

EDUCATION

Ph.D., Civil- Water Resources Engineering, UNH, Durham, NH, 2002
M.S., Environmental Science and Engineering, Colorado School of Mines, Golden, CO, 1998

PROFESSIONAL EXPERIENCE

Waterstone Engineering, Owner, Stratham, NH, 2016-Present
Horsley Witten Group, Practice Leader, Newburyport, MA, 2015- 2016
Geosyntec Consultants, Inc., Associate, Acton, MA, 2012 – 2015
University of New Hampshire, Research Asst. Professor, Durham, NH, 2007 – 2012
UNH Stormwater Center, Director, Durham, New Hampshire, 2004 – 2012
UNH, Research Project Engineer III, Durham, NH, 2001 -2007



REGISTRATIONS AND CERTIFICATIONS

Registered Professional Engineer, New Hampshire No. 12215
Diplomate of Water Resources Engineering, American Academy of Water Resources Eng., No. 00556

CAREER SUMMARY

Dr. Roseen provides many years of experience in water resources investigations and most recently, led a project team in the development of an Integrated Plan for nutrient management for stormwater and wastewater. This plan has received provisional approval by EPA and would be one of the first in the nation. Rob is a recognized industry leader in green infrastructure and watershed management, and the recipient of 2010 and 2016 Environmental Merit Awards by the US Environmental Protection Agency Region 1. He consults nationally and locally on stormwater management and planning and directed the University of New Hampshire Stormwater Center for 10 years and is deeply versed in the practice, policy, and planning of stormwater management. Rob has over 20 years of experience in the investigation, design, testing, and implementation of innovative approaches to stormwater management. Rob has led the technical analysis of dozens of nutrient and contaminant studies examining surface water pathways, system performance, management strategies, and system optimization. Dr. Roseen has partnered with communities for over \$3 million in grants to fund planning, design, and construction of water quality and climate resiliency projects focused on water resources, stormwater management, and low impact development.

SELECT PROJECTS

Phase 1: Lincoln Street Subwatershed Nutrient Control Planning and Design (2016-Current). Dr. Roseen is the project lead for this grant funded project on behalf of the Town of Exeter. This project will leverage a \$1.7 million CIP for road reconstruction and provide a plan and design for a Complete Street that will balance mobility and safety for all users while creating a healthier place – socially, environmentally, and for the local economy. The plan will combine bicycle and pedestrian safety, parking, and traffic calming improvements with green infrastructure such as tree planters, bioretention curb bump-outs and includes watershed planning and design to develop design packages for green infrastructure strategies in the Town's largest subwatershed for use in future CIP, and SRF and other grant program applications. These efforts will include public engagement and outreach and engagement in the watershed on the value of green infrastructure and its role in clean water.

Integrated Planning for Stormwater and Wastewater (2013-Current):

Dr. Roseen is currently leading a large 5 firm engineering team for stormwater services and an integrated planning steering committee beginning in 2016 for Burlington, Vermont. The integrated planning effort is the first in the northeastern United States for a municipally funded effort. This project seeks to develop an integrated plan for stormwater, wastewater, and nonpoint sources for a phosphorous TMDL.

Dr. Roseen lead a team from 2013-2015 that developed the foundation for an Integrated Plan for three coastal communities in seacoast New Hampshire. The goal of the plan is to help these communities meet new, more stringent wastewater and stormwater permit requirements for nutrients, improve water quality in the Squamscott

River, support the economic viability of the participating communities, provide information to make long-term financial commitments and planning decisions, and to communicate to the public essential information.

Commercial Street Porous Pavement Design, Provincetown, Ma (2009-Current). Since 2009, Dr. Roseen has been the technical lead for a project team led by GHD Inc. on 3 phases of porous pavement design for the construction over 6000' of the first "Porous Municipal Main Street". The project has funded over \$4 million in economic and water quality grants to support public infrastructure. It addressed infrastructure problems with flooding and drainage along main street that had tremendous traffic during the tourist season. Through the use of widespread infiltration, the design sought to help Provincetown address their need to manage stormwater and beach impairments which occur from the discharge of untreated runoff from many outfalls. Beach closures at these outfalls were eliminated in 2013 and numbered 18 in 2011, and 9 in 2012. The design fully managed runoff from a highly trafficked section of Commercial Street, in addition to managing rooftop runoff from adjacent buildings. The design also considered the long-term maintenance aspect of the pavement with respect to the town's current maintenance routine.

