



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

EMLA-2021-0184-02-001

March 26, 2021

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

Subject: Fiscal Year 2020 Consent Order Deliverable Accomplishments

Dear Mr. Pierard:

Enclosed is a summary of the completion of milestones by the U.S. Department of Energy (DOE) Environmental Management Los Alamos Field Office (EM-LA) for fiscal year (FY) 2020 required under 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 2020.

Enclosure 1 lists FY 2020 milestones in Appendix B of the Consent Order, including their due, submittal, and approval dates. A total of 16 out of 17 Appendix B milestones were delivered to NMED in FY 2020. Most of the Appendix B milestones were submitted on or before their due dates. NMED granted an extension to a milestone due date for the "Westbay Well Plugging and Abandonment Completion Report for R-25" (FY 2020 milestone #6). Regional well R-25 presented significant technical challenges and could not be completed. NMED determined adequate justification for the delay was provided and granted the extension. Because DOE was not able to provide a completion date, NMED requested the submittal of monthly status updates, starting in March 2020, and quarterly status reports, starting in May 2020. DOE submitted the monthly and quarterly status reports as requested.

In addition to Appendix B 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 (505) 257-7907 (arturo.duran@em.doe.gov).

Sincerely,

**Arturo Q.
Duran**

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

Digitally signed by Arturo
Q. Duran
Date: 2021.03.22
06:24:51 -06'00'

Enclosure(s):

1. Fiscal Year 2020 Milestones in Appendix B of the Compliance Order on Consent
2. Fiscal Year 2020 Other Deliverables to NMED and Submittal Dates

CC (letter and enclosure[s] emailed):

Laurie King, EPA Region 6, Dallas, TX
Raymond Martinez, San Ildefonso Pueblo, NM
Dino Chavarria, Santa Clara Pueblo, NM
Jacob Pecos, Pueblo of Cochiti, NM
Clarice Madalena, Pueblo of Jemez, NM
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Pamela T. Maestas

From: Martinez, Cynthia, NMENV <cynthia.martinez1@state.nm.us>
Sent: Tuesday, March 30, 2021 7:42 AM
To: Pamela T. Maestas
Subject: RE: Submittal to NMED on 3/26/2021 of FY20 Consent Order Deliverable Accomplishments

Received.
Thank You.

From: Pamela T. Maestas <pamela.maestas@em-la.doe.gov>
Sent: Friday, March 26, 2021 9:54 AM
To: Pierard, Kevin, NMENV <Kevin.Pierard@state.nm.us>
Cc: Dhawan, Neelam, NMENV <neelam.dhawan@state.nm.us>; Briley, Siona, NMENV <Siona.Briley@state.nm.us>; Catechis, Chris, NMENV <Chris.Catechis@state.nm.us>; Krambis, Christopher, NMENV <Christopher.Krambis@state.nm.us>; Schatz, Mitchell, NMENV <Mitchell.Schatz@state.nm.us>; Martinez, Cynthia, NMENV <cynthia.martinez1@state.nm.us>; Emily M. Day <Emily.Day@em-la.doe.gov>; Regulatory Documentation <RegDocs@EM-LA.DOE.GOV>; Kent Rich <kent.rich@em-la.doe.gov>; cheryl.rodriguez@em.doe.gov
Subject: [EXT] Submittal to NMED on 3/26/2021 of FY20 Consent Order Deliverable Accomplishments

Mr. Pierard,

Attached for submittal is a pdf of the following:

- Fiscal Year 2020 Consent Order Deliverable Accomplishments (EMLA-2021-0184-02-001, letter and enclosures)

Please acknowledge receipt of this submittal by responding to this email.

Let me know if you have any questions.

Thank you.

Pamela T. Maestas

Regulatory Documentation Manager

Newport News Nuclear BWXT-Los Alamos, LLC

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Los Alamos, NM 87544

Enclosure 1
Fiscal Year 2020 Milestones in Appendix B of the Compliance Order on Consent

