

STATE OF MAINE
BOARD OF ENVIRONMENTAL PROTECTION



James W. Parker, Chair

Cynthia S. Bertocci
Executive Analyst

Ruth Ann Burke
Board Clerk

January 13, 2017

Senator Thomas B. Saviello
Representative Ralph L. Tucker
Members of the Joint Standing Committee on Environment and Natural Resources
100 State House Station
Augusta, Maine 04333-0100

RE: Board of Environmental Protection
Summary of Activities in Calendar Year 2016

Dear Senator Saviello, Representative Tucker, Committee Members:

The Board's report to the Joint Standing Committee on Environment and Natural Resources pursuant to 38 M.R.S. § 341-D(7) is attached for your consideration. The report summarizes the Board's activities in 2016. As discussed in the report, the Board is submitting provisionally adopted *Chapter 200 Metallic Mineral Exploration, Advanced Exploration and Mining* to the Committee for its consideration this session. In response to comments received during the Chapter 200 rulemaking, the Board has made recommendations regarding amendments to Maine's metallic mineral mining laws. These recommendations are being forwarded to the Committee with the provisionally adopted rule.

This report also includes a recommendation regarding the State's solid waste management statutes and, in particular, that the Legislature revisit the definition of "waste generated within the State."

If the Committee would like to discuss this report and the Board's recommendations, I am available to meet with you at your convenience. I can be reached by contacting the Board's Executive Analyst, Cynthia Bertocci, at 287-2452 or cynthia.s.bertocci@maine.gov.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read 'James W. Parker', is written over a light blue horizontal line.

James W. Parker, Chair
Board of Environmental Protection

cc: Paul Mercer, DEP Commissioner

Report to the Joint Standing Committee on Environment and Natural Resources

Board of Environmental Protection Summary of Activities in Calendar Year 2016 and Recommendations for Committee Consideration

January 2017

Contact: Cynthia Bertocci, Board Executive Analyst
Phone: (207) 287-2452



MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
17 State House Station | Augusta, Maine 04333-0017
www.maine.gov/dep

**Report to the Joint Standing Committee on
Environment and Natural Resources**

Summary of Activities in 2016 and Recommendations for Committee Consideration

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- A. Board of Environmental Protection Members

Board of Environmental Protection Report to the Joint Standing Committee on Environment and Natural Resources

Summary of Activities in Calendar Year 2016 and Recommendations for Committee Consideration

I. Introduction

Title 38 § 341-D(7) requires the Board of Environmental Protection to report to the joint standing committee having jurisdiction over natural resource matters by January 15 of the first regular session of each Legislature on the “effectiveness of the environmental laws of the State and any recommendations for amending those laws or the laws governing the board.” This report is submitted in fulfillment of that requirement. This report summarizes the matters considered by the Board in 2016, including the Board’s work on proposed *Chapter 200 Metallic Mineral Exploration, Advanced Exploration and Mining* and its review of the proposal to expand the State-owned Juniper Ridge Landfill.

II. Board Membership and Responsibilities

The Board of Environmental Protection is a citizen board whose members are appointed by the Governor and approved by the Legislature. (38 M.R.S. § 341-C). Its purpose is to “provide informed, independent and timely decisions on the interpretation, administration and enforcement of the laws relating to environmental protection and to provide for credible, fair and responsible public participation in department decisions.” (38 M.R.S. § 341-B). Biographical information on the current Board members is found in Attachment A.