MS4 Regulatory Program Experience: Dr. Roseen lead a team from 2012-2013 with the City of Rochester, New Hampshire as part of a 3-year stormwater engineering contract to provide services to support their MS4 operations and planning. A diverse array of services were provided including nutrient management planning for stormwater and wastewater, stormwater ordinance and planning regulations development, stormwater master planning, MS4 auditing for the 2003 permit, planning and preparation for the 2013 Draft MS4 permit, assistance with developing funding mechanisms to support the municipal program, stream restoration, asset inventory and assessment for drainage infrastructure, operations and management plan preparation, and GIS database development, to name a few.

Long Creek Watershed Management District, South Portland, Maine (2008-2015). Dr. Roseen has worked in Long Creek since 2008 and was a recipient of an Environmental Merit Award as a participating member in the Watershed Management Team and the development of the Watershed Management Plan. Rob has collaborated with LCWMD in the implementation, monitoring, and maintenance of LID including bioretention, gravel wetlands, tree filters, and the first installation of a high-use state roadway using porous asphalt in the northeastern United States. In 2015 Rob led the design of over a dozen innovative bioretention planters optimized for phosphorous removal as part of a \$2.5 million retrofit and greening of Gorham and Maine Mall Roads

Green Infrastructure for Sustainable Coastal Communities (2012-2014). National Estuarine Research Reserve—Science Collaborative. Dr. Roseen was lead author and the lead science investigator for this two-year, \$589,838 project to build capacity to implement municipal GI programs.

Berry Brook Watershed Restoration (2009-2012). *Aquatic Resource Mitigation Fund of the NHDES and US Army Corps of Engineers.* Dr. Roseen managed this multi-year, \$750,000 project in partnership with the City of Dover, the NH Fish and Game, and American Rivers. The project conducted wetland and stream restoration, buffer development, and stormwater management LID retrofits and community outreach and education in Dover, NH.

State Street Reconstruction Project, Portsmouth, NH (2009-2011). In 2009 Dr. Roseen participated in the design team with CMA Engineers for an American Recovery and Reinvestment Act project for combined sewer separation in historic downtown Portsmouth. Dr. Roseen advised and designed in partnership with CMA the green infrastructure components of the project including the use of tree filters, bioretention systems, and subsurface detention and filtration. The City of Portsmouth received the 2011 Outstanding Civil Engineering Achievement Award from the NH Chapter of ASCE.

HONORS AND AWARDS

- 2016 Environmental Merit Award, *Water Integration for Squamscott Exeter (WISE)*, USEPA-R1
- 2010, Diplomate by the American Academy of Water Resources Engineers (D. WRE).
- 2010 Outstanding Civil Engineering Achievement Award, NH-ASCE, *State Street Utilities Replacement and Street Revitalization, Portsmouth, New Hampshire*
- 2010 Environmental Merit Award, Long Creek Watershed Management Team, USEPA-R1.

Conflict of Interest Disclosure Form

CHESPEAKE BAY PROGRAM WATER QUALITY GOAL IMPLEMENTATION TEAM
BMP EXPERT PANEL CONFLICT OF INTEREST DISCLOSURE
Version date: July 13, 2015

NAME: ROBERT ROSEEN _____ TELEPHONE: 603-686-2488 _____

ADDRESS: 9 GRETAS WAY, STRATHAM, NH 03885 _____

EMAIL ADDRESS: RROSEEN@WATERSTONE-ENG.COM _____

EMPLOYER: WATERSTONE ENGINEERING _____

BMP PANEL: Wetlands _____

INSTRUCTIONS¹

The primary focus of the CBP BMP expert panels is to develop BMP-specific nutrient and sediment reduction effectiveness estimates (*i.e.*, performance estimates). A secondary focus may include describing future BMP-specific research needs and ancillary benefits. It is essential that the work of BMP expert panels not be compromised by significant conflicts of interest. Except for those situations in which the Chesapeake Bay Program (CBP) partnership determines that a conflict of interest is unavoidable and publicly discloses the conflict of interest, no individual can be appointed to serve (or continue to serve) on an expert panel if the individual has a conflict of interest that is relevant to the functions to be performed.

For the purposes of the BMP expert panels convened by the CBP partnership, the term "**conflict of interest**" is any financial or other interest which conflicts with the service of the individual because it (1) could significantly impair the individual's objectivity or (2) could create an unfair competitive advantage for any person or organization. The term "conflict of interest" applies only to *current interests*. It does not apply to past interests that have expired, no longer exist, and cannot reasonably affect current behavior. Nor does it apply to possible interests that may arise in the future, because such future interests are inherently speculative and uncertain.

