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MOFFETT FIELD
SSIC NO. 5090.3

DEPARTMENT OF THE NAVY
NAVAL AIR STATION
MOFFETT FIELD, CA 94035-5000

IN REPLY REFER TO:
6280/28
Ser 189/ 4271
23 NOV 1988

California Regional Water Quality Control Board
San Francisco Bay Region
Attn: Steve Ritchie
Executive Officer
1111 Jackson Street, Room 6040
Oakland, CA 94607

Gentlemen:

Enclosed is our November 15, 1988 status report on Installation Restoration and the cleanup efforts at Naval Air Station Moffett Field.

If you have any questions, please contact Mr. Michael Cain at (415) 966-5744.

Sincerely,

Encl:
(1) Installation Restoration Program (IRP) Monthly Status/Action Report of November 15, 1988

Copy to: ?
Commander, Western Division, Naval Facilities Engineering Command (Code 1146, Code 09C5)
Environmental Protection Agency, Region 9 (Lewis Mitani) ~~1125~~ .17
~~Santa Clara~~ Valley Water District (Tom Iwamaura) ~~1126~~ .18
Santa Clara County Health Department (Charles Nicholson) ~~1127~~ .19
Department of Health Services (Chein Kao) ~~1128~~ .20
State Water Resource Control Board (Gil Torres) ~~1129~~ .21
California Waste Management Board (Jack Miller) ~~1130~~ .22
City of Mountain View (Russ Frazer) ~~1131~~ .23
City of Sunnyvale (Dan Firth) 1132 .24
California Regional Water Quality Control Board (Lila Tang)
International Technology Corporation (Keith Bradley) ~~1133~~ .25
Martin Marietta Energy Systems (Paula Pritz) ~~1134~~ .26

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INSTALLATION RESTORATION PROGRAM (IRP)
MONTHLY STATUS/ACTION REPORT
NOVEMBER 15, 1988

1. Field activities remained on schedule in October as Phase I well installation nears completion. The last five geophysical borings were drilled, six wells were installed, 16 wells were developed, and 88 monitoring well samples were collected. Shallow soil sampling and soil gas survey work continued. More detail is provided for October field work in Tables 1 and 2.

2. On October 3, 1988, Western Division, Naval Facilities Engineering Command, delivered our proposed Federal Facility Agreement to the Environmental Protection Agency (EPA), California Regional Water Quality Control Board (CRWQCB) and the Department of Health Services (DHS). We encouraged these agencies to exercise their responsibilities through the Comprehensive Environmental Response Compensation Liability Act (CERCLA) process as parties to this agreement, and to enter negotiations with Navy as soon as possible.

3. Our next IRP report will contain a Quarterly Hydrogeological report and provide an update report for our Remedial Investigations (RI). Table 3 is an outline of the report's content.

4. Phase two of our five volume work plan was combined with our phase one work plan and submitted to regulatory agencies in May 1988. Regulatory agencies will have an opportunity to negotiate changes for phase two work once they have reviewed the December 1988, RI update report.

5. On October 14, 1988, we submitted to Bay Area Air Quality Management District (BAAQMD) our Solid Waste Assessment Test (SWAT), screening questionnaire for landfill sites one and two.

6. Table 4 is field work planned for November, 1988.

TABLE 1. OCTOBER FIELD ACTIVITIES

NAS MOFFETT FIELD

SITE NUMBER	GEOPHYSICAL BORINGS	WELL INSTALLATION	WELL DEVELOPMENT	WELL SAMPLING	SOIL GAS SURVEY	SOIL SAMPLES
1				X		
2				X		
3		X	X	X	X	
4		X	X			X
5				X	X	
6						X
7			X	X		X
8	X	X	X			
9				X	X	
10		X	X	X		
11				X		
12			X	X		
13						X
14				X		
15						
16						
17						
18						
19				X		

Table 2.
Investigation Status: Monitoring Wells NAS MOFFETT FIELD
October 31, 1988

