



JAMES HOWELL, PH.D., DABT

EDUCATION

- Ph.D., Toxicology, Texas A&M University, College Station, Texas 1998
- B.S., Biomedical Science, Texas A&M University, College Station, Texas 1994

PROFESSIONAL REGISTRATION

- Diplomate, American Board of Toxicology, 2003
- U.S. Coast Guard Licensed Master of Steam or Motor Vessels not more than 100 gross tons upon inland water, also Steam or Motor Vessels not more than 50 gross tons upon Near Coastal waters (Lic. #1028568)

PROFESSIONAL SUMMARY

Dr. Howell has over ten years of experience in environmental project management; regulatory compliance and permitting for both state and federal programs; the planning and development of human health and ecological risk assessments; litigation support and expert witness in toxic tort cases; and health and safety program development.

EMPLOYMENT HISTORY

- **December 2006- Present: Field Programs Manager, TDI-Brooks International, Inc., (College Station, TX)**
- **May 2006- December 2006: HSE Consultant, ENTEC Partners, LLP (College Station, TX)**
- **January 2004-May 2006: Senior Environmental Scientist/ Toxicologist, ATC Associates Inc. (Stafford, TX)**
- **April 2002- February 2003: Senior Toxicologist, Conestoga-Rovers Associates, Inc. (Houston, TX)**
- **April 1999- April 2002: Toxicologist, ERM Southwest, Inc. (Houston, TX)**
- **August 1998- April 1999: Toxicologist, TARA group, Texas Natural Resource Conservation Commission (Now the Texas Commission on Environmental Quality) (Austin, TX)**
- **September 1994-May 1998: Graduate Research Assistant, Texas A&M University (College Station, TX)**
- **September 1995- December 1997: Environmental Technician, Geochemical and Environmental Research Group (GERG) (College Station, TX)**

PROFESSIONAL EXPERIENCE.

- **Project Management- Affected Property Assessment Reports/ ConocoPhillips and Valero Portfolios/ Texas (statewide).** Senior project manager/senior scientist responsible for site investigations, sample analysis, APAR preparation and submittal to the TCEQ for site closure/ NFA permits involving over 50 petroleum retail sites statewide in Texas.

- **Project Management- Risk Evaluation / Orion Refining Complex / Norco, LA.** Senior Project Manager responsible for risk evaluation development for the Orion Refining Complex in Norco, Louisiana in compliance with Louisiana Department of Environmental Quality's (LDEQ) Risk Evaluation and Corrective Action Program.
- **Project Management- Risk-Based Sampling Plan / Unocal Corporation / Beaumont, TX.** Design and development of a risk-based sampling plan for the Unocal Corporation's Beaumont Terminal to provide data for an Affected Property Assessment Report (APAR) under the TRRP rule.
- **Project Management-Ecological Risk Assessments / Texas.** Senior Project Manager/Senior Environmental Scientist responsible for design, development and implementation of a Tier 3 ecological risk assessment per TRRP rules for a confidential client in Southeast Texas. Fieldwork includes monthly receptor surveys (primarily birds) and a fish tissue-sampling event.

Design, development, and implementation of a Tier 2 ecological risk assessment per TRRP rules for Resource Environmental, LLC, at a fuel terminal in Northeast Texas.

