

**Attachment B:  
LANL: Defense Soil and Groundwater Recovery Act Project**

**Project Operating Plan**

**BACKGROUND**

<b>Recovery Act Project:</b>	LANL: Defense Soil and Groundwater Recovery Act Project
<b>TAFS:</b>	89-09/10-0253
<b>Project Identification Code:</b>	2002251
<b>Recovery Act Bill Reference:</b>	PL 111-5 Title IV – Energy and Water Development, Defense Environmental Cleanup (H.R. 1-26)
<b>Project Cost:</b>	\$78,800,000
<b>Budget Authority:</b>	05949, FD.06.13.00.0 - \$78,000,000
<b>Program Office:</b>	Environmental Management (EM)
<b>Recovery Program Plan:</b>	EM - Defense
<b>Management Office:</b>	George Rael, Assistant Manager, Environmental Operations, Los Alamos Site Office Phone: 505-606-0397 E-mail: <a href="mailto:Grael@doeal.gov">Grael@doeal.gov</a> David Gregory, FPD Los Alamos Site Office <a href="mailto:DGregory@doeal.gov">DGregory@doeal.gov</a> , 505-667-5808

**LEADS**

<b>Implementation:</b>	NNSA Service Center, Albuquerque, NM Los Alamos National Laboratory
<b>Breakthrough:</b>	N/A
<b>Laboratory:</b>	N/A

**I. SUMMARY and OBJECTIVES**

**Summary:** The Material Disposal Area (MDA) B is an inactive subsurface disposal site, located in Technical Area (TA-21) at the Laboratory. From 1944 until it closed in 1948, MDA B received contaminated materials from the earliest Laboratory operations and may contain both hazardous chemical and radioactive waste. Known in the 1940s as the “contaminated dump,” MDA B was the first common disposal area for radioactive waste generated at the Laboratory. The waste disposal units at MDA B consist of shallow pits and/or trenches. The overall length of the MDA B waste disposal areas is approximately 594 m (1,950 ft) and an overall width that ranges between 22 m (75 ft) and 91 m (300 ft). Interstitial soil and fill material is likely present in some areas between and within waste disposal units.

Completion of the MDA B cleanup project is a Consent Order Milestone required by the State of New Mexico Environmental Department (NMED). The principal objectives of the MDA B project are:

- Characterize the types and quantities of waste contained in historical disposal trenches at MDA B;
- Remove, and properly dispose of all waste material buried in disposal trenches;
- Collect and analyze soil and rock for residual contamination along the perimeter after the contents of the disposal cells have been removed. Remedial action goals are to meet residential risk scenarios;
- Meet the NMED Consent Order milestone with the delivery of the Investigation Completion Report by December 31, 2010;

The MDA B Project is located in the light industrial business district of Los Alamos and includes approximately 6 – 10 acres of future land transfer property that could be part of the Los Alamos County's Trinity Revitalization Project.

This Recovery Act work ties to the following DOE and EM Strategic Goals and Themes:

DOE Strategic Goal 4 – Environmental Responsibility – Protecting the environment by providing a responsible resolution to the environmental legacy of nuclear weapons production.

DOE Strategic Goal 5 – Management and Excellence – Enabling the Department's mission through sound management and business practices.

EM Strategic Goals – To safely disposition large volumes of nuclear waste; safeguard materials that could be used in nuclear weapons; deactivate and decommission thousands of contaminated facilities no longer needed by the Department to carry on its current mission; EM is fulfilling its commitments to reduce overall risk and complete cleanup across all sites for generations to come.

**Public Benefits:** This project is expected to create many new jobs for the Northern New Mexico community and will allow approximately 6 – 10 acres of lands to be transferred to the Los Alamos County once cleanup is completed. Jobs will be created and/or retained from the initial planning of the project, through the procurement of capital equipment with local vendors, remediation contractors, transportation of waste, treatment storage disposal facilities, subsurface drilling investigations, site restoration activities, surveillance and maintenance activities, surface water pollution prevention inspections, clean air act monitoring, and other support functions. Accelerating the removal and proper disposal of hazardous or radiological material reduces the overall risk to workers, the public and environment.

**Recovery Act Project Impacts:** This project also fits into the larger program office goals by reducing the overall contaminated footprint of EM liability at LANL.

