

Postclosure Inspection Report for the Tonopah Test Range and Nevada Test and Training Range, Nevada, Sites for Calendar Year 2025

March 2026

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Abbreviations

AEC	U.S. Atomic Energy Commission
CAS	Corrective Action Site
CAU	Corrective Action Unit
DOE	U.S. Department of Energy
FFACO	Federal Facility Agreement and Consent Order
LM	Office of Legacy Management
NDEP	Nevada Division of Environmental Protection
NTTR	Nevada Test and Training Range
TTR	Tonopah Test Range
UR	use restriction
UXO	unexploded ordinance

Executive Summary

This U.S. Department of Energy Office of Legacy Management (LM) report provides the results of the annual postclosure use restriction (UR) inspections at Corrective Action Sites (CASs) on the Tonopah Test Range (TTR) and Nevada Test and Training Range (NTTR), Nevada, Sites. This report covers postclosure UR inspections from calendar year 2025 and includes visual inspections and repair activities completed at the following Corrective Action Units (CAUs):

- CAU 407, Roller Coaster RadSafe Area (TTR)
- CAU 424, Area 3 Landfill Complexes (TTR)
- CAU 453, Area 9 Unexploded Ordinance Landfill (TTR)
- CAU 487, Thunderwell Site (NTTR)

Visual inspections were conducted in accordance with the postclosure requirements outlined in specific CAU and CAS URs approved by the Nevada Division of Environmental Protection. The annual postclosure inspections for CASs associated with CAUs 407, 424, 453, and 487 were conducted on April 23, 2025. Maintenance items identified included animal burrows, loose signs, and broken wire fencing. All repairs were completed during the inspection.

This report; Closure Reports; and the current, approved UR forms are available on the LM public website at <https://lmpublicsearch.lm.doe.gov/SitePages/default.aspx?sitename=Tonopah> and https://lmpublicsearch.lm.doe.gov/lmsites/current_ttr_userrestrictions.pdf.

1.0 Introduction

This report presents results of the inspections conducted by the U.S. Department of Energy (DOE) Office of Legacy Management (LM) at the Tonopah Test Range (TTR) and Nevada Test and Training Range (NTTR), Nevada, Sites. The TTR site is in south-central Nevada, approximately 140 miles northwest of Las Vegas, Nevada, and 30 miles southeast of Tonopah, Nevada. The TTR site is within the boundaries of the NTTR (Appendix A, Figure 1). The TTR site includes Corrective Action Sites (CASs) on both the TTR and NTTR sites.

In 1956, the U.S. Atomic Energy Commission (AEC), predecessor agency to DOE, began testing weapon systems, research rockets, and artillery on the TTR site. All sites related to these AEC activities were closed under the 1996 Nevada *Federal Facility Agreement and Consent Order (FFACO)* (DCNR, DOE, and DOD 1996) (FFACO), as amended, and the majority do not require any continuing actions. CASs within four Corrective Action Units (CAUs) have use restrictions (URs) and require annual inspections. Closure Reports for each CAU establish the postclosure inspection requirements; these were later modified through Records of Technical Change, and all requirements are now documented on UR forms for the sites.

1.1 Scope and Objective

This report includes visual annual inspection results, information about maintenance and repair activities, and recommendations for calendar year 2025 for URs associated with CASs on the TTR and NTTR sites that are accessed through the TTR and NTTR sites main gate. The TTR site is part of and on the NTTR.

The locations of the CAUs are shown in Figure 1 of Appendix A. The visual inspections were conducted in accordance with the postclosure requirements outlined in specific CAU and CAS URs approved by the Nevada Division of Environmental Protection (NDEP). The following visual inspection results are included in this report:

- **CAU 407: Roller Coaster RadSafe Area (TTR)**
 - CAS TA-23-001-TARC: Roller Coaster RadSafe Area
- **CAU 424: Area 3 Landfill Complexes (TTR)**
 - CAS 03-08-001-A301: Landfill Cell A3-1
 - CAS 03-08-002-A302: Landfill Cell A3-2
 - CAS 03-08-002-A303: Landfill Cell A3-3
 - CAS 03-08-002-A304: Landfill Cell A3-4
 - CAS 03-08-002-A305: Landfill Cell A3-5
 - CAS 03-08-002-A306: Landfill Cell A3-6
 - CAS 03-08-002-A308: Landfill Cell A3-8
- **CAU 453: Area 9 Unexploded Ordinance (UXO) Landfill (TTR)**
 - CAS 09-55-001-0952: Area 9 Landfill
- **CAU 487: Thunderwell Site (NTTR)**
 - CAS RG-26-001-RGRV: Thunderwell Site

Site figures are included in Appendix A. There are no postclosure inspection plans in Appendix B because they have been consolidated onto UR forms available on the LM public website at https://lmpublicsearch.lm.doe.gov/lmsites/current_ttr_userrestrictions.pdf. Postclosure inspection checklists from April 23, 2025, are included in Appendix C. Appendix D, “Field Notes,” does not include any field notes because all observations were captured on the postclosure inspection checklists. Appendix E, “Photographs,” does not include any inspection photographs because none were taken or required during the 2025 postclosure inspections.

Depending on specific UR requirements, postclosure UR inspections may include a visual inspection of some or all of the following physical controls:

- Fencing (is present and provides a barrier; at CAUs 407 and 453 only)
- Signs (are present and legible)
- Soil cover (completely covers material)
- Monuments (are present and standing)
- Markers (are present)

2.0 Inspection Results

Visual inspections were conducted on April 23, 2025. The inspection results are summarized below and documented on postclosure inspection checklists, which can be found in Appendix C.

2.1 CAU 407, Roller Coaster RadSafe Area (TTR)

Visual inspections were conducted according to the postclosure requirements for CAU 407, Roller Coaster RadSafe Area (TTR), CAS TA-23-001-TARC: Roller Coaster RadSafe Area, as described in the CAU 407 UR (DOE/EMNV 2019a). The site is shown in Figure 2 in Appendix A. Three sections of fence were broken and required repair. The sections of fence and the three associated signs were hanging down and had to be rehung. These sections were in the southwest, southeast, and east sides of the fence. Signs on the west end of the fence are faded and cracking and are starting to become difficult to read. Several small animal burrows were observed on the cell, but the burrows did not pose an imminent hazard to the integrity of the cell cover at the time of the inspection. No other repair or maintenance needs were observed.

2.2 CAU 424, Area 3 Landfill Complexes (TTR)

Visual inspections were conducted according to the postclosure requirements for CAU 424, Area 3 Landfill Complexes (TTR), CAS 03-08-001-A301: Landfill Cell A3-1; CAS 03-08-002-A302: Landfill Cell A3-2; CAS 03-08-002-A303: Landfill Cell A3-3; CAS 03-08-002-A304: Landfill Cell A3-4; CAS 03-08-002-A305: Landfill Cell A3-5; CAS 03-08-002-A306: Landfill Cell A3-6; and CAS 03-08-002-A308: Landfill Cell A3-8, as described in the CAU 424 UR (DOE/EMNV 2019b). The landfill locations are shown in Figure 3 of Appendix A. The inspection was conducted on April 23, 2025.

Landfill Cell A3-1 (CAS 03-08-001-A301): All signs, monuments, and survey markers were in good condition. All corner monuments had warning signs. Several small animal burrows were observed on the cell, but the burrows did not pose an imminent hazard to the integrity of the cell cover at the time of the inspection. No repair or maintenance needs were observed. The site is shown in Figure 4 of Appendix A.

Landfill Cell A3-2 (CAS 03-08-002-A302): All signs, monuments, and survey markers were in good condition. All corner monuments had warning signs. Several small animal burrows were observed on the cell, but the burrows did not pose an imminent hazard to the integrity of the cell cover at the time of the inspection. No repair or maintenance needs were observed. The site is shown in Figure 4 of Appendix A.

Landfill Cell A3-3 (CAS 03-08-002-A303): All signs, monuments, survey markers (on the monuments), and ground survey markers were in good condition. All monuments had warning signs. The survey marker on the northeast corner of A303 (west) is obstructed by a vehicle tire. The vehicle is parked on top of the survey marker making identification difficult. Survey markers were difficult for the inspection team to find. Inspectors were only able to locate one of the three clustered ground-flush markers. The eastern and southern markers were not identified. Although the other two markers were unable to be found, it was obvious that the CAS had not been penetrated and was still functional and protective. The markers were buried under 6 inches of soil. No repair or maintenance needs were observed. The site is shown in Figure 5 of Appendix A.

Landfill Cell A3-4 (CAS 03-08-002-A304): All signs, monuments, and survey markers were in good condition. All monuments had warning signs. The large 7 × 7-foot area of densely packed animal burrows and additional 8-inch-diameter burrow, both identified in previous inspections, were monitored during the inspection, and no substantial changes were noted. The southwest monument has several animal burrows around the base. The burrows did not pose an imminent hazard to the integrity of the cell cover at the time of inspection. The western monument is deteriorating and has rebar exposed through the concrete. No repair or maintenance needs were observed. The site is shown in Figure 6 of Appendix A.

