PROFESSIONAL PROFILE



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209 Shafter Street
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EDUCATION
MS, Environmental Science, University of Maryland, 2018
BA, Biological Sciences, Rutgers University, 2016

PROFESSIONAL LICENSES
Wetland Delineation Certificate, 2021

Shannon Edmonds

Senior Scientist

EXPERIENCE SUMMARY
Seven years of experience: Senior Scientist, Project Scientist, Staff Scientist, and Staff Assistant Scientist at Roux, Islandia, New York.

TECHNICAL SPECIALTIES
Environmental Litigation; Site Investigation and Remediation; Wetland Delineation; Ecosystem Health; Emerging Contaminants.

REPRESENTATIVE PROJECTS

Litigation Support

- **Categorization of Past Environmental Response Costs.** Provided litigation support to Expert Witness for a case between a joint defense group comprised of major insurance carriers (Defendants) and a large international nickel mining company. Case involved the evaluation of 26 mining sites throughout Canada and beyond to understand the nature and extent of contamination at each site, and categorization of past environmental response costs. Reviewed expert witness reports and rebuttals related to insurance case for remediation. Assisted in preparation of the Roux responding report to opposing expert report.
- **Evaluation of Fate and Transport.** Provided support to Expert Wintess for an evaluation for a major oil company involved in a Joint Defense Group against a large multinational industrial company on Onondaga Lake, New York. Case involved the evalution of on-site soil and groundwater contamination, fate and transport of contaminants of concern in groundwater, and partitioning of lake sediment data to evaluation potential sources of petrogenic and pyrogenic PAHs, mercury, chlorobenzene, and PCBs.
- **Evaluation of Fate and Transport.** Provided support to Expert Witness for an evaluation of an auto salvage yard in Chula Vista, California. Case involved petroleum and chlorinated solvent contamination discovered adjacent to 410-acre landfill and a 364-acre residential development during the construction of a roadway. Assisted in preparation of an Expert Report, Rebuttal Report, and a Crossclaim Expert Report regarding contaminant fate and transport, hydrogeologic evaluation, and reasonableness of certain construction and remedial costs related to the discovery of petroleum contamination in multiple perched aquifers.
- **Categorization of Past Environmental Response Costs and Source Evaluation.** Provided support to the Expert Witness in evaluation of over $1M in past environmental response costs related to alleged release from automobile salvage yard in Chula Vista, California. Reviewed historical operations and environmental impacts of neighboring properties and site hydrogeology to evaluate sources of perched groundwater contamination.
- **Evaluation of Past Environmental Response.** Provided support to the Expert Witness in an insurance litigation settlement regarding petroleum contamination at a private home in Nassau County, New York. Evaluated historic documents to determine effectiveness of past environmental responses and rationality of anticipated future environmental costs.
- **Evaluation of Past Environmental Response Costs and Potential Liability.** Evaluated past environmental response costs incurred and potential liability on behalf of an insurance carrier of a potential responsible party (PRP) participating in a Remedial Investigation/Feasibility Study on an industrial waterway in Washington, DC. Completed historic file review and provided support on potential past and future costs to inform an insurance carrier.

- **Categorization of Past Environmental Response Costs and Alternatives Analysis.** Provided support to Expert Witness in an insurance litigation case regarding the evaluation of past and future costs for the investigation and remediation of a 230-acre site in Minnesota with contamination due to past railroad, wood treating, and drum reconditioning operations. Responsibilities included the review and organization of over 20,000 documents, past cost categorization, and alternatives analysis.
- **Evaluation of Past Environmental Response Costs and Potential Liability.** Provided support to Expert Witness for insurance litigation case regarding the recovery of past environmental response costs in connection with past ammunition manufacturing, chemical manufacturing, and waste disposal facilities at 43,500-acre site in Illinois. Evaluated Potential Responsible Party (PRP) liability and completed past cost categorization.
- **Categorization of Ordinary Business Operating Costs.** Provided support to Expert Witness in evaluation and categorization of over $1B of alleged past environmental response costs in connection with multiple coal ash ponds across 15 sites. Assisted with the review and past cost categorization of approximately 5,000 invoices and technical documents.
- **Allocation Model Support.** Provided technical strategy/consulting on behalf of a potential responsible party (PRP) participating in a Federal Superfund Remedial Investigation/Feasibility Study (RI/FS) at an industrial waterway in Brooklyn, New York. Technical responsibilities included historical file review and litigation support for the purpose of creating a model to assign PRP liability.
- **Toxic Tort Chemical Exposure Evaluation.** Provided technical support to Expert Witness by evaluating potential adverse health outcomes associated with alleged exposure to asbestos-contaminated talc. Completed a literature review of epidemiological evaluations to support opinion on general causation and association with mesothelioma and ovarian cancer.
- **Toxic Tort Air Pollutant Exposure Evaluation.** Provided litigation support for class action lawsuit regarding alleged exposure to ethylene oxide in air. Assisted in the literature review and dose/response evaluations.

