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Site-Specific Advisory Board*

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October 21, 2021

Mr. Michael Mikolanis, Manager
Environmental Management Los Alamos Field Office
1200 Trinity, MS M984
Los Alamos, NM 87544

Dear Mr. Mikolanis,

I am pleased to enclose Recommendation 2021-02, "Clean Up Milestones, Targets and Goals Under the Consent Order" approved by the Northern New Mexico Citizens' Advisory Board during its meeting on September 22, 2021. Also enclosed, is a letter dated June 17, 2021, from Lee Bishop to the NNMCAB in response to questions from Mark Hayden, Chair of the Consent Order Committee. The letter is referenced in the body of the Recommendation.

Please contact me if you have questions regarding this recommendation. We look forward to the response from the Department of Energy.

Sincerely,

Robert Hull
Chair, NNMCAB

Enclosure: a/s

Cc w/encl:

U. S. Senator Martin Heinrich, (via e-mail)
U. S. Senator Ben Ray Lujan, (via e-mail)
U. S. Congresswoman Teresa Leger Fernandez (via e-mail)
Secretary, James C. Kenney NMED, (via e-mail)
Chris Catechis, NMED (via e-mail)
Ricardo Maestas, NMED (via e-mail)
Kelly Snyder, DFO (via e-mail)
Lee Bishop, DDFO (via e-mail)
Gil L. Vigil, Executive Director Eight Northern Indian Pueblos (via e-mail)
Menice B. Santistevan, NNMCAB Executive Director
Francesca Rodriquez, Correspondence Action Officer (via e-mail)
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NNMCAB File

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1 **NORTHERN NEW MEXICO CITIZENS’ ADVISORY BOARD**
2 **Recommendation to the Department of Energy**
3 **No. 2021-02**
4 **Clean Up Milestones, Targets and Goals under the Consent Order**
5 **Drafted by: Mark Hayden**
6

7 **Background**
8

9 This Recommendation suggests steps to use the “Los Alamos National Laboratory (LANL) Compliance
10 Order on Consent” (Consent Order) and its annual work planning process to increase public
11 understanding and support of LANL Environmental Management; advance completion of cleanup goals;
12 and promote greater public funding for cleanup. In designing these steps, the Northern New Mexico
13 Citizens’ Advisory Board (NNMCAB) believes it is consistent with the format and structure of the
14 Consent Order and with policy objectives endorsed by the Department of Energy (DOE) Headquarters
15 leadership. The Recommendation is intended to be a timely contribution to the annual Department of
16 Energy Environmental Management Los Alamos Field Office (EM-LA)/New Mexico Environmental
17 Department (NMED) Consent Order update, with supplementary information provided.

18 In June 2016, NMED and DOE approved the Consent Order setting forth a plan and a process for
19 cleaning up dangerous and contaminated areas at LANL. A principal purpose of the Consent Order is to
20 establish the basic framework and structure “for accomplishing work on a priority basis through clean-
21 up campaigns with achievable milestones and targets.” The Consent Order has two important
22 Appendices to fulfill this purpose. Appendix C, “Future Campaigns,” enumerates the 17 major projects
23 listed in current priority order that will be accomplished along the road to the comprehensive cleanup of
24 LANL in the future. Each Campaign aggregates many related areas; they represent the “strategic”
25 cleanup challenges. Appendix B, “Milestones and Targets,” charts the annual goals and deliverables for
26 each Campaign (plus two years into the future). Both Appendices are subject to annual updates.
27 Campaign priorities (Appendix C) were established in the 2016 Consent Order and have not changed.
28 Appendix B is more responsive to changing budgets, conditions, and accomplishments.

29 **Comments and Observations**
30

31 Packaging for public understanding: In the EM-LA annual report to the NNMCAB regarding cleanup
32 progress and accomplishments, the communication is often written in technical terms that are difficult
33 for the general public to understand and without an explanation of how this impacts the environment or
34 human exposure. Moreover, such references to the Electronic Public Reading Room are provided as a
35 response rather than a more thoughtful public oriented explanation that summarizes referenced
36 information and/or answers to questions.

37 For example, see June 17, 2021 EM-LA letter:

EM-LA Response:

Accomplishments made under the Consent Order, including fiscal year 2020 accomplishments,
are detailed in documents available on the Electronic Public Reading Room
(<https://eprr.lanl.gov/>). The enclosed provides EM-LA Letter EMLA-2021-0184-02-001,
Subject: *Fiscal Year 2020 Consent Order Deliverable Accomplishments*, dated March 26, 2021.

