PROFESSIONAL PROFILE

CONTACT INFORMATION

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EDUCATION

MS, Environmental Engineering, Rensselaer Polytechnic Institute, 2014
BS, Environmental Geosciences, Boston College, 2013

PROFESSIONAL LICENSES

Licensed Professional Engineer
Alabama
Texas
TCEQ Leaking Petroleum Storage Tank (LPST) Corrective Action Project Manager (CAPM)

Justin Donlon, PE

Principal Engineer | Operations Manager

EXPERIENCE SUMMARY

Mr. Donlon is a Professional Engineer with over ten years of environmental experience, including the assessment and remediation of numerous small- and large-scale sites. He specializes in investigation and remediation, and optimization of operations and maintenance approaches.

TECHNICAL SPECIALTIES

Environmental engineering services associated with LNAPL remediation systems, groundwater and wastewater treatment systems, soil vapor extraction, and pilot study activities involving innovative technologies to enhance LNAPL recovery. Management of environmental site assessments and LNAPL investigation and remediation projects. Review and implementation of environmental compliance and management plans. Evaluation of claims associated with historical LNAPL impacts for sites with multiple potentially responsible parties. Development and review of design drawings and technical specifications, field management, and oversight of remediation system construction.

REPRESENTATIVE PROJECTS

- Project Principal and Project Manager providing in-house technical strategy/consulting to a major petroleum company for a portfolio of 12 multi-party sites in various federal and state regulatory programs including Federal Superfund, Maryland Land Restoration Program, Indiana Superfund Program, and the Ohio Environmental Response and Revitalization Program. Project management responsibilities include management of annual budget exceeding $1M, management of various technical subcontractors on behalf of client, routine communication with other PRPs and litigation team, and interaction with regulatory agencies. The role includes strategic portfolio management with a focus towards reduction and/or transfer of liability. Technical expertise includes identifying project vulnerability/liability drivers, developing near term tactics and path to closure strategies, identifying remedial cost efficiencies/minimize lifecycle costs, managing project financials, evaluating cash out opportunities, and driving client advocacy with other performing parties. The portfolio includes chemical blending/recycling sites, legacy landfills, and drum recycling sites. Each site is in various project lifecycle phases, including investigation, risk assessment, feasibility study, remedial design, remedial action, O&M, and long-term monitoring.
- Principal-In-Charge for a natural source zone depletion (NSZD) pilot study at an active petroleum refinery in southeastern Texas. Mr. Donlon's role is as the leader of an interdisciplinary team involving consultants, academics, and industry to demonstrate the ability to continuously track the depletion of remaining light non-aqueous phase liquid (LNAPL) volumes in the subsurface using estimates of in-situ LNAPL volumes based on cryogenic coring analyses and subsequent losses of LNAPL through time based on multi-parameter sensor data.
- Project Principal for the environmental due diligence and baseline assessment of a 9,000 acre ranch in Texas. The site contains almost 100 oil and gas well pads and is adjacent to an active remediation site and an active Superfund site. Specific components have included an in-depth review of records for the ranch property and surrounding properties and waterways, preparation of a Phase I Environmental Site Assessment, and design of a large-scale site investigation that included sampling of soil, groundwater, surface water, and sediment for potential contaminants including petroleum hydrocarbons, metals, VOCs, and PFAS.
- Project Engineer for the investigation and remediation of a 400-acre former alumina refinery in Texas. In addition, the project includes closure of a 30-acre Industrial Waste Management Unit (WMU). Work was conducted pursuant to the Texas Risk Reduction Program (TRRP)

requirements, including preparation of an Affected Property Assessment Report (APAR) and various Response Action Plans for various areas of concern. This included investigation of over 30 areas of concern, and completion of soil borings and monitoring wells throughout the facility.

