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Los Alamos
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November 2026

# Fiscal Year 2026 Mitigation Action Plan Annual Report for the Continued Operation of Los Alamos National Laboratory

Environmental Protection and Compliance Division

Environmental Stewardship Group

Los Alamos NATIONAL LABORATORY

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# EXECUTIVE SUMMARY

In compliance with U.S. Department of Energy (DOE)/National Nuclear Security Administration (NNSA) Policy NAP-451.1, National Environmental Policy Act Compliance Program, the DOE/NNSA Los Alamos Field Office compiled the fiscal year (FY; October 1, 2025, through September 30, 2026) "2026 Mitigation Action Plan Annual Report."

This FY 2026 annual report includes mitigations identified in the "Mitigation Action Plan for Los Alamos National Laboratory Operations" (MAP for LANL Operations). Actions taken to meet these mitigations are presented in this report. During FY 2026, the mitigation commitments identified in the MAP for LANL Operations have been met, are ongoing, or are on hold until preceding actions are taken.

# 1 INTRODUCTION

The "Mitigation Action Plan for Los Alamos National Laboratory" (MAP for LANL Operations) is a comprehensive plan for all current and ongoing mitigations identified in the "2008 Site-Wide Environmental Impact Statement" (SWEIS) and other National Environmental Policy Act (NEPA) documents. The MAP for LANL Operations discusses the measures that the U.S. Department of Energy (DOE)/National Nuclear Security Administration (NNSA) considered for the mitigation or reduction of potential adverse effects contributed to operations at Los Alamos National Laboratory (LANL). The MAP is a living document that is revised to incorporate additional mitigation requirements associated with additional records of decision (RODs) and NEPA decisions or to meet the objectives established in the 2008 SWEIS and other NEPA documents.

NNSA Policy, NAP-451.1, National Environmental Policy Act Compliance Program, requires the tracking and annual reporting of the progress made in implementing mitigations and the effectiveness of the mitigation actions committed to in a NEPA decision document and documented in the associated MAPs. This "Mitigation Action Plan Annual Report" (MAPAR) fulfills this requirement, documenting the mitigation actions identified in the MAP for LANL Operations and subsequent MAPs associated with the operation of LANL. As required by the MAP for LANL Operations, a draft MAPAR that summarizes the work conducted by LANL during the previous fiscal year (FY) is submitted for review to the DOE/NNSA Los Alamos Field Office, and this office finalizes and publishes the MAPAR.

The MAP for LANL Operations requires tracking of mitigation actions in a log that includes information regarding the scope, schedule, interim milestones, deliverables, and closures of the mitigation actions and any issues identified during the previous FY. The MAPAR provides the tracking log that summarizes actions taken during the previous FY (Table 3-1).

During the preparation of the MAPAR, the MAP for LANL Operations is reviewed to determine if any mitigation actions have been completed and need to be formally closed. Revision of the MAP for LANL Operations may be recommended in the MAPAR to address significant changes, new actions, or deficiencies.

This MAPAR reports on the status of mitigation commitments and all executed actions for mitigation commitments that have taken place during FY 2026.

# 2 BACKGROUND

In May 2008, the 2008 SWEIS was published. Since then, two associated RODs have been published. The first ROD was published in September 2008, and the second ROD was published in June 2009 (DOE 2008a; 2008b, 2009). In January 2009, the original 2008 SWEIS MAP (DOE 2008c) was finalized. In November 2010, the 2008 SWEIS MAP was revised (DOE 2010a) to incorporate the MAP associated with the "Final Environmental Assessment for the Expansion of the Sanitary Effluent Reclamation Facility and Environmental Restoration of Reach S-2 of Sandia Canyon at Los Alamos National Laboratory, Los Alamos, New Mexico" (DOE 2010b). Following this revision, the 2008 SWEIS MAP was revised several more times to close out completed mitigations and to add new mitigations identified in other NEPA documents, such as environmental assessments (EAs).

## 2.1 2026 LANL SWEIS

The "Final Site-Wide Environmental Impact Statement for Continued Operation of Los Alamos National Laboratory, Los Alamos, New Mexico" (2026 SWEIS; DOE 2026a) and ROD (DOE 2026b) were issued on March 17, 2026. The 2026 SWEIS evaluated the impacts of more than 300 projects and more than 300 decontamination, decommissioning, and demolition projects across LANL. The 2026 SWEIS analyzes the potential environmental impacts of LANL operations for approximately the next 15 years.

