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

The purpose of this interim status report is to provide an update on work in progress. Final work plans for additional site verification and/or site remediation activities at various sites were completed during mid-October through mid-November 2000.

Underground Storage Tank (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. A portable soil vapor extraction (SVE) treatment unit was mobilized to UST Cluster 1 in July 2000, and individual vent tests were initiated in early August 2000. The portable SVE unit is operating under a permit issued by the San Joaquin Valley Air Pollution Control District, has a blower capacity of 250 standard cubic feet per minute (scfm), and a thermal oxidizer that operates at or above 1,400 degrees Fahrenheit. A permit application was submitted to the San Joaquin Valley Air Pollution Control District (SJVAPCD) for a second portable SVE unit (comparable to the unit currently operating at UST Cluster 1) for use at

various UST sites, an authorization to construct was issued on 10 October 2000 by SJVAPCD, and the second SVE unit is operating at UST Cluster 1.

The wells identified in the following table have been or were in the process of being tested (for approximately 48 hours each) at the time this status report was written.

Table 1. PRELIMINARY Test Data for Vapor Extraction Wells at UST Cluster 1

Well ID	Screened Interval (feet below ground surface)	Well Diameter (inches)	Flow (scfm) / Vacuum (inches of water) at approximately 48 hours (end of test)	Estimated Radius of Influence in Feet (at 0.1 inch of water /at 0.5 inch of water)	Vapor Concentration at end of 48-hour test TVPH (ppmv)	Comments/Date of Completion of Testing Activities	
CL1-VW-20 (M)	27-32	4	15.2 / 90	85/ 40	5,750 Acetone 22.0 "J" MEK 3.6 "J"	4 August 2000	1
CL1-VW-22 (D)	48-53	4	20 / 70	95/ 50	252 No benzene or acetone	9 August 2000	2
CL1-SV-01 (C)	46-60	4	23 / 110	65/ 35	87,100 Trace Acetone during first 24 hours Benzene 49.6	11 August 2000	3
CL1-VW-04 (M)	36-41	2	10 / 107	55/ 10	1,330 Trace Acetone during first 24 hours	16 August 2000	4
CL1-VW-23 (D)	48-53	4	18/ 110	105/ 45	7,100 Acetone 5.96 "J"	18 August 2000	5
CL1-VW-03 (S)	16-26	2	37.5/ 84	90/ 35	984 Trace Acetone during first 4 hours	23 August 2000	6
CL1-VW-19 (D)	46-56	4	22/ 106	90/ 50	1,630 Acetone 1.3 "J"	25 August 2000	7
CL1-VW-08 (D)	46-56	4	20/ 37	85/ 30	2,610 Acetone 0.863 "J"	30 August 2000	8
CL1-VW-25 (D)	48-53	4	12.5/ 108	80/ 35	4,460 Benzene 4.95	1 September 2000	9
CL1-VW-20 (S)	18-23	2	12.4/ 101	70/ 40	1,020 Acetone 2.86 "J"	7 September 2000	10
CL1-VW-07 (M)	34-44	2	10.1/8	50/20	11,200	9 September 2000	11
CL1-VW-19(S)	21-26	2	11/92	75/30	914 Acetone 1.35	13 September 2000	12
CL1-VW-03(D)	47-52	4	20/90	90/40	3,500 No acetone, no BTEX	15 September 2000	13
CL1-VW-24 (D)	48 - 53	4	7/105	60/20	7,180 Benzene 4.71	20 September 2000	14
CL1-VW-21 (D)	43 - 53	4	20/32	110/45	237 trace acetone and MEK in samples collected during first 24 hours	22 September 2000	15
CL1-VW-08 (S)	25 - 34	2	20/35	90/25	1,350 no BTEX	27 September 2000	16
CL1-VW-19 (M)	30 - 35	2	12.4/98	65/25	2,600 Acetone 2.06 "J"	29 September 2000	17

