



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



December 16, 2021

EMLA-2022-BF012-02-001

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

Subject: Fiscal Year 2021 Consent Order Deliverable Accomplishments

Dear Mr. Shean:

Enclosed is a summary of the completion of draft milestones by the U.S. Department of Energy (DOE) Environmental Management Los Alamos Field Office (EM-LA) for fiscal year (FY) 2021 pursuant to the 2016 Compliance Order on Consent (Consent Order). In addition, enclosed is a summary of other Consent Order deliverables submitted to the New Mexico Environment Department (NMED) in FY 2021.

Enclosure 1 lists draft FY 2021 milestones in Appendix B of the Consent Order, including their due dates, submittal dates, and approval dates. A total of 13 out of 13 of the draft FY 2021 milestones were delivered to NMED in FY 2021. All of the draft FY 2021 milestones were submitted on or before their due dates.

In addition to the draft FY 2021 milestones, EM-LA submitted several other Consent Order deliverables required by NMED. Enclosure 2 contains a list of these deliverables and their submittal dates.

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

Sincerely,

**ARTURO
DURAN**

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ARTURO DURAN
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Arturo Q. Duran
Compliance and Permitting Manager
Environmental Management
Los Alamos Field Office

Enclosure(s):

1. Fiscal Year 2021 Draft Milestones in Appendix B of the Compliance Order on Consent
2. Fiscal Year 2021 Other Deliverables to the New Mexico Environment Department and Submittal Dates

CC (letter and enclosure[s] emailed):

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Enclosure 1
Fiscal Year 2021 Draft Milestones in Appendix B of the Compliance Order on Consent

Milestone # FY 2021	Title	Due Date	Submittal Date	Approval Date
1	Phase II Investigation Work Plan for Threemile Canyon Aggregate Area, Revision 2	3/3/2021	3/2/2021	11/29/2021
2	Semiannual Progress Report on Chromium Plume Control Interim Measure Performance, July through December 2020	3/31/2021	3/31/2021	
3	Phase II Investigation Work Plan for Chaquehui Canyon Aggregate Area	3/31/2021	3/31/2021	7/26/2021
4	Supplemental Investigation Report for Lower Sandia Canyon Aggregate Area, Revision 1	5/28/2021	5/27/2021	8/5/2021
5	Periodic Monitoring Report for 2020 Vapor-Sampling Activities at Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54	5/28/2021	5/27/2021	
6	Interim Facility-Wide Groundwater Monitoring Plan for the 2022 Monitoring Year, October 2021–September 2022	6/30/2021	5/27/2021	10/18/2021
7	Corrective Measures Evaluation Report for Material Disposal Area C, Solid Waste Management Unit 50-009 at Technical Area 50, Revision 1	6/30/2021	6/30/2021	
8	Assessment Report for the Evaluation of Conditions in the Regional Aquifer Around Well R-70	6/30/2021	6/30/2021	
9	Phase II Investigation Report for Chaquehui Canyon Aggregate Area	8/31/2021	8/31/2021	
10	Phase II Investigation Work Plan for Potrillo and Fence Canyons Aggregate Area	9/30/2021	9/21/2021	
11	Investigation Report for South Ancho Canyon Aggregate Area	9/30/2021	9/29/2021	
12	Investigation Report for Lower Water/Indio Canyons Aggregate Area	9/30/2021	9/30/2021	
13	Semiannual Progress Report on Chromium Plume Control Interim Measure Performance, January through June 2021	9/30/2021	9/30/2021	

Enclosure 2
Fiscal Year 2021 Other Deliverables to the New Mexico Environment Department and Submittal Dates

