Remedial Action Report

for

Monticello, Utah, Vicinity Properties
National Priority List Site

Operable Unit A

January 1997

Prepared for
U.S. Department of Energy
Albuquerque Operations Office
Grand Junction Office

Prepared by
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MASTER

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REMEDIAL ACTION REPORT
OPERABLE UNIT A
MONTICELLO VICINITY PROPERTIES SITE

Approved by: Terry L. Anderson 1.13.97
Terry L. Anderson, Director Date
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Certification of Construction Completion

The remedial action conducted at Operable Unit A of the Monticello Vicinity Properties National Priorities List Site, San Juan County, Utah, was implemented in accordance with approved project plans and procedures, unless otherwise noted in this report.

Construction completion certified by:

Michael K. Tucker
for George J. Rael
Acting Manager
U.S. Department of Energy
Grand Junction Office

January 6, 1997
Date

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Acronyms

CFR	<i>U.S. Code of Federal Regulations</i>
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
FFA	Federal Facilities Agreement
GJO	Grand Junction Office
IVC	independent verification contractor
MMTS	Monticello Mill Tailings Site
MRAP	Monticello Remedial Action Project
MVP	Monticello Vicinity Properties
NPL	National Priorities List
ORNL	Oak Ridge National Laboratory at Grand Junction
OU	Operable Unit
RAA	Remedial Action Agreement
RAR	Remedial Action Report
REA	Radiological and Engineering Assessment
ROD	Record of Decision
SFMP	Surplus Facilities Management Program
V-area	verification area

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Executive Summary

Uranium and vanadium milling activities were conducted by and for the U.S. Atomic Energy Commission in Monticello, Utah, between 1942 and 1959, which resulted in the production of mill tailings containing radioactive materials. The tailings were wind blown and used to a limited extent for construction purposes in the Monticello area. In 1984, the U.S. Department of Energy Grand Junction Office implemented the Monticello Vicinity Properties Project to isolate tailings-related sources from the environment and thereby prevent them from causing harm to human health or the environment.

Remedial action is complete at Operable Unit A of the Monticello Vicinity Properties Project, which consists of 104 properties within the city limits of Monticello, Utah. These properties have been reconstructed and, pending the outcome of possible postconstruction activities on six properties, can be recommended for certification of conformance to project guidelines.

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I. Introduction

The U.S. Department of Energy (DOE) Grand Junction Office (GJO) prepared this Remedial Action Report (RAR) for Operable Unit (OU) A at the Monticello Vicinity Properties (MVP) National Priorities List (NPL) Site located in San Juan County, Utah (Figure 1). This report documents that construction is complete in conformance with the U.S. Environmental Protection Agency (EPA) *Close Out Procedures for National Priorities List Sites* (EPA 1995b).*

The 104 properties comprising OU A (Appendix Plate 1) were designated in the Federal Facilities Agreement (FFA) (DOE 1988). The selected remedy specified in the MVP Record of Decision (ROD) (DOE 1989) was to remove radioactive material from the properties or to modify existing structures to isolate radiation sources from inhabitants. The radioactive material, consisting of uranium mill tailings, ore, and related byproduct material, originated from the nearby DOE NPL Monticello Mill Tailings Site (MMTS). The radioactive material was primarily transported by wind onto the properties or, to a limited extent, incorporated as fill on the properties and/or as aggregate in mortar and concrete structures. Remediation construction began in 1984, prior to adoption of the ROD or the FFA. The removed radioactive material was transferred to the MMTS repository for interim storage, pending permanent disposal.

The primary purpose of the remedial action at OU A, as specified in the ROD, was to limit exposure to radioactive material to levels protective of human health and the environment. These levels are specified as standards for radium, radon and radon daughters, and gamma exposure rates in Title 40, *U.S. Code of Federal Regulations*, Part 192 (40 CFR 192). Remediation of these properties was conducted in accordance with approved designs, and construction on these properties is complete. Postconstruction activities at six OU A properties are necessary to achieve conformance with project standards; these activities will address owner or site-specific issues that arose after the remedial action was designed or constructed (see Appendix Table 2). Programatic activities that must be completed prior to closeout of OU A are summarized in Appendix Table 3. Pending an acceptable outcome of these activities and concurrence by EPA and the State of Utah on all OU A Property Completion Reports, the properties of OU A can be recommended for certification by DOE of conformance to MVP project standards.**

II. Chronology of Events

1980	DOE accepted the Monticello Remedial Action Project (MRAP) into Surplus Facilities Management Program (SFMP).
1983	MVP Project established as separate from MRAP.
1/13/84	First DOE MVP Radiological and Engineering Assessment (REA), required to commence remediation construction activities, approved by the State of Utah.

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*This guidance specifies that the construction completion milestone is attained when all physical construction on a site has been completed. For MVP, this occurs when all construction activities have been completed in accordance with approved plans and procedures, as indicated by contractor acceptance of the subcontractor's work by signing a Notice of Final Completion Inspection for each individual property.

** In this report, where DOE is certifying construction completion, the phrase "certification of construction completion" or equivalent is used. Where DOE is certifying that remedial action activities have resulted in achieving conformance with applicable or relevant and appropriate regulations, the phrase "certification of conformance to MVP project standards" or equivalent is used. DOE will certify construction completion by signing this report. DOE will certify conformance to MVP project standards for individual properties by signing a Vicinity Property Certification Summary and Recommendation that accompanies each Property Completion Report.

Figure 1. Monticello Vicinity Properties Site, Monticello, Utah

1984 Construction began on first MVP property.

10/84 MVP proposed for inclusion on NPL.

6/10/86 MVP listed on NPL.

12/88 FFA became effective.

11/29/89 MVP ROD signed.

5/13/94 Large Area Verification protocol approved by EPA.

5/15/96 Construction complete at last OU A property.

9/30/96 RAR for MVP OU A reviewed and comments provided by EPA and the State of Utah.

III. Performance Standards and Construction Quality Control

Applicable or Relevant and Appropriate Requirements—The relevant and appropriate regulation identified in the MVP ROD (40 CFR 192) specifies the following maximum radium-226 (Ra-226) concentrations for exterior locations and uninhabitable structures.

- 5 picocuries per gram (pCi/g) above background in the first 15 centimeters (cm) of soil, averaged over 100 square meters (m²); and
- 15 pCi/g above background in any 15-cm interval more than 15 cm below the surface, averaged over 100 m².

