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Welcome to the Public Meetings for the Chromium Interim Measures and Final Remedy Draft Environmental Assessment

January 22, 2024



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EM-LA thanks you for your participation. The presentation will begin momentarily.



Today's Agenda

NEPA Process

- National Environmental Policy Act (NEPA)
- Comments Received During Scoping
- Purpose of Public Meetings

Project Background

- Purpose and Need
- Alternatives Evaluated
- Environmental Impacts Analyzed
- Impact Summary of Proposed Action

Comment Submission

Timeline and ProceduresHow to Submit a SubstantiveComment





National Environmental Policy Act (NEPA)

NEPA is a Federal law that requires federal agencies to identify and consider the environmental consequences of implementing projects

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The analysis of environmental consequences presented in an EA accomplishes the following objectives: Identifies and describes the affected environment

Provides sufficient evidence and analysis for determining whether to prepare an Environmental Impact Statement (EIS) or a Finding of No Significant Impact (FONSI)

Evaluates the potential environmental consequences of reasonable alternatives

The EA process concludes with a FONSI or decision to proceed with an EIS





Comments Received During Scoping

The scoping period was from April 28, 2023 to June 6, 2023

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- **7** scoping comment documents were submitted to EM-LA
- **99** individual comments were identified
- EM-LA responded to public comments in Appendix A of the Draft EA

Comment Delineations

- Alternatives
- Consultation and Coordination
- Environmental Impacts
- Human Health
- Nature and Extent of the Hexavalent Chromium Plume
- NEPA Process
- Public Participation
- Purpose and Need
- Regulatory Requirements
- Out of Scope





Purpose of Public Meetings

Purpose of Public Meetings

Provide the public with information regarding the Chromium Interim Measures (IM) and Final Remedy, and inform the public on how EM-LA will evaluate proposed alternatives in the EA

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Inform the public about potential environmental impacts of the Proposed Action and Alternatives

Provide opportunities to make formal comments and ask questions to technical experts on the Draft EA

Seek feedback from stakeholders, including local, state, and federal agencies; local and state elected officials, pueblos, non-governmental organizations, and the public on the Draft EA

Public comments will be part of the official NEPA record, and EM-LA's responses will be included in the Final EA.





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Purpose and Need

- In accordance with applicable Federal and state regulations, and the 2016 Compliance Order on Consent (Consent Order) between DOE and the New Mexico Environment Department (NMED), EM-LA needs to assess, identify, clean-up, and otherwise address environmental contamination at LANL
- The purpose of the proposed action is to remediate hexavalent chromium contaminated groundwater below Sandia and Mortandad canyons
- EM-LA needs to evaluate both the Interim Measures and a final remedy
- The primary objective of the IM is to control downgradient migration of the hexavalent chromium plume beyond the LANL boundary, with the benefit of removing some chromium mass from the regional aquifer
- EM-LA needs to evaluate alternatives for groundwater remediation to achieve compliance with the New Mexico chromium groundwater standard





Alternatives Evaluated

No Action Alternative Continue Interim Measures and Plume Characterization

- The No Action Alternative is the continuation of the preferred alternative in the 2015 Interim Measures EA (DOE/EA-2005) (DOE, 2015) and Finding of No Significant Impact (December 2015), whereby EM-LA would control plume migration and maintain chromium contamination concentrations within the LANL boundary while continuing to evaluate long-term corrective action remedies, including options for chromium mass removal
- "No action" does not necessarily mean doing nothing but involves maintaining or continuing the existing status or conditions
- Under the No Action Alternative, EM-LA would control plume migration and maintain hexavalent chromium contamination levels within the LANL boundary while long-term corrective action remedies continue to be evaluated and implemented
- EM-LA would continue to further characterize the plume to evaluate the effectiveness and feasibility of implementing a remedy



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Alternatives Evaluated

Proposed Action Adaptive Site Management

- EM-LA would use adaptive site management (ASM) to select, implement, and manage removal of hexavalent chromium from source areas and the groundwater
- The use of ASM helps develop effective cleanup strategies by ensuring continuous planning, implementation, and monitoring that accommodates new information and changing site conditions

- In accordance with the 2016 Consent Order, the remedy will be selected by NMED after EM-LA submits a Corrective Measures Evaluation (CME) Report to NMED
- The CME Report will identify and evaluate potential corrective measures for removal, containment, and/or treatment of the hexavalent chromium plume
- In the CME Report, DOE will also recommend a preferred alternative for remediation
- NMED will then issue a Statement of Basis, engage in a public comment period, and select a remedy





Alternatives Evaluated

Proposed Action Adaptive Site Management (ASM)

ASM Options

Four ASM Options can be utilized individually or as a combination to remediate chromium contaminated groundwater:

- **Option 1:** Mass Removal via Expanded Treatment
- **Option 2:** Mass Removal with Land Application
- **Option 3:** Mass Removal via In-situ Treatment
- **Option 4:** Monitored Natural Attenuation (MNA)



