



# PROFESSIONAL PROFILE



## David G. Dixon, PG

### Principal Geologist

#### CONTACT INFORMATION

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#### EDUCATION

MIM, Master of International Management (Accounting and Business Management), Schiller International University, Heidelberg, Germany, 1986  
BA, Earth Sciences (Geology), University of California, Santa Cruz, 1985

#### PROFESSIONAL LICENSES

Professional Geologist in California, 2000  
California Class A General Engineering Contractors License #839723 with Hazardous Substance Removal Specialty, 2004

#### EXPERIENCE SUMMARY

Focused on evaluating, characterizing, and cleaning up contamination at industrial, commercial, residential, school, hospital, recreation, wildlife refuge, and national park sites. He has helped clients re-use impacted soil onsite and negotiated reasonable land use controls for sites with residual soil or groundwater impacts. He has organized, moderated and been a panelist at many conferences, and has served on the educational session selection committee for the National Brownfields Conference. Mr. Dixon's redevelopment projects have won USEPA Region 9 Phoenix awards and a USEPA Environmental Hero award.

Mr. Dixon also has extensive experience with groundwater issues, including aquifer testing, conceptual modeling, extraction, and chemical and bioremediation technologies.

#### TECHNICAL SPECIALTIES

Thirty years of experience managing and conducting complex characterization and remediation projects, industrial facility permitting and RCRA closures, NPDES permitting and evaluations, Industrial stormwater evaluations and SWPPP preparation and implementation, CERCLA cost recovery actions, pre-acquisition site assessments, Brownfields redevelopment, litigation support and expert testimony, vapor intrusion and human health risk evaluations. Mr. Dixon is very experienced with remedial cost estimating, and has prepared the cost estimates for and conducted multimillion-dollar fixed fee remediation projects as the general contractor.

#### REPRESENTATIVE PROJECTS

##### Redevelopment & Remediation Projects

- Site Characterization and Remediation for Arsenic and Pesticide Impacted Soil for Retail Development, Santa Clara, California. Oversight agency: DTSC.** Project Principal for the characterization and mitigation for a 22-acre site planned for 1.5 million sf of office development which was impacted with historic arsenic, lead and pesticide impacts in soil and VOCs in groundwater. Prepared the characterization work plan, response plan, transportation plan, air monitoring plan etc. for DTSC under a CLRRRA agreement. Arsenic was the primary contaminant of concern in soil, as well as VOCs in groundwater. The Site had had many past uses, including agricultural, commercial and industrial. The site soil characterization was conducted at a very high resolution (4-inch intervals) which minimized the excavation volumes. Additionally, clean samples in the vertical columns were used as pre-excavation confirmation samples to remove the need for post-excavation confirmation soil sampling. This saved time and costs by providing known excavation volumes. The remediation involved excavation and relocation or offsite disposal of 50,000 cubic yards of arsenic impacted soil at the Site. Ongoing project.
- Shotgun Shooting Range Characterization and Remediation, Newark, California.** Managed the soil characterization, agency negotiation and remediation at an 18-acre former shotgun shooting range heavily impacted with lead shot in Newark, California. Negotiated the scope of the remedial work and cleanup concentrations with regulatory oversight agencies including the Regional Water Quality Control Board and the Army Corp of Engineers (half the site was designated wetlands). Early in the process agency concurrence was obtained that groundwater was not impacted, and no groundwater monitoring would be required. Prepared a remedial work plan, a remedial bid specification package and obtained and evaluated bids from remedial contractors. Managed the excavation, waste characterization, onsite treatment of RCRA hazardous waste, and waste disposal tasks. Using GPS, laser levels and specialized grading equipment, the several-acre remedial area was excavated to within 0.5-inch accuracy.



Maintaining these tight excavation tolerances resulted in reducing soil volumes and saving the client time and money.

