

# Matthew Pollard, EIT

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## SUMMARY

- Oil & Gas, SPCC, cathodic protection, and air quality experience in field and office-based permitting and compliance
- Demonstrated technical writing skills and document quality control experience in air quality, corrosion, and combustion
- Environmental and Chemical Engineering foundation with process engineering and water treatment applicability
- Research and development experience including flame chemistry, bio filtration, water resources, and watershed pollution

## EXPERIENCE

### **Air Quality Engineer**, GHD Services, Inc., July 2018-July 2019

Federal, Texas, and New Mexico State air quality permitting and compliance for Oil & Gas facilities

- Completed and maintained site construction, operation, and modification air emissions permits for Oil & Gas clients
- Calculated and analyzed emissions by species and source for emissions inventory records and permit applications
- Modeled facility emission sources through AERMOD and ProMax to predict and mitigate nearly all concentration plumes
- Advised process engineering teams on site parameters and equipment selection/sizing to meet 100% regulatory compliance
- Performed SPCC and groundwater well monitoring inspections, sampling, and risk analysis reporting to regulatory agencies

### **Field Engineer**, GroundWork Renewables, January 2018-April 2018

Designed and maintained solar irradiance weather stations for solar resource assessments

- Performed and led construction of weather station commissioning for solar field prospecting surveys
- Troubleshoot instrument failures and reduced data collection errors by 20% while completing maintenance and upgrades
- Commissioned and calibrated instruments and data logging system while training local technician and client field staff

### **Staff Professional I**, Kleinfelder, Gas Transmission & Distribution Team, Colorado Region, January 2016-March 2017

Performed Cathodic Protection (CP), Environmental Regulatory (ER) audits, and engineering design work

- Developed technical reports, calculation and design packages, construction figures, and field data management systems
- Executed field surveys, oversaw construction and commissioning, and confirmed compliance of water, oil, and gas utilities
- Reviewed existing records of pipeline protection and risk mitigation documents including SPCC plans and FRPs
- Assisted engineering design teams with schematic and location mapping detail and delivery of Oil & Gas products
- Maintained equipment certifications and calibrations per vendor specifications to reduce errors by up to 10%

## SKILLS

- Proficient in Microsoft Excel, Word, AutoCAD, MATLAB, ArcGIS, AERMOD, Adobe Acrobat, and ANSYS Fluent
- Experience with operating lab based chemical composition, water quality, combustion, and cathodic protection equipment

## CERTIFICATIONS AND PROFESSIONAL ORGANIZATIONS

- Engineer In Training (CA, 2012) - No.13-560-49
- 40-HR HAZWOPER Certified
- Engineers Without Borders - Denver Chapter
- Chi Epsilon - Civil Engineering Honors Society
- American Society of Civil Engineers
- National Association of Corrosion Engineers
- Tau Beta Pi - National Engineering Honors Society
- LACER Lab Safety Coordinator

## PRESENTATIONS AND PUBLICATIONS

- "Effects of biomass moisture content on volatile flame during cofiring with coal," The Institute of Combustion (2015).
- Topic Leadoff Presentation at 9<sup>th</sup> U.S. National Combustion Meeting (May 2015, Cincinnati, OH).
- Presentation at 4<sup>th</sup> IEA Clean Coal Centre Workshop on Cofiring Biomass with Coal (November 2014, State College, PA).
- "Identification and Remediation of Water-Quality Hotspots in Havana, Cuba: Accounting for Limited Data and High Uncertainty," The West Indian Journal of Engineering, Vol. 35, No. 2, 72-82 (2013).

## EDUCATION

Washington University in St. Louis (WUSTL), St. Louis, MO, August 2012-May 2015

**Masters of Science in Chemical Engineering with Thesis**, May 2015, 3.80/4.0 GPA

University of Miami, Coral Gables, FL, August 2008-May 2012

**Bachelor of Science in Environmental Engineering**, May 2012, 3.73/4.0 GPA