

Transmittal

Date: 22 November 2002

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Subj: Status Report for Various Environmental Restoration Program Projects
National Aeronautics and Space Administration (NASA)
Crows Landing Flight Facility

The purpose of this status report is to provide an update on work in progress.

Underground Storage Tank (UST) Program

UST Cluster 1 – Tanks CL-1, CL-2, and CL-3

UST Cluster 1 is located adjacent to Installation Restoration Program (IRP) Site 17 (Site 17) – the Demolished Hangar Area. Fifty-seven (57) individual vapor extraction wells were tested during the period from August 2000 through January 2001, optimization activities were conducted from January 2001 through summer 2002, and vapor samples were collected from selected individual vapor extraction wells in August 2002. Evaluation of data is in progress.

UST Cluster 2, UST 109, UST 117, and UST CL-40

Data is in the process of being evaluated and compiled for closure documentation for the UST sites. The Navy submitted responses to RWQCB comments on the UST Cluster 2 data package on 4 October 2002, samples were collected the week of 21 October 2002, and preliminary laboratory results were received in November 2002. The Navy plans to schedule a conference call with the RWQCB soon to discuss the results and possible closure strategies.

Installation Restoration Program

Site 11 – Former Disposal Pits Area

The Navy continued to work on responses to regulatory review comments on the Site 11 feasibility study report.

Site 11A - Current and Former Sewer Systems

The Navy conducted geophysical surveys and exploratory trenching activities at the original sewage treatment plant. The Navy is preparing to implement a time-critical removal action to remove waste from the oxidation pond area of the original (former) sewer system, and field activities are tentatively scheduled to begin in December 2002. A public notice announcing the availability of the administrative record for the removal actions at the oxidation pond area was issued in the newspapers, The Modesto Bee and The Patterson Irrigator, on 31 October 2002. No comments have been received as of 22 November 2002.

Site 17 – Demolished Hangar Area and Administration Area Plume

The Navy is in the process of developing a conceptual site model of the Plume. An overview of the model was presented prior to the 20 November 2002 BCT meeting.

The Navy submitted plans to the team members in late October 2002 for the construction piezometers and another groundwater extraction well near Bell Road in the vicinity of wells 17-MW-25(S) and 17-MW-25(MS). The field activities are planned to begin in late November 2002.

Groundwater extraction continued in the vicinity of the former dry well at UST Cluster 1 and near former UST Site 117. Selected VOC concentrations from samples collected on 31 October 2002 from wells CL1-MW-12(S) and 117-MW-03 are presented in the following tables.

**Selected VOC Concentrations at Well CL1-MW-12(S)
 PRELIMINARY DATA FOR SAMPLES COLLECTED 31 OCTOBER 2002**

| Chemical | Concentration (micrograms per liter) |
|------------------------------|--------------------------------------|
| Gasoline | 38,000 |
| Benzene | 8,450 |
| Acetone | 4,200 |
| Isopropylbenzene (cumene) | 1,770 |
| Toluene | 820 |
| 2-butanone (MEK) | 420 "J" |
| 1,2-dibromoethane (EDB) | 230 |
| 1,2-dichloroethane (1,2-DCA) | 190 |
| 2-hexanone | 180 "J" |
| Xylene | 100 |
| Ethylbenzene | 80 |

**Selected VOC Concentrations at Well 117-MW-03(MS)
 PRELIMINARY DATA FOR SAMPLES COLLECTED 31 OCTOBER 2002**

| Chemical | Concentration (micrograms per liter) |
|----------------------|--------------------------------------|
| Gasoline | 40 "J" |
| Benzene | 21.0 |
| Carbon tetrachloride | 10.2 |
| Chloroform | 9.7 |
| 1,2-DCA | Not detected at or above 0.5 |

The Navy is in the process of re-evaluating remedial alternatives and revising the feasibility study for IRP Site 17.

Other Projects

Community Relations Program

The Navy continued to maintain the information repository at the library in Patterson.

Basewide Groundwater Sampling

Groundwater information is being compiled for the next annual groundwater report. Routine groundwater sampling activities for the 9th quarterly event were conducted from 12 through 14 November 2002.

Closure of the abandoned water supply well located inside of Building 151 (south of the Administration Area Plume) was substantially completed in November 2002. The well was more than 400 feet deep. A representative from Stanislaus County was present to observe some of the closure activities.

Abandoned water supply well 6S/8E-9M1 was surveyed by video camera on 5 September 2002. The well is more than 500 feet deep. Copies of the video survey and laboratory analyses of water samples from the well were provided to Stanislaus County and the RWQCB. Coliform

was detected in water samples. Stanislaus County will review the well survey information and laboratory data, and they will determine whether or not the well should be destroyed.

Environmental Business Plan Update

The Navy is in the process of compiling information for the next update.

