

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Albuquerque**

Site Summary Level: **Los Alamos National Laboratory**

Project **AL030 / Land Parcels Transfer at LANL**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0183**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Purpose: The purpose of The Department of Energy (DOE's) Environmental Restoration (ER) Program is to protect human health and the environment from hazards posed by inactive and surplus DOE facilities and contaminated lands. This is done by remediating sites and facilities in the most cost efficient and responsible manner possible in order to provide for future beneficial use. The sites being addressed by the ER project at Los Alamos generally pose low risks of adverse impact to the health and safety of the public, workers, or the environment because most source terms are moderate to small, pathways for sources to reach receptors are limited, and the larger source terms have restricted accessibility to potential receptors. The primary driver for the ER project is: The Laboratory's Resource Conservation and Recovery Act (RCRA) permit requiring corrective action.

Scope: The scope of the Los Alamos National Laboratory (LANL) ER Project encompasses RCRA Hazardous and Solid Waste Amendments (HSWA) corrective actions, decommissioning, RCRA closures, and the associated project wide technical support, program and information management.

On November 26, 1997, Congress enacted legislation that required the Secretary of Energy to identify land at LANL to be considered for conveyance and transfer to Los Alamos County or to the Secretary of the Interior, in trust for the Pueblo of San Ildefonso. (Public Law 105-119, the Departments of Commerce, Justice, and State, the Judiciary, and Related Agencies Appropriations Act, 1998). The DOE tentatively identified nine, later reconfigured to ten land parcels for such transfer in the "Land Transfer Report to Congress under Public Law 105-119, A Preliminary Identification of Parcels of Land in Los Alamos, New Mexico for Conveyance or Transfer" (April, 1998). Public Law 105-119 also directed the DOE to identify any environmental restoration or remediation that would be necessary within any of these tracts prior to conveyance and transfer.

Public Law 105-119 states that the purpose of the conveyance and transfer of DOE lands is twofold: to increase economic diversification and self-sufficiency within Los Alamos County and, more broadly, in northern New Mexico; and for preservation purposes. Conveyance and transfer could also provide at least partial Natural Resources Damage Assessment (NRDA) credit and compensation for resources that might have been lost as a result of chemical releases associated with Laboratory activities. Both Los Alamos County and San Ildefonso Pueblo submitted preliminary statements of interest in some or all of the ten parcels to DOE in June 1998, and these submittals included preliminary proposed land uses for each parcel.

There are 200 potential release sites (PRSs) and 154 structures located within the ten parcels tentatively identified by DOE for conveyance and transfer. Ninety nine of these PRSs have been recommended for no further action and three PRSs have been removed from the RCRA permit. Two of the parcels - Site 22 and the Manhattan Monument - have neither PRSs nor structures associated with them and, consequently, the environmental restoration issues associated with them are minimal. At the other end of the spectrum, the TA-21 parcel contains 154 of the 200 PRSs and 125 of the 154 structures. Forty of the remaining structures associated with land transfer are part of the EM scope of work. The remaining structures have yet to be evaluated for Decontamination and Decommissioning (D&D) needs and are not yet added to the excess facility list for this PBS. The environmental restoration issues associated with this parcel are the most complex, and will be the most costly, of all of the tentatively proposed land transfer parcels. Some of the other parcels, including the White Rock Y, the White Rock parcel, and the TA-74 parcel, are situated within one or more canyons drainage systems and could, potentially, be the recipients of contaminant migration from mesa top or up-canyon locations.

The estimated costs and durations of environmental restoration among the ten parcels vary considerably, depending on the types and complexity of the

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PRSs and structures present onsite, and on the proposed future land use of each parcel. The DOE has estimated a range of waste volume estimates, cleanup costs, and cleanup durations for each parcel, based on land use scenarios that represent the contemplated uses to which each parcel might be put.

DOE's recommendations on proposed remedies, and estimates of projected waste volumes, cleanup costs and cleanup durations are based on site characterization data as it exists today. They are also based on the DOE's understanding of the types of cleanup strategies and the cleanup levels that are generally acceptable under the RCRA corrective action regulations. The DOE believes that the remedies proposed for each parcel are appropriate based on the specific land use assumptions for that parcel. Such assumptions reflect the contemplated uses for each parcel. If a parcel is ultimately proposed for a use that is different from those presented in the Environmental Restoration Report, dated February 26, 1999, then the proposed remedies and their associated costs could change.

Technical Approach: The LANL Environmental Restoration Project's approach to implementing the corrective action process uses a modified version of the DOE's streamlined approach. This approach incorporates elements of data quality objectives, risk assessment, and Environmental Protection Agency's (EPA) Superfund Accelerated Cleanup Model (SACM) to facilitate the rapid cleanup of PRSs. Both the technical approach and decision logic are tied to the EPA's regulations and guidance. For any given site, the ultimate objective of the approach is to reach a point at which an NFA is necessary. The approach stresses

- use of conceptual models and early identification of potential response actions based on existing information to assess sites,
- phased site characterization to close sites as early as possible, and
- integration of the phases of the corrective action process RCRA Facility Investigation (RFI), corrective measures study (CMS), and corrective measures implementation (CMI) to collect data applicable to all three phases and to apply engineering analysis as early as possible in the process
- real time consultations and other interactions with regulatory agencies.

Many corrective action decisions require collecting, assimilating, and evaluating environmental data. The LANL technical approach to environmental restoration begins with decision criteria that are sufficiently explicit to guide the design of field investigations and the evaluation of the resulting data. Decisions required during the RFI include

- determining whether contaminants have been released to the environment- -the site-screening decision,
- determining whether corrective action is required for the site- -a risk-based decision that may be made before or after a CMS has been initiated, and
- determining whether a formal CMS is required to select and design an appropriate corrective action.

Depending on the nature and complexity of the site and the quality of existing information, it may be possible to propose a site for no further action (NFA). The remaining sites fall into the following categories:

- sites where accelerated cleanup is possible,
- sites where CMS and CMI are expected, and
- sites for which existing information is not adequate to support a decision concerning potential outcomes that include NFA, accelerated cleanup, and further investigation.

Site-specific land use assumptions and exposure scenarios are considered in establishing preliminary remediation goals and media cleanup standards, as well as in risk assessments, to estimate the reduction of risk that could be realized by a potential corrective action. Target risk and dose levels are

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set following EPA and DOE guidance. Following EPA guidance, preliminary remediation goals and media cleanup standards for nonradioactive carcinogens are derived using EPA's target incremental risk range of 10⁻⁴ to 10⁻⁶. A target Hazard Index value of 1 is used for noncarcinogens. Hazardous constituents and radionuclide cleanup levels are evaluated based on total overall risk from a site. If radionuclides are the only contaminants of concern, the cleanup is conducted under the jurisdiction of DOE in accordance with DOE orders.

The project is working with other organizations to build into the process approaches for addressing National Resources Damage Assessment, watershed protection, ground water protection, and National Environmental Policy Act(NEPA) evaluations. This project also is developing a material disposal characterization strategy and presumptive remedy approach, as well as an ecological risk assessment.

