

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE: :
 :
APPLICATION OF HOMELAND TOWERS : DOCKET NO. 507
LLC AND CELLCO PARTNERSHIP D/B/A :
VERIZON WIRELESS FOR A CERTIFICATE :
OF ENVIRONMENTAL COMPATIBILITY :
AND PUBLIC NEED FOR THE :
CONSTRUCTION, MAINTENANCE AND :
OPERATION OF A WIRELESS :
TELECOMMUNICATIONS FACILITY AT :
222 CLINTONVILLE ROAD, NORTH :
BRANFORD, CONNECTICUT : MARCH 8, 2022

PRE-HEARING SUBMISSION

Homeland Towers LLC (“Homeland”) and Cellco Partnership d/b/a Verizon Wireless (“Cellco”) (collectively the “Applicant”) hereby provides the Connecticut Siting Council (“Council”) with the following pre-hearing information available at this time regarding the above-referenced Application.

A. List of Witnesses

1. Raymond Vergati, Regional Manager, Homeland Towers LLC
2. Ziad Cheiban, Radio Frequency Engineer, Verizon Wireless
3. Robert Burns P.E. All-Points Technology Corp. P.C.
4. Matthew W. Allen, RLA, Saratoga Associates
5. Martin Brogie, Principal Environmental Scientist, Martin Brogie, Inc.
6. Maureen A. Bowman, Sr. Architectural Historian, EBI Consulting
7. Elaine Langer, Program Manager, EBI Consulting
8. Robert C. Russo CSS, Soil Scientist/Environment Scientist/Biologist

9. Paul H. Zito, Tow of North Branford Communications Consultant

B. Exhibits to be offered

Homeland and Cellco intends to offer the following Exhibits:

1. Application for a Certificate of Environmental Compatibility and Public Need filed by Homeland and Cellco dated January 27, 2022.
2. Bulk file exhibits including:
 - a. Homeland's "Technical Report" dated September 1, 2021, filed with the Town of North Branford;
 - b. Town of North Branford Zoning Regulations;
 - c. Town of North Branford Inland Wetlands and Watercourses Regulations; and
 - d. Town of North Branford Plan of Conservation & Development.
3. Connecticut Post Affidavit of Publication dated May 24, 2021.
4. Applicant's Sign Posting Affidavit filed on March 3, 2022.
5. Applicant's Responses to Council Interrogatories Nos. 1-4, 7-12, 17, and 19- 24, 26-27 and 30.
6. Applicant's Supplemental Responses to Council Interrogatories Nos. 5-6, 13-16, 18, 25 and 28-29.
7. February 25, 2022 Updated SHPO Determination Letter for the relocated tower site.
8. Resumes of the Applicant's Witnesses:
 - a. Matthew W. Allen, RLA, Saratoga Associates
 - b. Martin Brogie, Principal Environmental Scientist, Martin Brogie, Inc.

- c. Maureen A. Bowman, Sr. Architectural Historian, EBI Consulting
- d. Elaine Langer, Program Manager, EBI Consulting
- e. Robert C. Russo, CSS, Soil Scientist/Environment Scientist/Biologist
- f. Paul H. Zito, Tow of North Branford Communications Consultant


The Applicant reserves the right to offer additional exhibits, testimony, witnesses and administratively noticed materials as new and pertinent information and materials come to its attention and in rebuttal to positions taken by the Council, parties or intervenors.

C. Remote Public Comment Session

Prior to the start of the Remote Public Comment Session, the Applicant's project engineer, Robert Burns, P.E. will make a brief presentation describing the site features and proposed site improvements. Mr. Burns will refer to Site Plan Sheets SP-1, SP-2 and CP-1, included in Attachment 1 of the Docket No. 502 Application. Electronic copies of Plan Sheets SP-1, SP-2 and CP-1 are attached to this filing.

Respectfully submitted,

HOMELAND TOWERS LLC AND
CELLCO PARTNERSHIP d/b/a VERIZON
WIRELESS

By: 

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597
Its Attorneys

MATTHEW W. ALLEN, RLA

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PROJECT ROLE

Principal-in-Charge

PROFESSIONAL EXPERIENCE

Mr. Allen is a Registered Landscape Architect with over 30 years of experience in regional and community planning, downtown streetscape and waterfront redevelopment and environmental compliance. He serves as project manager and site designer for a wide variety of site development projects including industrial, commercial, institutional, residential, and mixed-use projects.

Matt leads the firm's Visual Impact Assessment and Scenic Resource Management practice. He is a recognized leader in the specialized discipline of visual impact assessment and aesthetic mitigation. As such, he is highly skilled in the application of advanced computer-generated visual simulation, animation and viewshed development technology. Matt served on the peer review team for the landmark 2000 NYSDEC Program Policy concerning visual impact assessment and mitigation. He frequently serves as a third party advisor to the NYSDEC, helping state regulators understand and minimize aesthetic impacts associated with large and often controversial development projects.

