30 06 0406030008

CH2M HILL
Mound, Inc.
1 Mound Road
P.O. Box 3030
Miamisburg, OH
45343-3030

CH2MHILL

SM-007/03
January 29, 2003

Mr. Richard B. Provencher, Director
Miamisburg Closure Project
U. S. Department of Energy
P. O. Box 66
Miamisburg, OH 45343-0066

ATTENTION: Robert S. Rothman

SUBJECT: Contract No. DE-AC24-03OH20152
I Building On-Scene Coordinator Report, Final

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

Dear Mr. Provencher:

Rob Rothman from your office has approved the release of the following final document to the regulators and the public:

- I Building On-Scene Coordinator Report, Final

If you or members of your staff have any questions regarding the document, or if additional support is needed, please contact Bob Ransbottom at extension 4220.

Sincerely,

K. L. Kehler
SMPP/TFV Project Manager

KLK/DCK:jdg

Enclosures

cc: Tim Fischer, USEPA, (1) w/attachments
Brian Nickel, OEPA, (1) w/attachments
Ruth Vandegrift, ODH, (1) w/attachments
Frank Schmaltz, DOE/MCP, (1) w/attachments
Randy Tormey, DOE/OH, (1) w/attachments
Terry Tracy, DOE/HQ, (1) w/attachments
J. D. Bonfiglio, MESH, (1) w/attachments
Bob Ransbottom, CH2M Hill, (1) w/attachments
Val Darnell, CH2M Hill, (1) w/attachments
Kurt Kehler, CH2M Hill, (1) w/attachments
Public Reading Room, (4) w/attachments
Admin Record, (2) w/attachments
DCC (1) w/attachments

I BUILDING REMOVAL ACTION

OSC REPORT

January 2003

Final

Department of Energy
Miamisburg Closure Project

CH2MHILL

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Acronyms

BWXTO	BWXT of Ohio, Inc.
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	contaminant of concern
CSAP	Confirmation Sampling and Analysis Plan
DOE	Department of Energy
ER	Environmental Restoration
MCP	Miamisburg Closure Project
MOCA	4,4'-methylene-bis(2-chloroaniline)
OEPA	Ohio Environmental Protection Agency
OSC	On-Scene Coordinator
PCB	polychlorinated biphenyl
PRP	Potentially Responsible Parties
PRS	Potential Release Site
RA	Removal Action
RBGV	Risk-Based Guideline Value
SMPP	Special Metallurgical Plutonium Processing
TFV	Test Fire Valley
USEPA	United States Environmental Protection Agency

RECOMMENDATION

The I Building Removal Action was performed at the western flank of the Main Hill, of the Miamisburg Closure Project Plant in the city of Miamisburg, Ohio. This removal action was performed based on possible energetics contamination from historic detonator processing. The removal action resulted in the demolition of I Building and disposal of approximately 10,115 cubic yards of material. All demolition debris and hazardous waste material was sent to Stoney Hill Landfill, and the clean hard fill debris was reused onsite. There were no actual soil contaminants of concern based on historical information or prior analytical data. Soil borings were installed following building demolition and samples were analyzed for common site contaminants. All confirmation sample results were below the cleanup objectives (10^{-5} RBGV plus background).

1/6/03

Rob Rothman, OSC
U.S. Department of Energy
Miamisburg, Ohio

12/30/02

Tim Fischer, RPM
USEPA
Chicago, Illinois

1/6/03

Brian Nickel
OEPA
Dayton, Ohio

1.0 SUMMARY OF EVENTS

This section describes the site background and events leading up to the removal action, parties involved in responding to the removal action, cleanup objective determination, chronological narrative of the removal action, and resources committed to complete the project.

1.1 Site Conditions and Background

Construction of I Building, one of the original buildings at Mound, was completed in 1949. Originally, I Building was a rectangular building encompassing 11,420 square feet, and was located on the western flank of the Main Hill (Figure 1, Appendix A). The location was selected so that it was isolated from other buildings and located on the prevailing windward side of the site. I Building was constructed and initially used as an isolated laboratory housing both the employee radiation exposure monitoring program and the environmental monitoring program, both in support of Mound's polonium processing mission. Subsequently, the building was expanded to include five different additions (to all sides of the original building), with the resulting facility encompassing 25,736 square feet. In 1955, after the health physics laboratories were moved to T Building, I Building became the detonator processing facility in support of the growing detonator manufacturing and test mission activities. These programs involved research in and development of plastics, adhesives, and ceramic materials, including devices containing energetic (explosive) materials. In 1994, I Building was vacated due to discontinuance of the detonator mission. Subsequent to that, it was only used for records storage.

The building footprint was bordered by a sidewalk on the north side, a roadway and Buildings 58 and SW on the east, roadways on the north and west sides, and a concrete pad courtyard on the south. The closest buildings to I Building included Magazines 7 and 11, and B Building (all previously demolished), and Buildings 58 and SW.

I Building had a reinforced concrete frame, concrete floor, and concrete roof. The exterior walls were brick with masonry back-up block. The roof was covered with a four-ply built-up metal insulated roof, covered with a coal tar and carboline membrane. The facility was served by central steam for heating, chilled water for cooling, and electrical service of 480 volts.

The possibility of minor explosives contamination warranted a Removal Action (RA) under CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) and subsequent demolition of I Building. The hazardous materials found in I Building were PCB-containing light ballasts, lead sheeting, and MOCA (4,4'-methylene-bis(2-chloroaniline)) contamination. A complete asbestos abatement was performed in 2001, prior to demolition.

Radiological surveys of the interior and exterior of I Building were performed, and all results met applicable screening criteria.

Associated Potential Release Sites (PRSs) and Previous Investigations. There are four PRSs in the vicinity of the former I Building (Figure 2): 110, 237, 408, and 426, none of which were associated with I Building or its processes. The Core Team binned PRSs 110 and 408 No Further Assessment (NFA), and PRSs 237 and 426 Removal Actions. PRS 426 will be addressed in the "Action Memorandum for Underground Waste Transfer Lines Leading to WD Building," and PRS 237 will be handled separately by the Environmental Restoration (ER) group.

Removal Action. A formal recommendation for a Removal Action of I Building was made by the Core Team on February 11, 2002 when they signed the I Building Action Memorandum. This document was made available for public review and comment from February 13, 2002 to March 12, 2002. Since DOE is the sole responsible party for cleanup of contamination in I Building, no Potentially Responsible Parties (PRPs) were sought to clean up the site. Monsanto Research Corporation, EG&G Mound Applied Technologies, and BWXT of Ohio, Inc. (BWXTO) were the operating contractors at the site from 1948 to 30 September 1988, from 1 October 1988 until 30 September 1997, and from 1 October 1997 until 31 December 2002 respectively. CH2M Hill became the site contractor for the Miamisburg Closure Project (MCP) effective January 1, 2003.

1.2 Organization of the Removal Action

Table 1 (Appendix B) lists the parties responding to the removal action, and their responsibilities.

1.3 Objectives

Documentation Objective. The objective of this On-Scene Coordinator (OSC) Report is to describe the removal action fieldwork, report the confirmation soil sampling results, and document successful completion of the project. Material quantities and disposition locations are presented in Table 2. The cost breakdown of the RA is presented in Table 3.

Cleanup Objectives. There were no actual contaminants of concern (COCs) based on historical information or prior analytical data. A Confirmation Sampling and Analysis Plan (CSAP) was approved by the Core Team and implemented. Per the CSAP, soil samples were analyzed for common site contaminants, and local suspected contaminants. All confirmation sample results were below the cleanup objectives (10^{-5} RBGV plus background). Appendix C provides the supporting analytical data.

1.4 Chronological Narrative of the Removal Action

The following is a chronological narrative of events surrounding the I Building removal action.

1949	I Building construction completed. Building used as Health Physics laboratory for processing radiation exposure monitoring samples, and environmental monitoring samples.

1955	Health Physics operations moved to T Building.
1956	I Building used for detonator processing facility in support of the detonator manufacturing and test mission activities, involving research in and development of plastics, adhesives, and ceramic materials, including devices containing energetic (explosive) materials.
1956	Press Building addition to east side of original building.
1959	Press Building addition to east side of 1956 addition.
1964	Production Plant addition to north side of original building.
1985	Addition to northwest corner of original building, and utilities restoration addition to southeast side of building.
1994	I Building vacated. Used for records storage.
1999	Radiological characterization performed.
2001	Asbestos abatement completed.
11 February 2002	Core Team binned I Building as a Removal Action.
28 February – 18 March 2002	I Building demolition was performed.
19 March – 2 May 2002	I Building slab demolition was performed.
22 April 2002	I Building Confirmation Sampling and Analysis Plan released as Final.
25 April 2002	I Building Confirmation Sampling and Analysis was started and completed.
20 May – 3 June 2002	I Building site restoration was performed. (graded, seeded, and straw applied).
November 2002	OSC Report generated.

2.0 EFFECTIVENESS OF THE REMOVAL ACTION

I Building has been demolished and the debris removed and disposed of. Confirmation soil samples were taken and analyzed. All results are below the cleanup objectives; and required data validation was performed. CSAP results are presented in Appendix C.

Post-demolition radiological surveys of the demolition debris in rolloff containers was performed with all results meeting applicable disposal criteria.

2.1 Actions Taken by Site Contractor

Special Metallurgical Plutonium Processing/Test Fire Valley (SMPP/TFV) project and onsite personnel planned and performed removal action oversight, building dismantlement and demolition, onsite transportation and staging of soil and debris, slab and foundation removal, site restoration, and sampling and analyses. The project met the cleanup objectives. BWXTO personnel prepared the OSC Report, which shows that the Removal Action objectives were achieved.

A BWXT of Ohio, Inc. news announcement was released on 27 February 2002 and is included in Appendix D.

2.2 Actions Taken by Local, State, and Federal Agencies

The Department of Energy/Miamisburg Closure Project (DOE/MCP), the United States Environmental Protection Agency (USEPA), and OEPA had oversight responsibility for the removal action. The DOE/MCP was the lead agency for the RA and provided the funding and oversight for the RA. The USEPA and OEPA had oversight responsibility for the RA and reviewed the CSAP and OSC Report to ensure that the sampling data objectives were met.

A DOE news announcement and "New Directions" newsletter were released in April 2002 and are included in Appendix D. Photographic documentation of the demolition and restored site is presented in Appendix E..

2.3 Actions Taken by Subcontractors

Subcontractors involved in the project included the following:

- Roy F. Weston, Inc., Miamisburg for oversight of drilling subcontractor.
- STL, St. Louis for offsite radiological analyses.

3.0 DIFFICULTIES ENCOUNTERED

3.1 Items that Affect the Removal Action

No difficulties were encountered that affect the removal action.

3.2 Issues of Intergovernmental Coordination

All DOE/OEPA/USEPA interactions were good. The agencies were updated at Core Team meetings and the Mound 2000 Process worked well. Splitting of samples with OEPA went well.

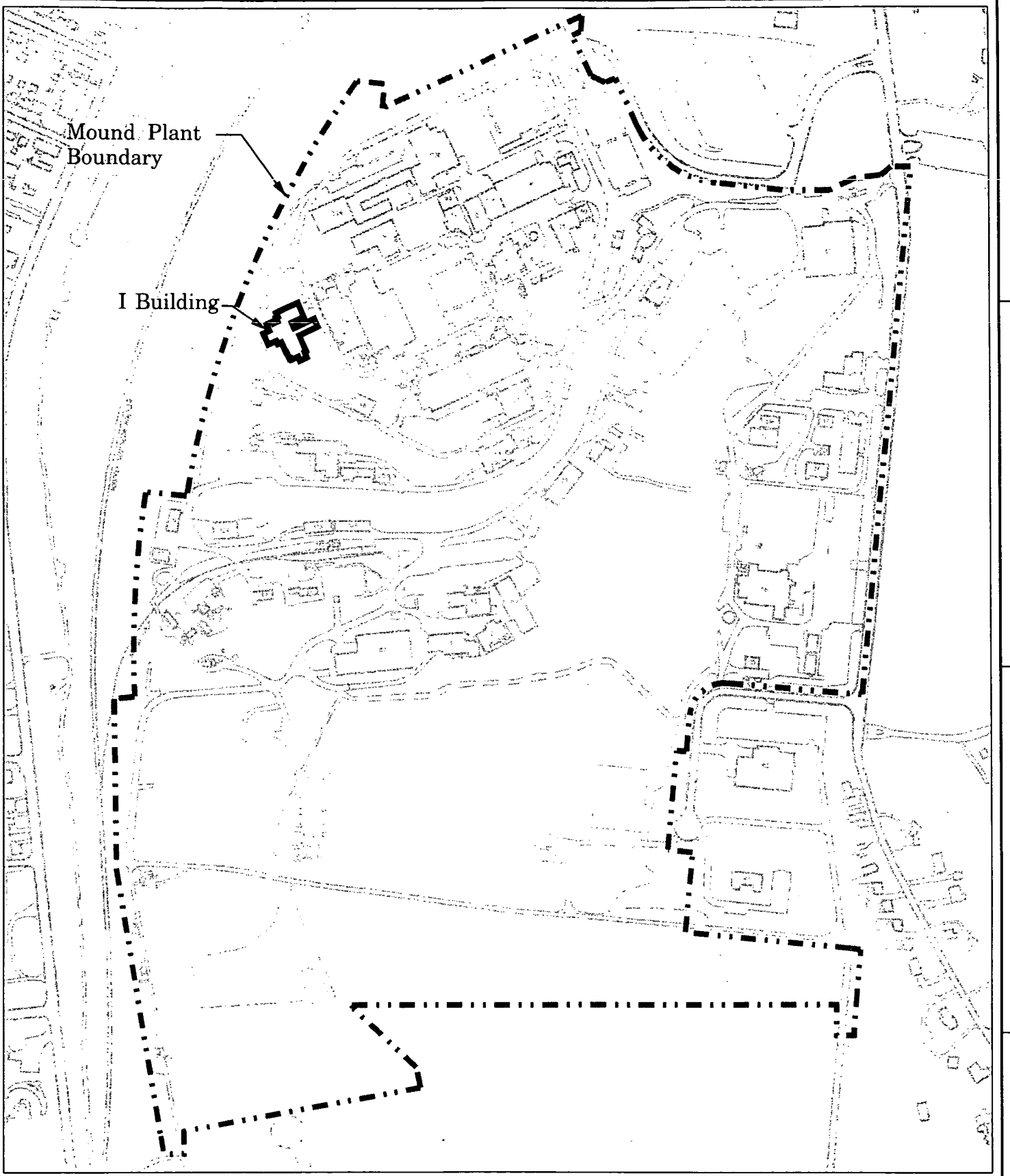
4.0 RECOMMENDATIONS

4.1 Means to Prevent a Recurrence

The building debris was removed and properly disposed of; therefore, the spread of contamination is prevented. This area will be transferred from federal to private ownership. All State and Federal disposal rules will apply.

