



DEPARTMENT OF ENERGY
Environmental Management Los Alamos Field Office (EM-LA)
Los Alamos, New Mexico 87544

EMLA-23-BF288-2-1

July 28, 2023

Mr. Rick Shean
Designated Agency Manager
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6313



Subject: Transmittal of Proposed Consent Order Appendix B for Fiscal Year 2024

Dear Mr. Shean:

This letter transmits the U.S. Department of Energy (DOE) Environmental Management Los Alamos Field Office (EM-LA) proposed Appendix B for fiscal year (FY) 2024. This letter is provided in accordance with Sections VIII(C)(1) and (C)(3)(a) of the 2016 Compliance Order on Consent (Consent Order).

Specifically, Section VIII(C)(1) states that the Parties will use the annual planning process to update Appendix A, Appendix B, and Appendix C, as appropriate. Section VIII(C)(3)(a) states that, to the extent possible, DOE will provide to the New Mexico Environment Department (NMED) a forecast indicating potential, proposed changes to Appendix B (e.g., redline) by the end of July each year.

EM-LA looks forward to collaborative discussions with NMED to finalize Appendix B for FY 2024.

If you have any questions, please contact me at (575) 373-5966 (arturo.duran@em.doe.gov).

Sincerely,

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Date: 2023.07.28 14:44:30
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Arturo Q. Duran For
Compliance and Permitting Manager
U.S. Department of Energy
Environmental Management
Los Alamos Field Office

Enclosure(s):

1. Two hard copies with electronic files:
Proposed Appendix B Milestones and Targets (EM2023-0562)

cc (letter and enclosure[s] emailed):

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Raymond Martinez, San Ildefonso Pueblo, NM
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Enclosure 1

*Proposed Appendix B
Milestones and Targets*

APPENDIX B MILESTONES AND TARGETS

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			FY 2024 PROPOSED MILESTONES			FY 2025 PROPOSED TARGETS			FY 2026 PROPOSED TARGETS		
	Campaign	Milestone # FY 2024	PROPOSED Milestone	Milestone Description	Milestone Date	PROPOSED Target	Target Description	Target Date	PROPOSED Target	Target Description	Target Date
	Chromium IM & Characterization RDX Characterization MDAs-A & -T Remedy MDA-C Remedy MDA-H Remedy MDAs-G & -L Remedies	1	Interim Facility-Wide Groundwater Monitoring Plan (IFGMP) for MY 2025 (October 2024-September 2025)	Annual update to the groundwater monitoring program baseline document with adjustments to sampling, monitoring groups, analytes, and frequencies based on previous results.	6/30/2024	Interim Facility-Wide Groundwater Monitoring Plan (IFGMP) for MY 2026 (October 2025-September 2026)	Annual update to the groundwater monitoring program baseline document with adjustments to sampling, monitoring groups, analytes, and frequencies based on previous results.	6/30/2025	Interim Facility-Wide Groundwater Monitoring Plan (IFGMP) for MY 2027 (October 2026-September 2027)	Annual update to the groundwater monitoring program baseline document with adjustments to sampling, monitoring groups, analytes, and frequencies based on previous results.	6/30/2026
Chromium IM & Characterization - in progress	Chromium IM & Characterization	2	Annual Progress Report on Chromium Plume Control Interim Measure Performance	This progress report summarizes the data collected from performance monitoring wells, operational activities, and analysis of performance of the IM with respect to the plume control objective. This report will cover the period April 1, 2023 to March 31, 2024.	6/30/2024	Annual Progress Report on Chromium Plume Control Interim Measure Performance	This progress report summarizes the data collected from performance monitoring wells, operational activities, and analysis of performance of the IM with respect to the plume control objective. This report will cover the period April 1, 2024, to March 31, 2025.	6/30/2025	Annual Progress Report on Chromium Plume Control Interim Measure Performance	This progress report summarizes the data collected from performance monitoring wells, operational activities, and analysis of performance of the IM with respect to the plume control objective. This report will cover the period April 1, 2025, to March 31, 2026.	6/30/2026
	Chromium IM & Characterization					Corrective Measures Evaluation ("CME") Report for the Chromium Final Remedy Campaign	The CME Report will identify, develop, and evaluate potential corrective measures alternatives for removal, containment, and/or treatment of the chromium plume and will include a preferred remedy alternative for remediation.	6/30/2025			
	Chromium IM & Characterization	3	Letter Report Documenting Completion of Regional Aquifer Monitoring Well R-76 and Collection of First Samples	Well R-76 will replace Well R-28 for chromium plume characterization and monitoring. Well R-76 will be located approximately 150-ft northwest of Well R-28. The deliverable is a letter to NMED documenting completion of the well and collection of first samples.	4/30/2024 ^a						
	Chromium IM & Characterization		Letter Report Documenting Start of the Drilling of Regional Aquifer Monitoring Well R-77	Well R-77 is a characterization and monitoring well for deep contamination in the chromium plume center. R-77 will be located approximately 75 ft southeast of CrEX-4. The deliverable is a letter to NMED documenting the start of drilling Well R-77.	12/15/2023 ^b						
	Chromium IM & Characterization	4	Drilling Work Plan for Regional Aquifer Monitoring Well R-79, Revision 1	Well R-79 is a characterization and monitoring well at the approximate depth of Well R-70 screen 2. The deliverable will be a Drilling Work Plan for the Regional Aquifer Monitoring Well.	10/31/2023	Letter Report Documenting Completion of Regional Aquifer Monitoring Well R-79 and Collection of First Samples.	Well R-77 is a characterization and monitoring well for deep contamination in the chromium plume center. R-77 will be located approximately 75 ft southeast of CrEX-4. Well R-79 is a characterization and monitoring well at the approximate depth of R-70 screen 2. The deliverable is a letter to NMED documenting completion of the well and collection of first samples.	3/31/2025 ^a			

