



**Robert Wildey, EIT,
CPESC**

Water Resource Engineer

Mr. Robert Wildey is a Water Resources Engineer with VHB, focusing on stormwater impacts to streams and other wetland resource areas. His experience includes designing and implementing operational phase and construction phase stormwater management plans; designing and implementing stormwater treatment practices; water quality and watershed remediation planning, modeling, monitoring, and reporting; stream and wetland mitigation planning and implementation; stream geomorphic assessments, and environmental permit preparation and compliance.

11 years of professional experience

Kingdom Community Wind Farm Wetland and Floodplain Assessment and Restoration, Lowell, VT

As the result of an extreme storm event, an off-site impoundment failed and damaged road and stormwater infrastructure at the Kingdom Community Wind (KCW) project site. Mr. Wildey evaluated sediment deposition in adjacent stream channels and wetlands following this event and drafted a restoration plan that was approved by state and federal regulators. Although work on this project is on-going, he will be providing field engineering services to direct removal of excess sediment, restoration of natural stream channel, and stabilization of a potential headcut through the stream terrace.

Mount Snow Ski Resort, Cold Brook Stream Restoration, Wilmington, VT

Due to the unpermitted gravel mining operations of a former landowner, Cold Brook has been captured by two borrow pit ponds. The Brook is a cold-water fishery that is negatively affected by the resulting thermal impacts to the stream. In conjunction with a reservoir construction project being undertaken by Mount Snow, the two ponds will be filled and the stream restored following natural channel design principles. Mr. Wildey conducted hydrologic analysis of the contributing drainage area, performed stream geomorphic assessments of the upstream and downstream reference reaches and designed the proposed stream channel restoration.

Potash Brook Tributary 3 Stormwater Improvements, South Burlington, VT

As part of an on-going project to improve water quality in the Potash Brook Watershed, the City of South Burlington has proposed installation of stormwater treatment practices at the headwaters to Tributary 3. Mr. Wildey evaluated stormwater treatment practices (STPs) that would be suitable for treating the Water Quality Volume and Channel Protection Volume for the 106-acre watershed. He worked to satisfy the requirements of the multiple project stakeholders to locate and size the STPs on a space-constrained site while continuing to meet the project objectives.

Killington Ski Resort, Aquatic Organism Passage (AOP) Evaluation, Killington, VT

In response to a major culvert failure during Tropical Storm Irene, the Agency of Natural Resources requested that the Resort evaluate the existing Roaring Brook culvert beneath the Ramshead Snowfront and determine if it was hydraulically sufficient and whether or not it provided AOP. Mr. Wildey evaluated the culvert system to determine if the stream velocities precluded fish and other aquatic organisms from passing through the culvert during spawning seasons. The evaluation resulted in a proposal to enhance AOP at the downstream end of the culvert system and to replace a section of culvert that did not provide AOP and could not be retrofitted due to its size and shape.

Green Mountain Power Plant 15 Penstock Failure Stream Restoration, Danville, VT

Following the failure of the penstock at the Joe's Brook hydroelectric dam powerplant (Plant 15), Green Mountain Power requested assistance from VHB to oversee the removal of sediment that had been deposited in the stream channel, to coordinate with regulators to ensure environmental compliance, and to design stream bank stabilization measures once the project was complete. Mr. Wildey provided on-site supervision of excavator operators to guide the sediment removal and stream restoration process, assisted with implementation of ad hoc Erosion Prevention and Sedimentation Control (EPSC) measures, and coordinated with state regulators visiting the site.



Stormwater Sampling and NPDES Phase II Compliance, Medford, MA

For the City of Medford, Mr. Wildey provided consulting services to develop stormwater management ordinances, preparing National Pollution Discharging Elimination System (NPDES) Phase II Annual Stormwater Reports, and responding to EPA Clean Water Act Section 308 Requests for Information for stormwater non-compliance issues. Field services included global positioning software (GPS) location and inspection of stormwater outfalls, wet and dry weather stormwater sampling, and illicit discharge detection investigations at multiple sites.

Education

University of New Hampshire / Master of Science Civil Engineering / 2006
New College of Florida / Bachelor of Arts Environmental Science / 1997
Rosgen/ Wildland Hydrology Applied River Morphology (Level I)/ 2013

**Professional Registrations/
Certifications**

Certified Professional in Erosion and Sediment Control