Project Status in FY 2006:

The LANL ER Project's land transfer activities are scheduled to end in 2007, beyond 2006. However, current funding profile is about \$157M short of providing resources to complete the full scope required. The work remaining will include completing the remediation of 2 material disposal areas, decommissioning efforts at several facilities, completion of the assessment and remediation of some canyons, and work at less complex sites which could not be conducted due to funding constraints.

Post-2006 Project Scope:

The LANL ER Project will not be completed by 2006. Achieving the full scope required for completing this effort even by 2007 will require an increased funding profile. Following completion, it is anticipated that responsibility for long-term surveillance and maintenance will be turned over to other DOE & Laboratory organizations at that time. Surveillance and maintenance for hazardous waste sites may extend for only 30 years, but could extend indefinitely for most radiologically contaminated sites.

Project End State

The majority of lands and facilities addressed under the project will be used to achieve the future Laboratory mission. Therefore, the primary end point ER activities will achieve levels of remediation that generally allow industrial type activities to continue in a safe manner, with associated process development for NRDA, etc.

The 154 structures which may be decommissioned will be done such that the associated property will be available for industrial use at completion. No additional Surveillance and Maintenance (S&M) is anticipated for these properties following decommissioning.

It is not anticipated that ground water remediation will be necessary at LANL. However, should it be determined that such remediation is necessary, it will take place following plans approved by the administrative authority and will continue after completion.

Cost Baseline Comments:

The cost estimate was developed using the activity based cost estimating developed for the baseline estimates. Increases to the estimate to complete are primarily driven by recent correspondence received from and interactions with the Administrative Authority (New Mexico Environment Department).

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Safety & Health Hazards:

Hazards associated with this Project Baseline Summary (PBS) include exposure to hazardous chemicals and radionuclides, construction hazards, and environmental hazards such as lightning, Hantavirus, and poisonous snakes. The project works under the umbrella of a Generic Health and Safety Plan that outlines procedures for identifying hazards and develop the proper controls. Each task or set of tasks is supported by a Site Specific Health and Safety Plan that identifies the specific hazards associated with the tasks and the specific controls to be taken.

These hazards are addressed in the Los Alamos National Laboratory Environmental Restoration Health and Safety Plan (March 25, 1995) which serves as the umbrella health and safety document for the ER project. Each work task is supported by a site specific health and safety plan that tiers from the umbrella document. These site specific plans deal with hazards that are specific to the work task itself. To date over 100 site specific health and safety documents have been prepared; the plan contains scope for updating the umbrella document as needed and for preparation of task and site specific Health and Safety documentation.

Safety & Health Work Performance:

Readiness reviews are held prior to the initiation of field tasks or groups of tasks. These ensure that controls are in place prior to performing work. Worker awareness is enhanced through daily pre-work meetings that discuss the hazards and protective controls to be encountered on that day. Health and Safety resources are split about evenly between radiation protection and industrial hygiene functional areas. Annual costs for this support are about \$440K, supporting about 9 Full Time Equivalent (FTEs) split between radiation protection and industrial hygiene.

The ER project only funds directly for industrial hygiene and radiation protection support that is over and above that provided through indirectly funded sources. Other health and safety support areas are funded through institutional funds derived from indirect charges. The Health and Safety FTE costs are fully burdened and also include some amount of materials and supplies to support the FTEs. In some cases additional equipment for Health and Safety services is included in the total costs. The costs are documented in the ER project baseline.

PBS Comments:

Baseline Validation Narrative:

The Los Alamos National Laboratory Environmental Restoration technical scope, cost, and schedule was validated in February 1992 by the Department of Energy Albuquerque Operations Office. Since that time, the scope, cost and schedule has been modified and these modifications reviewed through baseline change control. Addition, program and cost reviews such as EM-40 Cost Quality Management Assessments (March 1992), Independent Cost Evaluation (March 1993), and Major Systems Acquisition (May 1993) reviews have been conducted. In addition, AL Environmental Restoration Division (ERD) Baseline reviews were conducted (December 1996 and August 1997). In October 1998 the FY99 LANL ER Life Cycle Baseline was reviewed. At that time the DOE determined that the Baseline could not be validated. The ER Project is being rebaselined in FY99, and a review/validation is scheduled for September 1999.

General PBS Information

Project Validated?	Yes	Date Validated:	2/1/1992
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General PBS Information

Has Headquarters reviewed and approved project? No

Date Project was Added: 3/17/1999

Baseline Submission Date: 7/1/1999

FEDPLAN Project? Yes

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	N	Y	N	Y	N	N	N	Y

Project Identification Information

DOE Project Manager: Theodore J. Taylor

DOE Project Manager Phone Number: 505-665-7203

DOE Project Manager Fax Number: 505-665-4504

DOE Project Manager e-mail address: ttaylor@doe.lanl.gov

Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
PBS Baseline (current year dollars)	377,737	127,976	505,713						15,000	36,937	47,700	61,900	71,900	71,800	72,500
PBS Baseline (constant 1999 dollars)	340,772	78,675	419,447						14,606	35,226	44,555	56,630	64,425	63,012	62,318
PBS EM Baseline (current year dollars)	377,737	127,976	505,713						15,000	36,937	47,700	61,900	71,900	71,800	72,500
PBS EM Baseline (constant 1999 dollars)	340,772	78,675	419,447						14,606	35,226	44,555	56,630	64,425	63,012	62,318

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	2007	2008	2009	2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
PBS Baseline (current year dollars)	53,300	0	957	825	5,047	5,600	6,213	6,894	7,649	7,514	4,299	4,770	5,293	5,872	6,515	7,228
PBS Baseline (constant 1999 dollars)	44,872	0	773	653	3,753	3,753	3,753	3,753	3,753	3,322	1,715	1,715	1,715	1,715	1,715	1,715
PBS EM Baseline (current year dollars)	53,300	0	957	825	5,047	5,600	6,213	6,894	7,649	7,514	4,299	4,770	5,293	5,872	6,515	7,228
PBS EM Baseline (constant 1999 dollars)	44,872	0	773	653	3,753	3,753	3,753	3,753	3,753	3,322	1,715	1,715	1,715	1,715	1,715	1,715

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
			2.70%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project:

Current Projected End Date of Project: 9/30/2007

Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

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Project Reconciliation

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	Actual 1997 Cost:	Actual 1998 Cost:
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	0	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars): 0
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	0	

Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):	419,440	New PBS
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	419,440	
Additional Amount to Reconcile (+):	7	
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	419,447	

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
TA73: LA AIRPORT SUBMIT RFI REPORT TO AA	D320B53015		1/14/2000	1/14/2000						Y	
TA73: RFI REPORT SUBMIT TO AA LA AIRPORT	D320B51008		12/8/1998	12/8/1998		12/8/1998				Y	
Project Start			1/15/1999								
Project Start			10/1/1999								
Complete Land Transfer			9/30/2007								
Project Completion Date			9/30/2070								

Milestones - Part II

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
TA73: LA AIRPORT SUBMIT RFI REPORT TO AA	D320B53015										
TA73: RFI REPORT SUBMIT TO AA LA AIRPORT	D320B51008										
Project Start				Y							Initiate documentation as PBS
Project Start										Y	Start project
Complete Land Transfer					Y						Completion of land transfer
Project Completion Date						Y					date of project completion

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
RS														
Assess.	NR	3.00	0.00	3.00			18.00	1.00	1.00		1.00			
RS														
Cleanup	NR	62.00	1.00	63.00	94.00	10.00	19.00			1.00	2.00	3.00	7.00	7.00
Fac.														
Decom.- Assess.	NF	0.00	0.00	0.00	3.00									
Fac.														
Decom.- Cleanup	NF	36.00	4.00	40.00	6.00		4.00			2.00	1.00	2.00	1.00	3.00
Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035	
RS														
Assess.	NR													

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Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
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RS

Cleanup NR 7.00 24.00 8.00 1.00

Fac.