APPENDIX A

FIGURES



Legend

Structures
Paved roadway
Unpaved roadway
Mound Plant boundary
Railroad

0 100 200 400 600 800 1000
Scale in Feet

ISS	DATE	REVISION	BY	CHKR	ENG	LP&EC	APVD	M
	07/16/02	*	SSF					

MOUND

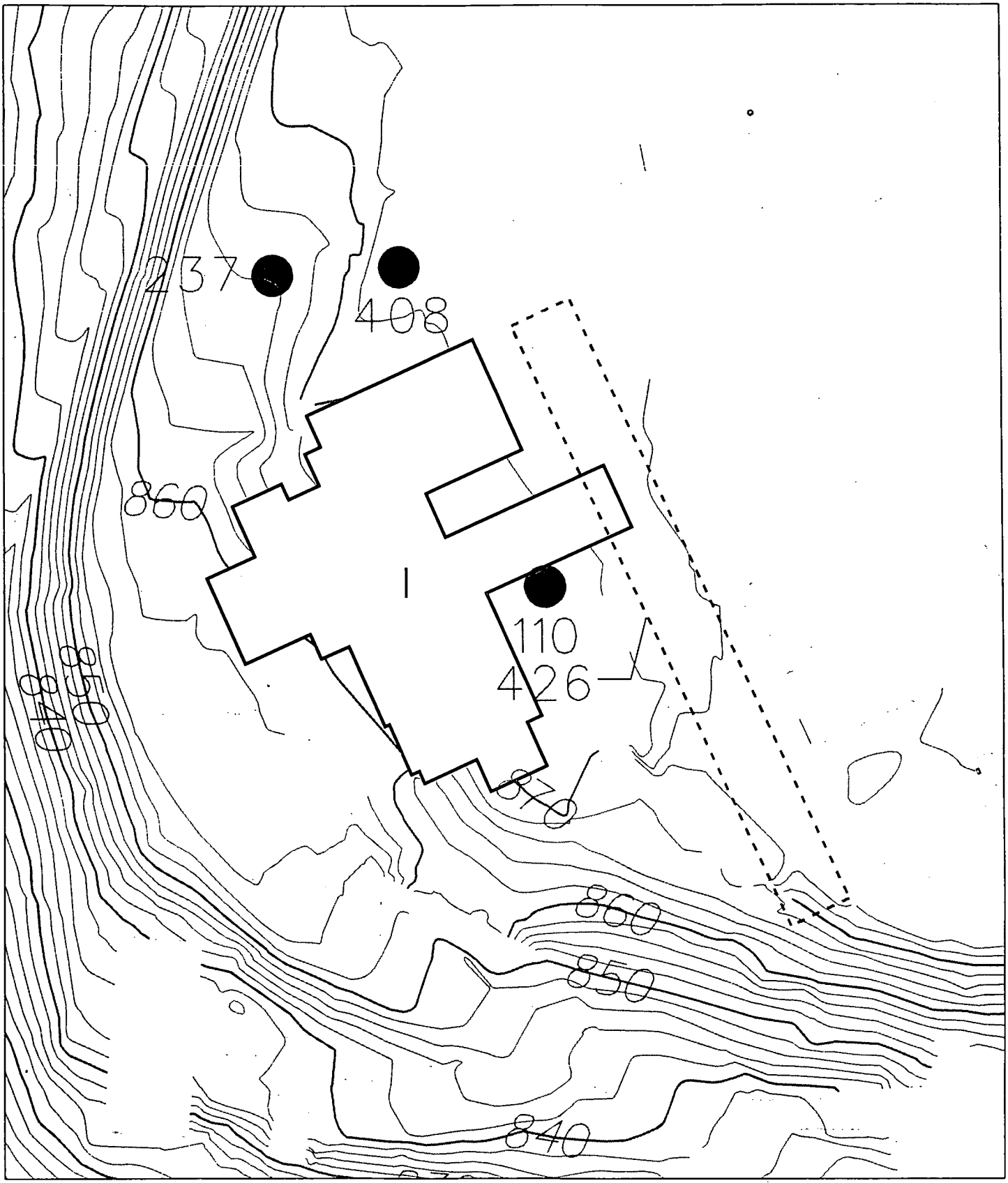
Environmental Restoration Geographic Information System

SHEET	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ISSUE																					
SHEET	1	2	3	4	5	6															
ISSUE																					

PART CLASSIFICATION

Figure 1
Location of I Building

DRAWING CLASSIFICATION: UNCLASSIFIED
SIZE
DRAWING NUMBER: gen_site_plan.dgn
JOB NUMBER
DWG TYPE: STE
PRNG: ER-GIS
CAGEC
SCALE
SHEET 1 OF
STATUS: MD-REL-**/**/**
ORIGIN: MSTATION / J



PRS Point

PRS Area

Contour Line

ISS	DATE	REVISION	BY	CHKR	ENG	LPREC	APVD	II
	12/06/01		SSF					

MOUND

Environmental Restoration Geographic Information System

SHEET	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ISSUE																					
SHEET	1	2	3	4	5	6															
ISSUE	*																				

PART CLASSIFICATION

Figure 2
I Building and Vicinity

DRAWING CLASSIFICATION: UNCLASSIFIED

SIZE | DRAWING NUMBER: vicinity.dgn | JOB NUMBER

ORG TYPE: STE | PRNG: ER-GIS | CAGEC | SCALE | SHEET 1 OF

STATUS: MD-REL-**/**/** | ORIGIN: MSTATION / J

APPENDIX B

TABLES

Table 1: Organization of the Removal Action

USEPA SFR-5J 77 W. Jackson Street Chicago, IL 60604 312-353-2000	Tim Fischer	Federal agency responsible for oversight
OEPA 401 E. Fifth Street Dayton, OH 45402-2911 937-285-6357	Brian Nickel	State agency responsible for oversight
DOE-MCP P.O. Box 66 1 Mound Road Miamisburg, OH 45343-0066 937-865-3597	Rob Rothman	OSC responsible for oversight and success
BWXT of Ohio SMPP/TFV Project 1 Mound Road Miamisburg, OH 45343-3030 937-865-4071	C.D. Thompson	Provide OSC with technical assistance, administrative support, field oversight, sample management, site safety, photo, site documentation, and preparation of the OSC Report

Table 2: Materials and Disposition

Type of Material	Quantity	Disposal Method	Disposal Location
Construction Debris (concrete/masonry)	9,480 cubic yds	Landfill	Stoney Hill
Clean Hard Fill Debris (concrete)	515 cubic yds	Reused	Spoils Area/ Concrete Crusher
Hazardous Waste (asbestos)	120 cubic yds	Landfill	Stoney Hill

Table 3: Removal Cost

Extramural Costs	Cost
Work Planning	$ 65,250
Safe Shutdown	274,500
Characterization	53,100
Decontamination and Demolition	185,000
Historical	33,500
Hauling and Disposal	133,334
Estimated Total Project Cost	**$ 744,684**

APPENDIX C

CONFIRMATION SAMPLE RESULTS

Maximum Results for Confirmation Sampling (pCi/g)

Analyte	Maximum Result	Background	RBGV (10^{-5})	Cleanup Objective
Actinium-227+D	0.53	0.11	4.5	4.6
Americium-241	ND	ND	63	63
Cesium-137+D	ND	0.42	3.4	3.8
Cobalt-60	ND	NA	0.7	0.7
Lead-210+D	0.81	1.2	6.2	7.4
Lead-212	0.53*	1.4[a]	0.7[a]	2.1[a]
Lead-214	0.37*	1.2[b]	1.0[b]	2.2[b]
Plutonium-238	ND	0.13	55**	55**
Plutonium-239/240	ND	0.18	55	55
Potassium-40	14*	37	14.2	51.2
Radium-226+D	1.48	2.0	0.9	2.9
Thorium-228+D	0.6*	1.5	1.1	2.6
Thorium-230+D	0.79	1.9	0.9	2.8
Thorium-232+D	0.75	1.4	0.7	2.1
Tritium	ND	1.6	235,000	235,000
Uranium-233/234	0.813	1.1	4.82	5.93
Uranium-235	0.049	0.11	16.0	16.11
Uranium-238+D	0.873	1.2	1.0	2.2

RBGV: most stringent of construction and office worker scenarios per Risk-Based Guideline Values, March 1997, Final, as performed using April 2001 HEAST slope factors.

* Analytical results for the single sample analyzed by offsite gamma spec.

** 10^{-5} RBGV is 61 pCi/g, but 55 pCi/g is retained due to its familiarity to the public.

[a] Lead-212 is assumed to be in secular equilibrium with thorium-232 and evaluated at the thorium-232 RBGV and background level.

[b] Lead-214 is assumed to be in secular equilibrium with uranium-238 and evaluated at the uranium-238 RBGV and background level.

ND: Non-detect.

NA: Not analyzed for as part of background soils investigation.

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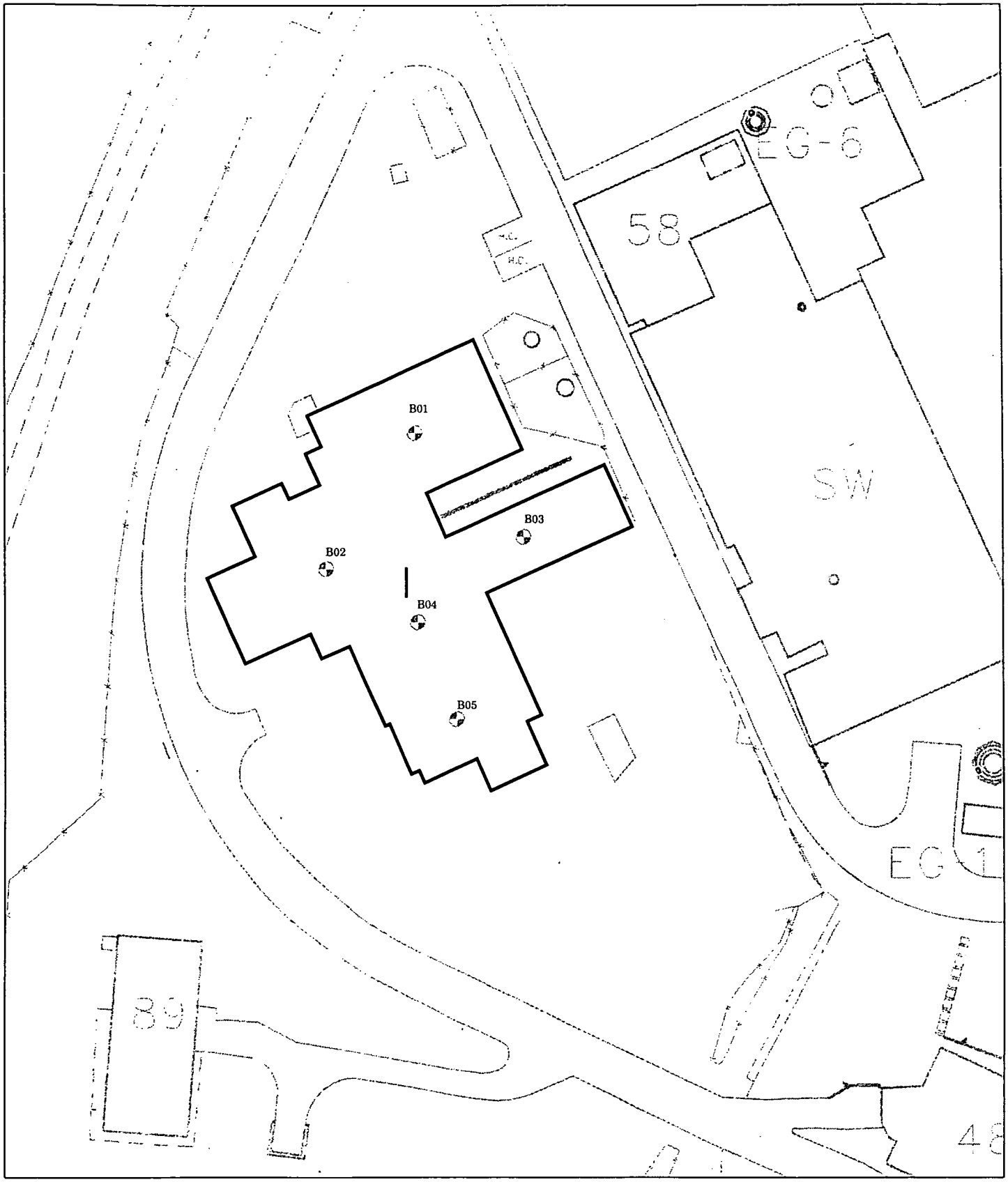

