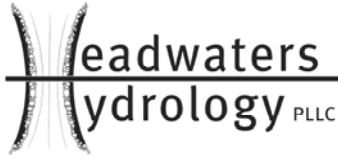


PHILIP L. BEAULIEU, P.E.



Headwaters Hydrology, PLLC
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Mr. Beaulieu is a licensed professional engineer and licensed New Hampshire subsurface disposal system designer with experience in many facets of civil engineering. As a project engineer Mr. Beaulieu's experience includes design and permitting of commercial sites, municipal and private water and wastewater systems, residential subdivisions and condominium developments. Philip has assisted small communities and private clients in the North Country for the past eight years. Philip has an excellent working relationship with environmental permitting agencies and is knowledgeable in various permit procedures, which promote a streamlined permitting process.

PERSONAL PROJECT EXPERIENCE

Granite Reliable Power, LLC, Granite Reliable Wind Park, Coos County, NH - Prepared final design plans for the proposed 99 megawatt wind park, which included 31 miles of road design and 33 wind tower sites atop three separate ridgelines. Conducted field survey of cross-sections on Phillips Brook and several unnamed tributaries to assist in preparing the hydraulic and hydrologic modeling for designing the proposed bridges and culverts.

James W. Powers, Inc., Water Glen Ridge Development, Littleton, NH - Prepared final design plans and environmental permit applications, which included a NH Wetland Dredge and Fill permit application. Due to the project size, it was necessary to mitigate for the proposed wetland disturbances. As part of the mitigation proposal, a functions and values analysis of the wetlands in accordance with the Highway Methodology Workbook Supplement was required. The proposed form of mitigation was a one time, in lieu fee payment into the NH Aquatic Resource Mitigation Fund.

South Peak Resort, Riverside Terrace Multi-family Development, Lincoln, NH - Prepared final design plans and environmental permit applications for the 22 building (176 unit) multi-family residential development. The development proposed fill within the flood plain of the East Branch of the Pemigewasset River. Therefore, a volumetric analysis of the fill areas was conducted to determine the affects of the fill on the river flood plain. The results of the analysis were used to determine the quantity of flood plain mitigation required by the US Army Corps of Engineers. Designed several thousand feet of water main and sewer main.

Town of Whitefield, Wastewater System Evaluation, Whitefield, NH - Conducted a study of the Whitefield wastewater collection and treatment system to determine if the treatment plant will meet the potential future flow rates and permit limits set forth by NH Department of Environmental Services and the US Environmental Protection Agency, because the existing treatment facility discharges directly to the John's River, which flows to the Connecticut River. Prepared preliminary designs and cost estimates for three treatment plant upgrade options to meet the potential future requirements.

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South Peak Resort, Booster Pump Station and Water Storage Tank, Lincoln, NH - Prepared design plans for the proposed booster pump station and wire-wound pre-stressed concrete water storage tank. Prepared hydraulic model of the Lincoln water system with multiple scenarios to determine the affects of the proposed pump station and storage tank on the overall operation of the existing system.

Town of Northumberland, Water and Wastewater System Improvements, Groveton, NH – Prepared design plans for the replacement of the existing municipal water, sewer and drainage infrastructure for “The Hill” area in the village of Groveton. Assisted in designing the project to allow for phased construction while maintaining uninterrupted service.

Town of Lincoln, Pleasant Street Roadway and Infrastructure Improvements, Lincoln, NH - Prepared final design plans, technical specifications and contract documents for the project which included replacement of the municipal water, sewer, and drainage infrastructure.

Town of Whitefield, Water System Hydraulic Modeling, Whitefield, NH - Prepared a hydraulic model of the Town’s municipal water system using WaterCAD Version 6.5. Hydrant flow tests and static pressure measurements were taken at key locations throughout the water system to calibrate the hydraulic model. Multiple improvement scenarios were modeled to determine the effects of the improvements on the overall system operation.

Owl Street Associates, Greenscapes Condominium Development, Campton, NH – Designed roadway, drainage infrastructure, erosion control measures, water main, sewer main, sewage pump station, and community subsurface disposal system for the 18 unit condominium development.

