

Barton L. Schultz, P.E.
Project Manager

Experience:

Bart Schultz has 26 years of experience in the Civil and Environmental Engineering field. Mr. Schultz's experience includes the preparation of engineering drawings and specifications, preparation of technical reports, planning documents, and permitting documents, and performing construction observation. His experience includes a variety of projects including comprehensive planning and siting studies for single or multiple public entities, environmental permitting, environmental site assessments, feasibility studies, development of SPCC Plans, corridor studies associated with routing new transmission lines, design of solid waste facilities and the associated storm water control structures, design of material handling facilities, quality control review of facility design projects, construction observation, third party review of contested projects, and technical input to legislative subcommittees during the rule making process.

Relevant Design project experience:

- **IDI CarMax Environmental Due Diligence.** Project Manager for environmental services provided to IDI and associated with the development of a proposed CarMax store in Burnsville Minnesota. The environmental services included a due diligence of the project site for Wetlands, Threatened and Endangered Species and Cultural Resources.
- **CROSS Building Project, Rogers Minnesota.** Project Manager for the CROSS Project which included engineering design and permitting services for site development. The site development services included a site grading plan, a storm water control plan, an erosion and sediment control plan, a site utility plan, and the parking lot design. Permitting services were also provided for the NPDES General Storm Water Permit for Construction and a Storm Water Pollution Prevention Plan. In addition to the design services, project coordination was provided between the client and the City, County, and State officials, and local watershed district personnel involved with the project.
- **Maplewood Walgreens, Maplewood Minnesota.** Project Manager for the Maplewood Walgreens Project which included engineering design and permitting services for site development. The site development services included a site grading plan, a storm water control plan, an erosion and sediment control plan, a site utility plan, and the parking lot design. In addition to the design services, project coordination was provided between the client and the City, County, and State officials, and local watershed district personnel involved with the project.
- **Barbarossa Site Development, Maple Grove Minnesota.** Project Manager for an industrial development located in Maple Grove. Provided engineering design, environmental and permitting services for site development. Prepared a Phase I Environmental Site Assessment in conjunction with the site purchase. The site development services included a site grading plan, a storm water control plan, an erosion and sediment control plan, a site utility plan, and the parking lot design. In addition to the design services, project coordination was provided between the client and the City, County, and State officials, and local watershed district personnel involved with the project.
- **Maple Grove Walgreens, Maple Grove Minnesota.** Project Manager for the development of a Walgreens located in Maple Grove. Provided engineering design and permitting services

for site development. The site development services included a site grading plan, a storm water control plan, an erosion and sediment control plan, a site utility plan, and the parking lot design. In addition to the design services, project coordination was provided between the client and the adjacent developer, the City, County, and State officials, and local watershed district personnel involved with the project.

- **MEER Towers, Maple Grove Minnesota.** Project Engineer for the development of an office complex located in Maple Grove. Provided engineering design and permitting services for site development. The site development services included a site grading plan, a storm water control plan, an erosion and sediment control plan, a site utility plan, and the parking lot design. In addition to the design services, project coordination was provided between the client and the City, County, and State officials, and local watershed district personnel involved with the project.
- **Premier Banks, Albertville Minnesota.** Project Manager for the expansion and redesign of a parking lot for Premier Banks. Access to the bank and storm water control issues prompted the need for the expansion and redesign. The site design services included a site grading plan, a storm water control plan, an erosion and sediment control plan, and the parking lot design. In addition to the design services, project coordination was provided between the client and the City, State and local watershed district personnel involved with the project.

Relevant Waste Management project experience includes:

