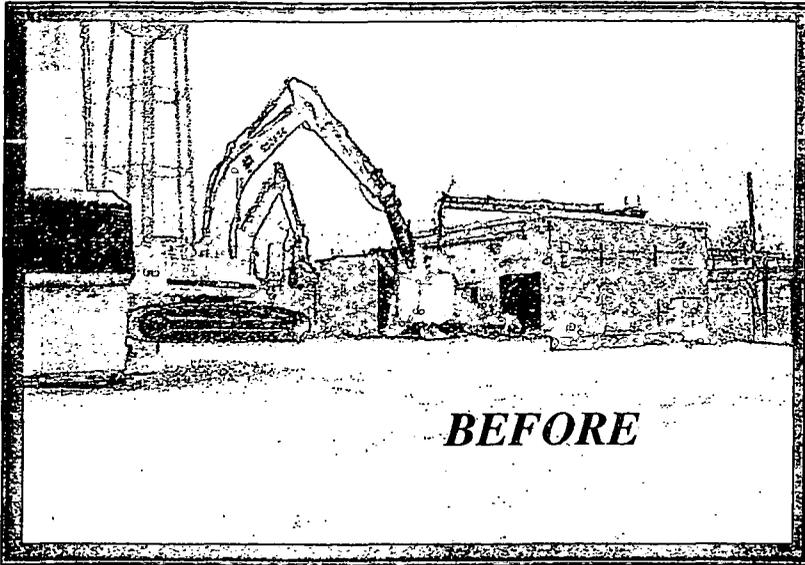


SM/PP Hill Project

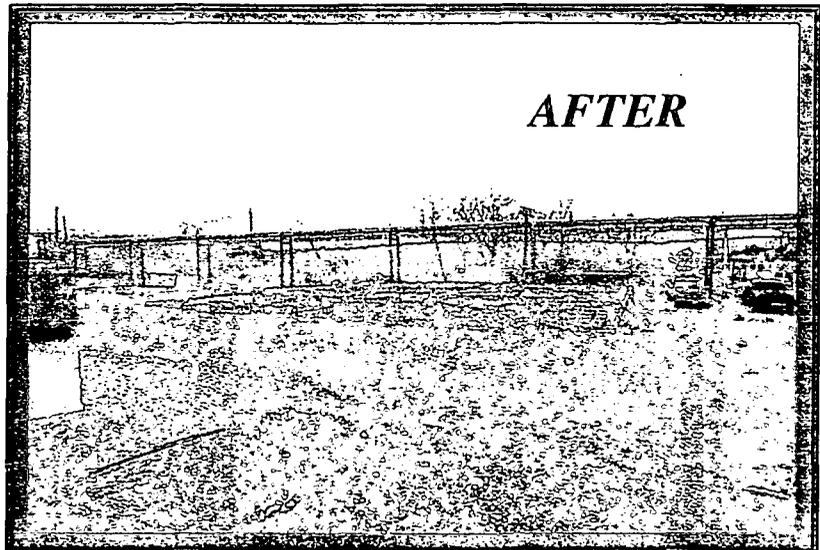
FINAL CLOSE OUT REPORT

Demolition of Building 33



**MOUND PLANT
Miamisburg, Ohio**

JUNE 30, 1998



Babcock & Wilcox of Ohio, Inc.



Department Of Energy



BWX Technologies, Inc.

Babcock & Wilcox, a McDermott company

Babcock & Wilcox of Ohio, Inc.

1 Mound Road
P.O. Box 3030
Miamisburg, Ohio 45343-3030
(937) 865-4020

ESC-173/98

July 8, 1998

98-TC/7-08

Director, Miamisburg Environmental Management Project
U.S. Department of Energy
P.O. Box 66
Miamisburg, OH 45343-0066

ATTENTION: Dewain Eckman

SUBJECT: Contract No. DE-AC24-97OH20044
**FINAL CLOSE OUT REPORTS ON DEMOLITION OF BUILDING
33, GUARD POST 44, AND MAGAZINE 53**

REFERENCE: Statement of Work Requirement C 7.1 -- Regulator Reports

Dear Mr. Brown:

Attached are the Final Reports on the demolition of Building 33, Guard Post 44, and Magazine 53. These reports provide summary information on the successful demolition of these buildings and complete these efforts.