## II COST & SCHEDULE

**Table 1a: Budget Implementation 12 Week Obligations (\$M)**

	Week of ARRA Activities (Beginning Week of March 9)											
	1	2	3	4	5	6	7	8	9	10	11	12
<b>MDA B Remediation</b>												

**NOTE:** Assumes release of ARRA funding by April 13, 2009

**Table 1b: Budget Implementation 12 Week Expenditures (\$M)**

	Week of ARRA Activities (Beginning Week of April 13)											
	1	2	3	4	5	6	7	8	9	10	11	12
<b>MDA B Remediation</b>												

**NOTE:** Schedule will be adjusted subject to receipt of funds.

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**Table 2a: Budget Implementation Monthly & Yearly Obligations (\$M)**

	FY 2009 Q3			FY 2009 Q4			FY 2010 Q1		
	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
MDA B Remediation	FY 2010 Q2			FY 2010 Q3			FY 2010 Q4		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept
	FY 2011 Q1			FY 2011 Q2			FY 2011 Q3 & Q4		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr – Sept		

NOTE: Assumes release of ARRA funding by April 13, 2009

**Table 2b: Budget Implementation Monthly & Yearly Expenditures (\$M)**

	FY 2009 Q3			FY 2009 Q4			FY 2010 Q1		
	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
MDA B Remediation	FY 2010 Q2			FY 2010 Q3			FY 2010 Q4		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept
	FY 2011 Q1			FY 2011 Q2			FY 2011 Q3 & Q4		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr – Sept		

NOTE: Assumes release of ARRA funding by April 13, 2009

Funds Returned and Offsetting Collections

NA

**Table 3: Funds Returned and Offsetting Collections (\$M)**

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15
There are no returned funds or any offsetting collections							

Changes to Baseline Budget

**Table 4: Changes to Baseline Budgets (\$M)**

Changes to Baseline Budget	Increase/Decrease	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15
Program Direction After FY 2010 (Example Only)	Increase							
Continuation of New Programs (Example Only)	Increase							
Project Acceleration (Example Only)	Decrease							

## Milestones

Weekly/Monthly Milestones for MDA B Cleanup Scope			
Provide weekly milestones through May 8th and Monthly milestones thereafter through Sept. 2011 (add lines as necessary)			
	DATE	Comments	
1	Submit DSA page change for Geoprobe activities at MDA B	3/13/2009	Activity completed under base program funding. Subsequent activities transferred to Stimulus Project upon funding receipt.
2	Meet with LASO to discuss DOE standard 1120 application to MDA B	3/13/2009	Activity completed under base program funding. Subsequent activities transferred to Stimulus Project upon funding receipt.
3	SAP Addendum Workplan to NMED for Geoprobe	4/10/2009	
4	MDA B Emergency Planning Hazards Analysis (EPHA) draft complete	4/17/2009	
5	Submit USI MDA B Fire Protection Program and Site Maintenance Program SMP 5.6.4/5.6.6	4/24/2009	
6	Complete review of MDA B ES&H Plan	4/24/2009	
7	60% reviews of MDA B DCP 1 package complete	4/30/2009	
8	MDA B Anomalous Waste Characterization Plan complete	5/1/2009	All subsequent activities dependent on receipt of ARRA funding on or before May 1, 2009.
9	MDA B AC 5.4 and AC 5.9 procedures ready for implementation	5/8/2009	
10	MDA B draft waste tracking database complete	5/15/2009	
11	Phase B mobilization training complete	Jun- 09	
12	60% Reviews of MDA B DCP 2, 3, 4, and 5 Package Complete	Jun- 09	
13	MDA B mockup ready for on the job training (OJT) Begin Geoprobe	Jun-09	
14	All MDA B equipment and systems available on-site	Jul - 09	
15	MDA B enclosure and DIF installed	Aug-09	
16	MDA B Phase B mobilization complete	Sep-09	
17	Ready for Type 2 MSA - removal operations MDA B	Oct-09	

**Weekly/Monthly Milestones for MDA B Cleanup Scope**

Provide weekly milestones through May 8th  
and Monthly milestones thereafter through Sept. 2011 (add  
lines as necessary)

		DATE	Comments
18	MDA B Type 2 MSA complete	Oct-09	
19	MDA B closeout CORR prestarts complete	Nov-09	
20	Conduct NNSA ORR - MDA B	Dec-09	
21	NNSA authorization for field operations - MDA B	Dec-10	
22	Start procurement enclosure 2 - MDA B	Jan-10	
23	Complete removal Trench 4, section 1 - MDA B	Feb-10	
24	Enclosure number 2 functional and initiation of excavation - MDA B	Mar-10	
25	Removal Trench 4 complete - MDA B	April-10	
26	Start removal Trench 5 - MDA B	May-10	
27	Complete removal Trench 5, section 1 - MDA B	Jun-10	
28	Removal Trench 2 and 3 complete - MDA B	Jul-10	
29	Removal Trench 5 complete - MDA B	Jul-10	
30	Removal Trench 8 complete - MDA B	Aug-10	
31	Removal Trench 6 complete - MDA B	Sep-10	
32	Removal Trench 10 complete - MDA B	Oct-10	
33	Removal Trench 7 complete - MDA B	Nov-10	
34	Removal Trench 9 complete/all wastes packaged for shipment - MDA B	Nov-10	
35	Complete disposal of MDA B wastes	Nov-10	
36	Verification sampling program complete - MDA B	Dec-10	
37	Internal draft RCR available for LANL review - MDA B	Dec-10	
38	Submit RCR report to NMED - MDA B	Dec-10	
39	Field operations/site restoration complete - MDA B	Jul-11	