EDUCATION

*Master of Science, Urban & Environmental Studies
Rensselaer Polytechnic Institute, 1991*

*Bachelor of Landscape Architecture
SUNY College of Environmental Science & Forestry, 1983*

REGISTRATION/CERTIFICATION

New York – License # 001087

REPRESENTATIVE EXPERIENCE

NYS Department of Environmental Conservation Expert Services - Various Locations, Upstate, NY

Project Manager responsible for third-party review and expert witness services for visually sensitive and controversial projects. Projects include Sour Mountain Realty Mine Proposal, Thalle Quarry, Domain Mine, Belleayre Resort at Catskill Park, and Athens Generating Project. Provided pre-filed written and direct oral testimony in administrative hearings on behalf of NYSDEC.

Wind Energy

Vineyard Wind Offshore Energy Project - Vineyard Wind, LLC, Atlantic Ocean off coast of Martha's Vineyard & Nantucket Islands, MA

Principal-in-Charge/Visual Analyst responsible for evaluating the potential visibility of an 800 megawatt (106 turbine) off-shore wind energy facility. The analysis was consistent with procedural standards defined by the Bureau of Offshore Energy Management (BOEM) for visual assessment and included evaluation of existing landscape character, identification of sensitive visual resources and preparation of highly accurate photo simulations taking into account the effect of earth curvature, meteorological visibility and distant visibility of aviation lighting.

Hounsfield Windfarm Visual Impact Assessment - Upstate NY Power Corp., Hounsfield, NY

Landscape Architect/visual analyst responsible for comprehensive visual resource assessment of an 84-turbine wind energy and associated 51 mile, 230kV transmission line. The VRA identified potential aesthetic impacts and provided an assessment of the visual character of the Project from which agency decision-makers can render a determination of visual significance. The VRA included zone of visual influence analysis, as well as multiple photo realistic simulations illustrating project visibility.

St. Lawrence Wind Energy Project Visual Assessment - Acciona Energy, Cape Vincent, NY

Principal-in-Charge of a visual resource assessment (VRA) of a 96-turbine wind farm. Work included a zone of visual influence analysis, photo-realistic simulations illustrating project visibility, assessment of potential shadow flicker impact and objective evaluation of the project's impact on the scenic resources of the region.

West Hill Windfarm Visual Assessment - Acciona Energy, Madison County, NY

Principal-in-Charge of a visual resource assessment (VRA) of a 25-turbine wind farm. Work included a zone of visual influence analysis, photo-realistic simulations illustrating project visibility, assessment of potential shadow flicker impact and objective evaluation of the project's impact on the scenic resources of the region.

Solar Energy

Various Solar Project Photo Simulations– Borrego Solar, New York State & Massachusetts

Visual analyst responsible for developing a series of photo simulations illustrating how a proposed solar energy facility would appear from off-site vantage points. The simulations were used to communicate project character and visibility to agency decision-makers and stakeholder groups. Provided landscape mitigation plans to minimize project visibility from adjacent properties and the public right-of-way. Client projects include 10 locations throughout New York State and Massachusetts.

MATTHEW W. ALLEN, RLA

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Grafton Solar Project Photo Simulations – Sun Edison, Grafton MA

Visual analyst responsible for developing a series of photo simulations illustrating how a proposed 1mW solar energy facility would appear from both on and off-site vantage points. The simulations were used to communicate project character and visibility to agency decision-makers and stakeholder groups.

Roswell Solar Project Photo Simulations - GCL-SR Solar Energy, Roswell, NM

Visual analyst responsible for developing a series of photo simulations illustrating how a proposed 70mW solar energy facility would appear from off-site vantage points. The simulations were used to communicate project character and visibility to agency decision-makers and stakeholder groups.

Confidential Solar Energy Project Photo Simulations – New England

Visual analyst responsible for developing a series of photo simulations illustrating how a proposed solar energy facility would appear from off-site vantage points. The simulations were used to communicate project character and visibility to adjacent property owners.

Natick Golf Center Solar Project Photo Simulations, Sage Stone, LLC. – Natick, MA

Visual analyst responsible for developing a series of photo simulations illustrating how a proposed solar energy facility would appear from both on and off-site vantage points. The simulations were used to communicate project character and visibility to agency decision-makers and stakeholder groups.

Yellow Mill Road Solar Project - Delaware River Solar, Farmington, NY

Visual analyst responsible for developing a series of photo simulations illustrating how a proposed solar energy facility would appear from off-site vantage points. The simulations were used to communicate project character and visibility to agency decision-makers and stakeholder groups

Electric Generation and Transmission

Cricket Valley Transmission Line Visual Assessment - Cricket Valley Energy, LLC, Pleasant Valley, NY

Project manager/visual analyst assisting with a detailed visual resource assessment consistent with requirements set forth in the NYS Article VII siting regulations. Using standard accepted methodologies, the assessment identified and evaluated dozens of visually sensitive resources. Viewshed analysis and photographic simulations illustrated the nature and degree of potential visual impact. Provided written and oral testimony in NYSDPS administrative hearings.