- **Fergus Falls, MN Landfill Facility.** Project Manager for the landfill facility. The Landfill facility includes an ash monofill, a construction and demolition Landfill, a yard waste composting site, and a transfer station. Prepared design drawings and specifications for the respective fill areas. The design included storm water control features, ground water monitoring, and site access. Provided construction administration services.
- **Rapid City Regional Recovery and Landfill Facility.** Project Manager for the City of Rapid City Regional Recovery and Landfill Facility project, which includes a material recovery facility, a solid waste composting facility, and a regional landfill. A grading plan was prepared for the landfill to show the progression of filling and to identify controls needed to route surface water to the existing control structures. The \$16 million resource recovery facility was designed to accept commingled recyclables in blue bags and municipal solid waste. The recyclables will be separated by type and baled for shipment to market. The municipal solid waste will be processed and the organic fraction sent to a hangar for composting.
- **Otter Tail County.** Project Engineer during the construction phase of a recyclable processing facility for Otter Tail County. The Facility was designed to process source separated recyclables and prepare them for delivery to market.
- **Fergus Falls, MN EAW.** Project Manager for the landfill expansion at the ash monofill and demolition debris landfill. Prepared an Environmental Assessment Worksheet for the proposed expansion to the ash monofill and demolition debris landfills on City-owned property located directly south of the existing disposal operations.
- **U.S. Highway 2, North Dakota Department of Transportation.** Assisted in the evaluations associated with the alternative analyses for the U.S. Highway 2 Environmental Impact Statement.
- **State of South Dakota, Solid Waste Management Plan.** Prepared a comprehensive solid waste management plan for the State of South Dakota as a result of the Governor's Centennial Legislation. Provided technical information and long-term cost information to a legislative

subcommittee appointed to provide input during the planning process. Also, conducted numerous public meetings during the planning process.

- **City of Huntington, Indiana.** Project Manager for the City of Huntington landfill located in Huntington Indiana. The Project included the design of a vertical and lateral expansion of the landfill, and an evaluation of the existing storm water control basin to ensure that it was sized to handle the expansion area for the facility. A grading plan was developed to match the existing contours to the proposed filling plan for the vertical expansion. A clay equivalency analysis was performed on the in-situ clay beneath the existing landfill to support the proposed design for the vertical expansion. The lateral expansion area was designed with a recompacted clay/geomembrane composite liner and a leachate collection system. Additional ground water monitoring wells were installed as part of the detection-monitoring program for the Facility. In addition, the expansion area impacted 1.5 acres of wetlands, which required review from the Corps and the State. Under the 404 permit review, the Corps determined that the project would not require an individual permit, but would require a wetland mitigation plan. The mitigation plan was developed in a forested area approximately three acres in size.
- **City of Muscatine, Iowa.** Project Manager for the City of Muscatine, Iowa and the Muscatine County Area Solid Waste Agency. Developed an implementation plan for a regional waste management facility to address the existing State mandates. The Facility included a transfer station, a recycling area, and a household hazardous waste drop-off area. A site plan was developed for routing a mix of commercial and residential traffic through the Facility. A storm water control plan was developed to route storm water away from the Muscatine slough and the Facility. The plan included a storm water control pond and a culvert for the access road, which crossed the Muscatine Slough.
- **Landfill of North Iowa Solid Waste Agency.** Project Manager for the Landfill of North Iowa Solid Waste Agency landfill located in Clear Lake, Iowa. Prepared a comprehensive solid waste management plan for the landfill of North Iowa Solid Waste Agency. The Agency serves twenty communities located in six counties. Prepared a final grading plan for a vertical expansion at the existing landfill. Designed a clay liner and a leachate collection system for a 25-acre expansion to the existing landfill. Sized the leachate collection and storage system for the long-term needs of the Facility throughout the operating and closure periods.
- **Confidential Client.** Provided technical assistance to the Respondent in an Arbitration case pertaining to a failed composting Facility located in southern Florida. The technical assistance included an evaluation of the general facility conditions, operations at the facility, and maintenance of the equipment. In addition, provided review comments regarding technical information provided by the Claimant's expert witnesses.
- **Ramsey/Washington County.** Performed an economic analysis for implementing a dual-pricing system at the Ramsey/Washington County RDF processing facility. The intent of the analysis was to project the economic impact, to the Counties and to the haulers, of implementing a pricing system based on either the volume of waste or the tonnage of waste received.
- **Rapid City, South Dakota.** Performed an evaluation of the City of Rapid City, South Dakota regional landfill for the potential to generate landfill gas in quantities that would require the installation of a control system in accordance with the Federal Environmental Protection Agency's New Source Performance Standards as they relate to landfill gas emissions.

Relevant Utility Industry project experience includes:

- **Great River Energy, Wilson Lake 115 kV Transmission Line Certificate of Need and Route Permit.** Project Manager for the GRE Wilson Lake Project which includes a 115 kV

transmission line connecting the Wilson Lake Substation with the Mud Lake Substation in Crow Wing County. The project included the preparation of the environmental documents which support the Certificate of Need and the Route Permit for approximately 12 miles of a 115 kV transmission line.

