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MCAS EL TORO
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FROM: D. K. Cowser, Project Manager

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MEETING MINUTES

Meeting Subject: One-day SVE pilot tests at Site 24 MCAS El Toro	**Meeting Date:** 07 January 1997 **Meeting Time:** 1300 **Meeting Place:** SWDIV, San Diego **Meeting Notes Prepared By:** Patrick Brooks

Attendees:

SWDIV	Bechtel	Other
Bernie Lindsey	Patrick. Brooks	Bill Sedlak, OHM
Andy Piszkin		Jay Neuhaus, OHM
Lynn Hornecker		Guijun Hu, OHM

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The meeting was opened by Bernie Lindsey. He stated that purpose of this meeting was to present the results of the one-day SVE pilot tests at Site 24 and agree on any changes to the format before a formal presentation to the BCT.

Jay Neuhaus described the objectives of the testing, which included supplementing information collected during the original pilot test by evaluating the SVE response in other areas where VOCs are known to be present. One-day SVE tests were conducted at all SVE wells at Site 24. During the one-day tests, the following data were collected:

- Influent air samples from the SVE wells were analyzed for VOCs at 15 minutes, 30 minutes, 60 minutes and 4 hours;
- Negative pressure applied to the SVE well and the corresponding air flow rate were recorded; and
- Remote pressure was recorded in nearby SVE wells to evaluate the radius of influence.

The 4-hour VOC concentration data and SVE flow rate was used to calculate the mass removal rate for VOCs that had elevated concentrations. The VOCs for which the mass removal rate was calculated are TCE, Freon 113, PCE, and 1,1-DCE. The highest mass removal rate for TCE was at 24SVE10 (31.4 pounds/day). This well also had high concentrations of Freon 113, which resulted in a mass removal rate of 137 pounds of Freon 113 per day. The total VOC removal was estimated to be approximately 190 pounds per day.

This brought up the question of whether the Freon 113 would cause a significant treatment problem during the extended pilot test scheduled for 24SVE 10. An action item for Pat Brooks was to calculate the mass of Freon 113 at Site 24 and find out the adsorption weight ratio of Freon 113 to carbon needed to treat the soil gas. It is approximately 20 to 30 percent, according to Westates Carbon. Depending on the mass of Freon 113 in the vadose zone, carbon treatment of the exhausted soil gas may not be the most economical. Pat gave himself the action item of

MEETING MINUTES (Continued)

finding out if Freon 113 was present in the soil gas stream at Norton Air Force Base. That system utilizes a 20,000-pound carbon filtration unit.

Guijun Hu described specific aspects of the pilot test evaluation. He explained that remote pressure measurements varied during the day even though the pressure applied to the SVE well remained constant. Several hypotheses were discussed. Guijun agreed to look at the daily barometric pressure logs that are compiled at the Station and report back with the results. A decrease in barometric pressure can cause remote pressure measurements to be positive. Guijun also agreed to modify the table that summarized the one-day test results to include the screened intervals of the SVE wells and list the results of discrete soil gas sampling, if available.

It was agreed that the one-day tests provided excellent information. These data will be used to assess the requirements for full-scale implementation of the MCAS El Toro SVE system. Bernie suggested that the team plan a field trip to see the Norton Air Force Base SVE system in the future.