

KRISTIAN KJOS, PE

PROFESSIONAL EXPERIENCE

Kristian Kjos joined the firm in 2021. He was a 2005 Montana State Graduate in Civil Engineering and currently has over 16 years of experience and progressive responsibility in environmental and civil engineering consulting. His qualifications include extensive hands-on project coordination, civil engineering and construction management, design, cost estimation, and client relations. He spent 3 years on a multi-faceted federal project in California involving large mass grading operations and water management. He has worked projects that have included design of CCR impoundment closure and retrofit, solid waste landfill design, RCRA impoundment, erosion control, and stormwater management design. His experience with land surveying has provided crucial experience and decision making at early stages of the design.

AREAS OF EXPERTISE

- Civil engineering/surveying
- Construction management
- CCR design projects
- Structural engineering
- Remediation projects
- Landfill design
- Civil 3D design
- Storm water design

PROJECT EXPERIENCE

Confidential Power Sector/Energy Provider Client: Coal Combustible Residuals (CCR) Closure Impoundment

Technical Advisor/Senior Civil Engineer responsible for the CCRs' close-in-place construction level design. The project included closing a Class I Dam impoundment in place and receiving permits from the state. Over 300 acres of existing land were utilized for onsite borrow and staging during closure operations. Permitting, calculations, state meetings, closure plans, and extensive stormwater design were an integral part of the closure design. From initial closure discussions through construction bid procurement, all aspects of a technical construction level project were conducted under the scope of work performed.

Confidential Electrical Co-Op and National Renewable Group Client: 8MW Solar Design/Permitting

Senior Civil Engineer for the civil site design for an Engineering, Procurement, Construction project consisting of five different sites. The civil site design (IFC Drawings) considered the final panel layout, site ingress/egress, stormwater management, and other pertinent site components. Design included stormwater calculations and permitting with local agencies and the state. Special Use Permits were prepared for local public hearings and utilized for zoning purposes. All aspects of design were utilized from initial site selection to final construction as-builts.

Confidential Industrial Facility Pulp and Paper Client: Vertical Landfill Expansion

Lead Civil Engineer responsible for preparing construction level drawings and associated stormwater pollution prevention plan (SWPPP) to be utilized



ENGINEERING SERVICE LINE MANAGER SENIOR ENGINEER

EXPERIENCE

16 years of experience in Civil Engineering

EDUCATION

B.S., Civil Engineering,
Montana State University

PROFESSIONAL REGISTRATIONS & CERTIFICATIONS

- Professional Engineer –
South Carolina #032153
North Carolina #041259
Georgia #040013
National Record #062101
- Professional Land
Surveyor – Passed
National PLS
- OSHA 40-Hour
HAZWOPER Certification
- OSHA 8-Hour
HAZWOPER Refresher
- CPR/First Aid



ADDITIONAL INFORMATION

Kristian Kjos

in permitting with NCDEQ and solid waste for the vertical expansion of an existing landfill. Kristian coordinated with other engineers to perform detailed engineering, grading, and phasing plans; stormwater calculations; erosion and sediment control calculations; geotechnical exploration; groundwater modeling; and evaluation, which included characterizing subsurface soils to help design the vertical expansion. Other responsibilities included client relations, project management, and creating estimates.

Confidential Energy Provider Client: Solar on Landfill Suitability Analysis

Lead Civil Engineer for the suitability assessment and engineering analysis for a nominal 3.1MW DC solar facility at a RCRA closed landfill site located in the Southeast. The analysis included review of available information, including age of landfill, type of cap, type and dates of waste material deposited in the landfill, closure design, as-built drawings, and monitoring data (landfill gas, groundwater, leachate, etc.). Kristian evaluated the developable areas usable for PV arrays based on the slopes, orientation, and accessibility. He calculated the bearing capacity of the landfill foundation materials that would support the solar racking system and equipment pads.

Confidential Industrial Chemical Plant Client: Permitting Support of New Building Expansion

Senior Civil Engineer responsible for permitting support for a large building expansion at an existing chemical plant. Kristian worked alongside a structural engineering firm to prepare construction level drawings and calculations for the land disturbance permit. Local meetings were held with the county and state to expedite the approval process. Some of the project's challenges were working within the confined restraints of an existing facility.

Confidential Industrial Plant Client: Chemical Plant Civil/Structural Design

Civil/Structural Engineer for this heavy chemical plant engineering firm. His experience included client relations, project management, scopes, estimates, inspections, design of steel buildings, layout site work for new development, stormwater prevention plans, piping, structural, IBC codes, and ASCE codes. He worked in RISA, AutoCAD, Solid Works, Autoturn, Bluebeam, and HydroCad. Kristian prepared construction level drawings, associated SWPPPs, grading and phasing plans, stormwater calculations, erosion and sediment control calculations; developed client relations; managed projects; and creating estimates.

Confidential State/Federal Client: Federal Mitigation Project, Phases 5 and 7

Civil Engineer responsible for supervising crews and reviewing engineering plans/construction staking. He trained employees to efficiently operate GPS. The project consisted of control, topos, as-builts, construction staking, roads, berms, pipe layout, quarry blasting, mass grading, building pad construction, and dirt work. Kristian worked directly with project managers, superintendents, station officials, and all engineering fields.

Confidential Commercial Clients: Commercial Projects

Civil Engineer responsible for performing pre-site investigations and creating schematic layouts for commercial and residential projects. He worked on several sites with extensive layouts and that were permitted for shopping centers and new residential developments. Kristian designed sewer, water, and storm layouts. He was involved in detention pond and outlet structure design, road design, grading, and all permitting with the appropriate authorities. The projects included progress reports, client meetings, and design of complete engineering plans and testing.

OUTSIDE THE OFFICE

Outside of MSE, Kristian can be found golfing, fly fishing, and rafting with his wife and daughter. He enjoys all activities outside and travels every summer to visit family in Montana. Kristian and his family have volunteered for the last 8 years, cooking meals at Homeless Shelters and Senior Centers.