

Transmittal

Date: 22 July 2002

From: Lynn Marie Hornecker

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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

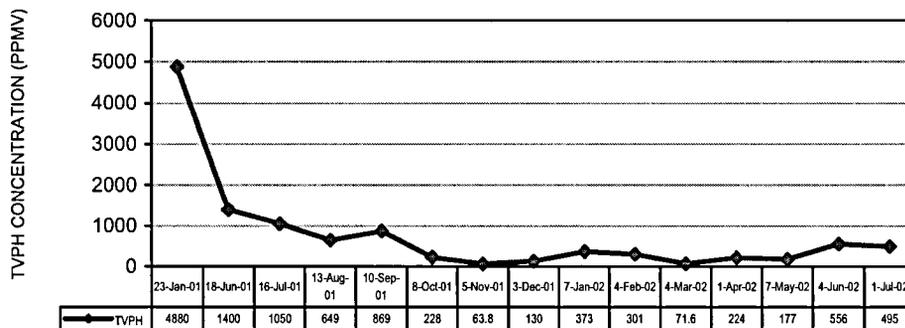
UST Cluster 1 – Tanks CL-1, CL-2, and CL-3

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. Portable Soil Vapor Extraction (SVE) treatment units have been used for testing and optimization activities. The most recently collected Total Volatile Petroleum Hydrocarbon (TVPH) concentration measurements are shown in Table 1 and Chart 1. ***More than 22,100 pounds of TVPH have been removed from the vadose zone at UST Cluster 1 as of early July 2002; additionally, approximately 120 pounds of other VOCs (xylenes, toluene, ethylbenzene, and benzene) have been removed from the vadose zone at this site.***

Table 1. PRELIMINARY Data for Soil Vapor Extraction (SVE) Optimization Activities at Underground Storage Tank (UST) Cluster 1

Well ID	Screened Interval (feet below ground surface)	Well Diameter (inches)	Estimated Radius of Influence in Feet (at 0.1 inch of water /at 0.5 inch of water)	Influent Vapor Concentration TVPH (ppmv) [combined influent from ten extraction wells]	Comments or Date of Sampling Event
<i>Optimization</i> 18 June 2001---					
CL1-VW-02 (S)	15 - 25	2	90/10	1,400	18 June 2001
CL1-VW-02(D)	40 - 55	4	70/25		
CL1-VW-10 (M)	38 - 43	2	80/25		
CL1-VW-11 (M)	38 - 43	2	70/15		
CL1-VW-11 (D)	46 - 56	4	110/40		
CL1-VW-12 (D)	45 - 55	4	120/45		
CL1-VW-13 (D)	46 - 56	4	100/55		
CL1-VW-20 (M)	27 - 32	4	85/40		
CL1-SV-01 (A)	20 - 30	2	65/20		
CL1-SV-01 (C)	46 - 60	4	65/35		
"				1,050	16 July 2001
"				649	13 August 2001
"				869	10 September 2001
"				228	8 October 2001
				63.8	5 November 2001
				130	3 December 2001
				373	7 January 2002
				301	4 February 2002
				71.6	4 March 2002
				224	1 April 2002
				177	7 May 2002
				556	4 June 2002
				495	1 July 2002

Chart 1. Total Volatile Petroleum Hydrocarbon (TVPH) Concentrations at UST Cluster 1
Selected Influent Concentrations from the Group of Vapor Extraction Wells
 (Preliminary Data Available As Of July 2002)



Note:
 The initial system influent concentration from 23 January 2001 is presented for comparison.

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

More than 2,000 pounds of petroleum hydrocarbons have been removed from the vadose zone at UST Cluster 2. Data is in the process of being evaluated and compiled for closure documents.

Installation Restoration Program

Site 11 – Former Disposal Pits Area

The Navy began addressing regulatory review comments on the Site 11 feasibility study report in February 2002. Comments were received from DTSC in June and July 2002, and the Navy is in the process of addressing the comments.