- **Site Characterization and Remediation for Arsenic and Pesticide Impacted Soil & Vapor Mitigation for Residential development. Santa Clara, California. Oversight agency: DTSC.** Project Principal for the characterization and mitigation for a 30-acre site planned for a new retail center impacted with arsenic, lead, and pesticides in soil. Prepared plans and reports for DTSC under a CLRRRA agreement. Arsenic and pesticides exceeded hazardous waste criteria in soil at the Site and chlorinated compounds in groundwater from an offsite superfund site. The Site had had many past uses, including agricultural, commercial, and industrial. The site soil characterization was conducted at a very high resolution (4-inch intervals) which minimized the excavation volumes. Additionally, clean samples in the vertical columns were used as pre-excavation confirmation samples to remove the need for post-excavation confirmation soil sampling. This saved time and costs by providing known excavation volumes. The remediation involved excavation and relocation of 50,000 cubic yards of arsenic impacted soil at the Site to avoid off haul of impacted soil. Vapor mitigation systems were designed and installed below residential buildings.
- **Environmental Consultation and Planning for City of Alameda at Alameda Point, Alameda California. Oversight Agencies: USEPA, DTSC, Water Board, CA Fish and Wildlife.** Lead environmental consultant to the City of Alameda to oversee the cleanup, transfer of title and re-development of the former Alameda Naval Air Station (Alameda Point). The Site is on the National Priorities List (NPL) for environmentally impacted sites and has over 30 CERCLA units and over 100 open petroleum tank and pipeline locations. Tasks include reviewing and commenting on Navy cleanup actions, meetings with regulatory agencies including the USEPA, DTSC, RWQCB, evaluating proposed Land Use Controls (LUCs), preparing LUCs and deed notifications, and proposed parcel transfers, conducting assessment on behalf of the City, reviewing developer plans and investigations, on deed restrictions, title transfers, and assisting the City with environmental issues for transportation related projects and infrastructure improvements.
- **Site Characterization Planning and Remediation for the First LEED Platinum College Campus. Newark, California. Oversight agency: DTSC.**
  - 2012 EPA Region 9 Phoenix Award Winner
  - Winner of EPA's Environmental Hero AwardProject manager for the characterization and cleanup for an 80-acre former agricultural site planned for the new Ohlone

Community College Campus. The characterization work identified pesticides in soil exceeding regulatory agency guidance for school sites and Mr. Dixon subsequently assisted the school district negotiate a voluntary cleanup agreement with the DTSC. Site documents prepared included investigation reports, a Removal Action Work Plan, a Risk Assessment, a Brownfields Work Plan and a Quality Assurance Project Plan. Evaluated multiple remedial options, which included bench testing new remedial technologies for pesticide remediation. Completed the cleanup to unrestricted use criteria. Additionally, Mr. Dixon took the lead in helping the district obtain a \$200,000 USEPA Brownfields cleanup grant.

- **Site Characterization and Remediation for Arsenic and Pesticide Impacted Soil for Retail development. Santa Clara, California. Oversight agency: DTSC.** Project Principal for the characterization and mitigation for a 14-acre site planned for a new retail center impacted with arsenic, lead and pesticides in soil. Prepared plans and reports for DTSC under a CLRRRA agreement. Arsenic was the primary contaminant of concern in soil. The Site had had many past uses, including agricultural, commercial and industrial. The site soil characterization was conducted at a very high resolution (4-inch intervals) which minimized the excavation volumes. Additionally, clean samples in the vertical columns were used as pre-excavation confirmation samples to remove the need for post-excavation confirmation soil sampling. This saved time and costs by providing known excavation volumes. The remediation involved excavation and relocation of 38,000 cubic yards of arsenic impacted soil at the Site avoid off haul of impacted soil.
- **Dry Cleaner Characterization for Property Owner Prior to Sale, Oakland, California.** Managed the soil, water and vapor characterization for the owner and operator of a dry cleaner in preparation for the sale of the property. The site building was purpose built as a large dry cleaning operation in downtown Oakland, and had been in continuous use since the 1970's. In order to facilitate the sale of the property, the seller chose to pre-characterize potential releases prior to marketing the property. Performed two rounds of investigation which largely delineated the extent of impacts, and prepared preliminary remediation cost estimates which became part of the disclosure documents to potential buyers. Our role included discussing our findings and cost estimates with potential buyers on behalf of the seller.
- **Environmental Site Assessments.** Managed environmental site assessments and audits at 100s of sites. The various projects included reviewing regulatory records, aerial photographs and results of previous investigations; conducting asbestos surveys and regulatory compliance audits; evaluating properties for potential liability due to hazardous waste contamination; and