Well Location	Existing (E) or New Well (Phase I or II)	Date Installed	Date Developed	1st Mo. Sample	2nd Mo. Sample	3rd Mo. Sample
Site 1						
W1-5 (A)	I	6-27	8-5	8-10	9-14	10-10
W1-6 (A)	I	7-18	8-12	8-18	9-14	10-10
W1-7 (A)	I	7-1	7-29	8-17	9-15	10-11
W1-8 (A)	I	7-11	8-3	8-11	9-15	10-10
W1-9 (F)	I	7-6	8-10	8-12	9-15	10-10
W1-10 (F)	I	7-8	8-10	8-12	9-15	10-11
W1-11 (F)	I	7-12	8-10	8-12	9-16	10-11
W1-12 (A)	I	9-2		9-19		10-12
W1-13 (F)	I	8-10	8-12	8-19	9-16	10-11
Site 2						
W2-4 (A)	I					
W2-5 (A)	I	7-13	8-3	8-5	9-9	10-5
W2-6 (A)	I	7-14	8-11	8-16	9-8	10-6
W2-7 (A)	I	7-7	8-12	8-17	9-12	10-7
W2-8 (F)	I	6-30	8-9	8-9	9-13	10-12
W2-9 (A)	I	6-28	8-11	8-18	9-13	10-7
W2-10 (F)	I	7-13	8-11	8-19	9-14	10-12
W2-11 (F)	I	7-14	8-9	8-10	9-13	10-7
Site 3						
W3-1 (A)	E					
W3-2 (A)	E					
W3-3 (A)	E					
W3-4 (B2)	E					
W3-7 (B2)	E					
W3-8 (A)	E					
W3-9 (B1)	E					
W3-11 (A)	E					
W3-12(B1)	I	9-21	9-27	10-24		
W3-13(B1)	I	10-12	10-17	10-25		
W3-14(B1)	I	9-23	10-18	10-20		
W3-15(B2)	I	9-29	10-18	10-20		
W3-16 (C)	I	10-12	10-20	10-28		
W3-22 (A)	I	9-8	9-21	10-26		
W3-23 (A)	I	8-29	9-21	10-24		
W3-17(B1)	II					
W3-18 (A)	II					
W3-19 (A)	II					
W3-20 (A)	II					
W3-21 (A)	II					

Table 2.
Investigation Status: Monitoring Wells NAS MOFFETT FIELD
October 31, 1988

Well Location	Existing (E) or New Well (Phase I or II)	Date Installed	Date Developed	1st Mo. Sample	2nd Mo. Sample	3rd Mo. Sample
Site 4						
W4-2 (A)	E					
W4-3 (A)	E					
W4-4 (A)	E					
W4-6 (A)	E					
W4-7 (C)	I	10-4	10-7			
W4-8 (C)	I					
W4-9 (B2)	I	10-20				
W4-10 (A)	II					
W4-11 (A)	II					
W4-12(B1)	II					
W4-13(B2)	II					
W4-14 (A)	II					
W4-15 (A)	II					
W4-16 (A)	II					
Site 5						
W5-4 (B2)	I	9-9	9-16	10-18		
W5-5 (C)	I	9-15	9-28	10-18		
W5-6 (A)	I	8-16	9-26	10-18		
W5-7 (A)	I	8-10	9-15	10-19		
W5-8 (B1)	I	8-8	9-12	10-14		
W5-9 (A)	I	8-3	9-16	10-17		
W5-10 (A)	I	8-22	9-9	10-14		
W5-11 (A)	I					
W5-12 (A)	I					
W5-13 (A)	I					
W5-14 (A)	I	8-15	9-27	10-18		
W5-15 (A)	I	8-17	8-26	10-17		
W5-16 (A)	I	8-15	9-26	10-18		
W5-17 (A)	I	8-18	8-29	10-14		
W5-18 (A)	I	8-11	9-29	10-18		
W5-19 (A)	I	8-5	9-24	10-14		
Site 6						
W6-2 (A)	E					
W6-3 (A)	E					
W6-8 (A)	II					

Table 2.
Investigation Status: Monitoring Wells NAS MOFFETT FIELD
October 31, 1988

Well Location	Existing (E) or New Well (Phase I or II)	Date Installed	Date Developed	1st Mo. Sample	2nd Mo. Sample	3rd Mo. Sample
Site 7						
W7-1 (A)	E					
W7-4 (B1)	E					
W7-8 (A)	E					
W7-13 (A)	E					
W7-15(B1)	E					
W7-16 (C)	I					
W7-17(B1)	II					
W7-18 (A)	II	9-27	10-21	10-27		
W7-19 (A)	II	9-28	10-13	10-27		
W7-20 (A)	II	9-20	10-12	10-27		
W7-21 (A)	II	9-22	10-7	10-27		
Site 8						
W8-1 (A)	E					
W8-2 (B1)	I	10-25				
W8-3 (C)	I					
W8-4 (A)	I	8-18	10-5			
W8-5 (A)	I	8-27	10-5			
W8-6 (A)	I	8-23	10-3			
W8-7 (B1)	II					
W8-8 (A)	II					
Site 9						
W9-1 (A)	E					
W9-2 (A)	E					
W9-3 (C)	I	8-18	9-2	9-22	10-5	
W9-4 (B2)	I	7-21	8-23	9-21	10-4	
W9-5 (B3)	I	7-28	8-17	9-21	10-3	
W9-6 (A)	I	7-30	8-29	9-6	10-4	
W9-7 (A)	I	7-25	9-2	9-21	10-3	
W9-13(B1)	I	7-19	8-22	9-21	10-3	
W9-14(B1)	I	8-8	8-30	9-22	10-4	
W9-15(B2)	I	8-4	8-25	9-21	10-4	
W9-27(B1)	I	7-20	8-31	9-22	10-3	
W9-8 (A)	II					
W9-9 (A)	II					
W9-10 (A)	II					
W9-11(B1)	II					
W9-12(B1)	II					
W9-16 (A)	II					
W9-17 (A)	II					
W9-18 (A)	II					
W9-19 (A)	II					
Site 9 (Cont.)						