The standards specified in 40 CFR 192 for occupied or habitable structures are:

- Radon Decay-Product Concentrations (RDCs): 0.02 working level (WL) to the extent practicable, 0.03 WL maximum; and
- Gamma Exposure Rates: a maximum of 20 microroentgens per hour (μR/h) above background.

Additionally, the ROD identifies the "hot-spot" criteria specified in the *Guidelines for Residual Radioactive Material at Formerly Utilized Sites Remedial Action Program and Remote Surplus Facilities Management Program Sites* (DOE 1987) as relevant and appropriate. The hot-spot criteria specify the maximum radionuclide concentration allowable for a deposit of contamination of a given size.

Quality Control—All remedial activities at OU A were conducted in accordance with approved plans and procedures, including the DOE-GJO Contractor's *Quality Control Manual* (Manual 101), which was implemented through the *Monticello Properties Quality Assurance Program Plan* (DOE 1995). These documents included the applicable provisions of the *Quality Assurance Program for Nuclear Facilities*, NQA-1 (ASME 1989) and, after October 1994, 10 CFR 830.120, "Quality Assurance Requirements," as well as DOE Order 5700.6C, *Quality Assurance*, and the *American National Standards Specifications and Guidelines for Quality Systems for Environmental Data Collection and Environmental Technology Programs*, ANSI/ASQC E-4 (ASQC 1994).

Assessment surveys to identify the extent of contamination and postremedial action surveys to verify compliance with cleanup guidelines were conducted in accordance with the DOE-GJO Contractor's *Field Assessments Procedures Manual*. This manual also contains procedures for equipment maintenance, calibration, and operation; and data reduction and reporting.

The protocols for DOE-GJO contractor performance of MVP soil and structural sample analysis, quality assurance and quality control, and reporting are documented in the DOE-GJO Contractor's *Analytical Chemistry Laboratory Administrative Plan and Quality Control Procedures*, *Analytical Chemistry Laboratory Handbook of Analytical and Sample Preparation Procedures*, Volumes I, II, and III, and the *Gamma-Ray Spectroscopy System Operations Methods Manual*. Laboratory analyses were conducted at the DOE-GJO facility.

The protocols for DOE-GJO contractor MVP remediation subcontract solicitation and award are documented in the DOE-GJO Contractor's *Procurement Manual* (Manual 313).

The protocols for DOE-GJO contractor performance of MVP remedial subcontract oversight and inspection are documented in the DOE-GJO Contractor's *Operations Department Construction Procedures Manual* (Manual 304) and the *Monticello Projects Office Desktop Procedures Manual*.

Oak Ridge National Laboratory at Grand Junction (ORNL) was the independent verification contractor (IVC) for MVP OU A remediation activities. ORNL provided 100 percent Type A verification of DOE-GJO Contractor remediation activities (document review), and 10 percent Type B verifications, which included verification of field surveys and measurements, physical sampling, and laboratory analyses. IVC activities were conducted in accordance with the *Work Plan for Independent Verification for the Monticello Remedial Action Project and the Monticello Vicinity Properties Project* (ORNL 1992). All ORNL laboratory analyses of DOE-GJO Contractor's sample splits were performed at the DOE-GJO Analytical Laboratory in conformance with the DOE-GJO Analytical Chemistry Laboratory manuals.

The Property Completion Reports for 97 OU A properties warrant that DOE has achieved performance standards, and the properties and habitable structures have been restored to the satisfaction of the property owners. A no-action remedial action alternative was approved for another property.

Construction has been completed on the remaining six OU A properties but postconstruction activities are not complete and these properties can not yet be recommended for certification of conformance to MVP project standards. Postconstruction RDC measurements have not been obtained for two of the remaining properties. Postconstruction RDC levels exceeded 0.03 WL on four properties. These properties will be addressed in accordance with the methodology and schedule to be set forth in the MRAP Action Plan to mitigate elevated RDCs, as specified in the July 1996 *Monticello Site Management Plan* (DOE 1996).

IV. Construction Activities

Remediation Process—Individual properties typically proceeded through a remediation process that began with an initial survey for radiological contamination and culminated in certification of conformance to project standards.

After obtaining permission for access from individual property owners, an inclusion survey was conducted by DOE, ORNL, or the DOE-GJO Contractor to determine whether the property qualified for inclusion into the MVP Project. Properties were excluded from the project and no further action was taken when radiological contamination exceeding project standards was not detected. When contamination exceeding the release standards was detected, property owners were notified by DOE of mandatory inclusion of the

properties into the MVP Project. Property owners signed a Remedial Action Agreement (RAA), which granted access to the property for construction and surveys, and defined any construction completion requirements or remuneration for structure demolition or dislocation. The DOE-GJO Contractor performed a more detailed assessment survey that was used as the basis for a remedial action design and cost estimate. A Radiological and Engineering Assessment report was prepared and approved by DOE for the State of Utah, Department of Environmental Quality, concurrence. This report presented the assessment survey results and the remedial action design.

The DOE-GJO Contractor solicited and awarded subcontracts for the remedial actions at OU A properties. Prior to commencement of remedial action construction activities, the DOE-GJO Contractor, the construction subcontractor, and the property owner signed a preconstruction inspection form that documented existing property conditions. Throughout the subcontracted excavation and construction activities, DOE-GJO Contractor personnel provided oversight and management. Construction continued until DOE-GJO Contractor verification survey results indicated that all assessed contamination was remediated to within the project cleanup standards. Independent verification of attainment of project guidelines was provided by ORNL. Upon conclusion of the remedial action construction activities, the DOE-GJO Contractor, the construction subcontractor, and the property owner signed a final inspection form indicating approval of the property restoration. Reconstruction work was warranted for one year by DOE to be free from defects. Each property was reconstructed to a state equivalent to its original condition.

A Property Completion Report was prepared for each remediated property, which included the legal description of the property, the name and address of the owner, and a summary of the results of the assessment and verification surveys, and remediation activities. Each report was reviewed by ORNL prior to DOE signature. All reports for properties that meet the release criteria have been forwarded to EPA and the State of Utah for concurrence, after which the reports will be entered into the Administrative Record.

Radiological Survey Procedures—During assessment, 100 percent of each property was scanned at ground level for gamma activity, and areas where gamma activity exceeded background levels by 30 percent were delineated. Soil samples or in-situ instrument measurements were collected at locations of high gamma activity and analyzed for Ra-226. Subsurface explorations were located in areas of elevated gamma activity to determine the vertical extent of the radioactive material. Gamma logs and samples of the subsurface soil were collected and analyzed. One hundred percent of the lowest habitable level and, if different, the ground floor of all structures were scanned for gamma activity.

