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## KATAHDIN PAPER COMPANY, LLC, DOLBY LANDFILLS (I, II, AND III)

East Millinocket, Maine

### Project Duration

1986 - Present

### Key Sevee & Maher Engineers, Inc. Staff

Kevin Connolly, P.E., Matthew Muzzy, P.E., and  
Brian Johnson, P.E.

### References

Bruce Albert 207.723.2530

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## OVERVIEW

The Dolby Landfills have received waste products produced by the Katahdin Paper Company (KPC) mill (formerly Great Northern Paper) since the early 1970s, and Sevee & Maher Engineers, Inc. (SME) has been the consulting engineer for the landfills since 1986. The facility consists of three separate permitted above-grade landfills, where primary and secondary sludge and other mill wastes have been disposed of.

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## ACCOMPLISHMENTS

- SME staff have been involved at the Dolby Landfill since 1986, and have developed an intimate understanding of facility operations, which helps to anticipate issues while minimizing operational costs and the need for major unanticipated capital projects.
- SME's geotechnical laboratory has tested construction materials and waste streams at the facility over the years and understands how those properties affect development. On-going testing is used to optimize waste placement techniques, locations, and processing requirements throughout the year as mill waste stream characteristics and proportions change.
- Stability of the landfill, as it increases vertically is complicated by material characteristics, drainage, and settlement due to loading and waste degradation. Field investigations have corroborated laboratory data and are routinely used to evaluate transient stability of the landfills to maintain operations.
- SME has developed and designed plans for each landfill cell and closure of the cells to optimize and maintain landfill operational conditions. Quality assurance and quality control measures are implemented during the construction of each cell and the cell closure to assure the design objectives are met.



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- SME has developed and designed plans for a leachate pond upgrade that minimizes leachate generation and minimizes the risk of leachate spills to the environment. The leachate pond upgrade included the use of composite liner systems and geosynthetics materials to replace failing aged components.
- SME provides annual landfill operator training, annual landfill inspections, technical support, landfill permitting assistance, and completes annual reports to detail each operational year at the landfill to assure regulatory compliance.
- SME provides and updates a detailed landfill operations manual to guide the placement of waste, site monitoring, and routine maintenance of the site.

