

# EDWARD HUSS, P.E.

## PROGRAM MANAGER

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### EDUCATION

B.S. Environmental Engineering 1997  
University of Florida

### REGISTRATION AND CERTIFICATION

Registered Professional Engineer, Delaware No. 12608

Certified by NJDEP as a Temporary Licensed Site Remediation Professional (LSRP) LSRP #511394

Certified by NJDEP to Conduct Underground Storage Tank Closure and Subsurface Investigations No. 0021608

Completed 40 Hour OSHA HAZWOPER Training Course and Annual Updates

Completed 10-Hour OSHA Construction Safety Training

Competent Person Excavation and Trenching Health & Safety Training Certification

South Jersey Chemical Manufacturers Health & Safety Training

### RESPONSIBILITY AND EXPERIENCE, WHITMAN

Mr. Huss joined Whitman in January 2006. His responsibilities include technical design/strategy of Whitman's ISRA, Brownfield and other related environmental engineering and remediation projects. He directs the implementation of a wide variety of advanced and conventional remedial technologies to meet client's regulatory and redevelopment driven goals. Mr. Huss has a proven record of successful remedial system design, execution, enhancement and operation.

Some of his recent professional assignments include:

- **Soil Remediation for Site Redevelopment, Northern New Jersey:** Directed the implementation of a large scale hydrocarbon impacted soil excavation project to allow the redevelopment of the site for residential use. Project involved the design and implementation of a dewatering system and impacted groundwater treatment system to facilitate removal of impacted soils beneath the groundwater table. Interlocking steel sheeting was designed and installed to facilitate the controlled removal of the impacted soils, and ensure remediation of soils to unrestricted use criteria.

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- **Superfund Site Under Record of Decision, Former Computer Manufacturing Facility, Eastern Pennsylvania:** Directed engineering, design and field execution of advanced In-Situ Chemical Oxidation (ISCO) technology using permanganate for remediation of chlorinated volatile organic compounds (CVOCs) in bedrock drinking water aquifer. Directed operation of multi-million dollar ground water treatment system. Pioneer cutting edge pilot study on potential treatment of permanganate with granular activated carbon (GAC) and peroxide for use at municipal supply wellheads. Developed site-specific design of unique injection points for shallow bedrock injection, executed fluorescent dye tracer study in angled injection wells to determine fracture interconnectedness in deep bedrock, and design-build infiltration gallery to treat shallow overburden and source area with ISCO.
- **Industrial Site Recovery Act (ISRA) Project, Former Chemical Manufacturing Facility, Northern New Jersey:** Directed operation and conceptual to detailed design upgrades to poorly performing SVE/Air Sparge system along Passaic River. Designed and executed cutting edge passive-diffusion nylon-screen sediment pore water sampler program along river frontage of site. Performed detailed remedial assessment borings using close-packed geoprobe to fully characterize submerged lithology and vertical hydrocarbon distribution. Prepared cost-benefit analysis remedy and contaminant mass calculations, resulting in proposed transition to advanced technologies to expedite site closure.

## SUMMARY OF OTHER PROFESSIONAL EXPERIENCE

**Environmental Resources Management, Inc.**  
**Ewing, New Jersey**

**2003-2005**

Senior Environmental Engineering Director/ Project Manager

- Responsibilities included executing and managing comprehensive Phase II Site Investigation for proposed \$0.5 billion LNG Terminal, including extensive health and safety design and oversight due to subsurface pipelines.
- Implemented large scale soil excavation project on Northern New Jersey ISRA Site. Project included excavation dewatering and contaminated groundwater treatment system. Remedial design included installation of 260 foot perimeter, braced steel sheeting to allow completion of the excavation along building edge.
- Executed and designed various field pilot tests for soil vapor extraction (SVE) and air sparging. Pilot test data was used to calculate design parameters for final full scale systems.
- Priced and evaluated various remedial options and scenarios for long term insurance liability costing. Developed and modified software cost models to determine site-specific cost probabilities.

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**Handex Environmental, Inc.**  
**Morganville, New Jersey**

**2000-2003**

Senior Engineer/Project Manager

- Superfund Site, Active Retail Gasoline Station – US Army, Central New Jersey: Executed the conceptual to detailed design, installation and operation and maintenance of major system for US Army, including conventional pump and treat, air stripping with GAC polishing and iron removal, horizontal and vertical SVE with Air Sparging and Catalytic Oxidation off-gas treatment.
- Personally bid, won and executed large scale chromium capping project for chemical manufacturer. Project included design-build of tri-planer geocomposite liner installation.
- Designed and implemented upgrades to two poorly performing groundwater pump-and-treat systems. Design upgrades included enhancing drawdown and hydraulic capture from pumping wells by modifying pump control systems. Results of system enhancement yielded reduced remedial requirements negotiated with NJDEP.

**Environmental Management Associates, Inc.**  
**Farmingdale, New Jersey**

**1997-2000**

Project Engineer

- Design and implementation of SVE pilot test through conceptual model, pilot test execution and full scale system installation. SVE systems reduced cost of remediation through alternative approaches by greater than 50%.
- Design and installation of bioremediation system using engineered microbes to remediate residual fuel oil contamination. System resulted in case closure within 1 year of initial inoculation.
- Design and installation of surfactant-soil flushing system to remove free product from beneath building structure. Case closure was achieved following removal of free-product beneath building and reclassification of aquifer.

## **COURSES COMPLETED**

Master's Degree Level Course Completed: "Groundwater Restoration", University of Florida, Spring 1997

New Jersey Industrial Site Recovery Act (ISRA) Seminar, Rutgers University - 1999

Regulatory Training in Underground Storage Tanks, Rutgers University – Multiple Refresher Courses

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### **PUBLICATIONS AND PRESENTATIONS**

Huss, E. and Brown, R., "Anatomy of an ISCO Bedrock Site," 4<sup>th</sup> International Conference on Oxidation-Reduction Technologies (ORTs-4), Chicago, Illinois, 2005.

Huss, E. and Brown, R., "Goresorbers for Site Remediation Screening," 4<sup>th</sup> International Conference on Oxidation-Reduction Technologies (ORTs-4), Chicago, Illinois, 2005.

Huss, E. and Brown, R., "Permanganate Removal (ISCO) in a Wellhead Treatment Area," 3<sup>rd</sup> International Conference on Oxidation-Reduction Technologies (ORTs-3), San Diego, California, 2004.