39 Ultimately, the NNMCAB requests a packet of information summarizing for the public how we are
40 moving forward to achieve our end state goals, written in high level layman’s terms, explaining the
41 long-term goals, identifying the benchmarks, and specifying progress in terms of percent complete. We
42 ask that each clean up campaign be Gantt charted in 2-, 5- and 10-year prospective goals. **Therefore the**

43 **NNMCAB recommends creating a general public presentation, written in layman’s terms and**
44 **gantt charted to illustrate progress. If Electronic Public Reading Room references are provided**
45 **as supporting material, the NNM CAB recommends including a summary of that material and**
46 **attaching links directly to the reading room materials.**

47 **The NNM CAB recommends all milestones and targets should be tied to achieving the end state for**
48 **each campaign.** Milestones and targets are included in updates, but they do not clearly outline the long
49 term clean up approach strategy. The charge from the DFO at DOE HQ is to understand what the end
50 state should look like at each site. For example, if a campaign has an overall goal of completing 4 wells,
51 the question raised is when the end state is actually achieved, how this milestone/target will contribute to
52 achieving that result, what percentage of the end state will be completed on what date, and what cost
53 was spent to date (annually and total) on the campaign as compared to the overall campaign budget.
54 Other examples include, if the EM-LA campaign includes the removal of 8 building slabs at TA-21,
55 when will completion be achieved? If the EM-LA campaign includes the removing 2-miles of industrial
56 waste lines, what portion of the campaign will be completed in FY22 and when is the overall project
57 scheduled for completion? The NNM CAB would like to tie progress to a measurable performance
58 metric (such as wells completed, linear or cubic feet of waste lines removed with an estimated X more in
59 process scheduled for removal by end of FY23, etc.). The NNM CAB understands the EM-LA argument
60 that the farther you look forward essentially the less certainty and precision can be projected. However,
61 the NNM CAB recommends that milestones should be fixed. The Consent Order establishes that targets
62 are intended to become milestones, and when looking past a 2-year window we understand the accuracy
63 of projections becomes less certain.

64 Accordingly, the NNM CAB recommends adding new categories for the three to ten-year period to make
65 projected goals for a 10-year look ahead. We can call them something other than targets and milestones,
66 perhaps "Prospective Long-Term Targets" or "Long Term Goals" to avoid confusing them with Consent
67 Order defined terms. The concept is to create more transparency for the public to actually see
68 projections beyond 2 years. The NNM CAB also reinforces its prior recommendation that all milestones
69 should be action-based and focused on achievements wherever possible rather than merely reporting
70 statistical data. In reporting to the public, the results should be in a format for general understanding
71 using charts to illustrate progress. To that end, we recommend EM-LA draft a 10-year strategic plan for
72 each campaign along with estimated costs including measurable metrics, dollars spent and a completion
73 timeline for the project in Gantt chart format¹. The strategic plan should include the level of total and
74 annualized resources needed to achieve the comprehensive end-state goal and communicate this to the
75 public in non-technical terms while explaining the impact on humans and the environment. The EM-LA
76 report will show the estimated duration for each campaign at the current and 10-year funding levels with
77 significant benchmarks along the way, ideally in Program Evaluation and Review Technique (PERT)²
78 risk-based form.

¹ A Gantt chart is a bar chart that lays out the project tasks and timelines linearly. The y-axis is made up of individual tasks and the x-axis represents time. Gantt charts are great for improving efficiencies and optimizing time management.

² A PERT chart is a flow chart or network diagram that displays project tasks in boxes and links them with arrows that outline dependencies. It is structured as a flow chart or network diagram that displays all the project tasks in separate boxes and connects them with arrows to clearly show task dependencies. Although PERT charts don't have dates along their x-axes like Gantt charts, the individual boxes that make up PERT charts identify the time needed to complete each task.

79 In contrast, by example, see the EM-LA June 17, 2021 letter report response:

EM-LA Response:

EM-LA has a baseline that is several years old. It includes campaign overviews, costs, and expected durations. EM-LA is working with N3B to maintain a baseline within their current contract period, which is a five-year period. As of May 2021, N3B is three years into their contract. They have been working with the EM Consolidated Business Center in Ohio and are in the process of revising their baseline. EM-LA expects the revised baseline to be formalized late summer or early fall 2021. The baseline will have costs and it will be risk based.

