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Subject: Meeting Summary, Technical Conference Call of 3 June 2002, Routine
Groundwater Monitoring Program, NASA Crows Landing Flight Facility

Hello All,

I have attached meeting documentation for the Navy - RWQCB technical conference call of 3 June 2002. The call was intended to provide the Navy with an opportunity to discuss RWQCB comments pertaining to the routine groundwater monitoring program. The attachments include a narrative summary and a list of specific wells that were discussed.

Please do not hesitate to contact me if you have questions pertaining to the meeting documentation.

Thank you very much.



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V/R
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6 June 2002

Meeting Summary
Technical Conference Call of 3 June 2002, 9:30 am - 11:30 am

Subject: Routine Groundwater Monitoring Program, NASA Crows Landing Flight Facility

Participants: Jim Barton (Regional Water Quality Control Board, Central Valley Region), Marianna Potacka (SWDIV), Lynn Hornecker (SWDIV), and Dave Kelly (Shaw Environment and Infrastructure))

This document will summarize the two major topics that were discussed during the conference call: 1) the rationale for the Navy's routine groundwater monitoring program and the recently announced changes to the program, and 2) the modification to the program to discontinue the routine monitoring of four (4) wells (17-MW-06(S); 17-MW-08(S); 17-MW-09(MS); and 17-MW-11(MS)).

Rationale for Changes to Quarterly Groundwater Monitoring
NASA Crows Landing Flight Facility

The Administration Area Plume (Installation Restoration Program (IRP) Site 17) includes groundwater impact from previous activities at IRP Site 17, UST 117, and UST Cluster 1. Current activities at the Administration Area Plume include discrete groundwater sampling and additional well installation to provide additional information to verify the extent of groundwater impact. A remedial action has not been developed or approved that defines long-term monitoring requirements. The goals of the current groundwater monitoring program are to 1) determine the extent of the plume and evaluate trends at the extents on a quarterly basis using new and existing wells, and 2) to verify the overall plume conditions on an annual basis. Long-term monitoring requirements for IRP Site 17 will be established as the Proposed Plan, Record of Decision, and Remedial Design documents are developed for the selected remedy.

Wells sampled on a quarterly basis represent, at a minimum, points located at the individual source areas and up-gradient, down-gradient, and cross-gradient of the Administration Area Plume to monitor plume migration. In general, discrete groundwater sampling is being conducted outside of the previously assumed plume boundary to further define extent of groundwater impact. As information about the current extent of impact is gathered, new wells are installed to monitor trends in plume migration. The new wells provide data at the current plume boundary that the previously monitored wells were not adequately providing. The previously monitored wells provide only data at intermediate points between the source area and the extent of the plume that is not required on a quarterly basis to monitor plume migration. Previously monitored wells 17-MW-06(S), 17-MW-08(S), 17-MW-09(MS), and 17-MW-11(MS) will be replaced in future quarterly sampling events by new monitoring wells 17-MW-31(S), 17-MW-28(S), 17-MW-29(MS), and 17-MW-27(MS), respectively, that better represent the current plume boundary. Additional wells may be added to the monitoring program as

the plume boundaries are further defined and new wells are installed. In addition, previously monitored wells may be removed from the program if it is determined that they no longer provide the data that was intended. Regulatory agencies will be involved in decisions to make future changes to the monitoring program before they are implemented.

On an annual basis (Winter Quarter) a majority of the wells in the administration area will be sampled to verify the overall condition of the plume. The wells sampled will include previous monitoring wells and new wells installed as part of other site activities. The data will be used in conjunction with historical data to evaluate plume stability and changes in concentrations of compounds of concern over time at various locations within the plume. Additional parameters will be monitored during the winter quarterly sampling event to allow for the evaluation of natural attenuation. Monitoring of natural attenuation parameters will only be conducted annually because it is assumed that minimal changes in general groundwater chemistry will occur over a relatively short time in a well established plume. The winter sampling event was chosen because it would provide the largest data set for evaluation of natural attenuation.

