

RACHAEL E. HUEMPFNER, PE

Education

B.S., Environmental Engineering, Michigan Technological University, 2016

Professional Licenses

Professional Engineer – Wisconsin and Minnesota

Specialty Certifications

HAZWOPER 40-hour Training

University of Minnesota Design of Construction SWPPP

APNGA Portable Nuclear Gauge Safety & US DOT Hazmat Certification



Professional Experience

Ms. Huempfer is an experienced environmental engineer. She has diverse experience in wastewater and solid waste management permitting, design, and construction projects. Her areas of expertise include bidding/construction documents, construction quality assurance, and construction documentation. Rachael works with public solid waste facility owners/operators, public wastewater facility owners/operators, and electric utilities. Additional experience includes pond closure CQA and organics management systems.

Landfill Engineering

Various, Design, Construction, and Operational Oversight. Completed technical specifications and construction drawings for contractor bid. Acted as client representative during the bid process, responding to contractor questions and evaluating bid proposals. Worked with contractors to complete projects in a timely manner within client budget. Completed project change orders and design adjustments during construction. Completed certification reports to regulators on behalf of the client. Signed as-built documentation drawings and reports as engineer of record.

Various, Project Permitting and Data Science/Analysis. Worked with the Minnesota Pollution Control Agency on landfill and leachate compliance. Worked with Wisconsin Department of Natural Resources on solid waste and infectious waste storage permits. Worked with regulators on modifications to landfill plan of operations and construction documentation. Completed landfill fill plans for newly constructed phases and phases moving toward final closure. Assisted clients in communication with the regulatory agency, advocated for client needs.

Various, Design, Construction and Operational Oversight. Completed technical specifications for contractor bid for wastewater treatment system and landfill operational construction. Participated in remedial water treatment system start-up including 24-hour operation cycles and various treatment technologies. Participated in post-construction documentation of wastewater treatment systems including construction documentation and operation and maintenance manuals. Acted as a client representative in a field engineer position for various public projects including solid waste infrastructure modifications and landfill post-closure improvement projects. Provided construction quality assurance as lead field engineer for landfill cell construction including density testing, geomembrane liner quality assurance, and project documentation. Acted as the primary quality control engineer and subcontractor oversight for waste pond liner construction.

Various, Illinois, Michigan, and Wisconsin, Project Permitting and Data Science/Analysis. Worked with regulatory agencies to obtain permits for public construction projects. Completed individual permit applications pertaining to stormwater, erosion control, and dredging projects. Completed Army Corps of Engineers joint permit applications for restoration activities and sediment sampling. Completed post-closure cost analysis for landfill clients in Illinois and Wisconsin. Worked with regulators on modifications to landfill plan of operations.

Various, Field Technician for Monitoring and Sampling Analysis. Assisted in Wisconsin Pollution Discharge Elimination System (WPDES) sampling and reports for clients. Coordinated and participated in landfill sampling events. Performed gas quality and surface monitoring at active and capped landfills. Performed sediment core profile assessments for confirmation sampling and collected core sediment for further lab analysis. Assisted in collection of sediment core samples utilizing various DPT samplers. Participated in marine performance monitoring and calibration of marine equipment for water quality analysis.

Publications and Presentations

“Former Zephyr Oil Refinery Fire Suppression Ditch Area Sediment Remediation Remedy Effectiveness,” Battelle 2019 Sediments Conference, New Orleans, LA, presented by Pat Faessler of Severson Environmental Services, Inc.