



California Regional Water Quality Control Board

Central Valley Region



Winston H. Hickox
Secretary for
Environmental
Protection

Robert Schneider, Chair

N60211_000576
CROWS LANDING
SSIC NO. 5090.3.A

Fresno Branch Office
Internet Address: <http://www.swrcb.ca.gov/~rwqcb5>
1685 E Street, Fresno, California 93706-2020
Phone (559) 445-5116 • FAX (559) 445-5910

10 September 2003

Ms. Lynn Marie Hornecker
Department of the Navy, Southwest Division
Naval Facilities Engineering Command
1220 Pacific Highway
San Diego, CA 92132-5190

18 JUNE 2003 SUMMARY REPORT, UNDERGROUND STORAGE TANK (UST) SITE CL-7, NASA CROWS LANDING FLIGHT FACILITY, CROWS LANDING, STANISLAUS COUNTY

We have reviewed your 18 June 2003 Summary Report, Underground Storage Tank (UST) Site CL-7 for the NASA Crows Landing Flight Facility near Crows Landing, Stanislaus County. UST CL-7 is a 210,000-gallon UST installed in 1952, taken out of service in 1965, and removed in 1994. Based on the results of various investigations, the report recommends that no further action be taken regarding UST Site CL-7. You have made this recommendation based on the following:

1. October 1990 Sampling Activities: Four borings (BH1, BH2, BH9, and BH10) were drilled to a maximum depth of 30 feet below grade surrounding the CL-7 UST; in addition, a monitoring well (MW4) was installed to a depth of 46 feet below grade. Soil samples and a groundwater sample were analyzed for total petroleum hydrocarbons (TPH) as jet fuel (JP-4 and JP-5), total petroleum hydrocarbons as diesel (TPH-D), and benzene, toluene, ethylbenzene, and xylenes (BTEX). All of these tested constituents in the soil and groundwater samples were reported nondetect.
2. October 1994 Tank Removal and Sampling Activities: UST CL-7 was removed in October 1994. The excavation of the UST extended to a depth of approximately 22 to 24 feet below grade. A total of six soil samples were collected, three from the side walls of the excavation and three from the floor of the excavation. The soil samples were analyzed for TPH-D and BTEX. All of the tested constituents in the soil samples were reported nondetect.
3. July 1995 Soil Sampling Activities: Four soil borings (SB2-10, SB2-14, SB2-15, and SB2-16) were advanced to a maximum depth of 37 feet below grade at locations near the former UST CL-7 site. The soil samples were analyzed for TPH-D and BTEX. With the exception of the 26-foot deep sample from boring SB2-10, all tested constituents were reported nondetect. TPH-D in the 26-foot deep sample was detected at a concentration of 29 milligrams per kilogram (mg/kg). In

California Environmental Protection Agency



addition, this detection was reported as unknown single peaks or patterns that did not resemble typical fuel patterns. TPH-D was reported as nondetect in the deeper samples (31 feet below grade and 36.5 feet below grade) collected from boring SB2-10.

4. Groundwater Sampling: Groundwater samples were collected from monitoring well MW4 in October 1990, June 1994, and September 1994. The groundwater samples collected during all three sampling events tested nondetect for total extractable petroleum hydrocarbons (TPH-E), total purgeable petroleum hydrocarbons (TPH-P), and benzene.

In June 2001, groundwater samples were collected from two Hydropunch® borings, CL2-HP-01 and CL2-HP-02. The groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G), TPH-J4, TPH-D, total petroleum hydrocarbons as motor oil (TPH-MO), BTEX, and methyl tertiary butyl ether (MTBE). Of these constituents, only TPH-MO was detected in Hydropunch® boring CL2-HP-01 at a concentration of 0.06 milligram per liter (mg/L). This detection was qualified as "an estimated quantity because the detected amount is less than the required detection limits, or because quality control criteria were not met."

You have recommended that no further action be taken in regard to UST CL-7 based on the low levels of residual petroleum hydrocarbons in soil and the absence of evidence of a significant petroleum hydrocarbon release to groundwater. We concur with this recommendation. Provided the information you have submitted to this agency was accurate and representative, no further action is needed in regard to UST Site CL-7. Please be advised that this letter does not relieve you of any liability under the California Water Code or Health and Safety Code for past, present, or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional, or previously unidentified conditions at the site that cause or threaten to cause degradation or nuisance or otherwise pose a threat to water quality or public health.

If you have any questions, please contact Greg Issinghoff at (559) 488-4390.



RUSSELL W. WALLS
Senior Engineer
RCE No. 43140

GJI:gji

cc: Mr. Mike Sonke, Stanislaus County Hazardous Materials Division, Department of
Environmental Resources, Modesto
Mr. Richard Jantz, Stanislaus County Chief Executive Office, Modesto
Mr. Don Chuck, NASA Ames Research Center, Moffett Field
Ms. Francesca D'Onofrio, California Department of Toxic Substance Control, Sacramento
Mr. Alan Barry, California Integrated Waste Management Board, Sacramento