The release of these documents to USEPA, OEPA, and ODH has been authorized by Paul Lucas of MEMP.

**Page 2 FINAL CLOSE OUT REPORTS ON DEMOLITION OF BUILDING 33, GUARD
POST 44, AND MAGAZINE 53**

Please advise if additional copies are required for distribution within DOE. If you require further information, please contact Dave Rakel at extension 4203.

Sincerely,



Linda R. Bauer, Ph.D.
Department Manager, Environmental Safeguards & Compliance

LRB/nmg

Enclosures as stated

cc: T. Fischer, USEPA, (1) w/attachment
J. Raines, TechLaw, (1) w/attachment
B. Nickel, OEPA, (1) w/attachment
K. Fox, OEPA, (1) w/attachment
R. Beaumier, OEPA, (1) w/attachment
R. Vandegrift, ODH, (1) w/attachment
T. Tracy, DOE/HQ, (1) w/attachment
O. Vincent, DOE/MEMP, (1) w/attachment
S. Cheng, DOE/MEMP, (2) w/attachment
R. Bauer, B&W, (1) w/attachment
G. Maul, B&W, (1) w/attachment
F. Spittler, B&W, (1) w/attachment
✓Public Reading Room, (5) w/attachment
DCC, w/o attachment

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Executive Summary

This is the final report documenting the demolition of the Building 33 structure, as initially defined in the Building Data Package (BDP) introduced in December 1997. Demolition was completed in March 1998. This documentation serves as the record of the demolition action and reports final costs, schedule, waste disposition the information, method of demolition, and any unusual findings. Photographs and references to other related documents are also included.

Constructed in 1965, Building 33 served as a maintenance support facility for its entire existence. It was a one-story, 1,344 square-foot concrete block, slab on grade structure with an asphalt built-up membrane roof. The SM/PP Hill Project demolished the building, but not the concrete pad as per the Work Plan, dated January 1998.

All preparation and demolition activities were performed in accordance with this Work Plan to include structure characterization, safe shutdown, utilities isolation, site access control, interior decontamination and demolition requirements (to include contaminant abatement), structure demolition, and debris removal. Approximately five (5) cubic feet of radioactively contaminated concrete was removed from the Building 33 Annex. The storage shed located south of the building was included in the demolition process.

The Building 33 structure was successfully demolished. The remaining slab and foundation of the building are left in place until a later date. Due to radiologically contaminated soil adjacent to the south side of the building, the below grade removal of the slab and foundation can be most efficiently accomplished in the future after Building 38 has been dismantled as noted in the Building Data Package and the Work Plan.

It is recommended to the Department of Energy, that the scope of work relating to this structure be considered complete.