preparing remedial cost estimates. Assessments were performed at manufacturing facilities for semiconductors, clothing, food products, and building materials, and at gasoline stations, auto and truck repair facilities, machine shops, dry cleaners, mixed-use business parks, and shopping malls.

- **Site Assessment, EIR Review, Construction planning and Soil Management, Proposed Life Science Campus at Former Steel Factory. South San Francisco, California.** Assisted the client's legal counsel and project/construction management firm, Project Management Advisors (PMA), with environmental due diligence during purchase of 20-acre Site, which was formerly a portion of a US Steel factory. Site structures were previously removed and lead, hydrocarbon and PCB impacted material had been placed and covered with an engineered cap over a majority of the Site. Project tasks included:

- Preparing preliminary cost estimates associated with hazardous materials issues to re-develop site.
- Reviewing and commenting on the Supplemental Environmental Impact Review.
- Conducting regulatory agency required Cap inspections.
- Consulting with management, design and construction team members to help minimize the hazardous materials exposure and costs.
- Overseeing mitigation measures during redevelopment.

- **Site Characterization and Vapor Mitigation for Residential & Park Development. Sunnyvale, California.** Oversight Agency: Water Board. Project Principal for the environmental due diligence for acquisition, characterization and mitigation for a 32-acre Site planned for residential development. The primary concern was past agricultural use and chlorinated volatile organic compound (VOCs) impacts in groundwater. Groundwater across the Site is impacted with VOCs in groundwater due to off-site releases at a federal Superfund site and two other sites. Prepared the characterization work plans, conducted multiple rounds of investigation, a vapor risk assessment and a Site mitigation plan for the proposed development. Currently designing sub-slab vapor mitigation systems for all residential structures. Ongoing project.

- **Characterization, Cleanup and Redevelopment, Stockton Redevelopment Agency. Oversight agencies: DTSC and RWQCB.**

- 2008 EPA Region 9 Phoenix Award Winner

Project manager for environmental characterization and cleanup at the Stockton Event Center on 10 parcels planned for redevelopment in Stockton, California. Redevelopment included a baseball stadium, indoor sports arena, hotel and retail stores. The parcels about the Stockton ship channel and were previously

used for fuel storage, paint manufacturing, shipbuilding, and light industry. Helped prepare the initial Phase I Site Assessments, conducted soil and groundwater investigations, and prepared a Remedial Action Plan (RAP), focusing on issues that could impact development of the properties. Retained by the City to manage all environmental aspects of the \$80 million development, including permitting, closure of UST remediation programs, RAP compliance and cleanup. The cleanup was conducted on a short time frame as part of the mobilization and re-development process.

- **Site Characterization, RCRA Unit Closure, Remedial Oversight for Hospital Development, San Carlos, California.** Oversight agency: DTSC and RWQCB. Managed all aspects of the RCRA closure, site characterization, remedial feasibility study, and remediation oversight at a 55-year-old, 18-acre industrial facility. The facility had over 30 RCRA solid waste management units (SWMUs) and areas of concern (AOCs). Assisted the client in negotiating a liability transfer agreement as part of the sale of the facility, and conducted the third part oversight of the more than \$8 million remediation to unrestricted use criteria on behalf of the former facility owners and operators. A hospital was proposed for construction at the Site. Groundwater impacts included 4 groundwater plumes of chlorinated compounds (primarily TCE) and a plume of gasoline and metals. Soil impacts included metals, chlorinated compounds, petroleum hydrocarbons, and PCBs. The Facility also had a large electrical transformer system with underground piping and central filtration of PCB containing oil. The facility assessment and closure included evaluating historical and current hazardous waste and material storage and use and evaluating waste streams. The Site received a no further action finding in.

