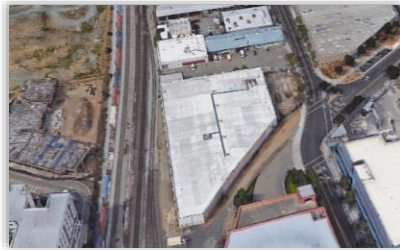


Cleanup for Reuse of Former Calculating Machine and Valve Manufacturing Facilities

Emeryville, CA



EKI is assisting the Successor Agency of the City of Emeryville Redevelopment Agency (Agency) with cleanup and planned redevelopment of an industrial property, totaling approximately 1.75 acres, under the Gatto Act. The site is currently owned by the Successor Agency and was the City of Emeryville's (City's) Public Works Department corporation yard between 1999 and 2012. Historical land uses at the FMW Site prior to the City's use as its corporation yard included a calculating machine manufacturing facility (1920s to the mid-1960s) and a valve manufacturing facility (mid-1960s to 1990s). The Department of Toxic Substances Control (DTSC) is providing regulatory oversight for environmental investigation and remediation of the site.

Groundwater, soil, soil vapor, and sub-slab vapor at the Site are primarily impacted by trichloroethene (TCE). Additional chemicals of concern include cadmium and petroleum hydrocarbons. Concentrations of TCE in groundwater are up to 100,000 times greater than drinking water standards and residual separate phase liquid (SPL) was observed. Drilling depths extended up to approximately 125 feet deep to investigate the extent of TCE impacts. Challenging drilling environment due to presence of building across majority of the site and presence of historical foundations in the subsurface. Real-time in-situ testing methods used to guide investigation locations and depths. EKI also conducted a treatability study to evaluate the feasibility of multi-phase extraction and ex-situ treatment options for extracted soil vapor and groundwater.

EKI prepared a remedial investigation (RI) report, human health risk assessment (HHRA) and treatability investigation report that formed the basis for preparation of a draft feasibility study and remedial action plan (FSRAP). The draft FSRAP evaluated potential remedial technologies such as excavation, multi-phase extraction, thermal remediation, and enhanced reductive dechlorination.

To assist in the Gatto process, EKI also prepared a Phase I environmental site assessment to support the Successor Agency's designation of a blighted area, within which the Site was determined to be a blighted property, and EKI has provided litigation support throughout.