



David Umbach, PG
Director of Site Mitigation
Services
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Education

Candidate for Master of Science, Hydro-geology, Rutgers University
Bachelor of Science, Geology, Marshall University
Geological Engineering, Colorado School of Mines

Registrations

Professional Geologist, State of Virginia
Subsurface Evaluator, NJDEP
UST Closure, NJDEP
Industrial Wastewater Treatment System Operator, NJDEP
OSHA 40 Hour HAZWOPER
OSHA Confined Space Entry

Affiliations

National Groundwater Association Member
Member Association of Soil Scientists and Engineers

Mr. Umbach is familiar with all aspects of environmental site investigation, remediation, environmentally sensitive construction oversight, and requirements of varied regulatory and lending agency standards. He has extensive experience developing and implementing soil, groundwater, and geotechnical investigation and remediation programs. Mr. Umbach has also performed numerous Phase II Subsurface Investigations, Regulatory Compliance Assessments, Property Condition Assessments, Underground Storage Tank removals and Installations.

Mr. Umbach has 28 years of experience in the environmental services field; 19 of which have been in a senior or management position. During this time, he has cultivated a wealth of knowledge and invaluable practical experience.

Mr. Umbach has performed innumerable subsurface investigations, and prepared and executed countless remedial action plans. His experience spans Phase I, II and III Environmental Site Assessments; RCRA, CERCLA, SPCC Plan preparation; and hazardous material management, including landfill closures, UST/AST closures, hazardous waste disposal, municipal well field design, and water treatment system design and construction.

Specific pump-and-treat experience includes:

- Re-design and re-configuration of a pump and treat system installed to reduce the contamination resulting from a leaking 550 gallon gasoline UST owned by a city police department. Within 8 months of installation of the new system, contamination was reduced to levels requiring no action, and a previously closed stairway and first floor were reopened.
- Design and installation of a pump and treat system and a re-circulating groundwater pump to remove contamination of a substantial quantity of diesel fuel leaking from a system fueling a fishing fleet. The new system consisted of groundwater depression pumps, product recovery pumps, a control panel, oil - water separator, and re-injection pump system. The system was installed below the surface allowing then-occurring construction to continue without delay. The contamination was successfully removed within 7 months.
- Installation of a groundwater pump and treat system in a shore resort, where heating oil had migrated from an UST located at the rear of the building, along and beneath the foundation and basement floor. Due to the fine grained, well-compacted soils on site, pump rates were restricted to less than 10 gallons per minute. In order to complete the remediation in time for the next season, microbes were added to the outlet end of the system to expedite the process. The clean up was completed within 6 months.
- An investigation of a lumber facility, prior to its sale, identified several UST's formerly used for fueling delivery trucks. The UST's were removed and found to be leaking. Diesel fuel and gasoline were found to have migrated below a warehouse building and onto the neighboring property. A re-circulating groundwater pump and treat system



was installed within the warehouse building. Recovery wells were located along the property line, and within the building. The re-injection manifold was located to force the contamination towards the recovery wells. The system successfully remediated the site in approximately 9 months.

Mr. Umbach has further experience in:

- Performed Phase I ESAs, Phase II Subsurface Investigations, Property Condition Assessments, and Regulatory Compliance Assessments on numerous multi-acre, multi-tenant industrial, multi-family residential, commercial office, retail and multi-regional retail mall complexes.
- Performed subsurface evaluation, including but not limited to, evaluation of current and historical dry cleaning operations, current and historical industrial operations, and gasoline service operations at commercial and industrial properties.
- GPR surveys; Geotechnical investigation
- Brown fields redevelopment compliance and oversight
- UST and AST system design, permitting, removal, installation, testing and compliance monitoring; Municipal potable well field design; Groundwater transport modeling
- Disposal system design and permitting; Industrial wastewater treatment system design, operation, and maintenance
- Potable water treatment system testing, repair and maintenance
- SPCC plan preparation
- NPDES permitting and monitoring, storm water treatment and management
- Wastewater treatment: lagoon, marina, pond and stream dredging, permitting, design and management; stream bank stabilization design
- HAZMAT disposal and management
- Groundwater and soil remediation
- Expert testimony for environmental and site stability claims
- Insurance claim management and oversight

Mr. Umbach also has considerable experience in client management. As a manager, he has provided excellent daily client support and management of environmental, engineering and associated projects, always attentive in addressing client concerns, comments and revisions.