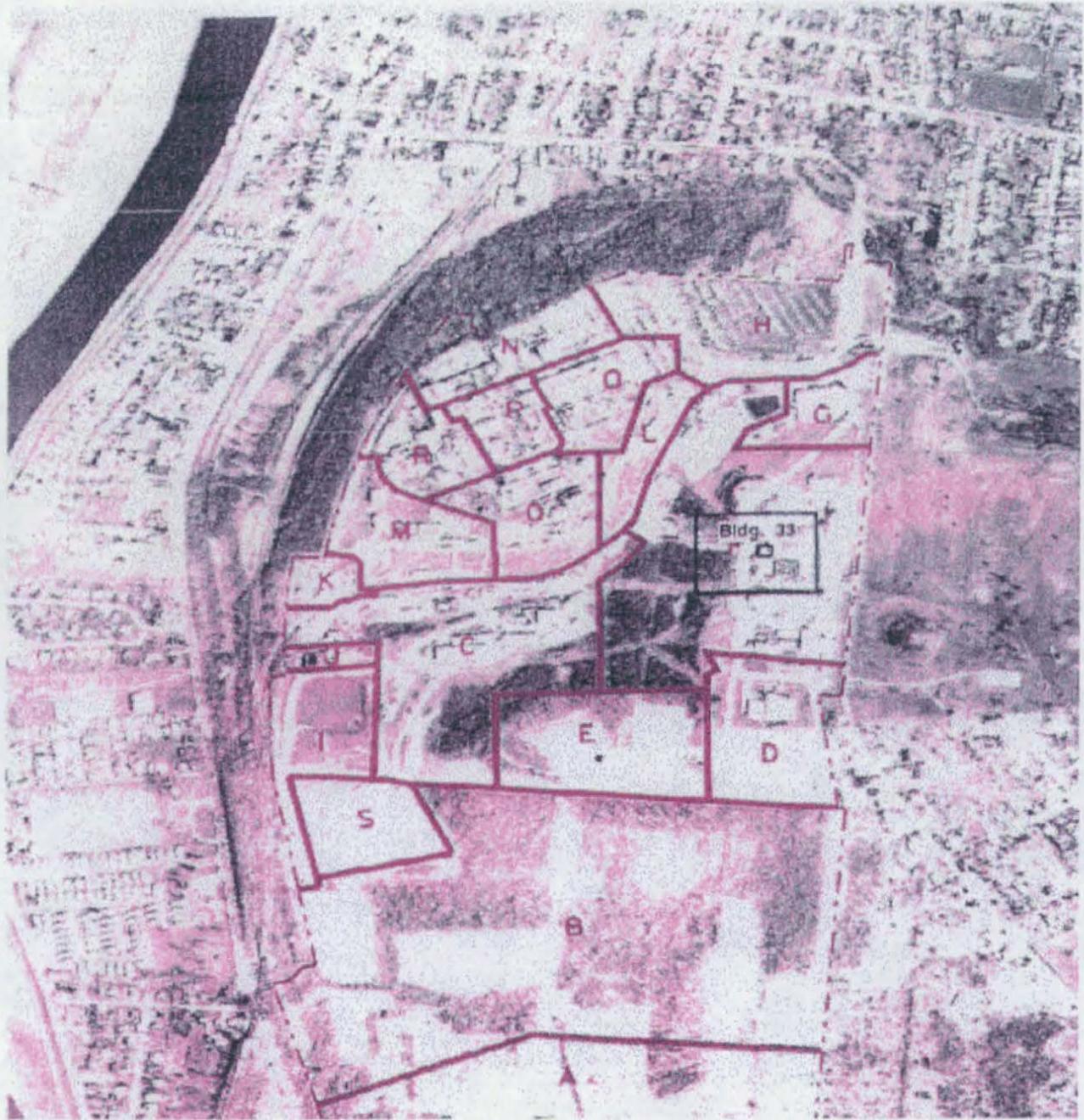


Figure 1. Mound Plant Site Location

Mound Plant

Building 33
Old SM Area Maintenance Shop
(D&D Storage)

Release Block F

On the map below:

- Building number and location shown in black
- Surrounding buildings shown in green
- Fencing shown in red
- Elevation contours shown in brown

