

EDUCATION

Tufts University, Department of Civil and Environmental Engineering	Medford, Massachusetts, USA
Master of Science in Environmental Health	May 2019
Bachelor of Science in Environmental Engineering, Minor in Environmental Science and Policy	May 2018
Tufts University, Department of Urban and Environmental Policy and Planning	Medford, MA
Certificate of Community Environmental Studies	May 2019

WORK EXPERIENCE BY TEAM

U.S. Department of Transportation, John A. Volpe Center, Environmental Engineer **Cambridge, MA**

Spill Prevention and Stormwater Team (Project Manager promotion in 2021) 2018-Present

- Wrote and edited technical memorandum and reports including Tank Management Plans, Facility Response Plans (FRP), Spill Prevention Control and Countermeasure (SPCC) Plans, Stormwater Pollution Prevention Plans (SWPPP), and wastewater Slug Prevention Plans
- Developed inspection protocol to determine fuel infrastructure and hazardous material storage compliance with local and national environmental regulations, manufacturers' design and maintenance manuals, and industry standards including requirements and specifications from the U.S. Environmental Protection Agency, National Fire Protection Association (NFPA), Petroleum Equipment Institute (PEI), and Steel Tank Institute (STI)
- Conducted environmental compliance and fire safety inspections of over 300 Aboveground Storage Tanks (ASTs), Underground Storage Tanks (USTs), hazardous material containers (including AFFF), and oil-filled equipment to assess infrastructure deficiencies and recommend detailed repair, design, maintenance, and inspection actions
- Trained site/facility owners and personnel on managing their assets in compliance with environmental regulations and communicated regulatory changes to clients and stakeholders
- Managed database of environmental compliance data with 400+ data points on over 1000 pieces of tank equipment
- Communicated with contractors, clients, and facility owners, including scoping projects, writing statements of work, preparing cost estimates, developing project schedules, and implementing feedback from drafts into final deliverables

Environmental Remediation and Brownfields Redevelopment Team 2017-2024

- Reviewed Site-Specific Quality Assurance Program Plans (QAPPs and SSQAPPs) and analyzed laboratory quality assurance results to determine data quality and usability for soil and aqueous samples in Massachusetts and Connecticut
- Analyzed laboratory data quality and data useability results against state and federal regulatory acceptance criteria, including Massachusetts Contingency Plan (MCP Method 1) standards for soil and groundwater
- Conducted site visits and collected soil samples, measurements, and site observations
- Researched literature review on air and water transport of emerging contaminants (perfluorinated compounds, PFAS)
- Created GIS figures showing site layouts, sampling locations, and other field data
- Wrote and edited Site Survey reports, Remedial Action reports, Phase II Environmental Due Diligence Audits, NEPA Categorical Exclusion documents
- Communicated directly with subcontractors selected from pre-approved Small Business Database to identify vendors with the required capabilities and to obtain quotes to perform excavation, demolition, or abatement work

Project Review and Grant Program Standardization Teams 2020-2023

- Conducted an analysis and comparison of statutory, regulatory, and agency policy requirements to standardize the application and evaluation process for the Federal Rail Administration's (FRA) 7 [discretionary grant programs](#)
- Developed FRA policies and protocols for discretionary grant programs, including writing, reviewing, and commenting on draft Requests for Information (RFIs) and Notices of Funding Opportunity (NOFOs)
- Developed a standardized scoring system and grant evaluation tool for FRA grant reviewers to input their scores and notes into a PowerBI database for grants reviewed during and after the 2023 season
- Directed and coordinated a team of grant reviewers as a Team Lead for the 2022 round of U.S. DOT's [BUILD](#) Grant applications after two years of reviewing sustainability, public transit, and complete streets grants as a technical merit evaluator (2020 and 2021 rounds of BUILD)
- Wrote code to automatically sort and filter hundreds of public comments in the federal register to produce summary graphics of the frequency/redundancy, locations, and topics of comments

CERTIFICATIONS

Massachusetts Engineer in Training (EIT) License #25661

Professional Engineering (PE) License in Civil Water Resources anticipated September 2025

OSHA 10-hour General Industry and 10-hour Construction Safety Trainings

Federal Emergency Management Administration (FEMA) Incident Command System: ICS 100, ICS 200, IS-02900.a

Watershed Management Training Certificate, U.S. Environmental Protection Agency (EPA)

Steel Tank Institute Aboveground Tank Inspector License #AST-6496 (2019-2029)

New England Water Works Association Backflow Prevention Device Inspector (2021-24)

SOFTWARE EXPERIENCE

Advanced user: ArcGIS Pro, ArcMap, ArcCatalog, Microsoft (Word, Excel, and PowerPoint)

Intermediate user: ArcGIS StoryMaps, Python, R, VBA, SQL, Microsoft (Powershell, Project, PowerApps, and Publisher)

Basic user: AutoCAD, InfoWorks ICM, Adobe Illustrator, EPA SWMM and HEC-RAS modeling

Env. Eng Project Manager Achievements/responsibilities

- I added the following responsibilities as a project manager for the Tank Team to my previous technical duties upon promotion to GS level 12 in 2021: business development and scoping of future project work, new employee onboarding and training, scheduling project workflows and assigning work among team members, independent leadership of site visits, purchasing equipment and materials as a Government Purchase Cardholder, and providing training to facility owners and other stakeholders about their environmental compliance posture. I volunteered in 2023 to use my prior grant application reviewing experience to improve the policies and protocols for all future reviews, including rewriting the evaluation criteria to align it with the program statutes and regulations.

Env. Eng Achievements/responsibilities

- I was promoted from Student Trainee to Environmental Engineer in 2019. During this time, I was one of 3 engineers developing the Volpe Center's new oil and hazardous materials program, or Tank Team, including conducting a detailed analysis of relevant statutes, regulations, and industry standards to produce a comprehensive assessment of a facility's compliance status. During this time I received OSHA safety trainings and Aboveground Steel Tank Inspection certifications and began performing inspections in the field independently.

Env. Eng Student Trainee Achievements/responsibilities

- I joined the U.S. DOT Volpe Center as a Student Trainee in 2017 producing visual aids, including detailed maps and figures in ArcMap and ArcGIS Pro, and organizing, maintaining, and analyzing historic site records and environmental data to ensure accuracy and quality of reports. I reviewed notes and data produced by experienced inspectors for quality and accuracy. Under the guidance of the program manager, I worked increasingly independently on site investigation, remediation, and decommissioning reports for the remediation/brownfields team. My supervisor recommended me for an annual 2-month assignment with the grants team in 2018 where I advanced from a grant application Technical Merit Reviewer to a Review Team Lead over 3 years.

New Jersey State Park Service

- My responsibilities as a seasonal NJ State Park employee were to provide customer service to park visitors, including customers at the park store; inform the public about park programs and events; conduct informational tours of the park's historic sites and natural resources; and provide navigation aid and assistance to visitors with mobility devices or accessibility needs. I worked professionally and effectively with local advocacy/historical groups and the general public, patrolled park grounds, and enforced NJ State Park Service rules.