Site 11A - Current and Former Sewer Systems

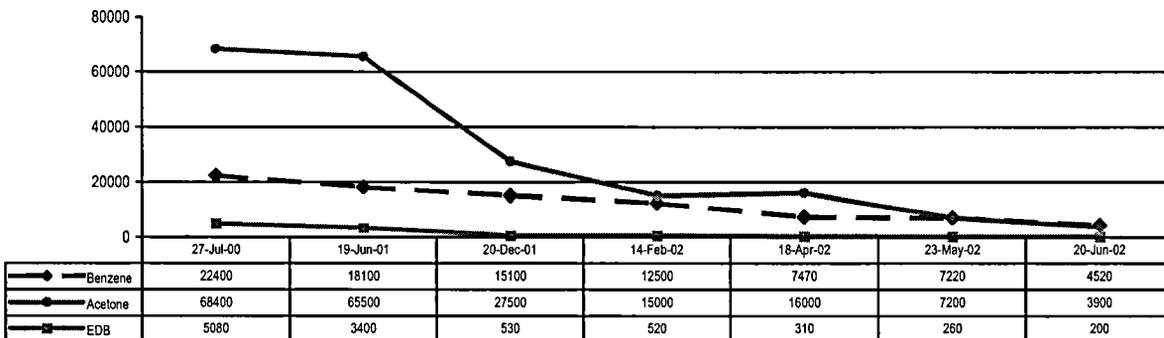
The Navy substantially completed the evaluation of additional geophysical survey data for the oxidation ponds of the original (former) sewage plant. Several additional subsurface anomalies were identified. The Navy submitted a summary of geophysical survey data with planned trench locations at the oxidation ponds on 17 July 2002, and trenching activities are tentatively scheduled to begin on or around 29 July 2002.

Site 17 – Demolished Hangar Area and Administration Area Plume

Groundwater extraction activities continued in the vicinity of the former dry well and near former UST Site 117. *More than 205 pounds of contaminants have been removed from the groundwater as of late June 2002 in the former dry well vicinity since groundwater extraction activities began.*

Selected VOC concentrations (acetone, benzene, and ethylene dibromide (EDB)) from water samples collected from well CL1-MW-12(S) are shown in the following chart.

**Selected VOC Concentrations at Well CL1-MW-12(S) Near Former Dry Well
 PRELIMINARY DATA**



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

Other Projects

A site tour and technical briefing were conducted for BCT members on 26 June 2002, and a copy of the attendance list is attached.

Groundwater Sampling

Groundwater sampling for the Spring 2002 event was conducted the week of 13 May 2002 and compilation of data is in progress. The report for the February 2002 sampling event was issued on 28 June 2002.

Record Search Activities

Acquisition and review of historical and technical documentation continues. Facility drawings and documentation pertaining to the NASA water supply well (located within 400 feet of the edge of the Administration Area Plume) were formally requested from NASA on 14 January 2002. Facility drawings and plans have not been received by the Navy as of 22 July 2002.

The Navy provided copies of the RCRA-related correspondence, obtained from DTSC, to NASA on 21 May 2002 for potential use in the EBS update.

Community Relations Program

The Navy issued a fact sheet for the community relations program in July 2002; approximately 160 copies of the fact sheet were mailed. The Navy continued to maintain the information repository at the library in Patterson.

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 water level data will be presented in groundwater monitoring reports. The information pertaining to pumping of irrigation wells is summarized in the following table.

**Table 3. Pumping Activities at Irrigation Water Supply Wells and Other Wells
 NASA Crows Landing Flight Facility - Updated July 2002**

<p>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>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>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.</i> Date(s) of Pumping</p>	<p>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>
Calendar Year 2001			
13-15 April 2001			
26-29 April 2001			
26-29 May 2001			
8-10 June 2001			
14-16 June 2001		14-20 June 2001	
20-22 June 2001			
3-7 July 2001	6-11 July 2001	4-9 July 2001	
13-18 July 2001	19-24 July 2001	13-20 July 2001	
26-29 July 2001	30 July – 3 August 2001	22-31 July 2001	
	15-18 August 2001	3-10 August 2001	
	25-28 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).	
Calendar Year 2002			
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	April 2002 – no use	4 – 6 April 2002	
6-8 April 2002		18 – 20 April 2002	
11-14 April 2002			
19-21 April 2002			
23-26 April 2002			
25-31 May 2002	May 2002 – no use	15-20 May 2002	
1 - 3 June 2002	5-7 June 2002	1-6 June 2002	
13 – 19 June 2002	10-12 June 2002		
29 – 30 June 2002	26-30 June 2002		