Indian Point Cooling Feasibility Study Visual Assessment - Entergy Nuclear Indian Point 2, LLC and Entergy Nuclear Indian Point 3, LLC, Buchanan, NY

Principal-in-Charge of Visual Assessment for two very large and highly visible counter-flow, forced draft, plume-abated hybrid cooling towers. The assessment evaluates the potential visual impact of the Project on the scenic resources of the region. Viewshed analysis and photographic simulations illustrated the nature and degree of potential visual impact including complex analysis of the degree and duration of visible vapor plumes that would be periodically emitted from the cooling towers. Provided written and oral testimony in NYSDPS administrative hearings.

Ramapo Energy Facility - Palisades Interstate Park Commission, Ramapo, NY

Project Manager responsible for providing a third-party review of an Article X application for issues associated with the visual impact of a major electric generating station on the adjacent Harriman State Park. Provided pre-filed testimony in administrative hearings before the NYS Public Service Commission.

Bethlehem Energy Center Visual Impact Assessment - PSEG Power New York, Bethlehem, NY

Principal-in-Charge responsible for visual impact assessment for the repowering of a 750 MW electric generating facility. The project included design alternatives for major components of the plant to minimize impact and improve the appearance of the site from the Hudson River and other sensitive public vantage points. Provided pre-filed written and direct oral testimony in administrative hearings before the NYS Public Service Commission.

Industrial Facilities

Broadwater LNG Terminal Visual Assessment - TransCanada/Shell, Long Island Sound, NY/CT

Principal-in-Charge for visual assessment and coastal consistency evaluation of a major offshore floating liquefied natural gas (LNG) terminal. Project included photographic simulation illustrating project visibility from heavily populated shoreline areas and objective evaluation of the project's impact on the scenic resources of the region. Assessment addressed the effect of facility lighting, earth curvature, variable weather conditions and atmospheric refraction (mirage).

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Safe Harbor Offshore LNG Facility - Atlantic Sea Island Group, Long Beach, NY

Landscape architect/visual analyst responsible for visual impact assessment of a deepwater port application for a proposed LNG facility constructed on a man-made island off the coast of Queens, NY. Project included photographic simulation illustrating project visibility from heavily populated shoreline areas. Assessment addressed the effect of earth curvature, variable weather conditions and atmospheric refraction (mirage).

Greenport Replacement Project Visual Assessment - St. Lawrence Cement, Greenport, NY

Project manager for visual impact assessment, mitigation strategy, and coastal zone consistency compliance for a proposed \$300 million cement manufacturing facility. Advised the applicant on interpretation of public policy and compliance with a myriad of governmental regulations. Worked closely with federal, state and local regulatory agencies to design and implement creative measures that minimized or eliminated visual and aesthetic impacts in a manner that balanced economic development with environmental protection. Provided pre-filed written and direct oral testimony in administrative hearings before the NYS Department of Environmental Conservation.

Sparrows Point LNG Terminal Project Visual Study - AES Sparrows Point LNG, LLC, Baltimore, MD

Principal-in-Charge responsible for preparation of a series of photo simulations illustrating how a new industrial Liquefied Natural Gas port and re-gasification facility will appear from off-site vantage points. Photo simulations were used to communicate project character and visibility to agency decision-makers and stakeholder groups.

Smith's Basin Mine Visual Assessment - Jointa Galusha, LLC, Hartford, NY

Project manager responsible for providing visual resource assessment for a proposed 200-acre surface mine. Provided pre-filed written and direct oral testimony in administrative hearings before the NYS Public Service Commission.

Refinery Expansion Project Visual Impact Assessment - Murphy Oil Corporation, Superior, WI

Principal-in-Charge responsible for providing visual resource assessment for a major expansion of an existing heavy industrial facility. Work included a zone of visual influence analysis within a 5-mile radius of the proposed project, photo-realistic simulations illustrating project visibility and evaluation of the project's impact on surrounding neighborhoods and cultural resources.

Solid Waste Management Facilities

Solid Waste Landfill Visual Assessment - Seneca Meadows, Inc., Waterloo, NY

Project Manager responsible for providing visual assessment and a mitigation plan for proposed horizontal and vertical expansion of an existing solid waste landfill. Work included a zone of visual influence analysis, photo-realistic simulations illustrating project visibility and objective evaluation of the project's impact on the scenic resources of the region. Provided visual assessment and mitigation services for proposed landfill expansion in 1990, 2003, and 2016.

Town of Colonie Landfill Expansion - Waste Connections, Inc, Colonie, NY

Principal-in-Charge responsible for visual resource assessment and mitigation plan for a proposed horizontal and vertical expansion of an existing 211-acre solid waste landfill. A revegetation plan was prepared using a blend of native seed types to create a subtle "camouflage effect" to blend the final landform into the surrounding landscape.

Hyland Landfill Expansion Visual Impact Assessment - Casella Waste Management Systems, Angelica, NY

Project manager responsible for providing visual resource assessment and a mitigation plan for a proposed height increase and expansion of an existing solid waste landfill. The visual assessment was used to redesign the project contour to maximize fill area while completely avoiding view from key residential areas.