C3 of 19

ISS	DATE	REVISION	BY	CHKR	ENG	LPMEC	APVD	B
	10/29/02	Issue for Report	SSP					

MOUND

Environmental Restoration Geographic Information System

SHEET	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ISSUE																					
SHEET	1	2	3	4	5	6															
ISSUE																					

PART CLASSIFICATION

Post-Demolition Confirmation Boring Locations

DRAWING CLASSIFICATION: UNCLASSIFIED

SIZE | DRAWING NUMBER: verifboring.dgn | JOB NUMBER

DWG TYPE: STE | PRMG: ER-GIS | CAGEC | SCALE | SHEET 1 OF

STATUS: MD-REL-08/28/02 | ORIGIN: MSTATION / J

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I Building Confirmation Sample Result Detects

Locatio	Sample_	Collection_d	Value_name	Measured	Value_	Detection_	Chem	Start_	End_	Lab	Data	Project_code	Comments
B02	000013	20020425	Actinium-227	0.5300	PCI/G	0.2000	RAD	4.0	8.0			I_BLDG02V	12
B04	000009	20020425	Cesium-137	0.0200	PCI/G	0.0200	RAD	0.0	4.0			I_BLDG02V	
B04	000010	20020425	Cesium-137	0.0200	PCI/G	0.0200	RAD	4.0	6.0			I_BLDG02V	
B03	000003	20020425	Cesium-137	0.0200	PCI/G	0.0200	RAD	2.0	6.0			I_BLDG02V	
B02	000012	20020425	Cesium-137	0.0200	PCI/G	0.0200	RAD	4.0	8.0			I_BLDG02V	
B02	000011	20020425	Lead-210	0.8100	PCI/G	0.7200	RAD	0.0	4.0			I_BLDG02V	1
B04	000009	20020425	Lead-212	0.5300	PCI/G	0.1700	RAD	0.0	4.0			I_BLDG02V	
B04	000009	20020425	Lead-214	0.3700	PCI/G	0.1500	RAD	0.0	4.0			I_BLDG02V	
B04	000009	20020425	Potassium-40	14.0000	PCI/G	0.9000	RAD	0.0	4.0			I_BLDG02V	1
B02	000013	20020425	Radium-226	1.4800	PCI/G	0.7300	RAD	4.0	8.0			I_BLDG02V	1
B02	000011	20020425	Radium-226	1.4400	PCI/G	0.7400	RAD	0.0	4.0			I_BLDG02V	1
B05	000007	20020425	Radium-226	1.3600	PCI/G	0.7400	RAD	2.0	6.0			I_BLDG02V	1
B01	000001	20020425	Radium-226	1.2400	PCI/G	0.6300	RAD	2.0	6.0			I_BLDG02V	1
B03	000006	20020425	Radium-226	1.2200	PCI/G	0.6700	RAD	10.0	14.0			I_BLDG02V	1
B04	000009	20020425	Radium-226	1.1400	PCI/G	0.6200	RAD	0.0	4.0			I_BLDG02V	1
B04	000009	20020425	Thorium-228	0.6000	PCI/G	0.0200	RAD	0.0	4.0			I_BLDG02V	1
B04	000009	20020425	Thorium-230	0.7900	PCI/G	0.0100	RAD	0.0	4.0			I_BLDG02V	1
B02	000013	20020425	Thorium-232	0.7500	PCI/G	0.0900	RAD	4.0	8.0			I_BLDG02V	1
B03	000006	20020425	Thorium-232	0.6100	PCI/G	0.0800	RAD	10.0	14.0			I_BLDG02V	1
B04	000009	20020425	Thorium-232	0.6000	PCI/G	0.0070	RAD	0.0	4.0			I_BLDG02V	1
B05	000007	20020425	Thorium-232	0.5500	PCI/G	0.0900	RAD	2.0	6.0			I_BLDG02V	1
B01	000001	20020425	Thorium-232	0.5300	PCI/G	0.0800	RAD	2.0	6.0			I_BLDG02V	1
B03	000004	20020425	Thorium-232	0.5200	PCI/G	0.0800	RAD	6.0	10.0			I_BLDG02V	1
B03	000003	20020425	Thorium-232	0.5100	PCI/G	0.0800	RAD	2.0	6.0			I_BLDG02V	1
B01	000002	20020425	Thorium-232	0.5100	PCI/G	0.1100	RAD	6.0	8.0			I_BLDG02V	1
B02	000011	20020425	Thorium-232	0.5000	PCI/G	0.0900	RAD	0.0	4.0			I_BLDG02V	1
B04	000009	20020425	Thorium-232	0.4800	PCI/G	0.0700	RAD	0.0	4.0			I_BLDG02V	1
B05	000008	20020425	Thorium-232	0.4400	PCI/G	0.1000	RAD	6.0	8.0			I_BLDG02V	1
B02	000012	20020425	Thorium-232	0.4400	PCI/G	0.0800	RAD	4.0	8.0			I_BLDG02V	1
B04	000010	20020425	Thorium-232	0.3400	PCI/G	0.0900	RAD	4.0	6.0			I_BLDG02V	1
B01	000001	20020425	Uranium-233/234	0.8130	PCI/G	0.0210	RAD	2.0	6.0			I_BLDG02V	
B02	000012	20020425	Uranium-233/234	0.7810	PCI/G	0.0080	RAD	4.0	8.0			I_BLDG02V	
B03	000006	20020425	Uranium-233/234	0.7700	PCI/G	0.0080	RAD	10.0	14.0			I_BLDG02V	
B03	000003	20020425	Uranium-233/234	0.7360	PCI/G	0.0290	RAD	2.0	6.0			I_BLDG02V	
B02	000011	20020425	Uranium-233/234	0.7190	PCI/G	0.0080	RAD	0.0	4.0			I_BLDG02V	
B05	000007	20020425	Uranium-233/234	0.6740	PCI/G	0.0120	RAD	2.0	6.0			I_BLDG02V	

confirmation detects

Locatio	Sample_	Collection_d	Value_name	Measured	Value_	Detection_	Chem	Start_	End_	Lab	Data	Project_code	Comments
B01	000002	20020425	Uranium-233/234	0.6290	PCI/G	0.0110	RAD	6.0	8.0			I_BLDG02V	
B04	000009	20020425	Uranium-233/234	0.6180	PCI/G	0.0070	RAD	0.0	4.0			I_BLDG02V	
B03	000004	20020425	Uranium-233/234	0.5810	PCI/G	0.0200	RAD	6.0	10.0			I_BLDG02V	
B03	000005	20020425	Uranium-233/234	0.5510	PCI/G	0.0220	RAD	6.0	10.0			I_BLDG02V	
B04	000010	20020425	Uranium-233/234	0.5490	PCI/G	0.0120	RAD	4.0	6.0			I_BLDG02V	
B05	000008	20020425	Uranium-233/234	0.5140	PCI/G	0.0110	RAD	6.0	8.0			I_BLDG02V	
B04	000009	20020425	Uranium-234	0.7400	PCI/G	0.1200	RAD	0.0	4.0	J		I_BLDG02V	
B03	000006	20020425	Uranium-235	0.0490	PCI/G	0.0080	RAD	10.0	14.0			I_BLDG02V	
B03	000003	20020425	Uranium-235	0.0480	PCI/G	0.0200	RAD	2.0	6.0			I_BLDG02V	
B05	000007	20020425	Uranium-235	0.0400	PCI/G	0.0120	RAD	2.0	6.0			I_BLDG02V	
B01	000001	20020425	Uranium-235	0.0370	PCI/G	0.0080	RAD	2.0	6.0			I_BLDG02V	
B03	000004	20020425	Uranium-235	0.0340	PCI/G	0.0250	RAD	6.0	10.0			I_BLDG02V	
B02	000011	20020425	Uranium-235	0.0300	PCI/G	0.0080	RAD	0.0	4.0			I_BLDG02V	
B04	000009	20020425	Uranium-235	0.0290	PCI/G	0.0200	RAD	0.0	4.0			I_BLDG02V	
B02	000012	20020425	Uranium-235	0.0250	PCI/G	0.0080	RAD	4.0	8.0			I_BLDG02V	
B03	000003	20020425	Uranium-238	0.8730	PCI/G	0.0200	RAD	2.0	6.0			I_BLDG02V	
B01	000001	20020425	Uranium-238	0.8630	PCI/G	0.0210	RAD	2.0	6.0			I_BLDG02V	
B02	000011	20020425	Uranium-238	0.8520	PCI/G	0.0220	RAD	0.0	4.0			I_BLDG02V	
B01	000002	20020425	Uranium-238	0.7970	PCI/G	0.0390	RAD	6.0	8.0			I_BLDG02V	
B05	000008	20020425	Uranium-238	0.7920	PCI/G	0.0110	RAD	6.0	8.0			I_BLDG02V	
B04	000010	20020425	Uranium-238	0.7670	PCI/G	0.0410	RAD	4.0	6.0			I_BLDG02V	
B03	000006	20020425	Uranium-238	0.7640	PCI/G	0.0080	RAD	10.0	14.0			I_BLDG02V	
B05	000007	20020425	Uranium-238	0.7530	PCI/G	0.0120	RAD	2.0	6.0			I_BLDG02V	
B02	000012	20020425	Uranium-238	0.7360	PCI/G	0.0800	RAD	4.0	8.0			I_BLDG02V	
B04	000009	20020425	Uranium-238	0.6630	PCI/G	0.0070	RAD	0.0	4.0			I_BLDG02V	
B03	000005	20020425	Uranium-238	0.6070	PCI/G	0.0220	RAD	6.0	10.0			I_BLDG02V	
B03	000004	20020425	Uranium-238	0.5620	PCI/G	0.0070	RAD	6.0	10.0			I_BLDG02V	
B04	000009	20020425	Uranium-238	0.4600	PCI/G	0.1700	RAD	0.0	4.0	J		I_BLDG02V	

*Comments

1 Exceeds the 10-6 Risk-Based Guide Value
2 Exceeds the OU9 Soil Background Value
3 Exceeds screening level
4 Exceeds MCL
5 Exceeds the Guide Value based on the hazard index

Lab and data qualifiers are defined on the pages immediately following the non-detects table in this appendix.
Comparison values for results with comments are provided on the "Comparisons for Soil Analytical Results" table at the end of this appendix.

