



**Charles
Ferris**

Lead Scientist

PROFILE

- Over 20 years of experience in the environmental field
- Worked on an array of project types across the country, with a focus in the northeast
- Experienced in project development, and permitting at the local, state and federal levels
- Wetland/Waterbody/Vernal Pool Mapping and Assessment
- Wildlife Surveys and Habitat Assessments
- Extensive experience implementing long-term water quality and vegetation surveys monitoring projects
- Construction Inspection Focused on Erosion and Sedimentation Control Planning and Permit Compliance
- Invasive Species Identification, Mapping and Management
- Natural community and rare plant survey
- Field and laboratory studies on salt marsh communities

EDUCATION

- BS, Wildlife and Conservation Biology, University of Rhode Island, Kingston, Rhode Island, 2005
- AS, Environmental Technology, Cape Cod Community College, West Barnstable, Massachusetts, 2000
- 40-hour HAZWOPER Certified, OSHA, Topsham, Maine, 2012
- FEMA ICS-100 Introduction to Incident Command System, Topsham, Maine, 2016

PREVIOUS CAREER EXPERIENCE

- Stantec Consulting. 2007-2021. Wetland Scientist
- Woodlot Alternatives, Inc. 2006-2007. Project Technician
- National Park Service. May 2004–September 2004. Biological Science Technician
- University of Rhode Island Graduate School of Oceanography. May – August 2003. Biological Science Tech.
- Scott Nixon Laboratory, University of Rhode Island Graduate School of Oceanography. May 2002–August 2002. Biological Science Technician

PROFESSIONAL CERTIFICATIONS/AFFILIATIONS

- Certified Wetland Scientist #279, New Hampshire Joint Board
- Member, New Hampshire Association of Natural Resource Scientist
- Member, Association of State Wetland Managers
- Member, Maine Association of Wetland Scientists



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Eversource Line S136 Storm Hardening Review Project | Whitefield, NH to Berlin, New Hampshire (Project Scientist) Conducted wetland delineations along transmission line corridor using the technical criteria described in the USACE Wetland Delineation Manual, and the criteria identified under the New Hampshire Code of administrative Rules.

Bingham Wind Project | Piscataquis County, Maine (Project Scientist)

Completed baseline water quality assessment within headwater streams. Assessment included collecting water quality data using a YSI multi-parameter probe and deploying rock bags to sample the macroinvertebrates in accordance with Methods for Biological Sampling and Analysis of Maine's Rivers and Streams. Conducted rare, threatened, and endangered wildlife surveys for Northern Spring Salamanders (*Gyrinophilus porphyriticus*) within streams identified as potentially suitable habitat in project area.

Oakfield Wind Project | Aroostook County, Maine (Project Scientist)

Performed wetland delineations and vernal pool surveys for a wind energy project in eastern Maine. Determined wetland boundaries using the technical criteria described in the USACE Wetland Delineation Manual. Identified streams and Wetlands of Special Significance (MDEP and the NRPA). Characterized wetland and water body resources (Cowardin et al. 1979). Documented the biological and physical characteristics of potential vernal pool habitat (MDIFW and NRPA).

Record Hill Wind Project | Oxford County, Maine (Project Scientist)

Performed wetland delineations and vernal pool surveys within designated corridors around identified areas of the Project components. Determined wetland boundaries using the technical criteria described in the USACE Wetland Delineation Manual. Identified streams and Wetlands of Special Significance (MDEP and NRPA). Characterized wetland and water body resources (Cowardin et al. 1979). Documented the biological and physical characteristics of potential vernal pool habitat (MDIFW and the NRPA).

Norwottuck Rail Trail Rehabilitation | Northampton to Belchertown, Massachusetts (Project Scientist)

Conducted wetland delineations along the Norwottuck Rail Trail using the technical criteria described in the USACE Wetland Delineation Manual and the criteria identified under the Massachusetts Wetlands Protection Act (WPA, MGL Chapter 131 Section 40, and 310 CMR 10).



