



DEPARTMENT OF THE NAVY
NAVAL WEAPONS SUPPORT CENTER
CRANE, INDIANA 47522-5000

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IN REPLY REFER TO:
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8 MAY 1991

U.S. Environmental Protection Agency
Region V
Attn: Ms. Carol Witt-Smith (5HR-13)
230 South Dearborn Street
Chicago, IL 60604

Dear Ms. Witt-Smith:

Submitted for review is the third RCRA Facility Investigation (RFI) Progress Report, covering February 1, 1991 through April 30, 1991. The requirement for submittal of this report was set forth in the Corrective Actions portion of the Hazardous Waste Part B Permit issued to Naval Weapons Support Center Crane (NWSCC) in January 1990.

NWSCC point of contact is Mr. Jim Hunsicker, Code 095, telephone 812-854-3233. Northern Division, Naval Facilities Engineering Command (NORTHNAVFACENGCOM) point of contact is Mr. Byron Brant, Code 1423/BB, telephone 215-897-6280.

Sincerely,

J.D. FARRIS
Acting Facility Works Officer
Commanding Officer

Encl:

- (1) Third RFI Progress Report, February 1, 1991 through April 30, 1991
- (2) Certification Statement

Copy to:

NORTHNAVFACENGCOM, Philadelphia (Code 1423/BB)
COMNAVSEASYSOM (SEA 654E)
USAE-WES, BILL MURPHY (GG-YH)
USAE-WILMINGTON, BOB MAGEE (EN-GG)

**THIRD RFI PROGRESS REPORT
01 FEBRUARY 1991 - 30 APRIL 1991
NAVAL WEAPONS SUPPORT 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 (February through April, 1991).

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

3. **SITE: AMMUNITION BURNING GROUND (ABG) - SWMU: #03/10**

(a) RFI Phase III Ground Water:

A third dye trace of the Beech Creek Aquifer is planned. The test is scheduled for early Summer 1991. The estimated date for submission of the draft Phase III Ground Water Report to the USEPA is September 1991.

(b) RFI Phase II Surface Water:

The first round of surface water sampling is scheduled for August 1991. The estimated date for submission of the draft Phase II Surface Water Report to the USEPA is April 1992.

(c) RFI Phase III Soils Sampling And Analysis:

Field Work: The Part 1 field work was completed on 22 August 1990. The chemical analysis is complete (organics, explosives, pesticides/herbicides, pcb's, and inorganics). The physical analysis is also complete (sieve/hydrometer analysis, water content, Atterberg limits, organic content).

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 15 June 1991. The Part 2 soils effort will commence upon satisfactory review of the Part 1 findings.

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

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

On 07 January 1991 the USEPA approved the Draft Interim Measure Work Plan for the Dye Burial Grounds Source Location. The geophysical study was conducted 23-27 January 1991. The internal draft report has been submitted to the Navy and is currently being reviewed. A draft report will be submitted to the USEPA in the near future.

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

The Final 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.

(c) **RFI Phase III Ground Water:**

Ground water monitoring wells have been installed. The first round of quarterly ground water sampling was completed in March 1991. A Data Package with the first round ground water sampling data will be submitted in June 1991. The second round of sampling is scheduled for mid May 1991. The estimated date for submission of the draft Phase III Ground Water Report to the USEPA is July 1992.

5. **SITE: ROCKEYE - SWMU: #10/15**

(a) **RFI Phase III Ground Water:**

The ground water monitoring well installation has been completed. The first round of ground water sampling was completed in March 1991. A Data Package with the first round ground water sampling data will be submitted in June 1991. The second round of sampling is scheduled for mid May 1991. The estimated date for submission of the draft Phase III Ground Water Report to the USEPA is July 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 mid July 1991.

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

(a) RFI Phase II Ground Water:

The monitoring well installation has been completed. Thirty one of the 49 identified wells in the Demolition Area/Old Rifle Range were sampled from 26 November to 02 December 1990. Accelerated open detonation at the Demolition Area and deer hunting on weekends at the NWSC Crane during the sampling period prevented sampling of all of the wells. The remaining wells were sampled in March 1991. A Data Package with the first round ground water sampling data will be submitted in June 1991. The second round of sampling is scheduled for mid May 1991. The estimated date for submission of the draft Phase II Ground Water Report to the USEPA is March 1992.