Prior to excavation, contaminated areas were again delineated. Excavation proceeded horizontally and vertically until gamma scans of the excavated area indicated that contamination levels did not exceed project guidelines. One hundred percent of the excavation floor was gamma scanned and exterior areas were verified according to standard or large area verification protocol (EPA 1994).

For verification following standard protocol, a 10- by 10-foot (3- by 3-meter) grid was established on the excavation floor, and a sample aliquot from the top 6 inches (15 centimeters) of soil was collected from the center of each grid block. The excavation was divided into approximately 100-m² (1,076 square feet [ft²]) verification areas (V-areas) and the aliquots for each V-area were composited and analyzed. For large area verification, a 30- by 30-foot (9- by 9-meter) grid was established on the excavation floor and a soil sample aliquot was collected from the point of highest gamma activity within each grid block. The excavation was divided into V-areas not exceeding 1,000 m² (10,800 ft²) and aliquots from each V-area were composited and analyzed. All samples were analyzed for Ra-226 in the field using the Opposed Crystal System. Ten percent of the composite samples were analyzed in the DOE-GJO Analytical Laboratory for Ra-226, thorium-230, and potassium-40. Large area verification was not used within 10 feet of a habitable structure and could only be used for excavations of at least one-half acre (2,000 m²).

Occasionally, some radioactive material was left in place because removing it would damage a structure or a mature tree or would expose personnel to unsafe conditions. Contaminated material left in place was measured and the average Ra-226 concentration for the 100-m² area surrounding the contamination was compared to the standard; if contaminant levels were below the standard, no further remediation was conducted. Also, the Ra-226 concentration was compared to the computed hot-spot limit. Occasionally, solid surfaces (e.g., mortared brick and concrete) were verified using in-situ measurements of Ra-226 content. Unremediated areas were determined to not be contaminated on the basis of gamma exposure rates that did not exceed background by more than 30 percent. Backfill materials were measured at the source and determined to be uncontaminated.

Interior areas were gamma scanned to ensure that all radiological contamination was removed. An RDC measurement was taken to ensure compliance with interior standards. Year-long RDC measurements using passive alpha track detectors were used until 1995, when EPA approved the use of a 3-month-long measurement during a fall or spring window shown to be representative of annual average RDC levels (EPA 1995a). In 1995, DOE and EPA approved the use of preconstruction RDC measurements as a cost- and time-saving measure for properties with no interior removal.

If the extent of contamination on the properties was minor, a streamlined remediation procedure was followed. This protocol allowed the assessment crew to remove contamination, either by hand or by using subcontractor equipment and personnel on an extension of an existing contract, and to perform a verification survey. A streamlined remediation property did not proceed through the design and procurement stages.

Radiological survey equipment calibration and operation, and physical sampling and analysis were conducted in conformance with protocols specified in GJO guidelines and planning documents available in the MRAP Administrative Record. Property portfolios containing all relevant remediation documentation, including radiological survey results (dates, weather, equipment calibration, sample collection and analyses, etc.) owner notification, the REA and RAA, subcontract activities and oversight, and owner inspection and approval, are archived at DOE-GJO.

Construction Summary—Appendix Table 1 presents DOE identification numbers and street addresses for MVP OU A properties, as well as survey and construction activity information. This information includes the dates of property inclusion by DOE, DOE and Utah approval of the REA, owner signature of the RAA, construction start and completion,* ORNL independent verification of the Property Completion Report, DOE certification of the Property Completion Report, remediated volumes and areas, and current property status. Current property status includes Completion Report submitted for EPA concurrence, RDC failure, or RDC pending.

Remediation activities on OU A resulted in removal of 467 cubic yards (yd³), or 357 cubic meters, of radioactive material from interior areas and 59,591 yd³ (45,560 cubic meters) of radioactive material from exterior areas. The total remediated area was 115,870 m² (138,530 square yards).

Additional activities must be completed on six properties before OU A can be recommended for certification of conformance to project standards. The schedule for completing these postconstruction activities is presented in Appendix Table 2. A summary of actions to be completed before Operable Unit A can be recommended for certification by DOE of conformance to project standards is presented in Appendix Table 3.

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* The date shown in Table 1 is the date the property owner signed the Notice of Final Completion Inspection form, at which time construction was considered complete.

MVP Project personnel routinely shared information about process innovations and improvements that increased efficiency and reduced hazards; and introduced productivity and safety improvements into the remediation process as they became viable. These improvements included the large area verification protocol, streamlined remediation procedures, owner relations and public awareness programs, scheduling and administration improvements, failed-RDC action plans, and other lessons learned. The lessons-learned process for MVP will be formalized and a facilitated lessons-learned session will be convened to document these improvements. Additional sessions may be convened as MVP remediation activities enter new phases, such as possible nonradiological hazardous waste property remediation. The findings of these sessions will be summarized in the Preliminary Close-Out Report.

V. Final Inspection

A Prefinal Inspection will be conducted at the OU A site. Tours of the individual properties will be conducted by DOE-GJO. An updated list of incomplete construction items (RDC failures, etc.) will be provided to the attendees at that time. A list of attendees and a revised "punch list" of items requiring resolution will be appended to this report. As-built drawings will be finalized.

On the basis of the results of the Prefinal Inspection, EPA, with the concurrence of the State of Utah Department of Environmental Quality, will determine whether a Final Inspection is required.

VI. Certification that the Remedy Is Operational and Functional

On the basis of verification survey results, DOE has determined that construction at MVP OU A is complete. Pending completion of postconstruction activity on six properties, all identified radiological hazards have been removed or mitigated to below the limits specified in 40 CFR 192 and the hot-spot criteria. Reconstruction activities conform to current building codes and standards, and no physical hazards remain as a result of these activities. All property owner concerns have been resolved. Excavated materials are currently managed in a temporary repository pending completion of a permanent repository.

VII. Operation and Maintenance Plan

Upon EPA and State of Utah concurrence with all OU A Property Completion Reports, the selected remedy will be complete and no operation or maintenance plan will be required. Outstanding issues are identified in Appendix Table 3. Upon completion of those items, OU A will be eligible for inclusion in the subsequent MVP Preliminary Close Out Report.

VIII. Summary of Project Costs

Remedial activities at some of the properties included in OU A commenced prior to adoption of the MVP ROD. The ROD did not include an estimate of remedial action costs by operable unit, but stated that average costs to date had been approximately \$65,000 per vicinity property. The remedial action costs to date for OU A total \$7,759,000 at an average cost of \$74,600 per property. Some additional expense may be incurred as a result of mitigation actions at the remaining OU A RDC failure properties.