Site Investigation and Remediation

- **Project Manager, Former Petroleum Distribution Facility, Complex Multi-phased Sediment Remedial Investigation to Support Completion of an Ecological Remedial Investigation, New Jersey.** The facility is located along the Cohansey River and the scope of work includes forensic sampling and source investigation.
- **Project Manager, Former Petroleum Terminal, Sediment Remedial Investigation, Staten Island, New York.** The facility is located along the Arthur Kill, and the scope of work includes the successful establishment of and delineation to background threshold values to establish a sediment remedial footprint.
- **Field Manager, Railyard, NIOSH 5040 Diesel Particulate Matter (DPM) Sampling, Manhattan, New York.** Responsibilities included quarterly sampling events and reporting.
- **Field Manager, Due Diligence Phase II Environmental Site Assessments for Real Estate Transactions at Several Sites, NYC and Long Island, New York.** Responsibilities included groundwater, soil vapor, and soil sampling, as well as assisting in report preparation.
- **Site Safety Officer, Various Remedial Investigation Sites.** Responsibilities included preparation of health and safety plans (HASPs), job safety analysis (JSA) document development and review, on-site safety meeting management, safety document preparation (Lessons Learned, Near Loss, Field Audits, etc.), and planning/execution of corrective actions.
- **Field Manager, Former Petroleum Refinery and Terminal, Annual Groundwater Sampling Monitoring Program, Brooklyn, New York.** This work was done to monitor the largest subsurface free-product plume in North America. Field work responsibilities included the sampling of over fifty wells for petroleum-contaminated groundwater using multiple sampling methods. Groundwater samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, total dissolved solids, nitrate, sulfate, and total petroleum hydrocarbons (TPH).
- **Field Manager, Former Fuel and Oil Distribution Terminal, Bi-annual Soil Vapor Monitoring Event to Monitor the Largest Subsurface Free-product Plume in North America, Brooklyn, New York.** Activities included the collection of soil vapor and ambient air samples from on-site and off-site soil vapor points.

Wetland Delineation and Ecological Support Services

- **Wetland Permitting Specialist, Redevelopment Project Adjacent to the East River, The Bronx, New York.** Development plans included the addition of a concession stand to a New York City Parks property. The project components included tidal wetland delineation, tree surveys, preparation of wetland permitting submittal documents, and project team drawing plan review for New York State Department of Environmental Conservation (NYSDEC) tidal wetland permit approval.

- **Project Manager, Supporting Completion of a Wild and Scenic Rivers Permit for Battery Energy Storage System (BESS) Redevelopment, New York.** The project components included a habitat survey, wetland delineation, and preparation of permitting submittal documents to the NYSDEC for approval.
- **Project Manager, Freshwater Wetland Delineation of a 220-acre Property, Support of Due Diligence for Potential Site Acquisition, Uxbridge, Massachusetts.** Responsibilities included preparation of a Wetland Delineation Report and strategic consulting to advise on potential redevelopment options.
- **Wetland Permitting Specialist, Aquatic Weed Harvesting Project, Southhampton, New York.** Project components included preparing permits for both the town and the village and coordinating with aquatic harvester.
- **Project Manager, Ecological Evaluation of a 50-acre Site.** Responsibilities included evaluation and reporting on terrestrial resources; engendered species; significant, sensitive, and designated resources; aquatic resources; wetlands functions and values; and submerged aquatic vegetation. Completed wetland delineation and field surveys and sampled for benthic communities in support of the Environmental Impact Statement (EIS).
- **Project Manager for Threatened and Endangered Species Evaluation of a 754-acre Park, Support of Well Decommissioning Activities, Montauk, New York.**
- **Field Manager, Wetland Delineation of a 200-acre Wooded Property, Providence County, Rhode Island.** Assisted in preparation of summary wetland report for a redevelopment project.
- **Project Manager, Land Management Activities for Wildlife Enhancement Projects at a Former Fibers Facility, Williamsburg, Virginia**. Project components include wildlife monitoring surveys for bats, birds, amphibians, reptiles, mammals, and insects. Wildlife projects implemented include creation of pollinator meadow areas, warm season grasslands, sustainable forestry management, purple martin colony, blue bird trail, bat housing, native bee housing, and vernal pool monitoring. Wildlife Habitat Council Wildlife at Work certification was earned for wildlife projects.
- **Field Manager, 720-acre Former Industrial Facility Along the Delaware River, Nontidal Wetland Delineation, Belvidere, New Jersey.** Responsible for preparing field documents and assisting in performing the tidal wetland delineation, collection of GPS points, and development of post delineation reports and figures.
- **Field Manager, Tidal Wetland Delineation of a Series of Properties, Howard Beach, New York.** Responsible for preparing field documents and assisting in performing the tidal wetland delineation, collection of GPS points, and development of post delineation reports and figures.
- **Field Manager, Tidal Wetland Delineation of a Golf Course, Hewlett, New York.** Responsible for wetland delineation, preparing field documents, collection of GPS points, and development of post delineation report and figure.

PROFESSIONAL TRAININGS

OSHA 40-hour HAZWOPER Training, 2019

OSHA 8-hour Refresher Training, Certificate Current

OSHA 30-hour Construction Safety Training, 2019

Loss Prevention System (LPS) Awareness, 8-Hour Certified

PROFESSIONAL AFFILIATIONS

Society of Environmental Toxicology and Chemistry (SETAC)

PRESENTATIONS

J. Rohrer, R. Maxwell, M. Nishibayashi, R. Henke, and S. Edmonds. Microplastics: Coming Soon to a Well Near You? NGWA Groundwater Week ’22 (Dec.).

S. Edmonds, R. Henke, R. Maxwell, and J. Rohrer. California and Beyond: A Survey of State and Federal Approaches to Microplastic Regulations. Poster for SETAC NA, 43rd Annual Meeting, Nov. 2022.

R. Henke, S. Edmonds, R. Maxwell, and J. Rohrer. Microplastics: A Survey of State Approaches to Microplastic Research and Regulation. Poster for: Battelle 12th International Conference on the Remediation of Chlorinated and Recalcitrant Compounds, May 2022.