Landfill Cell A3-5 (CAS 03-08-002-A305): All signs, monuments, and survey markers were in good condition. All monuments had warning signs. All four monuments have small animal burrows and minor erosion around the base. The northeast corner monument has signs of water erosion around the base. No repair or maintenance needs were observed. There was no evidence of unauthorized use like that discovered in the previous year's inspection. The site is shown in Figure 7 of Appendix A.

Landfill Cell A3-6 (CAS 03-08-002-A306): All signs, monuments, and survey markers were in good condition. All monuments had warning signs. Several small animal burrows were observed on the cell. Metal debris was observed on the surface, along with a small sign denoting its presence on the cell. No repair or maintenance needs were observed. The site is shown in Figure 8 of Appendix A.

Landfill Cell A3-8 (CAS 03-08-002-A308): All ground survey monuments and markers were in good condition. There is a dumpster directly adjacent to one of the ground-flush markers inside the fence. The marker is currently visible but has the potential to be covered in future inspections. No repair or maintenance needs were observed. The site is shown in Figure 9 of Appendix A.

2.3 CAU 453, Area 9 UXO Landfill (TTR)

Visual inspections were conducted according to the postclosure requirements for CAU 453, Area 9 UXO Landfill (TTR), CAS 09-55-001-0952: Area 9 Landfill, as described in the CAU 453 UR (DOE/EMNV 2019c). The site is shown in Figure 10 of Appendix A. The inspection was conducted on April 23, 2025. All signs and monuments were in good condition. The perimeter fence was in good condition. UR signs were attached to the fence and legible. Minor rills were observed by the western end of the cell. Rills were filled in with dirt. During the time of inspection, the erosion did not present an imminent hazard to the cell cover. No other repair or maintenance needs were observed.

2.4 CAU 487, Thunderwell Site (TTR)

Visual inspections were conducted according to the postclosure requirements for CAU 487, Thunderwell Site (TTR), CAS RG-26-001-RGRV: Thunderwell Site, as described in the CAU 487 UR (DOE/EMNV 2019d). The site is shown in Figure 11 of Appendix A. The annual inspection was conducted on April 23, 2025. The site is made up of two land parcels: the A-17 Anomaly and the A-8 Anomaly. All signs, monuments, and survey markers were in good condition. All monuments had warning signs. Two metal tubes are exposed to the surface. This has been observed in the past and does not present an imminent hazard to the integrity of the cell. Minor erosion was also observed on the cell cover. During the time of inspection, the erosion did not pose an imminent hazard to the cell cover. No repair or maintenance needs were observed.

3.0 Recommendations

Recommendations of future maintenance and CAU status are outlined in this section.

3.1 CAU 407, Roller Coaster RadSafe Area (TTR)

The fence surrounding the CAU is starting to degrade. Numerous posts were loose, the fence strands are losing integrity, and the signs are becoming illegible. The fence and signs need to be replaced in the next few years.

3.2 CAU 424, Area 3 Landfill Complexes (TTR)

The following recommendations are for CAS A303 within CAU 424:

Landfill Cell A3-3 (CAS 03-08-002-A303): Installation of monuments or concrete boundary markers on A303 (east) could help to protect cell integrity and field identification. The survey marker on the northeast corner of A303 (west) is obstructed by a vehicle tire. The vehicle is parked on top of the survey marker making identification difficult. Field identification would be easier and more efficient if the parked vehicle was moved off the marker. Future inspectors should consider bringing a metal detector to locate the markers. They should also consider using a GPS unit to locate and potentially add permanent aboveground identifying features. No other recommendations are proposed at CAS 03-08-002-A303.

3.3 CAU 453, Area 9 UXO Landfill (TTR)

During the inspection, the lock installed during the previous inspection event would not open. It is possible that dirt in the ingress or rust froze the lock. LM will work with Sandia National Laboratories to daisy chain the lock for future access. No other recommendations are proposed at CAS 09-55-001-0952: Area 9 Landfill.

3.4 CAU 487, Thunderwell Site (TTR)

No recommendations are proposed for CAS RG-26-001-RGRV, Thunderwell Site.

4.0 References

DCNR (Nevada Department of Conservation and Natural Resources), DOE (U.S. Department of Energy), and DOD (U.S. Department of Defense), 1996. *Federal Facility Agreement and Consent Order (FFACO)*, March 15.

DOE (U.S. Department of Energy)/EMNV (Environmental Management Nevada Program), 2019a. *Record of Technical Change to Closure Report for Corrective Action Unit 407: Roller Coaster RADSAFE Area, Tonopah Test Range, Nevada*, DOE/NV--694-rev 1, ROTC No. DOE/NV--694-rev 1-ROTC 1, Las Vegas, Nevada, November 19.

DOE (U.S. Department of Energy)/EMNV (Environmental Management Nevada Program), 2019b. *Record of Technical Change to Closure Report for Corrective Action Unit 424: Area 3 Landfill Complex, Tonopah Test Range, Nevada*, Rev. 0, DOE/NV/11718--283, ROTC No. DOE/NV/11718--283-ROTC 1, Las Vegas, Nevada, July 2.

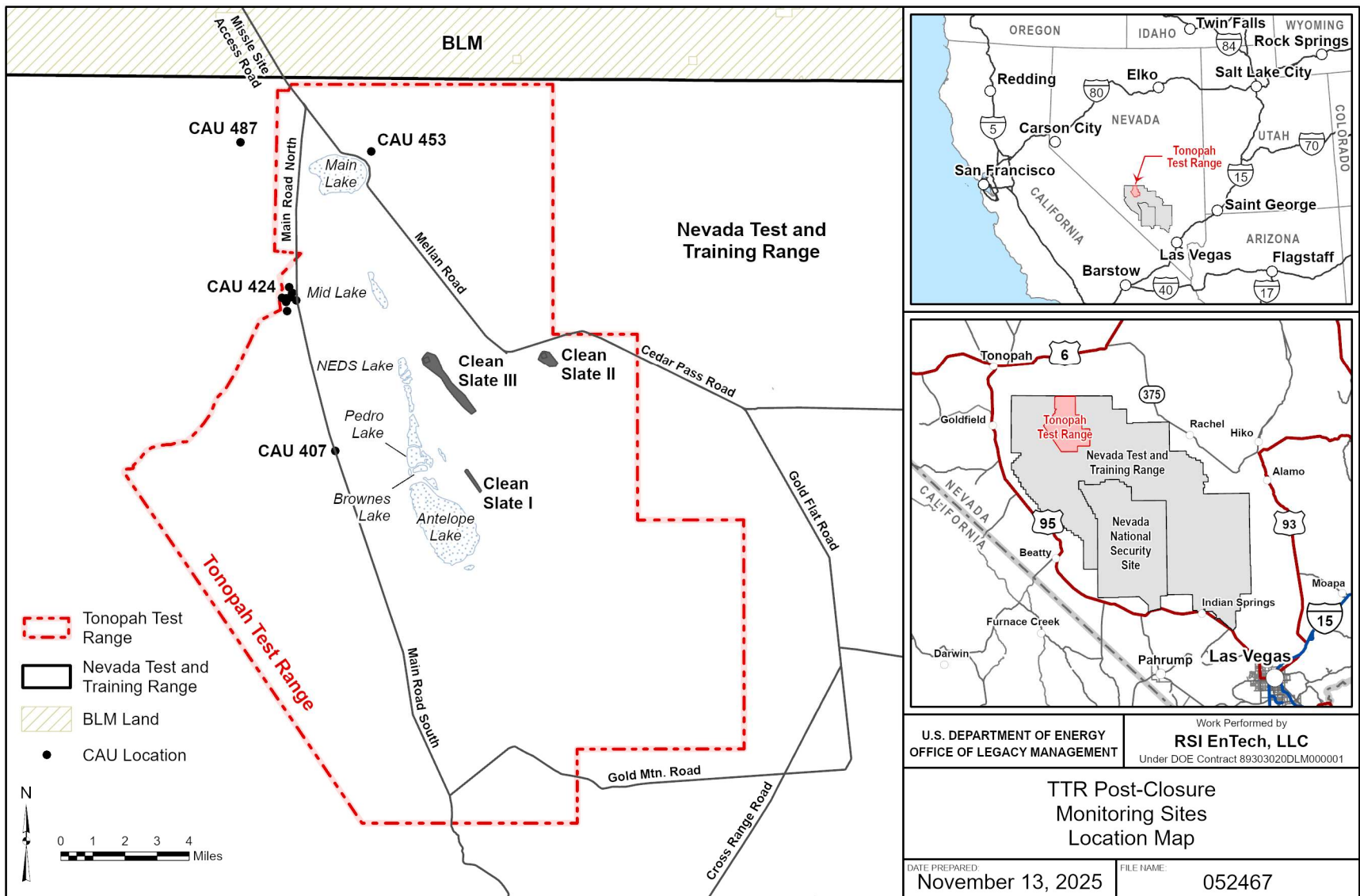
DOE (U.S. Department of Energy)/EMNV (Environmental Management Nevada Program), 2019c. *Record of Technical Change to Closure Report for Corrective Action Unit 453: Area 9 UXO Landfill, Tonopah Test Range, Nevada*, DOE/NV/11718--284, ROTC No. DOE/NV/11718--284-ROTC 1, Las Vegas, Nevada, November 19.