^aDate is based on the New Mexico Office of the State Engineer (OSE) issuing the drilling permit within 60 calendar days after DOE submits a drilling permit application.

Note: Milestone Dates and Target Dates in this Appendix B are contingent on:

(1) New Mexico Environment Department completion of its review pursuant to Section XXIII.D and Appendix D of the 2016 Compliance Order on Consent; and
(2) DOE's ability to obtain on a timely basis, necessary authorizations, approvals, permits, or licenses of any governmental agency or authority.

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	Chromium IM & Characterization	5	Drilling Work Plan for Regional Aquifer Monitoring Well SIMR-3	Well SIMR-3 is a characterization and monitoring well on Pueblo de San Ildefonso property. The deliverable is a Drilling Work Plan for Well SIMR-3.	10/31/2023						
	Chromium IM & Characterization	6	Letter Report Documenting Completion of Regional Aquifer Monitoring Well SIMR-3 and Collection of First Samples	The well is a characterization and monitoring well for deep contamination in the chromium plume located in the southern region of the plume in an undetermined location. Well SIMR-3 is a characterization and monitoring well on Pueblo de San Ildefonso property. The deliverable is a letter to NMED documenting completion of the well and collection of first samples.	9/30/2024 ^a						
	Chromium IM & Characterization	7	Letter Report Documenting Completion of Regional Aquifer Monitoring Well R-80 and Collection of First Samples	Well R-80 is a characterization and monitoring well for vertical and lateral extent of the chromium plume along the eastern plume edge, halfway between Wells R-70 and R-13 (east/southeast of R-45). The deliverable is a letter to NMED documenting completion of the well and collection of first samples.	1/31/2024^a 6/28/2024 ^a						
	Chromium IM & Characterization	8	Drilling Work Plan for Regional Aquifer Monitoring Well R-77, Revision 2	This well R-77 is a characterization and monitoring well for vertical extent at a revised location. deep contamination in the chromium plume in an undetermined location. The deliverable will be a Drilling Work Plan for the Regional Aquifer Monitoring Well..	12/1/2023 3/29/2024	Letter Report Documenting Completion of Regional Aquifer Monitoring Well R-77 and Collection of First Samples	Well R-77 is a characterization and monitoring well for vertical extent at a revised Well R-77 location. The deliverable is a letter to NMED documenting completion of the well and collection of the first samples.	1/31/2025 ^a			
	Chromium IM & Characterization		Letter Report Documenting Completion of Regional Aquifer Monitoring Well and Collection of First Samples	The well is a characterization and monitoring well for deep contamination in the chromium plume located in the southern region of the plume in an undetermined location. The deliverable is a letter to NMED documenting completion of the well and collection of first samples.	9/30/2024^a	Drilling Work Plan for Regional Aquifer Monitoring Well R-81	Well R-81 is a characterization and monitoring well to identify the lower boundary of the chromium plume into the Chamita Formation. The deliverable will be a Drilling Work Plan for Well R-81.	11/1/2024			
	Chromium IM & Characterization		Letter Report Documenting Completion of Regional Aquifer Monitoring Well R-79 and Collection of First Samples	Well R-79 is a characterization and monitoring well for vertical and lateral extent of the chromium plume in the northeastern part of the plume, between wells R-11 and R-35a/b (east of R-11). The deliverable is a letter to NMED documenting completion of the well and collection of first samples.	9/30/2024 ^a	Letter Report Documenting Completion of Regional Aquifer Monitoring Well R-81 and Collection of First Samples	Well R-81 deeper well screen to be installed to identify the lower boundary of the chromium plume. The deliverable is a letter to NMED documenting completion of the well and collection of the first samples.	9/30/2025 ^a			