The Board’s responsibilities as set forth in 38 M.R.S. § 341-D include:

- Major Substantive Rulemaking: The Board holds public hearings on, and provisionally adopts, major substantive rules of the Department for consideration by the Legislature.
- Decisions on Certain Permit Applications: The Board makes the original licensing decision on applications for projects of statewide significance as defined in statute. Additionally, the Department’s statutes specify that certain applications such as those pertaining to commercial hazardous waste facilities must be reviewed and decided by the Board.
- Appeals of Commissioner Licensing and Enforcement Actions: An aggrieved person may appeal a final license or permit decision of the Commissioner to the Board. The Board also hears appeals of emergency orders issued by the Commissioner.
- License Modification or Corrective Action: At the request of the Commissioner and after written notice and opportunity for hearing, the Board may modify in whole or in part any license, or issue an order prescribing necessary corrective action, when it finds that certain criteria set forth in statute are met.
- Recommendations to the Legislature: The Board is charged with making recommendations to the Legislature on the implementation of environmental laws.

Proceedings before the Board are governed by the Maine Administrative Procedure Act, the Board's procedural statutes and rules governing the various types of proceedings (e.g., rulemaking, appeal proceedings, etc.), and by program-specific statutes and rules governing matters such as the control of air emissions, waste management, and land use. All meetings of the Board are noticed and open to the public. The Board maintains a webpage with biographical information on Board members, meeting materials, information on pending matters of broad public interest, and guidance to facilitate public participation in matters pending before the Board. In 2016, the Board began audio-streaming of Board meetings and hearings.

III. Summary of Matters before the Board in 2016 and Associated Recommendations

The Board held 9 regular meetings in 2016. Matters considered by the Board are summarized below. The two most challenging undertakings were the Chapter 200 rulemaking for metallic mineral mining and consideration of the application for expansion of the Juniper Ridge Landfill located in Old Town and Alton. These matters are addressed below in Section III.A and Section III.B, respectively.

A. Major Substantive Rules

In accordance with 38 M.R.S. § 341-H(1), the Board shall “adopt, amend or repeal only those rules of the department designated as major substantive rules pursuant to Title 5, chapter 375, subchapter 2-A. The board shall also adopt, amend and repeal routine technical rules as necessary for the conduct of the board's business, including the processing of applications, the conduct of hearings and other administrative matters.” The Commissioner has the authority to adopt, amend or repeal routine technical rules (38 M.R.S. § 341-H(2)).

Major Substantive Rules: Provisional Adoption.

- Chapter 200 Metallic Mineral Exploration, Advanced Exploration and Mining. This provisionally adopted rule has been submitted to the Legislative Council pursuant to 5 M.R.S. § 8072 for your consideration this session.

Background. In 2012, the Legislature enacted Public Law 2011, Chapter 653, *An Act to Improve Environmental Oversight and Streamline Permitting for Metallic Mineral Mining in Maine*. The law directed the Department to provisionally adopt rules to implement the act and to submit the rules to the Legislature for review by January 10, 2014. Department staff subsequently drafted rules for the Board's consideration, and a provisionally adopted rule was submitted to the Legislature in January 2014. The Legislature did not authorize final adoption. The provisionally adopted rule was resubmitted in 2015 and, again, the Legislature did not authorize final adoption.

2016 Rulemaking Proceeding. In August 2016, the Department submitted a revised rule to the Board for consideration. The revised rule was based on the 2014 provisionally adopted rule, but incorporated revisions to address a number of environmental, technical, and legal concerns expressed by Legislators, Board members, and the interested public during the prior Board rulemaking proceedings and in Legislative hearings and work sessions.

The Board held a public hearing on the proposed rule on September 15, 2016. The Board heard testimony from 28 persons during the approximately 5 hour hearing, and received approximately 500 written comments on the proposed rule.

Following close of the written comment period, the Board held deliberative sessions on October 6, 2016 and November 3, 2016. On November 3rd, the Board voted to post a number of changes to the draft rule for the purpose of receiving additional public comment pursuant to 5 M.R.S. § 8052(5)(B). The second written comment period closed on December 16, 2016.

The rule was further modified in response to comments received during this second comment period, and a revised draft rule was provisionally adopted on January 5, 2017.

