

DORINDA SHIPMAN, PG, CHG, ENV SP

PRINCIPAL/VICE PRESIDENT

ENVIRONMENTAL ENGINEERING & PROGRAM MANAGEMENT

Ms. Shipman is a senior director and hydrogeologist. Her previous experience managing U.S. Navy base cleanup work transformed to directing environmental work at the five large military base conversions. She has provided expert witness services in California Superior Court regarding underground storage tank cleanup, closure and vapor mitigation. She is currently providing expert services for multiparty federal court cases related to groundwater contamination and cost recovery. She also directs groundwater flow and fate and transport modeling for litigation support and cost allocation. Ms. Shipman is also experienced in strategy development for environmental compliance and management, regulatory agency negotiation and community and public outreach. Dorinda's expertise includes site characterization, human and ecological risk evaluation, remediation and risk management for metals, VOCs, petroleum hydrocarbons, pesticides and PCBs at industrial landfill, manufactured gas plant, shipyard, airfield, and military base contamination sites. Her projects have involved USEPA, California RWQCB and DTSC, California local Air Districts and county agency oversight.



SELECTED PROJECTS

Preliminary Endangerment Assessment, Pasadena, CA

Principal in charge for site investigation and human health risk and vapor intrusion assessment due to historical releases from USTs and a dry-cleaning facility. Using historical information from RWQCB files and recent data collected under California Department of Toxic Substances Control's (DTSC's) oversight, we successfully demonstrated the site risks were below the low end of DTSC's risk management range, that vapor mitigation measures were not needed and that no further action was warranted. DTSC determined no further action was needed.

Former FMC Central Plant Redevelopment to Earthquakes Paypal Soccer Stadium, San Jose, CA

DTSC had ordered a closure of the former Central Plant following an RCRA facility investigation. To address DTSC's corrective measures, Langan assisted the construction team to comply with the agency's approved Soil Management Plan, worked with DTSC to recycle concrete from the former FMC industrial facility, and evaluated potential vapor intrusion risks from residual volatile organic compounds, which demonstrated that a sub-slab vapor mitigation system was unnecessary. FMC had previously extracted, treated and monitored groundwater and we worked with DTSC to relocate some monitoring wells to avoid access issues based on the stadium design, to modify sampling schedules to avoid sample collection during MLS season, and to downsize the existing groundwater treatment system to increase seating design options. We also obtained DTSC's approval to use onsite extracted groundwater for dust control. We performed construction observation services and assisted with waste profiling, stockpiling, and reuse and disposal options. We prepared a closure report documenting all work conducted per the Soil Management Plan.

EDUCATION

M.S., Geology
(Hydrogeology Option)
Wright State University

B.S., Geology (cum laude)
Ohio University

PROFESSIONAL REGISTRATION

Professional Geologist
(PG) in CA, NY, WA

Certified Hydrogeologist in
CA, WA

Certified Environmental
Manager in NV

PROFESSIONAL AFFILIATIONS

- National Ground Water Association
- Groundwater Resources Association of California
- Center for Creative Land Recycling (CCLR), Advisory Board member

LANGAN

Underground Storage Tank (UST) Soil Vapor Impacts, San Mateo, CA

Provided technical; support for a site with vapor intrusion into indoor air by soil gas impacted by methane and VOCs from former leaking underground storage tanks. Performed investigation and monitoring, remedial planning and cost estimating, and designed and implemented vapor mitigation system under San Mateo County Environmental Health oversight. Provided technical support and expert testimony in California Superior Court for successful application for default judgment and assignment of California UST Fund rights of the UST operator to client.

Insurance Coverage Dispute Expert Services, Confidential, CA

Providing expert witness support in federal case for plaintiff seeking damages and coverage for contaminated groundwater cleanup. Prepared and provided expert and rebuttal reports and testimony in two depositions to provide opinions on contaminant releases to soil which contaminated groundwater used for domestic and agricultural purposes. Releases causing groundwater impacts were associated with multiple operations by numerous parties over 30 years before and during the insurance period.

Confidential Drycleaning Facility Mediation Support, Los Angeles County, CA

Providing technical support for a federal case involving PCE releases from a dry-cleaning operation. Prepared an expert report providing opinions on the likely release of PCE to soil, reasonableness of past costs incurred for regulatory response, NCP compliance and estimated future costs for cleanup of soil and groundwater contamination. Reviewed and provided opinions on defendant's expert opinions.

Response to Alleged Violation Associated with Solid Waste, Monterey County, CA

Evaluated regulatory requirements, conducted a site reconnaissance and soil sampling and testing to assist a litigation matter between a property owner who alleged that a former property tenant left waste buried on the leased property. We prepared a technical memorandum in response to a notice of violation (NOV) letter which resulted in County regulators reversing the NOV and the property owner withdrawing the alleged waste disposal.

Confidential Superfund Site Mediation Support, Los Angeles County, CA

Provided litigation support for a confidential client who was alleged to be a responsible party for a superfund site groundwater remediation. Our client owned two adjacent properties where commercial/industrial activities took place that were alleged to have released hazardous substances which migrated into the groundwater plume. Langan reviewed hydrogeological and chemical data from the nearby superfund and four other surrounding sites with five groundwater plumes were present in the area. We determined that groundwater flow directions reported by others were incorrectly indicating contaminant migration towards the superfund site instead of directly south. Operational history indicated chemicals potentially released on client's properties did not involve chlorinated VOCs associated with the superfund site. We used a groundwater model created by others to demonstrate that the superfund groundwater remediation system would not capture groundwater beneath our client's properties and demonstrated that groundwater from three upgradient sites was migrating beneath our client's properties.

Groundwater Supply Impacts Expert Report, Orange County, CA

Directed a technical team to estimate potential role of two businesses and the TCE and 1,1DCE impacts on water supply wells. We evaluated the clients' site data and potential relevance to the impacts on nearby drinking water supply wells. We evaluated National Contingency Plan compliance of the water

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agency's investigation and proposed cleanup and prepared an expert report. We also reviewed and commented on the water agency's expert reports.

Recent Publications and Presentations

2021, "What is Functional Equivalency Under the Clean Water Act?" National Groundwater Association (with Steven L. Hoch)

2021, "Functional Equivalency? Assessing Groundwater Discharges Under County of Maui," The Environmental Law Reporter (with Steven L. Hoch, Philip T. Tringale and Elizabeth Kimbrel)

2020, "Chase Center arena in San Francisco excels above and below ground," ASCE Civil Engineering Source (with Wyatt Henderson, Emily Carlip and Lori Simpson)

2018, "Transforming Alameda Point: Reuse and Revitalization of a Superfund Site," Battelle International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Palm Springs, California (with Christina Rain)

2018, "Geology of San Francisco, California, United States of America, Geology of the Cities of the World Series," Association Engineering Geologists (with J. Baldwin, et. al)

2018, "Redevelopment of Treasure Island: Overcoming Long-lasting Remedial Challenges," Battelle Eleventh International Conference on Remediation of Chlorinated and Recalcitrant Compounds (with Elizabeth Kimbrel, Chris Glenn, and Robert Beck)

2016 "The Remediation, Redevelopment, and Revitalization of Treasure Island," Battelle Tenth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (with Chris Glenn)