



California Regional Water Quality Control Board

Central Valley Region

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PRELIMINARY DATA PACKAGE, TIME-CRITICAL REMOVAL ACTIONS AT 1,2-DCA SOURCE AREA, INSTALLATION RESTORATION PROGRAM SITE 17 – ADMINISTRATION AREA PLUME, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CROWS LANDING FLIGHT FACILITY, STANISLAUS COUNTY

We have reviewed the *Preliminary Data Package, Time-critical Removal Actions at 1,2-DCA Source Area, Installation Restoration Program (IRP) Site 17, Administration Area Plume, National Aeronautics and Space Administration (NASA) Crows Landing Flight Facility, Stanislaus County* (Report), dated 29 November 2001. The purpose of the Report is purely informational, to provide preliminary data for discussion. As such, there are little data interpretation and no recommendations. The Report provides the aquifer testing and groundwater analytical data collected from July 2001 through September 2001, at the Administration Area Plume (IRP Site 17) 1, 2-DCA Source Area. The Navy conducted monitoring well pump tests at four monitoring wells (117-MW-02S, 117-MW-03MS, 117-MW-10S, and 117-MW-10MS) to evaluate hydrogeologic parameters for the subsequent groundwater removal action. The pump tests showed that the hydraulic conductivity (K) of the aquifer around the 1, 2-DCA source area is consistent with the known lithology (clay to silty sand). K varied from 3.9×10^{-2} to 7.19×10^{-1} feet per day, with an average K of 2.08×10^{-1} feet per day (7.34×10^{-5} cm/sec).

General Comments:

1. The Report was submitted as loose pages. Please bind future reports.
2. The Report states that, during the pump tests, an airlift pump was used to collect groundwater samples for analysis of volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH). The Report adds that a centrifugal pump was used before and after the pump tests, to verify the airlift pump samples. The *Proposed Aquifer Testing Activities, Former Underground Storage Tank (UST) Site 117 Vicinity, National Aeronautics and Space Administration (NASA), Crows Landing Flight Facility, Stanislaus County (Proposal)*, received 4 June 2001, provides the procedures for the aquifer testing. The Proposal states that groundwater sampling will be conducted as specified in the work plan, titled *Soil Vapor Extraction Optimization for the Remediation of UST Cluster 1 and Site Verification Activities at Various Sites Work Plans, Revision 2, NASA Crows Landing Flight Facility, Stanislaus County*, received

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21 March 2001. The work plan references the Sampling and Analysis Plan (SAP) for specific field methods to be used for groundwater sampling during the aquifer test. The SAP states that a Grunfos™ submersible pump (or equivalent) will be used to collect groundwater samples during the aquifer testing. An airlift pump is not equivalent to a submersible (electric or air bladder) pump for VOC sampling. Air passing through the water column strips off VOCs, resulting in lower VOCs concentration levels. The groundwater sampling conducted with the airlift pump is not useful for determining VOC trends during the aquifer test. In the future, an appropriate (for VOCs) sampling pump should be used for groundwater sampling.

If you have any questions please contact me at (916) 255-3050 or bartonj@rb5s.swrcb.ca.gov.


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