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File: CLSEPTEMBER2002STATUSRPT.DOC

Transmittal

Date: 17 September 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. One portable Soil Vapor Extraction (SVE) treatment unit is in use at the site. The most recently collected Total Volatile Petroleum Hydrocarbon (TVPH) concentration measurements for individual vapor extraction wells are shown in Table 1; Chart 1 shows selected influent concentrations for the group of extraction wells.

Table 1. Selected PRELIMINARY Data for Samples from Individual Vapor Extraction Wells at Underground Storage Tank (UST) Cluster 1 – For Discussion Only

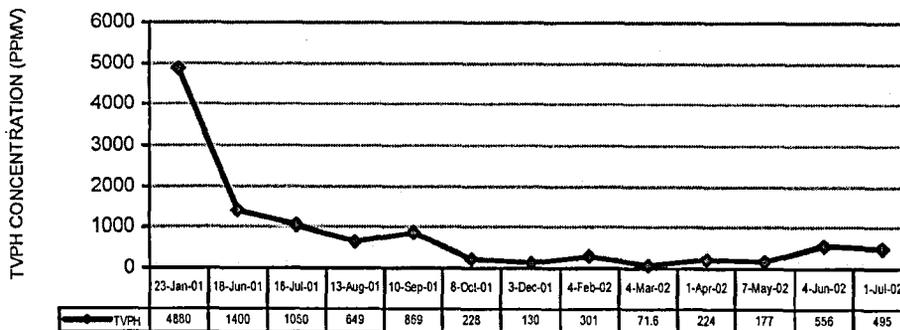
Well ID	Screened Interval (feet below ground surface)	Well Diameter (inches)	Vapor Concentration at end of 48-hour test TVPH (ppmv) (Date of Sample)	Vapor Concentration TVPH (ppmv) (Date of Sample)	Comments for August 2002 Data
CL1-VW-13(D)	46 - 56	4	7,780 (18 November 2000)	19.2 (27 August 2002)	No other VOCs detected at or above method quantitation limits
CL1-SV-01C	46 - 60	4	17,300 (11 August 2000)	2,800 (27 August 2002)	Benzene, Ethylbenzene, Toluene, and Xylenes reported at less than 50 ppmv
CL1-SV-01A	20 - 30	2	1,710 (4 November 2000)	330 (27 August 2002)	No other VOCs detected at or above method quantitation limits
CL1-VW-20 (M)	27 - 32	4	1,140 (4 August 2000)	290 (27 August 2002)	No other VOCs detected at or above method quantitation limits
CL1-VW-10(M)	38 - 43	2	10,700 (15 November 2000)	60 (44 duplicate) (27 August 2002)	No other VOCs detected at or above method quantitation limits
CL1-VW-02(S)	15 - 25	2	464 (8 December 2000)	210 (27 August 2002)	No other VOCs detected at or above method quantitation limits
CL1-VW-02(D)	40 - 55	4	492 (9 December 2000)	420 (27 August 2002)	No other VOCs detected at or above method quantitation limits
CL1-VW-11 (M)	38 - 43	2	3,400 (26 October 2000 at 24 hours)	470 (27 August 2002)	No other VOCs detected at or above method quantitation limits
CL1-VW-11 (D)	46 - 56	4	5,570 (26 October 2000)	160 (27 August 2002)	No other VOCs detected at or above method quantitation limits
CL1-VW-12 (D)	45 - 55	4	4,900 (1 November 2000)	240 (27 August 2002)	No other VOCs detected at or above method quantitation limits

Explanation:

ppmv parts per million by volume

TVPH total volatile petroleum hydrocarbons

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



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

Data is in the process of being evaluated and compiled for soil sampling at UST Cluster 2 and for closure documentation. The Navy submitted responses to NASA comments (dated August 2002) on the UST Cluster 2 data package on 12 September 2002.

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.

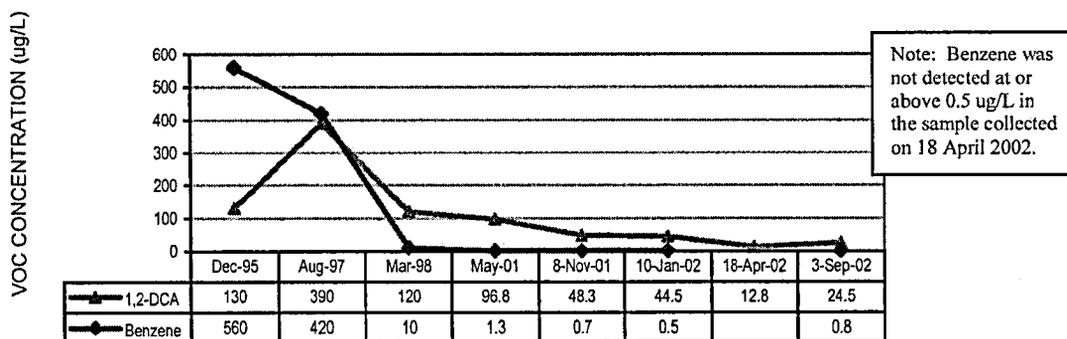
Site 11A - Current and Former Sewer Systems

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 conducted exploratory trenching activities at selected geophysical survey anomaly locations from approximately 12 through 20 August 2002 and data is currently being evaluated and compiled.