I Building Confirmation Sample Result Nondetects

Location	Sample_id	Collection_d	Value_name	Measured_v	Value_uni	Detection_li	Chem	Start	End_d	Lab_	Data	Project_code
B01	000002	20020425	Actinium-227	0.3700	PCI/G	0.3700	RAD	6.0	8.0	U		I_BLDG02V
B05	000007	20020425	Actinium-227	0.3500	PCI/G	0.3500	RAD	2.0	6.0	U		I_BLDG02V
B05	000008	20020425	Actinium-227	0.3400	PCI/G	0.3400	RAD	6.0	8.0	U		I_BLDG02V
B02	000011	20020425	Actinium-227	0.3300	PCI/G	0.3300	RAD	0.0	4.0	U		I_BLDG02V
B03	000006	20020425	Actinium-227	0.3100	PCI/G	0.3100	RAD	10.0	14.0	U		I_BLDG02V
B03	000003	20020425	Actinium-227	0.3100	PCI/G	0.3100	RAD	2.0	6.0	U		I_BLDG02V
B01	000001	20020425	Actinium-227	0.3000	PCI/G	0.3000	RAD	2.0	6.0	U		I_BLDG02V
B02	000012	20020425	Actinium-227	0.2900	PCI/G	0.2900	RAD	4.0	8.0	U		I_BLDG02V
B03	000004	20020425	Actinium-227	0.2800	PCI/G	0.2800	RAD	6.0	10.0	U		I_BLDG02V
B04	000010	20020425	Actinium-227	0.2700	PCI/G	0.2700	RAD	4.0	6.0	U		I_BLDG02V
B04	000009	20020425	Actinium-227	0.2600	PCI/G	0.2600	RAD	0.0	4.0	U		I_BLDG02V
B02	000013	20020425	Americium-241	0.0900	PCI/G	0.0900	RAD	4.0	8.0	U		I_BLDG02V
B05	000008	20020425	Americium-241	0.0800	PCI/G	0.0800	RAD	6.0	8.0	U		I_BLDG02V
B05	000007	20020425	Americium-241	0.0800	PCI/G	0.0800	RAD	2.0	6.0	U		I_BLDG02V
B02	000011	20020425	Americium-241	0.0800	PCI/G	0.0800	RAD	0.0	4.0	U		I_BLDG02V
B01	000002	20020425	Americium-241	0.0800	PCI/G	0.0800	RAD	6.0	8.0	U		I_BLDG02V
B04	000010	20020425	Americium-241	0.0700	PCI/G	0.0700	RAD	4.0	6.0	U		I_BLDG02V
B03	000006	20020425	Americium-241	0.0700	PCI/G	0.0700	RAD	10.0	14.0	U		I_BLDG02V
B03	000004	20020425	Americium-241	0.0700	PCI/G	0.0700	RAD	6.0	10.0	U		I_BLDG02V
B03	000003	20020425	Americium-241	0.0700	PCI/G	0.0700	RAD	2.0	6.0	U		I_BLDG02V
B02	000012	20020425	Americium-241	0.0700	PCI/G	0.0700	RAD	4.0	8.0	U		I_BLDG02V
B01	000001	20020425	Americium-241	0.0700	PCI/G	0.0700	RAD	2.0	6.0	U		I_BLDG02V
B04	000009	20020425	Americium-241	0.0600	PCI/G	0.0600	RAD	0.0	4.0	U		I_BLDG02V
B04	000009	20020425	Cesium-137	0.0750	PCI/G	0.0750	RAD	0.0	4.0	U		I_BLDG02V
B05	000008	20020425	Cesium-137	0.0300	PCI/G	0.0300	RAD	6.0	8.0	U		I_BLDG02V
B05	000007	20020425	Cesium-137	0.0300	PCI/G	0.0300	RAD	2.0	6.0	U		I_BLDG02V
B03	000004	20020425	Cesium-137	0.0300	PCI/G	0.0600	RAD	6.0	10.0	U		I_BLDG02V
B02	000013	20020425	Cesium-137	0.0300	PCI/G	0.0300	RAD	4.0	8.0	U		I_BLDG02V
B02	000011	20020425	Cesium-137	0.0300	PCI/G	0.0300	RAD	0.0	4.0	U		I_BLDG02V
B01	000002	20020425	Cesium-137	0.0300	PCI/G	0.0300	RAD	6.0	8.0	U		I_BLDG02V
B03	000006	20020425	Cesium-137	0.0200	PCI/G	0.0200	RAD	10.0	14.0	U		I_BLDG02V
B01	000001	20020425	Cesium-137	0.0200	PCI/G	0.0200	RAD	2.0	6.0	U		I_BLDG02V
B02	000013	20020425	Cobalt-60	0.0400	PCI/G	0.0400	RAD	4.0	8.0	U		I_BLDG02V
B05	000008	20020425	Cobalt-60	0.0300	PCI/G	0.0300	RAD	6.0	8.0	U		I_BLDG02V
B03	000006	20020425	Cobalt-60	0.0300	PCI/G	0.0300	RAD	10.0	14.0	U		I_BLDG02V

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confirmation nondetects

Location	Sample_id	Collection_d	Value_name	Measured_v	Value_uni	Detection_li	Chem	Start	End_d	Lab_	Data	Project_code
B03	000004	20020425	Cobalt-60	0.0300	PCI/G	0.0300	RAD	6.0	10.0	U		I_BLDG02V
B02	000012	20020425	Cobalt-60	0.0300	PCI/G	0.0300	RAD	4.0	8.0	U		I_BLDG02V
B01	000002	20020425	Cobalt-60	0.0300	PCI/G	0.0300	RAD	6.0	8.0	U		I_BLDG02V
B05	000007	20020425	Cobalt-60	0.0200	PCI/G	0.0200	RAD	2.0	6.0	U		I_BLDG02V
B04	000009	20020425	Cobalt-60	0.0200	PCI/G	0.0200	RAD	0.0	4.0	U		I_BLDG02V
B04	000010	20020425	Cobalt-60	0.0200	PCI/G	0.0200	RAD	4.0	6.0	U		I_BLDG02V
B03	000003	20020425	Cobalt-60	0.0200	PCI/G	0.0200	RAD	2.0	6.0	U		I_BLDG02V
B02	000011	20020425	Cobalt-60	0.0200	PCI/G	0.0200	RAD	0.0	4.0	U		I_BLDG02V
B01	000001	20020425	Cobalt-60	0.0200	PCI/G	0.0200	RAD	2.0	6.0	U		I_BLDG02V
B04	000009	20020425	Cobalt-60	0.0100	PCI/G	0.0100	RAD	0.0	4.0	U		I_BLDG02V
B02	000013	20020425	Lead-210	0.8900	PCI/G	0.8900	RAD	4.0	8.0	U		I_BLDG02V
B01	000002	20020425	Lead-210	0.8400	PCI/G	0.8400	RAD	6.0	8.0	U		I_BLDG02V
B05	000007	20020425	Lead-210	0.7200	PCI/G	0.7200	RAD	2.0	6.0	U		I_BLDG02V
B05	000008	20020425	Lead-210	0.7000	PCI/G	0.0700	RAD	6.0	8.0	U		I_BLDG02V
B03	000006	20020425	Lead-210	0.6800	PCI/G	0.6800	RAD	10.0	14.0	U		I_BLDG02V
B02	000012	20020425	Lead-210	0.6500	PCI/G	0.6500	RAD	4.0	8.0	U		I_BLDG02V
B03	000004	20020425	Lead-210	0.6400	PCI/G	0.6400	RAD	6.0	10.0	U		I_BLDG02V
B01	000001	20020425	Lead-210	0.6200	PCI/G	0.6200	RAD	2.0	6.0	U		I_BLDG02V
B04	000010	20020425	Lead-210	0.6000	PCI/G	0.6000	RAD	4.0	6.0	U		I_BLDG02V
B03	000003	20020425	Lead-210	0.5900	PCI/G	0.5900	RAD	2.0	6.0	U		I_BLDG02V
B04	000009	20020425	Lead-210	0.5800	PCI/G	0.5800	RAD	0.0	4.0	U		I_BLDG02V
B02	000013	20020425	Plutonium-238	44.9400	PCI/G	44.9400	RAD	4.0	8.0	U		I_BLDG02V
B05	000008	20020425	Plutonium-238	28.5900	PCI/G	28.5900	RAD	6.0	8.0	U		I_BLDG02V
B01	000002	20020425	Plutonium-238	28.3600	PCI/G	28.3600	RAD	6.0	8.0	U		I_BLDG02V
B05	000007	20020425	Plutonium-238	24.4600	PCI/G	24.4600	RAD	2.0	6.0	U		I_BLDG02V
B04	000010	20020425	Plutonium-238	23.6400	PCI/G	23.6400	RAD	4.0	6.0	U		I_BLDG02V
B02	000011	20020425	Plutonium-238	23.2900	PCI/G	23.2900	RAD	0.0	4.0	U		I_BLDG02V
B03	000003	20020425	Plutonium-238	22.2000	PCI/G	22.2000	RAD	2.0	6.0	U		I_BLDG02V
B02	000012	20020425	Plutonium-238	21.6800	PCI/G	21.6800	RAD	4.0	8.0	U		I_BLDG02V
B03	000006	20020425	Plutonium-238	20.7000	PCI/G	20.7000	RAD	10.0	14.0	U		I_BLDG02V
B03	000004	20020425	Plutonium-238	20.5900	PCI/G	20.5900	RAD	6.0	10.0	U		I_BLDG02V
B01	000001	20020425	Plutonium-238	20.4800	PCI/G	20.4800	RAD	2.0	6.0	U		I_BLDG02V
B04	000009	20020425	Plutonium-238	18.6000	PCI/G	18.6000	RAD	0.0	4.0	U		I_BLDG02V
B04	000009	20020425	Plutonium-238	-0.0021	PCI/G	0.0500	RAD	0.0	4.0	U		I_BLDG02V
B04	000009	20020425	Plutonium-239/240	0.0300	PCI/G	0.0300	RAD	0.0	4.0	U		I_BLDG02V
B01	000002	20020425	Radium-226	0.8900	PCI/G	0.8900	RAD	6.0	8.0	U		I_BLDG02V
B05	000008	20020425	Radium-226	0.8500	PCI/G	0.8500	RAD	6.0	8.0	U		I_BLDG02V

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Location	Sample_id	Collection_d	Value_name	Measured_v	Value_uni	Detection_li	Chem	Start	End_d	Lab_	Data	Project_code
B03	000004	20020425	Radium-226	0.7100	PCI/G	0.6600	RAD	6.0	10.0	U		I_BLDG02V
B03	000003	20020425	Radium-226	0.7000	PCI/G	0.7000	RAD	2.0	6.0	U		I_BLDG02V
B02	000012	20020425	Radium-226	0.7000	PCI/G	0.7000	RAD	4.0	8.0	U		I_BLDG02V
B04	000010	20020425	Radium-226	0.6800	PCI/G	0.6800	RAD	4.0	6.0	U		I_BLDG02V
B01	000002	20020425	Thorium-230	7.8600	PCI/G	7.8600	RAD	6.0	8.0	U		I_BLDG02V
B05	000008	20020425	Thorium-230	7.6900	PCI/G	7.6900	RAD	6.0	8.0	U		I_BLDG02V
B05	000007	20020425	Thorium-230	7.1800	PCI/G	7.1800	RAD	2.0	6.0	U		I_BLDG02V
B02	000013	20020425	Thorium-230	6.9600	PCI/G	6.9600	RAD	4.0	8.0	U		I_BLDG02V
B02	000011	20020425	Thorium-230	6.9100	PCI/G	6.9100	RAD	0.0	4.0	U		I_BLDG02V
B03	000006	20020425	Thorium-230	6.8200	PCI/G	6.8200	RAD	10.0	14.0	U		I_BLDG02V
B03	000004	20020425	Thorium-230	6.4200	PCI/G	6.4200	RAD	6.0	10.0	U		I_BLDG02V
B02	000012	20020425	Thorium-230	6.3500	PCI/G	6.3500	RAD	4.0	8.0	U		I_BLDG02V
B04	000010	20020425	Thorium-230	6.0300	PCI/G	6.0300	RAD	4.0	6.0	U		I_BLDG02V
B01	000001	20020425	Thorium-230	6.0100	PCI/G	6.0100	RAD	2.0	6.0	U		I_BLDG02V
B03	000003	20020425	Thorium-230	5.8700	PCI/G	5.8700	RAD	2.0	6.0	U		I_BLDG02V
B04	000009	20020425	Thorium-230	5.4800	PCI/G	5.4800	RAD	0.0	4.0	U		I_BLDG02V
B02	000013	20020425	Tritium	2.0000	PCI/G	0.2000	RAD	4.0	8.0	U		I_BLDG02V
B05	000008	20020425	Tritium	1.2700	PCI/G	1.2700	RAD	6.0	8.0	U		I_BLDG02V
B01	000002	20020425	Tritium	1.2700	PCI/G	1.2700	RAD	6.0	8.0	U		I_BLDG02V
B05	000007	20020425	Tritium	1.2600	PCI/G	1.2600	RAD	2.0	6.0	U		I_BLDG02V
B04	000010	20020425	Tritium	1.2600	PCI/G	1.2600	RAD	4.0	6.0	U		I_BLDG02V
B04	000009	20020425	Tritium	0.4400	PCI/G	0.4400	RAD	0.0	4.0	U		I_BLDG02V
B04	000009	20020425	Tritium	0.2000	PCI/G	0.2000	RAD	0.0	4.0	U		I_BLDG02V
B03	000006	20020425	Tritium	0.2000	PCI/G	0.2000	RAD	10.0	14.0	U		I_BLDG02V
B03	000004	20020425	Tritium	0.2000	PCI/G	0.2000	RAD	6.0	10.0	U		I_BLDG02V
B03	000003	20020425	Tritium	0.2000	PCI/G	0.2000	RAD	2.0	6.0	U		I_BLDG02V
B03	000005	20020425	Tritium	0.2000	PCI/G	0.2000	RAD	6.0	10.0	U		I_BLDG02V
B02	000012	20020425	Tritium	0.2000	PCI/G	0.2000	RAD	4.0	8.0	U		I_BLDG02V
B02	000011	20020425	Tritium	0.2000	PCI/G	0.2000	RAD	0.0	4.0	U		I_BLDG02V
B01	000001	20020425	Tritium	0.2000	PCI/G	0.2000	RAD	2.0	6.0	U		I_BLDG02V
B04	000009	20020425	Uranium-235	0.1900	PCI/G	0.1900	RAD	0.0	4.0	U		I_BLDG02V
B05	000008	20020425	Uranium-235	0.0520	PCI/G	0.0520	RAD	6.0	8.0	U		I_BLDG02V
B01	000002	20020425	Uranium-235	0.0520	PCI/G	0.0520	RAD	6.0	8.0	U		I_BLDG02V
B04	000010	20020425	Uranium-235	0.0420	PCI/G	0.0420	RAD	4.0	6.0	U		I_BLDG02V
B03	000005	20020425	Uranium-235	0.0270	PCI/G	0.0270	RAD	6.0	10.0	U		I_BLDG02V

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LABORATORY DATA QUALIFIERS (LABQUAL)

The following qualifiers will be applied to the organic analysis results by the laboratory in accordance with CLP SOW direction:

ORGANICS

U	Indicates compound was analyzed for but not detected. The associated sample quantitation limit will be the CRQL, corrected for dilution and for percent moisture.
J	Indicates an estimated value. This flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds (TICs) assuming a 1:1 response, 2) when the qualitative data indicated the presence of a compound that meets the volatile, semivolatile, and pesticide/Aroclor identification criteria, and the result is less than the CRQL but greater than zero.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where identification is based on a mass spectral library search.
P	Used for pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns.
C	Applies to pesticide results where the identification has been confirmed by GC/MS.
B	Used when the analyte is found in the associated blank as well as in the sample. This flag must be used for a TIC as well as for a positively identified target compound.
E	Identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.
D	Identifies all compounds identified in an analysis at a secondary dilution factor.
A	Indicates that a TIC is a suspected aldol-condensation product.