IX. References

10 CFR 830, U.S. Department of Energy, "Nuclear Safety Management," *U.S. Code of Federal Regulations*.

40 CFR 192, U.S. Environmental Protection Agency, "Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings," *U.S. Code of Federal Regulations*.

American Society for Quality Control (ASQC), 1994. *American National Standards Specifications and Guidelines for Quality Systems for Environmental Data Collection and Environmental Technology Programs*, ANSI/ASQC E-4, January 3.

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Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986], amended February 24, 1989.

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_____, 1995. *Monticello Properties Quality Assurance Program Plan*, P-GJPO-123, prepared by the DOE-GJO Contractor for the U.S. Department of Energy Grand Junction Office, Grand Junction, Colorado.

_____, 1996. *Monticello Site Management Plan*, P-GJPO-911, prepared by the DOE-GJO Contractor for the U.S. Department of Energy Grand Junction Office, Grand Junction, Colorado, July.

U.S. Environmental Protection Agency, 1994. Letter from J.M. Robles of Region VIII to D.L. Leske of DOE-GJO accepting the Large Area Verification Protocol for the Monticello, Utah, Vicinity and Peripheral Properties, May 19.

_____, 1995a. "Acceptance of the Prompt Alpha-Track Study for the Monticello, Utah, Vicinity and Peripheral Properties," letter from J.M. Robles of Region VIII to M.A. Rondinella of DOE-GJO, April 27.

_____, 1995b. *Close Out Procedures for National Priorities List Sites*, September, 1995

DOE Order 5700.6C, *Quality Assurance*, 1991.

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Appendix

- Table 1. Operable Unit A Construction Summary
- Table 2. Postconstruction Activities Identification and Schedule
- Table 3. Activities to be Completed Prior to the Final Close-Out Report
- Plate 1. Monticello Vicinity Properties Operable Unit A

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Appendix Table 1. Operable Unit

DOE ID Number	Property Address	Grid Coordinates (see Plate 1)	Inclusion Date	REA-DOE Approval	REA-Utah Approval	RAA Owner Approval	Construction Dates	
							Start	Complete
MS-00012-RS	380 Abajo Dr	M6	06/08/84	03/17/89	03/17/89 ^b	04/17/89	07/06/89	
MS-00014-RS	165 North 1st West St	I8	01/27/84	08/28/84 ^b	08/28/84 ^b	04/20/85	06/20/85	
MS-00016-MR	65 South 2nd West St	K8	03/01/89	08/09/89	08/09/89 ^b	08/29/89	09/12/89	
MS-00022-RS	216 Uranium Dr	P7	10/14/88	03/17/89	03/17/89 ^b	04/21/89	05/09/89	
MS-00025-RS	516 Circle Dr	P8	03/01/89	10/03/89	10/03/89 ^b	11/01/89	05/08/90	
MS-00028-RS	197 Lower Uranium Dr	P8	10/14/88	03/17/89	03/28/89 ^b	04/17/89	06/19/89	
MS-00030-RS	564 Circle Dr	P8	03/01/89	10/05/90	10/09/90	01/10/91	05/15/91	
MS-00031-RS	96 West 2nd North St	I9	02/21/91	06/03/93	12/10/93	02/03/94	09/23/94	
MS-00040-VL	280 South Main St	M9	03/01/89	03/29/90	03/26/90	05/21/90	06/11/90	
MS-00041-CS	280 South Main St	M9	11/01/84	07/18/85	07/18/85 ^b	08/12/85	09/25/85	
MS-00042-CS	296 South Main St	N9	02/25/85	07/18/85	07/18/85 ^b	08/12/85	09/25/85	
MS-00043-CS	296 South Main St	M9	06/08/84	07/18/85	07/18/85 ^b	08/12/85	09/25/85	
MS-00048-RS	470 South Main St	P9	03/01/89	03/19/90	03/19/90 ^b	03/26/90	04/30/90	
MS-00049-VL	480 South Main St	P9	06/08/84	05/02/85	05/02/85 ^b	06/19/85	08/12/85	
MS-00050-RM	496 South Main St	P9	01/27/84	07/16/84 ^b	07/16/84 ^b	08/07/84	09/10/84	
MS-00053-RS	64 East 5th North St	F10	03/01/89	10/03/89	10/03/89 ^b	11/15/89	04/09/90	
MS-00054-RS	132 East 5th North St	F11	03/01/89	10/03/89	10/03/89 ^b	11/03/89	04/09/90	
MS-00055-RS	432 North Main St	G10	10/14/88	03/17/89	03/17/89 ^b	04/12/89	06/19/89	
MS-00059-CS	181 South Main St	L10	06/08/84	01/13/84 ^b	01/13/84 ^b	02/16/84 ^b	03/14/84	
MS-00062-RS	316 South 1st East St	N10	10/14/88	03/29/89	03/29/89 ^b	04/21/89	06/23/89	
MS-00068-RS	449 South Main St	O10	03/01/89	08/09/89	08/09/89 ^b	08/29/89	09/12/89	
MS-00069-MR	96 East 4th South St	O10	06/08/84	05/02/85	05/02/85 ^b	06/30/88	08/29/88	
MS-00071-RS	464 South 1st East St	P10	06/08/84	07/28/86 ^b	07/28/86 ^b	05/28/87	10/08/87	
MS-00072-RS	493 South Main St	P10	03/01/89	03/19/90	03/19/90 ^b	03/26/90	04/30/90	
MS-00073-RS	65 East 5th South St	P10	01/27/84	07/16/84 ^b	07/16/84 ^b	08/02/84	09/10/84	
MS-00074-MR	87 East 5th South St	P10	01/27/84	07/23/84 ^b	07/23/84 ^b	08/31/84	09/10/84	
MS-00075-RS	16 East 5th South St	P10	01/27/84	07/16/84 ^b	07/16/84 ^b	07/30/84	09/10/84	
MS-00076-RS	98 East 5th South St	P10	01/27/84	07/23/84 ^b	07/23/84 ^b	08/31/84	09/10/84	
MS-00079-RS	181 East 1st South St	K11	03/01/89	03/19/90	03/19/90 ^b	03/26/90	04/30/90	

