Bradley J. Parsons, PE, PMP
Director of Design and Permitting

Verogy
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General Background

Brad joined Verogy in June of 2021. Brad has 20 years of professional experience in project management, renewable energy, civil and transportation engineering, permitting, and construction management; including fieldwork, concept studies, site layout, grading, drainage systems, roadway construction, reconstruction and rehabilitation design, erosion and sedimentation control, state and local permits, and construction administration and inspection.

Brad previously served as Manager of Civil Engineering at All-Points Technology Corporation for five years, where he focused on design and permitting of utility projects including Solar, Fuel Cell's, Electrical Transmission, and Telecommunications. During that time Brad was involved in the design, permitting, and/or construction administration of over 150MW of solar projects.

Prior to joining All-Points, Brad worked at The United Illuminating Company where he was responsible for transmission and substation projects. He also worked as a civil engineer on a multitude of different projects including gas transmission lines, highway and roadway design, streetscapes, and commercial and residential developments.

Brad is a licensed Professional Engineer in the States of Connecticut, Massachusetts, New York, and Rhode Island.

Representative Projects

Verogy Solar 2020 Program,

Served as the Program Manager for the development of a series of five ground-mount solar arrays, totaling approximately 17MW, in Connecticut. These projects, situated on a varying range of forest and farm land, were all designed and submitted for Siting Council permitting in parallel over seven months. The development of these concurrent projects required significant coordination with both internal and external project team members to meet the aggressive schedule. Project responsibilities to date included the following preparation design drawings, pre-/post-condition drainage analysis, erosion and sedimentation control design, environmental assessment, NDDB coordination, rare plant surveys, vernal pool surveys, Siting Council petition support including remote field reviews, and SWPCP development.

Enertis IE and OE Civil Engineering Support

Served as Senior Engineer as both an Independent Engineer or Owners Engineer for the review of Civil Site Plans and Permits for the development of solar projects across the United States, including CA, MN, NY, NC, OR, and TX. The projects ranged in size and complexity, from as small as 2MW up to 171MW. Responsibilities include review and comment on all civil drawings, permits, and SWPPP and when serving as the OE further recommendations to improve project development. Completed over 100 project reviews.

Bloomfield BOE – CT SCEF Pilot Program,
Served as the Project Manager for the design and permitting of this 2MW solar that was the first project completed under Connecticut's Shared Clean Energy Facility Pilot Program. In addition to being the first project under this pilot program, it involved the permitting the project in a wet meadow defined as wetlands in the CT. Project responsibilities included the following preparation design drawings, erosion and sedimentation control design, wetland mitigation, local wetland and planning & zoning permitting, USACOE permitting, and construction monitoring. This project was completed in 2019.

CT Solar Array Projects,
North Canaan, CT – 2.80MW; Thompson, CT – 3.75MW; Putnam, CT – 0.35MW; Pawcatuck, CT – 25.0MW; Sprague, CT – 20.0MW; Durham, CT – 2.0MW; Middletown, CT – 1.9MW; Old Lyme, CT – 1.9MW; Old Saybrook, CT – 1.9MW; Killingly, CT – 1.80MW; East Hampton, CT – 1.9MW; Simsbury, CT – 26.4MW; North Canaan, CT – 1.9MW; North Branford, CT – 1.9MW
Served as the Project Manager for the development of a series of ground-mount and carport solar arrays installed and proposed throughout Connecticut. These projects, situated on a varying range of public and private open-space types, involve a rapid design, permitting, and construction schedule requiring precise and expedient execution of all deliverables. Project responsibilities varied by project, but could have included the following preparation design drawings, pre-/post-condition drainage analysis, erosion and sedimentation control design, peer review, Siting Council permitting, local permitting, SWPCP when required, and construction monitoring. These projects consist of projects that have been completed or are currently in development.

Eversource Transmission Line Rebuild Projects
Served as Project Manager/Lead Engineer for the development of the SWPCP Drawings and Permit for over 10 projects totaling over 100 miles of transmission line right of way. As part of each of these projects the responsibilities included the layout and grading of work pads and access roads for the construction of the transmission line. Erosion and sedimentation control design was also included for each of the projects. APT also prepared a SWPCP for each project and submitted the required permit to CT DEEP for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities.

