Amber M. Lutey, R.G.
Project Scientist

Education and Credentials

B.S., Earth and Environmental Sciences, Lehigh University, Bethlehem, Pennsylvania, 2013

Registered Geologist, Oregon (License No. G2697)

Continuing Education and Training

Hazardous Waste Operations and Emergency Response 40-Hour Certification (2013, with annual refreshers)

Hazardous Waste Operations Management and Supervisor 8-Hour Certification (2017)

OSHA 10-Hour Construction Safety and Health Certification (2014)

First Aid and CPR certified (2019)

BNSF Contractor Certification (2020)

Professional Affiliations

Member of Geological Society of America

Member of Sigma Xi

Professional Profile

Ms. Amber Lutey is a geologist with 7 years of consulting experience providing technical analyses for environmental remediation, site characterization, and regulatory compliance. She is a project manager supporting remedial investigations, conceptual site model development, data interpretation, and field effort design. Ms. Lutey has extensive experience leading environmental sampling efforts across the United States, including soil, surface water, stormwater, and groundwater investigations using a wide variety of sampling methodologies. She routinely assists in environmental site assessments, remedial investigations, and feasibility studies and prepares technical reports in accordance with a wide variety of state and federal regulations. In addition, she has prepared environmental site plan drawings for submission using AutoCAD and ArcGIS software. Ms. Lutey is currently matriculated in a graduate program in geology at Portland State University.

Relevant Experience

Environmental Investigations

Soil and Groundwater Investigation, Centralia, Washington— Project manager responsible for managing soil and groundwater investigations for areas of concern at a former wood veneer mill. The chemicals of concern are primarily pentachlorophenol (PCP), total petroleum hydrocarbons (TPH), and lead. Planned, managed, and conducted a field investigation to delineate PCP and TPH in soil in a former dip tank area using sonic drilling methods. Prepared a remedial investigation and feasibility report in accordance with Model Toxics Control Act guidance and standards.

Former Manufactured Gas Plant Site, Missoula, Montana— Evaluated and identified data gaps to supplement existing site characterization work, including delineating the extent of manufactured gas plant-related contamination, refining a conceptual site model, and supporting evaluation of groundwater transport and natural attenuation. Supported project scoping, strategy, and technical memorandum and work plan development. Focused performing party on a cost-effective approach and protective containment remedy.

319 SW Washington Street
Suite 1150
Portland, OR 97204

503.943.3612
alutey@integral-corp.com

San Jacinto River Waste Pits Superfund Site Phase I Pre-design Investigation, Channelview, Texas—Lead for a soil investigation to assess dioxin contamination from upland and areas of a former paper mill waste disposal site. Work included collecting and logging soils, processing soil core samples, coordinating with field staff, and writing a completion report.

Former Wood Treating CERCLA Facility, Columbus, Mississippi—Field lead for multi-incremental sampling and subsurface composite sampling in residential yards surrounding a former wood treatment facility. Sampling was conducted as part of a feasibility study into the extent of offsite dioxins/furans and PCP in shallow soils to support remedial actions. Assisted with a technical memorandum on results.

Feasibility Investigation, Portland, Oregon—Served as the field lead for a feasibility investigation for a site in the Portland Harbor, which included planning, executing, and overseeing soil, groundwater, and surface water investigations in compliance with Oregon Department of Environmental Quality and EPA regulations as part of the Portland Harbor source control and cleanup efforts.

Red Hook Integrated Flood Protection Feasibility Study, New York, New York—Assisted in reviewing man-made and naturally existing conditions as well as assessing potential environmental impacts and permitting requirements for the Red Hook waterfront in Brooklyn, New York, a low-lying area that was hard hit by Superstorm Sandy. The study, funded by the Hazard Mitigation Grant Program, was for developing preliminary designs to increase resilience and provide protection from future coastal storms.

Soil Investigation, Deadhorse, Alaska—Led a soil investigation, which included onsite decision-making based on field observations and subsequent soil sampling.

Penn Station, New York, New York—Assisted in project organization and management and led the collection of samples of sediment and concrete for analysis to evaluate the potential presence of PCBs along railroad tracks. The results of the analysis were used to evaluate potential health concerns for workers performing track improvements. Tasks included data collection, data analysis, and review. Provided oversight of track and platform cleaning activities and trained and directed entry level staff in the collection of samples for laboratory analysis.

PennEast Pipeline, Select Counties, Pennsylvania and New Jersey—Gathered geotechnical information regarding bedrock and surficial geology for areas where the PennEast Pipeline—a 155-mile, 36-in.-diameter, high pressure, natural gas pipeline system—was expected to pass through. Prepared reports on horizontal directional drilling using the gathered information. In addition, interpreted findings, including karst conditions, rock type, and historical data, to determine if additional geophysical and geotechnical work was needed.

Phase I Environmental Site Assessments, Multiple Properties, Ocean County, New Jersey—Conducted Phase I environmental site assessments for various properties throughout Ocean County, New Jersey, totaling more than 1,700 acres. Responsible for performing agency file records

review, interpreting historical maps and aerial photographs, collecting site history information from multiple sources, conducting interviews, and completing onsite investigations.

Environmental Assessment, Former Marlboro Psychiatric Hospital, Marlboro, New Jersey—Prepared an environmental assessment to meet the requirements of the New Jersey Department of Environmental Protection (NJDEP) EO-15 for the proposed construction of group homes on a portion of the former Marlboro Psychiatric Hospital site. Tasks included conducting an environmental review of documents and conditions, and preparing a report for NJDEP review.