"Conflict of interest" means something more than individual bias. A point of view or bias is not necessarily a conflict of interest. Expert panel members are expected to have points of view and the CBP partnership attempts to balance points of view by supporting diverse expert panel membership. Panel members are asked to consider respectfully the viewpoints of other members, to reflect their own views rather than to be a representative of any organization, and to base their scientific conclusions and judgment on relevant evidence.

This conflict of interest disclosure form is designed to prophylactically eliminate potentially compromising situations from arising, and thereby to protect the individual, the other members of the expert panel, the CBP partnership, and the public interest. The individual, the expert panel, and the partnership should not be placed in a situation where others could reasonably question, and perhaps discount or dismiss, the work of the expert panel simply because of the existence of conflicting interests.

The overriding objective of this conflict of interest disclosure form is to identify whether there are interests – primarily financial in nature – that conflict with the expert panel service of the individual because they could impair the individual's objectivity or could create an unfair competitive advantage for any person or organization. The fundamental question in each case is this: Does the individual, or others with whom the individual has substantial common financial interests, have identifiable

¹ Note: This form was created and informed by National Academies documentation found at <http://www.nationalacademies.org/coi>.

interests that could be directly affected by the outcome of the activities of the expert panel on which the individual has been asked to serve? The following questions are designed to elicit information from potential expert panel members concerning potential, relevant conflicts of interest.

1. FINANCIAL INTERESTS.

- a) Taking into account stocks, bonds, and other financial instruments and investments including partnerships (but excluding broadly diversified mutual funds and any investment or financial interests valued at less than \$10,000), do you or, to the best of your knowledge others with whom you have substantial common financial interests, have financial investments that could be affected, either directly or by a direct effect on the business enterprise or activities underlying the investments, by the recommendations made by the expert panel on which you have been invited to serve?
- b) Taking into account real estate and other tangible property interests, as well as intellectual property (patents, copyrights, etc.) interests, do you or, to the best of your knowledge others with whom you have substantial common financial interests, have property interests that could be directly affected by the findings made by the expert panel on which you have been invited to serve?
- c) Could your employment (or the employment of your spouse), or the financial interests of your employer or clients (or the financial interests of your spouse's employer or clients) be directly affected by the findings made by the expert panel on which you have been invited to serve?
- d) Taking into account research funding and other research support (e.g., equipment, facilities, industry partnerships, research assistants and other research personnel, etc.), could your current research funding and support (or that of your close research colleagues and collaborators) be directly affected by the findings made by the expert panel on which you have been invited to serve?
- e) Could your service on the expert panel on which you have been invited to serve create a specific financial or commercial competitive advantage for you or others with whom you have substantial common financial interests?

If the answer to all of the above questions under **FINANCIAL INTERESTS** is either "no" or "not applicable," check here X (NO).

If the answer to any of the above questions under **FINANCIAL INTERESTS** is "yes," check here (YES), and briefly describe the circumstances below.

EXPLANATION OF "YES" RESPONSES: (attach additional pages, if needed)

2. OTHER INTERESTS.

- a) For the expert panel on which you have been invited to serve, is a principal charge to provide a critical review and evaluation of your own work or that of your employer?

- b) Do you have any existing professional obligations that effectively require you to publicly defend a previously established position on an issue that is relevant to the functions to be performed by this expert panel?
- c) To the best of your knowledge, will your participation on this expert panel enable you to obtain access to a competitor's or potential competitor's confidential proprietary information?
- d) If you are, or have ever been, a federal, state, or local government employee, to the best of your knowledge are there any conflict of interest restrictions that may be applicable to your service on this expert panel?

If the answer to all of the above questions under OTHER INTERESTS is either "no" or "not applicable," check here (NO).

If the answer to any of the above questions under OTHER INTERESTS is "yes," check here (YES), and briefly describe the circumstances below.