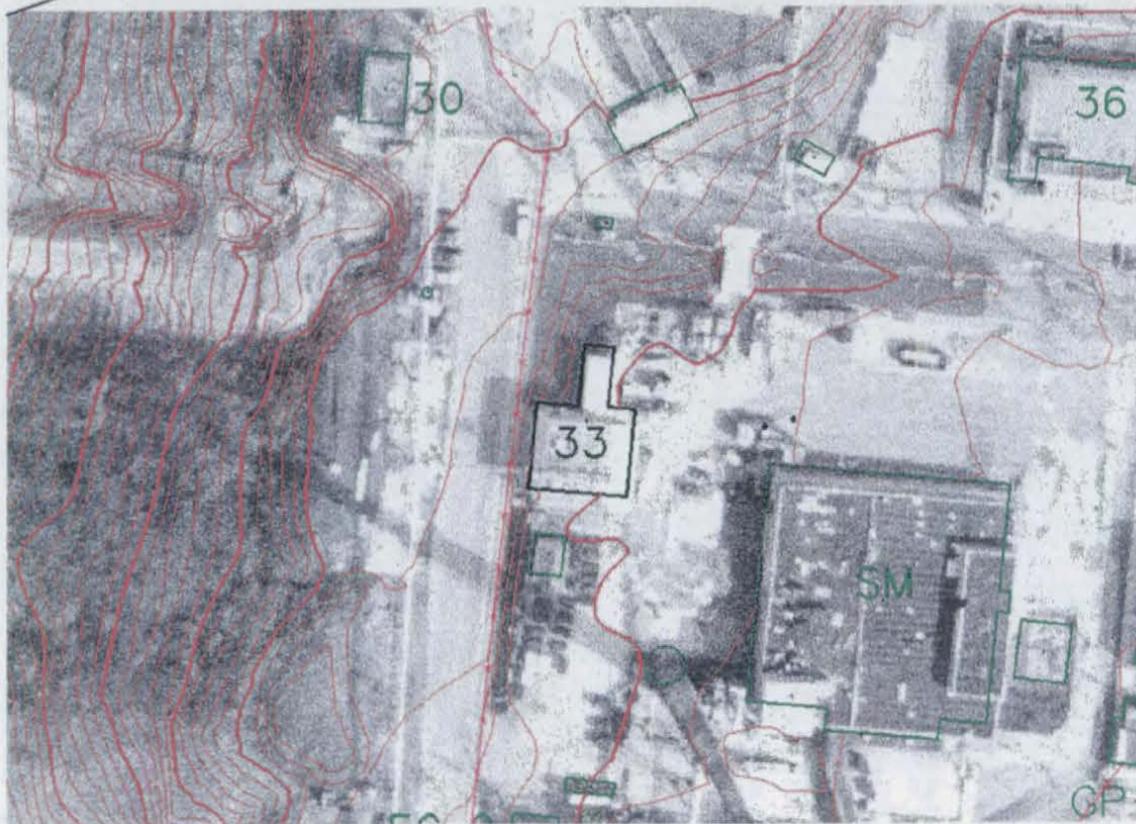
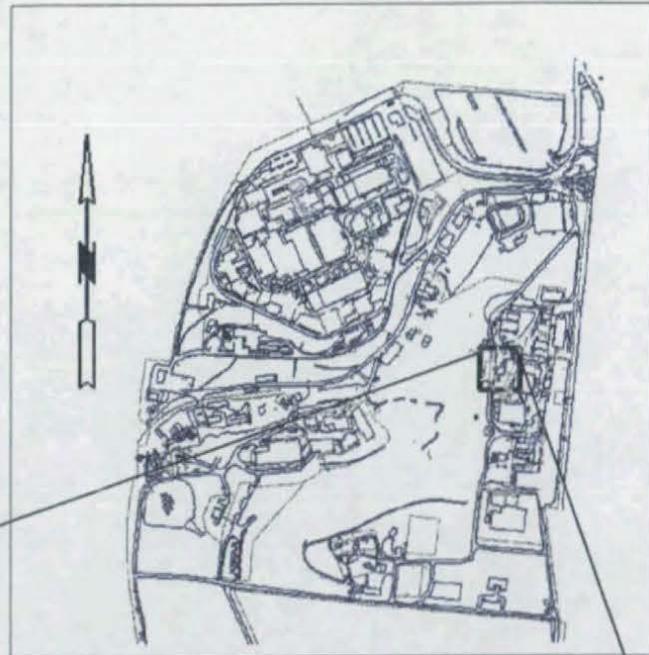


Figure 2. Demolition Site Location

1.0 SUMMARY OF EVENTS

1.1 Objectives of Demolition Activities

The Building 33 structure was removed in support of the Mound Plant Exit Project. The removal was accomplished as a non-CERCLA demolition as noted by the Building Data Package (BDP) and detailed in the general *Work Plan for Building 33 Decontamination and Demolition at the Mound Site, Miamisburg, Ohio, January 1998, Revision 1/21/98*, found also as Appendix 6.9 of the BDP. Note: Figures 1 and 2 for Mound Plant and Building 33 locations. The Work Plan gives detail of the planning and conduct of operations.

1.2 Personnel Organization For The Demolition

See Table 1, Personnel Organization for the Demolition.