Clinton County Solid Waste Management Facility Expansion - Casella Waste Systems, Schuyler Falls, NY

Project manager responsible for providing visual assessment and mitigation plan for a proposed expansion of an existing solid waste landfill. Work included a zone of visual influence analysis, photo-realistic simulations illustrating project visibility and objective evaluation of the project's impact on the scenic resources of the region.

Energy-From-Waste Facility Visual Assessment - Covanta Hempstead Company, Westbury, NY

Principal-in-Charge responsible for an assessment and mitigation strategy for a proposed 35MW expansion to an existing energy-from-waste facility in suburban Long Island. Project involved development of a visual mitigation plan and preparation photo simulations. Information was used to communicate project character and visibility to agency decision-makers and stakeholder groups.

Solid Waste Landfill Visual Assessment - Seneca Meadows, Inc., Waterloo, NY

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Project Manager responsible for providing visual assessment and a mitigation plan for proposed horizontal and vertical expansion of an existing solid waste landfill. Work included a zone of visual influence analysis, photo-realistic simulations illustrating project visibility and objective evaluation of the project's impact on the scenic resources of the region. Provided visual assessment and mitigation services for proposed landfill expansion in 1990, 2003, and 2016.

Wireless Telecommunications

Armonk Road Cell Tower - Homeland Towers, LLC., New Castle, NY

Principal-in-Charge responsible for providing visual resource assessment for the controversial telecom tower project that received municipal approval. A subsequent lawsuit contesting the municipal decision was dismissed based largely on the findings of the visual impact assessment.

Schoolhouse Site Cell Tower Visual Assessment - Airosmith Development, Guilderland, NY

Principal-in-Charge responsible for providing visual resource assessment. The project involved a publicly advertised balloon visibility study, viewshed mapping and photo simulations of monopole and monopine tower alternatives. Findings were summarized in visual report to meet municipal requirements.

Dantara Drive Cell Tower Visual Assessment - Homeland Towers, LLC., East Fishkill, NY

Principal-in-Charge/Project Manager responsible for providing visual resource assessment for the controversial telecom project was initially denied by the Town. Decision was overturned by the US Court of Appeals due, in part, to the Town's failure to fully consider the findings of the visual assessment.

EcoSite Glastonbury Wireless Telecommunications Tower - Infinigy, Glastonbury, CT

Principal-in-Charge responsible for providing visual resource assessment. The project involved a publicly advertised balloon visibility study, viewshed mapping and photo simulations of a monopole tower design. Findings were summarized in visual report to meet Connecticut Siting Council requirements.

BlueSky Towers Evergreen Street Telecommunications Tower – IVI Telecom Services, Bridgeport, CT

Principal-in-Charge responsible for providing visual resource assessment. The project involved viewshed mapping and photo simulations of a monopole tower design. Provided written and oral testimony in Connecticut Siting Council administrative hearings.

Residential/Commercial/Mixed Use Development

Hudson Landing Scenic Resource Assessment - AVR Realty, Kingston, NY

Principal-in-Charge for a visual impact assessment of a 1,682-unit, mixed use residential and commercial waterfront community on a former industrial site along the Hudson River. The project included viewshed analysis, photo-realistic simulations and an objective evaluation of the project's impact on the scenic resources of the region. Worked closely with municipal and state regulators to identify potential aesthetic impacts and develop a mitigation strategy to protect the coastal landscape.

Victor Square Visual Assessment - Benderson Development Company, Victor, NY

Principal-in-Charge responsible for providing aesthetic impact evaluation and mitigation plan for a 566,000 GSF retail and commercial project. The project involved detailed assessment of project visibility from neighboring properties, including consideration of site lighting impacts. Worked closely with municipal leaders to develop an acceptable mitigation strategy to minimize visibility from off-site locations.

Scenic Resource Management Projects

Integrated Concept Plan - Scenic Resource Management Plan - Plum Creek Maine Timberlands, LLC, Moosehead Lake Region, ME

Principal-in-Charge responsible for addressing the potential impact associated with the rezoning of 20,000 acres of timberland for waterfront residential and resort uses on the scenic water bodies of Maine's "North Woods". The Concept Plan included a new quantifiable shoreline tree clearing standard to assure sufficient shoreline vegetation remains to adequately screen waterfront development. Provided pre-filed and direct oral testimony before the Maine Land Use Regulation Commission.

LG Electronics v. Protect the Palisades - Scenic Hudson, Inc., Englewood Cliffs, NJ

Principal-in-Charge providing scenic resource management consulting to conservation organizations associated with a planned high rise office building atop the iconic Hudson River Palisades Escarpment. Work involved reviewing application documents and making recommendations to reduce the building height and redesign the roof line to protect sensitive views. Resulted in a successful negotiation with the project sponsor to build a project that balances economic development with resource management.



Martin Brogie, Inc.