A Construction Summary

Location	Volume of Contaminated Material Removed (yd ³)		Area Remediated (m ²)	ORNL Completion Report Approval	DOE Certification	Status/Comments
	Interior	Exterior				
07/27/89	0	4	14	01/08/93	01/27/92	Completion Report Submitted (EPA)
08/27/85	2	57	158	12/04/91	07/30/91	Completion Report Submitted (EPA)
01/06/89	0	22	93	03/01/96	07/12/96	Completion Report Submitted (EPA)
06/12/89	0	4	9	12/04/91	01/27/92	Completion Report Submitted (EPA)
05/22/90	0	79	193	12/03/93	10/01/93	Completion Report Submitted (EPA)
07/27/89	0	23	49	04/09/93	11/01/96	Completion Report Submitted (EPA)
07/07/91	0	75	188	06/06/94	07/09/95	Completion Report Submitted (EPA)
11/04/94	0	49	99			Construction Completed ^c
07/06/90	0	79	161	07/28/95	07/12/96	Completion Report Submitted (EPA)
10/29/85	Note 1	Note 1	Note 1	12/04/91	11/01/96	Completion Report Submitted (EPA)
10/29/85	Note 1	Note 1	Note 1	12/04/91	11/01/96	Completion Report Submitted (EPA)
10/30/85	Note 1	Note 1	Note 1	12/04/91	11/01/96	Completion Report Submitted (EPA)
05/17/90	0	70	64	04/09/93	11/06/96	Completion Report Submitted (EPA)
10/29/85	0	41	23	12/04/91	07/30/91	Completion Report Submitted (EPA)
10/23/84	0	148	244	12/04/91	07/30/91	Completion Report Submitted (EPA)
04/19/90	0	46	72	06/02/95	07/12/96	Completion Report Submitted (EPA)
04/19/90	0	72	43	04/09/93	11/06/96	Completion Report Submitted (EPA)
08/22/89	0	7	15	12/10/93	07/12/96	Completion Report Submitted (EPA)
05/08/84	145	4	109	05/03/96	07/12/96	Completion Report Submitted (EPA)
09/15/89	0	115	486	08/27/93	09/25/93	Completion Report Submitted (EPA)
09/27/89	0	72	268	01/08/93	01/27/92	Completion Report Submitted (EPA)
09/27/89	0	1,067	994	12/04/91	07/30/91	Completion Report Submitted (EPA)
11/25/87	0	1,190	3,144	12/04/91	07/30/91	Completion Report Submitted (EPA)
05/31/90	0	34	88	04/09/93	11/07/96	Completion Report Submitted (EPA)
10/23/84	0	18	81	01/08/93	01/27/92	Completion Report Submitted (EPA)
11/01/84	52	464	743	12/04/91	07/30/91	Completion Report Submitted (EPA)
10/23/84	0	10	15	12/04/91	07/30/91	Completion Report Submitted (EPA)
11/01/84	0	415	739	12/04/91	07/30/91	Completion Report Submitted (EPA)
05/23/90	0	97	170			Postconstruction RDC Completed ^d

Appendix Table 1 (continued). Open

DOE ID Number	Property Address	Grid Coordinates (see Plate 1)	Inclusion Date	REA-DOE Approval	REA-Utah Approval	RAA Owner Approval	Con
							Start
MS-00083-RS	196 East 3rd South St	N11	01/27/84	07/16/84 ^b	07/16/84 ^b	08/02/84	05/08/85
MS-00084-OT	384 South 2nd East St	N11	01/27/84	07/23/84 ^b	07/23/84 ^b	08/28/84	09/10/84
MS-00085-RS	396 South 2nd East St	N11	01/27/84	05/02/85	05/02/85 ^b	06/24/85 ^b	08/12/85
MS-00086-RS	164 East 4th South St	O11	01/27/84	02/04/85 ^b	02/04/85 ^b	04/17/85	06/19/85
MS-00087-RS	148 East 4th South St	O11	01/27/84	07/16/84 ^b	07/16/84 ^b	08/02/84	09/06/84
MS-00088-RS	433 South 1st East St	O11	01/27/84	06/09/86	06/09/86 ^b	01/12/88	04/26/89
MS-00091-RS	265 East 1st South St	K12	11/01/84	02/21/86	02/21/86 ^b	03/26/86	08/11/86
MS-00092-RS	273 East 1st South St	K12	06/08/84	05/02/85	05/02/85 ^b	06/19/85	08/12/85
MS-00093-CS	80 South 3rd East St	K12	06/08/84	05/02/85	05/02/85 ^b	06/19/85	08/12/85
MS-00094-RS	281 East 1st South St	K12	06/08/84	05/02/85	05/02/85 ^b	06/19/85	08/12/85
MS-00096-RS	196 South 3rd East St	L12	03/01/81	01/13/84 ^b	01/13/84 ^b	01/13/84 ^b	06/06/84
MS-00097-CH	217 South 2nd East St	M12	06/08/84	05/02/85	05/02/85 ^b	04/16/86	08/19/86
MS-00099-RS	280 South 3rd East St	N12	06/08/84	05/02/85	05/02/85 ^b	04/11/86	08/19/86
MS-00100-CS	333 South 2nd East St	N12	06/08/84	01/28/87	02/05/87 ^b	05/31/88	07/14/88
MS-00101-RS	389 South 2nd East St	O12	01/27/84	04/04/96	04/19/96	01/24/87	05/04/87
MS-00102-MR	417 South 2nd East St	O12	06/08/84	05/28/85	05/28/85 ^b	06/01/87	09/08/87
MS-00103-VL	433 South 2nd East St	O12	06/08/84	05/28/85	05/28/85 ^b	01/24/87	05/04/87
MS-00104-VL	449 South 2nd East St	P12	06/08/84	08/06/86 ^b	08/06/86 ^b	01/24/86	05/04/87
MS-00114-RS	225 South 2nd East St	M12	10/09/85	04/21/86	04/21/86 ^b	04/16/86	08/19/86
MS-00124-MR	301 Silverstone West Ln	N3	09/25/89	11/12/93	01/07/94	02/04/94	05/24/94
MS-00126-MR	548 Circle Dr	P8	03/01/89	04/23/90	04/13/90	05/21/90	06/11/90
MS-00130-CS	76 West 3rd South St	N9	03/01/89	03/04/93	05/28/93	N/A	N/A
MS-00133-RS	217 & 233 South 3rd East St	M13	01/27/84	09/19/84 ^b	09/19/84 ^b	05/14/85 ^b	06/20/85
MS-00134-MR	216 South 3rd East St	M12	06/08/84	12/14/84	12/14/84 ^b	04/11/85	06/20/85
MS-00135-RS	196 South 2nd East St	M12	11/01/84	04/21/86	04/21/86 ^b	04/23/86	08/11/86
MS-00136-VL	EG & G Area 6	E9	06/08/84	05/23/86	05/23/86 ^b	06/23/86	09/24/86
MS-00137-CS	600 North Main St	E10	03/01/89	10/03/89	10/17/89	11/01/89	04/11/90
MS-00138-RS	281 East 3rd South St	N12	06/08/84	05/02/85	05/02/85 ^b	04/15/85	06/19/85