INORGANICS

B	Indicates that the reported value was obtained from a reading that was less than the CRDL but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates that the analyte was analyzed for but not detected.
E	Indicates the reported value is estimated because of the presence of interferences.
M	Duplicate injection precision was not met.
N	Spiked sample recovery not within control limits.
S	Reported value was determined by the Method of Standard Additions (MSA).
W	Post-digestion spike for Furnace AA analysis is out of control limits, while sample absorbency is less than 50% of spike absorbency.
•	Duplicate analysis not within control limits.
+	Correlation coefficient for the MSA is less than 0.995.

DATA QUALIFIER CODES (DATAQUAL)

ORGANICS AND INORGANICS

U	The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
J	The associated numerical value is an estimated quantity.
R	The data are unusable (compound may or may not be present). Resampling and reanalysis is necessary for verification.
N	Presumptive evidence of the presence of the material.
NJ	Presumptive evidence of the presence of the material at an estimated quantity.
UJ	The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

SUB-QUALIFIER CODES

ORGANICS

D	Duplicates
B	Qualified due to blank
C	Qualified due to calibration
H	Holding time exceeded
K	Qualified due to surrogate recovery
L	Qualified due to Laboratory Control Sample
S	Qualified due to matrix spike recovery
I	Qualified due to internal standard
N	Tentative identification (only for TICs)
P	Pesticide/PCB results have >25 percent difference on two different columns
+	Positive bias (added after subqualifier)
-	Negative bias (added after subqualifier)

INORGANICS

D	Duplicates
B	Qualified due to blank
C	Qualified due to calibration
H	Holding time exceeded
L	Qualified due to Laboratory Control Sample
S	Qualified due to matrix spike recovery
I	Qualified due to interference
+	Positive bias (added after subqualifier)
-	Negative bias (added after subqualifier)
Examples of final qualification might be J-C, UJ-S(+), UJ-BC(-), etc.	

The subqualifiers have been included to clarify any reports you may use. The subqualifiers have been captured when it was included in the electronic data submitted by the contractor. Most of the data in MEIMS does not include them.

The above data was extracted from the OU9 Site Wide Quality Assurance Project Plan, pages 9-16 and Appendix H page 3-1. It was updated from the Methods Compendium.

Comparisons for Soil Analytical Results

10-6 Risk-Based Guideline Values			
107-06-2	1,2-Dichloroethane	3.20E+00	MG/KG
118-96-7	2,4,6-Trinitrotoluene	1.91E+02	MG/KG
72-55-9	4,4'-DDE	9.00E+00	MG/KG
50-29-3	4,4'-DDT	9.00E+00	MG/KG
309-00-2	Aldrin	1.80E-01	MG/KG
5103-71-9	Alpha Chlordane	8.50E+00	MG/KG
12672-29-6	Aroclor-1248	3.85E-01	MG/KG
11096-82-5	Aroclor-1260	3.85E-01	MG/KG
7440-38-2	Arsenic	1.20E+03	MG/KG
71-43-2	Benzene	8.90E+00	MG/KG
56-55-3	Benzo(a)anthracene	4.10E+00	MG/KG
50-32-8	Benzo(a)pyrene	4.10E-01	MG/KG
205-99-2	Benzo(b)fluoranthene	4.10E+00	MG/KG
207-08-9	Benzo(k)fluoranthene	4.10E+01	MG/KG
7440-41-7	Beryllium	7.00E-01	MG/KG
319-85-7	Beta-BHC	1.65E+00	MG/KG
117-81-7	Bis(2-ethylhexyl)phthalate	2.15E+02	MG/KG
75-27-4	Bromodichloromethane	4.80E+01	MG/KG
75-25-2	Bromoform	3.75E+02	MG/KG
7440-43-9	Cadmium	1.00E+04	MG/KG
56-23-5	Carbon Tetrachloride	4.60E+00	MG/KG
67-66-3	Chloroform	3.10E+00	MG/KG
7440-47-3	Chromium	1.50E+03	MG/KG
218-01-9	Chrysene	4.10E+02	MG/KG
53-70-3	Dibenz(a,h)anthracene	4.10E-01	MG/KG
124-48-1	Dibromochloromethane	3.55E+01	MG/KG
75-09-2	Dichloromethane	3.95E+02	MG/KG
60-57-1	Dieldrin	1.85E-01	MG/KG
5103-74-2	Gamma Chlordane	8.50E+00	MG/KG
58-89-9	Gamma-BHC (Lindane)	2.30E+00	MG/KG
76-44-8	Heptachlor	0.66	MG/KG
1024-57-3	Heptachlor Epoxide	0.33	MG/KG
193-39-5	Indeno(1,2,3-cd)pyrene	4.10E+00	MG/KG
78-59-1	Isophorone	3.15E+03	MG/KG
86-30-6	N-Nitrosodiphenylamine	6.00E+02	MG/KG
87-86-5	Pentachlorophenol	2.50E+01	MG/KG
121-82-4	RDX	2.70E+01	MG/KG
79-01-6	Trichloroethene	4.10E+01	MG/KG
7440-41-7	1,1,1,2-Tetrachloroethane	1.10E-02	MG/L
7440-38-2	1,1,2,2-Tetrachloroethane	1.40E-03	MG/L
7440-34-8	Actinium-227	4.50E-01	PCI/G
14596-10-2	Americium-241	6.30E+00	PCI/G
13982-38-2	Bismuth-207	1.60E-01	PCI/G
10045-97-3	Cesium-137	3.40E-01	PCI/G
10198-40-0	Cobalt-60	7.00E-02	PCI/G
14255-04-0	Lead-210	6.20E-01	PCI/G

13981-16-3	Plutonium-238	6.10E+00 PCI/G
15117-48-3	Plutonium-239	5.50E+00 PCI/G
PU239/240	Plutonium-240	6.10E+00 PCI/G
13966-00-2	Potassium-40	1.42E+00 PCI/G
14331-85-2	Protactinium-231	3.90E-01 PCI/G
13982-63-3	Radium-226	9.00E-02 PCI/G
10098-97-2	Strontium-90	9.40E+00 PCI/G
14274-82-9	Thorium-228	1.10E-01 PCI/G
14269-63-7	Thorium-230	9.00E-02 PCI/G
7440-29-1	Thorium-232	7.00E-02 PCI/G
10028-17-8	Tritium	2.35E+04 PCI/G
13968-55-3	Uranium-233	9.68E-01 PCI/G
13966-29-5	Uranium-234	1.05E+01 PCI/G
15117-96-1	Uranium-235	1.60E+00 PCI/G
24678-82-8	Uranium-238	1.00E-01 PCI/G
14596-10-2	Americium-241	4.90E-01 PCI/L
14331-79-4	Bismuth-210	2.20E+01 PCI/L
15262-20-1	Radium-228	3.30E-01 PCI/L
13967-73-2	Strontium-85	1.10E+02 PCI/L
10098-97-2	Strontium-90	3.90E+00 PCI/L
15623-47-9	Thorium-227	4.00E+00 PCI/L
14274-82-9	Thorium-228	6.90E-01 PCI/L
14269-63-7	Thorium-230	1.20E-01 PCI/L
7440-29-1	Thorium-232	3.10E-01 PCI/L
24678-82-8	Uranium-238+D	2.02E-01 PCI/L
	OU9 Soil Background Values	
72-54-8	4,4'-DDD	4.2 MG/KG
72-55-9	4,4'-DDE	4.3 MG/KG
50-29-3	4,4'-DDT	13 MG/KG
309-00-2	Aldrin	ND MG/KG
5103-71-9	Alpha Chlordane	ND MG/KG
319-84-6	Alpha-BHC	ND MG/KG
7429-90-5	Aluminum	19000 MG/KG
14596-10-2	Americium-241	ND MG/KG
12672-29-6	Aroclor-1248	ND MG/KG
11097-69-1	Aroclor-1254	58 MG/KG
11096-82-5	Aroclor-1260	ND MG/KG
7440-38-2	Arsenic	8.6 MG/KG
7440-39-3	Barium	180 MG/KG
7440-41-7	Beryllium	1.3 MG/KG
319-85-7	Beta-BHC	ND MG/KG
7440-69-9	Bismuth	ND MG/KG
13982-38-2	Bismuth-207	ND MG/KG
14331-79-4	Bismuth-210m	ND MG/KG
7440-43-9	Cadmium	2.1 MG/KG
7440-70-2	Calcium	310000 MG/KG
7440-47-3	Chromium	20 MG/KG
7440-48-4	Cobalt	19 MG/KG

7440-50-8	Copper	26 MG/KG
57-12-5	Cyanide	ND MG/KG
60-57-1	Dieldrin	ND MG/KG
959-98-8	Endosulfan I	ND MG/KG
1031-07-8	Endosulfan Sulfate	ND MG/KG
72-20-8	Endrin	ND MG/KG
7421-93-4	Endrin Aldehyde	ND MG/KG
53494-70-5	Endrin Ketone	ND MG/KG
5103-74-2	Gamma Chlordane	ND MG/KG
58-89-9	Gamma-BHC (Lindane)	ND MG/KG
76-44-8	Heptachlor	ND MG/KG
1024-57-3	Heptachlor Epoxide	ND MG/KG
77-47-4	Hexachlorocyclopentadiene	ND MG/KG
7439-89-6	Iron	35000 MG/KG
7439-92-1	Lead	48 MG/KG
7439-93-2	Lithium	26 MG/KG
7439-95-4	Magnesium	40000 MG/KG
7439-96-5	Manganese	1400 MG/KG
7439-97-6	Mercury	ND MG/KG
72-43-5	Methoxychlor	30 MG/KG
7439-98-7	Molybdenum	27 MG/KG
7440-02-0	Nickel	32 MG/KG
7440-09-7	Potassium	1900 MG/KG
7782-49-2	Selenium	ND MG/KG
7440-22-4	Silver	1.7 MG/KG
7440-23-5	Sodium	240 MG/KG
7440-28-0	Thallium	0.46 MG/KG
7440-31-5	Tin	20 MG/KG
7440-62-2	Vanadium	25 MG/KG
7440-66-6	Zinc	140 MG/KG
7440-34-8	Actinium-227	1.10E-01 PCI/G
10045-97-3	Cesium-137	0.42 PCI/G
14255-04-0	Lead-210	1.20E+00 PCI/G
13981-16-3	Plutonium-238	0.13 PCI/G
15117-48-3	Plutonium-239	1.80E-01 PCI/G
PU239/240	Plutonium-240	1.80E-01 PCI/G
13966-00-2	Potassium-40	37 PCI/G
14331-85-2	Protactinium-231	1.10E-01 PCI/G
13982-63-3	Radium-226	2 PCI/G
10098-97-2	Strontium-90	0.72 PCI/G
14274-82-9	Thorium-228	1.5 PCI/G
14269-63-7	Thorium-230	1.9 PCI/G
7440-29-1	Thorium-232	1.4 PCI/G
10028-17-8	Tritium	1.6 PCI/G
13966-29-5	Uranium-234	1.1 PCI/G
15117-96-1	Uranium-235	0.11 PCI/G
24678-82-8	Uranium-238	1.2 PCI/G

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Core Team Determined Screening Levels		
7439-92-1	Lead	400 MG/KG
7440-34-8	Actinium-227	5.60E-01 PCI/G
14596-10-2	Americium-241	6.3 PCI/G
13982-38-2	Bismuth-207	0.175 PCI/G
10045-97-3	Cesium-137	0.76 PCI/G
10198-40-0	Cobalt-60	7.00E-02 PCI/G
14255-04-0	Lead-210	1.80E+00 PCI/G
13981-16-3	Plutonium-238	55 PCI/G
14331-85-2	Protactinium-231	4.00E+00 PCI/G
13982-63-3	Radium-226	2.1 PCI/G
14274-82-9	Thorium-228	1.61 PCI/G
14269-63-7	Thorium-230	2 PCI/G
7440-29-1	Thorium-232	1.47 PCI/G
15117-96-1	Uranium-235	1.7 PCI/G
24678-82-8	Uranium-238+D	1.3 PCI/G