Atlantic Sunrise Pipeline, Williams, Pennsylvania
Served as Engineering Manager responsible for the oversight of design and QA/QC for access roads and main line value pads on this 200-mile long natural gas pipeline project, stretching though five counties in eastern Pennsylvania. Project responsibilities include the layout and design of permanent and temporary access roads and main line valve pads, pre- and post-condition drainage analysis, erosion and sedimentation control design, post construction stormwater management plans, site restoration plans, report preparation. Brad oversaw a team of engineering's working to complete this project and performed quality control reviews of the plans and reports. Additional responsibilities include coordination with other project consultants and client.

Bloom Fuel Cell Engineering and Permitting Support
Served as Project Manager responsible for the oversight of engineering and permitting support for the installation of Bloom Fuel Cells throughout Connecticut and Massachusetts. Provide Connecticut Siting Council and Local Permitting support for over 40 projects including a 10MW site in Colchester, CT. Project responsibilities include the development of permitting plans, engineering coordination, local permit applications and submittals, petition preparation, stormwater management plans, and construction support.

Constitution Pipeline, Williams, New York and Pennsylvania
Served as QA/QC support for the preparation of detail figures for environmental permitting, erosion and sedimentation control plan (E&SCP) and stormwater pollution prevention plan (SWPPP) for a 120-mile long gas pipeline extending from Susquehanna County, Pennsylvania to the Iroquois Gas Transmission and Tennessee Gas Pipeline systems in Schoharie County, New York.

MA Solar Array Projects,
Pittsfield, MA – 1.75MW; Charlton, MA – 0.50MW; Monson, MA – 6.50MW Leicester, MA – 3.25MW; Sutton, MA – 1.70MW; Warren, MA – 8.30MW; Florida, MA – 3.74MW; Chelmsford, MA – 1.08MW; Pittsfield, MA – 3.95MW; Martha's Vineyard, MA – 1.0MW; Harwich, MA - 0.75MW; Attleboro, MA - 0.35MW;
Served as the Project Manager for the development of a series of ground-mount and carport solar arrays installed and proposed throughout Massachusetts. These projects, situated on a varying range of public and private open-space types, involve a rapid design, permitting, and construction schedule requiring precise and expedient execution of all deliverables. Project responsibilities varied by project, but could have included the following preparation design drawings, pre-/post-condition drainage analysis, erosion and sedimentation control design, and specifications, peer review, SWPCP when required, local land use permitting, post closure landfill permitting, and construction monitoring.

National Grid, Uxbridge Substation, Uxbridge, Massachusetts
Serves as Project Manager for this project under our Civil MSA responsible for managing the project team, budget, and schedule. Brad oversaw the conceptual design and planning, construction documents required to support the development of a project to address access issues to the Uxbridge Substation. The project includes site visit to assess existing conditions, preparation of concept planning, site and drainage design, erosion and sedimentation control design, permitting, and project estimating. This project was completed in 2016.

The United Illuminating Company, New Haven Harbor Station Peaking Generation Interconnection, New Haven, Connecticut
Served as Project Manager for the interconnection of PSEG Power's proposed 130-megawatt peaking generator at their New Haven facility to UI's East Shore substation. The interconnection involved the installation of a new takeoff structure, two circuit breakers, disconnect switchers, relay upgrades, foundations, ground grid, and conduit. Additionally, two new circuit breakers at the West River switching station were required. This project along with other fault duty mitigation projects at East Shore, West River, and Water Street stations were required to be complete prior to the generator coming online. This project was completed in 2011.

Bridgeport Fuel Cell Park, Bridgeport, Connecticut
Served as Electrical Project Manager for the construction of 15MW Fuel Cell power generating facility, currently the largest of its kind in North America and the second largest in the world. The fuel cell park consists of five 2.8MW modules developed and manufactured by Fuel Cell Energy and an organic rankine cycle turbine rated at 900kW to capture and utilize the waste heat. Project responsibilities included management of up to 15 electricians, planning of a phased implementation, material procurement, utility commissioning coordination, project scheduling, and financial management, and project closeout. This project was completed and commissioned on schedule in November of 2013.

