
Contract 003CT0008-8L
Project No. 819592.01
July 2001

**Response to Request for Information
Pursuant to the New Mexico Hazardous Waste Act
and the Resource Conservation and Recovery Act,
Los Alamos National Laboratory
EPA ID No. 0890010515**

Prepared by:

*Los Alamos National Laboratory
Hazardous and Solid Waste Group (ESH-19)
Los Alamos, New Mexico 87545*



15937

**Response to Request for Information
Pursuant to the New Mexico Hazardous Waste Act
and the Resource Conservation and Recovery Act
Los Alamos National Laboratory
EPA ID NM 0890010515**

Introduction

The following information supplements the April 16, May 15, and June 18, 2001, 60-day responses by Los Alamos National Laboratory (LANL) to a Request for Information (RI) sent by the New Mexico Environment Department (NMED) on February 12, 2001. The full title of the RI is "Request for Information Pursuant to the New Mexico Hazardous Waste Act and the Resource Conservation and Recovery Act, Los Alamos National Laboratory, EPA ID NM 0890010515," officially received by LANL on February 16, 2001.

LANL has continued efforts to collect historical and other process-generation documentation from internal waste-generating organizations to supplement the information presented in the previous responses. As stated in those responses, proposed dates for submittal of supplemental data collected for the 60-day response are May 15, June 18, and July 15, 2001. This document comprises the July 15, 2001, response.

This document consists of supplemental responses, where additional information has been obtained for the 19 information requests contained in the RI. The submittal includes appendices, as referenced in the individual responses to the numbered information requests. NMED's original information requests are included in this document as italicized text for ease of review.

This submittal is the eleventh and final scheduled response addressing the information requested in the RI. The responses have contained two general types of information.

The first type included information submitted to respond to Information Request Nos. 12-17 addressing the corrective action sites managed by the LANL Environmental Restoration (ER) Project, as listed in Part 1 of Attachment A of the original RI. This information was presented in the 15-day response of March 1, 2001, subsequent submittals of March 16, April 2, April 16, May 3, June 1, and July 3, 2001, and in this response. As described in these submittals, the information has consisted of Category 1 data reported in documents published but not previously submitted to NMED, Category 2 electronic data from the LANL Facility for Information Management, Analysis, and Display database, and Category 3 data collected from other sources. Category 2 electronic data have also been validated during the submittal period.

The second type of information has been submitted to respond to Information Request Nos. 1-11. This includes available information regarding radioactive and mixed waste streams managed at LANL at any time. The information was presented in the 60-day response of April 16, 2001; subsequent submittals of May 15 and June 18, 2001; and in this response. As described in these submittals, the information has generally consisted of waste management organization data retrievals and documents for waste managed and documented since 1970, corrective action site investigation data for material disposal areas (MDA) containing waste managed prior to that time, and supplemental waste-generating organization information.

As previously discussed in the April 16, 2001, 60-day response, LANL has provided information in the RI responses regarding waste streams that are excluded from the statutory and regulatory definitions of solid waste, and so fall outside the Resource Conservation and Recovery Act (RCRA) and the implementing regulations of the New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20.4.1 NMAC), Subpart II, as revised June 14, 2000, incorporating the Code of Federal Regulations, Title 40 (40 CFR), Part 261. This has been done to meet the stated conditions of the February 12, 2001, RI; however, LANL continues to reserve its objection to the use of such data for the development of draft RCRA permit conditions.

Information Requests and Responses

1. *Please identify each radionuclide waste or waste stream, including mixed and non-mixed wastes, that is currently or has been at any time generated, treated, stored, disposed of, otherwise managed at, or transported to the LANL Facility, and that meets the statutory definition of "hazardous waste" in section 1004(5) of RCRA, 42 U.S.C. § 6903(5). (Please note that the statutory definition is broader than the regulatory definition.)*

Additional waste management information collected for Request No. 1 since the June 18, 2001, submittal is presented below.

As stated in the response to Request No. 1 in the June 18, 2001, submittal, waste management information is presented in the 1999 "Site-Wide Environmental Impact Statement for Continued Operation of the Los Alamos National Laboratory." A "Final Environmental Impact Statement for Los Alamos Scientific Laboratory Site, Los Alamos, New Mexico," was also prepared by the U.S. Department of Energy (DOE) in December 1979 (document number DOE/EIS-0018). The waste management section of this document focused on treatment, storage, and disposal facilities. The 1979 Environmental Impact Statement (EIS) presents a description of waste management facilities for both radioactive and hazardous wastes at the Laboratory during the late 1970s (Section 3.3.3, Waste Disposal), including a summary of the types and amounts of specific wastes managed. The Environmental Improvement Division received a copy of the EIS, as documented on the Distribution List (Page H-109 of the document).

Supplemental information on treatment of radioactive and mixed wastes at LANL and on recycling of potentially radioactive scrap metal is presented in the response to Request No. 8.

Supplemental information regarding storage of radioactive waste at LANL is presented in the response to Request No. 9.

Gian Bacigalupa (Hazardous and Solid Waste Group [ESH-19] Technical Staff Member [TSM]), Ray Hahn (Facility and Waste Operations Division Solid Waste Operations [FWO-SWO] Group Leader, and Paul Schumann (ER Project Team Leader) collected information used to prepare this response. Their address is P.O. Box 1663, Los Alamos, NM 87545.

Documents providing information used to prepare the response to Request No. 1 are identified in the text above.

2. *Please identify each radionuclide waste or waste stream, including mixed and non-mixed wastes, that is currently or has been at any time generated, treated, stored, disposed of, otherwise managed at, or transported to the LANL Facility, and that meets the following criteria: a) LANL claims the waste to be exempt from regulation as a solid waste under section 1004(27) of RCRA, 42 U.S.C. § 6903(27), because such waste meets the definition of source, special nuclear, or by-product material as defined by the Atomic Energy Act, 42 U.S.C. §§ 2011 et seq.; and b) the waste would meet the statutory definition of "hazardous waste" in section 1004(5) of RCRA, 42 U.S.C. § 6903(5), but for such exemption.*

A discussion on treatment of uranium chips and turnings waste is presented in the response to Request No. 8 herein. Information on storage and disposal of this waste stream was provided in the April 16, 2001, response to this RI.

Gian Bacigalupa (ESH-19 TSM) and Ray Hahn (FWO-SWO Group Leader) collected information used to prepare this response. Their address is P.O. Box 1663, Los Alamos, NM 87545.

3. *For each waste and waste stream identified in response to Request #1 and #2, please provide a detailed description of the radioactive, chemical, and physical properties of the waste. Include in your response a description of all radionuclides, all radioactive decay chains, and the half-lives of both the radionuclides and their daughter products.*

Descriptions of the radioactive, chemical, and physical properties of the wastes identified in the response to Request No. 1 are provided in the applicable responses to Request Nos. 6, 8, and 9 herein. Information that can be used to determine radioactive decay chains, half-lives, and daughter products can be found in the reference cited in the response to Request No. 3 in the April 16, 2001, response.

Gian Bacigalupa (ESH-19 TSM), Ray Hahn (FWO-SWO Group Leader), and Paul Schumann (ER Project Team Leader) collected information used to prepare this response. Their address is P.O. Box 1663, Los Alamos, NM 87545.

Documents providing information used to prepare the response to Request No. 3 are referenced in the text of the applicable responses to Request Nos. 6, 8, and 9 herein.

4. *For each waste and waste stream identified in response to Request #1 and #2, please state whether or not the waste exhibits any of the characteristics of a hazardous waste under 40 C.F.R. pt. 261, subpt. C:*
 - a. *Ignitability under 40 C.F.R. § 261.21;*
 - b. *Corrosivity under 40 C.F.R. § 261.22;*
 - c. *Reactivity under 40 C.F.R. § 261.23;*
 - d. *Toxicity under 40 C.F.R. § 261.24.*

Available information regarding the characteristics of the wastes identified in the response to Request No. 1 is provided in the applicable responses to Request Nos. 6, 8, and 9 herein.

5. *For each waste and waste stream identified in response to Request #1 and #2, please state whether or not the waste contains any hazardous constituents listed under 40 C.F.R. pt. 261, Appendix VIII and name the specific constituent or constituents.*

Available information regarding the hazardous constituents of the wastes identified in the response to Request No. 1 is provided in the applicable responses to Request Nos. 6, 8, and 9 herein.

6. *For each waste and waste stream identified in response to Request #1 and #2, please provide a detailed description of the generation of the waste, including the location of its generation, the date of its generation, the process or processes by which it was generated, and the volume of waste that was generated.*

Additional waste management information collected for Request No. 6 since the June 18, 2001, submittal is presented below.

Lead decontamination treatment processes have been used at LANL for reclamation (i.e., recycling) and maintenance, as stated in the April 16, 2001, response to Request No. 8. A lead decontamination trailer at Technical Area (TA)-50 was used to treat lead shielding that was surface-contaminated with radioactivity. As described in the

Background Volume of the "Compliance Order Site Treatment Plan, FFC Act" referenced in the April 16, 2001, response to Request No. 8, the treatment process removed the contamination and allowed reuse (recycling) of the shielding. A high-pressure jet of inert abrasive material, water, and air was used to remove the surface contamination. The spent slurry waste that was generated was dewatered and solidified, as discussed further in the response to Request No. 8 herein.

The uranium chips and turnings discussed in the response to Request No. 8 are generated primarily at TA-3, as presented in Section 2.8 of the "SWEIS Yearbook—1999" (LA-UR-00-5520, <http://lib-www.lanl.gov/pubs/LA-UR-5520.htm>). This information was also included in the TA-54 SWO Database, submitted as Appendix C in the April 16, 2001, RI response.

Gian Bacigalupa (ESH-19 TSM) and Ray Hahn (FWO-SWO Group Leader) collected information used to prepare this response. Their address is P.O. Box 1663, Los Alamos, NM 87545.

Documents providing information used to prepare the response to Request No. 6 are identified in the text above.

7. *For each waste and waste stream identified in response to Request #1 and #2 that was transported to the LANL Facility from elsewhere, please state the origin of the waste, the volume of the waste transported to the LANL Facility, broken down by shipment if possible, and the date or dates the waste was received at the LANL Facility.*

There has been no additional waste management information collected for Request No. 7 since the June 18, 2001, response.

8. *For each waste and waste stream identified in response to Request #1 and #2 that was treated at the LANL Facility, please provide a detailed description of the treatment, including the method or process of treatment, the effectiveness of the treatment in reducing the hazardous properties of the waste, and the volume of waste treated.*

Additional waste management information collected for Request No. 8 since the June 18, 2001, submittal is presented below.

The following information is described using the categories presented in the April 16, 2001, response for Request No. 8. These categories include:

- Non-RCRA radioactive waste treatment
- Treatment that is not subject to RCRA interim status or permitting requirements
- Mixed waste treatment

- **Maintenance activities that allow the continued use of potential radioactively-contaminated material.**

Uranium chips and turnings waste identified in the response to Request No. 11 in the April 16, 2001, response has been treated at LANL. This Atomic Energy Act (AEA)-exempt waste results from different metal machining processes at LANL, and has been generated sporadically for the past 10 to 15 years. Because of the pyrophoric nature of the material, special handling and disposal concerns must be addressed. The chips and turnings are typically stored in a suitable nonreactive liquid, such as diesel fuel or mineral oil, to fully encapsulate the material and keep it from reacting with air. To facilitate proper disposal, one treatment method successfully employed at LANL has been stabilization.

LANL has performed two major uranium chips and turnings stabilization campaigns. The first occurred in late Summer/early Fall of 1996, and resulted in the stabilization of approximately 220 drums of chips and turnings. More recently, a campaign was performed and completed in June 2001, and resulted in the stabilization of an additional 78 drums of chips and turnings. The stabilization process consists of opening the drum bung in a high-efficiency particulate air-filtered containment tent, pumping an inert gas (argon) into the headspace while continuously monitoring for explosive gas levels, attaching a drum collar to the drum and using a mixer unit to break up the chips and prepare for the additive, adding the additive (premixed Petroset II and OrganoPlex II) to the container, completing further mixing with the additives, and placing a protective cap on the top of the drum. The stabilized drums are allowed to cure for 48 hours, and then inspected to ensure that a final solid form is achieved. The final waste form is a homogeneous solid material. Because it is mixed and bonded with the additive, the uranium is no longer reactive.