Decom.- Assess. NF

Fac.

Decom- Cleanup NF 3.00 23.00 4.00 4.00

Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total
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RS

Assess. NR 147.00 171.00

RS

Cleanup NR 4.00 171.00

Fac.

Decom.- Assess. NF 48.00 51.00

Fac.

Decom- Cleanup NF 1.00 51.00

Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
LANL	0001		0-003 \ Container storage, Western Steam Plant	Above Ground Material / Waste/Storage Yards and Pads			9/30/1997			9/30/1997		N		N
LANL	0002		0-004 \ Container storage, 6th St. Warehouses	Above Ground Material / Waste/Storage Yards and Pads						5/22/1996		Y	Pending	N

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LANL	0006		0-010(a) \ Surface disposal site	Waste/Miscellaneous Surface Debris						10/16/1992		Y	Approved	N
LANL	0007		0-010(b) \ Surface disposal site, 6th St. Warehouses	Waste/Miscellaneous Surface Debris						5/22/1996		Y	Pending	N
LANL	0008		0-011(a) \ Mortar impact area	Dispersed Surface Contamination/Firing Ranges and Ordnance						3/1/1994		N	Pending	N
LANL	0009		0-011(c) \ Mortar impact area	Dispersed Surface Contamination/Firing Ranges and Ordnance						3/1/1994		Y	Pending	N
LANL	0011		0-011(e) \ Mortar impact area	Dispersed Surface Contamination/Firing Ranges and Ordnance						3/1/1994		N	Pending	N
LANL	0012		0-012 \ Underground tank, Western Steam Plant	Tanks/Underground Storage Tanks			9/30/1997			9/30/1997		N		N
LANL	0013		0-015 \ Firing range, Rendija Canyon	Dispersed Surface Contamination/Firing Ranges and Ordnance						10/16/1992		Y	Approved	N
LANL	0022	R	0-027 \ Storage area, DP Road	Above Ground Material / Waste/Storage Yards and Pads	2005			2005	2005			N		N
LANL	0029		0-030(b) \ Septic system 6th St	Buildings & Equipment/Equipment						9/30/1996		N	Pending	Y
LANL	0037		0-030(i) \ Septic system	Buildings & Equipment/Equipment						9/30/1996		N	Pending	N
LANL	0040		0-030(l) \ Septic system, 6th St. Warehouses	Buildings & Equipment/Equipment						9/30/1996		N	Pending	N
LANL	0041		0-030(m) \ Septic system, 6th St. Warehouses	Buildings & Equipment/Equipment						9/30/1996		N	Pending	N

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LANL	0049		0-033(a) \ Warehouses, 6th Street (UST removal)	Buildings & Equipment/Other Buildings						9/30/1996		N	Pending	N
LANL	0050		0-034(a) \ Landfill, Eastern Area	Waste/Landfills			9/30/1997			9/30/1997		N		N
LANL	0152		19-001 \ Septic system	Buildings & Equipment/Equipment			9/30/1997			9/30/1997		N		N
LANL	0153		19-002 \ Surface disposal site	Waste/Miscellaneous Surface Debris						9/30/1995		N	Pending	N
LANL	0154		19-003 \ Septic tank	Tanks/Septic Tanks			9/30/1997			9/30/1997		N		N
LANL	0155		21-001 \ Container storage	Above Ground Material / Waste/Storage Yards and Pads			9/30/1998	2003	2003			N		Y
LANL	0156	R	21-002(a) \ Container storage	Above Ground Material / Waste/Storage Yards and Pads				2006	2006			N		N
LANL	0157		21-002(b) \ Container storage	Above Ground Material / Waste/Storage Yards and Pads						7/3/1996		Y	Pending	N
LANL	0158		21-003 \ Container storage	Above Ground Material / Waste/Storage Yards and Pads	1997	1997		2003	2003			N		N
LANL	0159		21-004(a) \ Aboveground tank	Tanks/Above Ground Storage Tanks						6/14/1996		Y	Pending	Y
LANL	0160		21-004(b) \ Tank and/or assoc. equipment	Buildings & Equipment/Equipment						6/14/1996		Y	Pending	Y
LANL	0161		21-004(c) \ Tank and/or assoc. equipment	Buildings & Equipment/Equipment						6/14/1996		Y	Pending	Y
LANL	0162		21-004(d) \ Drain line	Buildings & Equipment/Equipment						2/28/1994		Y	Approved	N

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LANL	0163		21-005 \ Disposal pit	Above Ground Material / Waste/Debris Piles	2004		9/1/1999	2004	1999	9/1/1999		Y		N
LANL	0164	R	21-006(a) \ Disposal pit Bldg 21-2	Above Ground Material / Waste/Debris Piles	2005			2005	2005			N		Y
LANL	0165	R	21-006(b) \ Disposal pit	Above Ground Material / Waste/Debris Piles	1999	2002		2005	2005			N		Y
LANL	0166	R	21-006(c) \ Disposal pit Bldg 21-3	Above Ground Material / Waste/Debris Piles	2002			2005	2005			N		Y
LANL	0167	R	21-006(d) \ Disposal pit Bldg 21-3	Above Ground Material / Waste/Debris Piles	2002			2005	2005			N		Y
LANL	0168	R	21-006(e) \ Surface disposal site Bldg 21-4	Waste/Miscellaneous Surface Debris	2009			2009	2009			N		Y
LANL	0169	R	21-006(f) \ Disposal pit Bldg 21-4	Above Ground Material / Waste/Debris Piles	2009			2009	2009			N		Y
LANL	0170		21-007 \ Incinerators	Buildings & Equipment/Equipment						1/28/1994		Y	Pending	N
LANL	0171		21-008 \ Incinerator	Buildings & Equipment/Equipment						1/28/1994		Y	Approved	N
LANL	0172		21-009 \ Waste treatment lab	Buildings & Equipment/Other Buildings	1998	1998		2004	2004			N		N
LANL	0173		21-010(a) \ Waste treatment facility	Buildings & Equipment/Other Buildings	1998	1998		2006	2006			N		N
LANL	0174		21-010(b) \ Waste treatment facility	Buildings & Equipment/Other Buildings	1998	1998		2006	2006			N		N
LANL	0175		21-010(c) \ Waste treatment facility	Buildings &	1998	1998		2005	2001			N		N