DOE (U.S. Department of Energy)/EMNV (Environmental Management Nevada Program), 2019d. *Record of Technical Change to Corrective Action Decision Document/Closure Report for Corrective Action Unit 487: Thunderwell Site, Tonopah Test Range, Nevada*, Rev. 0, DOE/NV--761, ROTC No. DOE/NV--761-ROTC 3, Las Vegas, Nevada, November 19.

DOE (U.S. Department of Energy), 2025. *Postclosure Inspection Report for the Tonopah Test Range and Nevada Test and Training Range, Nevada, Sites for Calendar Year 2024*, LMS/TTR/49461, Office of Legacy Management, October.

Appendix A

Figures







A-L 052467

Abbreviations: BLM = U.S. Bureau of Land Management, NEDS = Nonviolent Explosive Destruct System

Figure 1. TTR Site Location Map



Aerial Imagery: ESRI World Imagery (2024)

<p>  FFACO Use Restriction  Landfill </p> <p style="text-align: center;">  Scale in Feet  </p>	<p>U.S. DEPARTMENT OF ENERGY OFFICE OF LEGACY MANAGEMENT</p>	<p>Work Performed by RSI EnTech, LLC Under DOE Contract 89303020DLM000001</p>
<p>CAU 407 Roller Coaster RadSafe Area Location Map</p>		
<p>DATE PREPARED: October 29, 2025</p>	<p>FILE NAME: 052468</p>	

A-P 052468

Figure 2. CAU 407, Roller Coaster RadSafe Area



Aerial Imagery: ESRI World Imagery (2024)

<ul style="list-style-type: none"> CAS Location FFACO Use Restriction 	<p>N</p> <p>Scale in Feet</p> <p>400 0 400</p>	<p>U.S. DEPARTMENT OF ENERGY OFFICE OF LEGACY MANAGEMENT</p>	<p>Work Performed by RSI EnTech, LLC <small>Under DOE Contract 89303020DLM000001</small></p>
		<p>CAU 424 Area 3 Landfill Complexes Location Map</p>	
<p>DATE PREPARED October 29, 2025</p>		<p>FILE NAME: 052469</p>	

A-P 052469

Figure 3. CAU 424, CAS Locations

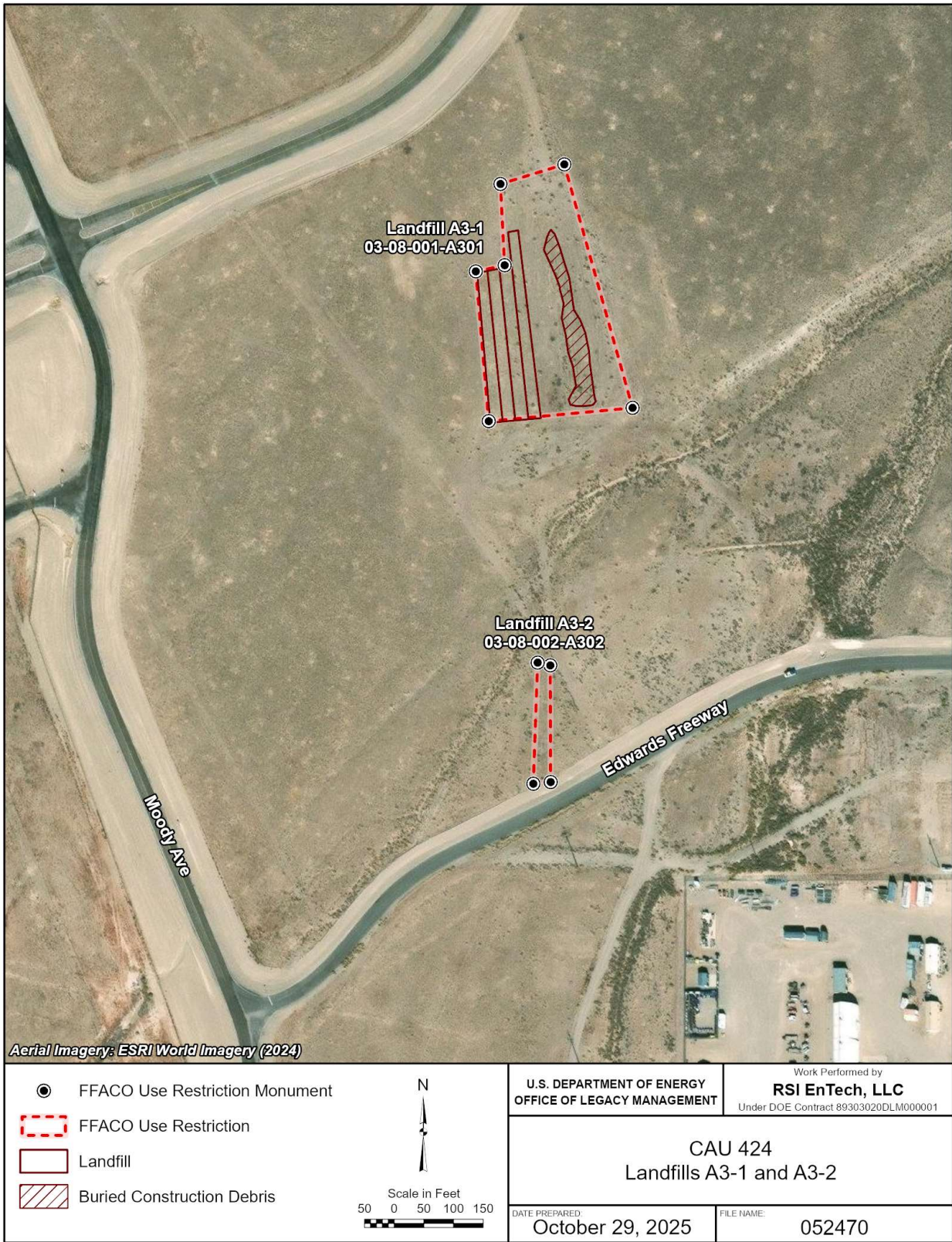
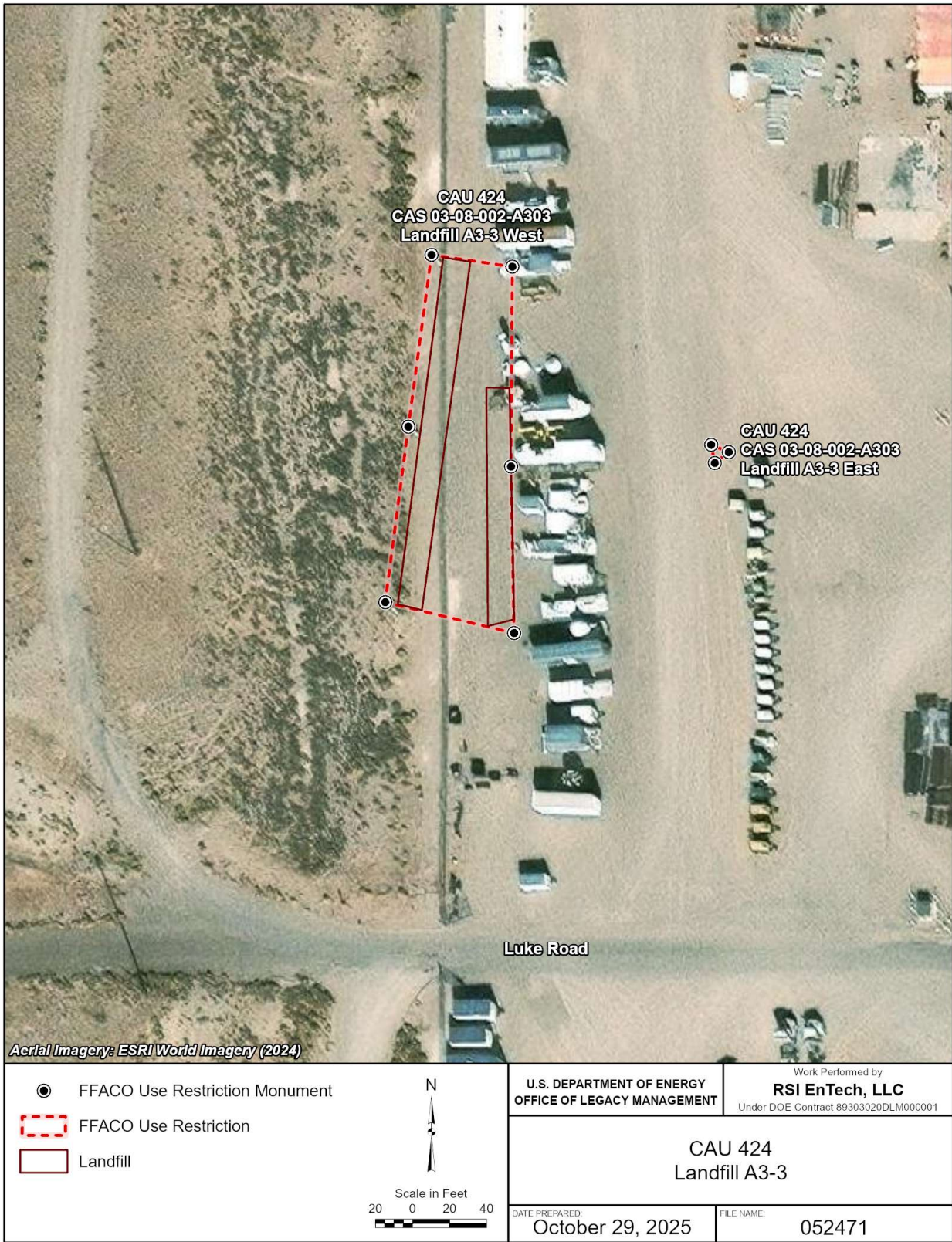
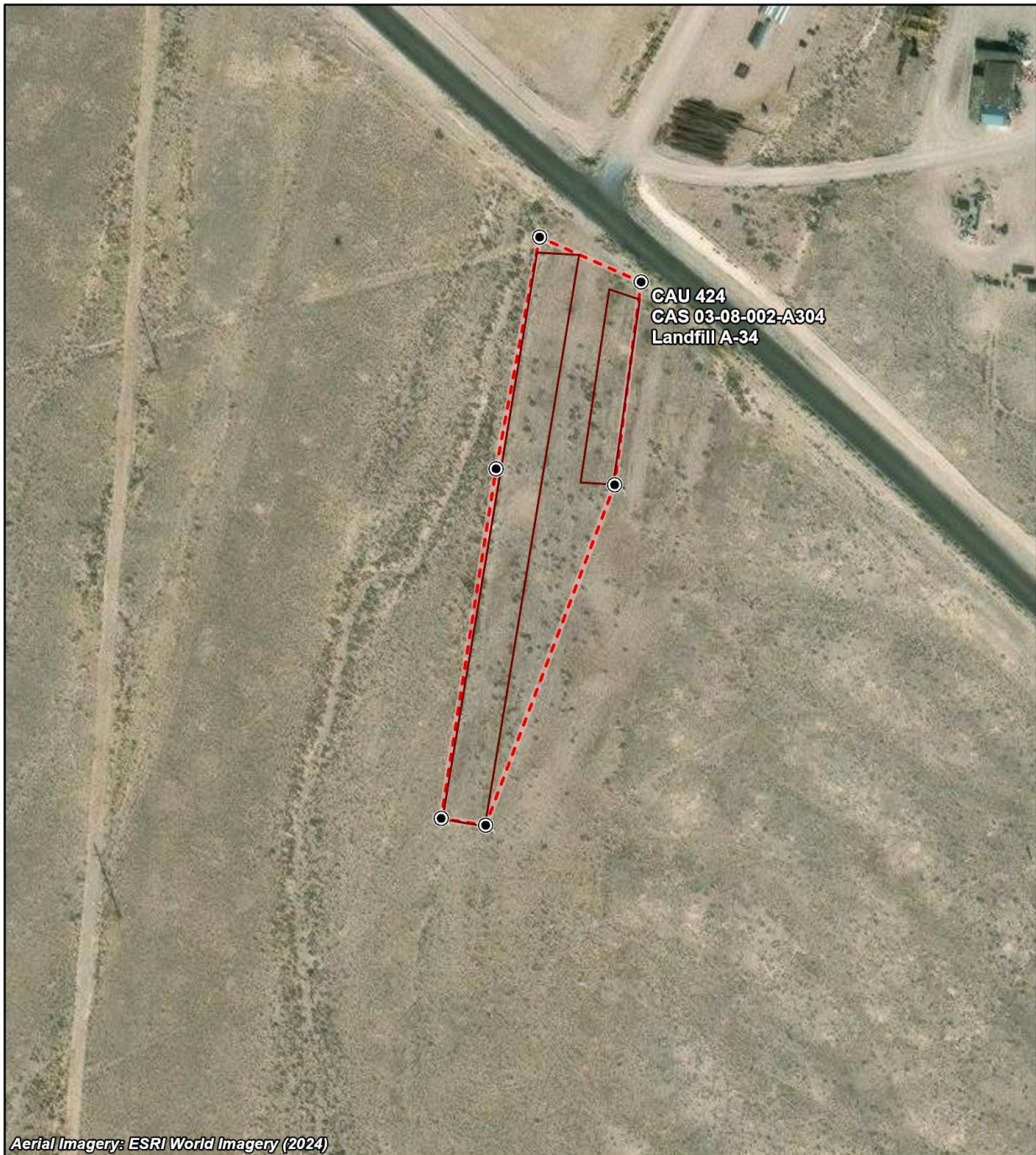


