



Admin Record

DEPARTMENT OF THE NAVY
CRANE DIVISION
NAVAL SURFACE WARFARE CENTER
CRANE, INDIANA 47822-8000

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Director, Waste Management Division
RCRA Permitting Branch (5HR-13)
U.S. Environmental Protection Agency, Region V
Attn: Ms. Carol Witt-Smith (Indiana Section)
230 South Dearborn Street
Chicago, IL 60604

Dear Ms. Witt-Smith:

Crane Division, Naval Surface Warfare Center (NAVSURFWARCENDIV) submits for your review, the sixth RFI Progress Report, November 1991 through January 1992.

NAVSURFWARCENDIV Crane point of contact is Mr. Thomas J. Brent, Code 09510, telephone 812-854-1132.

Sincerely,

J.D. FARIS
Assistant Public Works Officer
By direction of
the Commander

Encl:

- (1) Sixth RFI Progress Report, 01 November 1991 through 31 January 1992.
- (2) Certification Statement

Copy to: (w/o encl)
NORTHNAVFACENCOM, BILL SCHROCK (Code 142)
NORTHNAVFACENCOM, JEFF CIOCCO (Code 142)
COMNAVSEASYSOM (SEA 6541)

**SIXTH RFI PROGRESS REPORT
01 NOVEMBER 1991 - 31 JANUARY 1992
FOR
NAVAL SURFACE WARFARE CENTER CRANE, INDIANA**

1. In compliance with the Corrective Action Requirements, Attachment III, of the Naval Weapons Support Center Crane (NWSCC) Final RCRA Permit, the following RCRA Facility Investigation (RFI) Progress Report is submitted. The report summarizes the Installation Restoration Program (IRP) RFI's at various SWMUs during the report period November 1991 through January 1992.

2. Activities of this report period encompassed field investigations, laboratory analyses, work plan preparations, the fourth Technical Review Committee meeting, and report writing. A site-by-site status report follows.

3. **SITE: MUSTARD GAS BURIAL GROUNDS (MGBG) - SWMU: #01/12**

(a) **RFI Phase II Soils and Ground Water:**

The Navy submitted the Phase II Ground Water and Soils Draft Work Plan on 10 September 1991 to the USEPA and the TRC. Currently awaiting USEPA comments prior to finalizing the work plan. Fieldwork is scheduled to begin in late April 1992.

4. **SITE: DYE BURIAL GROUNDS (DBG) - SWMU: #02/11**

(a) **Interim Measure - Source Location:**

The geophysical study was conducted 23-27 January 1991. A draft report was submitted to the USEPA on 14 June 1991.

(b) **RFI Phase II Ground Water:**

The Draft Report "Geology, Hydrology and Phase II Ground-Water Quality Assessment of the Dye Burial Grounds..." has been completed, and was submitted to the USEPA on 4 March 1991 for review. Currently awaiting USEPA comments prior to finalizing the report.

(c) RFI Phase III Ground Water:

A Data Package with the first round ground water sampling data was submitted on 19 September 1991. The second round ground water sampling Data Package was submitted on 06 November 91. The third round of sampling began in December and is currently ongoing. The estimated date for submission of the draft Phase III Ground Water Report to the USEPA is October 1992.

8. SITE: AMMUNITION BURNING GROUND (ABG) - SSMU: 403/10

(a) RFI Phase III Ground Water:

A third dye trace test of the Beech Creek Aquifer was performed on 30 June. The estimated date for submission of the draft Phase III Ground Water Report to the USEPA is April 1992.

(b) RFI Phase II Surface Water:

The first round of surface water sampling has been rescheduled for the late Winter or Spring of 1992 to due the extremely dry conditions NWSCC experienced in the late Summer of 1991. The surface sampling was attempted in early January 1992 but the conditions were still extremely dry and the decision was made to wait for higher flow. The estimated date for submission of the draft Phase II Surface Water Report to the USEPA is October 1992.

(c) RFI Phase III Soils Sampling And Analysis:

The draft Phase III, Part 1 Soils RFI Report is in preparation. The estimated date for submission of draft Part 1 Report to the USEPA is late February or early March 1992. The Part 2 soils effort will commence upon satisfactory review of the Part 1 findings.