Recommendation. During the rulemaking process, many of the public's concerns regarding the adequacy of environmental protections in the proposed, now provisionally adopted, rule were directly related to provisions in the Maine Metallic Mineral Mining Act (Mining Act). The Board was limited in its ability to resolve these concerns within the scope of the Board's rulemaking authority. The Board has proposed several recommendations for changes to the statutes governing metallic mineral mining. These recommendations are set forth in a memorandum to the Committee that has been submitted with the provisionally adopted rule.

Major Substantive Rules Finally Adopted in 2016. The Board finally adopted amendments to the following major substantive rules as approved by the Legislature:

- Chapter 373 Financial Capacity Standard of the Site Location Law / Amendments. The amendments updated the requirements for financial capacity and technical ability to reflect changes in terminology and Department practice and provide greater clarity as to how an applicant may satisfy the requirements. Provisions addressing certain environmental standards including solid waste management and provision of water supplies were relocated to Chapter 375.
- Chapter 375 No Adverse Environmental Effect Standard of the Site Location Law / Amendments. Provisions pertaining to solid waste management control of odors, and procurement and maintenance of sufficient and healthful water supplies were relocated from Chapter 373 to Chapter 375.
- Chapter 380 Long-Term Construction Projects (Site Law) / Repeal and Replace. The rule describes requirements for long-term construction projects under the Site Location of Development Law. Long-term construction projects are those projects authorized by an individual permit or amendment that are not anticipated to be substantially completed, or are not substantially completed, within ten years from the date of approval. Long-term construction projects may include, by way of example, large-scale mixed-use developments, airports, and ski resorts.

B. Permit and License Applications

Statute (38 M.R.S. § 341-D(2)) provides that the Board shall decide each application for approval of permits and licenses that in its judgment represents a project of statewide significance. A project of statewide significance is defined as a project which meets at least three of the four following criteria:

- Will have an environmental or economic impact in more than one municipality, territory or county;
- Involves an activity not previously permitted or licensed in the State;
- Is likely to come under significant public scrutiny; and
- Is located in more than one municipality, territory or county.

Statute also provides that the Board shall decide all applications for commercial hazardous waste facilities (38 M.R.S. § 1319-R(3)).

Major applications considered by the Board in 2016 are summarized below.

- Juniper Ridge Landfill Expansion, Old Town and Alton. In July 2015, the Department received an application from the State of Maine, Bureau of General Services (owner of the Juniper Ridge Landfill) for a 9.35 million cubic yard expansion of the Juniper Ridge Landfill. Following review of the application, former Commissioner Aho made a preliminary determination that the project was one of statewide significance and referred the application to the Board for licensing jurisdiction. The Board assumed licensing jurisdiction at its meeting on September 17, 2015, and subsequently posted notice of the opportunity to intervene in the licensing proceeding. Requests to intervene were granted to Edward Spencer of Old Town, Dana Snowman of Old Town, abutting landowner SSR, LLC, and abutting landowner Jesse Pekkala. Mr. Pekkala subsequently withdrew. Additionally, the City of Old Town had intervenor status in the proceeding by right pursuant to 38 M.R.S. § 1310-S(3). The Board subsequently held several pre-hearing conferences with the applicant and intervenors. The hearing was postponed until the fall of 2016 to allow time for Department staff to review the lengthy application, and for the City (which received financial assistance pursuant to 38 M.R.S. § 1310-S(4)) to hire a consultant to review the application and otherwise assist the City in its review of the application.

A two day public hearing was held in Bangor on October 18 and 19, 2016. Major issues at the hearing included concerns about potential impacts to groundwater, surface water, and wetlands; the nature and origin of wastes accepted at the landfill; the need to conserve landfill space; and compliance with the solid waste management hierarchy. Post-hearing briefs were filed on November 23, 2016 and the Board held a deliberative session on December 15, 2016. A decision on the license application is expected in early 2017.