Item Number	Title	Submittal Date
1	Response to New Mexico Environment Department's Draft Comments on the 2020 Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed, May 2020	10/6/2020
2	Response to the New Mexico Environment Department's Draft Comments on the 2020 Annual Periodic Monitoring Report for the Technical Area 16 260 Monitoring Group, Pajarito Canyon and Water Canyon/Cañon de Valle Watersheds, August 2020	10/13/2020
3	Technical Approach for Calculating Recreational Soil Screening Levels for Chemicals, Revision 6	10/19/2020
4	2020 Annual Periodic Monitoring Report for the Chromium Investigation Monitoring Group, Mortandad Canyon and Sandia Canyon Watersheds, Revision 1	10/26/2020
5	Monthly Notification of Groundwater Data Reviewed in October 2020	10/30/2020
6	Response to Approval of Certificate of Completion with Controls for One Solid Waste Management Unit [06-003(c)] in the Twomile Canyon Aggregate Area	11/3/2020
7	2020 Annual Periodic Monitoring Report for the Technical Area 54 Monitoring Group, Pajarito Canyon and Mortandad Canyon Watersheds, Revision 1	11/4/2020
8	Request for Certificates of Completion for 16 Solid Waste Management Units and 9 Areas of Concern in the Upper Mortandad Canyon Aggregate Area	11/5/2020
9	Response to the Notice of Disapproval, Periodic Monitoring Report for 2019 Vapor-Sampling Activities at Material Disposal Area C, Solid Waste Management Unit 50-009, at Technical Area 50, August 2020	11/10/2020
10	Monitoring Year 2019 Annual Periodic Monitoring Report for the Technical Area 21 Monitoring Group, Los Alamos Canyon Watershed, Revision 1	11/19/2020
11	Response to the Notice of Disapproval, Periodic Monitoring Report for 2019 Vapor-Sampling Activities at Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54, May 2020	11/19/2020
12	ECORISK Database, Release 4.2	11/19/2020
13	Completion Report for Regional Aquifer Well R-70, Revision 1, and the Response to the New Mexico Environment Department's Draft Comments on the Completion Report for Regional Aquifer Well R-70	11/24/2020
14	Quarterly Status Report for Westbay Well R-25 Plugging and Abandonment Activities, August 15, 2020–November 12, 2020	11/25/2020
15	Monthly Notification of Groundwater Data Reviewed in November 2020	11/25/2020
16	2020 Annual Progress Report for the Corrective Measures Evaluation for Royal Demolition Explosive in Deep Groundwater	11/30/2020
17	2020 Annual Periodic Monitoring Reports for the General Surveillance Monitoring Group and for Base Flow Sampling	11/30/2020
18	Submittal of the Revised Response to the Notice of Disapproval, Periodic Monitoring Report for 2019 Vapor-Sampling Activities at Material Disposal Area C, Solid Waste Management Unit 50-009, at Technical Area 50, August 2020, Los Alamos National Laboratory, EPA ID #NM0890010515, LANL-20-048, Dated September 9, 2020	12/2/2020

Enclosure 2
Fiscal Year 2021 Other Deliverables to the New Mexico Environment Department and Submittal Dates

Item Number	Title	Submittal Date
19	Request for Certificates of Completion for Three Solid Waste Management Units and Four Areas of Concern in the Potrillo and Fence Canyons Aggregate Area	12/2/2020
20	2020 Annual Periodic Monitoring Report for the Technical Area 16 260 Monitoring Group, Pajarito Canyon and Water Canyon/ Cañon de Valle Watersheds, Revision 1	12/3/2020
21	Biennial Inspection and Maintenance Report on Erosion Controls in Drainages to the 90s Line Pond at Technical Area 16	12/10/2020
22	Biennial Inspection and Maintenance Report on Erosion Controls Associated with Solid Waste Management Unit 16-003(o) within Fishladder Canyon	12/10/2020
23	Monthly Notification of Groundwater Data Reviewed in December 2020	12/17/2020
24	Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site	12/21/2020
25	December 2020 Monthly Status Update on R-25 Westbay Well Plugging and Abandonment.	12/22/2020
26	2020 Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed, Revision 1	12/30/2020
27	Geophysical Letter Report, Revised Pothole Location Maps, and Independent Review Comments for the Middle DP Road Site Solid Waste Management Unit Assessment Work Plan	1/14/2021
28	Request for Certificates of Completion for 6 Solid Waste Management Units and 11 Areas of Concern in the Cañon de Valle Aggregate Area, Technical Area 14	1/28/2021
29	January 2021 Monthly Status Update on R-25 Westbay Well Plugging and Abandonment	1/28/2021
30	Monthly Notification of Groundwater Data Reviewed in January 2021	1/28/2021
31	Periodic Monitoring Report for 2019 Vapor-Sampling Activities at Material Disposal Area C, Solid Waste Management Unit 50-009, at Technical Area 50, Revision 1	2/12/2021
32	Response to Draft New Mexico Environment Department Comments on the Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site, Dated January 29, 2021	2/23/2021
33	2021 Annual Periodic Monitoring Report for the Technical Area 21 Monitoring Group, Los Alamos Canyon Watershed	2/25/2021
34	Quarterly Status Report for Westbay Well R-25 Plugging and Abandonment Activities, November 13, 2020–February 9, 2021	2/26/2021
35	U.S. Department of Energy Response to the New Mexico Environment Department Hazardous Waste Bureau Draft Comments on the Semiannual Progress Report on Chromium Plume Control Interim Measure Performance, January through June 2020, Dated December 31, 2020	2/26/2021
36	Monthly Notification of Groundwater Data Reviewed in February 2021	2/26/2021
37	The U.S. Department of Energy's Responses to the New Mexico Environment Department Hazardous Waste Bureau's Draft Comments, November 2020, on the Investigation Report for Royal Demolition Explosive in Deep Groundwater, August 2019	3/1/2021