(d) Soils Stabilization Project:

A soils stabilization project is currently under design. The project will consist of re-vegetation of the slopes in the ABG area to control surface erosion of the soil. Construction of the project is expected to begin this summer.

6. SITE: McCOMISH GORGE (MG) - SWMU: #04/02**(a) RFI Phase II Soils Sampling and Analysis:**

The field sampling has been completed for the Phase II effort. The chemical and physical analyses are completed. The estimated date for submission of the draft Phase II Soils Report to the USEPA has been moved back to March 1992.

(b) RFI Interim Measure:

An RFI Interim Measure Report for the McComish Gorge was submitted 22 August 1990 by the Navy. On 07 January 1991 the USEPA approved a revised Interim Measure report. The USEPA considers the Interim Measure to be complete.

(c) RFI Phase III Ground Water:

The Navy submitted the Phase III Ground Water Draft Work Plan to the USEPA and the TRC on 12 Aug 1991. The Work Plan addresses both this SWMU and SWMU #05/03, the Old Burn Pit. Comments were received from the USEPA on December 30, 1991. The Work Plan is currently being revised based on USEPA comments and will be resubmitted on 13 February 1992. Fieldwork is scheduled to begin in late April 1992.

7. SITE: OLD BURN PIT (OBP) - SWMU: #05/03**(a) RFI Phase II Soils Sampling and Analysis:**

The field sampling has been completed for the Phase II effort. The chemical and physical analyses are completed. The estimated date for submission of the draft Phase II Soils Report to the USEPA and the TRC is late February or early March 1992.

(b) RFI Interim Measure:

On 26 November 1990 an Interim Measure Drum Sampling Report for the Old Burn Pit was submitted to the USEPA for review. A subsequent addendum to the report was forwarded to the USEPA for review. On 07 January 1991 the USEPA approved the revised Interim Measure Report, a separate Interim Measure at the site which removed debris. The USEPA considers the Interim Measure to be complete.

(c) RFI Phase III Ground Water:

The Navy submitted the Phase III Ground Water Draft Work Plan to the USEPA and the TRC on 12 Aug 1991. The Work Plan addresses both this SWMU and SWMU #04/02, McComish Gorge. Comments were received from the USEPA on December 30, 1991. The work plan is currently undergoing revisions in response to USEPA comments and will be resubmitted 13 February 1992. Fieldwork is scheduled to begin in late April.

8. SITE: DEMOLITION AREA (DEMO) - SWMU: #06/09

(a) RFI Phase II Ground Water:

A Data Package with the first round ground water sampling data was submitted on 19 September 1991. The second round ground water sampling Data Package was submitted on November 6, 1991. The third round of sampling is currently in progress and should be completed by the end of February. The estimated date for submission of the draft Phase II Ground Water Report to the USEPA is October 1992.

9. SITE: OLD RIFLE RANGE (ORR) - SWMU: #07/09

(a) RFI Phase III Ground Water:

A Data Package with the first round ground water sampling data was submitted on 19 September 1991. The second round ground water sampling Data Package should be submitted on November 6, 1991. The third round of sampling is currently in progress and should be completed by the end of February. The estimated date for submission of the draft Phase III Ground Water Report to the USEPA is October 1992.

(b) RFI Phase II Soils Sampling And Analysis:

Field work and laboratory analysis has been completed. The Draft Phase II Soils Report was submitted to the USEPA on 24 June 1991. Awaiting Comments from USEPA prior to finalizing the report.

10. SITES: LOAD & FILL BUILDING 106 POND (LF106) - SWMU: #08/17
MINE FILL A (MFA) - SWMU: #12/14
MINE FILL B (MFB) - SWMU: #13/14
PYROTECHNIC TEST AREA (PTA) - SWMU: #19/00

(a) RFI Phase I Environmental Monitoring Reports (EMRs):

The Phase I EMRs have been prepared and a draft submitted to the USEPA and the TRC on December 6, 1991. Comments have been received from the Army Corps of Engineers and the U.S. Fish and Wildlife. We are currently awaiting comments from USEPA prior to finalizing the report.

11. SITE: PESTICIDE CONTROL AREA/R-150 TANK BLDG. 2189 (PCA) - SWMU: #09/05

(a) RFI Phase III Soils and Phase III Ground Water:

The Phase III Soils and Phase III Ground Water Draft Work Plans have been combined and were submitted to the USEPA and the TRC on 9 August 1991 for review. Comments were received from the USEPA on December 30, 1991 and the plan is currently under revision. It will be resubmitted on February 13, 1992. Field work is scheduled to begin at this site in late April 1992.