^aDate is based on the New Mexico Office of the State Engineer (OSE) issuing the drilling permit within 60 calendar days after DOE submits a drilling permit application.

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	Chromium IM & Characterization					Drilling Work Plan for Regional Aquifer Monitoring Well R-73R	Well R-73R is a characterization and monitoring well for the replacement of R-73. The deliverable will be a Drilling Work Plan for Well R-73R.	3/31/2025	Letter Report Documenting Completion of Regional Aquifer Monitoring Well R-73R and Collection of First Samples	Well R-73R is a characterization and monitoring well for the replacement of R-73. The deliverable is a letter to NMED documenting completion of the well and collection of the first samples.	1/30/2026 ^a
Chromium Final Remedy Campaign - not started	Chromium Remedy										
Historical Properties Completion - in progress	Historical Properties Completion										
RDX Characterization - in progress	RDX Characterization					Letter Report Documenting Completion of Regional Aquifer Monitoring Well R-74 and Collection of First Samples	Well R-74 is a characterization and monitoring well for vertical extent of RDX contamination downgradient of the TA-16-260 outfall, between wells R-69 and R-18. The deliverable is a letter to NMED documenting completion of the well and collection of first samples.	3/31/2025 ^a	Letter Report Documenting Completion of Regional Aquifer Monitoring Well R-74 and Collection of First Samples	Well R-74 is a characterization and monitoring well for the vertical extent of RDX contamination downgradient of the Technical Area 16 260 outfall, between Wells R-69 and R-18. The deliverable is a letter to NMED documenting completion of the well and collection of the first samples.	6/30/2026 ^a
	RDX Characterization		Drilling Work Plan for Regional Aquifer Monitoring Well R-75	Drilling Work Plan for monitoring well R-75. Well R-75 is a characterization and monitoring well for lateral extent of RDX contamination in the region to the northeast of the TA-16-260 outfall.	9/30/2024	Letter Report Documenting Completion of Regional Aquifer Monitoring Well R-75 and Collection of First Samples. Drilling Work Plan for Regional Aquifer Monitoring Well R-75	Drilling Work Plan for monitoring well R-75. Well R-75 is a characterization and monitoring well for lateral extent of RDX contamination in the region to the northeast of the Technical Area-16 260 outfall. The deliverable is a Drilling Work Plan for Well R-75.	9/30/2025	Letter Report Documenting Completion of Regional Aquifer Monitoring Well R-75 and Collection of First Samples	Well R-75 is a characterization and monitoring well for the lateral extent of RDX contamination in the region to the northeast of Technical Area 16. The deliverable is a letter to NMED documenting completion of the well and collection of the first samples.	9/30/2026 ^a
RDX Remedy - not started	RDX Remedy										
Supplemental Investigation Reports - in progress	Supplemental Investigation Reports		Campaign will be complete after NMED issues Certificates of Completion for the 146 142 SWMUs/AOCs that DOE has requested.								

^aDate is based on the New Mexico Office of the State Engineer (OSE) issuing the drilling permit within 60 calendar days after DOE submits a drilling permit application.

