

ERIN KUNKEL, E.I.T.

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EDUCATION

Colorado School of Mines Golden, CO
Bachelor of Science, Environmental Engineering

May 11, 2013
GPA: 2.87

PROFESSIONAL ENGINEERING EXPERIENCE

IMERYS World Minerals, Lompoc, CA

Summer 2011

Celite Mine Environmental Intern

- Gained experience adhering to regulatory requirements leading to site-wide environmental health, compliance and safety. Worked toward understanding air compliance and interpretation of the Clean Air Act (CAA).
- Researched Title V emissions requirements and gathered historic emissions inventory data. Per CAA regulations in California, researched the ability to drop below Title V permit status.
- Recorded and interpreted previous year's air emissions per BACT requirements and NESHAP standards.
- Participated in site wide inspections including hazardous waste storage, satellite accumulation areas, and chemical processing facility per RCRA hazardous waste regulations.
- Participated in storm water discharge inspections and erosion management
- Participated in internal EHS site inspections for RCRA compliance and prior to MSHA quality inspections.

CAMPUS EXPERIENCE

Colorado School of Mines Registrar's Office, Golden, CO

2008-2011

Student Employee

- Organized and filed student records and submitted completed paperwork in online system for undergraduates.
- Assisted students and faculty with completing proper forms and other registration issues throughout the year.

PROJECT ENGINEERING EXPERIENCE

Senior Design: Clear Creek County's Mining Feasibility Study

2012-2013

- Lead a consulting team of multi-disciplinary engineering students tasked with conducting gold mining feasibility study based on Clear Creek County's 1041 permit.
- Provided environmental assessment regarding land access as well as viability of surveying done in close proximity to housing developments (completed in approximate 1041 permit format).

Mining and the Environment

Spring 2013

- Graduate level course that emphasized the environmental impacts from mine site development, extraction, and closure.
- Determined environmental impacts of mining processes for metal and coal mining above and below ground.
- Some topics included the extraction of gold using cyanide and mercury processes, post mine site closure, metal toxicity, remedial actions, air pollution, and effects of acid rock drainage.

Environmental Summer Field Session

Summer 2011

- Designed around field research and group projects concerning remediation and wastewater treatment.
- Remediation Consultation- successfully led a consulting investigation of an orphaned mine-site in Idaho Springs, CO.
- Conducted soil sampling for abandoned rock piles and surrounding deposits.
- Provided contamination characterization for tailings pile leading to recommended remediation process.
- Conducted water pilot testing on samples and performed recommended water treatment analysis.

ENGINEERING SKILLS

- **EPA Regulatory Compliance:** Interpretation and application of CAA, CERCLA, CWA, SDWA, TSCA and RCRA.
- **Additional Environmental Skills:** knowledge of solid and hazardous waste management, contaminant transport, environmental audits, pollution prevention, sampling techniques and remedial technologies.
- **Computer Skills:** Microsoft Word, Excel, PowerPoint, Project, SolidWorks, MathCAD, LabView, C++, Computer-aided engineering, multidisciplinary experimentation and instrumentation.
- **Laboratory Skills:** Safety measures, chemical preparation, titrations, and documentation.
- **Other Skills:** Excellent oral communication, team player, technical writing, organized, and problem-solver.
- **Passed Colorado FE Examination:** Fall 2012