

**Mindy E. Jenkins, PG, CSST**  
***Principal Geologist***  
**Waterstone Environmental, Inc.**

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Mindy Jenkins is a Professional Geologist, Certified Site Surveillance Technician, and Principal Geologist at Waterstone Environmental, Inc. bringing over 20 years of experience to Waterstone, and having gained knowledge and worked in a variety of disciplines within environmental consulting and project management. Work has been conducted for numerous commercial and various industrial properties, government military bases, local school districts, and the private sector, with extensive experience preparing and implementing workplans and remedial action plans for soil, soil vapor and groundwater investigation and remediation, and obtaining regulatory closure on environmental issues.

Primary responsibilities for Waterstone include providing litigation support, preparing and implementing environmental remediation plans, and supporting 3D modeling output, with an overall emphasis in Phase II Environmental Assessment activities. Ms. Jenkins is very competent in pre-field planning of Phase II activities by preparing proposals and project costs, completing all subcontract agreements, preparing health and safety plans, communication and coordination with subcontractors, project data management, report preparation, geologic soil borings and well installation logs, in addition to implementing the scope of work. Strengths lie in the organizational and budgetary structure of projects.

Other responsibilities involve groundwater monitoring well installation and quarterly sampling; supervising an assortment of crews in relation to hand augering, hollow stem drill rigs, direct push drill rigs, backhoes, air rotary rigs, and Cone Penetrometer (CPT) units; tabulation and evaluation of analytical result for use with field personnel and report writing; environmental oversight during large scale shallow and deep soil remediation projects; data compilation for litigation support; and completing Phase II Environmental Assessment reports.

**Education**

- B.S., Geology, California State University of Long Beach
- Environmental Management Certificate, UCI Extension

**Specialized Training and Certifications**

- **California Professional Geologist #8613**
- **California AHERA Certified Site Surveillance Technician #08-4390**
- OSHA 40-HR HAZWOPER Training, 2002
- OSHA 8-HOUR HAZWOPER Supervisor Training 2002
- First Aid and CPR Biennial Training, 2002-present
- OSHA 8-HOUR HAZWOPER Annual Refresher, 2003-present
- Trimble GPS and RTK Certification, 2004
- 2-Hour Asbestos Awareness Training, 2004

- Level I XRF Training, 2006
- 24-Hour AHERA Building Inspector, 2007
- 40-Hour AHERA Supervisor Training, 2008
- NIOSH 582 Equivalent 32-HOUR Certification, 2009
- CDPH Lead Inspector/Assessor 16-HOUR Training, 2011
- CDPH Lead Worker 24-HOUR Training, 2011
- Rule 403 SCAQMD Fugitive Duct Control Training, 2022

### **Key Responsibilities**

- HAZWOPER Training Modules
- Installation of Groundwater Monitoring and Vapor Extraction Wells
- Operation and Maintenance of Remediation Extraction Systems
- Scheduling and Creating Subcontract Agreements for Phase II Projects
- Soil Sampling, Logging and Electronic Boring Log Creation
- LARWQCB GeoTracker Site Requisition and Data Uploads
- Design and Implementation of Task Specific Field Forms
- Phase II Report Writing
- Project Management
- Project Proposal Writing
- Project Budget Tracking

### **Project Capabilities**

- Remedial Action Workplans and Remedial Action Completion Reports
- Preliminary Environmental Assessments
- Phase II Environmental Site Assessments
- Groundwater Well Installation, Purging and Sampling
- Quarterly Groundwater Monitoring, Remediation and Reporting
- Soil, Soil Vapor and Groundwater Sampling
- Hollow Stem Auger Rig Supervision
- Cone Penetrometer (CPT) Supervision
- Ozone Sparge Injection Operation and Maintenance
- High-Vacuum Dual Phase Extraction (HVDPE) System Oversight
- HiPOx Pilot Testing
- Field Operations and Hazardous Materials Management
- Computer Aided Drafting

### **Industry Associations**

- Geological Society of America
- Interstate Technology & Regulatory Council (ITRC) Team Member
  - TPH Risk Evaluation at Petroleum-Contaminated Sites
- Association of Environmental and Engineering Geologist

