

## **PETER C. MAILEY**

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### EDUCATION

University of Maine – B.S. in Civil Engineering, 1982  
University of Maine – A.S. in Civil Engineering, 1979

### EMPLOYMENT HISTORY

1989 to present – Sevee & Maher Engineers, Inc. – Project Engineer/Field Engineer  
1984 to 1989 – Boston Survey Consultants, Norwell, Massachusetts – Project Engineer  
1983 to 1984 – Oak Point Associates, Biddeford, Maine – Engineer

### EXPERIENCE

Mr. Mailey has over 37 years of experience in the design, permitting, construction oversight, and operation of landfill and environmental projects. As a Project Engineer, Mr. Mailey is responsible for the technical aspects of projects, including detailed design, permitting, construction, and landfill operation assistance.

Assignments in his various areas of expertise have included:

#### Construction Quality Assurance/Quality Control:

Mr. Mailey has performed and managed quality assurance and quality control of 17 landfill cell liner and four final cover system installations at 10 separate landfills in Maine, New Hampshire, and North Carolina. His construction oversight experience includes quality assurance and quality control of geosynthetic component installation of both cell liner and final cover systems including 4 million square feet HDPE geomembrane, 2 million square feet geosynthetic clay liner, 2.5 million square feet of drainage geocomposite and 1 million square feet LLDPE geomembrane.

#### Construction Management:

Mr. Mailey has developed and implemented a project tracking system for five landfill construction projects in Maine. The system provides a means to organize project information including correspondence, daily reports, weekly reports, test reports, contractor submittals, and any other information that documents construction progress. The system enables project managers, reviewing agencies, and other participants to track construction progress on a more real-time basis.

#### Landfill Design and Permitting:

Mr. Mailey has technical design experience on a number of landfill projects (commercial, private, and state-owned).

- Performed detailed hydrogeologic investigations to address siting issues such as odor, noise, visual, and wetland impacts; and completing detailed cell designs and operational plans.
- Provided technical landfill design services and construction quality assurance and quality control oversight at two Maine landfills. In this role Mr. Mailey has been responsible for preparing design drawings and technical specifications for a number of state and local applications for both an

expansion and closure of this facility since 1992. He has extensive experience in construction of new phases and closures of the facility including the development of detailed design drawings, administrative contract documents, and operations manuals;

- Prepared detailed landfill grading plans including cell base liner systems, cell development plans, cell closure plans, waste grading plans and deliverables for GPS automated landfill operations equipment;
- Provided construction quality assurance and quality control of a geomembrane cover system over a mercury-contaminated site at a former papermill in New Hampshire;
- Performed detailed design of landfill liner systems, including leak detection pipe spacing, leachate collection pipe spacing, drainage geocomposite sizing, and pipe strength analysis;
- Performed detailed design of landfill leachate pumping, transport systems and storage facilities at five new cells at three separate landfills including sideslope pump systems, wet well pump systems, force mains, and wastewater storage tank sizing; and
- Provided on-going analysis of landfill utilization rates by performing computer aided cut/fill quantity evaluations at four landfills.

Mr. Mailey's general areas of expertise include:

- Engineering Design – Preparing detailed engineering drawings and construction specifications; permitting projects and systems for state and federal regulators; writing SWPP plans; preparing erosion and sediment control plans; writing annual compliance reports, developing and writing detailed QA/QC plans;
- Civil – Residential and commercial subdivision design, roadway, earthwork, stormwater, erosion control, water utility, and wastewater utility engineering for site development projects;
- Environmental – Solid waste landfills, slurry walls, relocation, and treatment of contaminated soil, operation of a groundwater extraction and treatment system, sighting and installation of groundwater monitoring wells, monitoring and reporting at petroleum spill site; and permitting and environmental compliance;
- Quality Assurance and Quality Control – Developing and writing detailed QA/QC plans for landfill construction projects; monitoring and management of construction projects involving heavy earthwork, light structures, piping, pumping systems, landfill liner and capping systems, and landfill gas systems. Extensive experience in monitoring and managing the installation landfill geosynthetic components; and
- Computer Software – Proficient in AutoCAD; Land Development Desktop; Civil 3D; Carlson Civil; HydroCad stormwater modeling software; Hydrain channel design software; Adobe software; MathCad; Grapher; and web-based tools such as Solmax Drainage Design Manual.