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LANL	0176		21-010(d) \ Waste treatment facility	Equipment/Other Buildings Buildings & Equipment/Other Buildings	1998	1998		2005	2005			N		N
LANL	0177		21-010(e) \ Waste treatment facility	Buildings & Equipment/Other Buildings	1998	1998		2005	2005			N		N
LANL	0178		21-010(f) \ Waste treatment facility	Buildings & Equipment/Other Buildings	1998	1998		2005	2005			N		N
LANL	0179		21-010(g) \ Waste treatment facility	Buildings & Equipment/Other Buildings	1998	1998		2005	2005			N		N
LANL	0180	R	21-010(h) \ Waste treatment facility	Buildings & Equipment/Other Buildings	2005			2005	2005			N		N
LANL	0181		21-011(a) \ Waste treatment facility	Buildings & Equipment/Other Buildings	1998	1998		2005	2005			N		Y
LANL	0182		21-011(b) \ Sump	Liquid Surface Impoundments/Sumps	1998	1998		2005	2005			N		Y
LANL	0183		21-011(c) \ Tank and Sump	Liquid Surface Impoundments/Sumps		1997	9/30/1998	2005	2005			N		Y
LANL	0184		21-011(d) \ Aboveground tank	Tanks/Above Ground Storage Tanks	1998	1998		2005	2005			N		Y
LANL	0185		21-011(e) \ Aboveground tank	Tanks/Above Ground Storage Tanks	1998	1998		2005	2005			N		Y
LANL	0186		21-011(f) \ Aboveground tank	Tanks/Above Ground	1998	1998		2005	2005			N		Y

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				Storage Tanks										
LANL	0187		21-011(g) \ Aboveground tank	Tanks/Above Ground Storage Tanks	1998	1998		2005	2005			N		Y
LANL	0188		21-011(h) \ Aboveground tank	Tanks/Above Ground Storage Tanks	1998	1998		2005	2005			N		Y
LANL	0189		21-011(i) \ Aboveground tank	Tanks/Above Ground Storage Tanks	1998	1998		2005	2005			N		Y
LANL	0190		21-011(j) \ Aboveground tank	Tanks/Above Ground Storage Tanks	1998	1998		2005	2005			N		Y
LANL	0191		21-011(k) \ Outfall	Waste/Trenches / Outfalls	1998	1998		2003	2003			N		Y
LANL	0192		21-012(a) \ Dry well	Above Ground Material / Waste/Debris Piles						5/23/1991		Y	Approved	N
LANL	0193	R	21-012(b) \ Dry well	Above Ground Material / Waste/Debris Piles	2005			2005	2005			N		N
LANL	0194		21-013(a) \ Surface disposal site	Waste/Miscellaneous Surface Debris			8/21/1997	1997		8/21/1997		N		Y
LANL	0195	R	21-013(b) \ Surface disposal site	Waste/Miscellaneous Surface Debris	2003			2003	2003			N		Y
LANL	0196		21-013(c) \ Surface disposal site	Waste/Miscellaneous Surface Debris						9/30/1995		N	Pending	N
LANL	0197		21-013(d) \ Surface disposal site (Cold Dump)	Waste/Miscellaneous Surface Debris						9/30/1995		N	Pending	N
LANL	0198		21-013(e) \ Surface disposal site	Waste/Miscellaneous Surface Debris						9/30/1995		N	Pending	N
LANL	0199		21-013(f) \ Surface disposal site	Waste/Miscellaneous Surface Debris			9/30/1998	2006	2006			N		Y
LANL	0200	R	21-013(g) \ Surface disposal site	Waste/Miscellaneous				2006	2006			N		N

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				Surface Debris										
LANL	0201	R	21-014 \ Material disposal area (MDA A)	Waste/Miscellaneous Surface Debris	1999	2003		2006	2006			N		Y
LANL	0202	R	21-015 \ Material disposal area (MDA B)	Waste/Miscellaneous Surface Debris	1999	2003		2001	2003			N		Y
LANL	0203		21-016(a) \ Material disposal area (MDA T)	Waste/Miscellaneous Surface Debris	1997	1997		2004	2004			N		Y
LANL	0204		21-016(b) \ Material disposal area (MDA T)	Waste/Miscellaneous Surface Debris	1997	1997		2004	2004			N		Y
LANL	0205		21-016(c) \ Material disposal area (MDA T)	Waste/Miscellaneous Surface Debris	1998	1998		2001	2002			N		Y
LANL	0206	R	21-017(a) \ Material disposal area (MDA U)	Waste/Miscellaneous Surface Debris	1999	2003		2001	2003			N		Y
LANL	0207	R	21-017(b) \ Material disposal area (MDA U)	Waste/Miscellaneous Surface Debris	1999	2003		2001	2003			N		Y
LANL	0208	R	21-017(c) \ Material disposal area (MDA U)	Waste/Miscellaneous Surface Debris	1999	2003		2001	2003			N		Y
LANL	0209	R	21-018(a) \ Material disposal area (MDA V)	Waste/Miscellaneous Surface Debris	1999	2003		2001	2003			N		Y
LANL	0210	R	21-018(b) \ Material disposal area (MDA V) Laundry Facility	Buildings & Equipment/Other Buildings	2006			2006	2006			N		Y
LANL	0211		21-019(a) \ Filter houses/ exhaust stacks	Miscellaneous/Other						1/28/1994		Y	Approved	N
LANL	0212		21-019(b) \ Filter houses/ exhaust stacks	Miscellaneous/Other						1/28/1994		Y	Approved	N
LANL	0213		21-019(c) \ Filter houses/ exhaust stacks	Miscellaneous/Other						1/28/1994		Y	Approved	N
LANL	0214		21-019(d) \ Filter houses/ exhaust stacks	Miscellaneous/Other						1/28/1994		Y	Approved	N
LANL	0215		21-019(e) \ Filter houses/ exhaust stacks	Miscellaneous/Other						1/28/1994		Y	Approved	N

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LANL	0216		21-019(f) \ Filter houses/ exhaust stacks	Miscellaneous/Other						1/28/1994		Y	Approved	N
LANL	0217		21-019(g) \ Filter houses/ exhaust stacks	Miscellaneous/Other						1/28/1994		Y	Approved	N
LANL	0218		21-019(h) \ Filter houses/ exhaust stacks	Miscellaneous/Other						1/28/1994		Y	Approved	N
LANL	0219		21-019(i) \ Filter houses/ exhaust stacks	Miscellaneous/Other						1/28/1994		Y	Approved	N
LANL	0220		21-019(j) \ Filter houses/ exhaust stacks	Miscellaneous/Other						1/28/1994		Y	Approved	N
LANL	0221		21-019(k) \ Filter houses/ exhaust stacks	Miscellaneous/Other						1/28/1994		Y	Approved	N
LANL	0222		21-019(l) \ Filter houses/ exhaust stacks	Miscellaneous/Other						1/28/1994		Y	Approved	N
LANL	0223		21-019(m) \ Filter houses/ exhaust stacks	Miscellaneous/Other						1/28/1994		Y	Approved	N
LANL	0224		21-020(a) \ Filter house	Buildings & Equipment/Other Buildings						1/28/1994		Y	Approved	N
LANL	0225		21-020(b) \ Filter house	Buildings & Equipment/Other Buildings						1/28/1994		Y	Approved	N
LANL	0226		21-021 \ Systematic release (site -wide)	Spills and Leaks/Surface Spills						1/28/1994		Y	Pending	N
LANL	0227	R	21-022(a) \ Waste lines	Buildings & Equipment/Other Buildings				2001	2004			N		Y
LANL	0228	R	21-022(b) \ Waste lines Bldg 21-2	Buildings & Equipment/Other Buildings				2001	2004			N		Y
LANL	0229	R	21-022(c) \ Waste lines Bldg 21-3	Buildings & Equipment/Other Buildings	2001	2002		2001	2003			N		Y
LANL	0230	R	21-022(d) \ Waste lines Bldg 21-4	Buildings & Equipment/Other	2001	2002		2001	2003			N		Y