New York City Economic Development Corporation/New York City Department of Environmental Protection, Brooklyn and Queens, New York—Conducted field investigations for more than 500 right-of-way bioswales and assisted in the development of boring location plans. Also, conducted a geotechnical investigation consisting of soil borings and permeability testing to assist in the construction of right-of-way bioswales, stormwater green streets, and other stormwater management practices throughout combined sewer areas, all in accordance with New York City Department of Environmental Protection procedures.

Former General Motors Powertrain Facilities, RACER Trust, Massena, New York—RACER Trust, the largest environmental trust in U.S. history, was created in the wake of the General Motors (GM) bankruptcy to manage the cleanup and redevelopment of 89 former GM sites, including the Massena GM Powertrain facility, a 218-acre Superfund site, which is in active remediation. Served as team leader responsible for tracking, overseeing, and assisting in the sampling of 70+ wells using ultra-low-flow sampling technology in accordance with EPA regulations for Superfund sites.

Groundwater Monitoring, Hertel Landfill Superfund Site, Hertel Steering Committee, Plattekill, New York—Managed biannual groundwater sampling events and assisted in the long-term groundwater compliance monitoring of a closed Superfund site. Collected groundwater samples using low-flow purging methods and dedicated bladder pumps.

Remediation

Groundwater Remediation Support at a Manufacturing Facility, Midwest U.S.—Oversaw the drilling and installation of extraction wells to capture perfluorochemicals downgradient of a former disposal site. Led the fieldwork for step-drawdown and constant-rate (72-hour) pump tests on the extraction wells to measure hydraulic conductivity, transmissivity, and storage of the aquifer. Conducted a reconnaissance groundwater sampling investigation to assess the vertical distribution of perfluorochemical concentrations in shallow groundwater in support of the design of an extraction wellfield.

Per- and Polyfluoroalkyl Substances Remedial Investigation, Northeastern U.S.—Project manager responsible for managing immediate environmental concern conditions involving potable water and mitigation; preparing responses to agency requests; developing work plans, and agency response documents, and communications for delivery to project technical and legal team; and managing regulatory requirements and time frames for the project. Providing litigation support, investigate potential third-party source contributions, and review notifications/communications.

Carmine Franco/Block 144 Development Properties, New Jersey Transit, Weehawken, New Jersey—Served as field team leader for the oversight of soil borings and well installations, soil sampling, groundwater sampling using low-flow sampling methods, and management of subcontractors. A preliminary assessment was completed to identify potential onsite sources of soil and groundwater impacts. A remedial investigation was completed to delineate PCBs across the site, and remedial actions were proposed in a remedial action work plan.

County Yard, New Jersey Transit, New Brunswick, New Jersey—Served as team leader for oversight of soil borings in an effort to further delineate PCB-impacted soil above 1 part per million to reduce the volume needed for offsite disposal and avoid constructing a cap to meet EPA Self-Implementing Cleanup Plan (SICP) requirements. A SICP was prepared and submitted to the EPA for review and comment.

Passaic Dayton Avenue Campus, New Jersey Schools Development Authority, Passaic, New Jersey—Served as team leader oversight of soil borings and test pits for remedial investigation purposes, management of subcontractors, and preparation of technical reports for submission to NJDEP. The site had a complex history of prior land use and consisted of multiple areas of concern involving different types of environmental impacts.

Orange Garage, New Jersey Transit, Orange, New Jersey—Conducted oversight of soil borings and monitoring well installations, and collected soil and groundwater samples for analysis. Analyzed and interpreted data to help develop remedial actions at the site.

Various Facilities, New Jersey Turnpike Authority/Garden State Parkway—Responsibilities included sampling groundwater from monitoring wells via volume averaged purging, low-flow sampling methods, and passive diffusion bags in accordance with the NJDEP August 2005 field sampling procedures manual. Additional responsibilities included the injection of a surfactant mixture into select wells followed by the extraction of this mixture along with its targeted free product.

Various Sites, County of Essex, New Jersey—Planned and conducted soil and groundwater investigations at four Essex County-owned properties with active NJDEP cases between 10 and 20 years old. Prepared remedial investigation reports. Established classification exception areas for groundwater contamination and deed notices for soil contamination. Prepared remedial action reports and response action outcomes.

Passaic Valley Sewerage Commission/Former Witco Property, Newark, New Jersey—Served as team leader for oversight of soil borings and well installations, as well as groundwater sampling using the volume averaged purging technique for remedial investigation purposes. Hydrogeological evaluations were also conducted, which included slug testing on monitoring wells using In-Situ Troll 500 and transducers, and manual water-level meter readings.

Research and Development

Western Wood Preservers Institute—Investigated the extent to which chlorinated compounds may leach from preserved-wood utility poles into surrounding soils. Specifically, synthesized data from published studies to determine at what distance concentrations of PCP and 2,3,7,8-tetrachlorodibenzo-*p*-dioxin toxicity equivalent in soils dropped to below relevant risk-based screening levels or background concentrations.

Presentations / Posters

Lutey, A. 2013. Determining optimal growing conditions for the oil-producing micro-algae, *Nannochloropsis*. Poster presented at Lehigh University Earth and Environmental Sciences Undergraduate Symposium, Bethlehem, PA. April 26.