## **Key Projects and Experience**

### *School District Projects*

- Task manager for local community college district demolition and new construction project. Mitigated construction response activities while maintaining site safety and managing environmental removal areas during demolition. Implemented all aspects of DTSC-approved sampling and RAP removal areas. Key responsibilities were to communicate regular progress of the project activities with DTSC and lead college district management, innovative assessment of unknown environmental conditions, and effectively manage budgetary restraints.
- Managed multiple large-scale environmental removal action projects at several active and proposed school sites for a local school district. Key responsibilities were to maintain the progress of the project tasks, ensure proper collection and handling of samples, interact daily with both school district project management and both DTSC and RWQCB agency representatives, as well as maintain the safety of the work environment for workers and the local general public. Successfully exhibited the ability to supervise multiple subcontractors and project team members, uphold a good repertoire with the local communities, and confidently interact with lead agencies while performing project tasks to completion in a timely manner.
- For a Southern California school district, actively involved in all stages of Preliminary Environmental Assessments at numerous current and proposed school sites. The proposed school sites are typically comprised of residential, commercial, industrial facilities. The proposed school property acquirement falls under imminent domain. The personal interaction with all parties is a key to maintaining a productive work environment.
- Under the protocols of a local school district, performed profiling for soil stockpile removal generated during non-environmental and environmental investigation activities. Sampling and handling of the soils were performed to determine the potential for existing hazardous materials and classification of materials for proper disposal. Involved from start to finish with the budgeting, scheduling, sampling and analytical reporting of the projects.
- Within a local school district, performed door to door surveys of known and potential air pollutants as part of their screening process for newly proposed school sites.

### *Litigation Support Services*

- Creation and management of analytical database created from tens of thousands of sampling points during investigation and post-remediation sampling during third-party oversight of a local housing tract project within historic, large-scale oil reservoir footprints. Assisted with data input for 3D modeling and manipulation of modeling output. Performed remediation evaluation on a house-by-house scale. Provided regular findings with team to client for continued litigation preparations.
- Supervision and support of many fieldwork and data processing activities for the characterization of a large oil field. Project responsibilities included supervising and/or assisting with direct push and hollow-stem auger drilling rig crews and backhoe operators under the remote supervision of project managers. The aspects of this project included: characterization and definition of areas of concern; soil logging and sample collection; existing ground water monitoring well sampling; hydro-punch groundwater sampling; installation and sampling of new temporary groundwater monitoring wells; health and safety monitoring; communicating with the sub-contracted local laboratory; maintaining communications and positive relations with the client; and managing and ensuring limited effect to the property as a result of all sampling activities. In addition, performed GPS surveying of the project site, consisting of staking out area of concern boundaries and recording of sample locations. Once field work was completed, played a large role in organizing and processing data for litigation presentation and comparisons to other consulting firms' previous remediation attempts; researching precipitation data of the area; and compiling information associated with oil well production activities and aerial photographs; and participating in the Quality Assurance/Quality Control (QA/QC) processes, focusing on the comprehensive remediation cost summary report.
- Supervision of a team of direct company managers during a large-scale insurance litigation project involving over one hundred Areas of Concern at a local oil field. Working side-by-side with Waterstone's Managing Partner, assisted with deriving and implementing innovative techniques to determine cost allocations to be used in assessing historic remediation value to future site clean-up efforts during specific insurance policy periods.
- Supervision of asbestos abatement and disposal at a new commercial building construction site. The removal of the asbestos containing materials (ACM) was unique in that the transite pipe was incorporated with the soil fill material. Participated in the development of a Rule 1403 Procedure 5 for the implementation of the work plan methods to safely remove the ACM. In addition, other responsibilities at the site included mapping and photographing of suspect ACM locations, supervision of asbestos abatement, oversight of third-party CAC, drafting of site figures and tabulation of analytical data.
- With her involvement in acid sludge sampling at a former oil tank farm, was able to assist in creating a unique sampling and categorizing process for over 1,000

- sample locations. Designated specific characteristic trends based on size, texture and location of occurrence. Also responsible for performing GPS surveying of all sample locations in addition to representative sludge types and site boundary locations.
- At adjacent oil transfer facilities, played a key role in multi-media sampling, scheduling and supervising field crews, and organizing and presenting laboratory analytical data reports. Due to the nature of the case, the numerous parties involved, and the safety factors involving the chemicals of concern, the fieldwork portion of the project was continually videotaped for litigation party review and presentation in court. The sample and equipment handling were being viewed under high scrutiny and looked at with a fine-toothed comb. Ability to perform professionally and follow the sampling protocol accurately has increased Waterstone's reputation as being a leader in the field of environmental consulting.
  - Management and collaboration of a sampling team responsible for determination of native-fill boundary at a former lead recycling facility. A high-profile project, Ms. Jenkins interfaced daily with regulatory oversight agencies invested in the project, including AQMD and DTSC representatives. Sampling was conducted in a manner to maximize the reduction of airborne fugitive dust and hazardous waste generating from sampling activities. Work was conducted in City right-of-way during non-business hours to lessen the impact of commuter traffic in the highly industrial area.