81 **The NNM CAB recommends EM-LA review Appendices B and to reformat them as recommended**
82 **above, providing supplementary information regarding additional out-years beyond the two**
83 **currently shown.**

84 **The NNM CAB recommends EM-LA create a supplementary document to complement the annual**
85 **progress report of achievement of campaign milestones listed in Appendix C, as well as**
86 **information about how EM-LA has conducted its risk prioritization, ensuring they will be**
87 **recorded and summarized in a supplementary document maintained on the N3B and NNM CAB**
88 **websites and updated annually to provide a public overview of accomplishments and strengthen**
89 **the sense of progress toward cleanup completion including gantt charts.**

90 **The NNM CAB recommends scheduling public outreach meetings and provide the projected**
91 **year’s meeting schedule at the start of the fiscal year. The NNM CAB also recommends reporting**
92 **on EM-LA communications (how many newsletters, how frequent publication dates are**
93 **scheduled, and how often the website will be updated. We intend these meetings and**
94 **communications will become public outreach targets and milestone metrics for the campaigns going**
95 **forward.**

96 **The NNM CAB recommends a re-prioritization of all campaigns on the basis of risk, as the**
97 **campaigns have not changed over time in coordination with the Risk Committee**
98 **recommendations.**

99 **The NNM CAB recommends identifying what campaigns and specific clean up actions within the**
100 **long-term goals have been or will be accelerated as a result of an increase in the FY21 annual**
101 **budget and the savings due to Covid-19 related clean up spending reductions.**

102 **NNM CAB Recommendations**

- 103
- 104 1. Creating a general public presentation, written in layman’s terms and Gantt charted to illustrate
105 progress, including fiscal reporting to show spending for each of the campaigns on a quarterly basis,
106 for expenditures to date, and budgeted total spending for each campaign. Reporting frequency is
107 recommended Quarterly to provide the NNM CAB with an opportunity to comment throughout the
108 year rather than annually. If Electronic Public Reading Room references are provided by EM-LA as
109 supporting material, the NNM CAB recommends including a summary of that material and attaching
110 links directly to the reading room materials.
 - 111 2. The NNM CAB recommends all milestones and targets should be tied to achieving the end state for
112 each campaign.
 - 113 3. The NNM CAB recommends EM-LA review Appendices B and to reformat them as recommended
114 above, providing supplementary information regarding additional out-years beyond the two currently
115 shown.
 - 116 4. The NNM CAB recommends EM-LA create a supplementary document to complement the annual
117 progress report of achievement of campaign milestones listed in Appendix C, as well as information

118 about how EM-LA has conducted its risk prioritization, ensuring they will be recorded and
119 summarized in a supplementary document maintained on the N3B and NNMCAB websites and
120 updated annually to provide a public overview of accomplishments and strengthen the sense of
121 progress toward cleanup completion including gantt charts.

- 122 5. The NNMCAB recommends scheduling public outreach meetings and provide the projected year's
123 meeting schedule at the start of the fiscal year. The NNMCAB also recommends reporting on EM-
124 LA communications (how many newsletters, how frequent publication dates are scheduled, and how
125 often the website will be updated. We intend these meetings and communications will become
126 public outreach targets and milestone metrics for the campaigns going forward.
- 127 6. The NNMCAB recommends a re-prioritization of all campaigns on the basis of risk, as the
128 campaigns have not changed over time in coordination with the Risk Committee recommendations.
- 129 7. The NNMCAB recommends identifying what campaigns and specific clean up actions within the
130 long-term goals have been or will be accelerated as a result of an increase in the FY21 annual budget
131 and the savings due to Covid-19 related clean up spending reductions.