- **EPA Brownfields Assessment Grants for Petroleum and Hazardous Material Sites for the City of San Pablo, California.** Mr. Dixon managed the \$400,000 USEPA Brownfields Assessment grants for hazardous materials (\$200,000) and petroleum hydrocarbons (\$2,000,000) for the City of San Pablo, California. The project tasks included:

- Conducting a Brownfields Inventory along a six-mile corridor that encompasses the City's traditional commercial and heavy industrial areas and integrating these results with City's graphical interface system (GIS).
- Preparing relative risk categories and criteria to screen the inventory for known or likely hazardous material impacts in soil, groundwater or soil gas and selecting up to 24 sites for Phase I Environmental Site Assessments (ESAs). Hazardous materials risk rankings were developed along with planning, zoning and redevelopment plan information from the City and other stakeholders.

- Conducting Phase I and Phase II ESAs and supporting documents. The Phase II selection were prioritized based on input from the City, the USEPA and other stakeholders; and
- Assisting the City with its EPA grant reporting requirements.
- **Characterization and Remediation of a former Unocal Bulk Oil Storage Facility for Redevelopment, Stockton, California.**  
**Oversight agency: RWQCB.** Managed the site characterization, agency negotiations and cleanup of the former Unocal bulk oil storage facility on the southern side of the Stockton Ship channel. Worked as the environmental consultant and general contractor for the \$3,000,000 characterization and cleanup project. Excavated over 30,000 cubic yards of contaminated soil, designed in-situ remediation and extraction basins, and obtained regulatory agency approval of soil cleanup at the Site. The project included preparing public fact sheets, community mailers and creating a project website for community and stakeholder access.
- **Characterization, and Implementation of Enhanced Biologic Degradation of a PCE Plume. Santa Clara, California.** Oversight agency: RWQCB. Senior manager and technical oversight for the characterization, remedial alternatives evaluation, remedial design and implementation of a two-zone groundwater plume of TCE and associated daughter products. The plume extended below onsite and offsite active manufacturing facilities. The remediation program included chemical oxidation followed by enhanced anaerobic biodegradation. The remediation program succeeded at reducing PCE in groundwater with an average baseline concentration of 45,000 micrograms per liter (µg/L) to below reporting limits within a year. The Site currently has several years of post-remediation groundwater monitoring and of natural attenuation parameter assessment, contingency plan, and prepared a closure report for the site.
- Groundwater Monitoring and Evaluation for 19 Sites, Presidio of San Francisco. Oversight agencies: RWQCB and USEPA. Project manager for a multi-year groundwater monitoring program encompassing this 1,200-acre former military base. Developed the schedule and budget to collect groundwater samples from over 150 wells at nineteen sites on a quarterly basis, with detailed quarterly and annual reports prepared for state and federal agencies. Most sites were petroleum release sites, and several were former landfills. Reviewed past characterization reports and information on natural background levels of metals in soil and groundwater.
- **Site Due Diligence, Characterization and Cleanup of Pesticide and Lead Impacted Soil, Presidio National Park, San Francisco, California.** Project manager for hazardous materials and waste assessment and cleanup at the Public Health Services Hospital (PHSH) area at the Presidio of San Francisco for the project developer. The assessment included the main 180,000

square foot hospital building planned for residential re-use and several smaller adjacent buildings. Our scope included reviewing existing survey reports, conducting new lead paint and asbestos surveys, and soil and groundwater investigations to assess the scope and cost of the environmental issues on the project. We assisted with bid specifications for the hazardous materials abatement, met with regulators to develop plans to address lead-based paint in soil and pesticide impacted soil, supervised the soil cleanup and received Site Closure.

