

# MICHAEL A. BROWN, P.E.

Rule Engineering, LLC ♦ 1055 Kipling Street ♦ Lakewood, CO 80215 ♦ 303-431-8500

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## EDUCATION

UNIVERSITY OF IDAHO, Moscow, ID  
*Bachelor of Science-Geological Engineering, 1980*

UNIVERSITY OF COLORADO, Denver, CO  
*Master of Science-Civil Engineering, 1991*

## PROFESSIONAL EXPERIENCE

RULE ENGINEERING LLC, Lakewood, CO  
***Principal Engineer and Managing Member*** ***1997-present***

- Responsible for technical oversight of Rule's environmental work product.
- Technical expertise includes multi-media environmental permitting and auditing, development of operations oriented environmental management programs and systems; regulatory compliance strategy development and advocacy.
- Competent in federal and numerous state environmental regulations, including CAA, RCRA, CWA, OPA and EPCRA.
- Experienced in aspects of CERCLA and TSCA and process safety management.
- Significant experience providing environmental engineering and management services for petroleum refineries, related oil and gas facilities/terminals, manufacturing and construction.
- Responsibilities include managing the operational and financial aspects of Rule Engineering, LLC.

TOTAL PETROLEUM INC, Commerce City, CO

<b><i>Corporate Environmental Manager</i></b>	<b><i>1994 - 1997</i></b>
<b><i>Refinery Environmental Manager</i></b>	<b><i>1995 - 1996</i></b>
<b><i>Senior Environmental Engineer</i></b>	<b><i>1993 - 1994</i></b>
<b><i>Marketing Environmental Manager</i></b>	<b><i>1988 - 1993</i></b>

- Progressive responsibility for identifying and evaluating Total's environmental risks, and formulating, implementing and managing business focused environmental risk management solutions, programs and systems.
- Specific responsibilities and projects included: multi-media environmental auditing in refining; corporate risk probability and economic analysis.
- Management system formulation and implementation in refining and marketing.
- RFI and remediation project management at operating and non-operating refineries.
- Management of a NEIC multi-media inspection at a refinery.

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- Negotiations of federal and state alleged NOV's in air, water, waste and remediation.
- Assisted in risk management planning for a waterfront-terminal and refineries.
- Conducted a seven-jurisdiction area exercise at a waterfront-terminal.
- Provided technical support and expert testimony in federal court, arbitration and mediation.
- Completed all forms of environmental reporting for agencies, business units and corporate.
- Managed a \$10MM annual construction budget in marketing and multi-million dollar remediation budgets for numerous facilities/projects.

### **TRAINING AND CERTIFICATIONS**

CO Consultant ID #5780

40-hr HAZWOPER, current

8-hr HAZWOPER Refresher, current

CO LICENSED PROFESSIONAL CIVIL ENGINEER #23612, 1985-present.

TX LICENSED PROFESSIONAL CIVIL ENGINEER #108317, current.

UT LICENSED PROFESSIONAL CIVIL ENGINEER #8937074-2202, current.

WY LICENSED PROFESSIONAL CIVIL ENGINEER #13057, current.

OK LICENSED PROFESSIONAL CIVIL ENGINEER #27029, current.

OSHA 5810, 40-hr Oil & Gas Safety Training

Safe Land Training (Oil & Gas Safety Training)

ConocoPhillips Safety Leadership for Supervisors

DISA Drug & Alcohol Testing Program – Active Status