



HALEY WARD

ENGINEERING | ENVIRONMENTAL | SURVEYING

# Solid, Special & Hazardous Waste Management

**Haley Ward offers integrated services that can address client needs throughout the entire solid waste cycle.** Our diverse staff of professional engineers, planners, scientists, and surveyors offers expertise with initial planning and site development, permitting, construction management, operational planning, solid and groundwater monitoring, air emissions monitoring, landfill closures, and site redevelopment. We provide ongoing assistance to 20 Maine Solid Waste Management Facilities that serve over 50 municipalities in the State of Maine. Facilities include Waste Transfer Stations, Beneficial and Agronomical utilization sites, Landfills, Recycling Facilities, and Universal Waste Facilities

## Landfill & Transfer Station Design / Construction

- Facility Siting Studies
- Design of Landfill Cells and Hydraulic Structures
- Liner and Cover Design and Installation
- Alternative Cover Design, Performance Demonstrations
- Landfill Gas Collection Systems
- Leachate Management Systems Eval.
- Erosion Protection/ Stormwater Mgmt.
- Slope Stability Analysis

- Public Hearings/Public Involvement
- Construction Management
- QA/QC Testing and Inspection
- Soils Testing
- Geosynthetics
- Manholes/Concrete
- PVC Pipe/HDPE Pipe

## Operational Services

- Support and Evaluation of Landfill Operations
- Hazardous/Special Waste Handling Plans
- Estimate Remaining Landfill Life

## Representative Clients

- Aroostook Waste Solutions (Presque Isle and Tri-Community Landfills)
- New England Organics (NEO)
- NEO-Hawk Ridge Compost Facility
- KTI Bio Fuels
- Casella Waste Systems, Inc.
- Acadia Disposal District
- City of Lewiston
- Marion Transfer Station, Inc.
- CFWF (Caratunk, Forks & West Forks)
- Lilly Bay and Orneville Townships
- Mid-Maine Solid Waste Facility
- ReEnergy Holdings, LLC
- Republic Services
- Cities of Brewer, Old Town
- Towns of Greenville, Milford, Milo, Oakland, Orono, Otis, Veazie, Glenburn, Baileyville, Greenbush, Dover-Foxcroft
- AIM/ Bucksport Mill Landfill
- Municipal Review Committee
- Irving Forest Products
- Daaquam Lumber Maine
- Coastal Resources of Maine



- Long-Range Planning and Budgeting
- Cost Assessments/Rate Studies
- Operations Manuals
- Training

#### Regulatory Compliance

- Annual MDEP & EPA Compliance Inspections
- Landfill Permitting
- Expansion Plans
- Air Quality Permitting
- Regulatory Agency Negotiations
- Closure Plans
- Solid Waste Management Plans

#### Landfill and Transfer Station Site Investigations

- Soil and Water Sampling, Monitoring
- Soil/Groundwater Remediation Systems
- Vadose Zone Monitoring Systems
- Stormwater Management Evaluation
- Landfill Gas Monitoring



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*Your fine work has made it possible for me to spend a minimum of time and travel expense [on the landfill closure], and to minimize total costs. I am glad that Haley Ward will continue to provide groundwater sampling services and to help with an evaluation of maintenance as needed. It is fun to work with professionals."*

*- Earl L. Hanson, Manager  
Fort James Corporation*