Milestone # FY 2020	Title	Due Date	Submittal Date	Approval Date
1	Assessment Work Plan for the Evaluation of Conditions in the Regional Aquifer Around Well R-70	12/17/2019	12/16/2019	4/14/2020
2	Westbay Well Reconfiguration Completion Report for R-31	2/17/2020	2/13/2020	4/27/2020
3	Semiannual Progress Report on Chromium Plume Control Interim Measure Performance, July through December 2019	3/31/2020	3/19/2020	5/6/2020
4	Drilling Work Plan for Regional Well R-72	3/31/2020	3/16/2020	3/24/2020
5	Drilling Work Plan for Chromium Groundwater Project Regional Aquifer Monitoring Well R-71	3/31/2020	2/19/2020	3/26/2020
6	Westbay Well Plugging and Abandonment Completion Report for R-25	a		
7	Fate and Transport Modeling and Risk Assessment Report for RDX Contamination in Deep Groundwater	5/29/2020	5/29/2020	
8	Periodic Monitoring Report for 2019 Vapor-Sampling Activities at Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54	5/29/2020	5/22/2020	
9	Eighth Report on Pilot-Scale Amendments Testing for Chromium in Groundwater Beneath Mortandad Canyon, October 2019 to March 2020	6/25/2020	6/25/2020	7/29/2020
10	Interim Facility-Wide Groundwater Monitoring Plan for the 2021 Monitoring Year, October 2020–September 2021, Revision 1	6/30/2020	6/1/2020	9/29/2020
11	Supplemental Investigation Report for Upper Mortandad Canyon Aggregate Area, Revision 1	6/30/2020	6/30/2020	9/9/2020
12	Semiannual Progress Report on Chromium Plume Control Interim Measure Performance, January through June 2020	9/30/2020	9/29/2020	
13	Supplemental Investigation Report for Upper Cañada del Buey Aggregate Area, Revision 1	9/30/2020	9/17/2020	3/4/2021
14	Delta Prime Site Aggregate Area Progress Report for Fiscal Year 2020	9/30/2020	9/29/2020	
15	Investigation Report for Chaquehui Canyon Aggregate Area	9/30/2020	9/30/2020	
16	South Ancho Canyon Aggregate Area Progress Report	9/30/2020	9/30/2020	
17	Lower Water/Indio Canyons Aggregate Area Progress Report	9/30/2020	9/30/2020	

^a NMED granted an extension for milestone #6 on March 18, 2020.

Enclosure 2
Fiscal Year 2020 Other Deliverables to NMED and Submittal Dates

Item Number	Title	Submittal Date
1	Westbay Wells Evaluation Reconfiguration Completion Report for R-5, R-7, R-8, R-9i, R-19	10/16/2019
2	Field Completion Report for Aggregate Area Known Cleanup Sites Campaign: Solid Waste Management Units 39-002(a), 46-004(q), 15-008(b), 15-007(c)	11/14/2019
3	Phase II Investigation Work Plan for Delta Prime Site Aggregate Area Sites at Delta Prime East and Delta Prime West	10/23/2019
4	Request for Certificates of Completion for Two Solid Waste Management Units in the Delta Prime Site Aggregate Area at Delta Prime East	10/24/2019
5	Monthly Notification of Groundwater Data Reviewed in October 2019	10/24/2019
6	Completion Report for Regional Aquifer Well R-69, Revision 1	10/31/2019
7	Response to Disapproval, Request for Certificates of Completion for SWMUs in the Delta Prime Site Aggregate Area	11/22/2019
8	Monthly Notification of Groundwater Data Reviewed in November 2019	11/22/2019
9	2019 Annual Progress Report for the Corrective Measures Evaluation for Royal Demolition Explosive in Deep Groundwater	11/22/2019
10	Annual Periodic Monitoring Report for the General Surveillance Monitoring Group: Los Alamos/Pueblo Canyons, Mortandad/Sandia Canyons, Water Canyon/Cañon de Valle, White Rock Canyon and Rio Grande, and Pajarito Canyon Watersheds	11/22/2019
11	Revised Response to New Mexico Environment Department Draft Comments on the Annual Periodic Monitoring Report for the Technical Area 54 Monitoring Group, Pajarito Canyon and Mortandad Canyon Watersheds, Dated May 2019	11/27/2019
12	Submittal of November 2019 Replacement Pages for the Interim Facility-Wide Groundwater Monitoring Plan for the 2020 Monitoring Year, October 2019–September 2020	11/27/2019
13	Annual Periodic Monitoring Report for the Technical Area 54 Monitoring Group, Pajarito Canyon and Mortandad Canyon Watersheds, Revision 1	11/27/2019
14	Supplemental Work Plan for Pilot-Scale Amendments Testing for Chromium in Groundwater beneath Mortandad Canyon, Revision 1	12/4/2019
15	Response to New Mexico Environment Department Comments on the Annual Periodic Monitoring Report for the Material Disposal Area AB Monitoring Group, Ancho Canyon and Water Canyon, Dated August 2019	12/11/2019
16	Monthly Notification of Groundwater Data Reviewed in December 2019	12/16/2019
17	2019 Triennial Ordinance Survey Report Solid Waste Management Units 00-011(a, d, and e) Guaje/Barrancas/Rendija Canyons Aggregate Area	12/16/2019
18	2019 Biennial Asphalt Monitoring and Removal Report for Area of Concern C-00-041, Guaje/Barrancas/Rendija Canyons Aggregate Area	12/16/2019
19	Annual Periodic Monitoring Report for the General Surveillance Monitoring Group, Revision 1	12/16/2019
20	Completion Report for Regional Aquifer Well R-70	12/20/2019