ENVIRONMENTAL SERVICES

- Wetland Delineation and Assessment
 - Enhancement and Restoration
- Local, State and Federal Permitting

MARTIN BROGIE, LEP PRINCIPAL ENVIRONMENTAL SCIENTIST

Education: B.S., University of Connecticut, Natural Resource Management and Engineering - Concentration in Soil Science - 1990
Masters Course Work in Soil Chemistry and Groundwater Assessment and Remediation - 1991 and 1992

Certifications: Certified Soil Scientist – Society of Soil Scientists of Southern New England since 1991

Licensed Environmental Professional – State of Connecticut #312

Experience: Mr. Brogie has nearly 30 years of experience as a Soil Scientist working in Connecticut, Massachusetts and Rhode Island. He has performed wetland delineation surveys in accordance with state and Federal regulations including assessments of site soils, hydrology, and vegetation. His experience has also included upland soils mapping and a special focus on disturbed/altered soil profiles. In consort with delineation services, Mr. Brogie has completed wetland assessment services including determining the various wetland functions and values in accordance with Army Corp of Engineers methodology (Highway Methodology Workbook Supplement – A Descriptive Approach) developed for Section 404 permitting and National Environmental Policy Act compliance.

In evaluating wetland functions and values, he has conducted biological/wildlife assessments with particular attention to Vernal Pool characterization in accordance with Klemens, et.al. Vernal Pool habitat characterization and amphibian trapping and logging have been completed in association with this work.

Mr. Brogie has developed and implemented various wetland and upland mitigation/restoration projects to offset proposed development impacts, restore illegally filled wetlands, and to enhance wildlife attributes. He integrates his experience with shallow groundwater assessment and an understanding of native flora and fauna to develop practical restoration plans and successful project implementation.

As a consultant to various municipalities, Mr. Brogie provided wetland delineation and wetland application peer reviews. He provided conclusions and recommendations to Commissions regarding the scientific merit of wetland permit

Martin Brogie continued

application reports and suggestions for modifying development plans to be more consistent with protection of wetland resources, as needed.

Mr. Brogie has prepared and presented local, state and Federal wetland permits under various programs.

He has conducted studies for various remediation projects including hazardous waste landfill capping plans and specifications, wetland soil remediation and restoration, riverbed sediment characterization and remediation, dam removal and wetland soil characterization. Mr. Brogie conducted river habitat characterization, sediment and surface water sampling, and historic riverbed location studies. He has implemented groundwater and surface water monitoring plans and completed contours maps and groundwater flow direction assessments. He has conducted and managed over 1,000 environmental site assessments, field investigations and remediation projects for residential, commercial and industrial properties.

Memberships: Society of Soil Scientists of Southern New England
Environmental Professionals of Connecticut
Urban Land Institute
American Planning Association
Northeast Economic Development Association

EXAMPLE PROJECTS

Design and Construction Review and Inspection Services – Various Municipalities - Provides permit application and construction design reviews for various commercial and residential development projects for local inland wetland commissions as an expert peer review. Reviews environmental reports and conducts independent field surveys to confirm wetland delineations and habitat characterization. Reviews engineering design relative to storm water treatment systems, site layout and phasing, and erosion and sedimentation control plans. Provide recommendations for wetland impact reduction, enhancement, and avoidance.

Wetlands Delineation for Dam Removal - Roaring Brook at Slocomb Pond Dam Matson Hill Road Glastonbury, CT – Conducted a state and Federal wetland delineation for Princeton Hydro for a dam removal project located within a town park. The project consisted of the evaluation of soil, structures, flow paths and fill embankments to determine the regulated wetland limits. Prepared a wetland delineation report and coordinated with project engineers.

Polluted Dam Sediment Re-use Consulting – Old Paper Mill Dam New Milford, CT – Worked with The Nature Conservancy to direct supplemental sediment sampling and review laboratory analytical data to determine beneficial reuse of contaminated dam sediment. Provided a written report that described the allowable use and associated protocols for utilizing dam sediment as fill material needed for the dam removal project improvements

Vernal Pool Preservation – Sterling, Connecticut – Conducted wetland delineation and characterization and vernal pool identification and assessment on 70-acre parcel along the Moosup River. Amphibian breeding activity was noted in one, large onsite vernal pool, within flood plain wetlands and in several offsite vernal pools. A vernal pool no-disturbance zone was created and specifications, construction sequencing, and monitoring plans for a 400-foot vernal pool upland restoration plan were developed. Also, prepared the local inland wetland permit and provided public hearing testimony for the project.

Martin Brogie continued

Tidal Wetlands Assessment and Permitting, The BSC Group, Branford, CT. Completed tidal and inland wetlands delineation and assessment for a disturbed golf course area that included a brackish watercourse and significant invasive species. Prepared US Army Corps of Engineers field documentation reports, wetland assessment reports, and recommendations for wetland restoration.

Wetland Permitting and Mitigation – Thompson, Connecticut – Conducted wetland delineation, wetland and upland characterization, wildlife inventory, and vernal pool survey at a 150-acre parcel for a proposed 50 lot residential subdivision. The property was located along the Thompson Dam. Prepared local inland wetland permit and United States Army Corps of Engineers Category II permit including submittal of a wetland mitigation plan. The wetland mitigation consisted of the construction of an approximate 8,000 square foot shallow marsh community that annexed an existing shallow marsh.