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				Buildings										
LANL	0231	R	21-022(e) \ Waste lines Bldg 21-5	Buildings & Equipment/Other Buildings	2001	2002		2001	2003			N		Y
LANL	0232	R	21-022(f) \ Waste lines	Buildings & Equipment/Other Buildings	2001	2002		2001	2003			N		Y
LANL	0233	R	21-022(g) \ Waste lines Bldg 21-150	Buildings & Equipment/Other Buildings	2001	2002		2001	2003			N		Y
LANL	0234	R	21-022(h) \ Waste lines	Buildings & Equipment/Other Buildings	2001			2001	2004			N		Y
LANL	0235		21-022(i) \ Tank and/or assoc. equipment	Buildings & Equipment/Equipment	2001	2004		2001	2004			N		Y
LANL	0236		21-022(j) \ Tank and/or assoc. equipment	Buildings & Equipment/Equipment						9/30/1995		N	Pending	N
LANL	0237	R	21-023(a) \ Septic system Bldg 21-3	Buildings & Equipment/Equipment				2003	2003			N		Y
LANL	0238	R	21-023(b) \ Septic system Bldg 21-3	Buildings & Equipment/Equipment				2003	2003			N		Y
LANL	0239		21-023(c) \ Septic system	Buildings & Equipment/Equipment	1997	1997		2003	2003			N		Y
LANL	0240	R	21-023(d) \ Septic system Bldg 21-3	Buildings & Equipment/Equipment				2003	2003			N		Y
LANL	0241	R	21-024(a) \ Septic system	Buildings & Equipment/Equipment				2003	2003			N		Y
LANL	0242		21-024(b) \ Septic system	Buildings & Equipment/Equipment	1997	1997		2003	2003			N		Y

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LANL	0243		21-024(c) \ Septic system	Buildings & Equipment/Equipment	1998	1998		2007	2007			N		Y
LANL	0244		21-024(d) \ Septic system VCA for rad	Buildings & Equipment/Equipment						9/30/1995		N	Pending	N
LANL	0245		21-024(e) \ Septic system	Buildings & Equipment/Equipment						9/30/1995		N	Pending	N
LANL	0246		21-024(f) \ Septic system	Buildings & Equipment/Equipment						2/28/1994		Y	Pending	N
LANL	0247		21-024(g) \ Septic system	Buildings & Equipment/Equipment						2/28/1994		Y	Pending	N
LANL	0248		21-024(h) \ Septic system	Buildings & Equipment/Equipment						9/30/1995		N	Pending	N
LANL	0249		21-024(i) \ Septic system	Buildings & Equipment/Equipment	1997	1997		2003	2003			N		Y
LANL	0250		21-024(j) \ Septic system	Buildings & Equipment/Equipment						2/28/1994		Y	Approved	N
LANL	0251		21-024(k) \ Septic system	Buildings & Equipment/Equipment						2/28/1994		Y	Approved	N
LANL	0252		21-024(l) \ Ind. or san. waste water treat.	Buildings & Equipment/Other Buildings						2/28/1994		Y	Pending	N
LANL	0253		21-024(m) \ Drain line	Buildings & Equipment/Equipment						2/28/1994		Y	Approved	N
LANL	0254		21-024(n) \ Drain line	Buildings & Equipment/Equipment						2/28/1994		Y	Approved	N
LANL	0255		21-024(o) \ Drain line	Buildings & Equipment/Equipment						2/28/1994		Y	Approved	N
LANL	0256		21-025(a) \ Operational facility	Buildings &						5/23/1991		Y	Approved	N

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LANL	0257		21-025(b) \ Operational facility	Equipment/Other Buildings						5/23/1991		Y	Approved	N
LANL	0258		21-026(a) \ Ind. or san. waste water treat.	Buildings & Equipment/Other Buildings			8/21/1997			8/21/1997		N		Y
LANL	0259		21-026(b) \ Surface disposal site	Waste/Miscellaneous Surface Debris			8/21/1997			8/21/1997		N		Y
LANL	0260		21-026(c) \ Waste water treatment facility	Buildings & Equipment/Other Buildings			8/21/1997			8/21/1997		N		Y
LANL	0261		21-026(d) \ Outfall	Waste/Trenches / Outfalls						2/28/1994		Y	Pending	N
LANL	0262		21-027(a) \ Ind. or san. waste water treat.	Buildings & Equipment/Other Buildings	1998	1998		2006	2006			N		N
LANL	0263		21-027(b) \ Outfalls	Waste/Trenches / Outfalls						2/28/1994		Y	Approved	N
LANL	0264	R	21-027(c) \ Ind. or san. waste water treat.	Buildings & Equipment/Other Buildings				2003	2003			N		N
LANL	0265		21-027(d) \ Drain line	Buildings & Equipment/Equipment						2/28/1994		Y	Approved	N
LANL	0266		21-028(a) \ Container storage	Above Ground Material / Waste/Storage Yards and Pads	1998	1998		2003	2003			N		N
LANL	0267		21-028(b) \ Container storage	Above Ground Material						5/23/1991		Y	Approved	N

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				/ Waste/Storage Yards and Pads										
LANL	0268	R	21-028(c) \ Container storage Bldg 21-3	Above Ground Material / Waste/Storage Yards and Pads				2006	2006			N		N
LANL	0269		21-028(d) \ Container storage	Above Ground Material / Waste/Storage Yards and Pads						6/14/1996		Y	Pending	N
LANL	0270		21-028(e) \ Container storage	Above Ground Material / Waste/Storage Yards and Pads						6/14/1996		Y	Approved	N
LANL	0271		21-029 \ Soil contamination area	Spills and Leaks/Surface Spills						8/12/1996		N	Pending	N
LANL	0578		73-001(a) \ Landfill	Waste/Landfills	1998	1998		2005	2005			N		Y
LANL	0579		73-001(b) \ Surface disposal site	Waste/Miscellaneous Surface Debris	1998		9/30/1997	1997		9/30/1997		N		N
LANL	0580	R	73-001(c) \ Landfill	Waste/Landfills				2005	2005			N		N
LANL	0581		73-001(d) \ Landfill	Waste/Landfills	1998	1998		2005	2005			N		N
LANL	0582	R	73-002 \ Incinerator surface disposal	Waste/Miscellaneous Surface Debris				2005	2005			N		N
LANL	0583	R	73-003 \ Steam cleaning plant	Miscellaneous/Other				2006	2006			N		N
LANL	0584		73-004(a) \ Septic tank	Tanks/Septic Tanks						6/20/1996		N	Pending	N
LANL	0585		73-004(b) \ Septic tank	Tanks/Septic Tanks						9/30/1996		N	Pending	N
LANL	0586		73-004(c) \ Septic tank	Tanks/Septic Tanks			9/30/1997	2006		9/30/1997		N		N
LANL	0587		73-004(d) \ Septic tank	Tanks/Septic Tanks	1998		9/30/1997	1997		9/30/1997		N		N
LANL	0588		73-005 \ Surface disposal site	Waste/Miscellaneous Surface Debris	1999	1999		2006	2000			N		N

