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Transmittal

Date: 20 December 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 and optimization activities were conducted from January 2001 through summer 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 maximum total petroleum hydrocarbon (TPH-extractable) concentration at tank site CL-7 at UST Cluster 2 is 29 milligrams per kilogram and the Navy is considering preparing a request to close this site separately; the request for closure of the other two tank sites at UST Cluster 2 (CL-8 and CL-9) would be provided in a separate document following the completion of corrective actions.

Installation Restoration Program

Site 11 – Former Disposal Pits Area

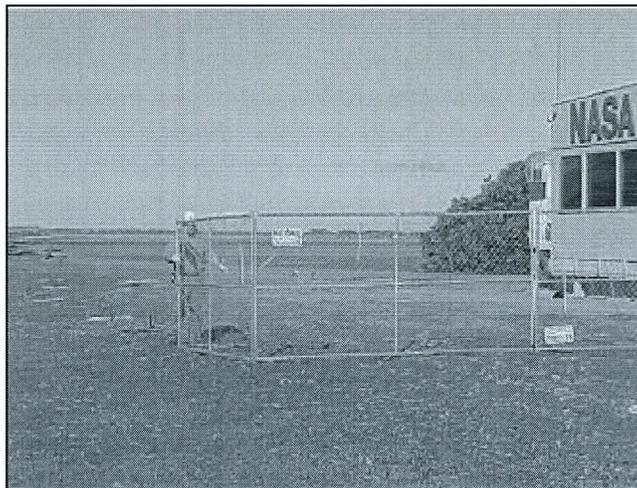
The Navy continued to work on responses to regulatory review comments on the Site 11 feasibility study report.

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 implementing a time-critical removal action to remove waste from the oxidation pond area of the original (former) sewer system, and field activities began in early 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.

Photographs showing surveying for fence alignment at excavation area 2 (southernmost oxidation pond) and construction of security fencing at excavation area 3 (near NASA compound) during the week of 16 December 2002 at the oxidation pond area of Site 11A follow:

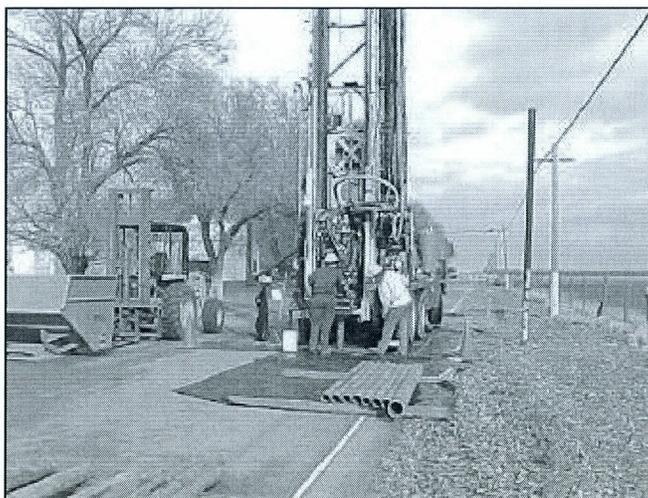




The Navy has not received significant regulatory comments on the Action Memorandum or the detailed planning documents for the removal actions as of 20 December 2002.

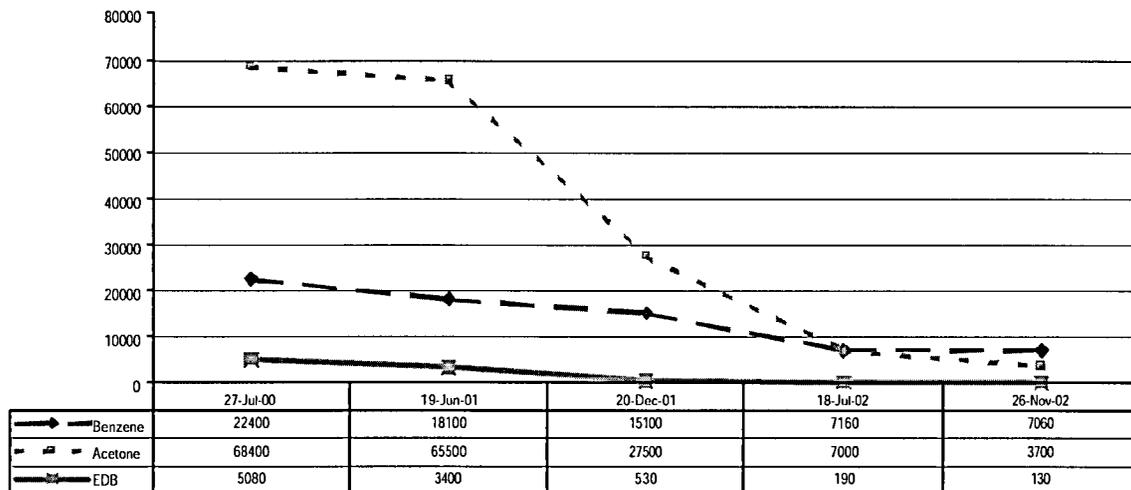
Site 17 – Demolished Hangar Area and Administration Area Plume

