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**ON SCENE COORDINATOR (OSC) REPORT**

**BUILDING 43**

**REMOVAL ACTION**

**MOUND PLANT  
MIAMISBURG, OHIO**

**September 1999**

**Draft Proposed Final**

**(Revision 0)**



**Department of Energy**



**Babcock & Wilcox of Ohio**

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## **EXECUTIVE SUMMARY**

Building 43 served as a laboratory for the development of energetic thermite materials and detonators. The Core Team, consisting of representatives of DOE/MEMP, USEPA, and OEPA recommended a RESPONSE ACTION for Building 43. The objective identified for this removal action was the dismantlement, demolition, and removal of Building 43. This removal action achieved its objective.

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## **1 SUMMARY OF EVENTS**

### **1.1 SITE CONDITIONS AND BACKGROUND**

Building 43 was constructed in 1970 in an area know as the lower valley to replace and enlarge the explosive processing facility maintained by Building 1. This need became obsolete; Building 43 then served as a laboratory for the development of energetic thermite materials and detonators. Figure 1 shows the location of Building 43.

Building 43 is a one-story, 1516 square-foot, reinforced concrete structure. The roof is of built-up membrane (asphalt). Figure A-1 is a photograph of Building 43.

On November 19, 1997, the Core Team consisting of representatives of DOE/MEMP, USEPA, and OEPA recommended a RESPONSE ACTION for Building 43.<sup>1</sup> This recommendation was available for public review and comment from January 15 to February 15, 1998. On October 21, 1998, the Core Team signed the Action Memorandum<sup>2</sup> for Building 43. This was available for public review and comment from October 28 to November 30, 1998.

Since the DOE is the sole responsible party for the cleanup of contamination in Building 43, no other Potentially Responsible Parties (PRPs) were sought to clean up the site.

### **1.2 ORGANIZATION OF THE RESPONSE**

Table 1 lists the groups responding to this Action, and their responsibilities.