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LANL	0589		73-006 \ Airport building outfalls	Waste/Trenches / Outfalls				2006	1999			N		N
LANL	0599		C-19-001 \ Soil contamination	Spills and Leaks/Surface Spills			9/30/1997	1997		9/30/1997		N		N
LANL	0600	R	C-21-001 \ One-time spill Bldg 21-5	Spills and Leaks/Surface Spills				2006	2006			N		N
LANL	0601		C-21-002 \ Nn-intentional release area	Spills and Leaks/Surface Spills						5/23/1991		Y	Approved	N
LANL	0602		C-21-003 \ Nn-intentional release area	Spills and Leaks/Surface Spills						5/23/1991		Y	Approved	N
LANL	0603		C-21-004 \ Nn-intentional release area	Spills and Leaks/Surface Spills						5/23/1991		Y	Approved	N
LANL	0604		C-21-005 \ One-time spill	Spills and Leaks/Surface Spills	1998	1998		2006	2006			N		N
LANL	0605	R	C-21-006 \ Nn-intentional release area Bldg 21-2	Spills and Leaks/Surface Spills				2006	2006			N		N
LANL	0606		C-21-007 \ Nn-intentional release area	Spills and Leaks/Surface Spills	1998	1998	9/30/1998	2006	2006			N		N
LANL	0607		C-21-008 \ One-time spill	Spills and Leaks/Surface Spills						5/23/1991		Y	Approved	N
LANL	0608		C-21-009 \ One-time spill	Spills and Leaks/Surface Spills	1997	1997		2005	2005			N		N
LANL	0609		C-21-010 \ Systematic leak	Spills and Leaks/Surface Spills						5/23/1991		Y	Approved	N
LANL	0610		C-21-011 \ One-time spill	Spills and Leaks/Surface Spills						5/23/1991		Y	Approved	N
LANL	0611		C-21-012 \ One-time spill	Spills and Leaks/Surface Spills	1997	1997		2005	2005			N		N

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LANL	0612		C-21-013 \ Disposal pit	Above Ground Material / Waste/Debris Piles						5/23/1991		Y	Approved	N
LANL	0613		C-21-014 \ Warehouse	Buildings & Equipment/Other Buildings						5/23/1991		Y	Approved	N
LANL	0614		C-21-015 \ Building	Buildings & Equipment/Other Buildings						5/23/1991		Y	Approved	N
LANL	0615		C-21-016 \ Storage area	Above Ground Material / Waste/Storage Yards and Pads						5/23/1991		Y	Approved	N
LANL	0616		C-21-017 \ Storage area	Above Ground Material / Waste/Storage Yards and Pads						5/23/1991		Y	Approved	N
LANL	0617		C-21-018 \ Storage area	Above Ground Material / Waste/Storage Yards and Pads						5/23/1991		Y	Approved	N
LANL	0618		C-21-019 \ Storage area	Above Ground Material / Waste/Storage Yards and Pads						5/23/1991		Y	Approved	N
LANL	0619		C-21-020 \ Storage area	Above Ground Material / Waste/Storage Yards and Pads						5/23/1991		Y	Approved	N
LANL	0620		C-21-021 \ Storage area	Above Ground Material / Waste/Storage Yards and Pads						5/23/1991		Y	Approved	N
LANL	0621		C-21-022 \ Laboratory	Buildings & Equipment/Other Buildings						5/23/1991		Y	Approved	N
LANL	0622		C-21-023 \ Laboratory	Buildings &						5/23/1991		Y	Approved	N

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LANL	0623		C-21-024 \ Warehouse	Equipment/Other Buildings						5/23/1991		Y	Approved	N
LANL	0624		C-21-025 \ Building	Buildings & Equipment/Other Buildings						5/23/1991		Y	Approved	N
LANL	0625		C-21-026 \ Building	Buildings & Equipment/Other Buildings						5/23/1991		Y	Approved	N
LANL	0626		C-21-027 \ Machinery	Buildings & Equipment/Equipment						9/30/1995		N	Pending	N
LANL	0627		C-21-028 \ Tank	Tanks/Above Ground Storage Tanks						5/23/1991		Y	Approved	N
LANL	0628		C-21-029 \ Aboveground tank	Tanks/Above Ground Storage Tanks						5/23/1991		Y	Approved	N
LANL	0629		C-21-030 \ Aboveground tank	Tanks/Above Ground Storage Tanks						5/23/1991		Y	Approved	N
LANL	0630	R	C-21-031 \ Tank	Tanks/Above Ground Storage Tanks				2003	2003			N		N
LANL	0631	R	C-21-032 \ Machinery and tanks	Buildings & Equipment/Equipment				2003	2003			N		N
LANL	0632		C-21-033 \ One-time spill	Spills and Leaks/Surface Spills	1998	1998		2005	2005			N		N
LANL	0633		C-21-034 \ Tank	Tanks/Above Ground Storage Tanks	1998	1998		2005	2005			N		N
LANL	0634		C-21-035 \ Aboveground tank	Tanks/Above Ground Storage Tanks	1998	1998		2005	2005			N		N

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LANL	0635		C-21-036 \ Aboveground tank	Tanks/Above Ground Storage Tanks	1998	1998		2005	2005			N		N
LANL	0636		C-21-037 \ Aboveground tank	Tanks/Above Ground Storage Tanks	1998	1998		2005	2005			N		N
LANL	0658		C-31-001 \ Buildings	Buildings & Equipment/Other Buildings						5/1/1992		Y	Approved	N
LANL	0669		C-73-001 \ Underground tank	Tanks/Underground Storage Tanks						10/16/1992		Y	Pending	N
LANL	0670		C-73-002 \ Underground tank	Tanks/Underground Storage Tanks						10/16/1992		Y	Pending	N
LANL	0671		C-73-003 \ Underground tank	Tanks/Underground Storage Tanks						10/16/1992		Y	Pending	N
LANL	0672		C-73-004 \ Underground tank	Tanks/Underground Storage Tanks						10/16/1992		Y	Pending	N
LANL	1758		C-0-004 \ Bayo Canyon	Surface and Groundwater/Sediments				2004	2004			N		Y
LANL	1759		C-0-005 \ Pueblo Canyon	Surface and Groundwater/Sediments				2004	2004			N		Y
LANL	1760		C-0-006 \ Los Alamos Canyon	Surface and Groundwater/Sediments				2004	2004			N		Y
LANL	1761		C-0-007 \ Sandia Canyon	Surface and Groundwater/Sediments				2002	2002			N		Y
LANL	1763		C-0-009 \ Canada del Buey	Surface and Groundwater/Sediments				2002	2002			N		Y
LANL	1773		C-0-019 \ Chaquehui Canyon	Surface and Groundwater/Sediments				2002	2002			N		Y
LANL	2122		C-73-005(e) \ excavation (unlined septic	Above Ground Material	1998			1997		9/30/1997	1996	N		N