- **Project Management- Bioremediation Pilot Study / New Orleans International Airport.** Senior Project Manager responsible for design, development and implementation of risk-based sampling and a bioremediation pilot study for aviation fuel-affected soils under an existing parking lot at the New Orleans International Airport to determine the best remediation methods for obtaining a closure permit under LDEQ's RECAP Program.
- **Toxicology-air permitting / Commercial Facilities / Texas.** Toxicological evaluations for air emissions from 12 commercial facilities applying for air permits with the state of Texas.
- **Air Permitting.** Development of direct and indirect human health risk assessments on stack emissions for two facilities burning hazardous waste in BIF incinerators applying for title V permits.
- **Affected Property Assessment Report / Dow-Union Carbide / Texas City, TX.** Technical review and revision of an APAR for the Dow-Union Carbide Texas City facility's OPDA basins
- **Risk Assessments.** Development of Standard No. 1, 2, and 3 risk assessments under the TCEQ's 1993 Risk Reduction Rules for several clients. Major projects included:
 - The submittal of a Standard No. 3 RRA for the Chevron El Paso Refinery complex to facilitate closure of over 20 solid waste management units.
 - Review of a Standard No. 2 RRA for the Unocal terminal in Beaumont, Texas to determine remedial and financial implications of submitting under the 1993 Rules or the 1999 Texas Risk Reduction Program (TRRP).
- **Risk Reduction Program.** Toxicologist and Senior Scientist responsible for technical review and implications evaluation of the (then) proposed Texas Risk Reduction Program for a consortium of clients.
- **Litigation.** Litigation support and expert witness testimony development for several confidential clients (defendants) from various industries. Industry sectors include oil and gas refining, hazardous materials transportation, chemical production, international import / export (primarily Mexico), and commercial dry cleaning. Specific tasks varied from client to client, but primarily involved the assessment of

risk (real or perceived) to potentially affected residential populations, and/or ecological receptors. Property damage assessments were also performed in some cases.

- **Risk Evaluation / Louisiana.** Development of risk evaluations for several clients in Louisiana under the LDEQ's RECAP.
- **Environmental Health and Safety / Deer Park Refinery / Texas.** Environmental Health and Safety support for the Shell Deer Park Refinery. Projects included noise dosimetry and mapping for all process units, EH&S audits for the refinery, MSDS database filing, H2S monitoring, and design of a fixed H2S monitoring system for various process units.
- **Process Hazard Analysis.** PHA leadership and scribing for Shell Main Pass 252 platforms and Shell Yellowhammer gas plant and Mobile Bay 113 platforms.
- **Pipeline Risk Assessment.** Performed a pipeline risk assessment for Chevron Pipeline's Mont Belvieu hub in accordance with USDOT regulations.
- **Liability Evaluation / Midwest.** Development of a financial liability evaluation for a client involved in divestiture of several hundred retail petroleum stores in five Midwest states.
- **Review of Proposed Regulations.** Review and technical comments on United States Environmental Protection Agency proposed regulations, including: *the Draft Multimedia Strategy for Persistent, Bioaccumulative, and Toxic Chemicals*, the *Mercury Study Report to Congress*, the *RCRA Draft Waste Minimization Plan for Persistent, Bioaccumulative, and Toxic Chemicals*, and *the Disposal of polychlorinated biphenyls (PCBs); Final Rule (PCB Mega Rule)*.
- **Technical Review.** Review of Standard No. 1, 2 and 3 RRAs and APARs submitted for approval by various companies. Preparation of Notices of Deficiency (NOD) in response to those submittals.
- **Risk Assessment / Siberian Arctic.** Design, development and implementation of a human health risk assessment in the Siberian Arctic region of Russia. Tasks included environmental sampling of soil, sediment, water, and biological tissues in Russia, chemical analysis, and risk assessment report development. Performed in conjunction with the Office of Naval Research.
- **Toxicology.** Development of a novel microwave extraction method for biological tissues for pesticides, PCBs and PAHs.
- **Environmental Sampling.** Development and implementation of environmental sampling in the Lower Rio Grande Valley to delineate constituents of concern that might contribute to the anencephaly clusters observed in newborn infants during the early 1990s.

TRAINING AND CERTIFICATIONS

- EPA Region VI, *PCB Risk Assessment Review Training*, September 1998
- Persuasive Communications®, Phase I, *Advanced Sales Skills*, Spring 2000
- *Application of Health Risk Assessment for Environmental Decision Making*, April 2000
- Persuasive Communications®, Phase II, *Negotiation Skills*, Fall 2000
- 40-Hour Hazardous Materials Training (HAZWOPER), Renewed December 2005

- American Board of Toxicology Certification Examinations, Fall 2003
 - *Fundamentals of Process Safety Management (PSM)*, Mary K O'Connor Process Safety Center, Texas A&M University, August 2007
 - *Process Hazard Analysis Leadership Training*, Mary K O'Connor Process Safety Center, Texas A&M University, September 2007
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