- Project Manager of a multi-million-gallon release of petroleum hydrocarbon product from a former refinery and petroleum storage terminal in Brooklyn, New York. Responsibilities include design and implementation of LNAPL recovery optimization work plans, pilot studies, summary reports, and site modeling reports. Prepared alternatives analysis reports, site management plans, and quarterly and annual progress reports. Daily management responsibilities include scheduling/management of field crew consisting of more than ten engineers and geologists, and the management of an annual budget of more than $20 million.
- Project Manager and design engineer for a light non-aqueous phase liquid (LNAPL) recovery system at a former alumina refinery in southeastern Texas. Specific components included development of remedial strategy, recovery system design, management of system installation, start-up, operations and maintenance (O&M) and optimization, and report preparation. Developed LNAPL transmissivity testing work scope, analyzed data, and developed recommendations for remedial design and regulatory closure based on LNAPL transmissivity test results. Obtained regulatory closure of LNAPL recovery activities within three years.
- Project Manager for a comprehensive evaluation and gap assessment of the conceptual site model and remediation approach for several LNAPL plumes at a large active refinery in southeastern Texas. The scope included the analysis of several years of investigation, recovery, and monitoring data while refining the conceptual site model to evaluate the current and future approach to petroleum recovery activities for several plumes. Developed work scope to address identified data gaps and incorporated new data to prepare an Updated NAPL Management Plan to prioritize LNAPL recovery activities and obtained regulatory closure of six of seven onsite LNAPL plumes.
- Project Manager and Senior Engineer providing remedial strategy support and optimization for a 30M+ cubic yard phosphogypsum stack in Texas. Specific components included development of remedial alternatives, analysis of regulatory feasibility and design and construction timeframes, and preparation of long-term cost estimates to identify the remedial approach with the lowest lifecycle cost and maximum commercial value for the property. The project team also prepared a phosphogypsum sampling plan to facilitate the analysis of material to incorporate into the remedial alternatives analysis.
- Project Manager and design engineer for the design of an 800-gallon per minute temporary stormwater treatment system at a former alumina refinery in southeastern Texas. Responsibilities included conducting bench tests and analyzing data to drive treatment system design. Conducted field oversight to ensure that the treatment system was installed and operated safely according to design specifications. Provided engineering design and system operations and maintenance support to optimize system performance and runtime.
- Project Manager and Senior Engineer providing remedial strategy support and optimization for petroleum-impacted soil and groundwater at a 500,000+ acre ranch in Texas. Specific components included compiling and organizing existing assessment and remediation data, developing remedial approaches, evaluating feasibility, and developing a model to predict the scope and per-site cost of oil and gas well pad soil and groundwater remediation at a major oil and gas lease. As a result of this analysis, the project team identified the remedial approach with the lowest lifecycle cost.
- Principal Engineer for the permitting of several petroleum terminals across Texas including identification of the appropriate TCEQ stormwater discharge permit, preparation of the permit application, and the design and installation of a stormwater treatment system capable of meeting discharge permit requirements.
- Principal Engineer for the permitting of a pipe manufacturing facility in southeast Texas including identification of the appropriate TCEQ wastewater discharge permit and preparation of the permit application.
- Provided engineering support and services, including operations and maintenance (O&M) of a soil vapor extraction (SVE) system and two dual-phase free-product recovery and groundwater extraction/treatment systems, consisting of 23 recovery wells at a former petroleum storage terminal in New York City. Major tasks included the preparation of quarterly and annual progress reports and whole effluent toxicity (WET) testing reports, preparation of monthly discharge monitoring reports, field sampling and monitoring of free-product and water quantities, coordination and planning of system upgrades, and routine equipment maintenance. Daily monitoring of parameters across all systems and recovery wells included the generation of a daily free-product recovery report.
- Provided claims evaluation support to review and analyze thousands of reports, invoices, and legal documents related to multi-million-dollar environmental claims at several sites. Identified data gaps and formulated approaches to acquire key

information and developed written and visual representations of site history, including property ownership, operations, pre-existing contamination, spills, investigations, remediation, analytical data, and regulatory drivers. Provided technical opinions of identified liabilities of relevant parties based on evaluation of supporting documentation. Prepared summaries of cost-related documentation and recommended cost allocations by conducting quantitative and qualitative evaluations of cost demands through review and analysis of supporting invoices.