An environmental pilot treatment study for remediation of 10 tons of uranium-contaminated soil from the E-F Firing Site at TA-15 started on July 2, 2001. The remediation activity is essentially soil washing. The soil is sluiced to separate large uranium aggregates, then heaped into containers and leached with a sodium bicarbonate solution (baking soda). The soil is then placed on a drying tray and the leachate is pumped into a settling tank, its pH adjusted to 6.5 using phosphoric acid, followed by passage through a container of apatite mineral. This process is designed to selectively remove the uranium by precipitation. The treatment process is estimated to take approximately six weeks. Because this treatment study just recently started, its effectiveness in reducing the uranium content of the soil has not been evaluated.

Operational burns involving depleted uranium (DU) are conducted in areas at TA-11 and TA-36 that are permitted under the Clean Air Act. The Open Burning Permit (for operational burns, Permit No. AQB.97.214) was issued in August 1997 and is effective through December 2002. Operational burns are conducted in accordance with the air quality permit, as required by 20.2.60 NMAC. LANL has also acquired burn permits for prescribed burns of DU-contaminated trees. At LANL, these burns have been

conducted at TA-15, TA-16, TA-36, and at other TAs, as needed. The most recent burn was conducted in the Spring of 2001. Some of these trees have been cut as a preventative measure against wildfires, and others have been cut as a result of the Cerro Grande Fire in 2000.

The spent abrasive mixed waste from the lead decontamination treatment process discussed in the response to Request No. 6 herein consisted of a slurry that contained toxicity characteristic concentrations of lead (i.e., greater than 5.0 milligrams per liter). This slurry was then dewatered and stabilized with concrete (i.e., solidified by cementation) to meet the standard for lead-contaminated waste in 40 CFR §268.41, Table CCWE, and render the final form a nonhazardous low-level radioactive waste. Additional information on this treatment process is presented in the "Waste Analysis Plan for Wastes from Lead Decontamination Operations," included herein as Appendix A. From April 1993 to October 1994, the amount of secondary waste generated and treated was 3.4 tons. From August to September 1995, the amount of secondary waste treated for subsequent disposal was approximately 1,080 kilograms. The treated wastes were subsequently disposed of as low-level waste at TA-54.

LANL recycles approximately 800 cubic meters or 425,000 pounds (lbs) of scrap metal from Radiological Control Areas (RCA) annually. All scrap metal from RCAs is handled as potentially radioactive until a radiological survey determines the level of radiological activity. The Laboratory policy has been to only release material for recycling if it has no additional radiation above detectable background levels. If not radioactive, the material is placed in a recycling bin with metals from non-radiological areas. Johnson Controls Northern New Mexico manages the metal recycling contract with a commercial recycling firm for the Laboratory. Radiological survey reports are maintained on these materials by date and area.

The material recycled varies depending on site activities in a given year. Little or no decontamination and decommissioning activities have occurred during the last few years, so the majority of materials is the result of facility upgrade and maintenance activities. Of the 425,000 lbs typically recycled each year, the following table represents the best estimate of the distribution of this material.

Quantity (lbs)	Percent	Type	Form	Recurring or 1 Time
300,000	70.6%	Steel	Sheet Metal Desks, Shelving, Storage Cabinets, Instrument Cabinets, etc.	Recurring
37,500	8.82%	Iron/Steel	Piping and Structural Steel	Recurring
18,750	4.41%	Aluminum	Sheet	Recurring
18,750	4.41%	Mixed	Misc. Scrap Debris	Recurring
50,000	11.76	Lead	Bricks and Sheet	Recurring

In July 2000, the Secretary of Energy placed a suspension on recycling of all metal from radiological areas and issued new guidance for the recycling of scrap metal once the suspension is lifted.

Samples of radioactive and mixed waste streams have been managed at LANL for many years for the purpose of analysis and characterization and to determine waste treatment feasibility (i.e., treatability studies). Samples used to determine the characteristics or composition of waste streams are exempted from regulation under 20.4.1 NMAC, Subparts II, III-VII, and IX, subject to the conditions of 20.4.1 NMAC, Subpart II, 261.4(d), when transported or stored for analysis. Treatability study samples are also exempt subject to the conditions of 20.4.1 NMAC, Subpart II, 261.4(e-f), which include a requirement to submit a yearly summary report (20.4.1 NMAC, Subpart II, 261.4(f)(9)). LANL prepares and submits these reports to the NMED Hazardous Waste Bureau by March 15 of each year.

Information on additional options for waste treatment at LANL is available in the "Waste Management Strategies for Los Alamos National Laboratory—1997" (LA-UR-97-4764, <http://lib-www.lanl.gov/la-pubs/00412794.pdf>). Some of this information may have been superseded since the document was published in 1997.

Gian Bacigalupa (ESH-19 TSM), Ray Hahn (FWO-SWO Group Leader), and Paul Schumann (ER Project Team Leader) collected information used to prepare this response. Their address is P.O. Box 1663, Los Alamos, NM 87545.

Documents providing information used to prepare the response to Request No. 8 are identified in the text above.

9. *For each waste and waste steam identified in response to Request #1 and #2 that was stored at the LANL Facility, please state the location of such storage at the LANL Facility, the method of storage, the volume of waste stored, and the dates during which each volume of such waste was stored at each such location.*

Additional waste management information collected for Request No. 9 since the June 18, 2001, submittal is presented below.

Liquid radioactive waste streams were stored at two potential release sites (PRS) located at TA-53, Structure Number 166. The first is PRS 53-002(a), which consists of the two north impoundments that operated from 1969 to 1994 and that are currently dry. Each of these impoundments has a liquid storage capacity of approximately 1.6 million gallons. PRS 53-002(b), the south impoundment, operated from 1985 to December 1998, and has a liquid storage capacity of approximately 2.5 million gallons. The south impoundment was allowed to dry out, and the dry sludge and Hypalon[®] liner were removed in July/August of 2000. Additional information previously submitted to the NMED regarding these impoundments is provided in the "Interim Status Closure

Plan; Surface Impoundments TA-53-166 Northeast and TA-53-166 Northwest," ER ID No. 12583, February 1, 1993; and in the "RFI Work Plan and Sampling and Analysis Plan for Potential Release Sites 53-002(a), 53-002(b) and Associated Piping and Drainages at TA 53," LA-UR-98-2547, ER ID No. 58841, June 1, 1998.

Gian Bacigalupa (ESH-19 TSM) and Paul Schumann (ER Project Team Leader) collected the information that was used to prepare this response. Their address is P.O. Box 1663, Los Alamos, NM 87545.

Documents providing information used to prepare the response to Request No. 9 are identified in the text above.

10. *For each waste and waste stream identified in response to Request #1 and #2 that was disposed of at the LANL Facility, please provide a detailed description of the disposal, including the method of disposal, the location of disposal, the dates of disposal, and the volume of waste disposed of at each such location.*

There has been no additional waste management information identified or collected for Request No. 10 since the May 15, 2001, submittal.

11. *For each waste and waste stream identified in response to Request #2, please state the basis for LANL's claim that the waste is exempt from regulation as a solid waste under RCRA because such waste is source, special nuclear, or by-product material as defined by the Atomic Energy Act.*

The uranium chips and turnings waste identified in response to Request No. 2 and discussed in the response to Request No. 8 is exempt from regulation as a solid waste under RCRA because this waste is source material, as defined by the AEA. This information was also provided in the April 16, 2001, response to this RI.

Gian Bacigalupa (ESH-19 TSM) and Ray Hahn (FWO-SWO Group Leader) collected information used to prepare this response. Their address is P.O. Box 1663, Los Alamos, NM 87545.

Documents providing information used to prepare the response to Request No. 11 are identified in the text above.

12. *For each Site listed in Part 1 of Attachment A, please identify each waste or waste stream that is currently or has been at any time disposed of at the Site.*

PRS 16-018, MDA-P, was a disposal area for rubble and debris generated by the burning of high explosives (HE), HE-contaminated equipment and material, barium nitrate sands, building materials, empty drums and bottles, and trash. MDA-P, located at TA 16, operated from the early 1950s until 1984. Information regarding solid, hazardous, mixed low-level, and low-level radioactive waste streams excavated from

PRS 16-018 is included in Appendix B herein. During implementation of closure activities at MDA-P, containers with unknown contents were retrieved and subsequently sent to a laboratory for analysis. A summary of these containers, sample numbers, analytical results, and the associated hazardous waste number(s) are provided in Appendix C herein.

A list of waste streams removed from the 108 PRSs identified in Part 1 of Attachment A of NMED's February 12, 2001, letter is included as Appendix B herein. This spreadsheet identifies waste streams generated as a result of corrective action activities from April 1994 to present that can be retrieved electronically on a PRS-specific basis. Information on the radioactive and mixed waste streams generated from the 108 PRSs was submitted previously as Appendix C in the April 16, 2001, response; however, the TA-54 SWO Database did not designate specific PRSs from which the waste streams were generated. As stated in the April 16, 2001, response, available information about waste streams remaining *in situ* in the unexcavated PRSs among the 108 listed PRSs is contained or referenced in published documents previously provided to the U.S. Environmental Protection Agency (EPA) and the NMED, including the RCRA Facility Assessment (RFA), the Solid Waste Management Units (SWMU) Report, and the Operable Unit (OU) RCRA Facility Investigation (RFI) workplans, or is supplemented by additional investigations and reported in subsequent RFI reports, voluntary corrective action (VCA) reports, and/or reports of other activities at LANL PRSs. A list of documents previously submitted to the NMED was provided in Appendix C of the April 2, 2001, response.

Paul Schumann (ER Project Team Leader) collected the information that was used to prepare this response. His address is P.O. Box 1663, Los Alamos, NM 87545.

Documents providing information used to prepare the response to Request No. 12 are identified in the text above.

13. *For each waste and waste stream identified in response to Request #12, please provide a detailed description of the radioactive, chemical, and physical properties of the waste. Include in your response a description of all radionuclides, all radioactive decay chains, and the half-lives of both the radionuclides and their daughter products.*

The available information about radioactive, physical, and chemical properties of the wastes and waste streams in the unexcavated PRSs included in the 108 listed PRSs discussed in response to Request No. 12 was provided to the EPA and the NMED in the RFA, the SWMU Report, the OU RFI workplans, and previous submittals to this RI responding to Request No. 18. The available information about radioactive, physical, and chemical properties for wastes and waste streams removed from the 108 PRSs is included in Appendices B and C herein.

Paul Schumann (ER Project Team Leader) collected the information that was used to prepare this response. His address is P.O. Box 1663, Los Alamos, NM 87545.

Documents providing information used to prepare the response to Request No. 13 are identified in the text above.

14. *For each waste and waste stream identified in response to Request #12, please state whether or not the waste is a listed hazardous waste under 40 C.F.R. pt. 261, subpt. D and indicate the specific listing or listings.*

The EPA Hazardous Waste Number(s) for wastes and waste streams removed from the 108 PRSs identified in the response to Request No. 12 that are listed hazardous wastes is provided in Appendix B herein or was submitted in previous responses to this RI. As stated in the April 16, 2001, response, available information about waste streams remaining *in situ* in the unexcavated PRSs among the 108 listed PRSs is contained or referenced in published documents previously provided to the EPA and the NMED, including the RFA, the SWMU Report, and the OU RFI workplans, or is supplemented by additional investigations and reported in subsequent RFI reports, VCA reports, and/or reports of other activities at LANL PRSs. A list of documents previously submitted to the NMED was provided in Appendix C of the April 2, 2001, response.

Paul Schumann (ER Project Team Leader) collected the information that was used to prepare this response. His address is P.O. Box 1663, Los Alamos, NM 87545.

Documents providing information used to prepare the response to Request No. 14 are identified in the text above.

15. *For each waste and waste stream identified in response to Request #12, please state whether or not the waste meets any of the characteristics of a hazardous waste under 40 C.F.R. pt. 261, subpt. C:*

- a. *Ignitability under 40 C.F.R. § 261.21;*
- b. *Corrosivity under 40 C.F.R. § 261.22;*
- c. *Reactivity under 40 C.F.R. § 261.23;*
- d. *Toxicity under 40 C.F.R. § 261.24.*

The EPA Hazardous Waste Number(s) for wastes or waste streams removed from the 108 PRSs that meet any of the characteristics of a hazardous waste is included in Appendices B and C herein, or was submitted in previous responses to this RI. As stated in the April 16, 2001, response, available information about waste streams remaining *in situ* in the unexcavated PRSs among the 108 listed PRSs is contained or

referenced in published documents previously provided to the EPA and the NMED, including the RFA, the SWMU Report, and the OU RFI workplans, or is supplemented by additional investigations and reported in subsequent RFI reports, VCA reports, and/or reports of other activities at LANL PRSs. A list of documents previously submitted to the NMED was provided in Appendix C of the April 2, 2001, response.