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			tank/outhouse trench)	/ Waste/Debris Piles										
LANL	2124		73-007 \ septic tank and drainlines	Above Ground Material / Waste/Debris Piles						9/30/1996	1996	N	Pending	N
LANL	2125		C-73-005(a) \ excavation (unlined septic tank/outhouse trench)	Above Ground Material / Waste/Debris Piles	1998		9/30/1997	1997		9/30/1997	1996	N		N
LANL	2126		C-73-005(b) \ excavation (unlined septic tank/outhouse trench)	Above Ground Material / Waste/Debris Piles	1998		9/30/1997	1997		9/30/1997	1996	N		N
LANL	2127		C-73-005(c) \ excavation (unlined septic tank/outhouse trench)	Above Ground Material / Waste/Debris Piles	1998		9/30/1997	1997		9/30/1997	1996	N		N
LANL	2128		C-73-005(d) \ excavation (unlined septic tank/outhouse trench)	Above Ground Material / Waste/Debris Piles	1998		9/30/1997	1997		9/30/1997	1996	N		N
LANL	2129		C-73-005(f) \ excavation (unlined septic tank/outhouse trench)	Above Ground Material / Waste/Debris Piles	1998		9/30/1997	1997		9/30/1997	1996	N		N
LANL	2132		0-033(b) \ Outlet piping 6th Street Warehouse	Buildings & Equipment/Other Buildings						9/30/1996	1996	N	Pending	N
LANL	2133		21-030 \ Sump	Above Ground Material / Waste/Debris Piles				2000	2004		1996	N		N
LANL	2177		C-0-021 \ DP Canyon	Surface and Groundwater/Sediments				2004	2004			N		N
LANL	3004		73-005-99 LA Airport 73-2	/							2000	N		N
LANL	3005		00-030(i) TA 00	/							2001	N		N
LANL	3006		00-030(i) TA 00	/							2001	N		N
LANL	3007		21-024(i) TA 21	/							2001	N		N

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LANL	2108		TA-21-146 \ Filter Bldg	Buildings & Equipment\Other Buildings	Non-Nuclear Facility									8/9/1996		N	Pending	N
LANL	2109		TA-21-21 \ Vault	Buildings & Equipment\Other Buildings	Non-Nuclear Facility							2003	2003			N		N
LANL	2110		TA-21-83 \Backflow Prevention Bldg	Buildings & Equipment\Other Buildings	Non-Nuclear Facility									8/29/1997		N		N
LANL	2140		TA-21-329 \ Fire Screen Plenum	Buildings & Equipment\Other Buildings	Non-Nuclear Facility			9/30/1996						8/8/1996	1992	N	Pending	N
LANL	2141		TA-21-324 \ Filter Building	Buildings & Equipment\Other Buildings	Non-Nuclear Facility			9/30/1996						8/8/1996	1992	N	Pending	N
LANL	2142		TA-21-305 \High Pressure Manifold	Buildings & Equipment\Other Buildings	Non-Nuclear Facility			9/30/1996						8/8/1996	1992	N	Pending	N
LANL	2152		TA-21-3(S) \ Laboratory	Buildings & Equipment\Other Buildings	Non-Nuclear Facility									9/30/1995		N		N
LANL	2153		TA21-3(N) \ Laboratory	Buildings & Equipment\Other Buildings	Non-Nuclear Facility									9/29/1996		N	Pending	N
LANL	2168		TA-21-86 \PRV Station/Shed	Buildings & Equipment\Other Buildings	Non-Nuclear Facility									8/29/1997		N		N
LANL	2169		TA-21-4(N) \Laboratory	Buildings & Equipment\Other Buildings	Non-Nuclear Facility									8/29/1997		N		N

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LANL	2170		TA-21-4(S) \Laboratory	Buildings & Equipment\Other Buildings	Non-Nuclear Facility									8/29/1997		N		N
LANL	2180		TA-21-1 \ Office Vault Building; Conc/1416	Above Ground Material / Waste\Debris Piles	Non-Nuclear Facility							2001	2001			N		N
LANL	2181		TA-21-2(N) \ Laboratory; Conc, Met/5700	Above Ground Material / Waste\Debris Piles	Non-Nuclear Facility							2007	2003			N		N
LANL	2182		TA-21-2(S) \ Laboratory; Conc, Met/5700	Above Ground Material / Waste\Debris Piles	Non-Nuclear Facility							2007	2003			N		N
LANL	2183		TA-21-5(N) \ Laboratory; Conc, Met/6700	Above Ground Material / Waste\Debris Piles	Non-Nuclear Facility							2000	2000			N		N
LANL	2184		TA-21-5(S) \ Laboratory; Conc, Met/6700	Above Ground Material / Waste\Debris Piles	Non-Nuclear Facility							2000	2000			N		N
LANL	2185		TA-21-14 \ Instrumentation; BLK/3000	Above Ground Material / Waste\Debris Piles	Non-Nuclear Facility							2004	2004			N		N
LANL	2186		TA-21-18 \ Passageway; TBD/1500	Above Ground Material / Waste\Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2187		TA-21-30 \ Paint Shop; Conc/1000	Above Ground Material / Waste\Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2188		TA-21-31 \ Electronics; Frame/4000	Above Ground Material / Waste\Debris Piles	Non-Nuclear Facility							2002	2002			N		N
LANL	2189		TA-21-46 \ Warehouse; Met/1000	Above Ground Material / Waste\Debris Piles	Non-Nuclear Facility							2007	2003			N		N
LANL	2190		TA-21-80 \ Backflow Prevention Building; TBD/25	Above Ground Material / Waste\Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2191		TA-21-88 \ Backflow Prevention Building; TBD/25	Above Ground Material / Waste\Debris Piles	Non-Nuclear Facility							2005	2005			N		N

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LANL	2192		TA-21-110 \ Acid Tank; TBD/250	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2193		TA-21-111 \ Acid Tank; TBD/450	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2194		TA-21-112 \ Acid Tank; TBD/450	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2195		TA-21-113 \ Acid Tank; TBD/450	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2196		TA-21-116 \ Equipment Warehouse/Conference Room	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2197		TA-21-144 \ Passageway; Wood Frame/272	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2198		TA-21-148 \ Electric Substation	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2199		TA-21-149 \ Corridor Structure; TBD/1720	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2200		TA-21-150 \ Processing; Conc/14,919	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2004	2004			N		N
LANL	2201		TA-21-193 \ Electric Substation; Conc Slab/TBD	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2202		TA-21-210 \ Pu Research Support Building; Conc/20,851	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2203		TA-21-212 \ Calcium Grinding Facility; Blk/455	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2007	2003			N		N
LANL	2204		TA-21-228 \ Storage; Stl/6161	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2205		TA-21-254 \ Guard House;	Above Ground Material	Non-Nuclear							2005	2005			N		N