#### *Former Oil Refinery Redevelopment*

- Lead project oversight of demolition and environmental clean-up of a former oil refinery and waste-water treatment facility. The project site was comprised of approximately 55 acres with thirty-seven above ground storage tanks containing waste product from historical facility practices. Me Jenkins chief responsibility was to oversight of shallow soil excavation and confirmation sampling, stockpile management, and implementation of an approved deep soil and groundwater remediation system installation comprised of a well field consisting of a 157 bioventing and air sparge wells. Additionally, asbestos abatement and oil production well abandonment oversight was conducted. Regularly communicated with lead agencies including the RWQCB, AQMD, and local Fire Department (CUPA). The property was closed in phases, requiring multiple closure request reports and Land Use Covenants to be provided.

#### *Federal Land Research*

- Involvement in an experimental research project that helped determine the effect of tidal influence on a man-made island within the confines of a wildlife refuge and Naval Weapons Station. This project falls under CERCLA and SARA federal laws as well as the US Navy's Base Realignment and Closure (BRAC) Act. The island, which hosts a small active oil production field, was sampled by multiple means to determine how much communication there was between swelling tides

and island fill soils. Consisted of the emplacement of data loggers in groundwater monitoring wells; hand augering for soil samples; determination of high and low tidal influence within and surrounding the island by interpretation of data results; and surveying well and sample locations. Monitoring wells were developed, and groundwater samples taken for analysis. Involvement in many phases of the project from field activities and data extraction through interpretation and presentation.

#### *Soil Vapor Survey*

- Well-versed and competent in performing soil vapor surveys in accordance with the *Interim Guidance for Active Soil Gas Investigation* (February 1997), the *DTSC/LARWQCB Advisory for Active Soil Gas Investigations* (January 2003 and July 2015) for soil vapor well installation and sampling. Completed numerous soil vapor surveys under these guidelines and has assisted clients in comprehending and executing the sampling and installation and sampling particulars. Attended the fall 2008 and spring 2009 Soil Vapor Intrusion Seminars hosted by the DTSC/LARWQCB to introduce and discuss the changes presented in revised versions of the advisory.

#### *Active Remediation*

- Actively involved in the remediation of a former gas station facility utilizing ozone injection. Played an active role in developing a comprehensive remediation plan for the treatment of soil and groundwater for all chemicals of concern for the site. Managed and oversaw the installation of ozone sparge wells in addition to the implementation and ongoing operation and maintenance of the ozone sparging unit.
- Design, installation, start-up and O&M of a deep soil bioventing and air sparging remediation system installed to remove volatile constituents remaining at depth at a former oil refinery and wastewater treatment facility. The wellfield consists of over 165 biovent and 25 air sparge wells. Instilled an active role in developing a comprehensive remediation plan for the system installation, coordination of well and system installation crews in conjunction with active site grading efforts in redevelopment. Managed and oversaw the installation of the remediation equipment within specialized compounds built onsite.

#### *Site Characterizations and Fieldwork Supervision*

- Completion of soil sampling at former oil refineries and steel facilities to define extent of subsurface impact. Responsibilities included supervision of a hollow-stem auger drill rig and direct push rig; health and safety monitoring, especially air monitoring; soil sampling and logging; and contracting with laboratory for sample analysis. The scope of work was designed to be as unobtrusive to daily goings on of the present business activities. Positive interaction and open communication were ongoing with Ms. Jenkins and the facility operators.