Maximum Contaminant Level for Drinking Water		
71-55-6	1,1,1-Trichloroethane	0.2 MG/L
79-00-5	1,1,2-Trichloroethane	0.005 MG/L
75-35-4	1,1-Dichloroethene	0.007 MG/L
120-82-1	1,2,4-Trichlorobenzene	0.07 MG/L
156-59-2	1,2-cis-Dichloroethene	0.07 MG/L
106-93-4	1,2-Dibromoethane	0.00005 MG/L
95-50-1	1,2-Dichlorobenzene	0.6 MG/L
107-06-2	1,2-Dichloroethane	0.005 MG/L
78-87-5	1,2-Dichloropropane	0.005 MG/L
156-60-5	1,2-trans-Dichloroethene	0.01 MG/L
106-46-7	1,4-Dichlorobenzene	0.075 MG/L
95-95-4	2,4,5-Trichlorophenol	0.05 MG/L
94-75-7	2,4-D	0.07 MG/L
7440-36-0	Antimony	0.0006 MG/L
7440-38-2	Arsenic	0.05 MG/L
7440-39-3	Barium	2 MG/L
71-43-2	Benzene	0.005 MG/L
50-32-8	Benzo(a)pyrene	0.002 MG/L
7440-41-7	Beryllium	0.004 MG/L
117-81-7	bis(2-ethylhexyl)phthalate	0.006 MG/L
75-27-4	Bromodichloromethane	0.008 MG/L
75-25-2	Bromoform	0.008 MG/L
7440-43-9	Cadmium	0.005 MG/L
56-23-5	Carbon Tetrachloride	0.005 MG/L
57-74-9	Chlordane	0.002 MG/L
108-90-7	Chlorobenzene	0.1 MG/L
67-66-3	Chloroform	0.008 MG/L
7440-47-3	Chromium	0.1 MG/L
7440-50-8	Copper	1.3 MG/L
57-12-5	Cyanide	0.2 MG/L
96-12-8	Dibromochloropropane	0.0002 MG/L

75-09-2	Dichloromethane (Methylene Chloride)	0.005 MG/L
88-85-7	Dinoseb	0.007 MG/L
1746-01-6	Dioxin	0.00000003 MG/L
72-20-8	Endrin	0.002 MG/L
100-41-4	Ethylbenzene	0.07 MG/L
16984-48-8	Flouride	4 MG/L
58-89-9	Gamma-BHC (Lindane)	0.0002 MG/L
76-44-8	Heptachlor	0.0004 MG/L
1024-57-3	Heptachlor Epoxide	0.0002 MG/L
118-74-1	Hexachlorobenzene	0.001 MG/L
77-47-4	Hexachlorocyclopentadiene	0.05 MG/L
7439-92-1	Lead	0.015 MG/L
7439-97-6	Mercury	0.002 MG/L
72-43-5	Methoxychlor	0.04 MG/L
7440-02-0	Nickel	0.1 MG/L
NO3	Nitrate	10 MG/L
14797-65-0	Nitrite	1 MG/L
87-86-5	Pentachlorophenol	0.001 MG/L
7782-49-2	Selenium	0.05 MG/L
100-42-5	Styrene	0.1 MG/L
127-18-4	Tetrachloroethene	0.005 MG/L
7440-28-0	Thallium	0.002 MG/L
108-88-3	Toluene	1 MG/L
8001-35-2	Toxaphene	0.003 MG/L
79-01-6	Trichloroethene	0.005 MG/L
75-01-4	Vinyl Chloride	0.002 MG/L
1330-20-7	Xylenes, Total	10 MG/L
7440-34-8	Actinium-227	0.4 PCI/L
14596-10-2	Americium-241	1.2 PCI/L
13982-38-2	Bismuth-207	1200 PCI/L
10045-97-3	Cesium-137	120 PCI/L
10198-40-0	Cobalt-60	400 PCI/L
13981-16-3	Plutonium-238	1.6 PCI/L
13982-63-3	Radium-226	4 PCI/L
10098-97-2	Strontium-90	40 PCI/L
14274-82-9	Thorium-228	16 PCI/L
14269-63-7	Thorium-230	12 PCI/L
7440-29-1	Thorium-232	2 PCI/L
10028-17-8	Tritium	20000 PCI/L
13968-55-3	Uranium-233	20 PCI/L
13966-29-5	Uranium-234	20 PCI/L
15117-96-1	Uranium-235	24 PCI/L
24678-82-8	Uranium-238	24 PCI/L
	Guideline Values based on the Hazard Index	
76-13-1	1,1,2-Trichloro-1,2,2triflouroethane	7.00E+04 MG/KG
75-34-3	1,1-Dichloroethane	7.80E+00 MG/KG
120-82-1	1,2,4-Trichlorobenzene	2.04E+04 MG/KG
156-59-2	1,2-cis-Dichloroethene	2.13E+03 MG/KG

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156-60-5	1,2-trans-Dichloroethene	4.30E+03 MG/KG
99-65-0	1,3-Dinitrobenzene	2.00E+02 MG/KG
118-96-7	2,4,6-Trinitrotoluene	1.00E+03 MG/KG
78-93-3	2-Butanone	9.30E+03 MG/KG
95-57-8	2-Chlorophenol	1.06E+03 MG/KG
108-10-1	2-Methyl-4-pentanone	7.00E+02 MG/KG
50-29-3	4,4'-DDT	1.10E+02 MG/KG
106-44-5	4-Methylphenol	1.10E+03 MG/KG
67-64-1	Acetone	2.10E+04 MG/KG
309-00-2	Aldrin	6.4 MG/KG
5103-71-9	Alpha Chlordane	110 MG/KG
7429-90-5	Aluminum	210000 MG/KG
120-12-7	Anthracene	6.40E+04 MG/KG
7440-36-0	Antimony	8.50E+01 MG/KG
11097-69-1	Aroclor-1254	4.30E+00 MG/KG
7440-38-2	Arsenic	6.40E+01 MG/KG
7440-39-3	Barium	1.50E+04 MG/KG
65-85-0	Benzoic Acid	8.50E+05 MG/KG
7440-41-7	Beryllium	1.10E+03 MG/KG
117-81-7	Bis(2-ethylhexyl)phthalate	4.30E+03 MG/KG
75-27-4	Bromodichloromethane	4.30E+03 MG/KG
75-25-2	Bromoform	4.30E+03 MG/KG
85-68-7	Butyl Benzyl Phthalate	4.30E+04 MG/KG
7440-43-9	Cadmium	2.10E+02 MG/KG
75-15-0	Carbon Disulfide	2.80E+02 MG/KG
56-23-5	Carbon Tetrachloride	1.50E+02 MG/KG
75-00-3	Chloroethane	1.60E+02 MG/KG
67-66-3	Chloroform	2.10E+03 MG/KG
7440-47-3	Chromium	1.10E+03 MG/KG
18540-29-9	Chromium-VI	6.39E+02 MG/KG
7440-50-8	Copper	7.90E+03 MG/KG
57-12-5	Cyanide	4.30E+03 MG/KG
53-70-3	Dibenz(a,h)anthracene	4.08E-02 MG/KG
124-48-1	Dibromochloromethane	4.30E+03 MG/KG
75-09-2	Dichloromethane	1.00E+03 MG/KG
60-57-1	Dieldrin	1.10E+01 MG/KG
84-74-2	Di-n-butyl Phthalate	2.10E+04 MG/KG
117-84-0	Di-n-octyl Phthalate	4.30E+03 MG/KG
959-98-8	Endosulfan I	1300 MG/KG
33213-65-9	Endosulfan II	1300 MG/KG
100-41-4	Ethylbenzene	4.80E-01 MG/KG
86-73-7	Flourene	8.50E+03 MG/KG
206-44-0	Fluoranthene	8.50E+03 MG/KG
5103-74-2	Gamma Chlordane	110 MG/KG
58-89-9	Gamma-BHC (Lindane)	64 MG/KG
76-44-8	Heptachlor	110 MG/KG
1024-57-3	Heptachlor Epoxide	2.8 MG/KG
110-54-3	Hexane	9.10E+01 MG/KG
193-39-5	Indeno(1,2,3-cd)pyrene	4.08E-01 MG/KG

78-59-1	Isophorone	4.30E+04 MG/KG
7439-96-5	Manganese	2.70E+04 MG/KG
7439-97-6	Mercury	6.40E+01 MG/KG
72-43-5	Methoxychlor	1100 MG/KG
7440-02-0	Nickel	4.30E+03 MG/KG
87-86-5	Pentachlorophenol	6.40E+03 MG/KG
108-95-2	Phenol	1.30E+05 MG/KG
129-00-0	Pyrene	6.40E+03 MG/KG
7782-49-2	Selenium	1100 MG/KG
7440-22-4	Silver	1.10E+03 MG/KG
127-18-4	Tetrachloroethene	2.10E+03 MG/KG
7440-28-0	Thallium	17 MG/KG
7440-31-5	Tin	130000 MG/KG
108-88-3	Toluene	2.50E+02 MG/KG
75-69-4	Trichlorofluoromethane	7.30E+02 MG/KG
7440-62-2	Vanadium	1.50E+03 MG/KG
1330-20-7	Xylenes, Total	4.30E+05 MG/KG
7440-66-6	Zinc	6.40E+04 MG/KG
7440-41-7	1,1,1,2-Tetrachloroethane	2.90E-01 MG/L
7440-38-2	1,1,2,2-Tetrachloroethane	2.50E-01 MG/L
71-55-6	1,1,1-Trichloroethane	1.80E+00 MG/L
76-13-1	1,1,2-Trichloro-1,2,2triflouroethane	2.50E+03 MG/L
7429-90-5	Aluminum	100 MG/L
7440-42-8	Boron	9.00E+00 MG/L
18540-29-9	Chromium-VI	3.00E-01 MG/L
7440-48-4	Cobalt	6 MG/L
7440-50-8	Copper	4.00E+00 MG/L
7439-98-7	Molybdenum	0.5 MG/L
7782-49-2	Selenium	0.5 MG/L
7440-28-0	Thallium	0.008 MG/L
7440-31-5	Tin	60 MG/L
2691-41-0	HMX	1.10E+04 UG/KG
121-82-4	RDX	6.40E+04 UG/KG

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APPENDIX D

GENERAL MEDIA INFORMATION

News from **BWX Technologies, Inc.**

a McDermott company

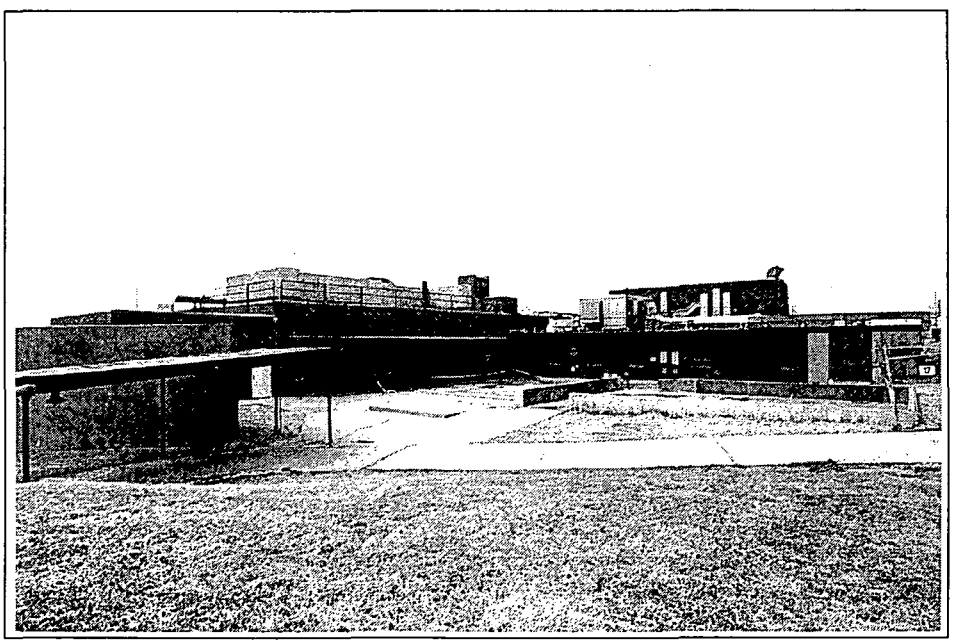
For Immediate Release

February 27, 2002
Miamisburg, Ohio

BWXT of Ohio, the Mound site contractor, is continuing its acceleration of site closure by beginning demolition of "I" Building on Thursday, February 28, 2002, three weeks ahead of there 2006 baseline schedule. The 25,736 square foot, brick-faced reinforced concrete building was built in 1956, with additions in 1962 and 1985. The building was used to assemble explosive actuators in support of defense programs. Prior to demolition, residual explosive materials and contamination from a carcinogenic material known as MOCA were removed. In addition, 90 cubic yards of asbestos were abated. Demolition of the building and foundation is expected to take 11 weeks.

BWXT of Ohio is the remediation contractor for the DOE Miamisburg Environmental Management Project at the Mound site in Miamisburg, Ohio. More than 40 percent of the site's 305 acres have been transferred to the Miamisburg Mound Community Improvement Corporation for reuse and economic development as a technology and industrial park. Since it assumed responsibility for remediating the Mound site October 1, 1997, BWXTO has demolished, removed or has worked with the Department of Energy to transfer to the community approximately half of the buildings at the Mound site.