12. SITE: ROCKEYE - SWMU: #10/15

(a) RFI Phase III Ground Water:

A Data Package with the first round ground water sampling data was submitted on 19 September 1991. The second round ground water sampling Data Package was submitted on November 6, 1991. The third round of sampling is currently in progress and should be completed by the end of February. The estimated date for submission of the draft Phase III Ground Water Report to the USEPA is October 1992.

(b) RFI Phase II Soils Sampling And Analysis:

The field sampling effort was completed on 27 September 1990. The chemical and physical analyses are completed. The estimated date for submission of the draft Phase II Soils Report to the USEPA is late February 1992.

13. **SITE: COMPRESSED GAS CYLINDER SITE - SWMU #31/00**

(a) **Newly Identified SWMU:**

A report was submitted by the Navy on 12 June 1990. On 29 June 1990 the USEPA approved the Interim Measure and requested the removal be documented in a detailed report. On 13 September 1990 the Navy submitted the Interim Measure Report, documenting the removal of the gas cylinders, to the USEPA for review. A visual inspection indicated no soil contamination. The USEPA approved the corrective measure complete on 07 January 1991. The Navy will modify the permit.

14. The fourth Technical Review Committee (TRC) Meeting was held at NWSCC on 08 January 1991. The following federal, state, and local agencies and organizations were represented at the meeting:

NWSCC

Northern Division, Naval Facilities Engineering Command
 Crane Army Ammunition Activity
 U.S. Army Corps of Engineers, Waterways Experiment Station
 U.S. Army Corps of Engineers, Wilmington District, NC
 U.S. Army Corps of Engineers, Louisville District, KY
 Donohue and Associates
 U.S. EPA
 U.S. Fish & Wildlife Service
 Monroe County
 Daviess County

The Indiana Department Environmental Management; the Indiana Department of Natural Resources; the U.S. Army Armament, Munitions, and Chemical Command; Padanaram/Imperial Lumber; Martin County; Greene County; Lawrence County; City of Bedford, and the City of Bloomfield were not represented at the meeting. The following SWMUs were discussed: ABG, OBP, Load & Fill Area, Pyrotechnic Test Area, Mine Fill A, and Mine Fill B.

The next TRC meeting is scheduled for 16 April 1992, 9:00 AM, in Building 1 at NWSCC.

15. The projected work to be performed for the next reporting period is as follows:

- (a) Preparation of the report for the second dye trace test for the Beech Creek Aquifer.
- (b) The following fieldwork is scheduled: DBG (SWMU #02/11), Rookeye (SWMU #10/15), DEMO (SWMU #06/09), ORR (SWMU #07/09), PCA (SWMU #09/05), OBP (SWMU #05/03), MG (SWMU #04/02), ABG (SWMU #03/10), MGBG (SWMU #01/12)

(c) Preparation and submission of the following reports:

1. RFI Phase II, Soil Report - Draft
Rockeye - SWMU # 10/15 (est 2/92)
Old Burn Pit - SWMU # 05/03 (est 2/92)
McComish Gorge - SWMU # 04/02 (est 3/92)
2. RFI Phase III, Part I, Soil Report - Draft
Ammunition Burning Ground - SWMU # 03/10 (est 3/92)
3. RFI Phase III, Groundwater Report - Draft
Ammunition Burning Ground - SWMU # 03/10 (est 4/92)
4. RFI Phase II, Groundwater Report - Final
Dye Burial Ground - SWMU # 02/11 (est 3/92)
5. RFI Phase I, EMR - Final (est 3/92)
Load & Fill Building 106 Pond - SWMU # 08/17
Mine Fill A - SWMU # 12/14
Mine Fill B - SWMU # 13/14
Pyrotechnic Test Area - SWMU # 19/00
6. RFI Phase I, EMR's - Draft (est 3/92)
Sanitary Landfill/Lithium Battery - SWMU # 14/00
Roads & Grounds Area - SWMU # 15/06
Cast High Fill Explosive Area - SWMU # 16/16

(d) TRC meeting scheduled for April 16, 1992.