Recommendation. Since the Juniper Ridge Landfill Expansion licensing proceeding is pending, the Board is limited in its ability to make recommendations at this time. The Board notes, however, that there is ongoing public concern over the nature and origin of wastes disposed of at the Juniper Ridge Landfill and, in particular, the origin and amount of

oversized bulky waste disposed of at the landfill. A number of persons testifying expressed a desire to conserve landfill space and limit future expansions of Juniper Ridge.

With respect to the origin of wastes, the Board found widespread disagreement regarding the statutory definition of “waste generated within the State” which is defined as including “residue and bypass generated by incineration, processing and recycling facilities within the State or waste, whether generated within the State or outside of the State, if it is used for daily cover, frost protection or stability or is generated within 30 miles of the solid waste disposal facility (38 M.R.S. § 1310-N(11)). The Board requests that the Legislature revisit this definition.

- Central Maine Power Company, Interim Hazardous Waste Storage Facility Closure Plans: Brunswick #O-00106-HH-A-N, Lewiston #O-00116-HH-A-N, Pittsfield #O-00108-HH-A-N, and Portland #O-00113-HH-A-N. At the time the Hazardous Waste Management Rules were enacted in 1983, existing facilities were required to obtain an interim license. These facilities were then required to either obtain a full license or complete closure in accordance with the rules. Central Maine Power had 21 interim hazardous waste storage facility licenses for the storage of polychlorinated biphenyls (PCBs). CMP has been working with the Department to close these facilities. The closure plans for Brunswick, Lewiston, Pittsfield and Portland were the last four of CMP’s interim hazardous waste storage facilities requiring closure. The Board approved the Closure Plans for these facilities at its meeting on August 18, 2016.

C. Appeals of Commissioner Licensing Decisions

If an applicant or other person is aggrieved by a licensing decision of the Commissioner, the Commissioner’s decision may be appealed to the Board. Under provisions of 38 M.R.S. §341-D(4), the Board may affirm, amend, or reverse the Commissioner’s decision, or remand the matter to the Commissioner for further proceedings. In an appeal proceeding, the Board is not bound by the Commissioner’s findings of fact or conclusions of law. Except in limited circumstances set forth in rule, the record for appeals heard by the Board is limited to the administrative record prepared by the Department in its review of the application. The Board processes appeals in accordance with the Department’s procedural rules, the requirements of the Maine Administrative Procedure Act, and program specific statutes and rules. The Board’s decision on appeal may be appealed to Superior Court (or the Law Court in the case of an expedited wind energy development). Appeals of Commissioner licensing decisions considered by the Board in 2016 are summarized below.

Appeals Resolved. The following appeals were resolved:

- S.D. Warren Company, Eel Weir Hydropower Project. Appeals by S. D. Warren and by Friends of Sebago Lake and Douglas H. Watts. The appeals addressed the terms of a special condition of the Water Quality Certification (WQC) for the Eel Weir Hydropower Project located at the outlet of Sebago Lake. The condition required the installation of upstream eel passage within two years following issuance of a new federal license for the project. Warren requested, and the Department issued an order granting, a time extension

for installation and operation of upstream eel passage. Warren and interested persons Friends of Sebago Lake and Douglas Watts subsequently filed appeals of the Department Order, both objecting to the terms of the time extension, but for different reasons. The appellants requested that the Board stay consideration of their appeals while they engaged in alternative dispute resolution. The appellants ultimately requested that the Board vacate the Department Order granting the time extension and remand the matter to the Commissioner. On August 18, 2016, at the request of the appellants and the Department, the Board vacated the Department Order and remanded to the Commissioner S.D. Warren's application for time extension. Warren subsequently withdrew its application for time extension and the condition for upstream eel passage reverted to the condition as originally set forth in the WQC for the Project

- Walsh Family Trust, Residential Pier, Falmouth. Appeal by Marjorie Getz and David Tourangeau. The applicants were issued a Natural Resources Protection Act (NRPA) permit to expand their existing residential pier for the purpose of providing greater water access during periods of extremely low tides. The appellants, who are abutting property owners, objected to a number of the Department's findings including those pertaining to potential impacts to tidal waterfowl and wading bird habitat, ospreys, great blue herons, harbor seals, clam habitat and eelgrass beds. Following oral argument on November 3, 2016, the Board denied the appeal and request for public hearing and affirmed the Commissioner's decision approving the pier extension.