Figure 4. CAU 424, Landfills A3-1 and A3-2



A-P 052471

Figure 5. CAU 424, Landfill A3-3

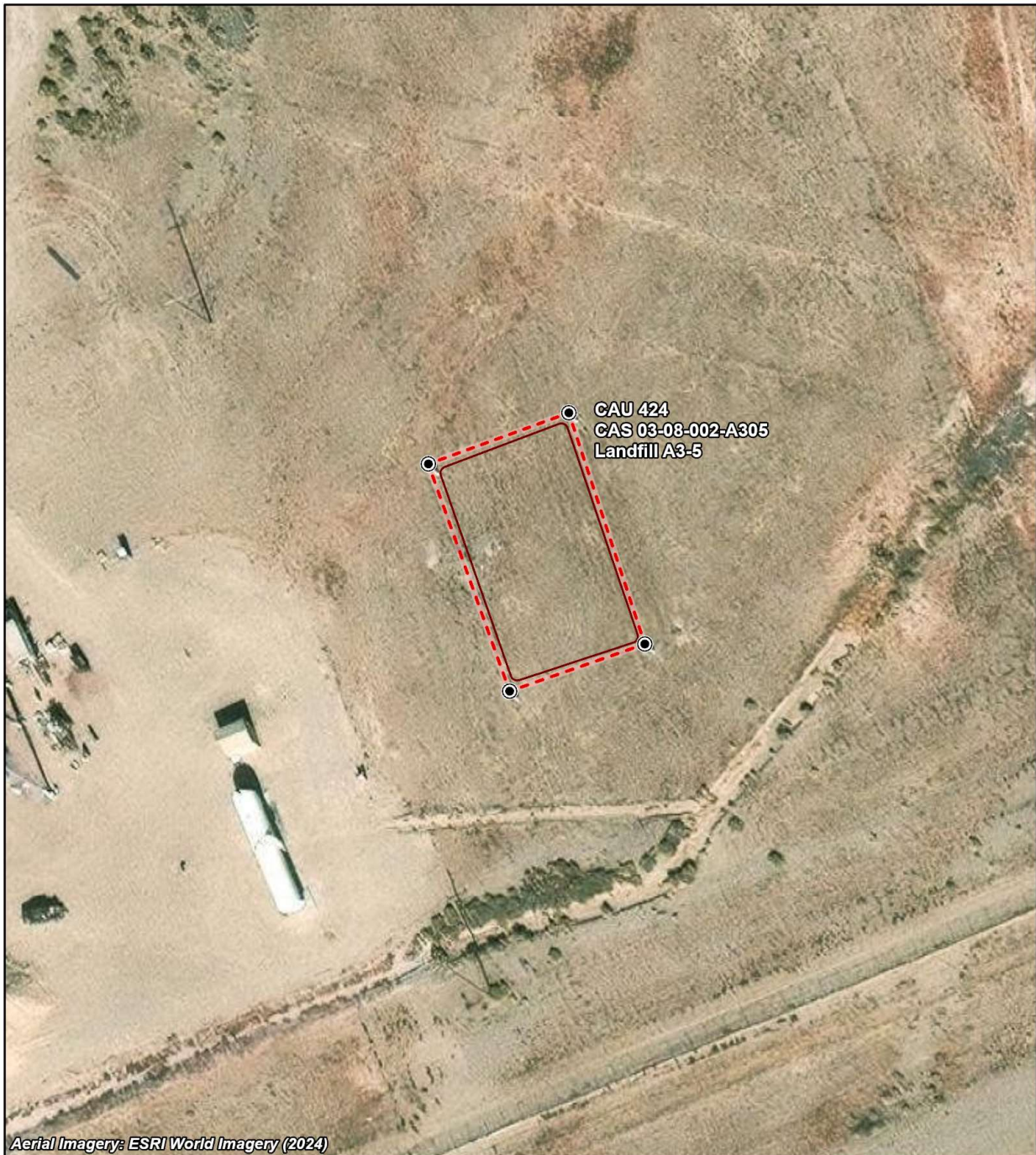


Aerial Imagery: ESRI World Imagery (2024)