Table Unit A Construction Summary

Construction Dates		Volume of Contaminated Material Removed (yd ³)		Area Remediated (m ²)	ORNL Completion Report Approval	DOE Certification	Status/Comments
		Interior	Exterior				
	Complete ^a						
	06/19/85	2	172	843	12/04/91	07/30/91	Completion Report Submitted (EPA)
	11/01/84	0	365	917	12/04/91	07/30/91	Completion Report Submitted (EPA)
	09/25/85	0	577	1,954	12/04/91	07/30/91	Completion Report Submitted (EPA)
	09/25/85	0	844	1,062	01/08/93	01/27/92	Completion Report Submitted (EPA)
	10/23/84	0	1,250	1,313	12/04/91	07/30/91	Completion Report Submitted (EPA)
	06/12/89	32	2,704	5,031	04/09/93	11/06/96	Completion Report Submitted (EPA)
	09/19/86	0	128	474	12/04/91	07/30/91	Completion Report Submitted (EPA)
	10/29/85	Note 2	Note 2	Note 2	12/04/91	07/30/91	Completion Report Submitted (EPA)
	10/29/85	Note 2	Note 2	Note 2	12/04/91	07/30/91	Completion Report Submitted (EPA)
	10/29/85	Note 2	Note 2	Note 2	12/04/91	07/30/91	Completion Report Submitted (EPA)
	10/05/84	62	1,433	2,880	10/07/94	07/12/96	Completion Report Submitted (EPA)
	10/17/86	0	617	1,544	12/04/91	07/30/91	Completion Report Submitted (EPA)
	10/09/86	0	781	1,562	12/04/91	07/30/91	Completion Report Submitted (EPA)
	09/29/88	0	9,074	12,340	07/29/96	10/23/96	Completion Report Submitted (EPA)
	08/06/87	0	1,351	1,729			Postconstruction RDC in Process ^e
	09/30/87	25	702	1,904	10/20/95	07/09/95	Completion Report Submitted (EPA)
	08/06/87	0	5,008	8,035	12/04/91	07/30/91	Completion Report Submitted (EPA)
	05/15/96	0	5,012	8,217		10/28/96	Completion Report Submitted (EPA)
	10/17/86	0	511	1,748	12/04/91	07/30/91	Completion Report Submitted (EPA)
	06/30/94	0	7	22	07/29/96	11/01/96	Completion Report Submitted (EPA)
	07/07/90	0	173	293	06/06/94	07/12/96	Completion Report Submitted (EPA)
	N/A	N/A	N/A	N/A			No Action REA—DOE/State Approved
	08/27/85	1	288	1,519			Completion Report Resubmitted (ORNL) ^f
	08/27/85	6	157	497	12/04/91	07/30/91	Completion Report Submitted (EPA)
	10/07/86	0	200	623	12/04/91	07/30/91	Completion Report Submitted (EPA)
	10/28/86	0	733	1,158	12/04/91	07/30/91	Completion Report Submitted (EPA)
	04/18/90	0	147	354	09/18/92	11/07/96	Completion Report Submitted (EPA)
	09/25/85	1	405	1,149	12/04/91	07/30/91	Completion Report Submitted (EPA)

Appendix Table 1 (continued). Op

DOE ID Number	Property Address	Grid Coordinates (see Plate 1)	Inclusion Date	REA-DOE Approval	REA-Utah Approval	RAA Owner Approval	Cor
							Start
MS-00139-MR	365 South 2nd East St	N12	06/08/84	09/29/87	09/29/87 ^b	05/23/88	09/07/88
MS-00140-RS	381 East 3rd South St	N13	11/01/84	03/12/86	03/12/86 ^b	03/26/86	09/09/86
MS-00141-MR	393 East 3rd South St	N13	11/01/84	05/09/86	05/09/86 ^b	06/26/86	10/07/86
MS-00143-RS	544 East 3rd South St	N15	06/08/84	05/23/86	05/23/86 ^b	01/22/87	07/09/87
MS-00145-RS	600 Clay Hill Dr	O15	06/08/84	05/15/86	05/23/86 ^b	01/14/87	06/08/87
MS-00147-RS	180 East 4th South St	O11	06/08/84	11/20/85	11/20/85 ^b	05/12/87	09/29/87
MS-00148-MR	464 South 2nd East St	P11	09/05/85	09/29/87	09/29/87 ^b	05/23/88	07/21/88
MS-00150-RM	416 South Main St	O9	06/08/84	01/31/85	01/31/85 ^b	04/09/85	06/19/85
MS-00151-RS	149 West 3rd South St	N8	03/01/89	08/09/89	08/09/89 ^b	08/29/89	09/12/89
MS-00152-VL	Cedar Ln (Lot 76)	L4	04/21/94	07/22/94	09/06/94	10/18/94	05/09/95
MS-00153-VL	87 East 5th South St	P10	05/22/87	09/25/87	09/25/87 ^b	04/11/88	06/06/88
MS-00154-MR	435 South Main St	P10	05/22/87	01/06/88	01/06/88 ^b	04/01/88	06/06/88
MS-00155-VL	S Hwy 191, M-634	P10	05/22/87	09/25/87	09/25/87 ^b	03/17/88	06/16/88
MS-00156-RS	64 East 4th South St	O10	05/22/87	11/18/87	11/18/87 ^b	06/28/88	08/19/88
MS-00157-RS	45 South 2nd East St	K12	05/22/87	05/02/88	05/02/88 ^b	08/16/88	10/12/88
MS-00159-RS	149 South 2nd East St	L12	05/22/87	11/24/87	11/24/87 ^b	09/08/88	05/03/89
MS-00161-RS	249 East 2nd South St	L12	05/22/87	11/18/87	11/18/87 ^b	06/17/88	08/18/88
MS-00162-RS	217 & 249 East 3rd South St	N12	05/22/87	11/24/87	11/24/87 ^b	05/24/88	08/18/88
MS-00163-CS	264 East Center St	K12	05/22/87	04/23/90	04/19/90	05/10/90	08/09/90
MS-00164-CS	64 South 3rd East St	K12	05/22/87	09/29/87	09/29/87 ^b	07/10/88	08/18/88
MS-00166-RS	365 East 3rd South St	N13	05/22/87	09/25/87	09/25/87 ^b	07/10/91	08/28/91
MS-00167-MR	564 East 3rd South St	N15	05/22/87	01/06/88	01/06/88 ^b	07/20/88	09/17/88
MS-00168-VL	397 East 3rd South St	N13	05/22/87	09/25/87	09/25/87 ^b	03/28/88	06/16/88
MS-00170-RS	S Hwy 191	P10	05/22/87	09/25/87	03/17/89 ^b	12/19/88	05/11/89
MS-00171-RS	433 South Main St	O10	03/01/89	08/09/89	08/09/89 ^b	08/30/89	09/13/89
MS-00174-VL	465 South 1st East St	P11	10/07/88	07/22/94	09/06/94	02/10/95	05/30/95
MS-00183-VL	81 East 3rd South St	M13	09/25/89	03/06/90	03/06/90	10/12/91	06/09/91
MS-00184-VL	South Main St	R10	09/25/89	10/10/90	09/24/90	01/23/91	07/28/91