Middletown-Norwalk Project, Northeast Utilities, Middletown to Norwalk, Connecticut
Served as Project Manager/Project Engineer responsible for managing the project team, budget, and schedule for transportation engineering services provided for the design of a proposed underground and overhead 345-kV transmission line project from Middletown to Norwalk. Specific tasks under this contract involved traffic, transportation, structural engineering, permitting, planning, project management, and construction inspection/administration services.

Employment History

BL Companies, 355 Research Parkway, Meriden, Connecticut
- Staff Engineer/Project Engineer/Project Manager, June 2003 to September 2009

The United Illuminating Company, 180 Marsh Hill Road, Orange, Connecticut
- Senior Project Manager, September 2009 to May 2013

A/Z Corporation, 46 Research Parkway, Meriden, Connecticut
- Senior Project Manager, May 2013 to November 2013

BL Companies, 100 River Ridge Road, Norwood, Massachusetts
- Project Manager, November 2013 to April 2016

All-Points Technology Corporation, 567 Vauxhall Street Ext., Suite 311, Waterford, Connecticut
- Manager of Civil Engineering, April 2016 to June 2021

Verogy, 124 LaSalle Road, 2nd Floor, West Hartford, Connecticut
- Director of Design and Permitting, June 2021 to Present

University of Hartford, Civil Engineering, May 2003

Licensed Professional Engineer, State of Connecticut PE No. 26025
Licensed Professional Engineer, State of Massachusetts PE No. 51076
Licensed Professional Engineer, State of Rhode Island PE No. 11240
Licensed Professional Engineer, State of New York PE No. 101687

Bryan Fitzgerald
Co-Founder, Director of Development

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General Background

Bryan was a part of the founding team of Verogy in December of 2017. Bryan has 9 years of professional experience in the Renewable Energy Industry including a focus on, analytics, project development, solar project origination, real estate acquisition and contracting, financing, municipal permitting, utility interconnection, regulatory research and compliance, and state level renewable energy permitting in Connecticut. Since Verogy's founding, Bryan has originated over 65 Mega-watts of ground mounted and rooftop solar projects in Connecticut. More than fifty percent of those mega-watts have been successfully installed and are operating today in Connecticut Renewables programs such as LREC / ZREC (Municipal and Agricultural Virtual Net Metering), Shared Clean Energy Facility Programs (SCEF), and Non-residential Renewable Energy Programs (NRES).

Bryan previously served as an Analyst and Project Developer for a Connecticut based Solar Developer from 2015 through 2017. During this time Bryan was responsible for project level financial analytics, financial modeling, model building, and reporting. Bryan also worked on several CT DEEP Class One Renewable RFP opportunities that resulted in RFP awards and eventual project completions.

Prior to starting a professional career in the Renewable Energy space, Bryan attended The University of Connecticut and studied Environmental Science and Natural Resources.

Representative Projects

Verogy "Solar One" Portfolio, 2019-2022

Led the origination and development of a series of six ground-mount solar arrays, totaling approximately 30 Mega-watts, in Connecticut. These projects, situated on a varying range of forest and farm land, were all designed and submitted for Siting Council permitting in parallel over seven months. The development of these concurrent projects required coordination with six different municipalities, and three state agencies. Project responsibilities to date included real estate acquisition and contracting, renewable energy program submissions (LREC / ZREC), municipal consultation on both the site development, and land use, as well as municipal participation in Virtual Net Metering offtake, coordination with the project Engineer of Record on civil and electrical design, community engagement and neighboring landowner meetings and presentations, planning and zoning and wetlands commission presentations, state agency consultation with CT DEEP and CT Department of Agriculture, and Connecticut Siting Council filings through both the Petition for a Declaratory Ruling, and Application for a Certificate of Environmental Compatibility and Public Need.

Led the development and integration of Verogy's agricultural co-use program through close collaboration with the Connecticut Department of Agriculture and several agricultural partners in the farming community in Connecticut, New York, and Massachusetts. Through the first two years of project operations, Sheep have actively grazed almost 100 acres of land that also hosts approximately 19 Megawatts of ground mounted solar projects in Connecticut.

