Site Investigation / Remediation Projects:

Client: Bank of America

Dr. Schwerdtfeger oversaw the development of a closure plan and closure cost estimate to decommission, decontaminate and dismantle the Golden West Refinery property as part of an acquisition strategy by the Bank of America. There were numerous tanks, process units and buildings on-site which required assessment.

Client: Atchison, Topeka and Santa Fe (ATSF) Railway

Dr. Schwerdtfeger served as the Project Chemist on the cleanup of lead in the Arroyo Seco Park in Los Angeles. Dr. Schwerdtfeger recommended sampling methods, evaluated the analytical data, performed correlation analyses and identified areas for excavation to the PM and client.

Client: County of Los Angeles, Metropolitan Transportation Authority (MTA)

Dr. Schwerdtfeger served as the Project Chemist on the Bus Rapid Transitway (BRT) construction project for MTA. This project required the evaluation of hundreds of analytical results for lead and arsenic along a 14-mile corridor being proposed as the new BRT. Dr. Schwerdtfeger identified hotspots requiring immediate excavation and negotiated with DTSC to establish cleanup goals under an aggressive deadline and to counteract adverse publicity about MTA in *The Los Angeles Times*.

Client: Grossmont Unified School District

Dr. Schwerdtfeger served as the project chemist to assist with a complicated soil gas issue with 1,3-butadiene on four school properties. She provided technical information to the project team about the analysis and detection of this chemical which is not normally found in soil or groundwater. She participated in discussions between the client, DTSC and the analytical laboratories to agree upon acceptable analytical methodologies and detection limits.

Client: Chevron Corporation

Dr. Schwerdtfeger served as PM for the Part B permit for the Chevron El Segundo landfarm post-closure project. She oversaw a team that prepared this enormous permit application in less than 90 days to meet a Correction Action Order issued by DTSC. Subsequently, this project required the evaluation of over 20 years of soil, groundwater and soil-pore liquid monitoring data to identify statistically significant evidence of a release (SSER) per Title 22 of the California Code of Regulations. Detailed plans were developed for monitoring of soil, groundwater and soil-pore liquid for the 30-year post-closure period, as well as construction of a parking lot to minimize migration of the soil contaminants.

Client: Air Force Plant 70

Dr. Schwerdtfeger evaluated the chemical and health hazards at AFP 70 in Sacramento from a demolition activity adjacent to a tank and piping that contained nitrogen tetroxide. This rocket fuel propellant had been used in a rocket test stand, which was undergoing demolition. The Air Force needed to vacate the site and remove all concrete and chemical contaminants from the soil. Dr. Schwerdtfeger worked with the construction crew and industrial hygiene staff to develop a mutually agreeable approach for demolition which protected workers from potential leaks of this chemical, which could have been imminently dangerous to health and safety.

Client: Hughes Aircraft Company

Dr. Schwerdtfeger served as the On-site Hazardous Waste (HW) Coordinator for the Hughes Torrance facility. Dr. Schwerdtfeger managed all aspects of the HW Yard and coordinated with various TSDFs for disposal. She updated the HW profile for each waste stream, prepared manifests, arranged for transportation and disposal, and arranged for payment of fees to California's Board of Equalization. Dr. Schwerdtfeger was able to bring the facility into compliance with federal and state requirements very quickly. The biggest challenge was disposing of cylinders to toxic gases which had been abandoned at the facility for several years due to the difficulty in finding suitable disposal locations.