Meetings

BCT Meetings and/or Conference Calls during 2002

Date of Meeting	Comments
31 January 2002	Conference call
27 March 2002	Meeting in Sacramento. Draft final meeting summary issued on 25 April 2002.
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	Conference Call

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
Aquifer testing activities	4 June 2001	RWQCB: comments dated 14 June 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
Fourth Quarterly Monitoring Report	7 December 2001	RWQCB: comments dated 19 February 2002
Fifth Quarterly Monitoring Report	15 February 2002	RWQCB: comments dated 23 April 2002
Annual Basewide Groundwater Report	18 April 2002	RWQCB: comments dated 6 May 2002
Planned changes to routine groundwater sampling program	2 May 2002	RWQCB: comments received by telephone call on 9 May 2002
Quarterly GW Report, February 2002 Sampling Activities	28 June 2002	
Interim Data Summary, IRP Site 11A with planned trenching activities	17 July 2002	RWQCB: questions submitted on 22 July 2002

Planned Submittals – July through October 2002

Document	Planned Submittal Date	Comments
Planned Soil Sample Locations at UST Cluster 2	July 2002	
Quarterly GW Report, May 2002 Sampling Activities	September 2002	
Action Memorandum, Removal Actions	September 2002	

Attachments:

Attendance List from Site Tour of 26 June 2002
Proposed Agenda Items for 31 July 2002 BCT Meeting

CF:

Alan Berry
California Integrated Waste Management Board
Closure and Technical Services, Mail Stop 20
1001 I Street
Sacramento, CA 95812-4025

Mike Sonke
Stanislaus County
Hazardous Materials Division
Department of Environmental Resources
3800 Cornucopia Way, Suite C
Modesto, CA 95358-9492

Don Chuck
NASA Ames Research Center
Office of Environmental Services
M/S 218-1
Moffett Field, California 94035-1000

Tom Doszkocs
General Services Administration

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

**BCT CROWS LANDING TOUR
JUNE 26, 2002**

	ATTENDING	SIGNATURE	ORGANIZATION	PHONE #
1	Marianne Potacka	<i>Marianne Potacka</i>	Navy	(619) 532-0941
2	Jim Barton	<i>Jim Barton</i>	RWQCB	
3	Leslie Laudon		RWQCB	
4	Francesca D'Onfrio	<i>Francesca D'Onfrio</i>	DTSC	916-255-3603
5	Don Chuck	<i>Don Chuck</i>	NASA	650-604-0237
6	Abdul Hanif	<i>Abdul Hanif</i>	NASA	650-604-1001
7	Richard Jantz	<i>Richard Jantz</i>	Stanislaus County	
8	Kirk Ford		Stanislaus County	
9	Jim Simpson		Stanislaus County	
10	Keith Boggs		Stanislaus County	
11	Terry Rains Rein	<i>Terry Rein</i>	Stanislaus County	209 988-2444
12	Crispin Wanyolke	<i>Crispin Wanyolke</i>	Earth Tech	562-951-2057
13	Alan Berry	<i>Alan Berry</i>	IWMB	716-341-6796
14	Bob Hulet	<i>Bob Hulet</i>	Shaw	925-288-2162
15	David Kelly	<i>David Kelly</i>	Shaw	(925) 288-2321
16	David Otsubo	<i>David Otsubo</i>	CIWMB	(916) 341-6330
17	Vivienne Gallo	<i>Vivienne Gallo</i>	NITSA	(650) 604-5808
18				

Proposed Agenda

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

Project Managers' Meeting

31 July 2002, 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 July 2002

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

To: Diane Silva
Code ~~01LS.DS~~ *OSG.DS*
Administrative Record Manager

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

Installation: NALF Crows Landing

UIC Number: N60211

Document Title: *Status Report*

Author: *Lynn Marietta Hornecker, SWDIV*

Recipient: *Marianna Potacka, James Barton, Francesca D'Onofrio*

Record Date: *22 July 2002 + Email dated 23 July 2002*

Approximate Number of Pages: *10*

Sites: *Sites 11, 11A, 17 and UST Sites*

Key Words: *Status report*

Contract: *N/A*

CTO Number: *N/A*