Shared Clean Energy Facility Program (SCEF)

Leads the development and origination efforts for participation in Connecticut's Shared Clean Energy Facility Program. Since SCEF program inception, Verogy has been awarded projects in Years One, Two, and Four of the annual program auctions. More specifically in Year One Verogy was awarded two projects for 5 Mega-watts of capacity, in Year Two Verogy was awarded one project for 3 Mega-watts of capacity, and in Year four Verogy was awarded five projects for almost 18 Mega-watts of capacity. Currently one project for 4 Mega-watts of capacity is under construction while the other six are in varying stages of development and permitting.

Verogy's 26 Mega-watts of awarded projects would produce over $21MM in SCEF Subscriber savings over the 20-year duration of each SCEF project, sixty percent of annual credits are required to be allocated to LMI customers located in Connecticut.

Non-residential Renewable Energy Solutions Program (NRES)
Supporting team member in the origination, development, and financing of five landfill (ballast-mounted) solar projects that have secured awards through the annual NRES competitive auctions. Each of the five host municipalities will be participating and receiving either lease revenue of on bill credits as a result of the development and installation of each project. these five projects represent approximately 6 Mega-watts of zero emission renewable energy generating capacity awarded in years one and two of the NRES program.

Education
University of Connecticut, Environmental Science and Natural Resources, 2015

ANDREW R. ROLAND

Senior Project Manager, Environmental Engineer

PROFESSIONAL PROFILE

Mr. Andrew Roland has more than 15 years of environmental engineering and professional consulting experience. His areas of expertise include environmental and occupational acoustics and attenuation, air quality source permitting and compliance, industrial ventilation and air pollution control design, hazardous and flammable materials process safety and risk management, and facility decontamination and closure. He has effectively provided industrial and commercial clients with a full range of engineering services in the fields of manufacturing, life sciences, biotechnology, aerospace, metals finishing, recycling, and energy industries.

Acoustical Engineering

Mr. Roland possess a wide range of experience and expertise in assessing environmental and occupational noise and acoustics engineering scenarios. He is proficient in developing and executing environmental and occupational noise monitoring protocols (i.e., sampling plans) and has completed numerous sound level measurement analyses to assess a variety of noise sources, including traditional power generation, wind power, solar power, municipal wastewater, commercial, institutional, and industrial facilities. He is trained to perform sophisticated acoustical modeling using GmbH SoundPLAN, DataKustik CadnaA, and the U.S. Federal Highway Administration's (FHWA's) Traffic Noise Model (TNM) software; and, he has developed numerous customized sound propagation and attenuation prediction models based on International Organization for Standardization ISO 9613-2, and other scientific standards. He has designed various noise attenuation structures, validated compliance, managed regulatory approval for projects, and presented noise impact results to various stakeholders, including clients, residents and state and local regulatory agencies throughout New England, New York, and New Jersey. Mr. Roland has consistently demonstrated an excellent understanding of acoustics and noise measurement best practices, is experienced with a wide array of noise monitoring and meteorological measurement equipment, has developed a knowledge of many federal, state, and local noise standards and guidelines, and can analyze and interpret sound level measurement results with accuracy, independence, and objectivity.

QUALIFICATIONS

Education

M.S., Civil & Environmental Engineering, Tufts University, Medford, MA	2015
B.S., Physics, Colby College, Waterville, ME	2007

Professional Development

Industrial Hygiene Workshop, WSP, Rockville, CT	2023
Acoustics & Attenuation Technical Training Seminar, Sound Seal, Agawam, MA	2016
Best Practices in Project Management & Engineering Ethics, ZweigWhite, Boston, MA	2012
CadnaA Model Advanced User Training, DataKustik, Boston, MA	2007
Understanding Noise & Vibration, Brüel & Kjaer, Natick, MA	2007

PROFESSIONAL HISTORY

WSP, Senior Project Manager, Chelmsford, MA	2020 – present
Wood PLC, Project Engineer (on-call), Chelmsford, MA	2015 – 2020
Aquest Corporation, Engineering Manager, Somers, CT	2015 – 2020
AmecFW, Project Engineer, Chelmsford, MA	2013 – 2015
Capaccio Engineering, Environmental Scientist, Marlborough, MA	2012 – 2013
EBI Consulting, Environmental Scientist, Burlington, MA	2010 – 2012
Tech Environmental, Environmental Scientist, Waltham, MA	2007 – 2009