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TA-21 D&D and Cleanup - in progress	TA-21 D&D and Cleanup - DP Site Aggregate Area										
	Known Cleanup Sites (Above SSLs)		Campaign Completed								
	MDAs-A & -T Remedy		MDA T Moisture Monitoring Instrumentation Installation Characterization Sampling Completion and Field Summary Report	Summary report describing the installation and instrumentation of the vadose moisture monitoring system and completion of moisture monitoring characterization sampling at MDA T.	5/21/2024	Annual Report for Material Disposal Area T Moisture Monitoring Data Collection	Annual report summarizing the moisture monitoring data collection for Material Disposal Area T.	8/30/2025			
MDAs-A & -T Remedy - in progress	MDAs-A & -T Remedy	9	Progress Report for Material Disposal Area A, at Technical Area 21 Investigation Report for Material Disposal Area A, at Technical Area 21	Progress Report summarizing the implementation and status of site investigations at Material Disposal Area A. Investigation report and the requisite risk assessment of the fieldwork completed for Material Disposal Area A.	9/30/2024	Investigation Report for Material Disposal Area A, at Technical Area 21 Corrective Measures Evaluation ("CME") Report for Material Disposal Area A, at Technical Area 21	Investigation report and the requisite risk assessment of the fieldwork completed for Material Disposal Area A. The CME Report will identify, develop, and evaluate potential corrective measures alternatives for removal, containment, and/or treatment of contamination at MDA A and will include a preferred alternative for remediation.	9/30/2025			
	MDAs-A & -T Remedy	10	Progress Report for Material Disposal Area T, at Technical Area 21 Investigation Report for Material Disposal Area T, at Technical Area 21	Progress report summarizing the implementation and status of site investigations at Material Disposal Area T. Investigation report and the requisite risk assessment of the fieldwork completed for Material Disposal Area T.	9/30/2024	Investigation Report for Material Disposal Area T, at Technical Area 21 Corrective Measures Evaluation ("CME") Report for Material Disposal Area T, at Technical Area 21	Investigation report and the requisite risk assessment of the fieldwork completed for Material Disposal Area T. The CME Report will identify, develop, and evaluate potential corrective measures alternatives for removal, containment, and/or treatment of contamination at MDA T and will include a preferred alternative for remediation.	9/30/2025			

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Southern External Boundary - in progress	Southern External Boundary - North Ancho Canyon Aggregate Area										
	Southern External Boundary - Potrillo and Fence Canyons Aggregate Area	11	Potrillo and Fence Canyons Aggregate Area Progress Report Phase II Investigation Report for Potrillo and Fence Canyons Aggregate Area	Progress report summarizing the fieldwork implementation and status of Potrillo and Fence Canyons Aggregate Area. Phase II investigation report and requisite risk assessment of the fieldwork completed for the Potrillo and Fence Canyons Aggregate Area.	9/30/2024	Phase II Investigation Report for Potrillo and Fence Canyons Aggregate Area	Phase II investigation report and requisite risk assessment of the fieldwork completed for the Potrillo and Fence Canyons Aggregate Area.	1/31/2025			
MDA-C Remedy - in progress	MDA-C Remedy		Corrective Measures Implementation Plan for Material Disposal Area C, Solid Waste Management Unit 50-009, at Technical Area 50	The implementation plan provides final remedy design for field implementation at Material Disposal Area C.	9/30/2024 (assumes completion of Statement of Basis by 9/30/2023)						
Sandia Canyon Watershed - not started	Sandia Canyon Watershed								Phase II Investigation Work Plan for Lower Sandia Canyon Aggregate Area	The investigation work plan will identify and describe the activities needed to complete the investigation of Lower Sandia Canyon Aggregate Area.	1/30/2026
Pajarito Watershed - in progress	Pajarito Watershed - Twomile Canyon Aggregate Area	12	Investigation Report for Twomile Canyon Aggregate Area	Investigation report and requisite risk assessment of the field work completed for the Twomile Canyon Aggregate Area.	6/28/2024						
	Pajarito Watershed - Threemile Canyon Aggregate Area										
	Pajarito Watershed - Starmer/Upper Pajarito Canyon Aggregate Area	13	Starmer/Upper Pajarito Canyon Aggregate Area Progress Report Investigation Report for Starmer/Upper Pajarito Canyon Aggregate Area	Progress report summarizing the fieldwork implementation and status of site investigations of Starmer/Upper Pajarito Canyon Aggregate Area. Investigation Report for this aggregate area and the requisite risk assessment.	9/30/2024	Investigation Report for Starmer/Upper Pajarito Canyon Aggregate Area	Investigation report and requisite risk assessment of the fieldwork completed for Starmer/Upper Pajarito Canyon Aggregate Area.	6/27/2025			
	Pajarito Watershed - Lower Pajarito Canyon Aggregate Area	14	Lower Pajarito Canyon Aggregate Area Progress Report	Progress report summarizing the fieldwork implementation and status of site investigations in Lower Pajarito Canyon Aggregate Area.	9/30/2024	Investigation Report for Lower Pajarito Canyon Aggregate Area	Investigation report and requisite risk assessment of the fieldwork completed for Lower Pajarito Canyon Aggregate Area.	6/30/2025-9/30/2025			