In June 2025, DOE prepared new procedures for NEPA implementation, published on the DOE website outside of the Code of Federal Regulations. These new procedures were based on amendments to NEPA made by the Fiscal Responsibility Act in 2023, Executive Orders 14154 and 14301, the rescission by the Council on Environmental Quality (CEQ) of its NEPA implementing regulations, and the recent Supreme Court ruling in Seven County Infrastructure Coalition et al. v. Eagle County, Colorado. DOE began implementing the new NEPA procedures on June 30, 2025.

The new SWEIS and new DOE NEPA procedures create opportunities to re-evaluate how LANL identifies, reports, and monitors mitigations going forward. This includes how mitigations are defined for effectiveness, driven by significance of impacts, the overall value of the mitigations and how they are tracked and reported. Opportunities for adaptive management of mitigation improvements may also be addressed, as well as measurable outcomes driven by specific compliance drivers. These opportunities will be identified in coordination with NNSA stakeholders.

The 2026 Site-Wide Environmental Impact Statement for Continued Operation of Los Alamos National Laboratory, Los Alamos, New Mexico Mitigation Action Plan (SWEIS MAP or MAP) is a comprehensive plan for current and ongoing mitigations at LANL. The purpose of the SWEIS MAP is to describe mitigation actions, the plan for implementing and managing these mitigations, and mitigation action closure requirements.

Several of the mitigation actions in Table 3-1 below have been transferred, meaning that mitigation responsibilities have been incorporated into ongoing operational procedures. These mitigations actions are noted as "closed", and the applicable operational procedure is described. Other mitigation actions that are being incorporated into the 2026 SWEIS MAP are noted as such.

# 3 MITIGATION ACTION COMMITMENTS

Mitigation actions are outlined in the MAPAR Tracking Log for FY 2026, Table 3-1. These actions are based on the mitigation measures and commitments that were previously incorporated in the 2008 SWEIS alternatives and include other mitigation measures and commitments from previous NEPA decisions. In FY 2026, the mitigation commitments identified in the MAP for LANL Operations were completed, are ongoing, are closed, or are on hold until preceding actions are taken.

Table 3-1. Mitigation Tracking Log for FY 2026

| Topic | Mitigation Action Commitment | NEPA Driver | Action Taken | Mitigation Status[1] | Recommendation | Responsible Party |
|---|---|---|---|---|---|---|
| Special Environmental Analysis Mitigations | Monitor biota and sediment contamination behind the Los Alamos Canyon weir and the Pajarito Canyon Flood Retention Structure (FRS) and report results in the Annual Site Environmental Report (ASER). | DOE/SEA-03 (DOE 2000) | • The last biota monitoring at Los Alamos Canyon weir was conducted in 2024. As the monitoring is triennial, the next scheduled is FY2027.<br>• Sediment sampling was attempted at the Los Alamos low head weir in Oct. 2025 but there was no evidence of fresh sediment from the 2025 monsoon season. No sample was collected.<br>• In Nov. 2025, a sediment sample was collected above the Pajarito Flood Retention Structure. Metals, high explosives, SVOCs, PCB Aroclors, dioxins/furans, americium-241, isotopic plutonium, and isotopic uranium were analyzed. All results were below soil screening levels. | Annual requirement complete | • Recommend Los Alamos Canyon weir remain operational and biota monitoring continue on a triennial basis, which coincides with monitoring efforts conducted downstream of the weir (LANL 2024).<br>o Mitigation incorporated into 2026 LANL SWEIS MAP. | LANL Environmental Protection and Compliance (EPC)<br>DOE Environmental Management<br>Newport News Nuclear BWXT (N3B) |
| | Periodically remove sediment from the Los Alamos Canyon weir. | | No sediments were removed in FY 2026 from the sediment detention basins behind the Los Alamos Canyon weir. | Ongoing | • Continue maintenance on clean-outs as necessary.<br>o Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |
| Flood and Sediment Retention Structure | Perform a field visit and inspection triennially of the FRS for structural integrity and safe operations until removed. | DOE/EA-1408 (DOE 2002) | There was no scheduled inspection for FY2026. The next inspection is scheduled for FY2027. | Annual requirement complete | • Mitigation incorporated into 2026 LANL SWEIS MAP. | NA-LA<br>LANL Utilities and Institutional Facilities Division |
| | • Remove portions of the FRS in accordance with DOE/EA-1408.<br>• Recycle demolition spoils from FRS decontamination, decommissioning, and demolition, as appropriate. | | Not applicable | Mitigation on hold | • Remain on hold pending removal of the FRS.<br>o Mitigation incorporated into 2026 LANL SWEIS MAP. | NA-LA<br>LANL |