Table Unit A Construction Summary

Construction Dates	Volume of Contaminated Material Removed (yd ³)		Area Remediated (m ²)	ORNL Completion Report Approval	DOE Certification	Status/Comments
	Complete ^a	Interior				
09/30/88	20	1,375	2,285	04/09/93	11/07/96	Completion Report Submitted (EPA)
10/21/86	0	329	997	12/04/91	07/30/91	Completion Report Submitted (EPA)
10/28/86	20	528	2,120	06/06/94	07/09/95	Completion Report Submitted (EPA)
08/13/87	0	432	1,460	12/04/91	07/30/91	Completion Report Submitted (EPA)
08/05/87	0	511	1,638	12/04/91	07/30/91	Completion Report Submitted (EPA)
11/12/87	0	1,066	1,776	05/03/96	07/12/96	Completion Report Submitted (EPA)
09/30/88	87	3,362	4,645	08/15/96	10/22/96	Completion Report Submitted (EPA)
09/25/85	0	220	334	12/04/91	07/30/91	Completion Report Submitted (EPA)
09/27/89	0	17	60	01/08/93	01/27/92	Completion Report Submitted (EPA)
07/13/95	0	3	14	06/05/96	07/12/96	Completion Report Submitted (EPA)
07/01/88	0	261	557	12/04/91	07/30/91	Completion Report Submitted (EPA)
09/21/95	Note 3	Note 3	Note 3	07/03/96	07/12/96	Completion Report Submitted (EPA)
07/01/88	0	238	417	09/01/94	07/12/96	Completion Report Submitted (EPA)
09/20/88	0	414	1,351	05/07/93	11/08/96	Completion Report Submitted (EPA)
10/26/88	0	122	612	06/06/94	07/09/95	Completion Report Submitted (EPA)
07/10/89	0	217	1,088	08/28/92	01/27/92	Completion Report Submitted (EPA)
09/30/88	0	367	921	12/04/91	07/30/91	Completion Report Submitted (EPA)
09/30/88	12	506	1,622	07/29/96	11/01/96	Completion Report Submitted (EPA)
08/29/90	0	37	120	04/09/93	11/08/96	Completion Report Submitted (EPA)
09/30/88	0	637	1,599	04/27/95	07/12/96	Completion Report Submitted (EPA)
09/25/91	0	265	1,139			Postconstruction RDC Completed ⁹
09/17/91	0	430	2,070	12/03/93	09/25/93	Completion Report Submitted (EPA)
07/01/88	0	65	186	12/04/91	07/30/91	Completion Report Submitted (EPA)
06/03/89	0	102	279	03/06/92	11/08/96	Completion Report Submitted (EPA)
09/27/89	0	18	95	02/14/92	11/08/96	Completion Report Submitted (EPA)
08/16/95	0	4,027	4,664	05/03/96	07/12/96	Completion Report Submitted (EPA)
09/09/92	0	697	2,600	04/09/93	11/08/96	Completion Report Submitted (EPA)
09/25/92	0	2,103	1,423	06/06/94	07/12/96	Completion Report Submitted (EPA)

DOE ID Number	Property Address	Grid Coordinates (see Plate 1)	Inclusion Date	REA-DOE Approval	REA-Utah Approval	RAA Owner Approval	Cor
							Start
MS-00185-RS	South 2nd East St	M12	09/25/89	04/20/90 ^b	04/20/90 ^b	05/01/90	05/21/90
MS-00186-MR	249 South 2nd East St	M12	09/25/89	03/29/90	03/26/90	04/17/90	05/21/90
MS-00187-RS	165 East 4th South St	O11	09/25/89	03/29/90	03/26/90	05/11/90	07/12/90
MS-00188-VL	397 South 1st East St	N11	09/25/89	03/29/90	03/26/90	04/18/90	07/12/90
MS-00189-RS	164 East 3rd South St	N11	09/25/89	03/06/90	03/06/90	04/26/90	07/12/90
MS-00191-RS	165 South 2nd East St	L12	09/25/89	06/26/90	06/18/90	07/11/90	09/11/90
MS-00192-RS	226 East 1st South St	L12	09/25/89	06/26/90	06/18/90	08/27/90	09/11/90
MS-00193-RS	264 East 1st South St	L12	09/25/89	06/26/90	06/18/90	07/11/90	09/11/90
MS-00194-RS	280 East 1st South St	L12	09/25/89	06/30/91	06/13/91	02/18/94	08/03/94
MS-00195-CS	East 3rd South St	N13	09/25/89	10/17/90	10/09/90	01/16/91	08/28/91
MS-00196-RS	265 South 3rd East St	N13	09/25/89	11/11/93	12/16/93	02/02/94	08/03/94
MS-00197-VL	249 B South 3rd East St	M13	09/25/89	11/11/93	12/16/93	02/02/94	08/09/94
MS-00200-CS	262 East Center St	K12	09/25/89	06/11/90	06/01/90	06/25/90	08/09/90
MS-00201-RS	381 South 1st East St	N11	09/25/89	07/16/90	07/12/90	07/24/90	08/21/90
MS-00202-RS	394 South 1st East St	O11	09/25/89	07/16/90	07/12/90	07/24/90	08/22/90
MS-00203-VL	397 South 1st East St	O11	09/25/89	07/16/90	07/12/90	07/24/90	08/22/90
MS-00204-RS	365 South 1st East St	N11	09/25/89	07/16/90	07/12/90	07/24/90	08/22/90
MS-00209-RS	216 East 1st South St	L12	09/25/89	06/21/91	06/13/91	04/05/92	08/10/92
MS-00897-VL	453 South Main St	P10	07/21/94	01/06/88	07/21/94 ^b	04/01/88	06/06/88

^a The construction complete date is also the date the property owner signed the Notice of Final Completion Inspection.