<ul style="list-style-type: none"> ● FFACO Use Restriction Monument ▭ FFACO Use Restriction ▭ Landfill 	<p style="text-align: center;">N</p> <p style="text-align: center;">Scale in Feet</p>	<p style="text-align: center;">U.S. DEPARTMENT OF ENERGY OFFICE OF LEGACY MANAGEMENT</p>	<p style="text-align: center;">Work Performed by RSI EnTech, LLC <small>Under DOE Contract 89303020DLM000001</small></p>
		<p>CAU 424 Landfill A3-4</p>	
		<p>DATE PREPARED October 29, 2025</p>	<p>FILE NAME: 052472</p>

A-P 052472

Figure 6. CAU 424, Landfill A3-4



Aerial Imagery: ESRI World Imagery (2024)

<p>● FFACO Use Restriction Monument</p>	<p>N</p>	<p>U.S. DEPARTMENT OF ENERGY OFFICE OF LEGACY MANAGEMENT</p>	<p>Work Performed by RSI EnTech, LLC Under DOE Contract 89303020DLM000001</p>
<p>▭ FFACO Use Restriction</p>		<p>CAU 424 Landfill A3-5</p>	
<p>▭ Landfill</p>	<p>DATE PREPARED October 29, 2025</p>		<p>FILE NAME: 052473</p>



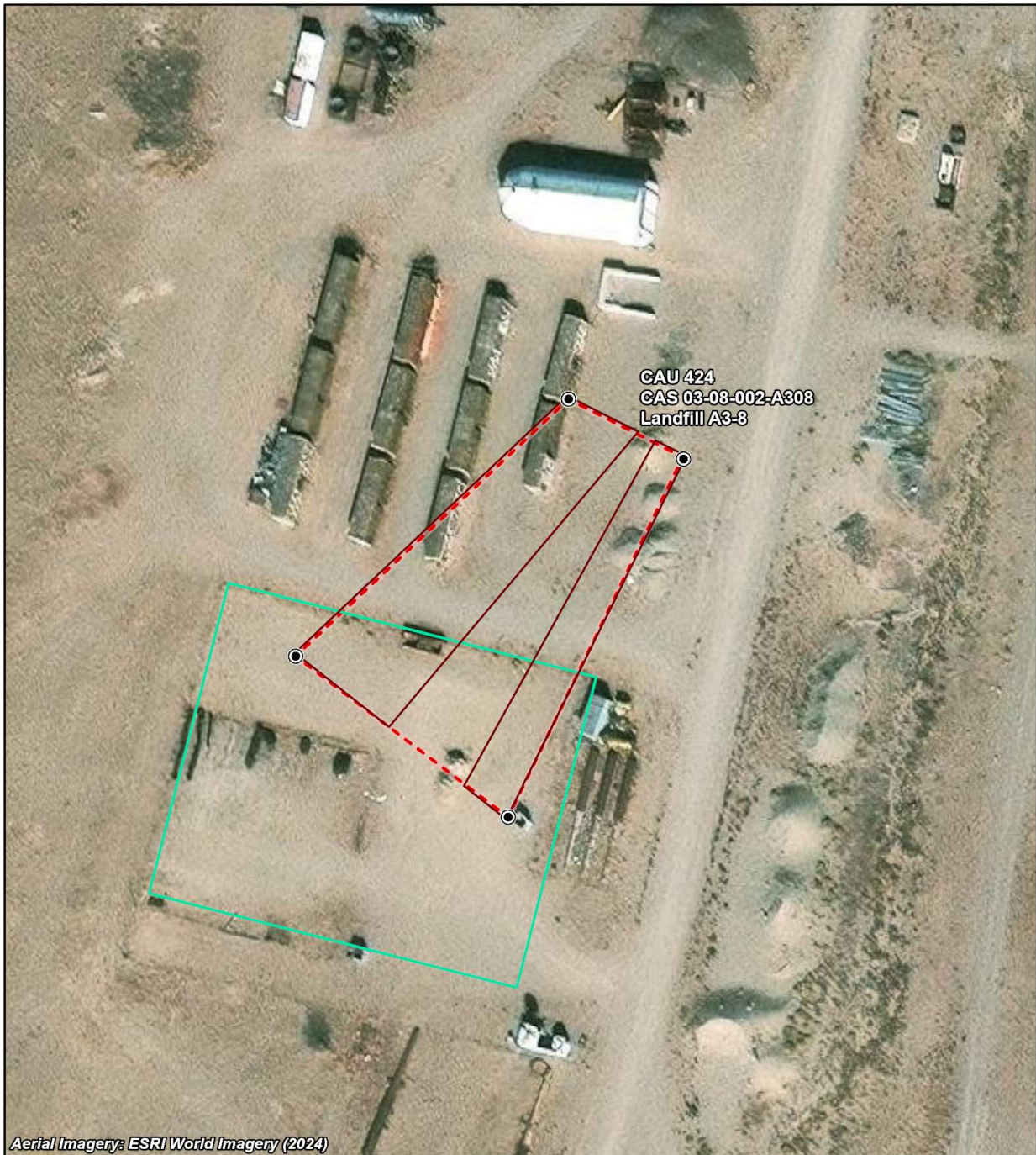
A-P 052473

Figure 7. CAU 424, Landfill A3-5



A-P 052474

Figure 8. CAU 424, Landfill A3-6



Aerial Imagery: ESRI World Imagery (2024)

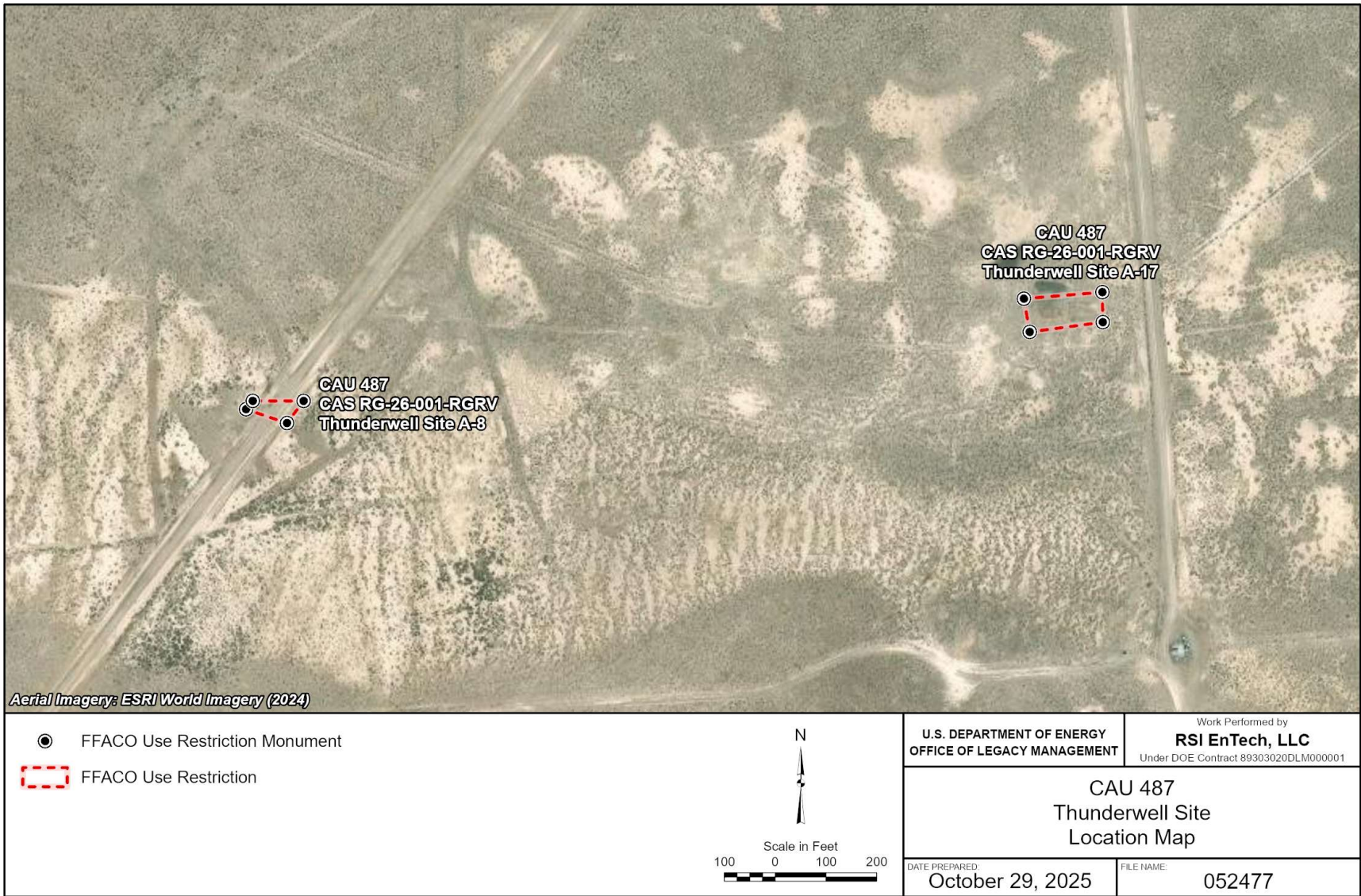
<ul style="list-style-type: none"> ● FFACO Use Restriction Monument ▭ FFACO Use Restriction ▭ Landfill ▭ Radioactive Material Area 	<p style="text-align: center;">N</p> <p style="text-align: center;">Scale in Feet</p>	<p style="text-align: center;">U.S. DEPARTMENT OF ENERGY OFFICE OF LEGACY MANAGEMENT</p>	<p style="text-align: center;">Work Performed by RSI EnTech, LLC <small>Under DOE Contract 89303020DLM000001</small></p>
		<p>CAU 424 Landfill A3-8</p>	
<p>DATE PREPARED: October 29, 2025</p>		<p>FILE NAME: 052475</p>	

A-P 052475

Figure 9. CAU 424, Landfill A3-8



Figure 10. CAU 453, Area 9 UXO Landfill



A-L 052477

Figure 11. CAU 487, Thunderwell

Appendix B

Postclosure Inspection Plans

Postclosure inspections are conducted according to site-specific UR forms, so individual or annual inspection plans are not needed. Current, approved UR forms are available on the LM public website at https://lmpublicsearch.lm.doe.gov/lmsites/current_ttr_userrestrictions.pdf.