Appeals Pending. There were five appeals pending at year's end.

- Hunnewell Beach Trust and Surf Street, LLC, Phippsburg. Appeal by Bennett Family Trust of Coastal Sand Dune Permits L-09184-4H-B-N and L-09184-FS-C-N which approved a walking path through the frontal dune. The primary issue on appeal was the location of the walking path and its relationship to existing rights of way. Subsequent to the filing of the appeal, the parties (licensee and appellant) requested that the Board stay consideration of the appeal so that they could engage in alternative dispute resolution. The Board Chair granted that request in accordance with the Department's *Rule Concerning the Processing of Applications and Other Administrative Matters*, 06-096 C.M.R. Ch. 2, § 24(E).
- Mount Desert Land & Garden Preserve, Mount Desert. Appeal of Mount Desert Land & Garden Preserve of the Department's Natural Resources Protection Act Condition Compliance Order #L-23297-TE-B-C regarding the installation of fish passage. The licensee, who is also the appellant, objected to a finding that the Preserve agreed to notch the upper pond outlet structure to allow fish passage after the road culvert is upgraded by the Maine Department of Transportation. Processing of the appeal has been stayed while Department staff discusses additional options with the licensee.
- Natural Resources Protection Act Permit-by-Rule (PBR #62773) issued to Francis Mack, Saco. Appeal by George Roth. The appeal pertains to clearing (by the licensee) in an easement located on the appellant's property for the purpose of developing a walking path to the beach. The appeal was filed on November 10, 2016 and is pending.

- Long Beach, LLC and Samuel and Jan Minervino, Sebago. Appeal by William Harrop, III of a Natural Resources Protection Act permit for removal of an existing boat launch and construction of a new boat launch and dock at an existing marina on Sebago Lake. The appeal was filed on November 23, 2016 and is pending.
- Coastal Maine Botanical Gardens, Inc., Boothbay and Boothbay Harbor. Appeal by the Anthony Family of Site Location of Development and Natural Resources Protection Act permits issued for Phase I of the facility's 2015-2035 Master Plan. Phase I will include, among other things, a 22,200 square foot conservatory, re-construction of 2,025 linear feet of road, conversion of the existing visitor center to a restaurant, creation of a new visitor center and gift shop, construction of a 16,000 square foot horticulture production and research facility, expansion of an existing education center, additional parking areas, two additional seasonal floats, several additional trails, formal gardens and associated structures and utilities. The appeal was filed on November 28, 2016 and is pending.

D. Petitions to Modify a License or Order Corrective Action

The petition process is a mechanism to re-open a final license that was issued by the Department if certain conditions are found to exist. There were no such petitions referred to the Board by the Commissioner in 2016.

E. Appeal of Administrative Orders Issued by the Commissioner

A number of the Department's program-specific statutes provide for appeals to the Board of a Commissioner's Administrative Order, such as an order to remediate a site contaminated by oil or hazardous substances. These are unilateral orders through which the Commissioner seeks to correct serious environmental conditions. Due process is afforded through the right of appeal to the Board, and then Superior Court. There were no appeals of Commissioner administrative orders in 2016.

IV. Informational Sessions

The Board held three informational sessions for members and the interested public in 2016.