BWXTO is a unit of BWX Technologies, Inc., (BWXT) of Lynchburg, Va., a diversified manufacturer of nuclear components and advanced energy products, that manages U.S. Department of Energy sites in ten states. BWXT is a wholly-owned subsidiary of McDermott International, Inc., (NYSE: MDR) a leading worldwide energy services company. The company and its subsidiaries manufacture steam-generating equipment, environmental equipment, and products for the U.S. government. They also provide engineering and construction services for industrial, utility, and hydrocarbon processing facilities, and to the offshore oil and natural gas industry.



BWXT of Ohio, Inc.
P.O. Box 3030
Miamisburg, OH 45343-3030

Contact: Craig Hansen
937/865-4852
(FAX) 937/865-3952

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DOE NEWS

U.S. DEPARTMENT OF ENERGY • OHIO FIELD OFFICE • MIAMISBURG, OH 45342

News from **BWX Technologies, Inc.**

a McDermott company

A JOINT PRESS STATEMENT
FOR IMMEDIATE RELEASE

News Media Contact:
Jane Greenwalt, DOE (937) 865-3116
Craig Hansen, BWXTO (937) 865-4852

DEMOLITION OF "I" BUILDING COMPLETED FIVE MONTHS AHEAD OF SCHEDULE AT THE MOUND SITE

Teamwork, Innovation and Changes in Clean-up Philosophy, Are Reaping Significant Schedule Gains

MIAMISBURG, OHIO, April 29, 2002 – The U.S. Department of Energy (DOE) contractor responsible for cleaning up its Mound site in Miamisburg, BWXT of Ohio (BWXTO) has completed the demolition of "I" Building five months ahead of its 2006 closure schedule. The 26,736 square foot brick reinforced concrete building was used to assemble explosive actuators. Prior to its demolition residual explosive materials and contamination from a carcinogenic material known as MOCA were removed from the building.

"This is the type of progress that can be achieved through solid teamwork, close coordination with the regulators, and a motivated workforce looking for innovative solutions." Stated Rick Provencher, DOE Director of the Miamisburg Environmental Management Project. Provencher, and BWXT of Ohio managers have been actively working to open communications among team members, eliminate unnecessary paperwork, and identify and correct potential problems early in the process.

"To complete this type of clean-up and demolition safely and without impact to the community is very complex," stated Sandy Baker, President of BWXTO, and Site Manager. "The fact we completed the entire effort five months early is a testament to the competence of the workers, and the success of our re-engineering efforts." BWXTO is currently working to a schedule for closure and transition of the Mound site in 2006, but has publicly stated current progress on that schedule will allow closure in 2005.

"It's the highly skilled, highly motivated workers at Mound that will make that happen," stated Budd Thompson, the Project Manager who oversaw the demolition of "I" Building. "These guys are really good," Thompson continued, "They've learned from past building demolitions and can quickly and safely bring things down." Thompson described the process in which heavy equipment operators study the structure of the building before starting work. He said by the time they begin, they know the sequence of demolition and where to cut to safely demolish the structure.

DOE has transferred more than 40 percent of the site's 306 acres to the Miamisburg Mound Community Improvement Corporation for reuse and economic development as a technology and industrial park.

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A publication of the Department of Energy Miamisburg Environmental Management Project

NEW DIRECTIONS

NEWS BRIEFS

April 2002

Path to the Future

April 2002						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

May 2002						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

June 2002						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

UPCOMING EVENTS

APRIL 2002

April 12 – Mound Action Committee (MAC) & Mound Reuse Committee (MRC), meetings were canceled.

April 24 – Update To The Community
April 27 – Earth Day display at Community Park Learning Center

MAY 2002

May 10 – Mound Action Committee (MAC) meeting, 9 a.m.-10 a.m. Miamisburg Civic Center, Community Room

May 10 – Mound Reuse Committee (MRC), 10 a.m., Miamisburg Civic Center, Community Room

JUNE 2002

June 14 – Mound Action Committee (MAC) meeting, 9 a.m.-10 a.m. Miamisburg Civic Center, Community Room

June 14 – Mound Reuse Committee (MRC), 10 a.m., Miamisburg Civic Center, Community Room

DOE Continues on Path to Closure of the Mound Site

The demolition of "I" building is underway and is being completed ahead of schedule. The next building to be demolished is 51. This concrete block building was constructed in 1972 and contains 3,541 square feet. It has housed four distinct categorical types of missions (environmental, radionuclides production and research, federal agency support, and explosives and detonator-related activities). In the 1980's Building 51 housed a "Star Wars" related program, in support of the Nations "Strategic Defense Initiative" defense programs. It also supported a program at Sandia National Laboratory for

(Continued on page 2)

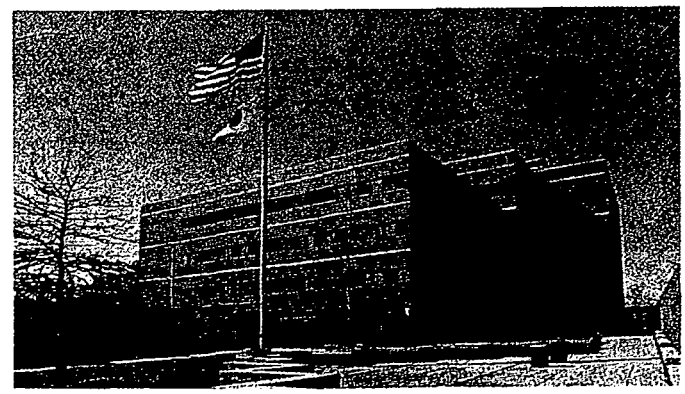
Have you heard about the accelerated closure and transition at the U.S. Department of Energy Mound facility in Miamisburg? Come see for yourself on Wednesday, April 24, 2001

What: UPDATE TO THE COMMUNITY

When: 6:00 p.m.-8:00 p.m.

Where: Community Park Learning Center
550 First St.
Miamisburg, Ohio

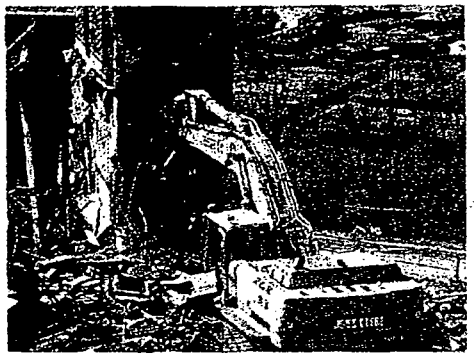
hosted by the
U.S. Department of Energy
Miamisburg Environmental Management Project
BWXT of Ohio, Inc.



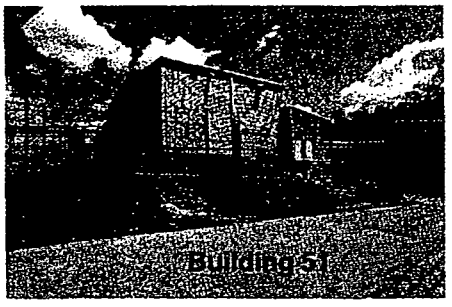
Also joining us will be the Mound Museum Association.

the development of a lithium battery. Asbestos abatement is currently being performed and the actual demolition will likely begin the first week of April and last two to three weeks.

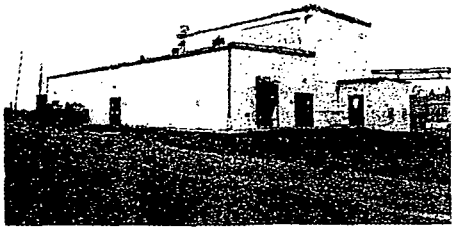
Building 51 demolition will be followed by the demolition of Building 29, which will take three to five weeks to complete. Building 29 was constructed in 1965, has interior and exterior concrete walls and contains 6,601 square feet. The building was used for plastics formulation and manufacturing.

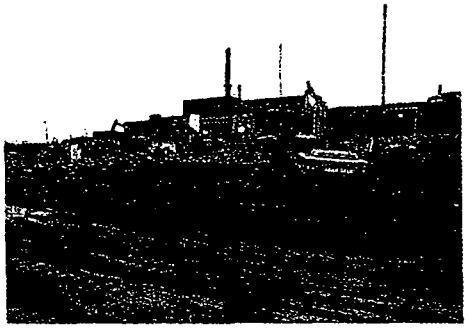


I Building Demo



Building 29





I Building Demolition Site

Information and Resources

There are a number of resources for information concerning cleanup activities at the Mound site. Resources include the DOE CERCLA Public Reading Room; the FOIA Reading Room at the site; U.S. and Ohio Environmental Protection Agencies; Ohio Department of Health; and the Agency for Toxic Substances and Disease Registry, the DOE Ohio Field Office Web Page, and the MEMP Web Page.

U.S. Environmental Protection Agency
Tim Fischer (312)886-5787

U.S. Dept. of Energy
www.doe.gov

Ohio Environmental Protection Agency
Brian Nickel (937) 285-6468
http://offo2.epa.state.oh.us/MOUND/mound.htm

U.S. DOE Ohio Field Office
www.ohio.doe.gov

Ohio Department of Health
Celeste Lipp (614)728-0395

DOE Miamisburg Env. Management Project
www.doe-md.gov

Agency for Toxic Substances & Disease Registry
The ATSDR can be contacted by writing: Agency for Toxic Substances and Disease registry, 1600 Clifton Rd., or by phone at (404) 639-0730.

U.S. Department of Energy

Miamisburg Environmental Management Project
One Mound Road
P.O. Box 66
Miamisburg, OH 45343-0066

Rick Provencher
Director
Oba Vincent
Deputy Director
Jane Greenwalt
Public Affairs Officer
jane.greenwalt@ohio.doe.gov