- To determine the extent of solvent leakage, performed soil and water sampling at many former and active dry-cleaning locations. Sampling methods have varied from soil vapor extraction, to ground water grab sampling, to direct push soil collection. Challenges included performing work without impeding in current daily business operations and restoration of site conditions. Prepares all appropriate pre-field contracts and has managed all laboratory and equipment needs.
- Complete site characterization of a gas station for a property transaction was conducted under direct supervision. A hollow stem auger was used for soil sample collection and groundwater sampling. Ms. Jenkins coordinated, scheduled and supervised subcontractors and kept in communication with onsite personnel. After marking locations, an underground utility survey was conducted to prepare for subsurface sample collection. She prepared samples and coordinated transportation to the contracted laboratory for appropriate analysis. She was also responsible for returning the sample locations to conditions like that prior to drilling.
- Assistance in organizing and performing the site characterization of a manufacturing building that historically involved the production of metal topped tables. She was actively involved with concrete coring at numerous indoor locations, shallow hand augering, assisting with the emplacement of tubing for soil vapor sampling, and purging and sampling wells around the perimeter of the facility. She has continued to work on this project by being involved in the quarterly groundwater monitoring activities.
- Assistance in preparation of a Storm Water Pollution Prevention Plans (SWPPP) for construction activities for remediation at a major petroleum company bulk terminal site and for impacted soil stockpile management at petroleum company oil field. Preparation of the plans involved a review of facility operations, the identification of potential pollution sources and non-storm water discharges, the development of storm water management controls, and the development of monitoring plans when needed.

#### *Environmental Oversight*

- Numerous project opportunities involving oversight to activities involved with a high vacuum dual phase extraction (HVPDE) system, being present during initial set-up, finally breakdown and various sampling stages during the process. It has been Ms. Jenkins's responsibility to periodically monitor the event by sounding and sampling wells to determine the extent and degree of impact.
- Completed a soil removal project on the grounds of a major oil company's business facility. This area is the site of historical oil wells and associated earthen sumps. Instructed excavation crews to properly segregate and stockpile materials

based on observed impact; sampled stockpiles under the supervision of county officials; directed the placement of backfill material; oversaw the soil screening process of highly impacted soils; took photos and drew sketches of continually changing site conditions; and maintained open channels of communication with clients, laboratory personnel and governing agencies. Throughout the project, maintained updated database of all analytical results, as well as documentation of soil quantities and types being removed and transported into the site.

### *Property Transactions*

- Involvement in the characterization and remediation of a steel and copper manufacturing facility for the purpose of ownership transition. Performed groundwater sampling and soil borings, including the completion of geologic boring logs, to help define the extent and types of contamination present. Oversight of the abandonment and installation of monitoring wells placed at the facility, in addition to vapor extraction and sparge wells for a soil vapor extraction unit being installed on site. Responsibilities included operation and management of the water and vapor extraction unit onsite. During the numerous phases of field activities, responsible for the scheduling and contracting of subcontractors to perform drilling and well installations, underground utility clearance, drop off soil bins and temporary water tanks, laboratory couriers, and the delivery of remediation equipment. Strength of professional relationships and open lines of communication with facility owners and operators has helped increase the trust and confidence the client has in Waterstone Environmental.

### *Agency Oversight Requirements*

- Properly submitting qualified information for all Waterstone projects that require electronic submittal of information for soil and groundwater of underground storage tank (UST) cases and non-UST cleanup programs, including Spills-Leaks-Investigations-Cleanups (SLIC) and Leaking Underground Storage Tank (LUST) sites, to GeoTracker, the California Regional Water Quality Control Board electronic database. Currently responsible for the submittal of all quarterly and interim groundwater monitoring analytical, depth to groundwater and site survey information required. As new projects are obtained, assembles the necessary site-specific information to register the site with the agency and obtain permission to upload information to the geographical information system database.
- Under supervision of the local Certified Unified Program Agency (CUPA), fulfilled the responsibility of maintaining an updated Emergency Contingency/Business Plan for a tote and drum recycling facility. Performed the required sampling activity to determine disposal profiles for numerous waste streams created by the recycling process.
- Involved with carrying out the responsibilities under the permitting of the Air Quality Management District (AQMD) Rule 1166 for air monitoring of Volatile



Organic Compounds at multiple large excavation sites in Los Angeles County. Responsible for applying for and implementing the permit. With the ability to keep organized and detailed notes, able to present all necessary field documentation to agency representatives that visit the field site. Written and submitted status reports and the necessary permit amendments as project situations change.

*Global Positioning Satellite Surveying*

- Multiple years of experience with the Trimble 5700 receiver and TSC1 hand controller to perform Global Positioning Satellite (GPS) surveying within a 2cm +/- accuracy. Certified in Trimble GPS and RTK, and expertise to plan projects, configure software, transfer and process data, export data in desired coordinate systems and formats, and generate plans and reports. Ability to stake out points, measure-in points, perform a continuous topography, and utilize Trimble Geomatics program for easy-to-read survey production. Has also created an easy step by step manual for in-house use on setting up a GPS base station.