- Composting: Department staff member Mark King presented an overview of the State's composting program at the April 4, 2016 Board meeting. He discussed the benefits of composting organic wastes, the conditions necessary for effective composting, various mechanisms of composting, and the Department's efforts to increase composting and thereby decrease the volume of organic wastes being landfilled. Staff noted that the Department holds seminars on composting and is working to promote on-site school and backyard composting and the development of consolidated collection centers. The Department is also working with the agricultural sector to safely compost animal remains and other organic materials.
- Maine Ambient Air Quality Standards. Department staff member Andrew Johnson reviewed the state's ambient air quality monitoring program at the Board's May 19, 2016

meeting. He discussed the program's monitoring objectives, the National Ambient Air Quality Standards for the six criteria pollutants (particulate matter, ozone, sulfur dioxide, nitrogen dioxide, carbon monoxide, and lead) including their significance and trends in the concentration of these pollutants over time. He also discussed the National Atmospheric Deposition Program with a focus on mercury, EPA's Regional Haze Rule, and the Department's air quality forecasting program.

- Review of Board Procedures. At its meeting on January 21, 2016, Board members reviewed a number of procedural matters pertaining to the conduct of Board meetings, Board consideration of staff recommendation, and the processing of requests for Board jurisdiction. The Board subsequently updated its guidance documents on these procedural matters.

V. Closing Observations

As noted above, the major matters before the Board in 2016 were metallic mineral mining and the proposed expansion of the Juniper Ridge Landfill. In both instances, the public hearings were well attended with many persons testifying at the hearing as well as providing written comment for Board consideration. These hearings, as well as all Board meetings beginning in July, were audio-streamed, increasing the ability of the interested public to follow, and comment upon, the Board's work.

With respect to appeals of Commissioner licensing decisions, the wind energy developments which have dominated appeal proceedings in recent years were noticeably absent in 2016; five of the seven appeals filed in 2016 were of Natural Resources Protection Act permits for comparatively small-scale development on residential or other non-commercial property. Parties to appeal proceedings are also continuing to pursue various forms of alternative dispute resolution in an effort to reach a resolution that is satisfactory to all parties (licensee and appellants). The S.D. Warren Eel Weir Hydropower Project appeals were resolved through alternative dispute resolution; in the case of the Hunnewell Beach Trust et al. appeal, negotiations are on-going. The Board supports alternative dispute resolution by staying its proceedings to allow time for productive negotiations.

I would be happy to respond to any questions Committee members may have regarding the Board's work.

Respectfully submitted,



James W. Parker, Chair
Board of Environmental Protection

Attachments:

A. Board of Environmental Protection Members: Biographical Information

Attachment A: Board of Environmental Protection Members



James W. Parker, Chair
Veazie, 1st Term

Mr. Parker is a professional engineer and former State Representative for District 18. Mr. Parker served in the 125th Legislature and was a member of the Joint Standing Committee on Environment and Natural Resources and the Special Select Committee for Regulatory Fairness and Reform. Mr. Parker graduated from the University of Maine with a degree in civil engineering. Following employment with James W. Sewall Company, he founded Civil Engineering Services, Inc. (CES, Inc.), an engineering consulting firm providing services in a variety of areas including water supply, wastewater, solid and hazardous waste management, and site development. Mr. Parker retired from the firm in 2009, and now spends summers as a charter captain for whale and sightseeing tours on the downeast coast. Mr. Parker was appointed to the Board by Governor Paul R. LePage in June 2013. Governor LePage appointed Mr. Parker Board Chair in December 2014.



Alvin K. Ahlers
North Yarmouth,
1st Term

Mr. Ahlers is a retired Registered Professional Engineer. He served as Environmental Manager for Fairchild Semiconductor Corporation in South Portland from 1993 to 2004 where he was responsible for managing environmental compliance for the facility and was an active member of Maine DEP's Environmental Leadership program for Fairchild. Prior to joining Fairchild, Mr. Ahlers was employed by ABB Environmental Services (formerly E.C. Jordan Co.) of Portland. Since retiring he has been active in town government, currently serving on the Town of North Yarmouth Budget Committee and on the town's Economic and Sustainability Committee. He was appointed to the Board by Governor Paul R. LePage in September 2011.