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Monitoring protocols to determine the effectiveness of the ASM options:

Groundwater monitoring, surface water monitoring, potentiometric mapping, and flow and solute monitoring

Desired Outcomes:

- Control migration of hexavalent chromium in groundwater
- Remove the mass of hexavalent chromium in groundwater
- Control, reduce, or eliminate the sources of hexavalent chromium in groundwater
- Protect human and ecological receptors
- Manage remediation waste in accordance with State and Federal regulations

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- Air Quality
- Cultural Resources
- Ecological Resources (Vegetation, Wildlife, Special Status Species)
- Environmental Justice
- Geology and Soils
- Hazardous Materials and Waste Generation
- Human Health and Worker Safety
- Land Use
- Noise
- Socioeconomics
- Traffic and Transportation
- Utilities and Infrastructure
- Visual Resources
- Water Resources (Groundwater, Surface Water, Wetlands, and Floodplains)





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Impact Summary of Proposed Action

Short-Term Impacts

- Minimal environmental consequences caused by construction activities
- Positive impacts on socioeconomics and groundwater quality

Long-Term Impacts

- Minimal environmental consequences caused by operations activities
- Positive impacts on socioeconomics and groundwater quality

Cumulative Environmental Impacts

- The Proposed Action is not expected to substantially contribute to cumulative impacts
- Positive impacts on socioeconomics and groundwater quality



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Timeline and Procedures for Comment Submission

December 14, 2023 EM-LA Posts Notice of Availability for the Draft EA (triggers a 60-day comment period)

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January 22 and 24, 2024 Public Meetings

February 12, 2024 60-day Public Comment Period Ends

Spring, 2024 EM-LA Posts and Distributes Final EA

> **TBD, 2024** DOE Announces Findings



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Provide comments **<u>TODAY</u>** by:

- Recording a verbal comment with the stenographer to the left of the stage.
- Submitting a written comment form to an EM-LA representative in the back of the room.

Submit comments <u>LATER</u> by:

• Submitting comments via email, with "Chromium Draft EA Public Comment" in the subject line to:

emla-nepa@em.doe.gov

• Or submitting comments by U.S. Mail to:

ATTN: NEPA Document Manager U.S. DOE Environmental Management Los Alamos Field Office 1200 Trinity Drive, Suite 400 Los Alamos, NM 87544

Comments should be postmarked by <u>February 12,</u> <u>2024</u>, for consideration in the Final EA



How to Submit a Substantive Comment

NEPA requires an environmental analysis prior to taking a federal action, as a part of increasing meaningful involvement of affected communities, EM-LA requests public comments on the proposed action.

- Substantive comments identify potential alternatives, information, and analyses relevant to the NEPA evaluation; or identify potential impacts or feasible mitigation
- Non-substantive comments are those that express a conclusion, an opinion, a vote for or against the Proposed Action, or otherwise state a personal preference or opinion
- DOE respectfully requests substantive comments on the Draft EA

To receive a notice of availability of the Final EA, please sign up for the notification list by entering your contact information on the meeting sign-in form or sending an email to **emla-nepa@em.doe.gov**





EM-LA, N3B, and Leidos

| ENERCY MANAGEMENT Introductions | |
|--|---|
| EM-LA Representatives | N3B Representatives |
| Brian Harcek, Director, Office of Quality and Regulatory Compliance | Alan Madsen , N3B NEPA Specialist |
| Cheryl Rodriguez, Director, Office of Cleanup Execution | Mike Erickson, N3B Director, Water Program |
| Hai Shen, NEPA Document Manager | Troy Thomson, N3B Program Manager, Environmental Remediation |
| Tom McCrory, Senior Geologist | Leidos Representative |
| | Miranda Lawson, Leidos, Public Outreach Coordinator |
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Thank You for participating in this Public Meeting

EM-LA would like to thank all attendees for their interest and participation

A review on how to submit comments outside of this meeting is available on the following slide



ENVIRONMENTAL MANAGEMENT SAFETY & PERFORMANCE & CLEANUP & CLOSURE For your convenience, a copy of this presentation is available online at: <u>www.energy.gov/em-la/presentations</u>



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BACKUP SLIDE





- > November 2022: NMED directed EM-LA to cease injection
- March 2023: EM-LA ceased injection per regulatory direction and thus operation of the IM:
 - Extraction not feasible without injection
- Monitoring well data shows regulatory direction is adversely impacting regional aquifer:
 - EM-LA notified NMED of concern with chromium increases
- December 2023: EM-LA submitted response to NMED's September 2023 corrective action letter requesting approval for partial restart of Chromium Interim Measures; awaiting NMED response
- Ongoing: EM-LA conducting three-party technical meetings with EM-LA/N3B, NMED, and Pueblo de San Ildefonso