Enclosure 2
Fiscal Year 2020 Other Deliverables to NMED and Submittal Dates

Item Number	Title	Submittal Date
21	Seventh Report on Pilot-Scale Amendments Testing for Chromium in Groundwater Beneath Mortandad Canyon, April to September 2019	12/20/2019
22	Monthly Notification of Groundwater Data Reviewed in January 2020	1/27/2020
23	Supplemental Investigation Report for Cañon de Valle Aggregate Area Technical Area 14, Revision 1	2/3/2020
24	Westbay Wells Reconfiguration Completion Report for R-5, R-7, R-8, R-9i, and R-19, Revision 1	2/12/2020
25	Request for Certificates of Completion for 31 Solid Waste Management Units and 10 Areas of Concern in the S-Site Aggregate Area	2/19/2020
26	Request for Certificate of Completion for One Solid Waste Management Unit in the Twomile Canyon Aggregate Area	2/19/2020
27	Monitoring Year 2019 Annual Periodic Monitoring Report for the Technical Area 21 Monitoring Group, Los Alamos Canyon Watershed	2/20/2020
28	Annual Periodic Monitoring Report for the Material Disposal Area AB Monitoring Group, Ancho Canyon and Water Canyon, Revision 1	2/20/2020
29	Status of Westbay Well R-25 Reconfiguration Efforts and Request for Extension of Fiscal Year 2020 Appendix B Milestone #6, Westbay Well Plugging and Abandonment Completion Report for R-25	2/24/2020
30	Monthly Notification of Groundwater Data Reviewed in February 2020	2/26/2020
31	Transmittal Letter Correction for the Submittal of the Westbay Well Reconfiguration Completion Report R-31	3/5/2020
32	Response to the February 28, 2020 New Mexico Environment Department Request for Information on the Potential Newly Discovered Solid Waste Management Unit or Area of Concern Los Alamos National Laboratory (EPA ID #NM0890010515 HWB-LANL-MISC-CO)	3/9/2020
33	Drilling Fluid Additive Use Options for Well R-25 Westbay Sampling System Removal	3/17/2020
34	2019 Sandia Wetland Performance Report	3/18/2020
35	Response to Draft New Mexico Environment Department Comments on the Phase II Investigation Report for Upper Los Alamos Canyon Aggregate Area, Dated January 30, 2020	3/19/2020
36	Monthly Notification of Groundwater Data Reviewed in March 2020	3/19/2020
37	2020 Monitoring Plan for Los Alamos/Pueblo Watershed Sediment Transport Mitigation Project	4/8/2020
38	Addendum to the Phase II Investigation Report for Middle Los Alamos Canyon Aggregate Area, Revision 1	4/10/2020
39	Response to April 07, 2020 New Mexico Environment Department letter Regarding Potential Newly Discovered SWMU or AOC Middle DP Road Site Los Alamos National Laboratory, EPA ID #NM0890010515 LANL-MISC-CO	4/16/2020
40	Response to Draft New Mexico Environment Department Comments on the Supplemental Investigation Report for Upper Mortandad Canyon Aggregate Area Dated March 19, 2020	4/17/2020
41	2020 Replacement Page for the Annual Periodic Monitoring Report for the Material Disposal Area AB Monitoring Group, Ancho Canyon and Water Canyon, Revision 1	4/17/2020
42	Monthly Notification of Groundwater Data Reviewed in April 2020	4/27/2020

Enclosure 2
Fiscal Year 2020 Other Deliverables to NMED and Submittal Dates

Item Number	Title	Submittal Date
43	Response to April 16, 2020 New Mexico Environment Department Email Impacts from Chromium Interim Measure Shutdown	4/29/2020
44	N3B response to New Mexico Environment Department Draft Comments on the Interim Facility-Wide Groundwater Monitoring Plan for the 2021 Monitoring Year October 2020-September 2021, May 2020 , June 24, 2020	5/22/2020
45	Monthly Notification of Groundwater Data Reviewed in May 2020	5/22/2020
46	Quarterly Status Report for Westbay Well R-25 Plugging and Abandonment Activities, February 28, 2020 - May 15, 2020	5/28/2020
47	2020 Annual Periodic Monitoring Report for the Technical Area 54 Monitoring Group, Pajarito Canyon and Mortandad Canyon Watersheds	5/29/2020
48	2020 Annual Periodic Monitoring Report for the Chromium Investigation Monitoring Group, Mortandad Canyon and Sandia Canyon Watersheds	5/29/2020
49	2020 Annual Periodic Monitoring Report for Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed	5/29/2020
50	Request for Extension of Assessment Report for the Evaluation of Conditions in the Regional Aquifer around Well R-70	6/4/2020
51	Monthly Notification of Groundwater Data Reviewed in June 2020	6/25/2020
52	Request for Certificates of Completion for Five Solid Waste Management Units in the Pueblo Canyon Aggregate Area	7/7/2020
53	Response to New Mexico Environment Department Draft Comments on the Supplemental Investigation Report for Upper Cañada del Buey Aggregate Area	7/8/2020
54	Response to June 17, 2020 New Mexico Environment Department Letter Regarding Potential Newly Discovered Solid Waste Management Unit or Area of Concern Middle DP Road Site Los Alamos National Laboratory	7/15/2020
55	Draft Response to NMED Draft Comments on the Interim Facility-Wide Groundwater Monitoring Plan for the 2021 Monitoring Year October 2020 - September 2021	7/15/2020
56	Response to NMED Comments on Revised Work Plan for Vadose Zone Moisture Monitoring at Material Disposal Area T at Technical Area 21 Within the Nuclear Environmental Site	7/23/2020
57	Monthly Notification of Groundwater Data Reviewed in July 2020	7/23/2020
58	2019/2020 Annual Long Term Monitoring Status Report (July 2019 Through June 2020) Los Alamos County Airport Landfill Cover System Replacement, Solid Waste Management Units 73-001(a, d) in Technical Area 73	7/30/2020
59	Second Response to New Mexico Environment Department Draft Comments on the Supplemental Investigation Report for Upper Cañada del Buey Aggregate Area	7/31/2020
60	Request for Certificate of Completion Without Controls for Solid Waste Management Unit 01-003(e)	8/5/2020
61	Periodic Monitoring Report for Vapor Sampling Activities at Material Disposal Area C Solid Waste Management Unit 50-009 at Technical Area 50	8/11/2020
62	Second Response to New Mexico Environment Department Draft Comments Phase II Investigation Report for Upper Los Alamos Canyon Aggregate Area, January 30, 2020	8/19/2020

Enclosure 2
Fiscal Year 2020 Other Deliverables to NMED and Submittal Dates

Item Number	Title	Submittal Date
63	Confirmation of Due Date for Next Submittal of the Annual Periodic Monitoring Report for the Material Disposal Area AB Monitoring Group, Ancho Canyon and Water Canyon	8/25/2020
64	August 2020 Formal Quarterly Status Report on R-25 Westbay Well Plugging and Abandonment	8/27/2020
65	Monthly Notification of Groundwater Data Reviewed in August 2020	8/28/2020
66	2020 Annual Periodic Monitoring Report for the Technical Area 16 260 Monitoring Group, Pajarito Canyon and Water Canyon/ Cañon de Valle Watersheds	8/31/2020
67	Response to the Review, Monitoring Year 2020 Annual Periodic Monitoring Report for the Technical Area 54 Monitoring Group, Pajarito Canyon and Mortandad Canyon Watersheds, May 2020, Dated August 4, 2020	9/3/2020
68	Response to the Review, Monitoring Year 2019 Annual Periodic Monitoring Report for the Technical Area 21 Monitoring Group, Los Alamos Canyon Watershed, February 2020, Dated August 4, 2020	9/3/2020
69	Response to New Mexico Environment Department Draft Comments on the 2020 Annual Periodic Monitoring Report for the Chromium Investigation Monitoring Group Mortandad Canyon and Sandia Canyon Watersheds May 2020	9/16/2020