PROFESSIONAL EXPERIENCE

Comprehensive Community Acoustical Study, Wheelabrator (WIN Waste), Saugus, MA ***2020 – 2021***

Mr. Roland studied community sound levels in neighborhoods surrounding a large waste-to-energy facility. The study encompassed the communities of Saugus, Revere and Lynn, Massachusetts and sought to assess facility daytime and nighttime operational sound level impacts. The Study was performed as required by the Massachusetts Department of Environmental Protection (MassDEP) and Town of Saugus Board of Health and sought to identify and evaluate sources of sound in a densely populated suburban area. He developed a noise sampling protocol, coordinated field personnel, and trained staff to conduct daytime and nighttime noise monitoring surveys, analysed monitoring data using sophisticated statistical techniques, and wrote the environmental noise study report for presentation to the regulatory authorities. Before, during and after the study, Mr. Roland presented status updates and findings during several public outreach sessions and during Tow of Saugus Board of Health meetings.

Community Noise Monitoring Evaluation, Coastal Distribution, Paterson, NJ ***2020***

Mr. Roland developed comprehensive noise sampling protocol, coordinated field personnel, and trained staff to conduct daytime and nighttime noise monitoring surveys, analysed monitoring data, and wrote the environmental noise study report for Coastal Distribution's transfer and materials recovery facility located in Paterson, New Jersey. The noise monitoring evaluation was performed to address a Notice of Violation (NOV) issued by the New Jersey Department of Environmental Protection (NJDEP). The environmental noise from Facility operations were assessed at the property line and at the closest noise sensitive residential receptor locations. The initial noise monitoring results indicated that the facility operations were not in compliance with NJDEP or local City of Paterson noise level limits.

Noise Abatement Design & Validation, Coastal Distribution, Paterson, NJ ***2021 – 2022***

Mr. Roland collected source-specific sound level measurements, computed source sound power calculations, completed environmental noise modeling analysis, gathered attenuation equipment design data, and wrote the noise attenuation conceptual design report for Coastal Distribution's transfer and materials recovery facility located in Paterson, New Jersey. The initial noise monitoring evaluation measured a non-compliance condition at the facility (see project above). The attenuation design report sought to provide a systematic quantitative review of the various noise attenuation options and provided client with specifications for several possible attenuation and mitigation design approaches to address the various sources of noise at the transfer station. Accurate 'attenuated-design' sound level predictions were made using SoundPLAN modeling software and other industry-accepted sound propagation techniques. After design recommendations were implemented at the facility, Mr. Roland performed confirmatory noise measurements to verify attenuation measure effectiveness and demonstrate compliance with NJDEP and City of Paterson noise level limits.

Noise Modeling Study & Abatement Design, Braintree Electric Light, Braintree, MA ***2014 – 2015***

Mr. Roland was responsible for developing and conducting a community noise sampling study to establish background sound levels surrounding the Braintree Electric Light power plant in Braintree, Massachusetts. The initial monitoring surveys determined that the facility was not operating in compliance with the MassDEP permit requirements, and Mr. Roland was tasked with performing near-field source sound level measurements and spectrum analysis to determine the source to which the noise was most attributed. After establishing the primary source(s) of the nuisance noise, Mr. Roland was tasked with designing and specifying multiple noise barrier walls to adequately attenuate the offsite sound levels. He then built and executed a series of sound models using CadnaA and SoundPLAN modeling software to simulate future sound levels after facility expansion and reconfiguration.

Environmental Sound Monitoring Evaluation, City Carting and Recycling, Stamford, CT ***2020***

Mr. Roland collected daytime and nighttime sound level measurements, post-processed and summarized the data collected, evaluated code compliance to various types of receptor properties, and wrote the environmental noise impact study report as part of the noise evaluation conducted at the City Carting & Recycling facility in Stamford, CT. The report summarized the results for the noise monitoring performed in support of the proposed extension of the recycling processing facility hours of operation. The sound levels from the recycling operations were assessed at the property line of the site and at noise sensitive receptor locations. The results demonstrated that the recycling operations complied with Connecticut Department of Energy and Environmental Protection (CT DEEP) and City of Stamford nighttime noise level limits.

OTHER EXPERIENCE

Noise Monitoring & Measurement

Mr. Roland has completed numerous sound level measurement and monitoring analyses to assess a variety of environmental and community noise scenarios, including traditional power generation, wind and solar power, municipal wastewater, commercial, institutional, and industrial facilities. He has performed extensive daytime and nighttime, short- and long-term, ambient- and source-specific monitoring assessments using different measurement strategies and monitoring equipment. He has worked to develop and design noise monitoring protocols and written compliance reports in numerous states and local jurisdictions. Notable projects include:

WIN Waste Truck Terminal	Londonderry, NH
Charlton Hospital	Charlton, MA
Ventures Millwork	Canaan, CT
Beth Israel Deaconess Hospital	Needham, MA
Beverly Hospital	Beverly, MA
Brockton Power Plant	Brockton, MA
CPV St. Charles Power Plant	St. Charles, MD
Lake Road Generating	Dayville, CT
Rochester Gas & Electric	Rochester, NY
Rye Lake Water Treatment Facility	Rye, NY
The Cape Wind Off-Shore Project	Nantucket Sound, MA
Fairchild Residential Development	Woodbridge, NJ
Stamford Harbor Development	Stamford, CT
DePuy Orthopedics	Raynham, MA
Jordan Hospital	Plymouth, MA
Cohasset Wind	Cohasset, MA

Noise Modeling & Mitigation

Mr. Roland has performed numerous environmental noise propagation modeling assessments. He is trained to perform sophisticated three-dimensional noise modeling using various specialized software. In addition, he has developed numerous spreadsheet sound propagation and attenuation prediction models based on industry accepted calculation standards. Mr. Roland has also performed several environmental noise spectrum analyses for a variety of purposes. He has assisted clients in determining the source of community nuisance noise conditions, evaluated the effectiveness of various control strategies, and conducted pure-tone and resonance frequency assessments. Notable projects include:

Blue Phoenix Resource Recovery Facility	Putnam, CT
Saint Gobain Abrasives Regenerative Thermal Oxidizer	Worcester, MA
Boston Medical Center Combined Heat & Power Plant	Boston, MA
75 Arlington Street Emergency Generator	Boston, MA
Wheelabrator Westchester Power Station	Westchester, NY
Wheelabrator Waste Transfer Station	Shrewsbury, MA
26th Ward Water Pollution Control Plant	Brooklyn, NY
Italy & Prattsburgh Wind Farm	Italy, NY
Clearwire Telecommunications	San Diego, CA
Sprint/Ericsson Telecommunications	Sunnyvale, CA
Verizon Wireless	Various Locations
Hyannis Wind Project	Hyannis, MA
Kingston Wind	Kingston, MA

ROBERT C. BURNS, P.E.
Program Manager

All-Points Technology Corporation, P.C.
567 Vauxhall Street Ext., Suite 311
Waterford, CT 06385

General Background

Robert Burns has been providing civil engineering and site development services to clients since 1986. His experience includes highway/roadway design, sanitary sewer and septic system design, water mains, grading, drainage, site layout, and permitting. He has designed roadway improvement projects, corporate office parks, industrial complexes, retail centers, and numerous telecommunication facilities.

Representative Projects

Renewable Energy Facilities
Responsible, as Engineer of Record, for the site layout and design of solar and fuel cell renewable projects under the jurisdiction of the Connecticut Siting Council and municipalities, including stormwater management design and permitting. Projects include multi-acre solar ground-mount facilities, solar canopies, and fuel cell facilities.

Telecommunication Facilities
Project Manager responsible for the site feasibility, layout, permitting, and design of numerous raw land, rooftop, and co-location telecommunication facilities throughout the Northeast. Services overseen include surveying, geotechnical, environmental, electrical engineering, civil and structural engineering, and construction management.

Polamer Precision, New Britain, Connecticut
Served as Senior Engineer for the construction of a 147,750 square foot manufacturing/warehouse building with associated office space on an 8.25-acre lot at Pinnacle Park in New Britain, which was formerly a multi-unit housing complex.

Sanitary Sewer Separation Project, New Haven, Connecticut
Design Engineer responsible for storm water design for the Sanitary Sewer Separation Project, as well as inspection during construction.