- **Alliant Energy Emery to Lime Creek 161 kV Transmission Line.** Project Manager for the Alliant Energy Emery to Lime Creek Transmission Line Project which includes a 161 kV transmission line connecting the Emery Substation with the Lime Creek Substation in Cerro Gordo County, Iowa. The project included the preparation of environmental documents which support the required permits for the preferred route encompassing approximately 20 miles of 161 kV transmission line.
- **Great River Energy, Environmental Documentation for PSC Application.** Project Manager for a Great River Energy transmission line project that included the preparation of an application to the North Dakota Public Service Commission for a Certificate of Corridor Compatibility and Route Permit for a 37-mile transmission corridor. Field studies were conducted to identify cover types, state rare species habitat and natural communities, locations and types of jurisdictional wetlands, land uses and any existing structures. A biological report was prepared following the field studies and submitted as part of the PSC application.
- **Great River Energy, Environmental Documentation for the Certificate of Need and the Environmental Quality Board Route Permit: Plymouth-Maple Grove 115 kV Transmission Line Project.** Project Manager for a Great River Energy/Wright-Hennepin Cooperative Electric Association transmission line project. The Plymouth-Maple Grove Project included the preparation of an environmental report as part of the Certificate of Need application to the Minnesota Public Utilities Commission. Field studies were conducted to identify cover types, state rare species habitat and natural communities, locations and types of jurisdictional wetlands, land uses and any existing structures.
- **Great River Energy, Phase I Environmental Assessment, property transfer in Scanlon, Minnesota.** Project Manager for a Phase I Environmental Site Assessment prepared in accordance with the scope and limitation of ASTM Practice E1527-00.
- **Great River Energy, Phase I Environmental Assessment, property transfer in Maple Grove, Minnesota.** Project Manager for a Phase I Environmental Site Assessment was prepared in accordance with the scope and limitation of ASTM Practice E1527-00.
- **Great River Energy/Xcel Energy, Phase I Environmental Assessment, property transfer for three substations located in Minnesota.** Project Manager for Phase I Environmental Site Assessments prepared for the Balta Substation, Crow River Substation, and Traverse Switching Substation, in accordance with the scope and limitation of ASTM Practice E1527-00.
- **Otter Tail Power, Spill Prevention, Control and Countermeasures Plans.** Project Manager for the SPCC Plan development for Otter Tail Power's electrical substations in accordance with the Clean Water Act and 40 CFR 112, as amended, February 17, 2006. Approximately 125 electrical substation sites were evaluated.
- **Connexus Energy Spill Prevention Control and Countermeasures Plan.** Project Manager for the SPCC Plan development for Connexus Energy's Operations Center located in Ramsey Minnesota.

- **Central Power Electric Cooperative, Inc. Spill Prevention Control and Countermeasures Plan.** Project Manager for the SPCC development for CPEC's Headquarters Facility and eighteen substation sites located North Dakota.
- **Minnkota Power Cooperative Substation Reviews.** Worked with Minnkota Power Cooperative to evaluate and prepare Spill Prevention Control and Countermeasures (SPCC) Plans for approximately 200 electrical substations. Conducted field evaluations whereby the sites and adjacent areas were investigated and any navigable waters or wetlands were identified. Analyzed background and field data and modeled various spills using MOSES (Mineral Oil Spill Evaluation System)
- **Great River Energy, Spill Prevention, Control and Countermeasures Plans.** Project Manager for the SPCC Plan development for GRE's electrical substations jointly owned with their Cooperatives. The Clean Water Act and 40 CFR 112 require that certain non-transportation-related oil storage and consuming facilities maintain SPCC Plans. Electrical substations, with equipment containing oil in quantities greater than 1,320 gallons in the aggregate or in an individual container, are required to have a current SPCC Plan. Approximately ninety (90) substation facilities were evaluated in 2001.
- **Connexus Energy, Spill Prevention, Control and Countermeasure Plan.** Project Manager for the SPCC Plan development for Connexus Energy's electrical substations (2001). The Clean Water Act and 40 CFR 112 require that certain non-transportation-related oil storage and consuming facilities maintain SPCC Plans.
- **Great River Energy, Spill Prevention, Control and Countermeasures Plans.** Project Manager for the SPCC Plan development for GRE's electrical substations in accordance with the Clean Water Act and 40 CFR 112, as amended on July 17, 2002. The analyses were performed on approximately fifty (50) substation sites (2002-2003).
- **Connexus Energy, Spill Prevention, Control and Countermeasures Plans.** Project Manager for the SPCC Plan development for Connexus Energy's electrical substations in accordance with the Clean Water Act and 40 CFR 112, as amended, February 17, 2006. The analyses were performed on approximately forty (40) substation sites.
- **Lake Country Power, Spill Prevention, Control and Countermeasures Plans.** Project Manager for the re-evaluation of select substation sites (twenty-eight sites) based on the July 17, 2002 amendments to 40 CFR, Part 112.
- **Crow Wing Power, Spill Prevention, Control and Countermeasures Plans.** Project Manager for the re-evaluation of select substation sites (sixteen sites) based on the July 17, 2002 amendments to 40 CFR, Part 112.
- **Cass County Electric Cooperative, Spill Prevention, Control and Countermeasures Evaluation.** Project Manager for the SPCC Plan development for CCEC's facility locations and their remote distribution transformer installations (for example; West Acres Mall).
- **Eagle Creek Substation.** Project Manager for the SPCC Plan development for an electrical substation owned jointly by Minnesota Valley Electric Cooperative and Great River Energy in accordance with the Clean Water Act and 40 CFR 112, as amended on July 17, 2002.