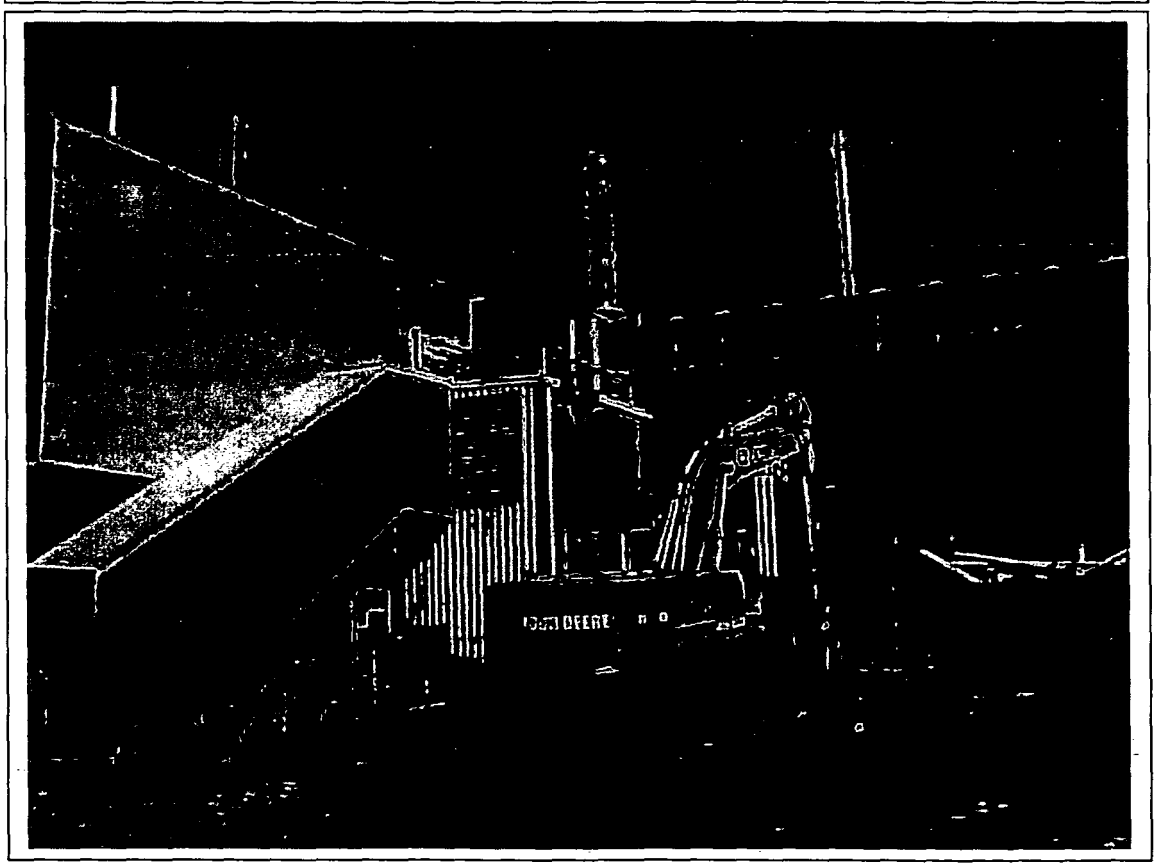
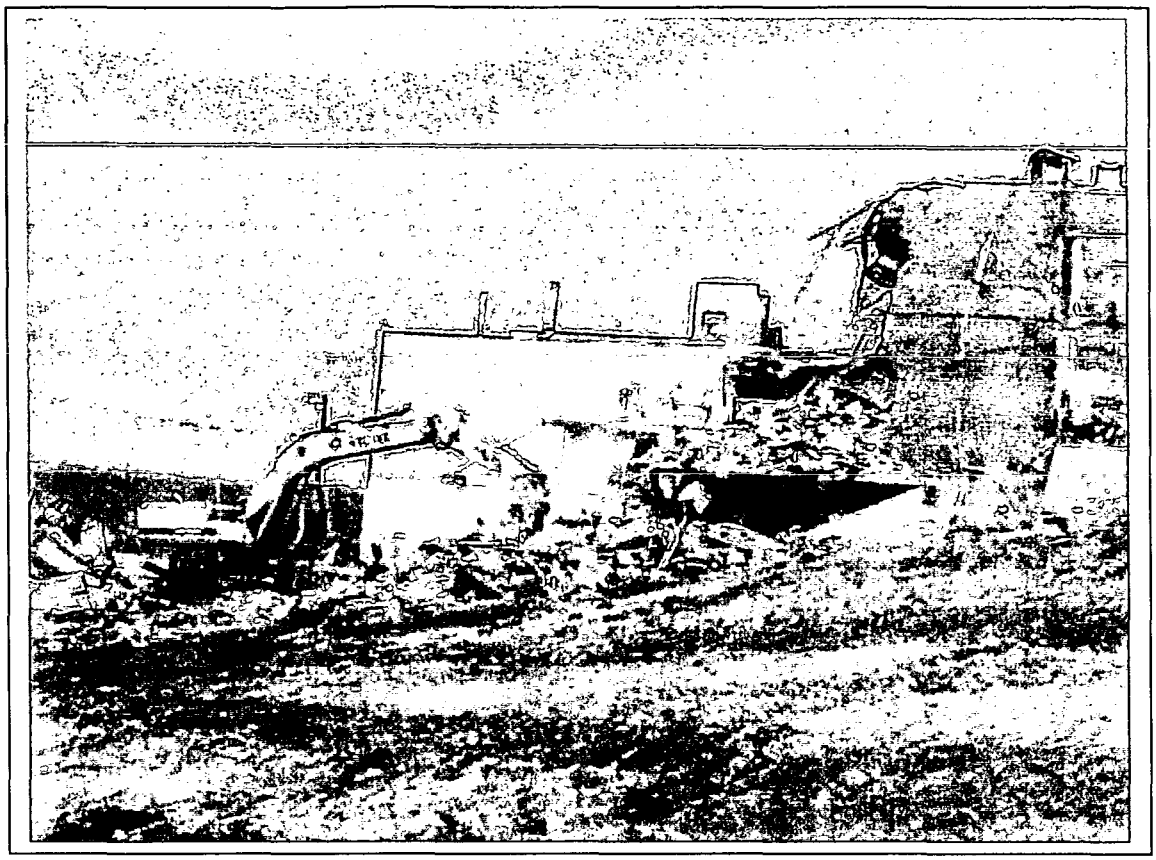
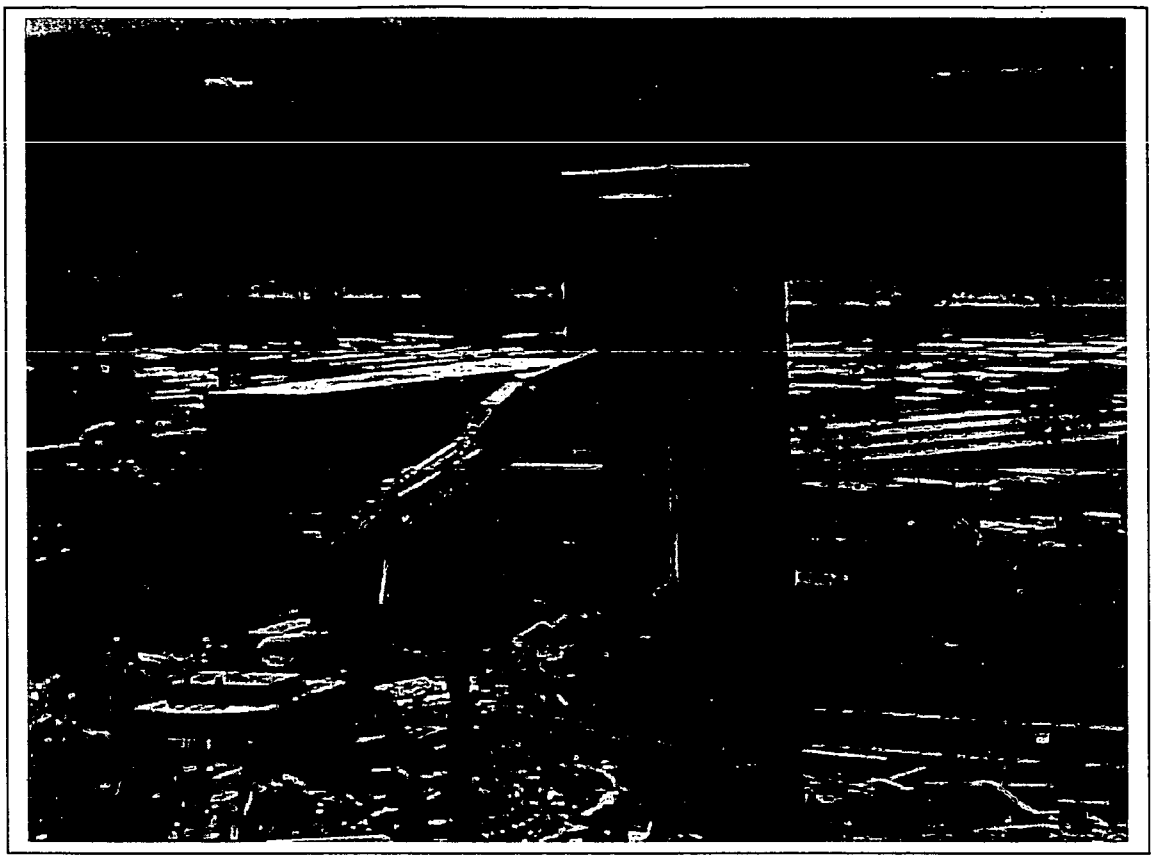
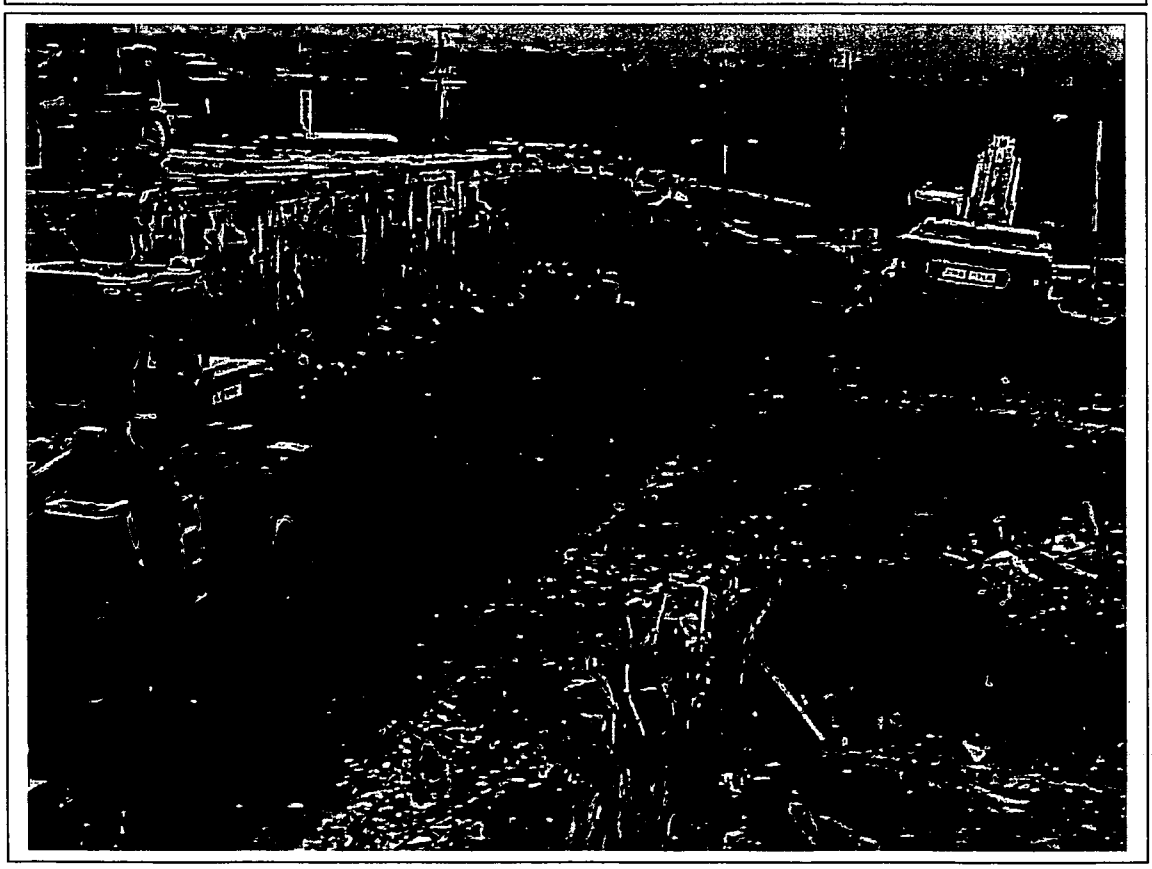
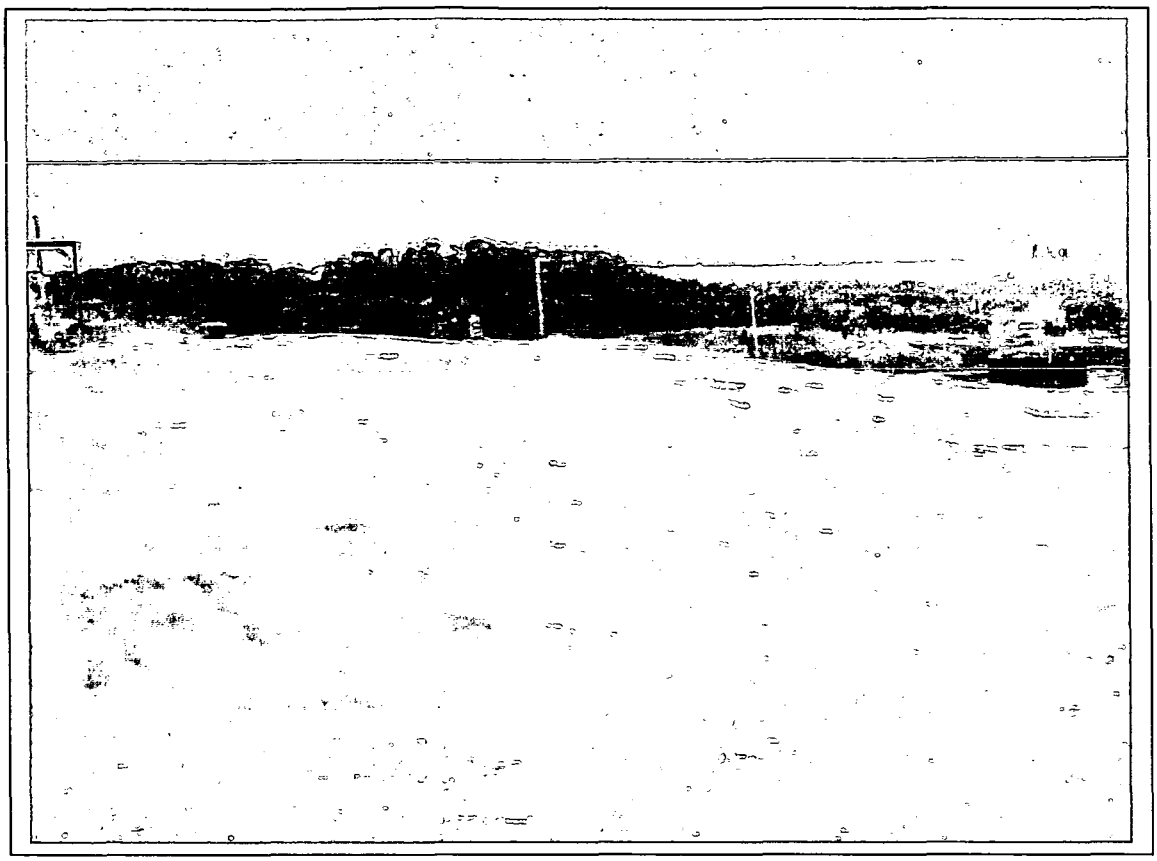
Citizens Encouraged to use Public Reading Room
Miamisburg Senior Adult Center
305 Central Avenue
Miamisburg, OH 45342

Hours:
Mon. & Wed. 12pm-8pm
Tues. 8:30am-1pm & 4pm-8pm
Thurs. 8:30am-1pm
Fri. 10:30am-4:30pm
Closed Saturdays &

Miamisburg Environmental Management Project
Office of Public Affairs
P.O. Box 66
Miamisburg, OH 45343-0066

Questions can be referred to *Jane Greenwalt*, DOE Public Affairs Officer at (937) 865-3116 or by e-mail at jane.greenwalt@ohio.doe.gov.

APPENDIX E

PHOTOGRAPH DOCUMENTATION

I Building Demolition / Site Restoration