Table 1. PRELIMINARY Test Data for Vapor Extraction Wells at UST Cluster 1

Well ID	Screened Interval (feet below ground surface)	Well Diameter (inches)	Flow (scfm) / Vacuum (inches of water) at approximately 48 hours (end of test)	Estimated Radius of Influence in Feet (at 0.1 inch of water /at 0.5 inch of water)	Vapor Concentration at end of 48-hour test TVPH (ppmv)	Comments/Date of Completion of Testing Activities	
CL1-VW-07 (D)	48 - 58	4	12.5/109	65/25	30,100 [no BTEX or acetone]	4 October 2000	18
CL1-VW-04 (D)	45 - 55	4	9.5/102	50/25	3,170 [no BTEX or acetone]	6 October 2000	19
CL1-VW-08 (M)	38 - 43	2	10/8 (at 24 hours)	70/10	1,090 at 24 hours [No BTE compounds]	11 October 2000	20
CL1-VW-17 (D)	46 - 56	4	15/85	95/40	37,800 Benzene 7.39 "J"	13 October 2000	21
CL1-VW-01 (S)	9 - 14	2	20.5/37	70/20	1,630 Acetone 1.87 "J"	18 October 2000	22
CL1-VW-16 (M)	36 - 41	2	12.8/95	65/25	4,350 Benzene 1.3 "J"	20 October 2000	23
CL1-VW-11 (S)	25 - 34	2	7/109	30/10	18,300 No acetone or Benzene	25 October 2000	24
CL1-VW-11 (M)	38 - 43	2	10/31 (at 24 hours)	70/15	27,900 [No acetone or BTEX]	26 October 2000	25
CL1-VW-11 (D)	46 - 56	4	19.2/93	110/40		26 October 2000	26
CL1-VW-12 (D)	45 - 55	4	15.4/102	120/45		1 November 2000	27
CL11-VW-12 (M)	30 - 40	2	25/14	90/30		2 November 2000	28
CL1-VW-12(S)	17 - 22	2	10/101	55/20		3 November 2000	29
CL1-VW-01(A)	20 - 30	2	28/79	65/20		4 November 2000	30
CL1-VW-15(M)	30 - 40	2	10/36	55/20		8 November 2000	31
CL1-VW-06(M)	38 - 43	2	10/3	90/20		9 November 2000	32
CL1-VW-15(D)	45 - 55	4	21/70	90/40		10 November 2000	33
CL1-VW-6(D)	46 - 56	4	21/116	100/35		11 November 2000	34
CL1-VW-10(M)	38 - 43	2	10/10	80/25		15 November 2000	35
CL1-VW-13(M)	37 - 42	2	15/7.5	80/30		16 November 2000	36
CL1-VW-10(S)	24 - 34	2		70/30		17 November 2000	37
CL1-VW-13(D)	46 - 56	4				18 November 2000	38
CL1-VW-17(M)	36 - 41	2				21 November 2000	39
CL1-VW-10(D)	45 - 55	4					40

Explanation:

ppmv parts per million by volume
 BTEX Benzene, Toluene, Ethylbenzene, Xylenes

TVPH total volatile petroleum hydrocarbons
 MEK Methyl ethyl ketone

Installation Restoration Program

Site 11 – Former Disposal Pits Area

Unexploded ordnance (UXO) and geophysical surveys were conducted during November 2000. Review of survey data is in progress.

Site 17 – Demolished Hangar Area and Administration Area Plume

Procurement activities continue for the acquisition of engineering services to revise the feasibility study for Site 17 to address the entire groundwater plume, including the releases from Site 17, UST Cluster 1, and UST 117. Planning activities continue for implementation of groundwater extraction activities at the Administration Area Plume.

Other Projects

Groundwater Sampling

Groundwater samples were collected at wells identified in the Rev 1 Work Plan during early November 2000. Sample locations include Site 11, Site 17, UST Cluster 1, UST Cluster 2, UST 109, and UST 117.

Sewer Investigation

Geophysical surveys were conducted at various locations within the former and most currently active sewer systems.

Closure of Abandoned Water Supply Wells

A videographic survey of the inactive water supply well at Building 151 was completed. The closure of two former monitoring wells at Site 11 was completed.

Water Level Monitoring

Water levels were collected at UST Cluster 1 using a leased transducer with data logger.

Record Search Activities

Historical aerial photographs taken during the period from 1943 through 1956 were acquired from the Naval Facilities Engineering Command Historian's Office, and a photograph dated 1951 is attached. Former sewage plant structures are visible on the photograph.

Meetings

25 October 2000: A project meeting was held at the Stanislaus County offices in Modesto. The list of attendees is attached.

January 2001: The meeting tentatively planned for January 2001 has not been scheduled.

Attachments

Attendance List from 25 October 2000 project meeting

Photographs of Geophysical Surveying Activities (November 2000)

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Project File (Crows Landing)

NASA Crows Landing Flight Facility

Meeting Participants

Meeting Date: 25 October 2000 (Meeting Location: Stanislaus County)

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Notes:

- ✓ indicates attendance
- ✓ ✓ indicates participation via telephone

Photographs of Geophysical Surveying Activities NASA Crows Landing Flight Facility



Photograph 1 - IT geophysics surveyor, surveying to the east of Site 11 with a Geonics EM-31, looking northwest (11/13/00)



Photograph 2 - IT geophysics surveyor, surveying sanitary sewer oxidation basin with a Geonics EM-31, looking northwest (11/16/00)

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CROWS LANDING
SSIC NO. 5090.3

SUPPLEMENT TO THE INTERIM STATUS REPORT FOR VARIOUS
ENVIRONMENTAL RESTORATION PROGRAM PROJECTS

DATED 24 NOVEMBER 2000

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