Wetland Delineation, Permitting, Mitigation Design and Construction – East Hampton Commercial Development – Served as Soil Scientist of record for a commercial development project in downtown East Hampton, Connecticut providing wetland delineation and assessment services for project planning and design. Completed inland wetland agency permitting documentation and public hearing presentations. Provided project specifications for wetland mitigation and oversight of mitigation construction. Completed construction monitoring including erosion control monitoring and reporting. Provided follow-up consulting for an additional project phase including wetland mitigation design and project development planning.

Gateway Development Wetland Application Review, Town of East Lyme, East Lyme, CT. Provided technical review of site conditions, wetland delineation verification, and review of environmental reports included within a wetland permit application for a proposed multi-unit residential development on an approximately 196 acres parcel. Provided recommendations to the Town of East Lyme Inland Wetland Commission for best management practices for development in areas of inland wetlands and vernal pools.

Goodwin and Pope Park Ponds Restoration - Hartford, CT. Served as Soil Scientist/Wetland Scientist for a pond restoration project in two Hartford parks. The project required pond sediment characterization, dredging design, and permitting. Provided sediment analytical data review. Completed Connecticut and ACOE wetland delineations for the ponds and surrounding wetland areas. Conducted wetland and wildlife characterization surveys. Developed wetland enhancement/restoration planting schemes for aquatic, emergent, herbaceous, shrub, and tree zones along pond perimeters and assisted with pond bottom re-grading recommendations. Completed state, federal, and local wetland permit applications for the project.

Vernal Pool Study, Chester, CT. Completed a vernal pool identification and assessment project for a 250-acre parcel in association with a residential/golf course development. Characterized functions and values of various wetland systems and provided wetland/site environmental management and development recommendations with regard to set-backs and storm water design.

Residential Sub-Division, East Hampton, CT – Completed wetland delineation and assessment on 100 acre former airport site in advance of residential sub-division design. Identified and monitored several Vernal pools to assess the number and type of species utilizing the resources and to assess the potential, associated migration pathways to and from the pools. Developed recommendations for development as part of the inland wetland permit application package.

Wildlife Habitat Enhancement Program Grant Implementation – 55 Acre Parcel, Windham CT. – Completed invasive species identification and removal, brush hogging, and wildlife enhancement shrub plantings for 3 fallow, agricultural fields under a NRCS grant program to help maintain grassland bird species habitat.

Martin Brogie continued

Wetlands Assessment – Utility Corridor – State of Connecticut – Wetlands located within and adjacent to an existing utility corridor were delineated across the state for the proposed installation of a fiber optic cable. Services also include identification of species of special concern and wetland permitting in nearly 20 towns and cities.

Wetland Delineation and Restoration – Chester, Connecticut – The original wetland boundary of an illegally filled area was delineated for purposes of site restoration. A wetland restoration plan was prepared and presented to the local Wetlands Commission. The plan mimicked the native wetland border and provided a planted upland buffer to foster wildlife use.

Summary of Experience

Maureen A. Bowman has 15 years of experience and extensive work in Section 106 consultation and NEPA compliance reviews. In addition, she has experience in architectural field surveys, cultural resources surveys, assessing National Register eligibility of historic structures and sites, National Register Nominations, building documentation and building condition assessment.

EBI CONSULTING- Burlington, MA

Senior Architectural Historian – December 2019 – Present

Ms. Bowman's duties at EBI Consulting include facilitating the environmental review process to ensure client's compliance with Federal Communications Commission (FCC) requirements under the National Environmental Policy Act (NEPA). Ms. Bowman's compliance work, on behalf of clients, has resulted in her directly working with federal and state agencies including the Advisory Council on Historic Preservation, the National Register Division of the National Park Service, the Federal Communications Commission, and many State Historic Preservation and Tribal Preservation offices.

SEARCH, Inc- Orlando, FL

Architectural Historian – April 2018 - December 2019

Ms. Bowman's duties at SEARCH included research and field work to evaluate properties for National Register of Historic Places eligibility under the provisions of Section 106 of the National Historic Preservation Act.

EBI CONSULTING- Burlington, MA

Senior Architectural Historian – February 2006 – January 2017

Ms. Bowman developed a thorough understanding of federal regulations to provide technical assistance to wireless industry clients. Facilitated NEPA compliance process for numerous telecommunications projects, with emphasis on those requiring SHPO/THPO consultation. Worked with state and local commissions to develop memoranda of agreements (MOA) to mitigate adverse effects of telecommunications installations.

Relevant Project Experience

SEARCH, Inc. – Principal Investigator for historic resources survey and report preparation for the New England Clean Energy Connect transmission line corridor, multiple counties, Maine. Conducted survey and documentation of historic properties along proposed transmission line routes, made recommendations for further intensive survey and evaluation.

SEARCH, Inc. – Principal Investigator for Ocean Wind offshore wind farm, multiple towns, New Jersey. Conducted survey and documentation of historic properties along proposed utility routes to bring power to shore; and performed visibility assessment of wind turbines from onshore historic resources. Made recommendations for further intensive survey and evaluation.