Table 2.
Investigation Status: Monitoring Wells NAS MOFFETT FIELD
October 31, 1988

Well Location	Existing (E) or New Well (Phase I or II)	Date Installed	Date Developed	1st Mo. Sample	2nd Mo. Sample	3rd Mo. Sample
W9-20 (A)	II					
W9-21 (A)	II					
W9-22 (A)	II					
W9-23 (A)	II					
W9-24 (A)	II					
W9-25 (A)	II					
W9-26 (A)	II					
Site 10						
W10-2 (A)	E					
W10-3(B2)	E					
W10-4(B1)	E					
W10-5 (A)	I	8-4	9-27	9-29	10-6	
W10-6 (C)	I	10-3	10-3	10-31		
Site 11						
W11-1 (A)	I	8-25	10-5	10-26		
W11-2 (A)	I	8-29	9-28	10-25		
Site 12						
W12-1 (A)	I	9-8	10-14	10-31		
W12-2 (A)	I	9-8	10-18	10-31		
W12-3 (A)	I	9-12	9-29	10-31		
Site 14						
W14-1(B1)	I	8-24	9-1	9-26	10-5	
W14-2 (A)	I	8-1	9-1	9-27	10-4	
W14-3 (A)	I	7-20	9-6	9-26	10-5	
W14-4 (A)	I	7-28	9-1	9-27	10-4	
W14-5(B1)	I	8-12	9-2	9-26	10-5	
W14-6(B1)	I	8-26	9-1	9-26	10-5	
Site 19						
W19-1 (A)	I	7-27	9-7	9-28	10-12	
W19-2(B1)	I	8-30	9-7	9-28	10-12	
W19-3(B1)	I	9-1	9-7	9-28	10-13	
W19-4 (A)	I	7-29	9-6	9-28	10-13	

TABLE 3

PROPOSED CONTENTS FOR MOFFETT QUARTERLY HYDROGEOLOGIC AND REMEDIAL INVESTIGATION UPDATE REPORT DUE IN DECEMBER, 1988 (REPORT TO BE DATA ORIENTED--NO CONCLUSIONS)

I. SUMMARY OF ACTIVITIES IN FIELD (ALL SITES)

A. Executive Summary of Project Status to Date
B. Boreholes

1. Number completed (Phase I, etc.)
2. Number developed (Phase I, etc.)

C. Slug Tests Performed
D. Soil Borings Completed
E. Soil Gas Survey Status
F. Sampling

1. Number of ground water samples (taken/results)
2. Number of surface water samples (taken/results)
3. Number of soil samples (taken/results)

G. Identification of Major Activities Planned for Next Reporting System
H. Identification of Major Problem Areas (If any)

II. DISCUSSION OF EACH SITE (ALL SITES)

A. Objectives of Investigation
B. What's Completed--Field
C. What Remains--Field
D. Sampling progress
How many rounds completed
E. Phase I v. Phase II, agency approval requested

III. APPENDICES

A. Maps, as practical

1. Boring and well locations/soil gas transects (Essentially all Phase I work)
2. Ground water level contours (sites 1, 2 and 9 only)

B. Boring logs (Essentially all Phase I work)
C. Well construction diagrams (essentially all Phase I work)
D. Geologic sections (Sties 1, 2 and 9 only)
F. Tables

1. Water level measurements (Sites 1, 2 and 9 only)
2. Development logs (Essentially all Phase I work)
3. Chemical analysis (Sites 1, 2 and 9 only)

TABLE 3

PROPOSED CONTENTS FOR MOFFETT QUARTERLY HYDROGEOLOGIC AND REMEDIAL INVESTIGATION UPDATE DUE IN DECEMBER, 1988 (REPORT TO BE DATA ORIENTED--NO CONCLUSIONS) (Con't)

G. Slug tests organized by test (Sites 1 and 2 only)

   1. Data
   2. Calculations
   3. Comment/text

H. Lab tests

   1. Permeability results (Sites 1 and 2 only)

I. Listing of significant variances
J. Summary of major/significant project meetings

TABLE 4. NOVEMBER FIELD ACTIVITIES PLANNED

NAS MOFFETT FIELD

SITE NUMBER	GEOPHYSICAL BORINGS	WELL INSTALLATION	WELL DEVELOPMENT	WELL SAMPLING	SOIL GAS SURVEY	SOIL SAMPLI
1						
2						
3				X	X	
4		X	X			
5				X	X	
6				X		
7		X	X	X		
8		X	X			X
9				X	X	
10				X	X	
11				X		X
12					X	X
13						
14				X		
15						
16						
17						
18						
19				X		