Animal Control, Humane Society and Veterinary Clinic Facility, Meriden, Connecticut
Project Manager responsible for the conceptual site design for a new combined Animal Control/Humane Society/Veterinary Clinic facility on City property. Included in the initial site investigation was a concept plan to fit a predetermined City property, as well as schematic architectural floor plan and elevation drawings. The chosen parcel was the location of the outdated Meriden Animal Control building, and care was taen in the placement of the new facility and parking lot to allow for continued use of the existing facility during the building cycle.

Higby Road Reconstruction, Middletown, Connecticut
Project Engineer responsible for the reconstruction of this 4,950-foot roadway. The project included geometric design, drainage system design, permit preparation, construction estimates, the coordination and preparation of all construction documents, and consultation during construction. This reconstructed road features a curbed 30-foot pavement width designed to City and applicable AASHTO and Connecticut Department of Transportation standards and specifications. Critical design elements of the project were the layout and development of storm drainage facilities and the establishment of rock profiles to best control and fix construction cost. Two separate drainage systems were required to service the project. Several other issues were addressed during the design process including shallow rock depth, potential underground utility conflicts, reduction of construction costs, ground water conditions, maintenance and protection of traffic, drainage, an embankment on the west side of the road, and the intersection at Sisk Street.

Connecticut Bridge Rehabilitation Program, Various Locations, Connecticut
Design Engineer responsible for site design projects, including a 500-foot construction access road and 150-space commuter parking lot for the Town of Westport, the design and plan preparation of 1,000-foot roadway for the towns of Middlefield/Middletown, and review of consultants' designs for approach work on all bridges under this program. Prepared news releases to be sent to towns where construction activities would take place.

Yale Avenue Office Buildings, Wallingford, Connecticut
Design Engineer responsible for sanitary sewer design, drainage system design, site layout, and grading for two office buildings on Yale Avenue.

Carriage Village Condominiums, Waterbury, Connecticut
Design Engineer responsible for roadway and parking lot design, site grading, and drainage system design for 360-unit condominium subdivision.

Education B.S. Civil Engineering, Northeastern University

Licenses Professional Engineer, Connecticut #20071

DEAN GUSTAFSON
Professional Soil Scientist
Senior Wetland Scientist

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Waterford, CT 06385

General Background

Mr. Gustafson has been the lead wetland and soil scientist on more than 1,500 development projects in Connecticut and Western Massachusetts over more than 34 years. His background includes NEPA/CEPA documentation, wetlands, water-quality investigations, coastal-zone-management studies, and natural-resource and ecological evaluations. Mr. Gustafson has particular expertise in wetland identification, soil mapping, soil classification, vegetative and hydrology surveys, and wetland impact assessment, mitigation design, and mitigation construction oversight. He has extensive experience in local, state, and federal wetland permitting, including having worked on over 150 Connecticut Siting Council dockets along with providing expert testimony at Council hearings over the past 15+ years. Mr. Gustafson has consulted on numerous projects that involve soils-related issues such as erosion and sediment control planning, vegetative soil stabilization and storm water management BMP evaluation and selection. Mr. Gustafson's water quality experience includes stormwater studies for compliance with National Pollution Discharge Elimination System (NPDES), Section 401 Water Quality Certification, and the 2004 Connecticut DEP Stormwater Quality Manual. He has also served as the Environmental Compliance Monitor on numerous construction projects to ensure compliance with wetland, vernal pool, and rare species protections as conditioned by various local, state and federal regulatory agency authorizations.

In addition to his 34+ years of providing wetland consulting, his expertise as a wetland biologist includes the identification of flora and fauna and evaluation of wildlife habitat functions in both wetland and terrestrial systems, including focused avian, mammalian, invertebrate and herpetofauna surveys using both active and passive methods. Mr. Gustafson also performs targeted surveys for sensitive, rare and listed species that have resolved numerous potential rare species conflicts with proposed developments in coordination with state and federal agencies. In addition, Mr. Gustafson has extensive experience in performing herpetological surveys, including vernal pool investigations and evaluations.

Representative Projects

Industrial Developments, CT and MA

Managed wetland and rare species permitting for several large industrial developments for national Fortune 100 tenants in Connecticut and Massachusetts. Services included performing wetland, vernal pool, rare species and terrestrial impact evaluation studies, preparation of assessment documents, and development of mitigation plans. Responsible for preparation of local, state and federal wetland permits and securing agency authorizations. Projects also included conducting extensive rare species surveys, consultation with state wildlife agencies, preparation of conservation and mitigation plans, and securing agency authorizations. Permitted more than 6 million square feet of industrial warehouse space in Connecticut.

