PROFESSIONAL PROFILE

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EDUCATION
BS, Chemical Engineering, Columbia University, 1994

PROFESSIONAL LICENSES
Professional Engineer, New Jersey, No. 24GE04677100

Joseph M. Luty, PE

Technical Director

EXPERIENCE SUMMARY

Mr. Luty has twenty-eight years' experience building and leading remediation engineering teams and supporting large client program remediation projects in the US, Canada, Europe, Australia, and Africa. His professional experience includes Technical Director at Roux (2024-Present); Environmental Engineering Discipline Lead (2016-2024), Program Region Lead (2015-2016), and Senior Engineer (2013-2015) at AECOM; and Engineering Manager (2001-2013), Project Engineer (1997-2001), and Junior Engineer (1995-1997) at Groundwater & Environmental Services, Inc.

TECHNICAL SPECIALTIES

Mr. Luty is a licensed New Jersey Professional Engineer with extensive environmental consulting and remediation management experience. He and his engineering teams have overseen the design, construction, and operations and maintenance (O&M) of in situ and ex situ remediation systems at current and former industrial facilities, petroleum refineries/terminals and retail service stations. Mr. Luty is experienced with environmental and construction permitting, and his projects have excellent regulatory compliance records.

Mr. Luty works closely with the New Jersey Department of Environmental Protection (NJDEP) to prepare and present various environmental management continuing education classes and co-authored NJDEP's In Situ Remediation Design Considerations and Performance Monitoring Technical Guidance Document. Mr. Luty is also well-versed with behavior-based safety programs and coaching/mentoring staff.

REPRESENTATIVE PROJECTS

- **Confidential Oil & Gas Client, Petroleum Terminal Remediation, Paulsboro, New Jersey (2016-2024).** Technical lead and task manager for $8M cost-to-objective remediation of former 100-acre petroleum and specialty chemicals terminal, including neighboring residential and industrial properties. Target contaminants include chlorobenzene, PCE, fuel oil/diesel and gasoline hydrocarbons. Remediation includes operation of 300-gpm groundwater recovery/treatment system, 1500-scfm soil vapor extraction system, 180-pound/day ozone sparge system, 750-scfm air sparge system, periodic in situ chemical oxidation (ISCO) and bio nutrient injections, and other source area remediation systems. ISCO chemistry includes stabilized hydrogen peroxide and alkaline-activated sodium persulfate. Mr. Luty's responsibilities include directing office and field staff performing all aspects of OM&M and regulatory reporting as well as serving as quality assurance lead verifier for deliverables including remedial action reports (RARs), remedial action permit (RAP) applications, response action outcomes (RAOs) for soil and groundwater, permit reporting submittals and periodic renewal applications (NJPDES DSW, NJDEP air emissions, NJDEP water allocation and DRBC). Mr. Luty performed periodic remedial process optimization (RPO) reviews resulting in lifecycle cost reductions of over $500,000. Other key responsibilities include ensuring all company and client safety procedures are followed, interfacing with multiple public and private stakeholders engaged in facility redevelopment and completing quarterly financial projections.
- **Confidential Client, Chromium Remediation, Hudson County, New Jersey (2020-2024).** Technical lead for groundwater chromium remediation. Responsible for design, construction, start up and O&M of large-scale in situ anaerobic bioremediation injection system on multiple properties to address plume reduction and migration control. Remediation includes a network of seven injection system trailers feeding molasses, emulsified vegetable oil and

calcium polysulfide into 150 injection wells. Mr. Luty's responsibilities include developing the budget and leading the following tasks: detailed engineering design, NJDEP discharge to groundwater permit-by- rule application, construction bid packages, system construction and installation, system start-up and ongoing OM&M. As technical lead, Mr. Luty is responsible for all client and regulatory technical communication and deliverables, including semi-annual project update meetings with the client and various stakeholders.

- **Confidential Specialty Chemicals Client, Ground Water Recovery System Optimization and O&M Oversight, Parlin, New Jersey (2017-2024).** Lead engineer for remediation system O&M at active chemical production plant. Mr. Luty's responsibilities include providing technical and regulatory permitting support to the project team and field staff responsible for maintaining operations of a 500-gpm groundwater recovery and treatment system using fluidized bed bioreactors for treatment of TBA and a 50-gpm groundwater recovery and treatment system using air stripping to treat carbon tetrachloride. In addition, Mr. Luty is part of the team responsible for the design of a new carbon tetrachloride recovery and treatment system.
- **Confidential Oil & Gas Client, Remedial Process Optimization, Carson, California (2020-2022).** Technical lead for RPO study of multiple remediation systems operating at 450-acre active petroleum storage terminal and former refinery. Systems studied included multiple onsite and property boundary groundwater/LNAPL recovery systems consisting of 75+ recovery wells and total process flow of 100+ gpm, with oil/water separators and bioreactor; 6000-scfm soil vapor extraction system and 80-gpm offsite hydraulic control system. Mr. Luty's responsibilities include meeting with the office and field teams to assess operational challenges and client/regulatory performance objectives, reviewing system performance data and leading the development of a comprehensive cost-benefit analysis with recommended system modifications. Mr. Luty also participated in weekly client technical team calls and provided ongoing guidance and support to the project team during the implementation of system modifications.
- **Confidential Oil & Gas Client, Remedial Investigation/Feasibility Studies, Lodgepole, Alberta, Canada (2019-2022).** Senior remediation engineer supporting remedial investigation, CSM update and remedial options analyses of sour gas well blowout site. Mr. Luty worked with the project team to refine ongoing remedial investigation efforts to support updates to the CSM. Mr. Luty also provided support with feasibility studies and led the development of a remedial options analysis matrix. Mr. Luty also helped develop the scope of work for bench-scale treatability testing for in situ bioremediation and in situ chemical oxidation.
- **Confidential Oil & Gas Client, Remedial System O&M, New York, New York (2018-2020).** Senior engineer supporting remediation system O&M for a portfolio of retail service station sites. Mr. Luty provided oversight of mid- and junior-level engineers supporting remedial system O&M activities, permit compliance and reporting and annual optimization reviews. Remedial systems included SVE, air sparge and high vacuum total phase extraction. Treatment technologies included oil/water separation, air stripping, liquid and vapor phase carbon adsorption and catalytic oxidation.
- **Confidential Client, Gypsum Stack Closure, Pasadena, Texas (2014-2016).** Technical lead for stack leachate collection system evaluation and supplemental moat underdrain/interceptor collection system design. Mr. Luty became engaged in the project when a potential flaw in the leachate collection system was identified during the final stages of construction. Mr. Luty led a multidisciplinary team through review of the conceptual site model, engineering design and construction as-builts to identify the root cause of the failure and guide selection of the remedy. Mr. Luty served as the liaison to the client technical team and worked closely with company legal and senior leadership to support cost-recovery negotiations. Mr. Luty continued to provide technical support to the project through implementation of the remedy.

PROFESSIONAL TRAININGS

OSHA 40-Hour HAZWOPER

OSHA 10-Hour Construction

Loss Prevention System (LPS) Supervisor

PRESENTATIONS

Luty, J. 2018 - 2023. LSRP Case Study Training – the Next Generation! Rutgers University Office of Continuing Professional Education. New Brunswick, New Jersey.

Luty, J. 2017. In Situ Remediation: Design Considerations and Performance Monitoring Technical Guidance. NJDEP. Trenton, New Jersey.