[1] Green is an annual completed action; yellow is an ongoing action; red is a closed or on-hold mitigation.

| Topic | Mitigation Action Commitment | NEPA Driver | Action Taken | Mitigation Status[1] | Recommendation | Responsible Party |
|---|---|---|---|---|---|---|
| Flood and Sediment Retention Structure (cont.) | • Consider leaving an aboveground portion of the FRS equivalent to the dimensions of a low-head weir to retain potentially contaminated sediments on LANL land. | DOE/EA-1408 (DOE 2002) | Not applicable | Mitigation on hold | • Remain on hold pending removal of the FRS.<br>o Mitigation incorporated into 2026 LANL SWEIS MAP. | NA-LA<br>LANL Associate Directorate for Nuclear and High-Hazard Operations |
| | • Remove aboveground portions of the steel diversion wall below the FRS.<br>• Re-contour and re-seed disturbed areas to protect surface water quality in Pajarito Canyon after the FRS is removed. | DOE/EA-1408 (DOE 2002) | Not applicable | Mitigation on hold | • Remain on hold pending removal of the FRS.<br>o Mitigation incorporated into 2026 LANL SWEIS MAP. | LANL EPC |
| Off-Site Source Recovery Project (OSRP) | Institute adequate controls on quantities and methods of storing sealed sources that contain cobalt-60, iridium-192, or cesium-137 to mitigate effects of potential accidents. | 2008 LANL SWEIS ROD DOE/EIS-0380 (DOE 2008b) | Not applicable. | Mitigation closed | • OSRP has not and does not bring any cobalt-60, iridium-192, or cesium-137 sealed sources onsite to LANL for management. There is no capability to store or manage.<br>o Mitigation Closed. | NA-LA<br>LANL Nuclear Engineering and Nonproliferation Division |
| Wildland Fire Management | Continue to further reduce risks from wildfire by shipping legacy transuranic waste currently stored in the Technical Area 54 domes to the Waste Isolation Pilot Plant (WIPP). | DOE Wildfire Management Policy (February 2004)<br>2001 Federal Wildland Fire Management Policy and Implementing Actions (January 2001)<br>SWEIS MAPs DOE/EIS-0380 (DOE 2008c) | TRU waste responsibilities are described in Service Agreement/Work Authorization LLCC-001. The document describes N3B and Triad responsibilities re: shipment of TRU waste and TA-54. | Mitigation closed | • TRU waste responsibilities are described in Service Agreement/Work Authorization LLCC-001. The document describes N3B and Triad responsibilities regarding shipment of TRU waste and TA-54.<br>o Mitigation Closed. | NA-LA<br>DOE Environmental Management<br>N3B<br>LANL EPC |

| Topic | Mitigation Action Commitment | NEPA Driver | Action Taken | Mitigation Status[1] | Recommendation | Responsible Party |
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| Chromium Plume Control Interim Measure and Plume-Center Characterization | **Threatened and endangered species habitat**<br>All requirements in the HMP will be implemented for all aspects of the project. These requirements may include: timing restrictions on noise producing activities during the Mexican Spotted Owl breeding season, tree removal restrictions, and lighting requirements. Surveys for the Mexican Spotted Owl in Sandia, Mortandad, and surrounding canyons will be implemented annually. Surveys for sensitive plants will be performed within suitable habitat areas prior to activities. | DOE/EA-2024 (DOE 2024a; 2024b) | Met restrictions for the Endangered Species Act and the LANL Threatened and Endangered Species Habitat Management Plan (LANL 2022) for FY 2026. | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |
| | **Migratory birds**<br>Site-specific requirements for migratory bird protections will be detailed in the EPC-ES integrated review tool. On-going migratory bird research in Sandia Canyon will be continued under the MAP to continue monitoring for changes in bird diversity. | | Continue to implement. | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |
| | **Game animals and other wildlife**<br>Implement actions to improve habitat for large game and other wildlife. Habitat improvements may include planting native vegetation to supplement food resources and installation of supplemental water sources. | | Continue to implement as necessary. Disturbed areas are seeded with a native seed mix that conforms to LANL's Pollinator Protection Plan (LANL 2021). | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |

| Topic | Mitigation Action Commitment | NEPA Driver | Action Taken | Mitigation Status[1] | Recommendation | Responsible Party |
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| Chromium Plume Control Interim Measure and Plume-Center Characterization (cont.) | Drilling work and other construction activities along the boundary will be scheduled to the extent practicable so as not to occur during elk and deer hunting seasons. After soil disturbing activities have been completed, disturbed sites will be restored with re-contouring and planted with a native seed mix or native vegetation plantings. When available, native seed stock should include species identified in the "Pollinator-Friendly Best Management Practices for Federal Lands" document, as directed by the Secretary of Energy on October 19, 2015, regarding the Presidential Initiative on Pollinator Health. | DOE/EA-2024 (DOE 2024a; 2024b) | | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |
| | **Surface water quality**<br>Develop and use BMPs, and comply with the requirements of the NPDES CGP, to prevent or minimize the transport of sediment or other potential pollutants from disturbed areas during construction and implementation of the project.<br>Required BMPs for work under the discharge permit DP-1793 will be implemented as well. These protection standards will minimize short-term negative impacts. They include the following guidelines for land application: | | Continue implementation to maintain all National Pollutant Discharge Elimination System Construction General Permit requirements for FY 2026. | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |

| Topic | Mitigation Action Commitment | NEPA Driver | Action Taken | Mitigation Status[1] | Recommendation | Responsible Party |
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| Chromium Plume Control Interim Measure and Plume-Center Characterization (cont.) | • sites cannot be located in a watercourse;<br>• cannot result in runoff to a watercourse;<br>• cannot create ponds or pools;<br>• must be conducted in a manner that maximizes infiltration and evaporation;<br>• restricted to daylight hours and for a maximum of 10 hours per day;<br>• must be supervised at all times; and<br>• prohibited while precipitation is occurring. | DOE/EA-2024 (DOE 2024a; 2024b) | | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |
| | **Cultural resources, Native American Graves Protection and Repatriation Act, and Traditional Cultural Properties**<br>CRMP provisions will be followed and may be augmented to address specific site issues as the project is implemented. If buried archeological resources, remains, or items of cultural significance are encountered during construction, site activities will cease until items are evaluated by EPC-ES and DOE EM-LA cultural resources staff and appropriate actions are taken. | | Continue implementation. | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |

| Topic | Mitigation Action Commitment | NEPA Driver | Action Taken | Mitigation Status[1] | Recommendation | Responsible Party |
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| Chromium Plume Control Interim Measure and Plume-Center Characterization (cont.) | If traditional cultural properties are identified during construction, site activities will cease until appropriate mitigation measures are determined through consultation with the State Historic Preservation Officer and the involved Tribal government. | DOE/EA-2024 (DOE 2024a; 2024b) | | | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |
| | **Visual**<br>Use directional lighting whenever possible. Infrastructure may be painted so that it blends in with the landscape more effectively. | | No actions were taken in FY 2026. | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |
| | **Noise**<br>Noise-diminishing equipment will be used whenever possible. | | Met noise and tree-cutting restrictions associated with the Endangered Species Act and the LANL Threatened and Endangered Species Habitat Management Plan (LANL 2022) for FY2026. | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |
| | **Worker Health and Safety**<br>Adherence to an approved health and safety plan, use of personal protective equipment and engineered controls, and completion of appropriate hazards training would be expected to help prevent adverse acute or chronic health effects to workers. | | Continue implementation and use of approved health and safety plan, use of personal protective equipment and engineered controls, and completion of appropriate hazards training. | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |
| | **Tribal Consultation** | | Consultations continue. | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |

| Topic | Mitigation Action Commitment | NEPA Driver | Action Taken | Mitigation Status[1] | Recommendation | Responsible Party |
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| Chromium Plume Control Interim Measure and Plume-Center Characterization (cont.) | Consult with the Pueblo de San Ildefonso to schedule drilling work and other construction activities to avoid hunting and calving seasons and conflicts with ceremonial observances on Pueblo de San Ildefonso property.<br>Continue consultations to address noise and construction over the Sacred Area. Also see cultural artificial lighting concerns and visual impacts on viewshed resources. | DOE/EA-2024 (DOE 2024a; 2024b) | | | • Mitigation incorporated into 2026 LANL SWEIS MAP. | |
| | **Land Use**<br>Remove all trash and debris after construction, well pad footprints will be limited to what is necessary to minimize the visual impact from the proposed action. As infrastructure is downsized or no longer needed, re-vegetate with native grasses and trees to contribute to restoration of the area. | | Continue implementation. | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |
| | **Air quality**<br>• Where feasible, electrify fossil fuel-powered well development generators and stationary engines;<br>• Use only ultra-low sulfur diesel fuel in equipment and vehicles;<br>• Provide economic incentives to drilling contractors to use equipment with engines that meet EPA nonroad Tier 4 emission standards; and | | Continue implementation. | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |

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| | Designate personnel to monitor the dust control program and to increase control measures, as necessary, to prevent the transport of project dust emissions beyond the LANL boundary. | | | | | |
| Chromium Plume Control Interim Measure and Plume-Center Characterization (cont.) | **Soil**<br>• Soil erosion would be mitigated by adherence to BMPs, including installation of ground cover, straw wattles, silt fencing, and dust suppression by soil watering. | DOE/EA-2024 (DOE 2024a; 2024b) | Continue implementation. | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |
| | **Water**<br>Water use is an important issue in northern New Mexico. For this project, injection would offset extraction by returning water directly back to the aquifer. | | Continue implementation. | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |
| | **Floodplain and Wetlands**<br>• Installing support structures (e.g., personnel trailers, storage tanks, or permanent laydown yards) outside the floodplain;<br>• Providing revegetation of areas following soil disturbances using an appropriate native perennial seed mix or plants;<br>• Removing all trash and debris (e.g., construction material) from the floodplain after completion;<br>• Implementing erosion and sediment control measures during construction; | | Continue implementation. | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |

| Topic | Mitigation Action Commitment | NEPA Driver | Action Taken | Mitigation Status[1] | Recommendation | Responsible Party |
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| Chromium Plume Control Interim Measure and Plume-Center Characterization (cont.) | • Locating permanent equipment staging areas outside the floodplain;<br>• Storing hazardous materials, chemicals, fuels, and oils outside the floodplain; and<br>• All equipment that can be efficiently moved will be refueled at least 100 ft from the floodplains or wetland. Equipment requiring refueling within the floodplain will be refueled only while within secondary containment to eliminate the risk of accidental discharge of fuel to the ground surface. | | Continue consultation. | Ongoing | • Mitigation incorporated into 2026 LANL SWEIS MAP. | DOE Environmental Management<br>N3B |
| Wildland Fire/Forest Management | *Fire Road Stabilization*<br>• Update the LANL Engineering Standards to include standards for new unpaved roads to be more resilient to damage from storm water.<br>• Inspect fire roads and propose and prioritize improvements to reduce storm water erosion. Prioritized projects would be incorporated into existing storm water work planning. If necessary, recommend the closure or replacement of fire and other unimproved roads.<br>• Develop a procedure for monitoring cultural resource sites near fire roads and firebreaks. Include additional | Wildfire Supplemental Environmental Assessment (SEA; DOE/EA-1329-S1) (DOE 2019a) | See "Recommendation". | Mitigations closed | • New unpaved roads are built in compliance with National Pollution Discharge Elimination System (NPDES) Construction General Permit (CGP) and Energy Independence and Security Act 438. These compliance obligations incorporate engineering standards that require roads be designed to be resilient to stormwater erosion.<br>o Mitigation Closed.<br>• Inspection of fire roads is conducted by wildland fire and captured on form EMD-FORM-370, R0. If erosion is identified, wildland fire works with Water Permitting & Compliance Subject Matter Experts (SMEs) on appropriate mitigations.<br>o Mitigation Closed. | Standards for new unpaved roads - Utilities and Institutional Facilities<br><br>Fire road stormwater inspection – Stormwater Program (EPC-Stormwater)<br>EMD<br><br>Cultural Resource site monitoring – Cultural Resources Program (EPC) |