7. SITE: OLD RIFLE RANGE (ORR) - SWMU: #07/00

(a) RFI Phase III Ground Water:

The field effort has been completed and those wells which were not sampled in the late fall of 1990 (see paragraph 6. (a) above) were sampled in March 1991. A Data Package with the first round ground water sampling data will be submitted in June 1991. The second round of sampling is scheduled for mid May 1991. The estimated date for submission of the draft Phase III Ground Water Report to the USEPA is April 1992.

(b) RFI Phase II Soils Sampling And Analysis:.

Field work and laboratory analysis has been completed. The internal draft of the Phase II Soils Sampling Report has been reviewed by the Navy. The estimated date for submission of the draft Phase II Soils Report to the USEPA is 3 May 1991.

8. 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 is mid July 1991.

(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.

(c) RFI Phase III Ground Water:

The Navy requested and was granted an extension to the submission date of the Phase III Ground Water Work Plan. The extension was granted on 26 March 1991 and the new due date for the draft work plan is 01 August 1991.

9. 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 is mid July 1991.

(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 requested and was granted an extension to the submission date of the Phase III Ground Water Work Plan. The extension was granted on 26 March 1991 and the new due date for the plan is 01 August 1991.

10. 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.

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

(a) RFI Phase II Soils and Ground Water:

The Navy requested and was granted an extension to the submission date of the Phase II Soils Sampling Plan. The extension was granted on 13 December 1990 and the due date for the Phase II Soils and Phase II Ground Water Draft Work Plans is 18 May 1991. One work plan will be submitted for both the Phase II Soils and Phase II Ground Water work. The Navy is presently preparing the work plan with the support of the Navy's technical experts in chemical weapons and radiation: (1) Radiological Affairs Support Office (RASO), Naval Ordnance Station, Indian Head, MD; (2) Ordnance Environmental Support Office (OESO).

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

(a) RFI Phase II Soils:

The Phase II Soils Draft Work Plan was submitted to the USEPA on 22 March 1991 for review.

(b) RFI Phase III Ground Water:

An internal draft of the Phase III Ground Water Work Plan was submitted to the Navy and is currently being reviewed. It is currently planned to be submitted as an Addendum to the Phase II Soils Work Plan.

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13. The first Technical Review Committee (TRC) Meeting was held at NWSCC on 02 April 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 Armament, Munitions, and Chemical Command
U.S. Army Corps of Engineers, Waterways Experiment Station
U.S. Army Corps of Engineers, Wilmington District, NC
U.S. EPA
U.S. Fish and Wildlife Service
Indiana Department of Environmental Management
Indiana Department of Natural Resources
Monroe County
Greene County
City of Bedford, IN

Daviess County, Lawrence County, Martin County, the City of Bloomfield, and Padanaram/Imperial Lumber were not represented at the meeting. The meeting was basically an introduction to NWSCC, the Installation Restoration Program, the RCRA Permit for NWSCC, and the Corrective Action Phases and Requirements for NWSCC.

The next TRC meeting is scheduled for 16 May 1991, 9:00 AM, in Building 1 at NWSCC. The meeting will consist of a site visit to the Solid Waste Management Units and a presentation of the current and impending soils and ground water work for NWSCC.

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

- (a) The third dye trace test of the Beech Creek Aquifer.
- (b) Preparation of the report for the second dye trace test for the Beech Creek Aquifer.
- (c) The second round of ground water sampling for the: DBG (SWMU #02/11), Rockeye (SWMU #10/15), DEMO (SWMU #06/09), and ORR (SWMU #07/00).
- (d) Phase II Soils sampling and analyses for PCA (SWMU #09/05).
- (e) Preparation and submission of the RFI Phase II Soils Reports for Rockeye (SWMU #10/15), MG (SWMU #04/02), and OBP (SWMU #05/03); and the RFI Phase III, Part A, Soils Report for ABG (SWMU #03/10).

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- (f) Preparation and submission of the RFI Phase II Soils and Ground Water Work Plan for MGBG (SWMU #01/12); preparation and submission of the RFI Phase III Ground Water Work Plan for PCA (SWMU #09/05); preparation of the RFI Phase III Ground Water Work Plans for OBP (SWMU #05/03) and MG (SWMU #04/02).
- (g) The second TRC meeting.

Prepared by:

Byron Brant
Remedial Project Manager
Northern Division,
Naval Facilities Engineering Command

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



SIGNATURE

Acting Public Works Officer

8 MAY 1991

TITLE

DATE

Enclosure (2)