Table 1. Personnel Organization for the Demolition

Agencies or Parties Involved	Contact	Description of Participation
US EPA HSRM-6J 77 W. Jackson Chicago, IL 60604	Tim Fischer 312-886-5787	Federal agency responsible for site oversight.
Ohio EPA 410 E. Fifth Street Dayton, OH 45402-2911	Brian Nickel 937-285-6468	State agency responsible for site oversight.
DOE/MEMP P.O. Box 66 1 Mound Road Miamisburg, OH 45343-0066	James Johnson 937-865-5234	DOE Project Manager responsible for project oversight and success.
B&W Of Ohio SM/PP Hill Project P.O. Box 3030 1 Mound Road Miamisburg, OH 45343-3030	Felix Spittler 937-865-3891	Provided the DOE Project Manager with technical assistance, administrative support, sampling, photo and site documentation, site safety, and report preparation.
B&W of Ohio General Superintendent and Equipment Manager P.O. Box 3030 1 Mound Road Miamisburg, OH 45343-3030	Rich Higgins 937-865-4400	Provided the personnel and equipment necessary for the demolition

1.3 Chronological Narrative of Key Demolition Activities

- 12 JAN 98 Started Safe Shutdown activities for Building 33.
- 12 JAN 98 Started utilities isolation.
- 21 JAN 98 Completed utilities isolation.
- 26 JAN 98 Started asbestos abatement.
- 29 JAN 98 Completed asbestos abatement.
- 29 JAN 98 Completed Safe Shutdown activities.
- 04 FEB 98 Started demolition activities.
- 05 FEB 98 Completed demolition activities.
- 05 FEB 98 Started debris removal.
- 05 MAR 98 Completed debris removal.

1.4 Listing of Resources Committed

Table 2 shows the materials and their disposition. Table 3 includes the demolition total cost summary.

2.0 EFFECTIVENESS OF THE DEMOLITION

The Building 33 structure was successfully demolished. All field work and laboratory analysis was accomplished by Babcock & Wilcox of Ohio personnel. The concrete slab remains in place to be removed in the future with adjacent soils remediation activities.

Table 2. Materials and Disposition

Material	Quantity	Method	Location
Construction Debris (concrete/masonry)	100 cubic yards	to be crushed later and recycled	Mound site: to be used as fill material.
Construction Debris (metals)	60 cubic yards	recycled	Franklin Metals
Construction Debris (mix/miscellaneous)	150 cubic yards	land fill	Koogler/ Stoney Hollow
Asbestos	1 cubic yard	land fill	Koogler/ Stoney Hollow
Contaminated Concrete (Pu-238)	5 cubic feet	bulk rail car	Envirocare

Table 3. Demolition Project Total Cost Summary

Extramural Costs:	Cost (\$)
Total Supplies and Equipment Costs	3000.00
Total Technical Assistance Team (TAT) Costs	0
Total Laboratory Costs	0
<i>Total OTHER Program Costs</i>	0
EXTRAMURAL SUBTOTAL	3000.00
Intramural Costs:	Cost (\$)
DOE Direct Costs	0
DOE Indirect Costs	66000.00
INTRAMURAL SUBTOTAL	66000.00
Total Cost and Ceiling:	Cost (\$)
TOTAL PROJECT COST	69000.00
PROJECT CEILING	140000.00

3.0 RECOMMENDATION

The Building 33 structure has been demolished and debris removed in accordance with documentation provided to the Mound 2000 Core Team. (See references below.) It is recommended to the Department of Energy that the scope of work relating to this structure be considered complete.

4.0 REFERENCE LIST OF SUPPLEMENTARY DOCUMENTS

Contact Mark Becker, Babcock & Wilcox of Ohio, Public Relations, at (937) 865-4450 to request access to these supplemental documents.

- Building Data Package (BDP) for Building 33
- General Work Plan for Building 33 Decontamination and Demolition at the Mound Site, Miamisburg, Ohio
- Job Safety and Health Analysis

APPENDIX A

PHOTOGRAPHIC DOCUMENTATION



02/04/98 Bldg. 33 demolition, northwest corner *980199





02/19/98 Site of former Bldg. 33 *980368