132 **Intent**

133
134 It is the intent of the NNMCAB to promote meaningful reporting for the public, tying **all milestones**
135 **and targets to achieving the end state for each campaign, updating Appendices B & C along with**
136 **provide supplementary information regarding additional out-years beyond the two currently**
137 **shown, provide information about how EM-LA has conducted its risk prioritization, ensuring they**
138 **will be recorded and summarized in a supplementary document maintained on the N3B and**
139 **NNMCAB websites and updated annually to provide a public overview of accomplishments and**
140 **strengthen the sense of progress toward cleanup completion. To enhance public outreach, the**
141 **NNMCAB is recommending the formal scheduling of public outreach meetings and providing the**
142 **projected year's meeting schedule at the start of each fiscal year. The NNMCAB also**
143 **recommends reporting on EM-LA communications, prioritizing campaigns on the basis of risk in**
144 **coordination with the risk committee recommendations and identifying what campaigns and**
145 **specific clean up actions within the long term goals have been or will be accelerated as a result of**
146 **an increase in the FY21 annual budget and the savings due to Covid-19 related spending**
147 **reduction.** Our recommendation to EM-LA is intended to focus on longer term projections of the
148 campaign cleanup work activity as the priority and make EM-LA reporting to the public regarding
149 progress on the clean up campaigns more meaningful.

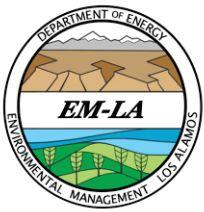
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151

152 **References**

153

- 154 1. N3B September 23, 2020 Presentation to the Northern New Mexico Citizens' Advisory Board 2016
155 Compliance Order on Consent –Appendix B Milestones (proposed)
- 156 2. M. Lee Bishop EM-LA June 17, 2021 letter to Robert Hull and Mark Hayden in response to M.
157 Hayden April 13, 2021 email requests (see attached Exhibits: 6.17.21 EM-LA letter and Hayden
158 4.13.21 email to EM-LA).



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

EMLA-2021-0269-02-001

Date: June 17, 2021

Mr. Robert Hull, Chair
Mr. Mark Hayden, Consent Order Committee Chair
Northern New Mexico Citizens' Advisory Board
94 Cities of Gold Road
Santa Fe, New Mexico, 87506

Subject: Department of Energy (DOE) Environmental Management Los Alamos Field Office (EM-LA) Response to Requests from the Northern New Mexico Citizens' Advisory Board (NNMCAB)

Reference: M. Hayden Email, Subject: *CAB Agenda Item (Request list to DOE)*, Dated: April 13, 2021

Dear Mr. Hull and Mr. Hayden:

The following provides written response to your requests in the email correspondence referenced above. These responses are consistent with verbal responses provided at the April 14, 2021, Combined Committee Meeting.

Requests Nos. 1–3:

“EM-LA’s 10-year strategic plan with estimated costs, including milestones, goals, and timelines.”

“EM-LA to provide a supplement to the 10-year strategic cleanup plan that includes the projected level of total and annualized resources needed to achieve all comprehensive goals along with a plan to communicate this information to the public.”

“EM-LA to show the estimated duration of the various Campaigns at the current and 10-year funding levels with significant benchmarks along the way—ideally in PERT (Program Evaluation and Review Technique) form.”

EM-LA Response:

EM-LA has a baseline that is several years old. It includes campaign overviews, costs, and expected durations. EM-LA is working with N3B to maintain a baseline within their current contract period, which is a five-year period. As of May 2021, N3B is three years into their contract. They have been working with the EM Consolidated Business Center in Ohio and are in the process of revising their baseline. EM-LA expects the revised baseline to be formalized late summer or early fall 2021. The baseline will have costs and it will be risk based.

Request No. 4:

“EM-LA to reformat Appendices B and C along the lines of (Request No. 2) above and provide supplementary information.”

EM-LA Response:

Current litigation would need to be resolved before any possible changes can be made to the Consent Order.

Request No. 5:

“EM-LA to submit a supplementary document complementing the annual progress report of achievement of campaign milestones listed in Appendix C, as well as information about how EM-LA has conducted its risk prioritization, while ensuring they will be recorded and summarized in a supplementary document that would be maintained on the N3B and NNM CAB’s websites and updated annually to provide a public overview of accomplishments and strengthen the sense of overall progress toward all cleanup completion.”

EM-LA Response:

Accomplishments made under the Consent Order, including fiscal year 2020 accomplishments, are detailed in documents available on the Electronic Public Reading Room (<https://epr.lanl.gov/>). The enclosed provides EM-LA Letter EMLA-2021-0184-02-001, Subject: *Fiscal Year 2020 Consent Order Deliverable Accomplishments*, dated March 26, 2021.