Appendix C

Postclosure Inspection Checklists

POST-CLOSURE INSPECTION CHECKLIST

**CAU 407, ROLLER COASTER RADSAFE AREA (TTR) –
CAS TA-23-001-TARC, ROLLER COASTER RADSAFE AREA**

Inspection Date: 4/23/25

Reason for Inspection: Annual

Date of Last Post-Closure Inspection: 4/23/24

Reason for Last Post-Closure Inspection: Annual

Inspector (name, title, organization): Alex McCarty, Site Lead, RSI

A. GENERAL INSTRUCTIONS

- **Visual inspection includes features described in this checklist.**
- Field notes are not required if the checklist and associated attachments adequately describe site conditions.
- Photographs are not required but may be taken to document maintenance/repair needs, anomalous features, or new features (such as changes in adjacent area land use).

B. PREPARATION (To be completed prior to the site visit)	YES	NO	EXPLANATION (required if shaded box is checked)
1. Were anomalies or trends detected on previous inspections?	X		Two signs were reattached to fence. Three sections of fence along the south, east, and north sides were repaired. Small animal burrows were observed on cover.
2. Were maintenance or repairs performed since the last inspection?	X		Sign and fence repair noted above.

C. SITE INSPECTION (To be completed during the site visit)

UR Signs:	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are all use restriction signs present and legible?	X		Three signs were loose due to fence breaks. The signs were re-hung and fence strands were repaired.
Waste Unit Cover/Fenced Area:	YES	NO	EXPLANATION (required if shaded box is checked)
1. Is there evidence of subsidence, settling or cracking, water ponding, or animal burrows on the cover?	X		Animal burrows on sides of dirt mounds.
2. Is there evidence of erosion (wind or water) on the cover?		X	
3. Is there any waste exposed?		X	
4. Are there signs of unauthorized use?		X	
5. Is there vegetation up against the fencing (inside or outside)?		X	
6. Is there damage to or a break in the fencing or fenceposts?	X		Three sections of fence were broken and required repair. The sections of fence were hanging down and had to be rehung. These sections were located on the southwest, southeast, and east sides of the fence.
7. Is there trash or debris within the fenced area?		X	
Are there any other issues not specifically described in this checklist?			

D. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Have photographs of the site been taken?		X	
2. Is there an imminent hazard to the integrity of the landfill cover?		X	

Notes:

Signs on west end of fence are faded, cracking, and are starting to become difficult to read. Three signs and associated fence along the east, southeast, and southwest required repair. Fence and sign on east side was also repaired.

Small animal burrows were observed on cover. At this time the burrows do not present an imminent hazard to the integrity of the cell.

E. INSPECTION PERSONNEL: Mary Young, Shantae Green, Meghan Lyle, Jade Poole, and Alex McCarty

Inspector Signature & Date:

ALEXANDER

MCCARTY (Affiliate)

Digitally signed by ALEXANDER
MCCARTY (Affiliate)

Date: 2025.05.12 13:17:32 -06'00'

POST-CLOSURE INSPECTION CHECKLIST

CA/U 424, AREA 3 LANDFILL COMPLEXES (TTR) – CAS 03-08-001-A301, LANDFILL CELL A3-1

Inspection Date: 4/23/25

Reason for Inspection: Annual

Date of Last Post-Closure Inspection: 4/23/24

Reason for Last Post-Closure Inspection: Annual

Inspector (name, title, organization): Alex McCarty, Site Lead, RSI

A. GENERAL INSTRUCTIONS

- **Visual inspection includes features described in this checklist.**
- Field notes are not required if the checklist and associated attachments adequately describe site conditions.
- Photographs are not required but may be taken to document maintenance/repair needs, anomalous features, or new features (such as changes in adjacent area land use).

B. PREPARATION (To be completed prior to the site visit)	YES	NO	EXPLANATION (required if shaded box is checked)
1. Were anomalies or trends detected on previous inspections?	X		Several small animal burrows were observed on the cell.
2. Were maintenance or repairs performed since the last inspection?		X	

C. SITE INSPECTION (To be completed during the site visit)

UR Signs:	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are all use restriction signs present and legible?	X		
Waste Unit Cover/Fenced Area:	YES	NO	EXPLANATION (required if shaded box is checked)
1. Is there evidence of subsidence, settling or cracking, water ponding, or animal burrows on the cover?	X		Several small animal burrows were observed on the cell.
2. Is there evidence of erosion (wind or water) on the cover?		X	
3. Is there any waste exposed?		X	
4. Are there signs of unauthorized use?		X	
5. Is there vegetation up against the fencing (inside or outside)?		X	
6. Is there damage to or a break in the fencing or fenceposts?		X	
7. Is there trash or debris within the fenced area?		X	
Are there any other issues not specifically described in this checklist?		X	

D. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Have photographs of the site been taken?		X	
2. Is there an imminent hazard to the integrity of the landfill cover?		X	

Notes:

Several small animal burrows were observed on the cell. At this time the burrows do not pose an imminent hazard to the integrity of the cell.

E. INSPECTION PERSONNEL: Mary Young, Shantae Green, Meghan Lyle, Jade Poole, and Alex McCarty

Inspector Signature & Date:

ALEXANDER MCCARTY
(Affiliate)

Digitally signed by ALEXANDER MCCARTY
(Affiliate)
Date: 2025.05.12 13:28:56 -06'00'

POST-CLOSURE INSPECTION CHECKLIST

CAU 424, AREA 3 LANDFILL COMPLEXES (TTR) – CAS 03-08-002-A302, LANDFILL CELL A3-2

Inspection Date: 4/23/25	Reason for Inspection: Annual
Date of Last Post-Closure Inspection: 4/23/24	Reason for Last Post-Closure Inspection: Annual
Inspector (name, title, organization): Alex McCarty, Site Lead, RSI	

A. GENERAL INSTRUCTIONS

- **Visual inspection includes features described in this checklist.**
- Field notes are not required if the checklist and associated attachments adequately describe site conditions.
- Photographs are not required but may be taken to document maintenance/repair needs, anomalous features, or new features (such as changes in adjacent area land use).

B. PREPARATION (To be completed prior to the site visit)	YES	NO	EXPLANATION (required if shaded box is checked)
1. Were anomalies or trends detected on previous inspections?	X		During the time of inspection, a Bulldozer was leveling out the dirt road next to the cell. Grading work was within 2 feet of UR Boundary. There were no imminent hazards caused by grading activities. Several small animal burrows were observed on the cell.
2. Were maintenance or repairs performed since the last inspection?		X	

C. SITE INSPECTION (To be completed during the site visit)

UR Signs/Landfill Markers:	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are all use restriction signs present and legible?	X		
2. Have any of the monuments been disturbed or damaged?		X	
Waste Unit Cover:	YES	NO	EXPLANATION (required if shaded box is checked)
1. Is there evidence of subsidence, settling or cracking, water ponding, or animal burrows on the cover?	X		Several small animal burrows were observed on the cell.
2. Is there evidence of erosion (wind or water) on the cover?		X	
3. Is there any waste exposed?		X	
3. Are there signs of unauthorized use?		X	
Are there any other issues not specifically described in this checklist?		X	

D. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Have photographs of the site been taken?		X	
2. Is there an imminent hazard to the integrity of the landfill cover?		X	

Notes:

Several small animal burrows were observed on the cell. The burrows do not pose an imminent hazard to the integrity of the cell cover.