| Topic | Mitigation Action Commitment | NEPA Driver | Action Taken | Mitigation Status[1] | Recommendation | Responsible Party |
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| Wildland Fire/Forest Health (cont.) | monitoring requirements and treatments as needed. | Wildfire Supplemental Environmental Assessment (SEA; DOE/EA-1329-S1) (DOE 2019a) | See "Recommendation". | Mitigations closed | • EPC-ES-TP-407 Archaeological Monitoring and Site Inspections includes a procedure for monitoring cultural resources near fire roads and firebreaks. The focus is on annual evaluation of the condition of fences and basecourse that caps the road, repairing fences and improving basecourse where they protect archaeological sites, determining where additional basecourse and fencing should be added to improve the efficiency of protecting sites during fire road and firebreak maintenance, and educating heavy equipment operators about how to avoid impacts to cultural resources.<br>o Mitigation Closed. | |
| | Develop and implement an annual operating plan for fuels mitigation and forest health actions. | | See "Recommendation". | Mitigation closed. | • The Wildland Fire and Forest Management Program prioritizes mitigation work based on the 2021 Site-Wide Risk Analysis and Values at Risk Assessment, a comprehensive analysis taking into consideration LANL topography, vegetative fuels, and nearby facilities, and generates fire danger ratings ranging from "Low" to "Extreme". Mitigation work is focused in areas of "Extreme" or "Very High" fire danger potential or other areas as needed to support mission objectives.<br>o Mitigation Closed. | LANL Emergency Management Lead Division with EPC input |

| Topic | Mitigation Action Commitment | NEPA Driver | Action Taken | Mitigation Status[1] | Recommendation | Responsible Party |
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| Wildland Fire/Forest Health (cont.) | Fuels Mastication Adaptive Management | Wildfire Supplemental Environmental Assessment (SEA; DOE/EA-1329-S1) (DOE 2019a) | See "Recommendation". | Mitigation closed. | • Wildland Fire Mitigations Strategies White Paper LA-UR-20-24427 was completed.<br>o Mitigation Closed.<br>• Beginning 2022 and continuing, post treatment, masticated materials have been utilized to meet NPDES CGP stabilization requirements. Areas where masticated materials were used were monitored for vegetative growth. Later stabilization methods using masticated materials were informed by the monitoring results from previous treatments through adaptive management, resulting in quicker vegetative reestablishment.<br>o Mitigation closed. | LANL EMD |
| | Development or adoption of a LANL invasive species best management practices document | | • See "Recommendation". | Mitigation closed. | • Invasive Plant Species Management Plan (LA-UR-22-32639, R3) was published in May 2024 and is being implemented.<br>o Mitigation closed. | LANL EPC |

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# ACRONYMS AND ABBREVIATIONS

| Acronym | Definition |
|---|---|
| ASER | Annual Site Environmental Report |
| BMP | best management practice |
| CGP | Construction General Permit |
| CRMP | Cultural Resources Management Plan |
| DOE | (U.S.) Department of Energy |
| EA | Environmental Assessment |
| EM-LA | Environmental Management Los Alamos |
| EPA | (U.S.) Environmental Protection Agency |
| EPC | Environmental Protection and Compliance (Division) |
| ES | Environmental Stewardship (Group) |
| FRS | flood retention structure |
| FY | fiscal year |
| HMP | Habitat Management Plan |
| LANL | Los Alamos National Laboratory |
| MAP | mitigation action plan |
| MAPAR | mitigation action plan annual report |
| N3B | Newport News Nuclear BWXT Los Alamos |
| NA-LA | NNSA Los Alamos Field Office |
| NEPA | National Environmental Policy Act |
| NNSA | National Nuclear Security Administration |
| NPDES | National Pollution Discharge Elimination System |
| PV | photovoltaic array |
| ROD | record of decision |
| SWEIS | site-wide environmental impact statement |
| WIPP | Waste Isolation Pilot Plant |