



## Silas Canavan, EI Civil/Environmental Engineer

### PROFESSIONAL REGISTRATIONS

Engineering Intern:  
VT #017.0003271

### TRAINING

- ▲ 40-hour OSHA 29 CFR 1910.120 HAZWOPER Course
- ▲ 8-hour OSHA 29 CFR 1910.120 HAZWOPER Refresher (April 2010)

### EDUCATION & PROFESSIONAL ACTIVITIES

- ▲ B.S. Civil Engineering, 2005 University of Vermont
- ▲ American Society of Civil Engineers

### HIGHLIGHTS OF EXPERIENCE

Mr. Silas Canavan is a Civil/Environmental Engineer for Credere Associates with over 6 years of professional experience in civil design projects including utility design; local and state project permitting; construction oversight; surveying; hydrologic stormwater modeling; stormwater management; and erosion and sedimentation control as well as environmental engineering including Phase I and Phase II Environmental Site Investigations and cleanup design and oversight.

### CIVIL ENGINEERING PROJECT EXPERIENCE INCLUDES:

#### Civil Engineering

Mr. Canavan has experience with the civil engineering design, permitting, and plan creation of a variety of new development and redevelopment projects in Maine and New Hampshire. Engineering responsibilities have included the layout, grading, and utility design of multiple residential subdivision roads; gas stations; convenience stores; assisted living facilities; university campus expansions; municipal trail systems; municipal sidewalk retro-fits; commercial subdivisions, and demolition plans. Mr. Canavan also has significant experience in local and state project and environmental permitting.

#### Stormwater Management

Mr. Canavan has extensive experience in stormwater management design for projects in Maine and New Hampshire. Stormwater management experience includes the design of stormwater management systems which provide stormwater treatment and peak runoff rate control. Design experience includes structural and non-structural surficial stormwater treatment and detention systems; subsurface stormwater treatment and detention systems; culverts; catch basin systems; catch basin retro-fits; incorporation of proprietary systems; and temporary and permanent erosion and sedimentation control devices. Mr. Canavan is also proficient in the use of stormwater modeling software.

#### Notable Civil Engineering Projects Include:

- *University of New England Campus Expansion:* 60 acre campus expansion including an access road, four residence halls, indoor athletic facility, three outdoor athletic fields, and Maine DEP SLODA permit. Stormwater management included site grading, catch basins system, wetponds, filtration swales, subsurface StormTech systems, and temporary erosion control. Utility design included water main, sewer, gas, and electric line layout.
- *Sheepscott River Assisted Living Facility.* Design included access road, parking lot layout, and utility layout. Stormwater management included catch basin system, filtration swales, subsurface StormTech system, and temporary erosion and sedimentation control.
- *Ridgewood Subdivision:* 63 acre residential subdivision including 6,500 feet of access road. Stormwater management included buffers, filtration swales, buried culvert design, and temporary erosion control.
- *Falmouth Public Safety Building:* Design included access and parking layout, site grading, utility layout, local and Maine DEP permitting.
- *Town of Topsham Sidewalk Improvements:* Sidewalk retro-fit design including layout and stormwater management upgrades.

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- *Nashua Boiler House*: Demolition of 30,000 square foot mill building. Design included demolition of structure, regrading of footprint, temporary erosion control, NHDES Wetlands permit, project specifications.
- *Multiple Hannaford Brothers Facility Expansions*: Designs included demolition of structures, parking lot layouts, site grading, utility layout, catch basin systems, filtration swales, proprietary stormwater systems, temporary erosion and sedimentation control, and updates to Maine DEP permits.
- *Multiple Single Lot Commercial Developments (gas stations, stores, restaurants, banks, etc)*: Designs included access roads, parking lot layouts, surface and subsurface stormwater treatment and detention structures, local and state permitting, and temporary erosion and sedimentation control.
- *Bath Iron Works Shipway Redevelopment*: Responsible for stormwater management including site grading meeting grade requirements for shipbuilding cranes and design of multiple subsurface StormTech stormwater treatment systems.

### **ENVIRONMENTAL PROJECT EXPERIENCE INCLUDES:**

#### **Environmental Site Assessments and Subsurface Investigation**

Mr. Canavan has assisted with multiple Phase I Environmental Site Assessments for a variety of commercial, residential and undeveloped sites in Maine and New Hampshire. His responsibilities include performing Phase I and Phase II site investigations, working with federal, state, and local regulatory agencies as part of the regulatory records review, conducting historical research, implementing hazardous waste inventories, and writing reports that specify environmental liabilities. Phase II investigations included soil and groundwater sampling for chlorinated volatile organic compounds, petroleum products, pollutant metals, PCBs, and pesticides. Investigation activities conducted and supervised by Mr. Canavan have included soil test pitting, boring, and logging; monitoring well installation; geophysical investigations; environmental field screening and sampling of surficial soils, subsurface soils, and groundwater; and data analysis and interpretation. Mr. Canavan is also proficient in presentation of site data, including Computer Aided Drafting (CAD) and graphical work.

#### **Brownfields**

Mr. Canavan has conducted Phase I and Phase II environmental site assessment and investigation activities for USEPA-funded Brownfields sites. Mr. Canavan works closely with Brownfields grant recipients, property owners, developers, and other stakeholders as part of the Brownfields process. Mr. Canavan has worked on Brownfields programs with the Southern Maine Regional Planning Commission, Rockingham Planning Commission, Southern New Hampshire Planning Commission, Greater Portland Council of Governments, Nashua Regional Planning Commission, and Lakes Region Planning Commission.

#### **Representative Brownfields projects include:**

- Fred's Auto Site, Candia, NH
- Former Public Works Garage, Windham, ME
- Main Street Fire Station, Gray, ME
- Tamworth Inn, Tamworth, NH
- Nashua Boiler House, Nashua, NH
- Turchin Estate, Tilton, NH
- Mica Building, Bristol, NH