### Environmental Compliance Projects

- **Level I and Level II Exceedance Response Actions for Stormwater. Multiple Facilities State-Wide, California.**  
Managed and prepared the Level 1 Exceedance Response Action (ERA) evaluations and reports, and Level II ERA action plans and technical reports for facilities throughout California. Evaluated facility exceedances of Numeric Action Levels (NALs) and assisted with reducing discharge concentrations to below the NALs. Where NAL exceedances were not being caused by facility industrial activities, we conducted Non-Industrial and Natural Background studies. The non-industrial studies have included studies of pollutant contributions from off-site stormwater run-on, aerial deposition, impacts in precipitation, and non-industrial sources at the Facility.
- **Environmental Compliance Audit and SWPPP Evaluation at Industrial Facility for U. S. Department of Justice. Confidential location, California.** Team member of an environmental audit team working on behalf of the U. S. Department of Justice (USDOJ) in accordance with a consent agreement between the Pre-cast concrete production facility and the USDOJ. The consent agreement requires that an independent third-party auditor approved by the USDOJ conduct an audit to confirm compliance with the Facility Environmental Compliance Plan. Mr. Dixon's role on the audit team is to evaluate compliance with the industrial storm water NPDES permit, hazardous waste transport and disposal regulations, and the USDOJ consent agreement. The tasks include reviewing the Consent Agreement, relevant Facility correspondence with USDOJ and regulatory agencies, past annual reports and quarterly compliance summary reports, conducting the Facility audit, and preparing an audit report.
- **Site Evaluations and SWPPP Preparations. Multiple Facilities State-wide, California.** Managed the facility inspections, BMP evaluations and recommendations, prepared annual reports and new SWPPPS for the previous and current California General Industrial Permit for Storm water at many facilities throughout California. Continuing to consult on stormwater compliance at multiple facilities.



- **Environmental Compliance and Permit Transfer and Closure at Solar Fabrication Facility. Milpitas, California.** Oversight agency: Local and County CUPA Agencies. The solar facility went bankrupt and they abandoned all materials, equipment and hazardous waste to the property owner. Roux assisted the property owner with identifying all hazardous materials and wastes, bringing the facility into environmental compliance, closing out or transferring all permits and conducting a RCRA facility closure. Managed the cleaning and decommissioning of all equipment as the general contractor and assisted in preparing the site for sale to a new industrial owner/operator.

