

PHILLIPS 66 COMPANY LINE 200 RELEASE REMEDIATION AIR QUALITY, GREENHOUSE GAS EMISSIONS, AND HEALTH RISK ASSESSMENT REPORT

Project Date:
2015

Key Project Elements/Issues:

- Air Quality
- Greenhouse Gas Emissions
- Health Risk Assessment

Lead Agency:

San Francisco Regional Water
Quality Control Board
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Client Reference:

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RCH staff acted as senior air quality analysts for the Phillips 66 Company Line 200 Release Remediation project at the Concord Naval Weapons Station in Concord, CA. The project goal is remediation of the oil spill site to eliminate threats to the environment and human health and safety. The project includes demolition of a contaminated residence and excavation of contaminated soil and hauling the demolition debris and contaminated soil to the nearby Keller Canyon Landfill for disposal. The criteria pollutant emissions inventory for the project utilized CalEEMod, OFFROAD, and EMFAC emission models for demolition, onsite equipment, and soil/debris hauling. Average daily construction emissions and annual average construction emissions were determined for comparison to Bay Area Air Quality Management District (BAAQMD) thresholds and use in a health risk assessment for existing sensitive receptors. The HRA also included Kirker Pass Road using USEPA's AERMOD dispersion model. Mitigation measures to reduce impacts to less than significant included implementation of the BAAQMD's basic and enhanced exhaust emissions reduction measures for construction equipment.