E. INSPECTION PERSONNEL: Mary Young, Shantae Green, Meghan Lyle, Jade Poole, and Alex McCarty

Inspector Signature & Date:

ALEXANDER MCCARTY (Affiliate) Digitally signed by ALEXANDER MCCARTY (Affiliate) Date: 2025.05.12 13:31:45 -06'00'

POST-CLOSURE INSPECTION CHECKLIST

CAU 424, AREA 3 LANDFILL COMPLEXES (TTR) – CAS 03-08-002-A303, LANDFILL CELL A3-3

Inspection Date: 4/23/25	Reason for Inspection: Annual
Date of Last Post-Closure Inspection: 4/23/24	Reason for Last Post-Closure Inspection: Annual
Inspector (name, title, organization): Alex McCarty, Site Lead, RSI	

A. GENERAL INSTRUCTIONS

- **Visual inspection includes features described in this checklist.**
- Field notes are not required if the checklist and associated attachments adequately describe site conditions.
- Photographs are not required but may be taken to document maintenance/repair needs, anomalous features, or new features (such as changes in adjacent area land use).

B. PREPARATION (To be completed prior to the site visit)	YES	NO	EXPLANATION (required if shaded box is checked)
1. Were anomalies or trends detected on previous inspections?	X		The survey marker on the northeast corner of A303 (West) is obstructed by a vehicle tire. The vehicle is parked on top of the survey marker making identification difficult.
2. Were maintenance or repairs performed since the last inspection?		X	

C. SITE INSPECTION (To be completed during the site visit)

UR Signs/Landfill Markers:	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are all use restriction signs present and legible?	X		
2. Have any of the monuments been disturbed or damaged?		X	
3. Have any of the ground-flush survey markers been disturbed or damaged?		X	The survey marker on the northeast corner of A303 (West) is obstructed by a vehicle tire. The vehicle is parked on top of the survey marker making identification difficult.

Waste Unit Cover:	YES	NO	EXPLANATION (required if shaded box is checked)
1. Is there evidence of subsidence, settling or cracking, water ponding, or animal burrows on the cover?		X	
2. Is there evidence or erosion (wind or water) on the cover?		X	
3. Is there any waste exposed?		X	
4. Are there signs of unauthorized use?		X	
Are there any other issues not specifically described in this checklist?	X		Survey markers are difficult to find. Markers were buried under soil.

D. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Have photographs of the site been taken?		X	
2. Is there an imminent hazard to the integrity of the landfill covers?		X	

Notes:

Survey markers were difficult to find. Inspectors were able to locate one of the three clustered ground-flush markers. The eastern and southern markers were not identified. Although unable to find the other two, it was obvious that the CAS had not been penetrated and was still functional and protective. Some were buried under 6" of soil. Future inspectors should consider bringing a metal detector if possible. Also consider coordinating with Sandia beforehand to use a GPS to locate and potentially add permanent above ground identifying features.

E. INSPECTION PERSONNEL: Mary Young, Shantae Green, Meghan Lyle, Jade Poole, and Alex McCarty

Inspector Signature & Date: **ALEXANDER MCCARTY (Affiliate)** Digitally signed by ALEXANDER MCCARTY (Affiliate) Date: 2025.05.12 14:05:10 -06'00'

POST-CLOSURE INSPECTION CHECKLIST

CAU 424, AREA 3 LANDFILL COMPLEXES (TTR) – CAS 03-08-002-A304, LANDFILL CELL A3-4

Inspection Date: 4/23/25	Reason for Inspection: Annual
Date of Last Post-Closure Inspection: 4/23/24	Reason for Last Post-Closure Inspection: Annual
Inspector (name, title, organization): Alex McCarty, Site Lead, RSI	

A. GENERAL INSTRUCTIONS

- **Visual inspection includes features described in this checklist.**
- Field notes are not required if the checklist and associated attachments adequately describe site conditions.
- Photographs are not required but may be taken to document maintenance/repair needs, anomalous features, or new features (such as changes in adjacent area land use).

B. PREPARATION (To be completed prior to the site visit)	YES	NO	EXPLANATION (required if shaded box is checked)
1. Were anomalies or trends detected on previous inspections?	X		Several small animal burrows were observed on the cell. A large 7x7-foot area of densely packed burrows was identified during inspection. Additionally, a 8-inch wide burrow was also discovered on the cell.
2. Were maintenance or repairs performed since the last inspection?		X	

C. SITE INSPECTION (To be completed during the site visit)			
UR Signs/Landfill Markers:	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are all use restriction signs present and legible?	X		
2. Have any of the monuments been disturbed or damaged?		X	
Waste Unit Cover:	YES	NO	EXPLANATION (required if shaded box is checked)
1. Is there evidence of subsidence, settling or cracking, water ponding, or animal burrows on the cover?	X		A large 7x7-foot area of densely packed burrows and an 8-inch wide burrow are still on the cell. These burrows have been observed in previous inspection events.
2. Is there evidence or erosion (wind or water) on the cover?		X	
3. Is there any waste exposed?			
3. Are there signs of unauthorized use?			
Are there any other issues not specifically described in this checklist?	X		The southwest pylon has several animal burrows around the base. Additionally, the western pylon is deteriorating. Rebar is exposed through concrete.

D. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Have photographs of the site been taken?		X	
2. Is there an imminent hazard to the integrity of the landfill covers?		X	

Notes:

As observed in previous inspections, several small animal burrows were observed on the cell. These burrows have been identified in previous inspections. At this time the burrows have not changed significantly and do not pose an imminent hazard to the integrity of the landfill cover.

E. INSPECTION PERSONNEL: Mary Young, Shantae Green, Meghan Lyle, Jade Poole, and Alex McCarty

Inspector Signature & Date: **ALEXANDER MCCARTY (Affiliate)** Digitally signed by ALEXANDER MCCARTY (Affiliate) Date: 2025.05.12 14:11:25 -06'00'

POST-CLOSURE INSPECTION CHECKLIST

CAU 424, AREA 3 LANDFILL COMPLEXES (TTR) – CAS 03-08-002-A305, LANDFILL CELL A3-5

Inspection Date: 4/23/25	Reason for Inspection: Annual
Date of Last Post-Closure Inspection: 4/23/24	Reason for Last Post-Closure Inspection: Annual
Inspector (name, title, organization): Alex McCarty, Site Lead, RSI	

A. GENERAL INSTRUCTIONS

- **Visual inspection includes features described in this checklist.**
- Field notes are not required if the checklist and associated attachments adequately describe site conditions.
- Photographs are not required but may be taken to document maintenance/repair needs, anomalous features, or new features (such as changes in adjacent area land use).

B. PREPARATION (To be completed prior to the site visit)	YES	NO	EXPLANATION (required if shaded box is checked)
1. Were anomalies or trends detected on previous inspections?	X		Multiple tire tracks were observed on top of the cell. These tracks emanate from a nearby well construction project. During the inspection we were able to discuss vehicle use with the Construction Site Manager. Additionally, USAF representatives were also informed of the issue. They assured us that they will take steps to eliminate driving on top of the landfill.
2. Were maintenance or repairs performed since the last inspection?		X	

C. SITE INSPECTION (To be completed during the site visit)			
UR Signs, Monuments, and Markers:	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are all use restriction signs present and legible?	X		
2. Have any of the monuments been disturbed or damaged?		X	
Waste Unit Cover:	YES	NO	EXPLANATION (required if shaded box is checked)
1. Is there evidence of subsidence, settling or cracking, water ponding, or animal burrows on the cover?		X	
2. Is there evidence of erosion (wind or water) on the cover?	X		Minor erosion was observed around the base of all the monuments.
3. Is there any waste exposed?		X	
4. Are there signs of unauthorized use?		X	
Are there any other issues not specifically described in this checklist?		X	

D. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Have photographs of the site been taken?		X	
2. Is there an imminent hazard to the integrity of the landfill cover?		X	

Notes:

All four monuments have animal burrows and minor erosion around the base. The northeast corner monument has signs of water erosion around the base.


Burrows and erosion do not pose an imminent hazard to the integrity of the landfill cover.

No evidence of unauthorized use that was discovered in the previous year's inspection. Speaking with the USAF contact, the UR was brought up as a frequent reminder after last year's discovery.

E. INSPECTION PERSONNEL: Mary Young, Shantae Green, Meghan Lyle, Jade Poole, and Alex McCarty

Inspector Signature & Date:

ALEXANDER MCCARTY
(Affiliate)

 Digitally signed by ALEXANDER MCCARTY (Affiliate)
Date: 2025.05.12 14:13:01 -06'00'

POST-CLOSURE INSPECTION CHECKLIST

CAU 424, AREA 3 LANDFILL COMPLEXES (TTR) – CAS 03-08-002-A306, LANDFILL CELL A3-6

Inspection Date: 4/23/25	Reason for Inspection: Annual
Date of Last Post-Closure Inspection: 4/23/24	Reason for Last Post-Closure Inspection: Annual
Inspector (name, title, organization): Alex McCarty, Site Lead, RSI	

A. GENERAL INSTRUCTIONS

- **Visual inspection includes features described in this checklist.**
- Field notes are not required if the checklist and associated attachments adequately describe site conditions.
- Photographs are not required but may be taken to document maintenance/repair needs, anomalous features, or new features (such as changes in adjacent area land use).