Paul Schumann (ER Project Team Leader) collected the information that was used to prepare this response. His address is P.O. Box 1663, Los Alamos, NM 87545.

Documents providing information used to prepare the response to Request No. 15 are identified in the text above.

16. *For each waste and waste stream identified in response to Request #12, please state whether or not the waste contains any hazardous constituents listed under 40 C.F.R. pt. 261, Appendix VIII and name the specific constituent or constituents.*

Appendix VIII hazardous constituents reasonably expected to be present for wastes and waste streams removed from the 108 PRSs are presented in Appendix C herein or were discussed in previous responses to this RI. As stated in the response to Request No. 5 in the April 16, 2001, submittal, the data available in the TA-54 SWO Database provided in Appendix C of that submittal do not contain complete information regarding hazardous constituents identified in 20.4.1 NMAC, Subpart II, Part 261, Appendix VIII. The available information about whether the waste and waste stream *in situ* in unexcavated LANL PRSs contained Appendix VIII hazardous constituents at the time of initial disposal was provided to the EPA and the NMED in the RFA, the SWMU Report, and OU RFI workplans, unless these data have since been supplemented by additional investigations and reported in subsequent RFI reports, VCA reports, and/or reports of other activities at LANL PRSs. A list of documents previously submitted to the NMED was provided in Appendix C of the April 2, 2001, response.

Paul Schumann (ER Project Team Leader) collected the information that was used to prepare this response. His address is P.O. Box 1663, Los Alamos, NM 87545.

Documents providing information used to prepare the response to Request No. 16 are identified in the text above.

17. *For each waste and waste steam identified in response to Request #12, please provide a detailed description of the disposal, including the method of disposal, the location of disposal, the dates of disposal, and the volume of waste disposed of at each such location.*

Information regarding disposal of wastes and waste streams removed from the 108 PRSs is presented in Appendices B and C herein, or was provided in previous responses to this RI. The available information about the initial disposal of waste and

waste streams *in situ* in unexcavated LANL PRSs was provided to the EPA and the NMED in the RFA, the SWMU Report, and OU RFI workplans, unless these data have since been supplemented by additional investigations and reported in subsequent RFI reports, VCA reports, and/or reports of other activities at LANL PRSs. A list of documents previously submitted to the NMED was provided in Appendix C of the April 2, 2001, response.

Paul Schumann (ER Project Team Leader) collected the information that was used to prepare this response. His address is P.O. Box 1663, Los Alamos, NM 87545.

Documents providing information used to prepare the response to Request No. 17 are identified in the text above.

20. *For each Request #1 through #19, inclusive, identify each and every person who provided information that was used to prepare the response. Identify each such person by name, title or job description, employer, and current or last known address.*

As discussed in the previous responses, numerous sources of information were used to prepare this response. A responsible individual (or individuals) who collected data and prepared the response has been identified for the appropriate portion of the response for each numbered request. If necessary, these individuals can provide further details regarding the preparation of this response. Title or job description, employer, and current or last known addresses for these individuals are also provided in each numbered request, in accordance with Instruction No. 7 of the RI.

21. *For each Request #1 through #19, inclusive, identify each and every document that provided information that was used to prepare your response. Identify each such document by type of document, title or description, author, and date.*

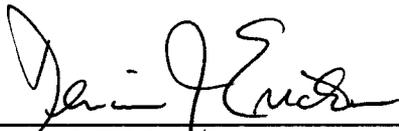
Each and every document that provided information used to prepare responses are identified in the corresponding responses to the numbered request, in accordance with Instruction No. 7 of the RI. The document type, title or description, author, and document date are also provided in the numbered request, per Instruction No. 7.

ATTACHMENT A**PART 1**

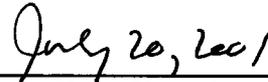
PRS Name	TA	SWMU Number
MDA-A	21	21-014
MDA-B	21	21-015
MDA-C	50	50-009
MDA-D	33	33-003(a)-99
MDA-E	33	33-001(a)-99
MDA-F	6	6-007(a)-99
MDA-K	33	33-002(a)-99
MDA-M	9	9-013
MDA-N	15	15-007(a)
MDA-P	16	16-018
MDA-Q	8	8-006(a)
MDA-R	16	16-019
MDA-S	11	11-009
MDA-T	21	21-016(a)-99
MDA-U	21	21-017(a)-99
MDA-V	21	21-018(a)-99
MDA-W	35	35-001
MDA-X	35	35-002
MDA-Y	39	39-001(b)
MDA-Z	15	15-007(b)
MDA-AA	36	36-001
MDA-AB	49	49-001(a-g)
90's Line	16	16-008(a)
Firing Sites	39	39-004(a-e), 39-008
Firing Sites	15	15-004(f); 15-006(a, c, d); 15-008(a)
Townsite PRS's	0, 1	0-010(b), 1-001(a-w), 1-002, 1-003(a-e)
Outfall	21	21-011(k)
Surface Impoundments	35	35-003(d, r), 35-010(a-e)
Outfalls	46	46-004(g, h, m, q, s, u, v, x, y, z, a2, b2, c2)
Bayo Canyon Sites	10	10-003(a-o), 10-007
Fish Ladder	16	16-003(o)

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



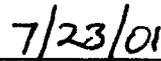
Dennis J. Erickson
Division Director for Environment, Safety, and
Health Division
Los Alamos National Laboratory
Operator



Date Signed



Joseph C. Vozella
Assistant Area Manager, Los Alamos Area Office
U.S. Department of Energy
Albuquerque Operations
Owner/Operator



Date Signed

APPENDIX A

**WASTE ANALYSIS PLAN FOR WASTES FROM LEAD
DECONTAMINATION OPERATIONS**



Department of Energy
Los Alamos Area Office
Albuquerque Operations Office
Los Alamos, New Mexico 87544

OCT 13 1994

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Coby Muckelroy, Program Manager
RCRA Enforcement Program
Hazardous and Radioactive Materials
Bureau
New Mexico Environment Department
525 Camino de los Marquez
P. O. Box 26110
Santa Fe, New Mexico 87502

Dear Mr. Muckelroy:

Subject: Waste Analysis Plan and Notification of Waste Generator
Treatment: Lead Decontamination Trailer

Pursuant to the land disposal restrictions in 40 CFR §§ 268.7(a)(4) and 268.9(d), the Department of Energy (DOE) and the University of California have developed the enclosed waste analysis plan for the decontamination of lead bricks and shielding by the lead decontamination trailer located at Los Alamos National Laboratory (LANL), Technical Area 50. The lead decontamination trailer removes radionuclides from the surface of lead bricks and shielding. In turn, the resulting decontaminated lead is placed back in use by LANL. Abrasive particles are used to physically remove the radionuclides from the surface of the lead. In time, as the particles lose their effectiveness, they are replaced with fresh abrasive. The resulting spent abrasive consists of a slurry that contains toxicity characteristic concentrations of lead (i.e., greater than 5.0 mg/l).

The resulting lead is then stabilized with concrete to render the final form a non-hazardous, low-level radioactive waste. This treatment meets the standard for lead contaminated waste in 40 CFR §268.41, Table CCWE. Confirmation of appropriate treatment has been demonstrated in both bench top and process generated lead contaminated slurry. Because the lead decontamination process includes the generation and subsequent treatment of mixed waste in a container, DOE and LANL are required to send a notification to the New Mexico Environment Department. This letter serves as the notification required by the land disposal restrictions.

Coby Muckelroy

2

If you have any questions regarding this notification, please contact Jon Mack of my staff at (505) 665-5026.

Sincerely,

**ORIGINAL SIGNED BY
JOSEPH C. VOZELLA**

Joseph C. Vozella
Acting Assistant Area Manager
Office of Environment and
Projects

LAAMEP:9JM-100

Enclosure

bcc w/enclosure:

J. Mack, AAMEP, LAO
J. Corpion, ESH-19, LANL,
MS-K498
A. Barr, ESH-19, LANL,
MS-K498
M. Romero, CST-7, LANL,
MS-E517
J. Rochelle, LC/GL, LANL,
MS-A187
HSWS File (94-0358-1),
LANL, MS-K498

WASTE ANALYSIS PLAN FOR WASTES FROM LEAD DECONTAMINATION OPERATIONS

1.0 INTRODUCTION

This waste analysis plan (WAP) documents the methodologies used to treat mixed waste generated from radioactive lead decontamination activities conducted in Technical Area 50 (TA-50), Building 185, at the Los Alamos National Laboratory (LANL). The treatment must meet the treatment standards identified at 40 CFR § 268.41 for lead contaminated wastes. Mixed waste treated at this site is generated from decontamination operations for lead shielding that is returned to service within LANL.

2.0 SCOPE

This plan meets the requirements for developing a written waste analysis plan that describes operations to be carried out to comply with standards for treating prohibited waste in tanks or containers as established at 40 CFR § 268.7(a)(4). This plan is not a procedure for establishing safety nor does it provide detailed instruction for treatment or sampling operations.

3.0 WASTE TREATMENT, SAMPLING, AND ANALYSIS

This section meets the intent of 40 CFR § 268.7(a)(4)(i), which states,

"The waste analysis plan must be based on a detailed chemical and physical analysis of a representative sample of the prohibited waste(s) being treated, and contain all information necessary to treat the waste(s) in accordance with the requirements of this part, including the selected testing frequency."

Section 3.1 provides a description of the lead decontamination slurry waste stream, section 3.2 describes the process used to meet the treatment standard for lead, section 3.3 identifies the method used to obtain samples of the waste and treatment residues, section 3.4 provides the rationale for sampling frequency, and section 3.5 identifies the analytical parameters performed on waste and treatment residue samples.

3.1 Waste Stream Description

Mixed waste contains both a hazardous waste component, as defined and regulated by the Resource Conservation and Recovery Act (RCRA) at 40 CFR Part 261, and a radioactive component as defined by the Atomic Energy Act (AEA). The abrasive slurry generated from the decontamination of lead shielding contains lead particles, which are both toxicity characteristic hazardous waste and radioactively contaminated.

Lead shielding is decontaminated at TA-50 by removing a superficial layer of the lead, which is contaminated with removable particulate radionuclides. The layer is removed by applying a mixture of alumina with water and air applied to the contaminated surface under 60 psi pressure. The slurry of abrasive and water combined with lead particles is collected in a sump. A pump sends the slurry mixture back to a spray gun, thus continuously recycling the slurry.

The lead decontamination slurry is composed of alumina, water, and lead particles contaminated with radionuclides. The slurry is replaced when its' abrasive action is reduced or the total lead concentration in the rinse water approaches 5mg/L. Early decontamination tests were conducted showing that the slurry should be replaced after five drums of lead are processed. When the slurry is replaced the old slurry is separated from the rinse water using a cyclone separator. The rinse water is collected and analyzed for total lead before being sent for treatment at the Radioactive Liquid Waste Treatment Facility.

The source stock for the decontamination process is lead brick used for radiological shielding. The lead used for shielding is in an elemental form as a metal and is not part of any process utilizing chemicals regulated by the RCRA. The decontamination process (described above) does not require or utilize any regulated constituents that would contribute to the hazardous nature of the waste stream. Based on knowledge of process, lead is the only known constituent requiring treatment under 40 CFR § 268.

3.2 Waste Treatment Process

The lead decontamination slurry waste is hazardous because it contains lead (a toxicity characteristic metal) in concentrations above the regulatory limit (5.0 mg/L) established at 40 CFR § 261.24. The 5.0 mg/L limit is the same as the concentration-based treatment standard for waste extracts established for lead at 40 CFR § 268.41.

Stabilization is the treatment used to achieve concentration-based treatment standards established at 40 CFR § 268.41. Stabilization is defined at 40 CFR §268.42, Table 1, as:

"Stabilization with the following reagents (or waste reagents) or combinations of reagents: (1) Portland cement, or (2) lime/pozzolans (e.g., fly ash and cement kiln dust)-this does not preclude the addition of reagents... designed to enhance the set/cure time and/or compressive strength, or to overall reduce the leachability of the metal or inorganic."

The Laboratory has developed a cementation process consistent with this treatment definition for the lead decontamination slurry waste. The treatment process renders the slurry a non-hazardous waste by removing the toxicity characteristic as determined using TCLP. The treatment also renders the waste acceptable for land disposal as allowed at 40 CFR § 268.40(a).