Town of Northumberland, Wastewater System Flows Analysis, Northumberland, NH – Analyzed flow monitoring result in key manholes throughout the municipal wastewater collection system to quantify the amount of inflow and infiltration affecting the wastewater treatment plant. Prepared preliminary designs and cost analyses to compare the cost to treat the excessive inflow and infiltration versus the cost to remove it. Prepared a study to summarize findings and recommendations to the Town of Northumberland.

Sharon Geller, Carroll Wetland Delineation, Carroll, NH - Conducted a delineation of the wetlands on approximately 15 acres according to the US Army Corps of Engineers Wetland Delineation Manual. Prepared NH wetland dredge and fill permit application for the proposed driveway to access the residential property.

Shiloh, Inc, Jefferson Campground Commercial Septic Design – Jefferson, NH - Prepared design plans and permit application for the subsurface disposal system to service the proposed campground. The system is designed to accommodate 10,000 gallons per day based on 120 camp sites, a dumping station, central comfort station, and office/activity center.

Owl Street Associates, Sunset Ridge Residential Water System, Campton, NH – Prepared hydraulic model of the Campton Village water system to determine effects of connecting to the proposed private water system. Designed several thousand feet of distribution main and booster pump station to serve hundreds of residential connections. The pumps were sized to meet the maximum day demand plus fire flows at the proposed residential development on sunset hill.

Jon Lane, Shoreland Protection Buffer Restoration, Errol, NH - Prepared plans to restore the shoreland protection buffer along the banks of Aker’s pond. Conducted species data plots in several locations within the woodland buffer to determine the species ratios that naturally

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occurred on the site prior to disturbance. Prepared the initial monitoring of the site and provided monitoring report to the NH Department of Environmental Services.

Northern Acres, Lahout Pines Residential Development, Littleton, NH – Prepared final design plans, technical specifications, and environmental permit applications for the 30 lot residential development. Designed 2,100 feet of water main, pressure reducing valve vault, and 2,000 feet of gravity sewer.

School Administrative Unit - 36, Whitefield Portable Classrooms, Whitefield, NH – Prepared site design, grading and utilities plans for the proposed portable classroom structures at the White Mountains Regional High School Facility.

Baseline Development, Littleton FedEx Distribution Facility, Littleton, NH – Designed site improvements, stormwater management infrastructure, and prepared NHDES alteration of terrain permit application.

School Administrative Unit - 36, Whitefield Athletic Fields, Whitefield, NH – Prepared conceptual layout of proposed athletic fields at the White Mountains Regional High School Facility.

Union Bank, Littleton Branch Site Design, Littleton, NH – Prepared grading, drainage, erosion control plans, preliminary cost estimates, underground stormwater detention system design, technical specifications, and contract documents for the branch bank facility on Dell's Road.

White Mountains School, Williams Dormitory Sewage Pump Station, Bethlehem, NH – Designed and permitted the proposed sewage pump station to service the new dormitory building with an average day flow of 6,000 gallons per day.

Clearbrook Homeowners Assoc., Clearbrook Maintenance Facility, Lincoln, NH – Designed site layout, access road, and subsurface disposal system for the maintenance facility.

Applebee's & Hampton Inn, Drainage Infrastructure, Littleton, NH – Designed and permitted the stormwater management infrastructure including closed drainage, detention basin, and treatment swale to accommodate the increase in runoff from the hotel and restaurant.

Owl Street Associates, Ridge Run Condominium Development, Campton, NH – Designed roadway, drainage infrastructure, erosion control measures, water main, sewer main, and community subsurface disposal system for the 9 unit condominium development.

EDUCATION

Bachelors of Science in Civil Engineering,
Merrimack College, North Andover, Massachusetts, 2001

LICENSES AND REGISTRATIONS

Licensed Professional Engineer:

NH # 11909

VT # 11864

ME # 45956

Licensed Subsurface Disposal System Designer:

NH # 1703

NH Certified Wetland Scientist Apprentice: NH # 031