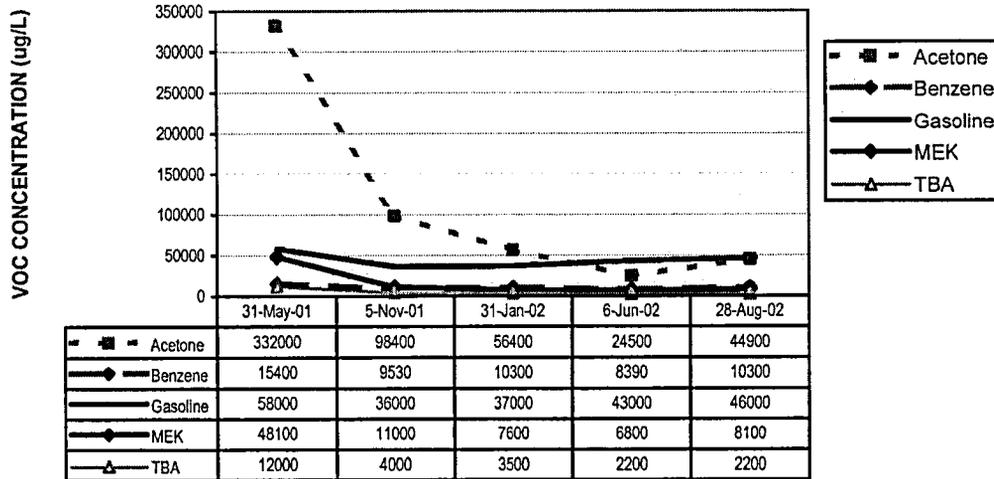
Site 17 – Demolished Hangar Area and Administration Area Plume

Groundwater extraction continued in the vicinity of the former dry well and near former UST Site 117. Selected VOC concentrations from samples collected from well 117-MW-02(S) and CL1-EX-01 are shown in the following charts.

Selected 1,2-DCA and Benzene Concentrations at Well 117-MW-02(S)
PRELIMINARY DATA
 (Screened interval: 49 - 74 feet bgs)



Selected VOC Concentrations at Well CL1-EX-01
PRELIMINARY DATA
 (Screened interval: 56 - 76 feet bgs)



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

Other Projects

Basewide Groundwater Sampling

Groundwater sampling for the Summer 2002 event was conducted the week of 12 August 2002 and compilation of data is in progress. Additionally, information is being compiled for the next annual groundwater report.

Abandoned water supply well 6S/8E-9M1 was surveyed by video camera on 5 September 2002. The well is approximately 520 feet deep. The well cover has been welded shut until a decision is made pertaining to potential future use of the well.

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 17 September 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 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 September 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. 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		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).	
<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	
		21 - 26 July 2002	
August 2002 - to be reported later	August 2002 - to be reported later	August 2002 - to be reported later	

Meetings

BCT Meetings 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	
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
20 November 2002 (PROPOSED)	

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
Responses to RWQCB comments on the Annual GW Report	20 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	RWQCB: Advance comments received 19 August 2002 with conference call planned for September 2002
Responses to RWQCB comments on the Sixth Quarterly GW Report	14 August 2002	
Seventh Quarterly GW Report, May 2002 Sampling Activities	12 September 2002	

Planned Submittals – September through December 2002

Document	Planned Submittal Date	Comments
Action Memorandum, Removal Actions at Site 11A	October 2002	
Work Plan, Removal Actions at Site 11A	October 2002	
Annual Basewide Groundwater Report	November 2002	
Summary Report, Time-Critical Removal Actions, UST Site 117 Vicinity	December 2002	

Miscellaneous Activities

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

Attachments:

Proposed Agenda Items for 25 September 2002 BCT Meeting
Photographs of video survey of Well 6S/8E-9M1

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Tom Doszkocs
General Services Administration

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

Attachment

Proposed Agenda

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

Project Managers' Meeting Conference Call

25 September 2002, 10:30 A.M.

Conference Call Instructions:

Dial Chorus Call number: 1-800-882-3610

Enter Code 4071#

You will hear a beep indicating that you are on the conference call.
Subsequent beeps will indicate that others are joining the call.

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**

Attachment

Preparing video camera at Well 6S/8E-9M1.

NASA Crows Landing Flight Facility

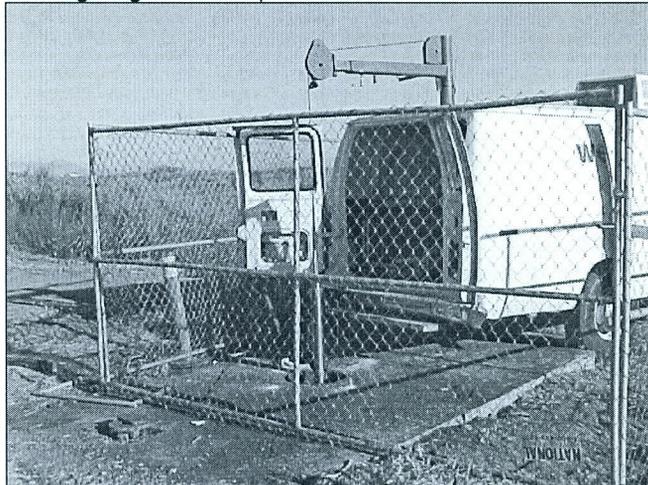
Date of Photo: 5 September 2002



Truck with video logging equipment at Well 6S/8E-9M1.

NASA Crows Landing Flight Facility

Date of Photo: 5 September 2002



Transmittal

Date: 17 Sep 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: September 2002 Status Report

Author: Lynn Marie Hornecker

Recipient: James Barton RUDER, Francesca D'Andrea DTSC

Record Date: 17 Sep 2002

Approximate Number of Pages: 11

Sites: USTs 109, 117, cluster 1, cluster 2, IRP sites 11, 11A, 17

Key Words: status report

Contract: N/A

CTO Number: N/A