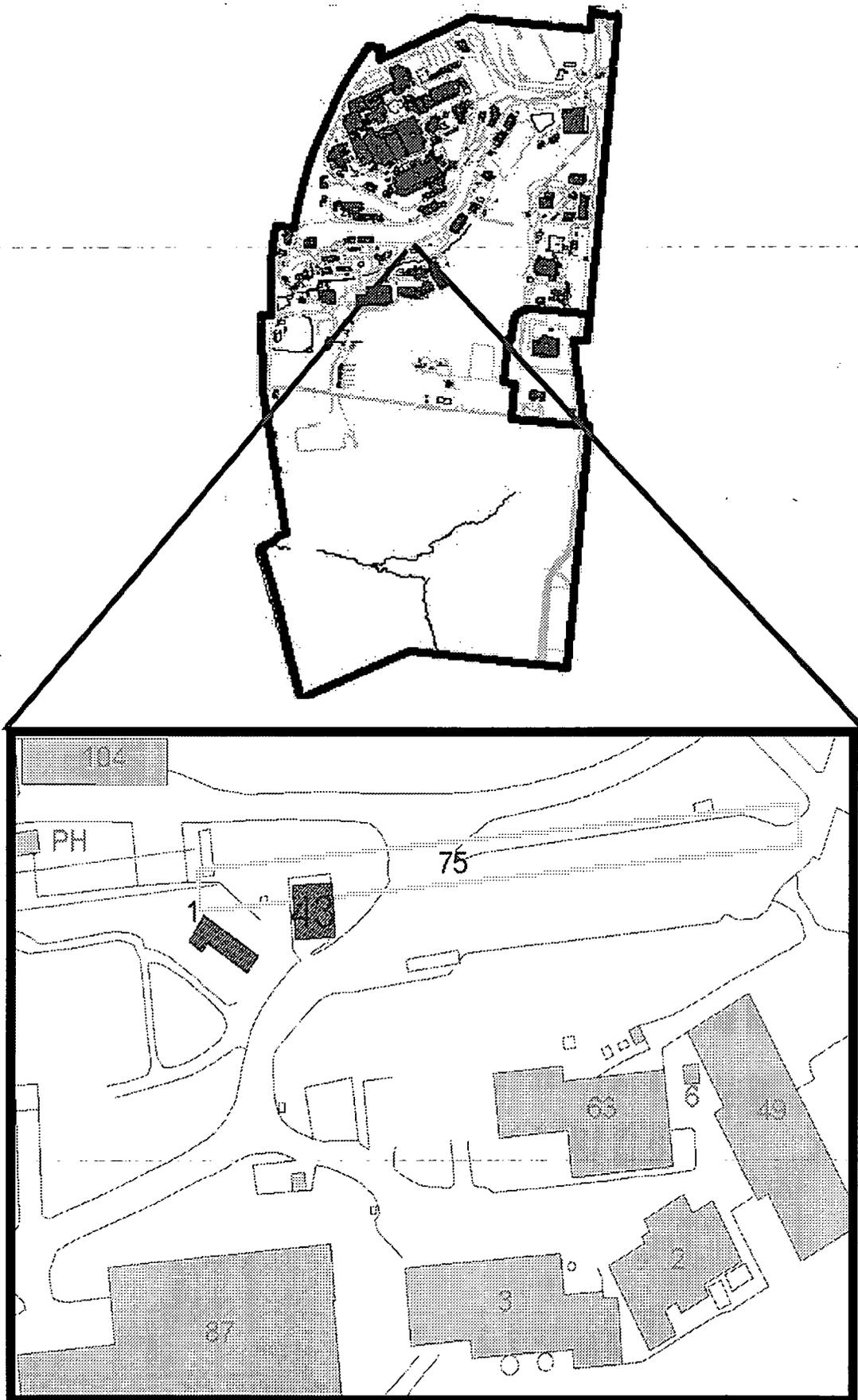


Figure 1. Location of Building 43

**Table 1. Organization of the Response**

<b>Agencies or Parties Involved</b>	<b>Contact</b>	<b>Description of Participation</b>
US EPA SFR-5J 77 W. Jackson Chicago, IL 60604 312-886-2000	Tim Fischer	Federal agency responsible for response oversight.
Ohio EPA 401 E. Fifth St. Dayton, OH 45402-2911 937-285-6357	Brian Nickel	State agency responsible for response oversight.
DOE-MEMP P.O. Box 66 1 Mound Road Miamisburg, OH 45343-0066 937-865-4020	Art Kleinrath	Lead agency for the response.
BWO 1 Mound Road Miamisburg, OH 45343-3030 937-865-4020	Joe Bartee	Performed planning and field work for the response. Provided the OSC with technical assistance, administrative support, photo (see Appendix A) and site documentation, and preparation of OSC report.

**1.3 OBJECTIVES**

The Action Memorandum/Engineering Evaluation/Cost Analysis<sup>2</sup> identified the objective of this removal action as the dismantlement, demolition, and removal of Building 43. No verification sampling was required to verify the completion of the removal action. The photographs in Appendix A document the completion of the removal action.

## 1.4 CHRONOLOGICAL NARRATIVE OF RESPONSE ACTIONS

The following is a chronological narrative of events, as they occurred for the Building 43

Removal Action:

- 1970: Building 43 was constructed.
- November 1989: Mound Plant is placed on the National Priorities List (NPL).
- November 1997: Core Team designates Building 43 for RESPONSE ACTION.
- January 1998: The RESPONSE ACTION recommendation starts formal public review period.
- August 1998: The "Work Plan for Removal of Buildings 1 and 43" was completed. The demolition of Building 43 was planned as a CERCLA removal action. The demolition of Building 1 was planned as a non-CERCLA demolition project. The proximity of the buildings and similarity in field work lead to the decision to demolish these buildings under one Work Plan.
- October 1998: Action Memo/Engineering Evaluation/Cost Analysis for Building 43 released for formal public review and comment.
- December 1998: The demolition project area was fenced off. Asbestos abatement was completed. The domestic and fire water systems were isolated. Glycol was drained from sprinkler system. Lock Out/Tag Out of electrical services was completed.

January 1999: Removed the telephone line and electrical feeder to the building. Demolition of Building 43 started on January 19, 1999. By January 21, Building 43 was demolished. See Photo A-5 in Appendix A.

February 1999: The slab for Building 43 was removed. As noted in the Building Data Package<sup>1</sup>, an oil stain was observed on the floor in Room #4. The soil beneath the slab was not stained. As stated in the Action Memo<sup>2</sup>, verification sampling was not required for this removal action. The commitment was made in the Action Memo<sup>2</sup> to document the results of routine or characterization data in this OSC report. Soil samples were taken from the approximate location of the building corners. The results (soil analysis reports) are included in Appendix B and will be added to the PRS 75 package.

## 1.5 RESOURCES COMMITTED

Table 2 summarizes the disposition of materials from the demolition of Building 43. The cost summary for the removal action is in Table 3.

**Table 2. Materials and Disposition**

Waste Type	Volume (cy)	Destination
Asbestos	20	Koogler, Stony Hollow
Light Ballasts	0.1	Laidlaw Environmental
Glycol	0.07	Laidlaw Environmental
Construction Debris	60	Koogler, Stony Hollow
Scrap Metal for Recycle	160	Franklin Iron & Metal
Concrete Debris (non-rad)	300	Spoils area at Mound
<b>Total</b>	<b>1030.38</b>	

**Table 3. Removal Project Cost Summary**

<b>Activity</b>	<b>Cost (\$)</b>
Work Planning	28,000
Safe Shutdown	42,700
Characterization	4,700
Decontamination & Decommissioning	42,000
<b>Total</b>	<b>\$117,400</b>

## **2 EFFECTIVENESS OF THE REMOVAL ACTION**

### **2.1 ACTIONS TAKEN BY MOUND PERSONNEL**

BWO personnel planned and performed the site demolition and dismantlement, on-site transportation and staging of debris and site restoration. The objectives of the removal action were achieved.

### **2.2 ACTIONS TAKEN BY LOCAL, STATE, AND FEDERAL AGENCIES**

DOE/MEMP was the lead agency for the removal action. US EPA, and OEPA had oversight responsibility for the removal action.

### **2.3 ACTIONS TAKEN BY CONTRACTORS**

Not applicable for this action.

### **3 DIFFICULTIES ENCOUNTERED**

#### **3.1 ITEMS THAT AFFECTED THE RESPONSE**

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Not applicable for this removal action.

#### **3.2 ISSUES OF INTERGOVERNMENTAL COORDINATION**

There were no issues of intergovernmental coordination.

## **4 RECOMMENDATIONS**

### **4.1 ~~MEANS TO PREVENT A RECURRENCE OF THE DISCHARGE OR RELEASE~~**

This removal action was part of the remediation and closure of the Mound Plant. Building 43 was removed.

## 5 REFERENCES

The following reports and documents are pertinent to the removal action and can be found in the CERCLA public reading room at the Miamisburg Senior Adult Center; 305 Central Avenue, Miamisburg or by contacting Arthur Kleinrath, On-Scene Coordinator for Building 43 Removal Action, at 937-865-3597.

1. "Building Data Package Building 43," Final March, 1998.
2. "Action Memorandum/Engineering Evaluation/Cost Analysis, Building 43," Final, October 1998.