Enclosure 2
Fiscal Year 2021 Other Deliverables to the New Mexico Environment Department and Submittal Dates

Item Number	Title	Submittal Date
38	U.S. Department of Energy's Responses to the New Mexico Environment Department's Draft Comments on "Fate and Transport Modeling and Risk Assessment Report for RDX Contamination in Deep Groundwater, May 2020," LANL-20-031, dated November 25, 2020	3/1/2021
39	Phase II Investigation Work Plan for Threemile Canyon Aggregate Area, Revision 2	3/2/2021
40	2020 Sandia Wetland Performance Report	3/3/2021
41	Phase II Investigation Report for Upper Los Alamos Canyon Aggregate Area, Revision 1	3/5/2021
42	Request for Certificates of Completion for Five Solid Waste Management Units in the Cañon de Valle Aggregate Area and One Solid Waste Management Unit and One Area of Concern in the S-Site Aggregate Area	3/9/2021
43	Response to Draft New Mexico Environment Department Comments on the Supplemental Investigation Report for Lower Sandia Canyon Aggregate Area, Dated January 27, 2021	3/16/2021
44	Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site, Revision 1	3/25/2021
45	Monthly Notification of Groundwater Data Reviewed in March 2021	3/25/2021
46	March 2021 Monthly Status Update on R-25 Westbay Well Plugging and Abandonment	3/26/2021
47	Response to Draft New Mexico Environment Department's Comments on the 2020 Annual Long-Term Monitoring and Maintenance Report for Corrective Measures Implementation at Former 260 Outfall Area September 2020 LANL-20-064 Dated February 10, 2021	3/26/2021
48	Periodic Monitoring Report for 2019 Vapor-Sampling Activities at Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54, Revision 1	3/31/2021
49	2021 Monitoring Plan for Los Alamos/Pueblo Watershed Sediment Transport Mitigation Project	4/1/2021
50	2020 Monitoring Report for Los Alamos/Pueblo Watershed Sediment Transport Mitigation Project	4/8/2021
51	April 2021 Monthly Status Update on R-25 Westbay Well Plugging and Abandonment	4/28/2021
52	Request for Certificates of Completion for 34 Solid Waste Management Units and 5 Areas of Concern in the Upper Cañada del Buey Aggregate Area	4/28/2021
53	Monthly Notification of Groundwater Data Reviewed in April 2021	4/30/2021
54	2021 Annual Periodic Monitoring Reports for the Chromium Investigation, Technical Area 54, and Material Disposal Area C Monitoring Groups	5/27/2021
55	Monthly Notification of Groundwater Data Reviewed in May 2021	5/27/2021
56	Quarterly Status Report for Westbay Well R-25 Plugging and Abandonment Activities, February 10, 2021–May 6, 2021	5/27/2021
57	Response to New Mexico Environment Department Letter, Well Rehabilitation Work Plan Requirement, Regional Aquifer Wells R-28, R-42, and CrEX-3	5/28/2021

Enclosure 2
Fiscal Year 2021 Other Deliverables to the New Mexico Environment Department and Submittal Dates