- All milestones beyond May 1, 2009 assume release of ARRA funding by May 1, 2009.
- Schedule risk is associated with obtaining funding to authorize the subcontractor to complete the design and procurement of long lead time items such as: the excavation enclosure, ventilation systems, and support equipment. The subcontractor and their vendors are currently authorized under EM base program funding (PBS 0030) through the 60% design.
- The schedule for actual excavation at MDA B accounts for moderately hazardous conditions at the dig-face. There is some risk to the schedule, of encountering extremely hazardous materials, requiring additional safety measures to be put in place.

**Table 5: Delivery Schedule for Capital Asset Projects [ENTER INTO SHAREPOINT DIRECTLY] N/A (until OEMC and EM agree on 413.3A graded approach)**

Program/OECM Milestone	Delivery (End) Date	Comments
Develop capital asset projects Integrated Project List	N/A	
Develop Parametric	N/A	

Performance Baseline (Individual Projects)		
If < \$100 M Perform IPR, > \$100 M Perform EIR (Individual Projects)	N/A	
Approve Performance Baseline	N/A	
Approve Start of Construction	N/A	
Approve Project Completion	N/A	

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### III. PERFORMANCE

**Performance Measures Table 6: Project Performance Targests**

Recovery Act Project Identification Code	2002251
Linkage To S-1 Priorities	National Security and Legacy – This effort will remove approximately 25,000 CY of contaminated soils and restore the site to residential standards.
Linkage to Current Program Goal (if applicable)	DOE Strategic Goal 4 – Environmental Responsibility – Protecting the environment by providing a responsible resolution to the environmental legacy of nuclear weapons production.  EM Strategic Goals – To safely disposition large volumes of nuclear waste; safeguard materials that could be used in nuclear weapons; deactivate and decommission thousands of contaminated facilities no longer needed by the Department to carry on its current mission; EM is fulfilling its commitments to reduce overall risk and complete cleanup across all sites for generations to come.
Two-Year Outcome-Oriented Performance Measure (through FY11)	This effort will remove approximately 25,000 CY of contaminated soils and restore the site to residential standards.
First Year Performance Target (FY09)	Completion of all engineering design, log lead time procurement items, and mobilization
Q1 - Project-Level Quarterly Performance Milestone(s)	
Q2 - Project-Level Quarterly Performance Milestone(s)	
Q3 - Project-Level Quarterly Performance Milestone(s)	Completion of all engineering design and long lead time procurement items, conduct Management Self Assessment (MSA) for Direct Push Technology sampling (DPT) and begin DPT sampling
Q4 - Project-Level Quarterly Performance Milestone(s)	Delivery of first enclosure and support system.

Second Year Performance Target (FY10)	This effort will remove approximately 10,000 CY of contaminated soils and restore the site to residential standards.
Q1 - Project-Level Quarterly Performance Milestone(s)	Delivery of field laboratories, DIF, conduct mock testing, complete mobilization, and commence MSA
Q2 - Project-Level Quarterly Performance Milestone(s)	Begin excavation and disposal
Q3 - Project-Level Quarterly Performance Milestone(s)	Continue excavation and disposal
Q4 - Project-Level Quarterly Performance Milestone(s)	Continue excavation and disposal
Third Year Performance Target (FY11)	This effort will remove approximately 15,000 CY of contaminated soils and restore the site to residential standards.
Q1 - Project-Level Quarterly Performance Milestone(s)	Continue excavation and disposal. Submit Remedy Completion Report to NMED.
Q2 - Project-Level Quarterly Performance Milestone(s)	Begin site restoration.
Q3 - Project-Level Quarterly Performance Milestone(s)	Continue site restoration.
Q4 - Project-Level Quarterly Performance Milestone(s)	Complete site restoration.