B. PREPARATION (To be completed prior to the site visit)	YES	NO	EXPLANATION (required if shaded box is checked)
1. Were anomalies or trends detected on previous inspections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Small animal burrows present on site during last visit. Metal debris exposed on surface. Sign denoting the presence of metal debris on cell.
2. Were maintenance or repairs performed since the last inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C. SITE INSPECTION (To be completed during the site visit)			
UR Signs, Monuments, and Markers:	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are all use restriction signs present and legible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Have any of the monuments been disturbed or damaged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Waste Unit Cover:	YES	NO	EXPLANATION (required if shaded box is checked)
1. Is there evidence of subsidence, settling or cracking, water ponding, or animal burrows, on the cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Animal burrows present on landfill cover.
2. Is there evidence of erosion (wind or water) on the cover?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Is there any waste exposed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Are there signs of unauthorized use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are there any other issues not specifically described in this checklist?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

D. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Have photographs of the site been taken?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Is there an imminent hazard to the integrity of the landfill covers?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Notes:

Small animal burrows present on site during last visit. Metal debris exposed on surface. Sign denoting the presence of metal debris on cell. Animal burrows do not pose an imminent hazard to the integrity of the landfill cover.

E. INSPECTION PERSONNEL: Mary Young, Shantae Green, Meghan Lyle, Jade Poole, and Alex McCarty

Inspector Signature & Date:

ALEXANDER MCCARTY
(Affiliate)

Digitally signed by ALEXANDER MCCARTY (Affiliate)
Date: 2025.05.12 14:14:27 -06'00'

POST-CLOSURE INSPECTION CHECKLIST

CAU 453, AREA 9 UXO LANDFILL (TTR) – CAS 09-55-001-0952, AREA 9 LANDFILL

Inspection Date: 4/23/25	Reason for Inspection: Annual
Date of Last Post-Closure Inspection: 4/23/24	Reason for Last Post-Closure Inspection: Annual
Inspector (name, title, organization): Alex McCarty, Site Lead, RSI	

A. GENERAL INSTRUCTIONS

- **Visual inspection includes features described in this checklist.**
- Field notes are not required if the checklist and associated attachments adequately describe site conditions.
- Photographs are not required but may be taken to document maintenance/repair needs, anomalous features, or new features (such as changes in adjacent area land use).

B. PREPARATION (To be completed prior to the site visit)	YES	NO	EXPLANATION (required if shaded box is checked)
1. Were anomalies or trends detected on previous inspections?	X		Cracking was observed on the northern trench during the inspection. Small cracks were filled in with dirt. Erosion did not pose a risk to the cell at the time of inspection.
2. Were maintenance or repairs performed since the last inspection?	X		Repair noted above.

C. SITE INSPECTION (To be completed during the site visit)

UR Signs, Monuments, and Markers:	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are all use restriction signs present and legible?	X		
2. Have any of the monuments been disturbed or damaged?		X	
Waste Unit Cover/Fenced Area:	YES	NO	EXPLANATION (required if shaded box is checked)
1. Is there evidence of subsidence, settling or cracking, water ponding, or animal burrows on the cover?		X	
2. Is there evidence or erosion (wind or water) on the cover?	X		Minor rilling was observed on the western end of the cell.
3. Is there any waste exposed?		X	
4. Are there signs of unauthorized use?		X	
5. Is there vegetation up against the fencing (inside or outside)?		X	
6. Is there damage to or a break in the fencing or fenceposts (signs of wear)?		X	
7. Is there trash or debris within the fenced area?		X	
Are there any other issues not specifically described in this checklist?		X	

D. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Have photographs of the site been taken?		X	
2. Is there an imminent hazard to the integrity of the landfill cover?		X	

Notes:

Small rills were filled in with dirt. Key provided to unlock gate lock did not work. Dirt ingress, rust, or the incorrect key may have been the cause of the issue. Sandia has agreed to daisy chain with an LM lock to prevent future year access issues.

E. INSPECTION PERSONNEL: Mary Young, Shantae Green, Meghan Lyle, Jade Poole, and Alex McCarty

Inspector Signature & Date:

ALEXANDER MCCARTY
(Affiliate)

Digitally signed by ALEXANDER MCCARTY (Affiliate)
Date: 2025.05.12 14:16:58 -06'00'

Appendix D

Field Notes

All observations are recorded on the postclosure inspection checklists presented in Appendix C.
Additional field notes were not created in 2025.

Appendix E

Photographs

Photographs were not taken during 2025.

Appendix F

NDEP Correspondence and Record of Review



January 27, 2026

Ms. Mary Young
Site Manager
U.S. Department of Energy
Office of Legacy Management
2597 Legacy Way
Grand Junction, CO 81503

RE: Submittal of Draft Postclosure Inspection Report for the Tonopah Test Range and Nevada Test and Training Range, Nevada, Sites for Calendar Year 2025
Federal Facility Agreement and Consent Order (FFACO)

Dear Ms. Young:

The Nevada Division of Environmental Protection, Bureau of Federal Facilities (NDEP) has reviewed the *Draft Postclosure Inspection Report for the Tonopah Test Range and Nevada Test and Training Range, Nevada, Sites for Calendar Year 2025* (Report). The Report, dated January 20, 2026, was received electronically on January 22, 2026. Receipt of this Report fulfills the Federal Facility Agreement and Consent Order milestone deadline of April 24, 2026, for the 'TTR and NTTR Post-Closure Sites Draft CY 2025 TTR and NTTR Post-Closure Report to State.' While this letter does serve as a Notice of Completion for the milestone deadline, the NDEP has the following comment, which should be addressed in the Final Report.

1. Appendix C, Page C-9, CAU 453, CAS 09-55-001-0952 Post-Closure Inspection Checklist, Section B Preparation - When compared to the Final Postclosure Inspection Report for the Tonopah Test Range and Nevada Test and Training Range, Nevada, Sites for Calendar Year 2024, Section B of the Report's CAU 453 Post-Closure Inspection Checklist details water erosion migrating towards animal burrows on the south trenches which is what was observed during the 2023 annual inspection instead of cracking observed by the northern trench that was observed during the 2024 annual inspection. Please correct this discrepancy.

If you have any questions regarding this matter, please contact Shantae Greene at (702) 668-3902 or me at (702) 668-3924.

Ms. Mary Young
Page 2 of 2
January 27, 2026

Sincerely,



Meghan J. Lyle
Chief
Bureau of Federal Facilities

MJL/SG

- ec: Shantae Greene, NDEP
EM Records, EM
FFACO Group, EM
MSTS Correspondence Management
R. F. Boehlecke, EM
Tiffany Gamero, EM
Valerie Mason, DTRA/RD-TSE
Scott Tarbox, NNSA/NFO
Jalena Dayvault, DOE-LM
Meghann Hurt, DOE-LM
Rick Findlay, RSI
Anthony Franzone, RSI
Alex McCarty, RSI


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Record of Review

Review requirements are described in the *Document Management Services, Resources, and Procedures* (LMS/PRO/S32818). Reviewers may document any review with this form. This form should not be converted to a PDF until all reviews are complete.

Document Information

Due date¹: 02/27/2026 Review number: 1 Project: PVW - Tonopah Test Range Charge code: _____

Document title, number, and revision: Postclosure Inspection Report for the Tonopah Test Range and Nevada Test and Training Range, Nevada, Sites for Calander Year 2025

Author: Mary Young Author's phone: (970) 712-4992 Author's organization: LM

Reviewer: Meghan Lyle Reviewer's phone: (702) 668-3911 Reviewer's organization: NDEP

Reviewer's recommendation: Release without comment Consider comments Resolve comments and reroute for review Date²: 01/27/2026

Author's response: Comments have been addressed Date²: 02/09/2026

Reviewer's response to comment resolution: Satisfactory Unsatisfactory³ Date²: _____

Author signifies all comments resolved successfully: [REDACTED] Date: _____

¹ Failure to respond to the review request will be considered approval of issuing the document as written.

² Reviewer or author signature not required. Authorization implied by completing date field and submittal of review.

³ If the author or reviewer is dissatisfied with the resolution, the matter may be elevated to the next level of management. If an impasse develops, management must resolve the issue.

Item Number	Reviewer's Comments and Recommendations	Required	Author's Response (if required)
1	Appendix C, Page C-9, CAU 453, CAS 09-55-001-0952 Post-Closure Inspection Checklist, Section B Preparation - When compared to the Final Postclosure Inspection Report for the Tonopah Test Range and Nevada Test and Training Range, Nevada, Sites for Calendar Year 2024, Section B of the Report's CAU 453 Post-Closure Inspection Checklist details water erosion migrating towards animal burrows on the south trenches which is what was observed during the 2023 annual inspection instead of cracking observed by the northern trench that was observed during the 2024 annual inspection. Please correct this discrepancy.	Yes	The inspection checklist in Appendix C, Page C-9, for CAU 453, CAS 09-55-001 was revised to align with observations made in the field. The changes were made to the explanations provided under Section B, responses to questions 1 and 2. They now read as follows: 1. Cracking was observed on the northern trench during the inspection. Small cracks were filled in with dirt. Erosion did not pose a risk to the cell at the time of inspection. 2. Repair noted above.

Record of Review

Item Number	Reviewer's Comments and Recommendations	Required	Author's Response (if required)

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