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Transmittal

Date: 22 April 2003

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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 a brief update on work in progress.

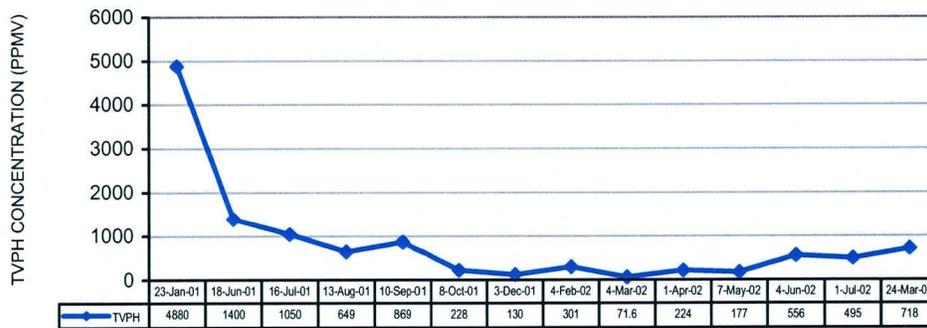
Underground Storage Tank (UST) Program

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

UST Cluster 1 overlies the Administration Area Plume. Fifty-seven (57) individual vapor extraction wells were tested during the period from August 2000 through January 2001. Optimization activities were conducted with portable Soil Vapor Extraction (SVE) treatment units from January 2001 through summer 2002, and total volatile petroleum hydrocarbon (TVPH) concentrations were significantly reduced. During the summer 2002 sampling event, TVPH concentrations exceeded 2,500 parts per million by volume (ppmv) in one vapor extraction well near the former dry well. SVE treatment was suspended for approximately 6 months from September 2002 until March 2003. Treatment began again in late March 2003 and

preliminary laboratory information is shown on the following chart; a photograph of the SVE unit in operation is also shown. An influent vapor sample was collected on 24 March 2003 with the following results: total volatile petroleum hydrocarbons (TVPH) detected at 718 parts per million by volume (PPMV); toluene detected at approximately 3 PPMV; no other volatile organic compounds were detected at or above laboratory detection limits.

Chart 1. Selected Total Volatile Petroleum Hydrocarbon (TVPH) Concentrations at UST Cluster 1
Selected Influent Concentrations from a Group of Vapor Extraction Wells
 (Preliminary Data Available As Of April 2003)



Photograph 1. Portable Soil Vapor Extraction (SVE) Treatment Unit at UST Cluster 1
 Date of Photograph: 22 April 2003



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.

Installation Restoration Program

Site 11 – Former Disposal Pits Area

An Engineering Evaluation/Cost Analysis (EE/CA) for a non-time critical removal action to remove the buried waste and ordnance materials from Site 11 is in the process of being prepared.

Site 11A - Current and Former Sewer Systems

Excavation and removal of buried waste and debris at the former oxidation pond area at Site 11A has been completed and data is being compiled for a summary report. A public notice announcing the completion of the excavation activities was published in the newspapers - The Modesto Bee and The Patterson Irrigator - on 3 April 2003.

Site 17 – Demolished Hangar Area and Administration Area Plume

Groundwater extraction continued in the vicinity of the former dry well at UST Cluster 1 and at 117-EX-03 in early April 2003. More than one pound per week of contaminant mass continues to be removed from the groundwater extraction well near the former dry well at UST Cluster 1. The Navy is evaluating the information from the pumping test and subsequent groundwater sampling activities at well 117-EX-03. The Navy may discontinue the groundwater extraction activities at well 117-EX-03 while the plans for the in-situ treatment demonstration project are developed.

Other Projects

Community Relations Program

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

Basewide Groundwater Sampling

Groundwater data from the 10th event is being compiled for a quarterly monitoring report.

Clearance Surveys

The Navy is evaluating historical records and preparing for clearance surveys for potential ordnance items at Site 18 (Live Ammunition Area and Target Berm). The Navy is preparing to construct fences around both areas of Site 18.

Water Level Monitoring

Automated water level indicators continue to record water levels at several locations. 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 April 2003**

<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 - December 2002 - no use	September - December 2002 - no use	September - December 2002 - no use	
Total of 47 days of pumping in 2002 (with 6 days in July 2002)	Total of 30 days of pumping in 2002 (with 9 days in July 2002)	Total of 37 days of pumping in 2002 (with 12 days in July 2002)	
<i>Calendar Year 2003</i>			
January - March 2003 No Use	January - March 2003 No Use	January - March 2003 No Use	

Meetings

BCT Meetings/Conference Calls during 2003

Date of Meeting	Comments
29 January 2003	Conference call Final meeting notes submitted 20 February 2003.
10 April 2003	Conference call Draft meeting notes issued 15 April 2003.
May/June 2003	To be scheduled
<i>Site Visits</i>	
19 February 2003	Navy/RWQCB Site Visit

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
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 Stanislaus County: Comments dated 14 January 2003 DTSC, RWQCB, and NASA reviewed the plan and do not have comments.
Annual Basewide Groundwater Report	30 December 2002	
Summary Report, Time-Critical Removal Actions, UST Site 117 Vicinity	7 February 2003	
Final Meeting Notes for 29 January 2003 BCT meeting	20 February 2003	
Environmental Business Plan update (final)	3 March 2003	
Ninth Quarterly GW Report, November 2002 Sampling Activities	7 March 2003	
Updated Project Plans	7 March 2003	
Groundwater Gradient Transmittal	13 March 2003	
Bell Road information package	20 March 2003	
Geophysical Survey Report	7 April 2003	
Pumping Test Information Package (117-EX-03)	7 April 2003	

Planned Regulatory Submittals – April through June 2003

Document	Planned Submittal Date	Comments
Site 11A excavation information package	April 2003	
Draft Engineering Evaluation/Cost Analysis (EE/CA) for IRP Site 11	May 2003	
Tenth Quarterly GW Report, February 2003 Sampling Activities	June 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: 23 January 2003 Copies provided to team members in February 2003.
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 the well 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

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Transmittal

Date: 22 April 2003

From: Lynn Marie Hornecker
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NALF Crows Landing

Installation: NALF Crows Landing

UIC Number: N60211

Document Title: Status Report

Author: Lynn Marie Hornecker SWDIV

Recipient:

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