**National Strategic Benefits**

**Table 7: National Strategic Benefits [ENTER INTO SHAREPOINT DIRECTLY] N/A**

1. Carbon Emission Reductions: Estimated 5-year undiscounted CO <sub>2</sub> reduction (in metric tons of CO <sub>2</sub> equivalent) are 23,930 metric tons
2. Oil Consumption Reductions: Estimated 5-year reduction in undiscounted oil consumption (in barrels of oil equivalent) is [0]

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**IV MANAGEMENT**

**Secretarial-level Items**

**Table 8: Secretary's Priorities**

Secretary's Priorities	Project Impacts (Qualitative)	Project Impacts (Quantitative)
Science and Discovery	NA	NA
Clean, Secure Energy	NA	NA

Economic Prosperity	Job creation and/or retention and positive economic impact resulting from the purchasing of supplies and materials from local businesses and vendors.	Create and/or retain many new jobs through the life of the project from the planning stages through site restoration. At the conclusion of the project there will be approximately 6 acres of land available for transfer to Los Alamos County.
National Security and Legacy	Accelerating the removal and proper disposal of hazardous or radiological material reduces the risk if releases of this material to the environment and reduces the overall contaminated footprint at the site	As a result workers, the public and the environment will be protected from potential exposure to hazardous and radiological materials.
Climate Change	NA	NA

**Collaboration and Coordination**

- The remediation of MDA B is regulated by New Mexico Environmental Department (NMED) under the requirements of the Order on Consent. LANL also coordinates activities with EPA Region VI, the regulatory of air quality at MDA B.
- Certain waste generated at MDA B will require disposition at the Nevada Test Site (NTS). Subcontractors, contractors and DOE personnel from LANL will work closely with NTS personnel to ensure waste disposal activities can be accomplished on a schedule that supports timely completions of activities under the ARRA.

**Federal Infrastructure Investments**

There are no infrastructure investment project activities associated with this Recovery Act Project.

Accelerating the removal and proper disposal reduces risk of releases of this material to the environment. MDA B contains hazardous or radiological material. Accelerating the removal and proper disposal reduces the overall risk to workers, the public and environment.

**Line Management**

The contractor will follow all requisite procedures and practices necessary to maintain accountability and transparency with respect to Recovery Act activities. These practices include cost tracking through a DCAA audited accounting and procurement system and a DOE audited project management reporting system. As a part of this reporting system, the contractor will continue to have monthly internal project reviews and continue to conduct a monthly project review with the integrated project team (IPT). The ARRA projects will be

tracked and reported independently. The contractor will use the existing work management program and integrated safety management system (ISMS) to plan and execute the ARRA projects. The contractor will have a dedicated project lead, accountant and document tracking specialist for documentation purposes for the ARRA projects. In addition, the contractor and DOE will have weekly update meetings to discuss progress and any potential impediments

**Public Affairs.** Los Alamos National Laboratory has developed a Public Involvement Plan (PIP) to inform and to seek input from the Los Alamos community and especially from the landowners and business owners along DP Road. The MDA B is located on the south side of the commercial businesses along DP Road. LANL continues to invite community participation coinciding with key project activities during the life cycle of the project. The principal objectives of this PIP are to communicate the following scope:

- a) Evaluation of the contents of MDA B during excavation and proper disposition of removed contents.
- b) Assess the nature and extent of residual contamination, if any, related to the Laboratory's historical disposal activities.
- c) Involve the public before changes that may occur to DP Road and periodically thereafter.
- d) Allow stakeholder input for corrective actions that may be required in the future.

Underlying all strategies and actions is the belief that the landowners of Los Alamos County, and especially DP Road, have the right to know about issues that affect their health and welfare and to know about plans to remove and/or make harmless existing pollution conditions. This PIP has been developed with the following principles:

- a) **Access to information:** A record of all public input will be kept. Technical documents will be placed in locations available to the community principally on the LANL web site.
- b) **Clarity:** Scientific information and regulatory procedures will be presented in terms understandable to the public.
- c) **Responsiveness:** All questions by the public will be answered in a timely manner.
- d) **Multilevel communication:** A variety of methods will be used to reach out to the public. Web site postings, direct mail, community meetings, and articles in the printed media will be employed.
- e) **Timeliness:** The public will receive adequate notice of meetings, and meetings will be scheduled at a time and place that are convenient and comfortable. Adequate time to review materials will also be provided.
- f) **Coordination:** Good communication among all concerned agencies and community organizations are to the success of the process.
- g) **Accessibility of personnel:** Both the Laboratory and the Department of Energy will be available to the community.

- h) **Educate:** The public will receive briefings on the investigation and the corrective action processes so that they are able to provide informed input to the process.

Last Public Meeting was held on March 12, 2009, at University of New Mexico- Los Alamos Branch.

**Needs from Staff Offices**

N/A

- 1) Human Capital:

**Table 9: Information on Hiring Under the Recovery Act [ENTER INTO SHAREPOINT DIRECTLY]**

# & Type of Positions (Title, Series and Grade)	Location (HQ or Field – w/location)	Federal or Contractor	Timeframe (1-6mos; 6+mos; other; specify date needed if possible)
None			

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