- Designed and managed a vacuum-enhanced recovery pilot study at an operational dual-pump liquid-extraction recovery well system at a former refinery and petroleum storage terminal in Brooklyn, New York. Field activities included the installation of a control manifold within the dual-phase extraction well, air sampling from the recovery well and the SVE system, fluid-level gauging, and monitoring of SVE system influent trends using a Hydrocarbon Flame Ionization Detector (HFID). Additional responsibilities included data analysis, development of a pilot study summary report and the evaluation of pilot study system expansion across the Site.
- Project Engineer for a comprehensive review and implementation of environmental compliance plans and permits for a former alumina refinery in southeastern Texas. Includes review of Spill Prevention, Control, and Countermeasure (SPCC) Plans, Stormwater Pollution and Prevention Plans (SWPPP), Title V Federal Operating Permits (FOPs), Texas Pollutant Discharge Elimination System (TPDES) Permits, and waste disposal procedures, and performance of site inspections to ensure compliance.
- Project Manager for the completion of SWPPPs and/or BMP Plans for several ground-sorting package/transportation facilities throughout Texas to meet compliance with NPDES Industrial Stormwater permits.
- Principal Engineer for several SPCC Plans in Texas to meet federal, state and local regulator compliance requirements.
- Principal Engineer for the installation of a vapor pressure adsorption unit at a steel mill in Oklahoma. Collected particulate matter concentration measurements in ambient air to support construction activities.
- Project Manager for the investigation and remediation of a volatile organic compound (VOC) groundwater plume for a former petroleum retail facility in Greenwich, New York. Prepared a Limited Phase I Environmental Site Assessment Report summarizing a comprehensive records review to assess site history and evaluate the designation of potentially responsible parties. Managed multiple phases of subsurface investigation, reporting, and remedial design. Obtained regulatory approval to collect the majority of excavation endpoint samples prior to excavation activities to minimize standby time.
- Project Engineer for a technical evaluation and development of a groundwater monitoring plan associated with a petroleum pipeline release in Houston, Texas. The scope included analysis of hydrogeological data, development of a conceptual site model, and preparation of a Groundwater Monitoring Plan to advance the Site to closure in accordance with TCEQ requirements.
- Project Manager providing environmental consulting support and management of a surface water sampling and filtration program for a major petroleum company at a USEPA Superfund site in New York City. Performed technical review of treatability studies and managed the coordination of subcontractors, collection of surface water samples, and filtration and processing of samples using a peristaltic pump and sterivex filters.
- Detailed design, evaluation, and selection of remedial equipment, components, and instrumentation for the expansion of a recovery well system, including equipment arrangements, piping layouts, site plan drawings, and vault details for a large-scale dual-phase free-product recovery project at a former petroleum storage terminal in Brooklyn, New York. Reviewed and approved shop drawings for proposed equipment and structures. Management of recovery system expansion project included coordination of subcontractors to ensure quality implementation of design and schedule requirements during construction phase.
- Project Manager for a sub-slab depressurization system (SSDS) at a former watchcase factory in New York. Responsibilities include the management of SSDS O&M and quarterly reporting, SSDS troubleshooting, and annual indoor air sampling and reporting.
- Field Manager of a site-wide SVE system sampling program at a former refinery and petroleum storage terminal in Brooklyn, New York. Responsibilities included planning, management, and organization of field personnel. Additional responsibilities included evaluation of field data and identification of SVE system/well adjustments for optimization of VOC and methane mitigation and maximization of equivalent free-product recovery.
- Field Manager of recovery well system optimization efforts for a former petroleum refinery and terminal in Brooklyn, New York. Responsibilities included monitoring of recovery well specific capacity trends and subsequent video inspection of recovery wells. Additional responsibilities included the identification of

recovery wells that may benefit from hydro-jetting activities and/or redevelopment.

- Field Manager of remedial investigation activities for a former lube plant and active petroleum storage terminal in Bayonne, New Jersey. Field work included free-product and groundwater sampling, fluid-level gauging and screening of monitoring wells.

PROFESSIONAL TRAININGS

OSHA 40-Hour HAZWOPER Training

Loss Prevention System (LPS) Supervisor Training, 8-Hour Certified

First Aid and CPR Certified

Transportation Worker Identification Credential (TWIC) Certification

PROFESSIONAL AFFILIATIONS

Texas Association of Environmental Professionals

Texas Society of Professional Engineers