EXPLANATION OF "YES" RESPONSES: (attach additional pages, if needed)

Per the CBP BMP Protocol,² all proposed panel members are subject to review and approval by the appropriate sector Workgroup or WQGIT. **Please read and initial each of the following statements.**

___RMR___ *In addition to this conflict of interest disclosure form, I have received a copy of the current BMP Protocol and, if I am accepted as a panel member, I will, to the best of my ability and with guidance from the Panel Chair and Coordinator, adhere to the expectations and procedures described therein.*

RMR___ *I understand that a conflict of interest may prevent my participation as a member of the proposed BMP expert panel if the CBP partnership, in coordination with the Panel Chair, determine that the circumstances of my particular conflict of interest are not consistent with the intentions or purpose of the expert panel or the BMP Protocol. Furthermore, I understand that any such finding would NOT reflect an assessment by the CBP partnership of my actual expected behavior or in any way be an assessment of my character or my ability to act objectively despite the relevant conflicting interest.*

RMR___ *If I am not confirmed by the CBP partnership as a panel member, I understand that there can be other opportunities to provide my expert input to the panel, as described in the BMP Protocol and that I am welcome to discuss these opportunities with the Panel Chair and Coordinator.*

RMR___ *I affirm that as a panel member I will respectfully consider the expert opinions and judgments of other members within the context of their perspectives, expertise, and experience, and I will reflect on these as I express my own expert opinions and formulate my own professional judgments. Further, I will base my findings, conclusions, and professional judgment on all of the relevant scientific evidence available to the expert panel on which I serve.*

During your period of service in connection with the panel for which this form is being completed, any changes in the information reported, or any new information which needs to be reported, should be reported promptly by written or electronic communication to the Panel Chair and Coordinator.

S 

Digitally signed by Robert Roseen, Principal
DN: cn=Robert Roseen, Principal,
o=Waterstone Engineering, PLLC, ou,
email=rroseen@waterstone-eng.com, c=US
Date: 2017.09.11 08:26:37 -04'00'

_____ Date

Robert Roseen _____
Print Name

_____ Reviewed WQGIT Co-Chair

_____ Date

_____ Print Name

_____ Reviewed WQGIT Co-Chair

_____ Date

_____ Print Name

² http://www.chesapeakebay.net/publications/title/bmp_review_protocol

RALPH J. SPAGNOLO

2140 Brandywood Drive
Wilmington, Delaware 19810

Work: (215) 814-2718

Cell (302) 354-9213

Education:

- 1988 Stockton State College, Pomona, NJ 08240
Bachelor of Science Degree in Marine Biology
- 1991 University of Delaware, Newark, DE 19711
Masters of Marine Policy

Professional Experience:

- 2004 to present U.S. Environmental Protection Agency, Region III
Water Protection Division, *Watershed Restoration Program Manager*

Serve as Region III's Watershed Restoration Team Leader; oversee Targeted Watershed Grants Program; developing a national watershed/wetland resource registry for watershed based compensatory mitigation; member of the National Targeted Watershed Panel; review technical reports of grantees; coordinate and teach technical training for staff of federal, state, and local staff and watershed groups; provide field technical assistance to other water programs such as the non-point source, TMDL, point source and others; coordinate mid-Atlantic watershed roundtable workgroup; lead ecological restoration targeting efforts for major projects and watersheds in the Region; integrate EPA programs such as air, land and water to provide multi-media targeting at the 12 digit watershed HUC level; coordinate conferences and workshops; serve as EPA's National representative on the National Hydric Soils Committee, National Advisory Team for the Corps Delineation Manual, and Chair of the Mid-Atlantic Hydric Soils Committee.

- 1991 to 2004 U. S. Environmental Protection Agency, Region III
Wetlands/NEPA Regulatory Program; *Environmental Scientist*.

Serve as EPA's wetland regulatory and delineation/NEPA coordinator for VA, MD and D.C.; wetlands training coordinator for EPA in MD, PA, VA, WV, and DC; conduct NEPA reviews for federal projects and wetland permits, review EIS's, EA's and wetlands permits for large scale transportation projects, work on superfund sites for EPA's hazardous waste section, conference director for six national shallow water conferences and four wetland regulatory workshops; certified instructor for Regulatory IV, Corps of Engineers 1987 Delineation Manual (instructed over 80 courses in the northeast and mid-Atlantic); regulate and develop management strategies for the disposal of dredged material in jurisdictional waters; design and review wetland mitigation sites for all projects reviewed; conduct and report on field investigations and inspections related to permit applications under Section 404 of the Clean Water Act, National Environmental Policy Act and Section 10 of the Rivers and Harbors Act; review and design compensatory mitigation plans; perform wetland assessments using HGM, EPW, WET, and others; coordinate other federal, state and local agencies, industry, and non-profit groups to resolve issues pertaining to wetlands and NEPA; teach and organize lecture and field courses for other federal, state and local representatives in botany, ecology, soil science, hydrology, mitigation, wetlands ecology and biology; lecture on wetlands ecology to public groups and educational institutions; select, supervise and counsel college interns during their fellowship to assess and guide them in achieving prescribed scientific, management and technical tasks; work with the Port of Baltimore on disposal options for dredge material.