Kathleen Chase
Wells, 1st Term

Ms. Chase is co-owner and Vice President of Chase & Hamlyn Mineral Extraction, which she founded with her husband in 1986. Ms. Chase also has extensive municipal experience, having served as Tax Assessor for the Town of Wells for 18 years. She was elected to the Maine State Legislature in 2006, where she served four terms, completing her service in December 2014. During her tenure Ms. Chase served on the Joint Standing Committee on Taxation and the Appropriations and Financial Affairs Committee. She has been an active member of numerous professional and community organizations including the Wells Chamber of Commerce, Maine Aggregate Association, Wells Rotary Club, Past President and Founder of the Senior Needs Committee of Wells and Ogunquit, and President of Applause for a Cause Theatre Troupe. Ms. Chase was appointed to the Board by Governor Paul R. LePage in April 2016.



Thomas W. Dobbins
Scarborough, 1st Term

Mr. Dobbins began his professional career with the Coast Guard, inspecting U.S. and foreign vessels for compliance with federal environmental and safety laws and regulations. Mr. Dobbins joined Getty Petroleum in 1989 and Sprague Energy in 1995, managing their deep water petroleum storage facility in South Portland from 1989 to 2007. Mr. Dobbins continues to assist Sprague Energy managing their Port Security Grants. Mr. Dobbins holds a USCG 100 ton Masters License, and currently serves on the Maine State Pilot Commission, the Portland Harbor Commission, and the Portland Harbor Dredge Committee. He is a member of the Friends of Casco Bay and a past member and director of Clean Casco Bay. He was appointed to the Board by Governor Paul R. LePage in March 2014.



Mark C. Draper
Caribou, 1st Term

Mr. Draper is the Solid Waste Director for Tri-Community Recycling and Sanitary Landfill in Fort Fairfield, a position he has held since 2003. Before joining Tri-Community, Mr. Draper was a Senior Environmental Engineer at the Champion International Corporation/International Paper mill in Bucksport where he was responsible for oversight of the mill's landfill operation, waste reduction and recycling activities, and hazardous waste management. Mr. Draper also served as plant engineer for the mill's 290-MW co-generation power plant from 2001-2003. Mr. Draper is currently the president of the Maine Resource Recovery Association and Chairman of the Northern Maine Solid Waste Management Committee. He was appointed to the Board by Governor Paul R. LePage in October 2014.



Thomas E. Eastler
Farmington, 2nd Term

Dr. Eastler is a Professor Emeritus of Environmental Geology at the University of Maine Farmington. He obtained his undergraduate degree from Brown University and his masters and doctorate degrees in Geology from Columbia University. His research interests include terrain analysis, remote sensing, and fuel and non-fuel mineral resource depletion. Dr. Eastler has devoted much of his professional career to teaching and has mentored many aspiring geologists. Dr. Eastler has also served as a consultant to a number of entities including Lawrence Livermore Laboratories in California and Raytheon UTD in Virginia. He is a Fellow of the American Association for the Advancement of Science and the Geological Society of America (GSA). Dr. Eastler is a retired Colonel U. S. Air Force Reserves with 30 years of service. He was appointed to the Board by Governor Paul R. LePage in April 2012 and re-appointed for a second term in February 2014.



Jonathan B. Mapes
Sanford, 1st Term

Mr. Mapes is the President and Owner of H. A. Mapes Inc., a petroleum distribution and management company located in Springvale, Maine. Mr. Mapes has extensive knowledge regarding the regulation and safe handling of petroleum products and is a certified tank installer. He is a member of the Maine Energy Marketers Association and the Society of Independent Gasoline Marketers of America. Mr. Mapes has been active in his community serving on the Sanford Charter Commission, as chairman of the Sanford School Committee, member and past board of directors member of the Sanford Chamber of Commerce, member and past president of the area Kiwanis, and member and past president of the Sanford area YMCA. He was appointed to the Board by Governor Paul R. LePage in November 2015.