Water Level Monitoring

Automated water level indicators continue to record water levels at several locations. The 2002 irrigation season began in late March 2002 and ended in August 2002. Water level data will be presented in groundwater monitoring reports. The information pertaining to pumping of irrigation wells is summarized in the following table.

Pumping Activities at Irrigation Water Supply Wells and Other Wells
 NASA Crows Landing Flight Facility - Updated November 2002

| Field 10 Well 6S/8E-20(NALF)-south of runway [flow: approximately 2,500 gpm] Nearby water level indicator at BGMW01 Screened from approximately 122 to 250 feet below ground surface. Date(s) of Pumping | Field 8 Well 6S/8E-20C1 Central section of facility near Little Salado Creek [flow: approximately 1,200 gpm] Nearest water level indicator at BGMW01 Perforated intervals from approximately 144 to 600 feet below ground surface. Date(s) of Pumping | Field 3 Well 6S/8E-8 (NEW) Northern section of facility, west of UST Cluster 2 [flow: approximately 1,500 gpm] Nearby water level indicator at Cluster 2 Perforated intervals from approximately 200 to 595 feet below ground surface. Pump is located at approximately 280 feet bgs. Date(s) of Pumping | NASA Water Supply Well (near Building 151) Within approximately 500 feet of the southern section of the Administration Area Plume Screened from 210 to 235 feet bgs No data on pumping activities |
|--|--|---|---|
| <i>Calendar Year 2001</i> | | | |
| 13-15 April 2001; 26-29 April 2001 26-29 May 2001 | | | |
| 8-10 June 2001; 14 -16 June 2001; 20-22 June 2001 | | 14-20 June 2001 | |
| 3-7 July 2001; 13-18 July 2001; 26-29 July 2001 | 6-11 July 2001; 19-24 July 2001 | 4-9 July 2001; 13 - 20 July 2001; 22 - 31 July 2001 | |
| | 30 July - 3 August 2001 | | |
| | 15-18 August 2001; 25 - 28 August 2001 | 3-10 August 2001; 15 - 20 August 2001; 23 - 31 August 2001 | |
| | | 4 - 14 September 2001; 17 - 22 September 2001 | |
| Total of 35 days of pumping in the year 2001 (with 15 days of pumping in July 2001). | Total of 25 days of pumping in the year 2001 (with 14 days of pumping in July 2001). | Total of 73 days of pumping in the year 2001 (with 24 days of pumping in July 2001). | |
| <i>Calendar Year 2002</i> | | | |
| January -February 2002 - no use | January -February 2002 - no use | January -March 2002 - no use | |
| 27-30 March 2002 | March 2002 - no use | | |
| 1-4 April 2002 6-8 April 2002 11-14 April 2002 19-21 April 2002 23-26 April 2002 | April 2002 - no use | 4 - 6 April 2002 18 - 20 April 2002 | |
| 25-31 May 2002 | May 2002 - no use | 15-20 May 2002 | |
| 1 - 3 June 2002 13 - 19 June 2002 29 - 30 June 2002 | 5-7 June 2002 10-12 June 2002 26-30 June 2002 | 1-6 June 2002 | |
| 8 - 10 July 2002 18 - 20 July 2002 | 11-14 July 2002 25 - 28 July 2002 | 5 - 10 July 2002 12 - 17 July 2002 | |
| August 2002 - no use | 3-8 August 2002 14-17 August 2002 | 6 - 8 August 2002 12 - 15 August 2002 | |
| September - October 2002 - no use | September -October 2002 - no use | September -October 2002 - no use | |

Meetings

BCT Meetings during 2002

| Date of Meeting | Comments |
|------------------------|---|
| 31 January 2002 | Conference call |
| 27 March 2002 | Meeting in Sacramento |
| 29 May 2002 | Conference call |
| 3 June 2002 | Technical conference call - routine groundwater monitoring program. |
| 26 June 2002 | Site visit and technical briefings at Crows Landing |
| 31 July 2002 | BCT Conference Call |
| 25 September 2002 | BCT Conference Call Draft Meeting Summary Issued 15 October 2002. |
| 3 October 2002 | UST Cluster 2 conference call (Subject: Review of RWQCB comments dated 18 September 2002) |
| 9 October 2002 | OE conference call (Subject: Review of DTSC comments dated June and July 2002 (Site 11 FS)) |
| 20 November 2002 | Technical presentation, BCT Meeting, and site visit (in Patterson and at the Crows Landing facility) Technical conference call for UST Cluster 2 to be scheduled in late November or early December Next BCT meeting is planned for 29 January 2003 |
| | |

NOTE: PLEASE NOTIFY MARIANNA POTACKA 7 DAYS IN ADVANCE OF THE NEXT MEETING IF CHANGES TO THE AGENDA ARE PROPOSED.