EBI Consulting - Performed a Cultural Landscape Study for the Cascade County Historic Preservation Commission, Great Falls, MT as part of a MOA. Performed Determination of Eligibility assessments for properties in Massachusetts and Maine. Performed historic district survey update for 100 properties in the Plymouth Historic District for Town of Plymouth, MA

Eastern Michigan University, thesis project - Successful National Register nomination of the Suncook Village Historic Commercial/Civic District for the Town of Pembroke, New Hampshire and a preliminary preservation plan for the downtown area.

Mount Auburn Cemetery, Cambridge, MA - Involved in developing a field survey form to document and assess the condition of the monuments and memorials. Implemented the field survey and helped develop a Microsoft Access database to record the collected information. Performed photographic documentation of all mausoleums in the cemetery.

Education

2004 M.S., Historic Preservation - Eastern Michigan University

1998 B.A., Art History and Studio Art - Indiana University

2009 Coursework for Graduate Certificate, Sustainable Design - Boston Architectural College

Professional Affiliations

Historic New England

National Trust for Historic Preservation

Society of Architectural Historians

Vernacular Architecture Forum

SUMMARY OF EXPERIENCE

Elaine Langer is a Project Manager with over 13 years of experience specializing in environmental investigations and site assessments. In addition, Ms. Langer has extensive experience conducting NEPA land use surveys and asbestos and lead paint assessment and sampling.

Ms. Langer has conducted hundreds of environmental assessments/due diligence assignments for a wide range of properties throughout the northeastern United States.

RELEVANT PROJECT EXPERIENCE

ENVIRONMENTAL SITE ASSESSMENTS. Ms. Langer has conducted ASTM Phase I Environmental Site Assessments, Environmental Impact Assessments and ACM and LBP Surveys for various clients and has prepared Phase I and NEPA compliance reports for a variety of properties located in the northeastern United States. These properties have included industrial, commercial, retail and multi-family residential properties, as well as telecommunications sites.

MOBILE TELECOMMUNICATION SITE ASSESSMENTS. In addition to environmental assessments, Ms. Langer has prepared NEPA land use surveys and Environmental Assessments for telecommunications sites throughout the northeastern United States. Environmental reviews include analysis of historic properties, wetlands, endangered/threatened species, critical habitat, floodplains and other areas of environmental concern and the possible impacts of cellular installations on these sensitive areas.

FLOODPLAIN/WETLAND INVESTIGATIONS. Ms. Langer has experience with wetland and floodplain permitting for telecommunications sites. Ms. Langer is formally trained in performing wetland delineations and identifying key wetland vegetation and soils. Additionally, Ms. Langer has performed long term mitigation of Wetland communities in the area of telecommunications towers.

EDUCATION

B.S., SUNY Environmental Science and Forestry (Environmental Forest Biology)

PROFESSIONAL AFFILIATIONS

NYS Licensed Asbestos Building Inspector
State of Connecticut Asbestos Inspector
Pennsylvania Asbestos Inspector
Wetland Delineation Certification, Rutgers University

Robert C. Russo, CSS

Soil Scientist/Environmental Scientist/Biologist

EDUCATION:

Wesleyan University
B.A. Biology/Psychology 1982

Yale University
M.E.S. Environmental Studies

REGISTRATION:

Certified Soil Scientist
Society of Soil Scientists of Southern New England

BACKGROUND SUMMARY:

2002 – Present	Soil Scientist CLA Engineers, Inc.
1998 – 2002	Owner/Principal Scientist Environmental Planning & Soil Science
1993 – 1998	Senior Environmental Scientist VHB Inc.
1990 – 1993	Environmental Scientist Atlantic Environmental Services

GENERAL BACKGROUND:

Mr. Russo has been involved with wetland and environmental investigations and permitting throughout Connecticut. His experience includes utility, roadway, commercial and residential projects. He is familiar with permitting requirements on the local, State and Federal Levels.

SPECIFIC PROFESSIONAL EXPERIENCE:

* November 2002 - Present - CLA Engineers, Inc., - Mr. Russo is a soil and environmental scientist in the firm and has performed wetland delineation, environmental investigation, and permitting task on projects including relating to utilities, roadway reconstruction, residential subdivision, and commercial development.

* September 1998 – November 2002– Environmental Planning & Soil Science LLC, Ivoryton, CT. Mr. Russo specialized in wetland delineation and permitting and performed pre-design environmental constraints analysis, wetland permit preparation, layout of sedimentation and erosion control measures, wetland function evaluation, wetland mitigation design and monitoring, and on-site construction inspection. Work also included acting as liaison with local Inland Wetlands Agencies, CTDEP and the Army Corps of Engineers.

* December 1993 - August 1998 VHB Inc. Middletown, CT. responsibilities included both technical and managerial aspects of projects. Work included preparation of National Environmental Policy Act (NEPA) documents; local, State, and Federal environmental permit applications; project management; client liaison; staff supervision.

* September 1990 – December 1993 Atlantic Environmental Services, Inc, Colchester, CT. Responsibilities included both technical and managerial aspects of hazardous waste and ecological projects.

