TERENCE M. BOSTON

Education

BS – Marine Biology, California State University, Long Beach, 1976
MS – Environmental Engineering, University of Southern California, 1979

Specialty Certifications

OSHA 40-Hour Hazardous Waste Worker Training Certificate, 1990
OSHA 8-Hour Supervisors Training, 1990
OSHA 8-Hour HAZWOPER Refresher, 2015

Professional Affiliations

National Association of Environmental Professionals
Project Management Institute

Professional Experience

Mr. Boston has 35 years of broad-based experience in managing remedial design/remedial action projects, site remediation studies/implementation/construction, and regulatory compliance/permit assistance. Field and remedial action related responsibilities include CERCLA site management; soil and groundwater studies at sites impacted by metals, petroleum hydrocarbons, chlorinated organic compounds, and landfill gas (LFG); remedial design work, including preparation of work plans, sampling plans, design drawings, specifications, bid document preparation, and evaluation of subcontractor selection; construction management and construction quality plans, including field oversight and inspection activities; and report preparation. He has managed and prepared numerous permit applications in compliance with federal and state regulatory requirements, notably for RCRA treatment, storage, and disposal facilities.

Mr. Boston has managed site remediation projects related to landfill and site waste closure activities and subsurface LFG migration control, and field work and site evaluations and studies. His landfill-related project work is as follows:

Management of OM&M Activities, BKK Landfills. Since March 2006, Mr. Boston has conducted site management activities at the BKK Landfill Closed Class I Hazardous Waste and Class III Landfills in West Covina, CA, including client, staff, and regulatory agency (DTSC, SCAQMD, and the RWQCB) interaction to discuss ongoing field activities, scheduling, and staffing assignments; and subcontractor scopes of work. The following services have been or are being performed at the BKK Landfill for the client, the BKK Working Group (the Potential Responsible Parties [PRPs]), under several Consent Decrees:

- Operation, maintenance, and monitoring (OM&M) activities performed at the BKK Landfill, including:

  - Operate, monitor, and maintain the interior and perimeter LFG extraction (about 2,000 LFG wells) and conveyance systems for the Class I and Class III Landfills,

monitor the LFG perimeter probes, and operate and maintain the gas condensate collection and conveyance system.

- Operate, monitor, and maintain two LFG combustion stations (consisting of 10 flares) in conjunction with an on-site 6-megawatt steam turbine power plant operated by a separate operator that sells power to the public utility grid.
- Inspect, operate, and maintain the clay and vegetative cover and irrigation system.
- Monitor the ambient air system and integrated and instantaneous surface emissions activities to meet the provisions of the state and the Air Quality Management District plans.
- Inspect, operate, maintain, and monitor the Class I and Class III Landfills leachate extraction systems sumps, pumps, tanks, and conveyance lines.
- Inspect, operate, maintain, and monitor the permitted 100,000-gallon-per-day LTP conveyance piping and pumps and mechanical devices; monitor the effluent to verify permit compliance; and dispose of all hazardous waste generated by the LTP.
- Inspect, operate, and maintain a portion of the Class I Landfill groundwater extraction wells pumps, sumps, tanks, and lines.
- Maintain the site access roads and the storm drain collection and conveyance system.
- Provide a 24-hour security service and the inspection and repair of the perimeter fence.
- Collect and tabulate environmental control data for data packages sent to the site owner for agency reporting.

Closure and Post-Closure Maintenance Plans, Seven Class III CERCLA Landfills, Former Castle Air Force Base in Atwater, CA. Responsible for the development of the Closure and Post-Closure Maintenance Plans for the closure of seven Class III CERCLA Landfills at the former Castle Air Force Base in Atwater, CA. The Closure and Post-Closure Maintenance Plans were prepared for agency approval (USEPA, DTSC, RWQCB and CIWMB). Additional work included updating the Work Plan and Construction Quality Plan for landfill remedial action activity and preparation of design and specifications for the final cover and storm water collection systems for two landfill consolidation sites. As Field Technical Manager, activities included managing an oversight team during excavation, hauling and placement of waste materials by subcontractors, QC coordination for installation of final cover components (soil, geo-membrane and geotextile materials), segregation and profiling of hazardous waste encountered, conducting confirmation sampling at the clean closure site and excavation sites, and preparation of Draft and Final Closure Reports including responses to agency comments. The client was the Air Force Center for Environmental Excellence.