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			Stl/100	/ Waste/Debris Piles	Facility													
LANL	2206		TA-21-257 \ Waste Disposal Bldg.; Stl/4229	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2004	2004			N		N
LANL	2207		TA-21-286 \ Storage; Stl/3578	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2002	2002			N		N
LANL	2208		TA-21-308 \ Electric Substation; Conc Slab/TBD	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2209		TA-21-309 \ Electric Substation; Conc Slab/TBD	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2210		TA-21-310 \ Telephone Substation; Conc Slab/TBD	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2211		TA-21-311 \ Telephone Substation; Conc Slab/TBD	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2212		TA-21-312 \ Corridor Structure; TBD/1528	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2006	2006			N		N
LANL	2213		TA-21-313 \ Corridor Structure;TBD/2580	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2006	2006			N		N
LANL	2214		TA-21-314 \ Corridor Structure; TBD/410	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2006	2006			N		N
LANL	2215		TA-21-315 \ Corridor Structure; TBD/2738	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2006	2006			N		N
LANL	2216		TA-21-328 \ Materials Receiving Building; Conc Blk/320	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2217		TA-21-335 \ Containment Vessel; TBD/125	Above Ground Material / Waste/Debris Piles	Non-Nuclear Facility							2005	2005			N		N
LANL	2218		TA-21-338 \ Electric	Above Ground Material	Non-Nuclear							2005	2005			N		N

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LANL	3003		TA-21-143 \Cooling Tower	Buildings & Equipment\Other Buildings	Non-Nuclear Facility										1995	N		N

Technology Needs

Site Need Code: AL-07-01-01-SC

Site Need Name: High Explosives (HE) & Barium (Ba) Remediation Of Soils, Surface Water And Groundwater

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellaneous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: A1-07-01-02-SC

Site Need Name: In-Situ Remediation of 25 Material Disposal Areas (MDAs)

Focus Area Work Package ID: SS-02

Focus Area Work Package: Barriers for Containmant and Control

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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Technology Needs

Site Need Code: AL-07-01-15-SC

Site Need Name: Cost-Effective Mechanism For Stabilization of Landfills

Focus Area Work Package ID: SS-03

Focus Area Work Package: Stabilization Technologies

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: AL-08-01-16-SC

Site Need Name: Cost Effective Technologies for Addressing TRU in Soils and Sediments

Focus Area Work Package ID: SS-07

Focus Area Work Package: Vadose Zone Treatment Systems

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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Technology Needs

Site Need Code: AL-09-01-15-DD

Site Need Name: Disposal & Recycle Technologies for Scrap Uranium Chips and Turnings

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellaneous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: AL-09-01-14-DD

Site Need Name: Quantitation of Tritium in Concrete Ruble from D&D Projects

Focus Area Work Package ID: DD-12

Focus Area Work Package: D&D of Weapons Components Fabrication Facilities

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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Technology Needs

Site Need Code: AL-09-01-13-DD

Site Need Name: On-Site Quantitation of Plutonium and Americium in Soil and Concrete Rubble from D&D Projects

Focus Area Work Package ID: DD-13

Focus Area Work Package: Oversized Metallic TRU Waste Disposition

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: AL-07-01-13-DD

Site Need Name: Decontamination of Difficult Access Interior Contamination

Focus Area Work Package ID: DD-07

Focus Area Work Package: Hot Cell Facilities and Laboratory Equipment D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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Technology Needs

Site Need Code: AL-07-01-12-DD

Site Need Name: Decontaminate and Decommission Radioactively Contaminated Facilities

Focus Area Work Package ID: DD-13

Focus Area Work Package: Oversized Metallic TRU Waste Disposition

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: AL-09-01-12-MW

Site Need Name: Decontamination and Volume Reduction of TRU and LLW Metals

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellaneous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: AL-09-01-01-SC

Site Need Name: Uranium, Metals and HE Remediation of Soils and Surface Waters at Firing Sites

Focus Area Work Package ID: SS-07

Focus Area Work Package: Vadose Zone Treatment Systems

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Albuquerque**

Site Summary Level: **Los Alamos National Laboratory**

Project **AL030 / Land Parcels Transfer at LANL**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0183**

Technology Needs

Site Need Code: AL-07-01-11-MW

Site Need Name: Waste Sorting and Characterization

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellaneous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: AL-09-01-03-SC

Site Need Name: Regulatory Approved Long Term Monitoring Techniques to Evaluate the Effectiveness of Material Disposal Area Engineered Covers

Focus Area Work Package ID: SS-11

Focus Area Work Package: Validation, Verification, & Long-Term Monitoring of Containment & Treatment

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Albuquerque**

Print Date: **3/9/2000**

Site Summary Level: **Los Alamos National Laboratory**

HQ ID: **0183**

Project **AL030 / Land Parcels Transfer at LANL**

Technology Needs

Site Need Code: AL-09-01-02-DD-S

Site Need Name: Radiological Air Monitoring Needs for Current D&D / ER Operations

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellaneous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: AL-09-01-03-SC-S

Site Need Name: Succession and Long-Term Performance of Landfill Covers

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellaneous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: AL-09-01-04-DD-S

Site Need Name: Methodology for Effective D&D of Large Environmental Sites

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellaneous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Dataset Name: **FY 1999 Planning Data**

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Date of Dataset: **9/20/1999**

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Albuquerque**

Site Summary Level: **Los Alamos National Laboratory**

Project **AL030 / Land Parcels Transfer at LANL**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0183**

Technology Needs

Site Need Code: AL-09-01-05-SC-S

Site Need Name: Decision Support Assistance for Remediation and Assessment Design

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellaneous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: AL-09-01-06-SC-S

Site Need Name: Issue of Scale in Flow Prediction and Contaminant Remediation in Porous Media

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellaneous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: AL-09-01-08-SC-S

Site Need Name: Differences Between Saturated and Unsaturated Systems

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellaneous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Dataset Name: **FY 1999 Planning Data**

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Project Baseline Summary Report

Data Source: EM CDB

Operations/Field Office: Albuquerque

Site Summary Level: Los Alamos National Laboratory

Project AL030 / Land Parcels Transfer at LANL

Report Number: GEN-01b

Print Date: 3/9/2000

HQ ID: 0183

Technology Needs

Site Need Code: AL-09-01-09-SC-S

Site Need Name: Quantifying Uncertainty in Predictions of Remediation Performance

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellaneous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: AL-09-01-10-SC-S

Site Need Name: Physics of Fracture Flow and Transport in the Vadose Zone

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellaneous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Dataset Name: FY 1999 Planning Data

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Project Baseline Summary Report

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Operations/Field Office: **Albuquerque**

Site Summary Level: **Los Alamos National Laboratory**

Project **AL030 / Land Parcels Transfer at LANL**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0183**

Technology Needs

Site Need Code: AL-09-01-11-SC-S

Site Need Name: Water Fluxes and Solute Transport in Arid and Semiarid Environments

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellaneous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: AL-09-01-14-SC-S

Site Need Name: Vadose Zone Flux Rates

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellaneous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: AL-09-01-15-SC-S

Site Need Name: Separation of Metals and Radionuclides from Uncontaminated Soils; Transport of Metals and Radionuclides in Sediments and Surface Alluvial Systems

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellaneous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

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Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Albuquerque**

Site Summary Level: **Los Alamos National Laboratory**

Project **AL030 / Land Parcels Transfer at LANL**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0183**

Technology Needs

Site Need Code: AL-09-01-16-Risk-S

Site Need Name: Extrapolation Bias and Uncertainty from using Biomarkers and Numerical Models to Predict Real Ecological Effects

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellaneous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate