt Lake City International Airport. • Development of mitigation plan for 121 acres of wetlands to be impacted by the construction of Ridges Basin Reservoir near Durango, Colorado. • Development of revegetation plans of stream crossings by natural gas pipeline corridor, Moffat and Rio Blanco Counties, Colorado and Uintah and Duchesne Counties, Utah. • Also responsible for the development of a restoration plan for wetlands impacted by train derailment near Tennessee Pass, Colorado. • Preparation of wetland delineation report, impact assessment report, soil erosion control plan, wetland

mitigation plan, wetland monitoring plan, and 404 permit application for proposed hydroelectric project at Horseshoe Bend, Idaho.

Reclamation Plans: Development of weed control plan for Kern River natural gas pipeline right-of-way in Wyoming, Utah, Nevada, and California. • Development of site-specific reclamation plans for stream crossings by two natural gas pipelines in western Colorado and eastern Utah. • Development, implementation, and monitoring of upland revegetation plans as part of mitigation for expansion of Logan/Cache Airport in Logan, Utah.