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Proposed Conservation and Development Lands | Moosehead Lake Region, Maine (Project Technician)

Conducted landscape-level field reconnaissance surveys to identify and characterize significant natural resources including; rare or exemplary natural communities as defined by the Maine Natural Areas Program (MNAP); old growth forests; potential deer wintering areas; wading bird and waterfowl habitat; Canada lynx habitat; Wetlands of Special Significance based on LURC Land Use Standards; rare, threatened, or endangered (RTE) wildlife and plant species; and aquatic habitats including streams, ponds and shorelines.

Greenbush Natural Resource Characterization and Environmental Monitoring Study | Hingham, Cohasset, and Scituate, Massachusetts (Project Technician)

Assisted with monitoring vernal pool resources before, during, and after construction, including water quality monitoring, surface water sampling for hydrocarbon analysis, amphibian egg mass surveys, invertebrate and vegetation surveys, and spotted turtle radio telemetry.

Connecticut Expansion Natural Gas Pipeline, Environmental Construction Observation | Sandisfield, MA (Environmental Monitor)

On behalf of the Massachusetts Department of Conservation and Recreation (DCR) and under contract with Tennessee Gas Pipeline Company LLC, a subsidiary of Kinder Morgan, performed construction observation as a third-party environmental monitor of compliance with environmental approvals and permits along approximately 2 miles on land managed by DCR. Duties included daily observation and reporting on project compliance with the following approvals and permits: Federal Energy and Regulatory Commission (FERC) Certificate, National Pollution Discharge Elimination System Construction General Permit, Clean Water Act Section 404 permit, 401 Water Quality Certification, Massachusetts Wetlands Protection Act Order of Conditions, and Massachusetts Environmental Policy Act Certificate.

Bingham Wind Project | Piscataquis County, Maine (Environmental Monitor)

Conducted environmental monitoring for construction compliance with state and federal permit requirements. Responsibilities included inspecting site construction activities adjacent to jurisdictional resources and associated buffer zones, interpreting permit conditions to help contractors and client maintain compliance with permit requirements, documenting site stabilization efforts and impacts to jurisdictional resources in monitoring reports.

Hoosac Wind Project Berkshire and Franklin Counties, Massachusetts (Environmental Monitor)

Conducted environmental monitoring for construction compliance with state and federal permit requirements. Responsibilities included observation of site construction activities adjacent to jurisdictional resources and associated buffer zones, documenting site stabilization efforts and impacts to jurisdictional resources, and preparing monitoring reports of observations to regulatory agencies.



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TDOT Stream and Wetland Mitigation Monitoring | Tennessee (Project Scientist)

Conducted monitoring at numerous mitigation sites across the state for compliance with state and federal permit requirements, as a member of one of two field teams consisting of a stream geomorphologist and plant and wetland biologist. Responsibilities included reviewing roadway plans and state and federal permits, documenting riparian and wetland vegetation and non-native invasive plant species, and compiling reports to document observations and site performance. Reporting included recommendations to help sites meet permit performance standards.

***Natural Resource Advisory Role in Oil Spill Response | Large Interstate Oil Spill in Gulf of Mexico
Natural Resource Advisor (NRA)***

Conducted environmental oversight of oil spill cleanup activities in compliance with an emergency consultation under Section 7 of the Endangered Species Act. NRAs worked directly with operational cleanup crews to implement Best Management Practices (BMPs). These BMPs served as the formal technical guidance issued under the emergency consultation. The objective of this work was to minimize secondary impacts of the cleanup activities on protected resources, including sea turtles, migratory and nesting shorebirds, beach mice, mangrove wetlands, estuaries, coastal wetlands, and dune systems. Implemented BMPs and conducted surveys for piping plover and sea turtles within designated critical habitats. Conducted training and oversight of cleanup crews and prepared daily reports documenting NRA activities. Worked closely with cleanup operations to provide education on BMPs and documenting daily compliance for use in USFWS consultation process and evaluation of secondary impacts to protected resources as part of the Natural Resources Damage Assessment (NRDA).