



Environmental Programs

P.O. Box 1663, MS M991
Los Alamos, New Mexico 87544
(505) 606-2337/FAX (505) 665-1812



National Nuclear Security Administration

Los Alamos Site Office, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
(505) 667-4255/FAX (505) 606-2132

Date: **AUG 09 2010**

Refer To: **EP-1010215**



James Bearzi, Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Request for Review and Approval of the Draft Outline for the Material Disposal Area B Investigation/Remediation Report

Dear Mr. Bearzi:

The Investigation/Remediation Work Plan for Material Disposal Area B, Solid Waste Management Unit 21-015, at Technical Area 21, Revision 1, which was approved with modifications by the New Mexico Environment Department (NMED) on January 31, 2007, describes the methodology that is being used to excavate the legacy waste buried in the historical disposal trenches at Material Disposal Area (MDA) B. In order to facilitate the preparation of a technically and administratively complete investigation report at the conclusion of remedial activities at MDA B, the Los Alamos National Security L.L.C. (LANS) and the United States Department of Energy (U.S. DOE) (collectively, the Permittees) are submitting this draft outline for the MDA B investigation/remediation report for your review and approval.

If you have any questions, please contact Andy Baumer at (505) 665-0343 (andybaumer@lanl.gov) or Arturo Duran at (505) 665-7772 (aduran@doeal.gov).

Sincerely,

Bruce Schappell, Executive Director
Environmental Programs – Recovery Act Projects
Los Alamos National Laboratory

Sincerely,

Everett Trollinger, Federal Project Director
Environmental Projects – ARRA
Los Alamos Site Office

BS/ET/BC:sm

Attachment: Draft Outline for the Material Disposal Area B Investigation/Remediation Report

Cy: (w/att.)

Laurie King, EPA Region 6, Dallas, TX
Steve Yanicak, NMED-DOE-OB, MS M894
Auturo Duran, DOE-LASO, MS A316
Mitch Goldberg, EP-ARRA Project, MS C348
Bill Criswell, EP-ARRA Project, MS C348
Kristine Smeltz, EP-BPS, MS M992
RPF, MS M707

Cy: (w/o att.)

Tom Skibitski, NMED-OB, Santa Fe, NM
Annette Russell, DOE-LASO (date-stamped letter emailed)
Andy Baumer, EP-ARRA Project, MS C348
Michael J. Graham, ADEP, MS M991

CONTENTS

1.0	INTRODUCTION
1.1	General site information
1.2	Site background
1.3	Investigation overview
1.3.1	Investigation activities
1.3.2	Remediation activities
2.0	SCOPE AND OBJECTIVES OF ACTIVITIES.....
2.1	Geodetic surveys
2.2	Radiological surveys
2.3	Direct-push technology sampling.....
2.3.1	Analytical results
2.3.2	Trench delineation
2.4	Surface sampling
2.5	Overburden removal and site grading.....
2.6	Excavation.....
2.6.1	Excavation methodology.....
2.6.2	Field monitoring
2.6.3	Sample collection.....
2.6.4	Waste packaging
2.7	Air sampling
2.8	Soil borings
2.9	Deviations from the approved work plan.....
3.0	FIELD INVESTIGATION RESULTS.....
3.1	Surface conditions.....
3.2	Excavation investigations.....
3.2.1	Trench 1.....
3.2.2	Trench 2.....
3.2.3	Trench3.....
3.2.4	Trench 4.....
3.2.5	Trench 6.....
3.2.6	Trench 7.....
3.2.7	Trench 8.....
3.3	Borehole investigations
4.0	REGULATORY GOALS
4.1	Current & future land uses
4.2	Human health screening levels.....
5.0	DATA REVIEW PROCESS
5.1	Overview of Data.....
5.2	COPC identification.....
6.0	SAMPLING RESULTS
6.1	Results of field screening of samples
6.1.1	Field screening for radionuclides
6.1.2	Field screening for organics.....

6.2	Results of field laboratory analysis of samples
6.3	Results of laboratory analytical results
6.3.1	Laboratory results for radionuclides
6.3.2	Laboratory results for organics
6.3.3	Laboratory results for inorganics
6.4	Spatial distribution of COPCs
7.0	CONCLUSIONS
7.1	Summary of remediation activities
7.2	Summary of nature and extent of COPCs
7.3	Evaluation and conclusions regarding achievement of cleanup goals
8.0	RECOMMENDATIONS
8.1	Future land use
9.0	REFERENCES

Figures

Figure 1	Vicinity map
Figure 2	Site plan
Figure 3	Excavation locations
Figure 4	Boring locations
Figure 5	Sampling locations
Figure 6	Air sampling locations
Figure 7	Maps of concentrations of COPCs
Figure 8	AOC sample locations

Tables

Table 1	Results of comparison of off-site fill to LANL background values (BVs)
Table 2	Summary of COPCs
Table 3	Summary of radionuclides
Table 4	Summary of organics
Table 4	Summary of inorganics

Appendixes

Appendix A	Acronyms and Abbreviations, Metric Conversion Table, and Data Qualifier Definitions
Appendix A	Acronyms and abbreviations, metric conversion table, and data qualifier definitions
Appendix B	Field methods
Appendix C	Field screening data
Appendix D	Field laboratory data
Appendix E	Analytical program

Appendix D Analytical results
Appendix G Management of investigation-derived waste
Appendix H Risk assessment(s) if necessary