Replacement of the slurry results in the generation of four to five gallons of slurry waste. An air driven paddle mixer is used to mix the slurry with 200 pounds of "Quick-Crete" brand portland-based concrete and six gallons of polyvinyl alcohol (PVA) liquid solution in a 30 gallon DOT rated metal drum. The PVA solution is used to avoid trapping moisture within the concrete matrix. This moisture can "sweat" out of the solidified waste resulting in the accumulation of moisture within the waste container. Once mixing is complete the treatment mixture is left to cure in the disposal drum. The mixture has been formulated to ensure the production of a free-standing monolith resistant to cracking and flaking.

3.3 Waste Sampling Procedure

The slurry waste is sampled and analyzed for total lead and screened for radioactivity prior to treatment. Total lead concentration in the pre-treatment slurry samples are monitored to ensure that the stabilization treatment will be effective.

Once the slurry has been mixed with the stabilizing media, a sample of the treated waste (200 grams or more) is collected using a stainless steel spoon and placed in a petri dish. Post-treatment sampling is conducted to verify that treated wastes meet the treatment standards for lead, which renders the waste non-hazardous.

3.4 Waste Sampling Frequency

Both the slurry and the stabilized waste are currently sampled with each batch of slurry treated. This sampling frequency will be maintained until a 95% statistical confidence level is established verifying that the treatment process meets regulatory requirements. Once these data have been validated the sampling frequency for the treated waste will be reduced to one sample for every 20 batches treated.

3.5 Waste Analytical Methods

Analyses performed by CST-9 on the pre-treated slurry include: lead (SW-846, methods 6010/6020) and an alpha, beta, and gamma screen (WR-150,¹ gas proportional counting). Analyses performed on the treated waste include: Toxicity Characteristic Leaching Procedure (TCLP) (SW-846, method 1311), lead (SW-846, methods 6010/6020), and alpha, beta, and gamma screen (WR-150,¹ gas proportional counting).

¹ CST-9 Analytical Methods Manual, Los Alamos National Laboratory, 1994

APPENDIX B

**ER-GENERATED WASTE STREAMS FOR THE
108 POTENTIAL RELEASE SITES**

Hard copies of this document were provided to
the New Mexico Environment Department.

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

WASTE STREAM ID	WASTE STREAM ID	WASTE STREAM ID	RAD CAT CD	NCHA CD	FINAL CLASSIF	WORK	RCRA CODE	DATE	WEIGHT (kg)	DATE	DESCRIPTION	LOCATION	
00-010(b)	00-010(b)												
		NONE REPORTED											
01-001(a)	01-001(a)												
		NONE REPORTED											
01-001(b)	01-001(b)												
		NONE REPORTED											
01-001(c)	01-001(c)												
		NONE REPORTED											
01-001(d)	01-001(d)												
		NONE REPORTED											
01-001(e)	01-001(e)												
		NONE REPORTED											
01-001(f)	01-001(f)	22122	LLR	NHCW	Low Level Radioactive	3001274		17.05	14,288.40	9/22/1995	CS137, 2.25E-06; PU238, 6.12E-07; PU239, 1.29E-05; U234, 1.00E-03; U235, 4.20E-05; U238, 9.10E-04; CS137, 2.25E-06; PU238, 6.12E-07; PU239, 1.29E-05; U234, 1.00E-03; U235, 4.20E-05; U238, 9.10E-04; CS137, 2.25E-06; PU238, 6.12E-07; PU239, 1.29E-05;	HILLSIDE 138: B-25 BOXES CONTAINING BAGGED SOIL & ORGANIC MATERIAL GENERATED DURING ER PROJECT VCA (REMEDATION) FIELD ACTIVITIES. SAMPLE RESULTS FROM THE PREVIOUS SITE INVESTIGATION ARE USED TO CHARACTERIZE THIS WASTE STREAM.	LANL TA-54 Area G Pit 38
01-001(g)	01-001(g)												
		NONE REPORTED											

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

WASTE STREAM NO.	WPP NO.	RAD. CAT. CD.	NCR. CAT. CD.	FINAL CLASSIF.	WDR	RCF CODE	QTY	WEIGHT (kg)	DATE DEPOSITED	RELEASE TYPE	DESCRIPTION	STATE
01-001(s)	24713	NON	NHCW	NON-HAZARDOUS WASTE	3003446	NONE	2.65	2,540.16	10/8/1996		WESTERN SANITARY WASTE LINE: BRICKS AND CONCRETE DEBRIS FROM 1994 REMOVAL OF MANHOLE ON OLD WESTERN SANITARY WASTE LINE. BASED ON PROCESS KNOWLEDGE OF LOCATION OF MANHOLE WITH RESPECT TO CONTAMINANTS IN WASTE LINE AND RESULTS FROM GROSS ALPHA, BETA, GAMMA ANALYSES.	RES, Colorado
01-001(s)	20982	NON	NHCW	NON-HAZARDOUS WASTE	3001551	NONE	0.34	90.72	11/3/1995		TWO 55 GAL DRUMS CONTAINING THE FOLLOWING TYPES OF MATERIAL: PLASTIC SCOOPS, TAPE, PAPER TOWELS, EQUIPMENT RELEASE SWIPES, LATEX GLOVES, KLEENGAURD COVERALLS, ZIPLOCK BAGS, COTTON GLOVES, LATEX BOOTIES, 6-MIL PLASTIC SHEETS, BRUSHES AND PLASTIC BUCKETS.	CWMI - Henderson, CO
01-001(s)	21219	NON	NHCW	NON-HAZARDOUS WASTE	3001551	NONE	0.34	90.72	11/3/1995		TWO DRUMS OF PPE SAMPLING EQUIPMENT AND PLASTIC GENERATED DURING ER PROJECT RFI FIELD ACTIVITIES. THE ATTACHED ANALYSIS RESULTS ARE FROM SITE CHARACTERIZATION SAMPLES COLLECTED FROM BOREHOLES DRILLED TO LOCATE A	CWMI - Henderson, CO
01-001(s)	21637	NON	NHCW	NON-HAZARDOUS WASTE	3001544	NONE	1.87	424.12	11/3/1995		ELEVEN DRUMS OF PPE, PLASTIC, & DISPOSABLE SAMPLING EQUIPMENT GENERATED DURING WASTE LINE TRENCHING/EXCAVATION CONDUCTED AS PART OF ER PROJECT RFI FIELD ACTIVITIES.	CWMI - Henderson, CO
01-001(s)	21221	NON	NHCW	NON-HAZARDOUS WASTE	3001551	NONE	0.17	45.36	11/3/1995		ONE DRUM OF PPE SAMPLING EQUIPMENT & PLASTIC GENERATED DURING ER PROJECT RFI FIELD ACTIVITIES.	CWMI - Henderson, CO
01-001(s)	21647	NON	NHCW	NON-HAZARDOUS WASTE	3001548; 3001546; 3001547	NONE	7.83	18,779.04	11/3/1995; 11/3/1995; 11/3/1995		FIFTY-SEVEN DRUMS OF SOIL/TUFF GENERATED FROM WASTE LINE EXCAVATION/TRENCHING CONDUCTED AS PART OF ER PROJECT RFI FIELD ACTIVITIES.	Colorado Springfield Landfill
01-001(s)	24712	NON	NHCW	NON-HAZARDOUS WASTE	3003442	NONE	1.32	254.02	10/8/1996		PPE AND PLASTIC FROM WESTERN SANITARY WASTE LINE PROJECT INVOLVING REMOVAL OF OLD MANHOLE. PPE/PLASTIC IS NOT ASSOCIATED WITH A RADIOLOGICAL SITE AND DOES NOT HAVE MORE THAN TRACE AMOUNTS OF BRICK AND DEBRIS FROM MANHOLE.	RES, Colorado

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

FAIR FRS NO	WASTE NO	RAD CAT CD	RCRA CAT CD	WASTE CLASS	QTY VOL	RCRA CODE	DATE (MM)	WEIGHT (KG)	DATE OPENED	Rad. Cont. LIMITS	DESCRIPTION	RECIPIENT
01-001(s), 01-001(u)	20787	LLR	HAZW	MIXED LOW LEVEL RADIOACTIVE WASTE	3000565	F005	3.57	5,057.64	5/12/1995	K40, 3.00E-11; PU239, 3.00E-12; RA226, 2.00E-12; TH230, 2.00E-12; TH232, 2.00E-12; U234, 5.00E-12; U238, 4.00E-12; K40, 2.00E-11; PU239, 8.00E-13; RA226, 6.00E-13; TH232, 7.00E-13; K40, 3.00E-11; PU239, 1.00E-12; RA226, 2.00E-12; TH230, 1.00E-12; TH232	VITRIFIED CLAY PIPE REMOVED FROM WESTERN SANITARY WASTE LINE LOCATION 1A DURING RFI SEARCH FOR RELEASES. UPSTREAM MANHOLE 53 WAS OPEN TO THE ENVIRONMENT THROUGH HOLES IN LID FOR ABOUT A DECADE BEFORE BEING COVERED BY SEVERAL FEET OF FILL.	Envirocare of Utah, Clive UT
01-001(s), 01-001(u)	20973	LLR	HAZW	MIXED LOW LEVEL RADIOACTIVE WASTE	3000627	F005	1.22	1,202.04	6/5/1995	PU239, 7.00E-13	RFI WORK AT LOCATION B OF THE WESTERN SANITARY WASTE LINE GENERATED SECTIONS OF SEWER PIPE WASTE- VCP AND CAST IRON PROFILED HERE AND OTHER WASTE.	Envirocare of Utah, Clive UT
01-001(t)	01-001(t)	NONE REPORTED										
01-001(u)	01-001(u)											
01-001(u), 01-001(s)	20787	LLR	HAZW	MIXED LOW LEVEL RADIOACTIVE WASTE	3000565	F005	3.57	5,057.64	5/12/1995	K40, 3.00E-11; PU239, 3.00E-12; RA226, 2.00E-12; TH230, 2.00E-12; TH232, 2.00E-12; U234, 5.00E-12; U238, 4.00E-12; K40, 2.00E-11; PU239, 8.00E-13; RA226, 6.00E-13; TH232, 7.00E-13; K40, 3.00E-11; PU239, 1.00E-12; RA226, 2.00E-12; TH230, 1.00E-12; TH232	VITRIFIED CLAY PIPE REMOVED FROM WESTERN SANITARY WASTE LINE LOCATION 1A DURING RFI SEARCH FOR RELEASES.	Envirocare of Utah, Clive UT
01-001(u), 01-001(s)	20973	LLR	HAZW	MIXED LOW LEVEL RADIOACTIVE WASTE	3000627	F005	1.22	1,202.04	6/5/1995	PU239, 7.00E-13	RFI WORK AT LOCATION B OF THE WESTERN SANITARY WASTE LINE GENERATED SECTIONS OF SEWER PIPE WASTE- VCP AND CAST IRON PROFILED HERE AND OTHER WASTE.	Envirocare of Utah, Clive UT
01-001(v)	01-001(v)	NONE REPORTED										
01-001(w)	01-001(w)	NONE REPORTED										
01-002	01-002	NONE REPORTED										
01-002	01-002(a)	NONE REPORTED										

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

UIC	UIC PERS. NO.	WPF NO.	RAD. CAT. (CD)	RCRA CAT. (CD)	FINAL CLASSIF.	WDR	RCRA CODES	VOLUME (m ³)	WEIGHT (kg)	DATE DIS. REQUEST SIGNED	RAD. CONCEN. CURVES	PROCESS	
01-002	01-002(a)-00	NONE REPORTED											
01-002	01-002(b)	NONE REPORTED											
01-003(a)	01-003(a)	NONE REPORTED											
01-003(b)	01-003(b)	NONE REPORTED											
01-003(c)	01-003(c)	NONE REPORTED											
01-003(d)	01-003(d)	22127	NON	HAZW	HAZARDOUS WASTE	3001340	D007, D008	2.41	3,764.88	10/10/1995		SOIL AND DRIED PAINT REMOVED FROM SWMU 1-003(D) DURING REMEDIATION ACTIVITIES AT SITE.	CWMI - Henderson, CO
01-003(e)	01-003(e)	NONE REPORTED											
06-007(a)-99	06-005	NONE REPORTED											
06-007(a)-99	06-007(a)	NONE REPORTED											
06-007(a)-99	06-007(a)-99	NONE REPORTED											
06-007(a)-99	06-007(b)	NONE REPORTED											
06-007(a)-99	06-007(c)	NONE REPORTED											
06-007(a)-99	06-007(d)	NONE REPORTED											
06-007(a)-99	06-007(e)	NONE REPORTED											
08-006(a)	08-006(a)	NONE REPORTED											
09-013	09-013												

Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites

DATE	WASTE STREAM ID	WASTE CLASS	WASTE CODE	WASTE DESCRIPTION	WASTE QUANTITY	WASTE TYPE	WASTE WEIGHT	WASTE VOLUME	WASTE DATE	WASTE LOCATION	WASTE RELEASE SITE	
09-013	23247	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3002124		55.05	32,659.20	2/28/1996	AC228, 1.72E-05; BI214, 1.18E-05; CS137, 3.44E-06; K40, 1.75E-04; PB212, 1.07E-05; PB214, 6.47E-06; AC228, 1.72E-05; BI214, 1.18E-05; CS137, 3.44E-06; K40, 1.75E-04; PB212, 1.07E-05; PB214, 6.47E-06; AC228, 1.72E-05; BI214, 1.18E-05; CS137, 3.44E-06; K40, 1.75E-04; PB212, 1.07E-05; PB214, 6.47E-06; AC228, 1.72E-05; BI214, 1.18E-05; CS137, 3.44E-06; K4	SOIL WITH RESIDUAL WOOD, GLASS, CONCRETE AND METAL FROM CELLS 58,59,86,87,72,73 AND 89 (PILES W,V).	LANL TA-54 Area G Pit 37
09-013	23289	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3002169		26.90	15,876.00	3/11/1996	AC228, 2.82E-06; BA140, 4.10E-07; BI214, 2.14E-06; CS137, 8.22E-07; K40, 3.36E-05; PB212, 2.42E-06; PB214, 2.62E-06; RA226, 2.22E-05; AC228, 2.82E-06; BA140, 4.10E-07; BI214, 2.14E-06; CS137, 8.22E-07; K40, 3.36E-05; PB212, 2.42E-06; PB214, 2.62E-06; RA	SOIL WITH DETENATOR CABLES, SCRAP METAL, CONCRETE FROM CELLS 14,22,26,45,78 AND 78 A.	LANL TA-54 Area G Pit 37
09-013	23246	LLR	NHCW	LOW LEVEL RADIOACTIVE ASBESTOS WASTE	3002150; 3002171; 3002149		81.25	73,472.91	3/4/1996; 3/11/1996; 3/4/1996	AC228, 1.46E-07; BI211, 1.09E-06; BI214, 2.27E-07; CS137, 1.68E-07; K40, 2.62E-06; PB212, 2.00E-07; PB214, 1.27E-07; RA226, 8.03E-07; AC228, 1.46E-07; BI211, 1.09E-06; BI214, 2.27E-07; CS137, 1.68E-07; K40, 2.62E-06; PB212, 2.00E-07; PB214, 1.27E-07; RA	SOIL WITH RESIDUAL WOOD, GLASS, CONCRETE, METAL AND ASBESTOS FROM CELLS 103,104,117,118,119,120,121,130 (PILES G,H,I)	LANL TA-54 Area G Pit 31
09-013	22923	NON	NHCW	NON-HAZARDOUS WASTE	3001889	NONE	80.00	72,574.78	1/18/1996		SOIL WITH RESIDUAL WOOD, GLASS, CONCRETE AND METAL FROM PILES Y, Z (CELLS 41,42 AND 43).	CWMI - Kettleman, CA
09-013	22931	NON	HAZW	HAZARDOUS WASTE	3001888	D008	48.00	43,544.87	1/18/1996		SOIL WITH RESIDUAL WOOD, GLASS, CONCRETE AND METAL FROM PILES U,X,Y (CELLS 53,54,55,56,57,67,71,85).	CWMI - Kettleman, CA
09-013	22927	NON	NHCW	NON-HAZARDOUS WASTE	3001906	NONE	208.00	188,694.44	1/23/1996		SOIL, WITH RESIDUAL WOOD, GLASS, CONCRETE AND METAL FROM PILES K,J,F,E,D,C,O (CELLS 105,106,107,102,116,125,134,135,136,137,138,139,141 AND 142).	Waste Management Inc, Rio Rancho

Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites

DATE RECEIVED	WASTE STREAM NO.	RAD/CAT CD	RCRA CAT CD	FINAL CLASSIF	WASTE CODE	HAZ CODES	QTY (LBS)	WEIGHT (KG)	DATE RECEIVED	RELEASE SITE	REMARKS	
09-013	22922	NON	NHCW	NON-HAZARDOUS WASTE	3001913	NONE	192.00	174,179.48	1/24/1996		SOIL WITH RESIDUAL WOOD, GLASS, CONCRETE AND METAL FROM PILES BB AND CC (CELLS 60,61,62,74,75,76,90,91).	Waste Management Inc, Rio Rancho
09-013	22929	NON	NHCW	NON-HAZARDOUS WASTE	3001914	NONE	208.00	188,694.44	1/24/1996		SOIL WITH RESIDUAL WOOD, GLASS, CONCRETE AND METAL FROM PILES T AND R (CELLS 68,69,79,80,81,83).	Waste Management Inc, Rio Rancho
09-013	22930	NON	NHCW	ASBESTOS WASTE-NEW MEXICO SPECIAL WASTE	3001909	NONE	208.00	188,694.44	1/24/1996		SOIL WITH RESIDUAL WOOD, GLASS, METAL, ASBESTOS AND CONCRETE FROM CELLS 8 AND 17.	Butterfield Station, AZ
09-013	25492	NON	NHCW	NEW MEXICO SPECIAL WASTE	3003904	NONE	0.83	453.60	1/24/1997		WASTE THAT INCLUDES PLASTIC, OIL FILTER, AND RAGS WAS GENERATED DURING DRILLING ACTIVITIES AT	RES - Colorado
09-013	22952	NON	NHCW	ASBESTOS WASTE-NEW MEXICO SPECIAL WASTE	3001925	NONE	208.00	188,694.44	1/25/1996		SOIL WITH RESIDUAL; WOOD, GLASS, CONCRETE, ASBESTOS AND METAL FROM PILES U,X,Y (CELLS 53,54,55,56,57,67,71,85).	Butterfield Station, AZ
09-013	22953	NON	NHCW	ASBESTOS WASTE-NEW MEXICO SPECIAL WASTE	3001925	NONE	192.00	174,179.48	1/25/1996		SOIL WITH RESIDUAL WOOD, GLASS, CONCRETE ASBESTOS AND METAL FROM PILES BB AND CC (CELLS 60,61,62,74,75,76,90,91).	Butterfield Station, AZ
09-013	22954	NON	NHCW	ASBESTOS WASTE-NEW MEXICO SPECIAL WASTE	3001925	NONE	80.00	72,574.78	1/25/1996		SOIL WITH RESIDUAL WOOD, GLASS, CONCRETE, ASBESTOS, AND METAL FROM PILES Y,Z (CELLS 41,42 AND 43).	Butterfield Station, AZ
09-013	22955	NON	NHCW	ASBESTOS WASTE-NEW MEXICO SPECIAL WASTE	3001925	NONE	208.00	188,694.44	1/25/1996		SOIL WITH RESIDUAL WOOD, GLASS, CONCRETE, ASBESTOS, AND METAL FROM PILES T AND R (CELLS 68,69,79,80,81,83).	Butterfield Station, AZ
09-013	23003	NON	NHCW	ASBESTOS WASTE-NEW MEXICO SPECIAL WASTE	3001925	NONE	112.00	101,604.70	1/25/1996		SOIL WITH RESIDUAL WOOD, GLASS, CONCRETE AND METAL FROM PILES K,J,F,E,D,C,Q (CELLS 105,106,107,102,116,125,134,135,136,137,138,139,141 AND 142). WITH 1-20% ASBESTOS, FRIABLE AND NON-	Butterfield Station, AZ
09-013	23004	NON	NHCW	ASBESTOS WASTE-NEW MEXICO SPECIAL WASTE	3001925	NONE	192.00	174,179.48	1/25/1996		SOIL WITH RESIDUAL WOOD, GLASS, METAL AND CONCRETE FROM PILES Q,S, AND P (CELLS 65,66,94,94A,95,96,97,101,110,111,112,113). NO PCB HITS. CONTAINS 1-20% ASBESTOS, FRIABLE AND NON-	Butterfield Station, AZ
09-013	23044	NON	NHCW	NON-HAZARDOUS WASTE	3001942	NONE	208.00	188,694.44	1/31/1996		SOIL WITH RESIDUAL WOOD, GLASS, CONCRETE AND METAL FROM PILES U,X,Y (CELLS 53,54,55,56,57,67,70,85).	Waste Management Inc, Rio
09-013	22881	NON	HAZW	HAZARDOUS WASTE	3001826; 3001854	D008	214.00	194,137.55	1/4/1996; 1/10/1996		ROLL OFFS CONSISTING OF WOOD, CONCRETE, METAL, GLASS AND RESIDUAL SOIL FROM THE EXPEDITED CLEANUP OF MDA M. RCRA VALUES DETERMINED USING XRF FOR THE ANALYTICAL METHOD.	CWMI - Kettleman, CA

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

RELEASE DATE	WASTE NO.	AD. CAT. CD.	RCA ID CD.	WASTE CLASS.	WORK NO.	RCA CODES	QTY (GAL)	WEIGHT (K)	EST. DATE	ADDITIONAL COMMENTS	WASTE MANAGEMENT
09-013	23168	NON	NHCW	NON-HAZARDOUS WASTE	3002074	NONE	64.00	58,059.83	2/16/1996	SOIL WITH RESIDUAL GLASS, METAL, WOOD AND CONCRETE FROM PILE SB (CELLS 153,156,159,160).	Waste Management Inc, Rio Rancho
09-013	23170	NON	NHCW	NON-HAZARDOUS WASTE	3002074	NONE	32.00	29,029.91	2/16/1996	SOIL WITH RESIDUAL GLASS, CONCRETE, WOOD AND METAL FROM PILE SD (CELLS 151,152,154,155).	Waste Management Inc, Rio Rancho
09-013	23171	NON	NHCW	ASBESTOS WASTE-NEW MEXICO SPECIAL WASTE	3002074	NONE	96.00	87,089.74	2/16/1996	SOIL WITH RESIDUAL GLASS, WOOD, METAL AND CONCRETE AND ASBESTOS FROM PILE SA (CELLS 163,164,165,166,167). NO PCB HITS.	Butterfield Station, AZ
09-013	23172	NON	NHCW	ASBESTOS WASTE-NEW MEXICO SPECIAL WASTE	3002074	NONE	32.00	29,029.91	2/16/1996	SOIL WITH RESIDUAL GLASS, METAL, WOOD AND CONCRETE AND ASBESTOS FROM PILE SB (CELLS 153,156,159,160).	Butterfield Station, AZ
09-013	23173	NON	NHCW	ASBESTOS WASTE-NEW MEXICO SPECIAL WASTE	3002074	NONE	48.00	43,544.87	2/16/1996	SOIL WITH RESIDUAL GLASS CONCRETE, WOOD AND METAL AND ASBESTOS FROM PILE SC (CELLS 157,158,161,162). NO PCB HITS.	Butterfield Station, AZ
09-013	23167	NON	NHCW	NON-HAZARDOUS WASTE	3002097	NONE	64.00	58,059.83	2/22/1996	SOIL WITH RESIDUAL GLASS, WOOD, METAL AND CONCRETE FROM PILE SA (CELLS 163,164,165,166,167). NO PCB HITS.	Waste Management Inc, Rio Rancho
09-013	23169	NON	NHCW	NON-HAZARDOUS WASTE	3002098	NONE	64.00	58,059.83	2/22/1996	SOIL WITH RESIDUAL GLASS CONCRETE, WOOD AND METAL FROM PILE SC (CELLS 157,158,161,162). NO PCB HITS.	Waste Management Inc, Rio Rancho
09-013	23093	NON	NHCW	NON-HAZARDOUS WASTE	3001957	NONE	128.00	116,119.65	2/5/1996	SOIL WITH RESIDUAL WOOD, GLASS, CONCRETE AND METAL FROM CELLS 58,59,86,87,72,73 AND 89 (PILES W,V)	Waste Management Inc, Rio Rancho
09-013	23094	NON	NHCW	ASBESTOS WASTE-NEW MEXICO SPECIAL WASTE	3001956	NONE	208.00	188,694.44	2/5/1996	SOIL WITH RESIDUAL WOOD, GLASS, CONCRETE AND METAL AND ASBESTOS FROM CELLS 58,59,86,87,72,73 AND 89. (PILES W,V)	Butterfield Station, AZ
09-013	23095	NON	NHCW	NON-HAZARDOUS WASTE	3001957	NONE	208.00	188,694.44	2/5/1996	SOIL WITH RESIDUAL GLASS, WOOD CONCRETE AND METAL FROM CELLS 92,93,108, AND 109. (PILE L).	Waste Management Inc, Rio Rancho
09-013	23096	NON	NHCW	ASBESTOS WASTE-NEW MEXICO SPECIAL WASTE	3001957	NONE	160.00	145,149.57	2/5/1996	SOIL WITH RESIDUAL GLASS, WOOD CONCRETE AND METAL AND ASBESTOS FROM CELLS 92,93,108 AND 109. (PILE L).	Butterfield Station, AZ
09-013	23097	NON	NHCW	NON-HAZARDOUS WASTE	3001957	NONE	192.00	174,179.48	2/5/1996	SOIL WITH RESIDUAL WOOD, GLASS, CONCRETE AND METAL FROM CELLS 103,104,117,118,119,120,121,130 (PILES G,H,I)	Waste Management Inc, Rio Rancho
09-013	23098	NON	NHCW	ASBESTOS WASTE-NEW MEXICO SPECIAL WASTE	3001957	NONE	208.00	188,694.44	2/5/1996	SOIL WITH RESIDUAL WOOD, GLASS, CONCRETE AND METAL AND ASBESTOS FROM CELLS 103,104,117,118,119,120,121,130 (PILES G,H,I)	Waste Management Inc, Rio Rancho

Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites

LANL PITS NO.	WPP NO.	RAD. CAT. (CD)	RCRA CAT. (RCF)	FINAL CLASSIF.	WDR	RCRA CODES	VOLUME (G)	WEIGHT (LB)	DATE DIS. (DD/MY/YY)	HAZARDOUS (Y/N)	DESCRIPTION	PROJECT
09-013	23101	NON	NHCW	NON-HAZARDOUS WASTE	3001957	NONE	80.00	72,574.78	2/5/1996		SOIL WITH RESIDUAL WOOD, GLASS, CONCRETE AND METAL FROM CELLS 10,18,19.	Waste Management Inc, Rio Rancho
10-003(a-o) & 10-007	10-003(a-o)											
	10-003	24057	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3003658	0.91	217.73	11/20/1996	SR90, 8.70E-05; SR90, 8.70E-05	CHAMISA PLANTS FROM BAYO CANYON SWMU 10-003 WHICH WERE REMOVED AND DRUMMED BECAUSE OF ELEVATED LEVELS OF SR-90.	LANL TA-54 Area G Pit 37
	10-003(a-o)	25916	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3004376	0.17	13.61	4/28/1997	SR90, 1.36E-06	THE WASTE STREAM CONSISTS OF APPROXIMATELY 0.25 CUBIC YARDS (IN A 55-GALLON DRUM) OF KLEENGARD TM PPE, PAPER TOWELS, ALUMINUM FOIL, TAPE, PLASTIC (BAGGIES AND PETRI DISHES), PLANT DEBRIS (APPROX. 2% OF VOLUME), AND SOIL (APPROX. 2% OF VOLUME).	LANL TA-54 Area G Pit 39
	10-003(a-o)	25178	NON	NHCW	NON-HAZARDOUS WASTE	3003715	0.34	453.60	12/5/1996		WASTE CONSISTS OF CONCRETE GROUT SPILLAGE FROM ENVIRONMENTAL RESTORATION BOREHOLE BACKFILLING. THE MATERIAL IS RAW CONCRETE THAT NEVER CONTACTED CONTAMINATION. IT WAS EITHER SHOVELED INTO THE DRUMS	RES - Colorado
	10-003(a-o) & 10-007	21985		NHCW	NON-HAZARDOUS WASTE	3002271	0.57	544.32	3/28/1996		LIQUIDS USED FOR FLUID DECONTAMINATION OF DRILLING AND SAMPLING EQUIPMENT AT TA-	Rollins, OPC Los Angeles, CA
	10-003(a-o) & 10-007	24489	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3003567; 3003162	3.78	2,268.00	10/31/1996; 8/20/1996	AM241, 2.83E-06; SR90, 2.27E-05; AM241, 5.67E-07; SR90, 4.54E-06; AM241, 1.30E-06; SR90, 1.30E-05	THE WASTE CONSISTS OF CARDBOARD BOXES AND CORE SAMPLES GENERATED AS PART OF THE OU-1079, TA-10, BAYO CANYON SUBSURFACE ENVIRONMENTAL SAMPLING PROJECT. THE PROJECT WAS AN RFI SITE CHARACTERIZATION FOR FIELD UNIT-1.	LANL TA-54 Area G Pit 39
	10-003(a-o) & 10-007	21986	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3001665	0.38	408.24	11/29/1995	SR90, 4.10E-03; SR90, 4.10E-03	WASTE CONSISTS OF A 50/50 MIXTURE OF EXCESS CORE MATERIAL AND BOREHOLE CUTTINGS, AND PLASTIC SHEETING. CHARACTERIZATION IS BASED UPON ANALYTICAL RESULTS FROM CORE SAMPLES COLLECTED ROUGHLY EVERY FEET THROUGHOUT EACH	LANL TA-54 Area G Pit 38

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

LANL PERS. NO.	WASTE NO.	RAD. CAT. CD.	RCRA/PAT. CD.	FINAL CLASS.	WORK #	RCRA CODES	VOLUME (GAL)	WEIGHT (LBS)	DATE RECEIVED	RAD. ISOTOPES (ICRIS)	DESCRIPTION	LANL TA-54 Area G Pit 39
10-007, 10-003(a-o)	24489	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3003567; 3003162		0.15	136.08	10/31/1996; 8/20/1996	AM241, 2.83E-06; SR90, 2.27E-05; AM241, 5.67E-07; SR90, 4.54E-06; AM241, 1.30E-06; SR90, 1.30E-05	THE WASTE CONSISTS OF CARDBOARD BOXES AND CORE SAMPLES GENERATED AS PART OF THE OU-1079, TA-10, BAYO CANYON SUBSURFACE ENVIRONMENTAL SAMPLING PROJECT. THE PROJECT WAS AN RFI SITE CHARACTERIZATION FOR FIELD UNIT-1.	LANL TA-54 Area G Pit 39
11-009	11-009											
	NONE REPORTED											
15-004(f) & 15-008(a)	15-004(f)											
15-004(f) 15-008(a)	27785		NHCW	LOW LEVEL RADIOACTIVE WASTE	3005786		0.57	1,020.60	2/23/1998	U234, 9.01E-03; U235, 4.05E-04; U236, 0.00E+00; U238, 2.12E-02; U234, 9.01E-03; U235, 4.05E-04; U236, 0.00E+00; U238, 2.12E-02; U234, 9.01E-03; U235, 4.05E-04; U236, 0.00E+00; U238, 2.12E-02; U234, 9.01E-03; U235, 4.05E-04; U236, 0.00E+00; U238, 2.12E-02; U234, 9.01E-03; U235, 4.05E-04; U236, 0.00E+00; U238, 2.12E-02	WASTE CONSISTS OF DRUMS OF DEPLETED URANIUM OXIDE METAL. ISOTOPIC URANIUM ANALYSES ON SOIL SAMPLE WERE AS FOLLOWS: U-234, 570 PCI/G; U-235, 26.9 PCI/G; AND U-238, 990 PCI/G.	LANL TA-54 Area G Pit 39

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

PRC NO.	PRC NO.	ADJ. CODE	RCRA CODE	WASTE CLASS.	QTY.	CODE	PUR. (%)	WEIGHT (KG)	DATE REPORTED	ADJUSTED QUANTITY	DESCRIPTION	MANAGEMENT
15-006(C)	33286		NHCW	NON-HAZARDOUS WASTE	3011309	NONE	11.33	9,071.85	12/11/2000		SCRAP STEEL, ALUMINUM, AND IRON REMOVED DURING SHRAPNEL PICKUP OF PRS 15-006(C) AT R-44 FIRING SITE. NON-RADIOACTIVE, NON-HAZARDOUS, FOR DISPOSAL OFF SITE, NOT FOR RECYCLE.	Waste Management Inc, Rio Rancho
15-006(c) & 15-008(b)	27494	LLR	HAZW	MIXED LOW LEVEL RADIOACTIVE WASTE	3005443	D004, D008	0.25	149.69	06/25/01	AM241, 4.40E-09; BA140, 1.10E-07; CE144, 9.10E-09; CO60, 4.10E-09; CS137, 3.20E-08; EU152, 1.40E-08; H3, 2.60E-05; NA22, 4.80E-09; NP237, 4.10E-09; RU106, 6.10E-09; U234, 9.50E-06; U235, 1.50E-06; U238, 9.90E-05; AM241, 7.30E-10; BA140, 1.70E-08; CE144	SHRAPNEL FROM A FORMER FIRING SITE [PRS 15-006(C)] AND A MATERIAL DISPOSAL AREA [PRS 15-008(B)] WAS COLLECTED AND PLACED IN 55-GALLON DRUMS. THIS AREA WAS USED EXTENSIVELY BETWEEN 1951 AND 1978 FOR DIAGNOSTIC TESTS OF WEAPONS COMPONENTS.	Waste Control Specialists, Andrews, TX
15-006(c) & 15-008(b)	27600	LLR	HAZW	MIXED LOW LEVEL RADIOACTIVE WASTE	3005445	D008	0.15	127.01	06/25/01	H3, 7.70E-05; U234, 1.50E-06; U235, 2.20E-07; U238, 9.60E-06; H3, 1.20E-04; U234, 2.30E-06; U235, 3.40E-07; U238, 1.50E-05	WASTES CONSIST OF PIECES OF DU AND ASSOCIATED SOIL (<10% OF VOLUME) GATHERED FROM THE SURFACE AT THE R-44 FIRING SITE[15-006 (C)] AND ADJOINING SURFACE DISPOSAL AREA [15-008(B)].	Waste Control Specialists, Andrews, TX
15-007(a)	15-007(a)											
		NONE REPORTED										
15-007(b)	15-007(b)											
		NONE REPORTED										
16-003(o)	16-003(o)											
		NONE REPORTED										
16-008(a)	16-008(a)											
		NONE REPORTED										
16-018	16-018											

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

TA-16 PRS NO.	WPT NO.	HAZ. CAT. CD	RCRA (DA) CD	FINAL CLASSIF.	WDR	RCRA CODES	QTY (#)	WEIGHT (kg)	DATE DESIGNED	HAZ. CAT. CD	PROCESS	LOCATION
16-018	32138		NHCW	NON-HAZARDOUS WASTE	3011376	NONE	0.00	1.70	1/2/2001		HAZ-CAT, AQUEOUS SOLUTION.	ONYX - Henderson, CO
16-018	32157		HAZW	HAZARDOUS WASTE	3011376	D002	0.00	0.57	1/2/2001		HAZ-CAT, CORROSIVE LIQUID.	ONYX - Henderson, CO
16-018	32139		NHCW	NON-HAZARDOUS WASTE	3011376; 3009737; 3010139	NONE	0.01	8.70	1/2/2001; 4/26/2000; 7/13/2000		HAZ-CAT, ORGANIC LIQUID.	ONYX - Henderson, CO
16-018	32142		NHCW	NON-HAZARDOUS WASTE	3011376; 3009749; 3010137	NONE	0.05	31.70	1/2/2001; 4/28/2000; 7/13/2000		HAZ-CAT, NON-REGULATED SOLID.	ONYX - Henderson, CO
16-018	30445		HAZW	HAZARDOUS WASTE	3011376; 3008129; 3009306; 3009549; 3010162	D001, F003	0.02	13.61	1/2/2001; 7/7/1999; 2/2/2000; 3/20/2000; 7/14/2000		WASTE ACETONE FROM HE TEST KITS, WITH POSITIVE RESULTS FOR RDX & OR TNT, SOILS BEING TESTED ARE FROM WEST LOBE @ TA-16.	ONYX - Henderson, CO
16-018	31989		HAZW	HAZARDOUS WASTE	3009204	D005, D008, D030	183.51	261,269.22	1/20/2000		BARIUM, LEAD AND 2,4- DINITROTOLUENE CONTAMINATED SOIL WITH CONCRETE AND METAL DEBRIS GENERATED FROM THE EXCAVATION AND REMEDIATION OF MDA-P LANDFILL AT TA-16.	Waste Control Specialists, Andrews, TX