^b Date shown is the tracking date; the actual signature date is on or before that date.

^c RDC measurements will be completed by Fall 1997.

^d RDC was 0.0310 WL. Additional mitigation scheduled for Summer 1997.

^e RDC was 0.0458 WL. Additional mitigation scheduled for Summer 1997.

^f RDC was 0.0511 WL. Additional mitigation scheduled for Summer 1997.

^g RDC reduced to 0.0175 after sealing basement sump. Additional mitigation scheduled for Summer 1997.

^h RDC measurement planned for Fall 1997.

Note 1. These properties were remediated as a package. Total volume removed for all three properties was 16 yd³ interior, 233 yd³ ex

Note 2. These properties were remediated as a package. Total volume removed for all three properties was 0 yd³ interior, 73 yd³ ex

Note 3. These properties were remediated as a package. The total volume removed for both properties was 0 yd³ interior, 1,534 yd³ ex

Key: m² = square meters; N/A = not applicable; RAA = Remedial Action Agreement; REA = Radiologic and Engineering Assessment

Table Unit A Construction Summary

Construction Dates	Volume of Contaminated Material Removed (yd ³)		Area Remediated (m ²)	ORNL Completion Report Approval	DOE Certification	Status/Comments
	Complete ^a	Interior	Exterior			
06/14/90	0	147	413	04/09/93	11/08/96	Completion Report Submitted (EPA)
06/14/90	0	549	1,376	06/06/94	07/09/95	Completion Report Submitted (EPA)
08/14/90	0	451	1,051	04/09/93	07/12/96	Completion Report Submitted (EPA)
08/16/90	0	288	1,032	12/04/91	01/27/92	Completion Report Submitted (EPA)
08/23/90	0	383	1,920	06/05/96	07/12/96	Completion Report Submitted (EPA)
10/05/90	0	135	407	09/18/92	11/08/96	Completion Report Submitted (EPA)
09/26/90	0	59	209	04/09/93	11/08/96	Completion Report Submitted (EPA)
09/26/90	0	112	336	04/09/93	11/08/96	Completion Report Submitted (EPA)
09/14/95	0	714	2,347	09/06/96	10/17/96	Completion Report Submitted (EPA)
09/04/91	0	34	115	04/09/93	07/12/96	Completion Report Submitted (EPA)
09/14/94	0	372	1,695	07/29/96	11/01/96	Completion Report Submitted (EPA)
09/15/94	0	74	302	09/29/95	07/12/96	Completion Report Submitted (EPA)
09/29/90	0	35	85	04/09/93	07/12/96	Completion Report Submitted (EPA)
09/08/90	0	102	513	04/09/93	11/08/96	Completion Report Submitted (EPA)
09/08/90	0	67	334	04/09/93	11/08/96	Completion Report Submitted (EPA)
09/08/90	0	747	1,874	02/14/92	11/08/96	Completion Report Submitted (EPA)
09/08/90	0	72	359	02/14/92	07/12/96	Completion Report Submitted (EPA)
07/12/93	0					Post Construction RDC In Process ^h
07/01/88	Note 3	Note 3	Note 3	07/03/96	07/12/96	Completion Report Submitted (EPA)

rior; remediated area was 592 m².
 or; remediated area was 196 m².
 erior; remediated area was 2,488 m².

yd³ = cubic yards.

Appendix Table 2. Postconstruction Activities Identification and Schedule

DOE ID No.	Status	Action Remaining	Responsible Agency	Date Action Starts	Completion Date
MS-00031-RS	Needs RDC measurements	Measure RDC	DOE	August 1996	February 1997
MS-00079-RS	RDC > 0.03 WL (0.0310 WL)	Install vents, retest RDC	DOE	April 1997	December 1997
MS-00101-RS	RDC > 0.03 WL (0.0458 WL)	Remove additional radioactive material, retest RDC.	DOE	April 1997	December 1997
MS-00133-RS	RDC > 0.03 WL (0.0511 WL)	Install vents, retest RDC	DOE	April 1997	December 1997
MS-00166-RS	RDC > 0.03 WL (0.1079 WL)	Permanently seal sump, retest RDC	DOE	April 1997	December 1997
MS-00209-RS	Needs RDC measurements ^a	Measure RDC	DOE	August 1997	December 1997

^aOwner has refused access. Possible earlier start if access is obtained.

Appendix Table 3. Operable Unit A Actions to be Completed Prior to the Final Close-Out Report

Item Number	Remaining Work	Responsible Agency	Date Action Starts	Completion Date
1	RDC Mitigation ^a	DOE	November 1996	July 1997
2	RDC Monitoring	DOE	August 1997	December 1997
3	Conduct Final Inspection	EPA	TBD	TBD
4	Final Review and Concurrence with 97 Property Completion Reports and Accompanying As-Built Drawings ^b	EPA/State—Letter to DOE	May 1997	July 1997
5	Six Property Completion Reports with Accompanying As-Built Drawings to EPA	DOE	December 1997	March 1998
6	Final Review and Concurrence with Six Property Completion Reports and Accompanying As-Built Drawings	EPA/State—Letter to DOE	May 1998	June 1998
7	Certification Letter to Property Owners	DOE	TBD ^c	TBD
8 ^d	Submit Index for Deletion Docket for MVP	DOE	TBD	TBD
9 ^d	Approve Index for Deletion Docket for MVP	EPA	TBD	August 1998
10 ^d	Compile Deletion Docket and Place in Administrative Record for MVP	DOE	ongoing	October 1998

^aIncludes design and procurement.

^bOne property, MS-00130-CS, was approved for no-action. No as-built drawing or Property Completion Report will be produced for this property. EPA and Utah approval of the no action REA constitutes recommendation for certification of conformance to project standards.

^cThis activity is not a part of the deletion process. EPA concurrence with the content of the letter is required prior to committing to a completion date.

^dProgrammatic MVP element to be conducted at conclusion of all OU RARs.

Key: TBD = to be determined

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