CT Commercial Solar Projects

Served as the lead wetland scientist and biologist for the development of numerous commercial-scale solar facilities throughout Connecticut. Project responsibilities included wetland delineation, function and value assessment, wetland mitigation design, federal wetland permit preparation, rare species surveys and consultations with the Connecticut Department of Energy & Environmental Protection Natural Diversity Data Base, vernal pool surveys, project impact evaluations, construction and wetland mitigation monitoring and Siting Council petition support.

Siting, Licensing and Permitting Consulting Services – Eversource Energy

Since 2016, Dean has assisted Eversource Energy in a variety of projects, providing and overseeing: natural resources inventories of existing flora and fauna, habitat evaluations, wetland delineations and impact analyses, vernal pool surveys, rare species surveys, archaeological and cultural investigations, visual analyses, preparation of technical documents (including applications to the Siting Council, municipalities, and state and federal regulatory agencies), and preparation of state and federal regulatory permitting applications. He has assessed and permitted bulk power substations, transmission lines/structures,

underground utility installations, and existing facilities requiring upgrades. Dean assisted with pre-acquisition due diligence activities; site development feasibility assessments; natural resources inventories of existing flora and fauna; vernal pool studies and assessments; habitat evaluations; wetland delineations, assessments, mitigation designs, and permit compliance monitoring; site layout and design evaluations; erosion and sediment control planning and construction monitoring; vegetative soil stabilization and storm water management BMP evaluations and selection; preparation of technical documents; and, coordination with State and local agencies.

CPV Towantic Energy Center, Oxford, CT
Lead scientist responsible for performing wetland investigations, wetland evaluations, wetland mitigation design and rare species surveys for a proposed 785 MW dual-fueled combined cycle electric generating facility. Prepared the federal wetland permit application and secured Section 404 and 401 authorizations from the Army Corps of Engineers New England Division and Connecticut Department of Energy & Environmental Protection, respectively. Also responsible for developing a wetland mitigation plan, which consisted of two constructed stormwater wetland systems to compensate for the project's unavoidable wetland impacts, as well as coordinating regulatory approval for payment into the Audubon CT In Lieu Fee Wetland Mitigation Program. Also provided supporting application materials to the Connecticut Siting Council and expert testimony at numerous hearings.

National Retailer, Rocky Hill, CT
Responsible for wetland permitting of a multi-tenant retail development resulting in significant unavoidable wetland impacts and the creation of a wetland mitigation area exceeding 1 acre is size. Wetland permits were secured from the Rocky Hill Wetland Agency, CTDEP and U.S. Army Corps of Engineers for wetland impacts and wetland mitigation area.

Telecommunications Carrier Wetland Compliance Program
Project Manager for major telecommunications carrier's wetland compliance program. Responsible for wetland delineation, assessment, mitigation and alternatives analysis, habitat evaluations, vernal pool identification and assessment, design review for permit feasibility, and successful permitting of over 100 wireless telecommunications facilities with local wetland/conservation commissions in the Connecticut, Massachusetts, and Rhode Island market areas including Connecticut Siting Council application and hearing support. Responsible for erosion and sediment control planning and construction monitoring for projects in Connecticut and Massachusetts that represent a potential to impact sensitive wetland and rare species resources during construction.

Connecticut DOT West Haven/Orange Railroad Station, Environmental Assessment
Task manager for assessing natural resources, including wetlands, floodplain, aquatic habitats, and wildlife, associated with a proposed railroad station at one of two possible sites. Prepared technical documents in support of Draft Federal Environmental Assessment/Draft State Environmental Impact Evaluation.

Education	B.S. University of Massachusetts, Plant and Soil Sciences
	Graduate coursework, University of New Hampshire
Affiliations	Member, Town of Lebanon, CT Inland Wetlands and Watercourses Commission (since 1995)
Registrations	Professional Soil Scientist, Society of Soil Scientists of Southern New England (since 1988)
	Connecticut Association of Wetland Scientists
	Association of Massachusetts Wetland Scientists