Project Engineer, Naval Air Station, North Island, Coronado, CA. Mr. Boston was Project Engineer responsible for preparation of a work plan and strategic plan to conduct a 3-year demonstration of innovative technologies for cleanup sites at Naval Air Station, North Island at Coronado, CA. This work was conducted under the Navy's Environmental Leadership Program (NELP). The strategic plan addresses technical and regulatory issues requiring development to ensure that technology demonstrations occur within the prescribed period required by the Navy. Successful demonstrations were to be targeted for use at other Navy facilities. The client was the U.S. Navy.

Deputy Project Manager, EIS Support Activities, Armstrong County, PA. Mr. Boston was Deputy Project Manager responsible for developing and managing various pre-design and Environmental Impact Statement (EIS) support activity documentation for a Stabilization-In-Place encapsulation design project at a low-level radiological waste disposal site (Parks Shallow Land Disposal Area) in Armstrong County, PA. Work included expanding details of an existing conceptual design as instructed by the client, developing a wide variety of documentation including technical approach documents, supporting study reports, and alternative evaluations (including Stabilization-On-Site and Disposal-Off-Site) that were submitted to the Nuclear Regulatory Commission and Pennsylvania Department of Environmental Protection for compliance review and use in developing the Draft EIS under NEPA. The client was ARCO. Following issuance of the Draft EIS, follow-on work included:

- Preparation of a revised alternatives analysis summary report and cost estimate to determine the preferred alternative

- Development of a detailed cost estimate that describes the approach for the Disposal Off-Site alternative.

Preparation of Alternatives for Procuring and Installing Activated Carbon Water Treatment System for the US Air Force. Responsible for preparing a Project Note outlining the various alternatives available to the Air Force for procuring and installing an activated carbon water treatment system. TCE contamination from Air Force activities had been found in the City of Atwater Municipal Well AM-18. The Air Force was required to accelerate installation and remediation if contaminant concentration were to exceed one-half the maximum contaminant level. Other activities included preparing a Remedial Action Work Plan that detailed the design, procurement, construction, startup and operation and maintenance (O&M) of a granular activated carbon system, preparing design plans and specifications showing the layout of the treatment system for the 2,000-gallon-per-minute potable water extraction well, including the carbon adsorption system, conveyance system between the well and treatment system, access road and temporary pad construction details and fencing, and preparing the Statement of Works for use in four subcontractor bid packages. The client was the Air Force Center of Environmental Excellence.

Preparation of RCRA Permit Application for Hanford Site, Richland, WA. Prepared a Full RCRA Permit Application (Part A and Part B application) for two mixed waste treatment and packaging units and an interim storage facility at the Hanford Site, Richland, WA. Approximately 1 million gallons of mixed waste (transuranic waste containing hazardous waste) in nine single-shelled storage tanks on-site are scheduled to be retrieved, treated and shipped off-

site to meet waste acceptance criteria at the Waste Isolation Pilot Plant (WIPP) in New Mexico. Work activities included: (1) development of the permit application (following Washington regulatory requirements) to describe the facilities, waste analysis approach, process approach for treatment and storage, and other permit required information; (2) managing a design team to prepare two interim storage facilities for the containerized waste; and (3) prepared a third-party independent engineering design review of the new tank systems for the Waste Retrieval System and the mixed waste treatment/packaging system to meet WA Administrative Code regulatory requirements. The client was CH2MHILL Hanford Group, Inc.

Preparation of Work Plan and Field Sampling Plan for Four Soil Vapor Extraction (SVE) Systems, Former Castle Air Force Base, Atwater, CA. Responsibilities included preparing the Work Plan and the Field Sampling Plan to install and operate four SVE systems at fuel sites on the former Castle Air Force Base, Atwater, CA. Work included preparing subcontractor Statement of Work for initial field testing, pilot testing, and electrical service to the SVE blower/treatment systems. Field responsibilities included construction oversight for placing the well conveyance laterals and manifold system and preparation of the O&M plan and engineering support during startup. The client was the US Air Force Real Property Agency.

Management and Engineering Activities, Operating Industries, Inc. (OII) Landfill Superfund Site, Monterey Park, CA. On the Operating Industries, Inc. Landfill Superfund Site in Monterey Park, CA, Mr. Boston provided site management and engineering activities under the First Consent Decree. Management activities include client, staff, and regulatory agency (USEPA, DTSC) interaction to discuss ongoing field activities, scheduling, staffing assignments, subcontractor support scopes of work, field staff oversight, reviewing subcontractor related deliverables, construction oversight including pre-job planning and meetings, field oversight during construction and final acceptance of work, and the preparation and updating of site work plans, safety plans and O&M plans. Site management activities included overseeing landfill gas collection system operation, monitoring, and maintenance, leachate control system operation and maintenance, leachate treatment system construction management and plant operation, and landfill cover maintenance activities. The client was CURE, Inc.