

Kimberly D. P. Rentz, PE Senior Environmental Engineer

Technical Specialties:

With over twelve years of professional experience, Ms. Rentz is well versed in remediation technologies, particularly phytoremediation. Ms. Rentz graduated from Kansas State University's College of Engineering with a Bachelor of Science in Biological and Agricultural Engineering and a Secondary Major in Natural Resources and Environmental Sciences. Ms. Rentz received a Master of Science in Civil and Environmental Engineering from the University of Iowa's College of Engineering. Ms. Rentz's research focused on phytoremediation of polycyclic aromatic hydrocarbons. She is an Environmental Engineer with experience in phytoremediation, Phase I and II investigations, various state voluntary cleanup programs, federal and state brownfield redevelopment grants and geotechnical investigations.

Credentials:

B.S. Biological and Agricultural Engineering-Environmental Option; Secondary Major, Natural Resources and Environmental Sciences, Kansas State University

M.S. Civil and Environmental Engineering, University of Iowa

Professional Affiliations:

Illinois Licensed Professional Engineer, #062.064429

Washington Licensed Professional Engineer, 43779

Professional Memberships

Illinois Society of Professional Engineers

Specialized Training

OSHA 40-Hour HAZWOPER & annual refreshers

OSHA 8- Hour Supervisory Course, Bethesda, MD

Transportation Worker Identification Credential (TWIC)

Key Projects:

- CHA Rockwell Gardens Phase 2A Redevelopment, Chicago, Illinois - Coordinated remedial activities including tank removals in accordance with the Illinois Environmental Protection Agency's (Illinois EPA's) voluntary Site Remediation Program (SRP). Reviews contractors bid calculations and pay requests. Analyzes data and prepares reports for the SRP and Leaking Underground Storage Tank (LUST) programs.

- BP Products North America Inc., Wood River, Illinois - Coordinates semi-annual groundwater and soil monitoring activities for a phytoremediation /landfarming remedial area. Analyzes data and prepares annual current conditions report to the Illinois EPA.
- PIG Casting Facility, Gary, Indiana - Conducted a geotechnical and environmental investigation consisting of soil borings and the installation of groundwater monitoring wells. Collected soil samples for environmental and geotechnical analysis including Shelby tubes. Visually classified soil in the field using the Unified Soil Classification System (USCS) per ASTM D-2487. Oversaw the use of hollow stem auger (HSA) and rotary drilling methods. Assisted in the preparation of a geotechnical report providing engineering evaluations and recommendations regarding the suitability for construction at the site.
- La Porte Landfill, La Porte, Indiana - Conducted an investigation of the landfill property for the Indiana Department of Environmental Management (IDEM). Conducted test pit investigation of soil cover thickness, soil sampling, installation of groundwater monitoring wells and groundwater sampling, and soil vapor historical use/operation of different refinery units concentrating on the environmental issues within the main refinery. Prepared a Sampling and Analysis Plan and monitoring well inspection report which were submitted to IDEM.
- RUSH University Medical Center Expansion Project, Chicago, Illinois - Coordinated and conducted Phase II investigations and remediation under the Illinois EPA's voluntary SRP. Coordinated and conducted soil and groundwater sampling and monitoring well installation and abandonment. Analyzed data and prepared reports for the SRP program.
- McCormick Place West Expansion, Chicago, Illinois - Conducted Phase I and II investigations for the Illinois EPA's voluntary SRP and LUST programs. Coordinated and conducted soil and groundwater sampling and monitoring well installation and abandonment. Oversaw remediation activities including tank removals. Analyzed data and prepared reports for the SRP and LUST programs. Prepared budget and billing forms for reimbursement from the LUST program.

Kimberly D. P. Rentz, PE Senior Environmental Engineer

- Henkel Corporation, Buffalo, New York - Prepares work plans for monitoring of a high vacuum extraction system. Analyzes soil, groundwater, and discharge data to evaluate system effectiveness and plan for additional remedial action (chemical oxidation, biotreatment, monitored natural attenuation). Assists in preparation of reports for the New York State Voluntary Cleanup Program/Brownfields Cleanup Program.
- IDOT Peoria to Macomb Corridor Study, Illinois - Maintained database of public meeting attendees and public comments concerning the Corridor Study. Compiled mailing lists for newsletters.
- The Premcor Refining Group, Inc., Blue Island, Illinois - Completed a water well survey for the Illinois EPA. Compiled historic public and private well information from the Illinois State Geological Survey (ISGS) and Illinois State Water Survey (ISWS) databases. Coordinated with local communities and state agencies to obtain public water supply information for individual addresses surrounding potential wells. Authored a letter report of findings.
- Brownfield Redevelopment Grants, various South Chicago Suburbs, Illinois - Authored brownfield redevelopment grant applications for several south Chicago suburbs.
- USEPA Grants, various communities, Illinois and Indiana - Authored cleanup and assessment grants for communities in Indiana and Illinois.

Published Papers

Precht, K.D., Rentz, J.A., and Schnoor, J.L. Nutrient and Oxygen Requirements for Phytoremediation of Petroleum Contaminated Soils. *EPA International Applied Phytotechnologies Conference*. March 3-5, 2003. Chicago, Illinois. (Poster Presentation).

Precht, K.D. Nutrient Requirements for Phytoremediation of a Petroleum Contaminated Site. University of Iowa. May 2003. Iowa City, Iowa. (Masters Thesis).

Precht, K.D. Rentz, J.A., and Schnoor, J.L. Greenhouse Treatability Studies that Guide Phytoremediation Nutrient Management. *EPA International Phytotechnologies Conference*. April 19-22, 2005. Atlanta, Georgia.