Robert C. Russo, CSS

Soil Scientist/Environmental
Scientist/Biologist

AREAS OF EXPERTISE:

- * Wetland Delineation per State of Connecticut and United States Army Corps of Engineers criteria
- * Connecticut tidal wetland delineation
- * Wetland functional assessment
- * Wetland mitigation, creation and restoration and monitoring/inspection
- * Vernal pool studies
- * Site wide vegetative inventories
- * Threatened, Endangered, and Special Concern Species investigations and targeted site searches
- * Sedimentation and erosion control planning and inspection
- * Storm water management planning and permitting
- * Soils investigation and mapping
- * Site constraints analysis
- * GIS site analysis
- * GPS wetland and resource mapping
- * Site reconnaissance survey and constraints analysis
- * Soils investigations for sand and gravel excavation
- * Soils investigation and permeability testing for septic systems
- * Pollutant and Water Quality Modeling
- * Environmental Impact Assessment

PERMITTING EXPERIENCE:

- * Local, State, and Federal wetland permit preparation
- * CTDEP Water Diversion
- * CTDEP Stream Channel Encroachment
- * CTDEP Stormwater permits for Commercial, Industrial, Construction sites
- * CTDEP Water Quality Certification
- * National Environmental Policy Act (NEPA) document preparation
- * Connecticut Environmental Policy Act (CEPA) documentation preparation
- * Coastal Management Consistency
- * Coastal Permitting
- * Compliance with Endangered Species Act

Robert C. Russo, CSS

Soil Scientist/Environmental
Scientist/Biologist

DETAILED EXPERTISE: Herptiles

- * Conducted Box Turtle Survey on +200 acre site in north central CT
- * Conducted Box Turtle Survey on +40 acre site in central CT
- * Was part of a team that conducted detailed herpetological inventory of +1000 acre site in south central CT
- * Conducted detailed habitat and species inventory on a +400 acre site in Sprague CT
- * Conducted habitat and species inventory for several 3 to 10 mile long linear transportation projects.

DETAILED EXPERIENCE: Education

- * Prepared and taught unit on soils to second graders.
- * Prepared and taught unit on soils to high school ecology class
- * Prepared and taught unit on vernal pools to middle school science class
- * Prepared and taught multiple units on the Clean Water Act and MS4 stormwater to local municipalities.

DETAILED EXPERIENCE: Grant Writing

- * Prepared successful CTDEEP open space grant for +400 acre site for Town of Sprague
- * Assisted in preparation of successful CTDEEP open space grant for the Town of Westbrook

PAUL H. ZITO

PO Box 475

Center Ossipee, NH 03814

(203) 331-2424

OBJECTIVE

To provide leadership and technical skills in the design, installation and operation of sophisticated interoperable telecommunication systems.

SUMMARY

- Knowledgeable in system design of complex systems with excellent skills in transforming concepts into working designs.
- Excellent communication skills with strong ability to interact with all levels of management
- Meticulous and exacting work habits with strong supervisory and training skills.
- Computer literate: Working knowledge of software used for RF intermodulation calculations, microwave radio path calculations, radio frequency propagation, database, graphics, word processing, and synchronous communications
- F.C.C. General Class Radio-telephone License #PG-1-66668
- APCO Certified Radio Technician #1-6616

EDUCATION

- State University of New York, Farmingdale, 1972
- AS degree in Electrical Technology
- Ericsson GE, EDACS (trunking) training school, 1992
- Motorola Astro (trunking) training school, 2006
- FEMA COML certified, 2009
- FEMA NIMS certified, 2009

EXPERIENCE

Owner of New England Radio Consultants LLC, March 2013 to present.

- Provide consulting services to the public safety community.
- Proven history of vendor neutrality.
- Able to work with a vast variety of manufactures and vendors to deliver quality public safety communications solutions.
- Experienced in project management, system experience and implementation.
- Experienced with simplex and simulcast systems.
- Experienced with analog and digital systems.
- Well versed in TIA R56 grounding standards

Connecticut Public Safety Director of Telecommunications, State of Connecticut Department of Emergency Services and Public Protection, Division of State Police July 2009 to March 2015(retired)

- Responsible for the overall operation of the \$160 million dollar Connecticut Statewide Interoperable Communications systems.
- Responsible for expansion and technology refresh of all systems including conventional, P25 P2 Trunked and analog systems
- Supervised 9 employees and major contractors
- Interfaced with federal agencies on a “need to know” bases

Telecommunications Engineer II, State of Connecticut Department of Public Safety, Division of State Police November 2000 to 2009

Responsible for the supervising and managing of the Motorola and various subcontractors involved in the implementation for the State Police statewide radio system.

- Supervised the Electronic Maintenance Unit. This unit consisted of 2 lead Technicians, 7 Electronic Technicians and 1 secretary.
- Specify and evaluate telecommunications equipment and systems for the Department of Public Safety use.
- Represent the Department of Public Safety to other State, Federal and local entities.

Telecommunications Engineer I, State of Connecticut Department of Public Safety, Division of State Police November 1996 to March 2000

- Responsible for the primary design and writing of the RFP for the State Police statewide radio system.