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 RWQCB concurred with the planned field activities in their letter dated 21 November 2002. Construction of piezometers began the week of 9 December 2002. A photograph dated early December 2002 of the drilling rig at a piezometer location along Bell Road follows.



Groundwater extraction continued in the vicinity of the former dry well at UST Cluster 1 and near former UST Site 117. Selected VOC concentrations for samples collected from well CL1-MW-12(S) are shown on the following chart.

**Selected VOC Concentrations at Well CL1-MW-12(S) Near Former Dry Well
 PRELIMINARY DATA (as of late November 2002)**



The Navy is in the process of evaluating iSOC technology for a possible demonstration project or pilot study at the Administration Area Plume and revising the feasibility study for IRP Site 17.

The Navy is in the process of preparing responses to RWQCB comments pertaining to the 7th quarterly groundwater monitoring report.

Other Projects

Community Relations Program

The Navy issued a fact sheet with an update on environmental restoration program projects in early December 2002.

The Navy published a notice in the newspapers - The Modesto Bee and The Patterson Irrigator - on 31 October 2002. As of 20 December 2002, the Navy has not received comments or questions from the public pertaining to the time-critical removal actions at Site 11A during the period from 31 October 2002 through 5 December 2002.

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

Basewide Groundwater Sampling

Groundwater information from the 9th quarterly event (12 through 14 November 2002) are being evaluated and compiled.

Closure of the abandoned water supply well located inside of Building 151 (south of the Administration Area Plume) was substantially completed in November 2002. A representative from Stanislaus County was present to observe some of the closure activities and to inspect the site in December 2002 following the completion 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 (EBP) Update

The Navy transmitted the draft EBP to team members in mid-December 2002.

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 December 2002**

<p align="center">Field 10 Well 6S/8E-20(NALF)-south of runway <i>[flow: approximately 2,500 gpm]</i> Nearby water level indicator at BGMW01 <i>Screened from approximately 122 to 250 feet below ground surface.</i> Date(s) of Pumping</p>	<p align="center">Field 8 Well 6S/8E-20C1 Central section of facility near Little Salado Creek <i>[flow: approximately 1,200 gpm]</i> Nearest water level indicator at BGMW01 <i>Perforated intervals from approximately 144 to 600 feet below ground surface.</i> Date(s) of Pumping</p>	<p align="center">Field 3 Well 6S/8E-8 (NEW) Northern section of facility, west of UST Cluster 2 <i>[flow: approximately 1,500 gpm]</i> Nearby water level indicator at Cluster 2 <i>Perforated intervals from approximately 200 to 595 feet below ground surface. Pump is located at approximately 280 feet bgs.</i> Date(s) of Pumping</p>	<p align="center">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</p>
<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 - November 2002 - no use	September - November 2002 - no use	September - November 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
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) Final meeting summary issued on 20 December 2002.
9 December 2002	Technical conference call (Subject: UST Cluster 2) Final meeting summary issued on 12 December 2002 following incorporation of RWQCB comments.
29 January 2003	Planned BCT Meeting

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
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 (Site 11A)	28 October 2002	RWQCB: Comments dated 21 November 2002
Information package, groundwater conditions along Bell Road	28 October 2002	RWQCB: Comments dated 21 November 2002
Planning documents for time-critical removal actions at Oxidation Pond Area (Site 11A)	18 November 2002	
Eighth Quarterly GW Report, August 2002 Sampling Activities	21 November 2002	
Draft Environmental Business Plan	12 December 2002	Comments requested by 15 January 2003

Planned Submittals – December 2002 through March 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	January/February 2003	
Quarterly Groundwater Report, 9 th quarterly event	March 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

CF:

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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: 20 Dec 2002

From: Lynn Marie Hornecker
Code 06CC.LMH

To: Diane Silva
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: December 2002 Status Report

Author: Lynn

Recipient: BCT

Record Date: 20 Dec 2002

Approximate Number of Pages: 11

Sites: Sites 11, 11A, 17 + UST sites

Key Words: ~~ATF~~ status report

Contract: N/A

CTO Number: N/A