- 1989 Department of Environmental Protection of New Jersey, Division of Fish, Game, and Wildlife, Bureau of Shellfisheries; Nacote Creek Research Station. *Research Aide*.

Inventoried benthic fauna in estuarine and marine, systems; performed sediment grain size analysis; inventoried samples collected at each field station; worked with apparatus such as

hydraulic dredge, Peterson grab, Kemmerer bottle, Shinnecock rake and clam tongs; Calculated mortality rates, size frequencies, and hard clam densities.

1988 Joseph L. Lomax & Associates, Inc., Environmental Consulting and Photography. *Student Intern.*

Environmental consultant completing wetland delineations with the 1989 Federal Manual; determined flora and fauna for field assessments of estuaries, salt and freshwater wetland projects, and marina operations; researched threatened and endangered species of New Jersey.

Awards:

EPA Bronze Medal for Commendable Service 1991, 1995, 1996, 2003 & 2004.
EPA Peer Award for Exceptional Performance, 1994.
EPA Instructor of the Year Award 1999.

Professional Activities:

Instructor:

Cabrini College: Geology, Ecology, Wetlands Ecology & Environmental Science.
June 1995 to present.

Associations:

Atlantic Estuarine Research Society
Estuarine Research Federation
Wetlands Regulatory Workgroup
Society of Wetland Scientists

Committees:

Masters' Thesis Committee Member, University of Delaware, "Mitigation Banking," Spring 1998.
Chair & Founder, Mid-Atlantic Hydric Soils Committee, 1995 to present.
Co-chair Northeast Hydric Soils Committee, June 2000 to present.
Chair, Maryland Interagency Training Team, 1997 to present.
Member, National Hydric Soils Technical Committee, April 2003 to present.
Member, National Advisory Team, Regionalization of the Corps of Engineers Delineation Manual

Scientific Symposia and Workshops:

Conference Director & Founder, Marine and Estuarine Shallow Water Science & Management Conferences, March, 1994, April, 1995, December, 1996, March, 1998, March, 2000, and April 2002.
Conference Director & Founder, Wetlands Regulatory Workshops, November, 1998 - Present
Conference Director & Founder, National Hydric Soils Workshop, March 2001.
Conference Director, Watershed Summit on the Delaware, 2004

Editor:

Guest Editor, Estuarine Research Federation's Scientific Journal, *Estuaries* "Special Issue on Shallow Water Environments," March, 1996.
Editor, Field Indicators of Hydric Soils in the Mid-Atlantic United States, 1997.
Editor, Proceedings from the Second Marine and Estuarine Shallow Water Science and Management Conference May, 1997.
Guest Editor, Estuarine Research Federation's Scientific Journal, *Estuaries* "Special Issue on Shallow Water Environments," September, 1999.

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Version date: July 13, 2015

NAME:

Ralph Spagnolo

TELEPHONE:

(215) 814-2718

ADDRESS:

2202 Lancashire Drive
Wilmington, DE 19810

EMAIL ADDRESS:

Spagnolo.Ralph@epa.gov

EMPLOYER:

United States Environmental Protection Agency

BMP PANEL:

Wetlands Expert Panel

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- c) Could your employment (or the employment of your spouse), or the financial interests of your employer or clients (or the financial interests of your spouse's employer or clients) be directly affected by the findings made by the expert panel on which you have been invited to serve?
- d) Taking into account research funding and other research support (e.g., equipment, facilities, industry partnerships, research assistants and other research personnel, etc.), could your current research funding and support (or that of your close research colleagues and collaborators) be directly affected by the findings made by the expert panel on which you have been invited to serve?
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- If I am not confirmed by the CBP partnership as a panel member, I understand that there can be other opportunities to provide my expert input to the panel, as described in the BMP Protocol and that I am welcome to discuss these opportunities with the Panel Chair and Coordinator.
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During your period of service in connection with the panel for which this form is being completed, any changes in the information reported, or any new information which needs to be reported, should be reported promptly by written or electronic communication to the Panel Chair and Coordinator.

Ralph S. Spagnolo
 Signature
Ralph S. Spagnolo
 Print Name

9/12/17
 Date

 Reviewed WQGIT Co-Chair

 Print Name

 Date

 Reviewed WQGIT Co-Chair

 Print Name

 Date

² http://www.chesapeakebay.net/publications/title/bmp_review_protocol