Request No. 6:

“EM-LA to consider how to accelerate clean-up actions to meet stipulated long-term campaign goals - Expedite hazardous/radioactive waste cleanup in terms of long-term timelines at all material disposal areas, SWMUs, AOCs, etc.”

EM-LA Response:

EM-LA’s cleanup schedule is dictated by its budget; EM-LA adjusts the cleanup activities annually based on current funding levels.

Request No. 7:

“EM-LA to develop a general plan for improving the public transparency of its risk assessments, project management, and cost-planning efforts.”

EM-LA Response:

Stakeholder engagement is a high priority for both EM-LA and N3B. The Technical Working Group is a key part of that effort and has been successful since its formation in early 2020. Technical Working Group meetings are held monthly. On June 24, 2021, EM-LA and N3B will resume the Environmental Management Cleanup Forum (EMCF), during which members of the public will be able to directly engage EM-LA and N3B on cleanup issues. EMCF meetings will be held quarterly going forward. Public meetings on the Resource Conservation and Recovery Act permit are also held routinely. Thoughts from the NNM CAB on how EM-LA might accomplish this recommendation are certainly welcome.

If you have any questions, please contact me at Lee.Bishop@em.doe.gov or (505) 257-7902.

Sincerely,

M Lee Bishop

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Bishop
Date: 2021.06.17 13:43:55
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M. Lee Bishop
NNMCAB Deputy Designated Federal
Officer Environmental Management
Los Alamos Field Office

Enclosure: EM-LA Letter, EMLA-2021-0184-02-001, Subject: *Fiscal Year 2020 Consent Order Deliverable Accomplishments*, Dated March 26, 2021

cc:

NNMCAB Members

EM-LA

Bishop, M. Lee
Horak, Steven
Maestas, Bridget
Santistevan, Menice



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
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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

From: [Hayden, Mark, GSD](#)
To: [Bishop, M. Lee](#)
Cc: [Santistevan, Menice S. \(CONTR\)](#); [Bob Hull](#); [Beth Beloff](#)
Subject: CAB Agenda item (Request list to DOE)

Good afternoon Lee,

Please see our DOE request list below. While we are aware of the NMED and Nuclear Watch lawsuits along with the potential impact these actions may have on DOE's ability to respond in full, we are hopeful there are at least some responses that can be communicated by DOE to the CAB. We are asking whether we can make our formal requests for responses on Wednesday under the agenda item "Old Business" as these requests are several years old. We understand we won't have time to fully discuss them on Wednesday due to the lengthy set of presentations we already have lined up. Our objective is to keep our list of requests on DOE's radar and to keep pushing for long overdue responses.

While our May meeting agenda is already published, if you are able to discuss our requests at least in part, we can add them on the agenda for our June Combined Committee meeting or the July full board meeting.

- For Wednesday's meeting, we recommend asking EM-LA to provide us a firm date (or timeline) for responding and presenting details regarding the CAB's requests as outlined below (pending now for approximately 3 years).
- For our June or July meeting, we request actual answers to our requests as an agenda item in writing followed by a presentation.

Pending EM-LA Requests from the CAB:

1. EM-LA's 10 year strategic plan with estimated costs including milestones, goals and timelines.
2. EM-LA to provide a supplement to the 10-year strategic cleanup plan that includes the projected level of total and annualized resources needed to achieve all comprehensive goals along with a plan to communicate this information to the public.
3. EM-LA to show the estimated duration of the various Campaigns at the current and 10-year funding levels with significant benchmarks along the way—ideally in PERT form.
4. EM-LA to reformat Appendices B and C along the lines of 2 above and provide supplementary information.
5. EM-LA to submit a supplementary document complementing the annual progress report of achievement of Campaign milestones listed in Appendix C, as well as information about how EM-LA has conducted its risk prioritization, while ensuring they will be recorded and summarized in a supplementary document that would be maintained on the N3B and NNM CAB's websites and updated annually to provide a public overview of accomplishments and strengthen the sense of overall progress toward all cleanup completion.
6. EM-LA to consider how to accelerate Clean-up actions to meet Stipulated

Long-term Campaign Goals - Expedite hazardous/radioactive waste cleanup in terms of long-term timelines at all material disposal areas, SWMUs, AOCs, etc.

7. EM-LA to develop a general plan for improving the public transparency of its risk assessments, project management, and cost planning efforts.

Thanks, Mark

Mark R. Hayden

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