### Litigation Support Projects

- **Litigation Support, Clean Water Act Case involving Stormwater at Municipal Recycling Facilities. Glendale and El Cerrito, California.** Assisted with the litigation support for a suit filed under the Clean Water Act for storm water releases at a municipal recycling center s and waste transfer stations in Glendale, Ca. The facility was operating under the California General Permit for Industrial Storm Water. Evaluated past site and regional sampling data and evaluated facility BMPs. Reviewed complaint and evaluated the technical basis of each claim, prepared responses for counsel, and reviewed and commented on correspondence. Visited the Site and assisted with evaluating Facility Best Management Practices.
- **Litigation Support & Expert Testimony for Clean Water Act Case involving facility NPDES permit, storm water discharges and TMDLs. Santa Clarita, California.** Litigation expert for a suit filed under the Clean Water Act involving claimed violations of the facility-specific NPDES waste water discharge permit industrial storm water runoff, and exceedances of receiving water limitation TMDLs. Prepared expert report evaluating technical basis of complaint. Reviewed the letter of intent to sue and complaint, and evaluated the technical basis of claims. Inspected the facility and evaluated BMPs. Prepared responses for counsel, and reviewed and commented on correspondence. Evaluated past site sampling data and regional stormwater, groundwater and receiving water sampling data, researched meteorological and regional background soil data. Consulted with legal counsel on potential settlement terms and associated costs.
- **Litigation Support & Expert Testimony, for Historic Landfill Site, Orange, California.** Reviewed years of data collected by others and prepared an expert declaration on behalf of the City of Orange who currently owns the Site and is in litigation with the County who previously owned and operated the landfill. Visited the Site and conducted a limited soil investigation to address a data gap. Testified on the nature and extent of soil and groundwater contamination at the Site. The City is seeking compensation for ongoing settlement and soil gas generation issues.
- **Litigation Support & Expert Testimony, Characterization and Reporting, Clean Water Act Case involving Stormwater at an Industrial Facility. Vacaville, California.** Assisted with the litigation support for a suit filed under the Clean Water Act for stormwater releases at an industrial facility operating under the California General Industrial NPDES Permit, and prepared the expert declaration in support of summary judgment. Evaluated past site and regional sampling data, researched meteorological and regional background soil data, and evaluated facility Best Management Practices (BMPs). Reviewed complaint and evaluated the technical basis of each claim, prepared responses for counsel, and reviewed and commented on correspondence. Led the site inspection with opposing counsel and their expert. Took over compliance monitoring, site inspection and reporting tasks. Conducted soil and potential source sampling and evaluation investigations and received RWQCB concurrence that metal exceedances of EPA Benchmarks are due to naturally occurring conditions and not facility operations. Prepared technical letters and consulted with legal counsel on potential settlement costs. The case was dismissed by plaintiff after the request for summary judgment was filed.
- **Litigation Support, Site Characterization, Site Conceptual Model and Remedial Cost Estimating, Stockton, California.** Assisted with the litigation support for a case involving a property owner seeking to recover cleanup costs from historic hazardous material releases originating from a railroad line at the site. Reviewed the results of previous investigations, identified data gaps, conducted a soil and groundwater investigation, developed a site conceptual model with detailed cross sections and prepared remedial estimates. A focus of the investigation was to determine the forensics of how the rail lines and associated subsurface improvements facilitated the migration of the contamination. The investigation included conducting soil borings and digging multiple 18-foot-deep trenches across the rail lines to identify the presence and extent of pipelines, gravel backfill and to map soil discoloration.
- **Litigation Support, Characterization and Reporting, Clean Water Act Case involving Stormwater at a Metals Recycling Facility. Sacramento, California.** Assisted with the litigation support for a suit filed under the Clean Water Act for stormwater releases at an industrial facility operating under the California General Permit for Industrial Storm Water. Evaluated past site and regional sampling data and evaluated BMPs. Reviewed complaint and evaluated the technical basis of each claim, prepared responses for counsel, and reviewed and commented on correspondence. Led the site inspection with opposing

counsel and their expert. Revised the Facility SWPPP, implemented new BMPs, and took over compliance monitoring, site inspection and reporting tasks. Prepared technical letters and consulted with legal counsel on potential settlement costs. Designed new stormwater filtration systems that have been effective in meeting storm water quality goals.

- **Litigation Support & SWPPP Preparation in Clean Water Act Case at Industrial Facility. Santa Rosa, California.** Retained by legal counsel after the industrial facility operating under the California General Industrial NPDES Permit was served with a notice of intent to sue under the Clean Water Act. Conducted a SWPPP compliance audit and prepared a new SWPPP for the facility. Evaluated facility BMPs and developed and helped implement new BMPs. Reviewed the intent to sue letter and evaluated the technical basis of claims and prepared responses for counsel. Conducted a site inspection with a North Coast RWQCB inspector and obtained a Notice of Termination for the facility prior to the Clean Water Act case being filed. Attended mediation and assisted with final settlement.
- **Litigation Support, Clean Water Act Case involving Stormwater at an Industrial Facility. Gilroy, California.** Assisting with the litigation support for a suit filed under the Clean Water Act for storm water releases at an industrial facility operating under the California General Permit for Industrial Storm Water. Evaluated past site and regional sampling data and evaluated facility BMPs. Reviewed complaint and evaluated the technical basis of each claim, prepared responses for counsel, and reviewed and commented on correspondence. Led the site inspection with opposing counsel and their expert.
- **Litigation Support & SWPPP Preparation in Clean Water Act Case at Industrial Facility. Santa Rosa, California.** Retained by legal counsel after the industrial facility operating under the California General Industrial NPDES Permit was served with a notice of intent to sue under the Clean Water Act. Conducted a SWPPP compliance audit and prepared a new SWPPP for the facility. Evaluated facility BMPs and developed and helped implement new BMPs. Reviewed the intent to sue letter and evaluated the technical basis of claims and prepared responses for counsel. Conducted a site inspection with a North Coast RWQCB inspector and obtained a Notice of Termination for the facility prior to the Clean Water Act case being filed. Attended mediation and assisted with final settlement.