Significant Regulatory Submittal Overview

| Document | Date Submitted by Navy to BCT | Notes pertaining to the submittal of regulatory review comments |
|---|--------------------------------------|---|
| Draft Work Plans, Revision 2 | 19 March 2001 | RWQCB: comments dated 3 April 2001 DTSC: no comments received |
| Revised Site 17 Feasibility Study | 27 June 2001 | RWQCB: comments dated 27 September 2001 DTSC: no comments received |
| Action Memorandum, Time-Critical Removal Actions, 1,2-DCA and Carbon Tetrachloride Source Areas | 16 August 2001 | RWQCB: comments dated 24 September 2001. DTSC: no comments received |
| Project Plans, In Situ Treatment, 1,2-DCA Source Area | 30 October 2001 | RWQCB: comments dated November 2001 DTSC: no comments received |
| Draft Final Feasibility Study, IRP Site 11 (Disposal Pits) | 16 November 2001 | RWQCB: comments dated 17 January 2002 IWMB: comments dated 28 January 2002 DTSC: comments dated 13 June 2002 and 16 July 2002 |
| Draft Environmental Business Plan update | 15 December 2001 | RWQCB: comments dated 27 December 2001 DTSC: no comments received |
| Annual Basewide Groundwater Report | 18 April 2002 | RWQCB: comments dated 6 May 2002 |
| Sixth Quarterly GW Report, February 2002 Sampling Activities | 28 June 2002 | RWQCB: comments received 25 July 2002 |
| Interim data summary, IRP Site 11A with planned trenching locations | 12 July 2002 | RWQCB: Comments received and discussed during Navy/RWQCB conference call |
| Interim data summary, UST Cluster 2 | 25 July 2002 | Comments requested by 15 August 2002. RWQCB: Comments dated 18 September 2002. |
| Seventh Quarterly GW Report, May 2002 Sampling Activities | 12 September 2002 | RWQCB: Comments dated 4 November 2002 |
| Interim data summary, Former Oxidation Basins Exploratory Trenching Results, Site 11A | 27 September 2002 | |
| Action Memorandum, Oxidation Pond Area | 28 October 2002 | |
| Information package, groundwater conditions along Bell Road | 29 October 2002 | |
| Planning documents for time-critical removal actions at Oxidation Pond Area | 18 November 2002 | |
| Eighth Quarterly GW Report, August 2002 Sampling Activities | 21 November 2002 | |

Planned Submittals – November 2002 through January 2003

| Document | Planned Submittal Date | Comments |
|--|--|----------|
| Annual Basewide Groundwater Report | late November 2002/early December 2002 | |
| Summary Report, Time-Critical Removal Actions, UST Site 117 Vicinity | December 2002/January 2003 | |
| DRAFT Environmental Business Plan update (with schedule) | December 2002/January 2003 | |
| Quarterly Groundwater Report, 9 th quarterly event | February 2003 | |

Requests to NASA for Information

| Item | Approximate Date(s) or Schedule for Completion |
|---|--|
| Request for Facility Drawings | Telephone request for information in August 2001. Formal written request for information on 14 January 2002. Completion date: unknown |
| Request for siting and aquifer testing information on the NASA Water Supply Well that is located within 400 feet of Administration Area Plume | Discussed as a requirement for the groundwater conceptual model during November 2001 BCT meeting in Sacramento. Formal written request for information on 14 January 2002. Completion date for aquifer test: unknown |
| Navy Review Comments dated 31 May 2002 on Environmental Baseline Survey Update (NASA March 2002) | Completion date for response to Navy comments: unknown |

Attachment:

- Proposed Agenda Items for 29 January 2003 BCT Meeting

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File: CLNOVEMBER2002STATUSRPT.DOC

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SWDIV/EFA-W team members
Project File (Crows Landing)

Attachment

Proposed Agenda

**NASA Crows Landing Flight Facility
Navy Environmental Restoration Program**

Project Managers' Meeting or Conference Call

29 January 2003, 10:30 A.M.

- 1. Navy Update**
- 2. Regional Water Quality Control Board Update**
- 3. Department of Toxic Substances Control Update**
- 4. Integrated Waste Management Board Update**
- 5. National Aeronautics and Space Administration (NASA) Update**
- 6. Stanislaus County Update**
- 7. GSA Update**
- 8. Tentatively Schedule next Meeting Date and Adjourn**

Transmittal

Date: 22 Nov 2002

From: Lynn Marie Hornecker *LMAH*
Code 06CC.LMH

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Code ~~01LS.DS~~ 05G.DS
Administrative Record Manager

Subj: **CERCLA ADMINISTRATIVE RECORD MATERIALS**
NALF Crows Landing

Installation: NALF Crows Landing

UIC Number: N60211

Document Title: November 2002 status report

Author: Lynn Marie Hornecker

Recipient: BCT members to others

Record Date: 22 November 2002

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