Groundwater samples collected as part of the current groundwater monitoring program will no longer be analyzed for metals. Analysis for metals was conducted for five quarters from fall 2000 through fall 2001 to verify previous results for samples collected during approximately 1995 through 1998 for the remedial investigations of various sites. Recent sampling and analysis confirms previous results that indicate that there are no trends in the data that define a source of metals impact to groundwater from established sites, and the metals concentrations detected are within accepted background ranges established in the Remedial Investigation. This groundwater program may be modified in the future, or another program may be established, to include monitoring for metals at selected sites.

Attachment

List of Wells to be Removed from the Routine Groundwater Monitoring Program

**List of Wells to be Removed from the Routine Groundwater Monitoring Program for the Administration Area Plume
NASA Crows Landing Flight Facility
(effective during August 2002 Sampling Round)**

Well Identifier	Screened Interval (Feet Below Ground Surface (bgs))	Description of Change to Routine Monitoring Program
17-MW-06(S)	49 - 74	<p>The Navy originally proposed to remove well 17-MW-06(S) from the routine groundwater monitoring program on 2 May 2002. Due to Regional Water Quality Control Board, Central Valley Region comments, the Navy conducted sampling activities at 17-MW-06(S) during the May 2002 sampling event.</p> <p>17-MW-06(S) is a shallow well located near the western edge of Site 17, and low levels of carbon tetrachloride (less than 10 micrograms per liter) have been detected in samples from this well.</p> <p>As a result of discussions between the Navy and the RWQCB on 3 June 2002, it was agreed that well 17-MW-06(S) will be replaced by the recently constructed well 17-MW-31(S) during the August 2002 sampling round. Well 17-MW-31(S) is located west of 17-MW-06(S) near 17-HP-10. 17-MW-31(S) is screened from 49 to 74 feet bgs.</p>
17-MW-08(S)	50 - 75	<p>The Navy originally proposed to remove well 17-MW-08(S) from the routine groundwater monitoring program on 2 May 2002. Due to Regional Water Quality Control Board, Central Valley Region comments, the Navy conducted sampling activities at 17-MW-08(S) during the May 2002 sampling event.</p> <p>17-MW-08(S) is a shallow well located near the northern edge of Site 17, and low levels of carbon tetrachloride (less than 10 micrograms per liter) have been detected in samples from this well.</p> <p>As a result of discussions between the Navy and the RWQCB on 3 June 2002, it was agreed that well 17-MW-08(S) will be replaced by the recently constructed well 17-MW-28(S) which is located north of 17-MW-08(S) near 17-HP-03. 17-MW-28(S) is screened from 49.5 to 74.5 feet bgs.</p>
17-MW-09(MS)	104 - 114	<p>The Navy originally proposed to remove well 17-MW-09(MS) from the routine groundwater monitoring program on 2 May 2002. Due to Regional Water Quality Control Board, Central Valley Region comments, the Navy conducted sampling activities at 17-MW-09(MS) during the May 2002 sampling event.</p> <p>17-MW-09(MS) is a mid-shallow well located near the northern edge of Site 17, and low levels of carbon tetrachloride (less than 10 micrograms per liter) have been detected in samples from this well.</p> <p>As a result of discussions between the Navy and the RWQCB on 3 June 2002, it was agreed that well 17-MW-09(MS) will be replaced by the recently constructed well 17-MW-29(MS) which is located north of 17-MW-09(MS) near 17-HP-04. 17-MW-29(MS) is screened from 104.5 to 114.5 feet bgs.</p>
17-MW-11(MS)	100 - 110	<p>The Navy originally proposed to remove well 17-MW-11(MS) from the routine groundwater monitoring program on 2 May 2002. Due to Regional Water Quality Control Board, Central Valley Region comments, the Navy conducted sampling activities at 17-MW-11(MS) during the May 2002 sampling event.</p> <p>17-MW-11(MS) is a mid-shallow well located near the northeastern edge of Site 17, and low levels of carbon tetrachloride (less than 10 micrograms per liter) have been detected in samples from this well.</p> <p>As a result of discussions between the Navy and the RWQCB on 3 June 2002, it was agreed that well 17-MW-11(MS) will be replaced by the recently constructed well 17-MW-27(MS) which is located north of 17-MW-11(MS) between 17-HP-02 and 17-HP-09. 17-MW-27(MS) is screened from 95 to 110 feet bgs.</p>

Transmittal

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