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Upper Water Watershed - not started	Upper Water Watershed - Cañon de Valle, Technical Area-15					Cañon de Valle TA-15 Aggregate Area, Technical Area 15 Progress Report	Progress report summarizing the fieldwork implementation and status of site investigations in Cañon de Valle Technical Area-15 Aggregate Area.	9/30/2025	Investigation Report for Cañon de Valle Aggregate Area, Technical Area 15	Investigation report and requisite risk assessment of the field work completed for Cañon de Valle Aggregate Area, Technical Area 15.	9/30/2026
	Upper Water Watershed - Cañon de Valle, Technical Area 16								Cañon de Valle Aggregate Area, Technical Area 16 Progress Report	Progress report summarizing the fieldwork implementation and status of site investigations in Cañon de Valle Aggregate Area, Technical Area 16.	9/30/2026
	Upper Water Watershed - S-Site	15	Phase II Investigation Work Plan for S-Site Aggregate Area, Revision 1	The investigation work plan will identify and describe the activities needed to complete the investigation of S-Site Aggregate Area.	6/30/2024	Phase II Investigation Report for S-Site Aggregate Area	Phase II investigation report and requisite risk assessment of the fieldwork completed for S-Site Aggregate Area.	9/30/2025			
MDA-AB Remedy - not started	MDA-AB Remedy					Corrective Measures Evaluation ("CME") Report for Material Disposal Area AB, at Technical Area 49	This CME report presents the remedial alternatives analysis for MDA AB.	3/31/2025	Corrective Measures Evaluation ("CME") Report for Material Disposal Area AB, at Technical Area 49.	The CME Report will identify, develop, and evaluate potential corrective measures alternatives for removal, containment, and/or treatment of contamination at MDA AB and will include a preferred alternative for remediation.	3/31/2026
MDA-H Remedy - not started	MDA-H Remedy								Corrective Measures Implementation Plan for Material Disposal Area H, Solid Waste Management Unit 54-004, at Technical Area 54.	The implementation plan provides a remedy design for field implementation at Material Disposal Area H.	12/15/2025
MDAs-G & -L Remedies - in progress	MDAs-G & -L Remedies	16	Corrective Measures Evaluation ("CME") Report for Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54, Revision 2	This CME report presents the remedial alternatives analysis for MDA L. The CME Report will identify, develop, and evaluate potential corrective measures alternatives for removal, containment, and/or treatment of contamination at MDA L and will include a preferred alternative for remediation.	3/31/2024 9/30/2024						
	MDAs-G & -L Remedies		Corrective Measures Evaluation ("CME") Report for Material Disposal Area G, at Technical Area 54, Revision 3	This CME report presents the remedial alternatives analysis for MDA G.	3/31/2024	Corrective Measures Evaluation ("CME") Report for Material Disposal Area G, at Technical Area 54, Revision 3	The CME Report will identify, develop, and evaluate potential corrective measures alternatives for removal, containment, and/or treatment of contamination at MDA G and will include a preferred alternative for remediation.	9/30/2025			
	MDAs-G & -L Remedies	17	Periodic Monitoring Report for 2023 Vapor-Sampling and Soil-Vapor Extraction (SVE) at Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54	The report summarizes vapor-phase volatile organic compound ("VOC") sampling data from the previous year's semiannual sampling conducted at MDA L, including a summary of SVE system operations.	5/30/2024	Periodic Monitoring Report for 2024 Vapor-Sampling and Soil-Vapor Extraction (SVE) at Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54	The report summarizes vapor-phase volatile organic compound (VOC) sampling data from the previous year's semiannual sampling conducted at MDA L, including a summary of SVE system operations.	5/30/2025	Periodic Monitoring Report for 2025 Vapor-Sampling and Soil-Vapor Extraction (SVE) at Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54	The report summarizes vapor-phase volatile organic compound (VOC) sampling data from the previous year's semiannual sampling conducted at MDA L, including a summary of SVE system operations.	5/29/2026
					17				18		

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