Relevant project experience for Environmental Compliance includes

- **Border States Paving, Inc. Spill Prevention Control and Countermeasures Plan.** Project Manager for the SPCC Plan development for Border States' facilities located in Fargo and Jamestown, North Dakota, and for their mobile facilities. Border States Paving produces asphalt for paving roads and parking lots.
- **Farstad Oil, Inc. Spill Prevention Control and Countermeasures Plan.** Project Engineer for the SPCC Plan development for the Farstad Oil facility located in Minot North Dakota. Farstad Oil is a regional wholesale petroleum products distributor serving all of North Dakota and Montana, and also including northern Minnesota and northern Wyoming.

Relevant project experience for planning studies includes:

- **Gun Club Lake Watershed Management Organization, Comprehensive Water Resource Management Plan.** Assisted in updating the Gun Club Lake Watershed Management Organization Comprehensive Water Resource Management Plan in accordance with the Metropolitan Surface Water Management Act requirements.
- **St. Louis Park, Comprehensive Water Resource Management Plan.** Assisted in updating the City of St. Louis Park Comprehensive Water Resource Management Plan in accordance with the Metropolitan Surface Water Management Act requirements.
- **Sioux Falls, South Dakota C&D Disposal Landfill.** Project Manager for the City of Sioux Falls, South Dakota Bruns C&D disposal facility. Prepared a final grading plan and specified a final cap configuration to minimize the erosion potential. In addition, prepared a Storm Water Pollution Prevention Plan for the facility as part of the final closure plan.
- **Southeast Iowa Regional Planning Commission, Comprehensive Solid Waste Management Plan.** Served as Project Manager during the preparation of a solid waste management plan for the Southeast Iowa Regional Planning Commission. The purpose of the plan was to develop alternatives to the existing solid waste management system in response to state requirements. The study included four counties in Iowa (Henry, Lee, Louisa and Van Buren), the Iowa Army Ammunition Plant in Des Moines County, and Hancock County, Illinois.
- **Northeastern North Dakota.** Prepared a feasibility/siting study for a regional landfill for an area encompassing eleven counties in northeast North Dakota. Worked with a solid waste subcommittee, which represented all the participating counties and evaluated the potential of developing a regional landfill facility to service the entire area.
- **Grays Harbor County.** Prepared a comprehensive countywide landfill site selection study for Grays Harbor County, Washington. Storm water control was a significant siting criterion due to the extremes in the topography and annual rainfall amounts. In addition, performed an investigation and evaluation of the existing conditions at the Grays Harbor County solid waste landfill to determine the feasibility of designing a vertical or horizontal expansion at the site. One of the key issues involved surface water routing and control at the facility because of the annual rainfall events and the extreme elevation differences across the site.

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Education:

B.S., Civil and Environmental Engineering, University of Wisconsin, 1980

Registration:

Professional Engineer in Minnesota, Iowa, Indiana, South Dakota and Wisconsin

Professional Experience:

Houston Engineering, Inc., 1999 – Present

Orr-Schelen-Mayeron & Associates, Inc., 1995 – 1999

HDR Engineering, Inc., 1986 – 1995

Wisconsin Department of Natural Resources, Bureau of Solid Waste Management, 1980 – 1986

Professional Organizations:

Consulting Engineers Council of Minnesota

SWANA