## PUBLICATIONS

Publication “In-Situ Chemical Oxidation and Enhanced Anaerobic Biodegradation of a PCE Plume.” Battelle's 7th International Conference proceedings on Remediation of Chlorinated and Recalcitrant Compounds. October 2010.

Publication “Revitalizing an Urban Industrial Waterfront” Article in Brownfield Renewal Magazine. February 2010.

## PRESENTATIONS

Presentation “Preparing for the new Industrial Permit Level 2 Requirements,” Industrial Stormwater Workshop, California Stormwater Quality Association (CASQA), Annual Meeting, San Diego, CA. 2016.

Panel Organizer/Moderator and Presenter “From Fields to Fallow: Characterizing Agricultural Property,” National Brownfields Conference, Denver, CO. 2005.

Panelist “Emerging Issues with Due Diligence” San Francisco Bar Association Environmental Law Section, MCLE presentation, San Francisco, CA. 2018.

Panelist “Beyond Dig and Haul” California Land Recycling Conference” California Land Recycling Conference, Carson, CA. 2018.

Panelist “Saving the Deal when Unexpected Environmental Issues Arise” California Bar Association Real Estate Section Annual Meeting, San Francisco, CA. 2018.

Panelist “Determining Natural Background in Stormwater,” California Stormwater Quality Association (CASQA), Annual Conference, Sacramento, CA. 2017.

Panelist “Environmental Due Diligence for Real Estate Transactions” California Bar Association Real Estate Section Annual Meeting, Napa, CA. 2017.

Panelist “Conducting Environmental Due Diligence – Why, How and When” California Bar Association Annual Meeting, San Diego, CA. 2016.

Panelist “The EPA and the Clean Water Act” Toxic Tort Seminar with Goldberg Segalla LLP, Chicago, IL. 2016.

Panelist “Due Diligence for Real Estate Transactions” San Francisco Bar Association Environmental Section, San Francisco, CA. 2015.

Panelist “Vapor Intrusion Concerns at Brownfield Sites: VI Risks and Mitigation Methods” National Brownfields Conference 2013, Atlanta, GA.

Panelist “2012 Phoenix Award Winners” National Brownfields Conference 2013, Atlanta, GA.

Panelist “Measuring Sustainability at Brownfield Developments” National Association of Landscape Architects (ASLA) National Convention. Phoenix, AZ. September. 2012.

Panel Organizer/Moderator “Understanding Redevelopment after the dissolution of California Redevelopment Agencies” Commercial

## PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers

American Water Works Association

Solid Waste Association of North America



Realty Professional Network Luncheon. San Francisco, CA. March 2012.

Panel Organizer/Presenter "Metrics of Brownfield Developments"  
National Brownfields Conference 2011. Philadelphia, PA.

Presentation "In-Situ Chemical Oxidation and Enhanced Anaerobic  
Biodegradation of a PCE Plume" Battelle's Conference on  
Remediation of Chlorinated and Recalcitrant Compounds,  
Monterey, CA. May 2010.

Presentation "Strategies to Pursue Sustainable Brownfield  
Redevelopment: The City of Stockton, CA" RTM conference on  
Sustainable Property Transactions: Reconfiguring the Business of  
Contaminated Site Redevelopment. San Francisco, CA. October  
2009.

Presenter/Panelist "The Role of Community Planning in Brownfields  
Development" National Brownfields Conference 2009. New  
Orleans, LA.