



Additional Services

- 316(a) & 316(b) Compliance
- Biological Laboratory Services
- Compliance Monitoring & Reporting
- Dredge Permitting & Monitoring
- Energy Facility Siting
- Environmental Impact Assessments
- FERC Relicensing Strategies
- Habitat Assessment
- Hydroelectric Relicensing Support
- Instream Flow
- Limnology Studies
- Permitting Strategies
- Public Involvement
- Regulatory Process Support
- Restoration & Mitigation Services
- Scientific Diving
- Shoreline Erosion & Stabilization Strategies
- Siting Studies
- Soil & Groundwater Contamination Studies
- Surface & Groundwater Quality
- Surface Water Hydrology & Modeling
- Terrestrial & Aquatic Plant Surveys
- Threatened & Endangered Species Services
- Watershed Assessment & Planning
- Wetland Surveys, Delineation & Restoration
- Wind Energy Siting & Permitting

An Innovative Product for Remote Bat Acoustic Monitoring

In 2008, bat mortality surpassed bird mortality at wind farms in North America. Concerns about bat fatalities at wind energy facilities are rising as production grows and as wind turbines get taller. There is mounting evidence that taller turbines are associated with increasing bat mortality. This is expected to continue into the future.

As awareness of bat fatalities grows, regulators are increasingly evaluating the potential for bat impacts at proposed projects. The result is an increase in pre-construction and post-construction monitoring of bats. The most cost-effective assessment technique is acoustic monitoring.

Normandeau's team of dedicated bat biologists developed ReBAT™ to increase the effectiveness of bat acoustic monitoring at proposed wind facilities and to overcome the limitations of other acoustic detection systems. ReBAT™ is an integrated acoustic monitoring system for bats. It is more than just a detector, it is the state-of-the-art solution for assessing bat activity at wind farms.



WHAT MAKES ReBAT™ BETTER:

- More reliable species identification with fewer unknowns because ReBAT™ captures full-spectrum digital data, there is no data loss or degradation during data transmission, and ReBAT™ samples a larger volume of airspace.
- More reliable system with less downtime because ReBAT™ is constantly monitored by Normandeau staff who can remotely engage, assess, and restore the system.
- More accurately characterizes the bat activity in the Rotor Swept Area because ReBAT™ uses a digital signal, overcoming data loss and degradation associated with analog signal transmission.

NATIONWIDE OFFICES

Corporate

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New Hampshire

Hampton
Portsmouth
Westmoreland

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Pennsylvania

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Stowe

South Carolina

Aiken
Moncks Corner

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Stevenson
Vancouver
E. Wenatchee

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- Near real-time bat activity tracking because ReBAT™ transmits data daily and provides automated call processing that classifies calls into bat versus nonbat.
- Deployable in more places because ReBAT™ has customizable data transmission solutions, integrated thermal management, and flexible configurations.

EXPERT BAT TEAM:

In addition to bat acoustic monitoring using ReBAT™, Normandeau has a team of expert bat biologists who can provide the full suite of bat consulting services, which includes:

- Pre-construction bat likelihood analysis
- Pre-and post-construction field studies
- Risk assessments
- Agency consultation
- Regulatory compliance (Avian-Bat Protection Plans and ITP/HCPs)
- Expert Testimony
- Community outreach



About Normandeau Associates

Normandeau Associates, Inc., an employee-owned company, was founded in 1970 as an environmental consulting firm. Today, Normandeau is considered one of the nation's foremost companies in the field. Our deep and broad background as both environmental and public involvement consultants provides a wealth of knowledge and experience in disciplines ranging from environmental assessment and permitting to stakeholder interviews and facilitation.

From offices nationwide, Normandeau's staff of over 250 employees work closely with clients, regulators, and the public to seek solutions that enhance economic development, meet regulatory requirements, protect and restore natural resources, and improve communities.

Our diverse team includes marine, aquatic, wetland, and terrestrial ecologists; environmental planners; fisheries biologists and limnologists; ornithologists and botanists; soil scientists, geologists, and hydrologists; engineers; statisticians and data processing specialists; report production personnel; and public involvement professionals.

Normandeau Associates, Inc., combines experience, continuous training, hard work, and a rigorous commitment to excellence to deliver the highest possible level of service to our clients.

