



EBC Dam Management Webinar
Stepping over the Line – The Reality of Dam Ownership, Jurisdiction, and Access

Tuesday, June 13, 2023

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Program Chairs

Chad Cox, Senior Principal, GZA GeoEnvironmental, Inc.
Christopher Haker, Vice President, Tighe & Bond

AGENDA

- 9:00 a.m. **Welcome**
- Chad Sumner, Chair, EBC Dam Management Committee
Principal and Co-founder, SumCo Eco-Contracting, LLC
- Program Introduction and Purpose – What you will learn**
- Chad Cox, Program Co-Chair
Senior Principal, GZA GeoEnvironmental, Inc.
- 9:20 a.m. **Surveyor Perspectives on Defining Property Lines and Easements**
- David Prince, PLS, Vice President, Survey Services, WSP USA, Inc.
- 9:40 a.m. **Legal Issues in Dam Ownership and Removal: Guidance for Massachusetts Dam Owners**
- Rex Gamble, EIT, Engineer I, GZA GeoEnvironmental, Inc.
- 10:00 a.m. **Networking Opportunity**

10:15 a.m. Break

10:20 a.m. A Lawyer's Perspective on Property Issues for Dam Repair and Removal Projects

- Brent McDonald, Esq., Of Counsel, Nutter McClennen & Fish LLP

10:40 a.m. All Work and No Say: A Case Study in Ownership

- Daniel Buttrick, PE, Senior Project Manager, Tighe & Bond

11:00 a.m. Moderated Discussion

Moderator: Andrea Judge, Senior Project Engineer, Fuss & O'Neill, Inc.

Panel Members:

- Daniel Buttrick, Tighe & Bond
- Rex Gamble, GZA GeoEnvironmental, Inc.
- Brent McDonald, Nutter McClennen & Fish LLP
- David Prince, WSP USA, Inc.

11:30 a.m. Adjourn

PROGRAM CHAIRS

Chad Cox, Senior Principal
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Chad Cox joined GZA in 1998 as a staff engineer and is now a Senior Principal and Senior Vice President. In 2018, he was elected to his second term on the Company's Board of Directors. Chad was selected by the Board to be the Managing Director for 2019-2020.

Chad is the District Office Manager of GZA's largest operations center, the Metro-Boston Office, which includes staff in four eastern Massachusetts locations: Norwood, downtown Boston, the south shore (Hingham), and the north shore (Amesbury). In his technical practice, Chad is a past leader of Dams Practice Group and is head of the Small Hydropower Initiative. His areas of specialization include dam safety and design, hydroelectric engineering, water resources engineering and geotechnical engineering.

He holds a B.S.E. in Civil Engineering/Water Resources from Princeton University and an M.Eng in Civil and Environmental Engineering from the Massachusetts Institute of Technology. He is a registered Professional Engineer in the Commonwealth of Massachusetts and has contributed to numerous industry publications.

Earlier in his career he also served in Nepal with the U.S. Peace Corps as a water supply engineer.

Christopher Haker, Vice President
Tighe & Bond
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Chris Haker is a Vice President with almost three decades of experience in geotechnical and dam engineering analysis and design. He has performed these services for commercial and industrial building foundations, and permanent retaining wall structures. This includes municipal infrastructure projects such as water and wastewater treatment plants, water tanks, pump stations, roadway embankments, and bridges.

An expert in dam engineering, Chris also performs inspections, design, and construction phase services for complete dam rehabilitations and re-construction. He has managed the inspection and rehabilitation of a multitude of concrete, stone masonry, and earth embankment dams throughout the Northeast. This includes multiple dam projects for the Massachusetts Department of Conservation and Recreation and regional water companies throughout New England.

Chris enjoys fishing and playing softball and orchestrating the Worcester office's annual charity chili cook-off. Chris enjoys watching his children's various sports teams, spending time with family and friends, and traveling.

DISCUSSION MODERATOR

Andrea Judge, P.E., Project Manager
Fuss & O'Neill, Inc.
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Andrea Judge, PE leads a team of water resource and geotechnical engineers as a Project Manager at Fuss & O'Neill, a multi-disciplinary consulting engineering firm with offices throughout all six New England states. Andrea is a civil engineer with 15 years of experience in a variety of multi-disciplinary projects involving river and coastal flood resilience, geotechnical engineering, assessment, design, permitting, and construction of dam repair and river restoration projects in New England. Andrea earned a Bachelor of Engineering from Concordia University in Montreal, Quebec and is pursuing a Graduate Certificate in River Science and Engineering from Tulane University. Andrea is a member of the EBC Dam Management Committee and a licensed professional engineer in the Commonwealth of Massachusetts.

SPEAKERS

Daniel R. Buttrick, PE, Senior Project Manager
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Daniel Buttrick is a civil engineer with 18 years of experience extending to a wide variety of water resources projects, including dam investigation, repair, maintenance, and rehabilitation; dam removal and river restoration; dredging; pipeline design, fish ladder design, watershed planning; stormwater design, and environmental permitting. He has Bachelor and Master of Science degrees in Civil and Environmental Engineering from the University of Massachusetts, Amherst, and has been a member of his local Conservation Commission for 16 years. In his spare time Dan loves to run and bicycle. He went through a boatbuilding hobby phase but now spends his spare time watching his children's sports activities, which is OK since he ran out of places to store boats.

Rex Gamble, EIT, Engineer I
GZA GeoEnvironmental, Inc.
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Rex Gamble is a Water Resources Engineer in the Dams and Water Resources Group out of GZA's Metro-Boston Office. He joined GZA in June 2021 with a master's degree in biological system engineering from Virginia Tech where he researched and studied stream restoration / dam removal, fluvial geomorphology, and sediment transport. His master's thesis tracked the evolution of bank stabilization crediting for the Chesapeake Bay and reviewed its effectiveness in decreasing bank sediment inputs. The majority of his work at GZA is based in hydrologic and hydraulic analysis where he has applied a wide range of tools from R and Python code to CFD models.

Brent McDonald, Esq., Of Counsel
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Brent McDonald is of counsel in Nutter McClennen & Fish LLP's Real Estate Department and a member of the Environmental and Development, Land Use and Permitting groups. He has extensive experience with local zoning and subdivision matters, state environmental impact reports, sewage and wastewater discharge permits, wetlands and waterways licensing, sustainability requirements, evaluation of brownfields and hazardous waste matters, and due diligence for real estate and other business transactions. Brent has worked on dam removal and dam restoration projects in Massachusetts and Connecticut, including the representation of dam owners in all aspects of federal, state and local permitting for the removal of a dam and the negotiation of disputes with abutting property owners. Brent earned a J.D. from Boston University and a B.A. from Boston College.

David Prince, PLS, Vice President Survey Services
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David is the New England Survey Manager for WSP USA Inc. and has over 30 years' experience within the Land Surveying profession. David resides in the Merrimack, NH office for WSP but oversees a survey staff of 35+ people who reside also in our offices of Boston, MA, Worcester, MA, & Glastonbury, CT. David received his Associates Degree in Land Surveying from Paul Smith's College and his Bachelors Degree in Survey Engineering from Ferris State University. Upon graduation from Ferris State, David spent four years in Louisiana working for a Hydrographic Survey Company (C&C Technologies) doing mostly hydrographic survey projects for the oil and gas industry. David moved back to the Northeast joining a small survey company which through multiple acquisitions, has now landed with WSP.

David is a multi-state licensed land surveyor who was part of a committee who helped create Laser Scanning Standards for MALSCE. David also currently holds the chair position for MALSCE Public Awareness Committee to help bring awareness to the Land Surveying Profession.