

## **GARRETT KEEGAN, P.E.**

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Environmental/Civil Engineer

**Education:** Northeastern University, B.A. Biology  
Bridgewater State College, Graduate courses in Biology  
Northeastern University, Graduate courses in CE  
University of Maine, Graduate courses in CE

**Qualifications:**

- Professional Engineer, Maine, (No. 5522)
- Professional Engineer, New Brunswick, (No. L2927)
- Wastewater Treatment Plant Operator Grade 6, Massachusetts, (No. 2190)
- OSHA 29 CFR 1910.120 - 40-Hour HAZWOPER training
- OSHA 29 CFR 1910.120 - 40-Hour 8 hr. Supervisor training
- OSHA 29 CFR 1910.120 – 8 Hour Refresher training

**Experience:** Senior project manager with 32 years experience as an environmental and civil engineer. Coordinated major projects which involved environmental engineering, including industrial wastewater treatment and disposal, the design and construction management of secure landfills, industrial and domestic waste water treatment systems, and the design of bulk petroleum and hazardous materials storage facilities.

Has conducted groundwater investigations and modeling and performed well pumping tests, water quality evaluations and water treatment designs for public water supplies. Conducted investigations of petroleum and hazardous waste groundwater contamination, prepared Spill Prevention, Control and Countermeasures (SPCC) plans and marine spill response plans, conducted ASTM Phase I and Massachusetts MCP environmental site assessments, groundwater remediation treatment designs and monitoring programs for contaminated industrial and commercial sites. Performed storm water studies including river hydrology models, FEMA flood map revisions and designed storm water storage and mitigation facilities. Has performed air pollution emissions inventories and air pollution control design and permitting.

Proficient with AutoCAD, AutoCAD Civil 3D, Eagle Point Civil Design, Microsoft Excel, Access and Project, ArcInfo GIS software, the hydrology programs TR-55, TR-20, HEC-RAS, and SWMM, and the hydrogeology programs AQTESOLV, GMS and MODFLOW.

### **Supplementary Information:**

2007

#### **Green Seal Environmental, Inc.**

- Senior Environmental Engineer for Green Seal Environmental, Inc.
- Responsible for project development and design for civil and environmental projects with a focus on solid waste transfer stations, material recovery facilities, incineration and gasification facilities and landfills.
- Design and evaluation of public water systems development, hazardous waste site remediation and storm water treatment and control.

2002-2007

#### **Prime Engineering, Inc. Lakeville, MA**

- Senior Project Engineer and Project Manager for Prime Engineering, Inc. Responsible for project development, design, permitting and construction management of a variety of civil/environmental projects.

- Engineer responsible for domestic and industrial wastewater treatment and disposal, contaminated soil and groundwater remediation, flood analysis and storm water control design, air pollution control design and permitting, development of groundwater resources and design of water treatment facilities for public water supplies.

**Garrett Keegan, PE - Continued**

Environmental/Civil Engineer

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1999- 2002

**IT Corporation (Now Shaw Group), Andover, MA.**

- Technical Services Lead, supervised a group of 30 environmental engineers, geologists, environmental scientists and administrative personnel xx
- design and construction of a six acre clay/geosynthetic composite liner for a MSW ash landfill xxx
- design of engineered barriers for containment of hazardous waste site contaminated soils under the Mass. Contingency Plan xxx
- Prepared O&M plans and monitoring and maintenance for a hazardous waste landfill gas extraction and treatment system under the EPA Superfund program.

1983-1999

**Civil Engineering Services, Inc., Brewer ME.**

- Vice-President and Partner of CES
- Project manager for all major environmental permitting projects and industrial waste treatment and disposal projects
- Designed secure landfills and landfill closures.
- Designed wastewater treatment for industrial wastes including fruit and vegetable processing, timber products manufacturing, and energy plant and bulk fuel storage facility wastewater
- Managed and developed water quality monitoring systems using computer database programs for several dozen clients including municipal and industrial solid waste and wastewater treatment facilities

1975-1983

**GHR Engineering (Now SAIC Inc.), New Bedford and Lakeville MA**

- Environmental Engineer, designed wastewater treatment for industrial wastes
- Conducted soil investigations and designed subsurface sewage disposal systems for residential subdivisions, shopping centers and commercial buildings

1973-1975

**DEQE (i.e., Department of Environmental Protection), Lakeville MA**

- Microbiologist, managed the environmental laboratory at the Southeastern Regional Office
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