Item Number	Title	Submittal Date
58	Response to Amended Approval Letter for Drilling Work Plan for Chromium Groundwater Project Regional Aquifer Monitoring Well R-71 and Amended Approval Letter for Drilling Work Plan for Chromium Groundwater Project Regional Aquifer Monitoring Well R-72	6/4/2021
59	N3B/DOE Response on the NMED draft comments on the 2021 Monitoring Plan for Los Alamos/Pueblo Watershed Sediment Transport Mitigation Project (2021 Plan), March 2021 and the 2020 Monitoring Report for Los Alamos/Pueblo Watershed Sediment Transport Mitigation Project, April 2021 (2020 Report)	6/11/2021
60	June 2021 Monthly Status Update on R-25 Westbay Well Plugging and Abandonment	6/17/2021
61	Response to New Mexico Environment Department Draft Comments for Investigation Report for Chaquehui Canyon Aggregate Area (September 2020), Dated May 3, 2021	6/17/2021
62	Response to Draft New Mexico Environment Department Comments on the Phase II Investigation Work Plan for Threemile Canyon Aggregate Area, Revision 2, Dated April 29, 2021	6/17/2021
63	Monthly Notification of Groundwater Data Reviewed in June 2021	6/25/2021
64	Request for Certificates of Completion for Eleven Solid Waste Management Units and Three Areas of Concern in the Upper Los Alamos Canyon Aggregate Area	6/25/2021
65	Response to NMED Draft Comments for Phase II Investigation Work Plan for Chaquehui Canyon Aggregate Area (March 2021), HWB-LANL-21-021, Dated June 3, 2021	7/13/2021
66	Response to July 9, 2021 Notice of Disapproval of Semiannual Progress Report on Chromium Plume Control Interim Measure Performance, January through June 2020	7/17/2021
67	Response to New Mexico Environment Department Notice of Disapproval, Completion Report for Regional Aquifer Well R-70, Revision 1, and the Response to New Mexico Environment Department's Draft Comments on the Completion Report for Regional Aquifer Well R-70	7/23/2021
68	Monthly Notification of Groundwater Data Reviewed in July 2021	7/28/2021
69	Periodic Monitoring Report for 2020 Vapor-Sampling Activities at Material Disposal Area C, Solid Waste Management Unit 50-009, at Technical Area 50	7/28/2021
70	July 2021 Monthly Status Update on R-25 Westbay Well Plugging and Abandonment	7/28/2021
71	2020–2021 Annual Long-Term Monitoring Status Report (July 2020 through June 2021) for the Los Alamos County Airport Landfill Cover System Replacement, Solid Waste Management Units 73-001(a,d) in Technical Area 73	7/30/2021
72	Periodic Monitoring Report for 2019 Vapor-Sampling Activities at Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54, Revision 2, and the Response to the Comments on the Periodic Monitoring Report for 2019 Vapor-Sampling Activities at Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54, Revision 1	7/30/2021
73	Monthly Notification of Groundwater Data Reviewed in August 2021	8/26/2021
74	2021 Annual Periodic Monitoring Reports for the Technical Area 16 260 and Material Disposal Area AB Monitoring Groups	8/27/2021

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Item Number	Title	Submittal Date
75	Aquifer Testing Guidance for the Los Alamos National Laboratory Site and Aquifer Testing Plans for R-71 and R-72	8/27/2021
76	Quarterly Status Report for Westbay Well R-25 Plugging and Abandonment Activities, May 7, 2021–August 6, 2021	8/27/2021
77	Monthly Notification of Groundwater Data Reviewed in September 2021	9/24/2021
78	Interim Facility-Wide Groundwater Monitoring Plan for the 2022 Monitoring Year, October 2021–September 2022, Revision 1	9/24/2021
79	September 2021 Monthly Status Update on R-25 Westbay Well Plugging and Abandonment	9/24/2021
80	2021 Annual Long-Term Monitoring and Maintenance Report for the Corrective Measures Implementation at Former 260 Outfall Area	9/27/2021
81	Notification to the New Mexico Environment Department of Completion of Drilling Activities at Regional Aquifer Well R-72	9/27/2021