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

PLAN FILE NO.	WFE NO.	RAD. CAT. CD	RCRA CAT.	HAZ. CLASS.	WASTE	DOCS	QTY (m ³)	WEIGHT (kg)	DATE REMOVED	ADDITIONAL NOTES	REMARKS	
16-018	32042		HAZW	HAZARDOUS WASTE	3009205	D005, D008	0.20	226.80	1/20/2000		BARIUM AND LEAD CONTAMINATED ASH FROM TA-16 BURNING GROUND. ASH IS FROM FIBERGLASS BAG AND MOCK HE FOUND DURING EXCAVATION AND REMEDIATION OF MDA-P LANDFILL AT TA-16 AND BURNED AT THE BURNING GROUND.	CWMI - Kettleman, CA
16-018	31127		HAZW	HAZARDOUS WASTE	3009237; 3009439; 3011515; 3009252; 3008347; 3008346; 3008294; 3008345; 3008561	D005, D008	107.05	129,645.78	1/25/2000; 3/2/2000; 2/6/2001; 1/28/2000; 8/23/1999; 8/23/1999; 8/13/1999; 8/23/1999; 9/23/1999		BARIUM CONTAMINATED SOILS FROM MDA P.	Waste Control Specialists, Andrews, TX
16-018	31861		HAZW	HAZARDOUS WASTE	3009095	D005, D030	428.20	609,628.19	1/6/2000		BARIUM CONTAMINATED SOIL WITH CONCRETE AND METAL DEBRIS.	Waste Control Specialists, Andrews, TX
16-018	32947		HAZW	MIXED LOW LEVEL RADIOACTIVE WASTE	3011015	D008	0.95	1,360.80	10/27/2000	U234, 1.18E-13; U235, 5.29E-15; U236, 0.00E+00; U238, 2.78E-13; U234, 1.18E-13; U235, 5.29E-15; U236, 0.00E+00; U238, 2.78E-13; U234, 1.18E-13; U235, 5.29E-15; U236, 0.00E+00; U238, 2.78E-13; U234, 1.18E-13; U235, 5.29E-15; U236, 0.00E+00; U238, 2.78E-13; U234, 1.18E-13; U235, 5.29E-15; U236, 0.00E+00; U238, 2.78E-1	LEAD PIECES RECOVERED DURING EXCAVATION OF MDA-P LANDFILL AT TA-16.	TA-54, Area G storage (received 2/9/01)
16-018	32969		NHCW	NON-HAZARDOUS WASTE	3011013	NONE	196.26	304,814.09	11/29/00		SCRAP STEEL REMOVED DURING EXCAVATION OF MDA-P.	Waste Management Inc, Rio Rancho

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

WASTE STREAM NO.	WASTE STREAM ID	WASTE STREAM CD	RCRA WASTE CODE	FINAL CLASSIFICATION	WASTE ID	RCRA CODES	QTY (LBS)	WEIGHT (kg)	DATE DISPOSED	DISPOSAL METHOD	DISPOSAL SITE
16-018	32707		NHCW	NON-HAZARDOUS WASTE	3011024	NONE	0.04	11.34	10/31/2000		EMPTY CALIBRATION GAS CYLINDERS. ONYX - Henderson, CO
16-018	31555		HAZW	HAZARDOUS WASTE	3008655	D005, D006, D008	688.18	960,382.12	10/5/1999		BARIUM /LEAD/CADMIUM CONTAMINATED SOILS WITH CONCRETE AND METAL DEBRIS. SEE ATTACHED MEMO ON SOLVENTS. Waste Control Specialists, Andrews, TX
16-018	31455		NHCW	NON-HAZARDOUS WASTE	3008829; 3008947; 3009340; 3009448; 3011257; 3008760	NONE	833.74	1,393,435.85	11/12/1999; 12/6/1999; 2/8/2000; 3/2/2000; 12/1/2000; 10/27/1999		CONCRETE DEBRIS FOR DISPOSAL. LANL Area J
16-018	31807		HAZW	HAZARDOUS WASTE	3008882; 3008948; 3009305; 3009382	D005	1,288.42	1,834,327.67	11/19/1999; 12/6/1999; 2/2/2000; 2/16/2000		BARIUM CONTAMINATED SOILS WITH CONCRETE AND METAL DEBRIS. Waste Control Specialists, Andrews, TX
16-018	31494		NHCW	NON-HAZARDOUS WASTE	3011264; 3011159; 3008733; 3008562; 3008461; 3008486	NONE	229.39	326,586.53	12/1/2000; 11/15/2000; 10/19/1999; 9/23/1999; 9/10/1999; 9/10/1999		SOIL/DEBRIS EXCAVATED FROM MDA P. LANL Area J
16-018	31736		NHCW	NON-HAZARDOUS WASTE	3008915	NONE	1,032.26	1,632,932.64	12/6/1999		SOIL/DEBRIS EXCAVATED FROM MDA P, TA-16. LANL Area J

Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites

ER SITE NO.	WPT NO.	RAD/CAT CODE	HAZW CODE	HAZARDOUS CLASSIF.	WDR	RCRA CODE	VOLUME (M3)	WEIGHT (kg)	DATE OF RECOVERY	HAZARDOUS DESCRIPTION	RECOVERY CONTRACTOR	
16-018	32384		HAZW	HAZARDOUS WASTE	3009665	D005, D030	871.69	1,241,028.81	4/11/2000	BARIUM AND 2,4 - DINITROTOLUENE CONTAMINATED SOILS, WITH CONCRETE AND METAL DEBRIS EXCAVATED FROM MDA-P.	Waste Control Specialists, Andrews, TX	
16-018	32283		HAZW	HAZARDOUS WASTE	3009688	D003	0.01	9.07	4/17/2000	EMPTY SPRAY CANS AND GAS CYLINDERS, CONSIDERED RCRA REACTIVE.	ONYX - Henderson, CO	
16-018	32150		HAZW	HAZARDOUS WASTE	3009734; 3010138; 3011376	D001	0.01	4.03	4/26/2000; 7/13/2000; 1/2/2001	HAZ-CAT, IGNITABLE LIQUID.	ONYX - Henderson, CO	
16-018	31820		NHCW	NON-HAZARDOUS WASTE	3009625; 3009101; 3009344; 3009489	NONE	2,229.69	3,527,134.50	4/5/2000; 1/6/2000; 2/10/2000; 3/9/2000	SOIL/DEBRIS EXCAVATED FROM MDA-P, TA-16. NON-HAZARDOUS.	LANL Area J	
16-018	32416		NHCW	NON-HAZARDOUS WASTE	3009794	NONE	82.58	130,634.61	11/16/2000, 11/20/00	SEDIMENT FROM FRAC TANK #2 DECON WATER FROM CONCRETE AND METAL DEBRIS EXCAVATED FROM MDA-P.	Waste Management Inc, Rio Rancho	
16-018	31000		HAZW	HAZARDOUS WASTE	3008290	D001, D007	0.00	3.18	8/12/1999	METAL CYLINDER W/ PIECES OF METAL CHUNKS INSIDE HAZ-CAT PERFORMED 6/10/99 D.S. #99-CAT-160 ID#2148704	Laidlaw, Aptus UT	
16-018	31001		HAZW	HAZARDOUS WASTE	3008290	D002	0.00	0.13	8/12/1999	YELLOWISH LIQUID HAZ-CAT PERFORMED 6/10/99 D.S. #99-CAT-161 ID#2148704	Laidlaw, Aptus UT	
16-018	31002		HAZW	HAZARDOUS WASTE	3008290	D001	0.00	0.13	8/12/1999	YELLOWISH VISCOUS LIQUID HAZ-CAT PERFORMED 6/10/99 D.S. #99-CAT-167 ID#2148699	Laidlaw, Aptus UT	
16-018	31003		NHCW	NON-HAZARDOUS WASTE	3008290	NONE	0.00	0.50	8/12/1999	YELLOWISH VISCOUS LIQUID HAZ-CAT PERFORMED 6/10/99 D.S. #99-CAT-166 ID# 2148698	Laidlaw, Aptus UT	
16-018	31004		HAZW	HAZARDOUS WASTE	3008290	D002	0.00	0.00	8/12/1999	YELLOWISH LIQUID HAZ-CAT PERFORMED #99-CAT-165 6/10/99	Laidlaw, Aptus UT	
16-018	31314		NHCW	NON-HAZARDOUS WASTE	3008485	NONE	0.00	0.01	9/10/1999	REDDISH LIQUID HAZ-CAT PERFORMED 7/21/99 D.S. 99-CAT-198	Laidlaw, Aptus UT	
16-018	31315		NHCW	NON-HAZARDOUS WASTE	3008485	NONE	0.00	0.11	9/10/1999	GREEN JAR W/ HARD MATERIAL INSIDE. HAZ-CAT PERFORMED 7/21/99 D.S. 99-CAT-201.	Laidlaw, Aptus UT	
16-018	31316		HAZW	HAZARDOUS WASTE	3008485	D001, D005	0.00	0.03	9/10/1999	WHITISH SOLID & POWDER, BROWNISH SOLID & POWDER HAZ-CAT PERFORMED 7/21/99 D.S. 99-CAT-199	Laidlaw, Aptus UT	
16-018	31317		NHCW	NON-HAZARDOUS WASTE	3008485	NONE	0.00	0.01	9/10/1999	YELLOWISH LIQUID HAZ-CAT PERFORMED 7/21/99 D.S. 99-CAT-200	Laidlaw, Aptus UT	
16-018	31493		HAZW	MIXED LOW LEVEL RADIOACTIVE WASTE	3008560	D005	0.91	453.60	9/23/1999	U234, 1.62E-05; U235, 9.70E-07; U238, 1.37E-05	DETONATOR CABLE/SOIL AND PIPING FOUND AT MDA-P.	Waste Control Specialists, Andrews, TX
16-018	31586		NHCW	NEW MEXICO SPECIAL WASTE	3008614	NONE	0.20	113.40	9/28/1999	WASTE FROM TRANSMISSION FLUID SPILL. TRANSMISSION FLUID WAS PULLED FROM MDA P AND MANUFACTURER TYPE ARE UNKNOWN. SPILL FROM EQUIPMENT PULLED FROM LANDFILL OCCURRED ON DECON PAD. WASTE CONTAINS	Waste Management Inc, Rio Rancho	
16-018	31383		HAZW	HAZARDOUS WASTE	3008476	D005	0.17	113.40	9/9/1999	SOIL CONTAMINATED WITH SMALL AMOUNTS OF EXPLOSIVES.	CWMI - Henderson, CO	

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

Site ID	Release ID	Material ID	Material Name	Material Type	Material Description	Material Quantity	Material Code	Material Weight	Material Volume	Material Date	Material Details	Material Location
16-019	16-019	32881	NHCW	NON-HAZARDOUS WASTE	3010784; 3011371; 3011400	NONE	467.96	740,262.80	9/25/2000;11/17/2000, 12/20/2000; 1/4/2001; 1/8/2001		NON-HAZARDOUS SOIL WITH SMALL QUANTITIES OF CONCRETE AND METAL DEBRIS GENERATED FROM THE EXCAVATION OF THE MDA-R LANDFILL AT TA-16 DURING THE	Waste Management Inc, Rio Rancho
21-011(k)	21-011(k)	27957	NHCW	LOW LEVEL RADIOACTIVE WASTE	3005353		2.00	2,880.00	10/27/1997	AM241, 2.33E-04; CS137, 1.96E-03; PU238, 3.12E-05; PU239, 2.32E-04; SR90, 6.62E-04; AM241, 2.33E-04; CS137, 1.96E-03; PU238, 3.12E-05; PU239, 2.32E-04; SR90, 6.62E-04	WASTE IS APPROXIMATELY 2 CU YD OF SOIL, PPE AND PLASTIC GENERATED DURING DECONTAMINATION ACTIVITIES AFTER THE INTERIM ACTION PERFORMED AT PRS 21-011 (K) REFERENCE WPF #24827.	LANL TA-54 Area G Pit 39
	21-011(k)	31642	NHCW	LOW LEVEL RADIOACTIVE WASTE	3008786		0.59	63.50	11/3/1999	AM241, 5.95E-17; BA140, 7.75E-20; CS134, 8.22E-20; CS137, 4.99E-16; H3, 5.87E-17; PU238, 7.97E-18; PU239, 5.91E-17; RU106, 9.58E-20; SR90, 1.69E-16; AM241, 8.92E-17; BA140, 1.16E-19; CS134, 1.23E-19; CS137, 7.49E-16; H3, 8.81E-17; PU238, 1.19E-17; PU239	THE WASTE INCLUDES SILT FENCING, WOOD POSTS, PPE, AND PLASTICS WHICH HAVE COME IN CONTACT WITH RADIOACTIVELY CONTAMINATED SEDIMENTS AT PRS 21-011(K).	LANL TA-54 Area G Pit 15
	21-011(k)	22171	LLR	LOW LEVEL RADIOACTIVE WASTE	3002890; 3001740; 3001741; 3001742; 3002446; 3002554		1.04	239.50	7/1/1996; 12/13/1995; 12/13/1995; 12/13/1995; 4/29/1996; 5/13/1996	CS137, 3.20E-05; H3, N/A; CS137, 3.90E-05; H3, N/A; CS137, 3.20E-05; H3, N/A; CS137, 3.40E-05; H3, N/A; CS137, 4.20E-05; H3, N/A; CS137, 3.40E-05; H3, N/A; CS137, 3.20E-05; H3, N/A; CS137, 1.90E-05; CS137, 4.20E-05; H3, N/A; CS137, 4.30E-06; H3, N/A; CS137, 4.20E-05; H3, N/A; CS137	BOREHOLE CUTTINGS FROM DEEP WELL. LADP 4 IS IN LOS ALAMOS CANYON. BOREHOLES WERE DRILLED FOR GEOLOGIC & HYDROGEOLOGIC CHARACTERIZATION. DRILLING INTERVAL FROM 0-20 IS CONTAMINATED WITH CS-137 WHICH WAS IDENTIFIED DURING SURFACE SAMPLING OF 21-011(K).	LANL TA-54 Area G Pit 37

Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites

RELEASE NO.	WASTE NO.	AD CAT NO.	RCRA ID	FINAL CLASSIF.	NO.	QTY	WEIGHT (kg)	DATE	DESCRIPTION	LOCATION	
21-011(k)	24827	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3003399; 3003331; 3003406; 3003332; 3003330; 3003333; 3003334; 3003335; 3003390; 3003400; 3003401; 3003402; 3003403; 3003329; 3003405; 3003323; 3003407; 3003408; 3003409; 3003404; 3003315; 3003309; 3003310; 3003311; 3003312; 3003325; 3003314; 3003328	290.56	281,227.29	9/30/1996; 9/17/1996; 9/30/1996; 9/17/1996; 9/17/1996; 9/17/1996; 9/17/1996; 9/17/1996; 9/27/1996; 9/30/1996; 9/30/1996; 9/30/1996; 9/30/1996; 9/30/1996; 9/17/1996; 9/30/1996; 9/30/1996; 9/30/1996; 9/30/1996; 9/17/1996; 9/17/1996; 9/17/1996; 9/17/1996; 9/17/1996;	AM241, 3.68E-04; BA140, 4.54E-07; CS134, 5.86E-07; CS137, 3.21E-03; H3, 3.62E-04; PU238, 4.95E-05; PU239, 3.68E-04; RU106, 9.10E-07; SR90, 1.08E-03; AM241, 3.68E-04; BA140, 4.54E-07; CS134, 5.86E-07; CS137, 3.21E-03; H3, 3.62E- 04; PU238, 4.95E-05; PU239	SWMU 21-011(K) IS A DISCHARGE THAT Routed TREATED, INDUSTRIAL WASTE WATER FROM HOLDING TANKS THROUGH 4 IN VITRIFIED CLAY PIPE TO OUTFALL DRAINAGE. WASTE IS SOIL FROM OUTFALL CONTAMINATED WITH RADIOACTIVE MATERIALS.	LANL TA-54 Area G Pit 37
21-018(a)-99	21-013(b)										
21-018(a)-99	21-018(a)										
21-018(a)-99	21-018(a)-99										
21-018(a)-99	21-018(b)										
21-018(a)-99	21-013(a)										
21-018(a)-99	21-023(c)										
21-018(a)	32564		NHCW	LOW LEVEL RADIOACTIVE WASTE	3011332	0.21	136.08	12/13/2000	AM241, 1.99E-07; CS137, 6.81E-09; H3, 1.47E-07; PU238, 1.82E-05; PU239, 8.44E-06; SR90, 8.31E-08; U234, 4.41E-07; U235, 4.90E-08; U238, 3.57E-07	SOIL, WATER, SODIUM SILICATE, GRAPHITE, RTV, WOOL, AND CLOTH GENERATED AT ISV. NO FREE LIQUIDS.	LANL TA-54 Area G Pit 38

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

ER SITE NO.	WASTE NO.	RAD. CAT. CD	RCRA D/T CD	FINAL CLASSIF.	IDR#	RCRA CODES	VOLUME (GAL)	WEIGHT (kg)	TEST DATED	RADIOTOXICITIES	DESCRIPTION	RELEASE SITE
21-018(a)	32792		NHCW	LOW LEVEL RADIOACTIVE WASTE	3011333		0.30	27.22	12/13/2000	CO57, 5.30E-10; CO58, 1.60E-09; CO60, 9.00E-09; MN54, 2.50E-09; CO57, 5.30E-10; CO58, 1.60E-09; CO60, 9.00E-09; MN54, 2.50E-09	PPE, PLASTIC, PAPER FROM ACTIVITIES CONDUCTED DURING ISV.	LANL TA-54 Area G Pit 38
21-018(a)	32806		NHCW	NON-HAZARDOUS WASTE	3011350	NONE	0.15	113.40	12/18/2000		SOLIDS SETTLED OUT FROM FLUSH WATERS CONTAINED ON WPF #32063. WASTE IS MOIST BUT CONTAINS LESS THAN 1% OF FREE LIQUIDS.	ONYX - Henderson, CO
21-018(a)	32289		NHCW	NEW MEXICO SPECIAL WASTE	3009656	NONE	0.02	4.54	4/10/2000		DIESEL, ABSORBENT PADS/PIGS AND VERMICALITE FROM A SPILL. NO FREE LIQUIDS. ANY INCIDENTAL SOILS ARE FROM AN UNCONTAMINATED AREA.	Laidlaw, Aptus UT
21-018(a)	32302		NHCW	LOW LEVEL RADIOACTIVE WASTE	3009811		0.00	36.29	5/22/2000	SR90, 6.90E-11	DECON WATERS FROM ACTIVITIES CONDUCTED AT NTSIV SITE. PH IS 9.84.	LANL TA-50 RLWTF
21-018(a)	28917		NHCW	LOW LEVEL RADIOACTIVE WASTE	3006391		2.72	90.72	6/12/1998	AM241, 1.80E-08; PU238, 3.27E-09; PU239, 7.00E-07; PU240, 1.60E-07; PU241, 1.73E-07	PLASTIC, PPE, AND SAMPLING SUPPLIES FROM INVESTIGATION AT MDA-V. SOIL ENCOUNTERED CONTAINED PLUTONIUM. SOIL EXCAVATED WAS STORED ON PLASTIC SHEETING PRIOR TO DISPOSAL.	LANL TA-54 Area G Pit 39
21-018(a)	32560		NHCW	LOW LEVEL RADIOACTIVE WASTE	3009912		4.54	4,354.56	6/19/2000	GAMMA, N/A; GRALPH, N/A; GRBETA	SCRUBBER WATERS FROM ISV.	LANL TA-50 RLWTF
21-018(a)	32558		NHCW	NEW MEXICO SPECIAL WASTE	3009929	NONE	0.20	15.88	6/21/2000		MISCELLANEOUS DEBRIS CONTAMINATED WITH HYDRAULIC OIL.	Waste Management Inc, Rio Rancho
21-018(a)	32565		NHCW	LOW LEVEL RADIOACTIVE WASTE	3010120; 3010122		4.59	707.62	7/5/2000; 7/5/2000	CS137, 2.50E-07; PU238, 1.70E-08; PU239, 3.60E-06; U234, 5.60E-07; U238, 3.20E-07; CS137, 2.30E-07; PU238, 1.60E-08; PU239, 3.30E-06; U234, 5.10E-07; U238, 3.00E-07	HEPA FILTERS AND PLASTIC GENERATED AT ISV.	LANL TA-54 Area G Pit 15

Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites

LANL PRS NO	WTR NO	RAD CAT CD	RCRA G T CD	FINAL CLASSF	WDR #	RCRA CODES %	ORIG (HS)	WEIGHT (kg)	DATES DISPOSED (SIGNED)	R/D/S/O/D (CURIES)		
21-018(a)	22177	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3001734		1.87	2,245.32	12/13/1995	AM241, 1.20E-07; H3, N/A; PU238, 3.00E-08; PU239, 7.00E-06; AM241, 1.20E-07; H3, N/A; PU	DRILL CUTTINGS FROM MDA V.	LANL TA-54 Area G Pit 38
21-018(a)	23033	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3002444		0.06	102.06	4/29/1996	H3	SOIL CONTAMINATED WITH DIESEL/FROM MDA-V	LANL TA-54 Area G Pit 38
21-018(a)	23750	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3002556; 3002557; 3002545; 3002555; 3002684		1.63	2,199.96	5/13/1996; 5/13/1996; 5/13/1996; 5/31/1996	AM241, 7.30E-05; CS137, 3.90E-07; H3, N/A; PU238, 5.20E-06; PU239, 7.80E-05; SR90, 1.70E-07; U234, 1.30E-08; U235, 8.40E-10; U238, 4.10E-09; AM241, 7.30E-05; CS137, 3.90E-07; H3, N/A; PU238, 5.20E-06; PU239, 7.80E-05; SR90, 1.70E-07; U234, 1.30E-08; U235, 8.4	DRUMS WITH RESIDUAL SOLIDS (SOIL) AND ABSORBED LIQUIDS (WATER).	LANL TA-54 Area G Pit 38
21-014	21-014											
21-014	31440		NHCW	NON-HAZARDOUS WASTE	3009255	NONE	0.20	272.16	1/28/2000		ESTIMATED 80% EXCESS ELTROYTE (STARTER PLANE) SOLUTION AND 20% SOIL FROM THE NON-TRADITIONAL IN SITU VITRIFICATION (NTISV) DEMONSTRATION SITE.	Waste Management Inc, Rio Rancho
21-014	32061		NHCW	NON-HAZARDOUS WASTE	3009339	NONE	0.19	226.80	2/7/2000		SOIL/MOBIL EAL 224H MIXTURE FROM HYDRAULIC FLUID (MOBIL EAL 224H) SPILL CLEAN-UP. NO FREE LIQUIDS. SPILL OCCURRED IN UNCONTAMINATED AREA	Waste Management Inc, Rio Rancho
21-014	30447		NHCW	NEW MEXICO SPECIAL WASTE	3009500	NONE	0.00	4.54	3/15/2000		SPILLED COMMERCIAL PRODUCT. TA 21, PRS 21-014, IN-SITU VITRIFICATION, REMOVED SOIL FROM DEMONSTRATION AREA CONTAINING DIESEL RANGE	Laidlaw, Aptus UT

Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites

LANL PHS NO	WPP NO	RAD CAT CD	RCRA CAT CD	FINAL CLASSIF	WDR #	RCRA CODES	VOLUME (m ³)	WEIGHT (kg)	DATE DISP REQUEST SIGNED	RAD ISOTOPES (G/G)	PROCESS	RELEASE SITE
21-014	23337	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3002236		0.81	975.24	3/20/1996	AM241, 6.00E-04; CS137, 5.70E-06; H3, N/A; PU238, 4.30E-05; PU239, 6.40E-04; SR90, 1.40E-06; U234, 1.10E-07; U235, 7.00E-09; U238, 4.00E-08; AM241, 5.40E-04; CS137, 5.20E-06; H3, N/A; PU238, 4.00E-05; PU239, 5.70E-04; SR90, 1.24E-06; U234, 1.00E-07; U235, 6.3	RETURNED RAD VAN SAMPLES FROM TA-21 RCRA FACILITY INVESTIGATION.	LANL TA-54 Area G Pit 38
21-015	21-015	31528	HAZW	MIXED LOW LEVEL RADIOACTIVE WASTE	3009166	D006	0.38	362.88	1/13/2000	H3, 2.85E-07; PU239, 6.08E-09; H3, 2.85E-07; PU239, 6.08E-09	SOLUTIONS GENERATED FROM DECONTAMINATION OF EQUIPMENT AND PERSONNEL AT MDS'S U AND B. DECON SOLUTION IS A MIXTURE OF TAP WATER AND ALCONOX DETERGENT.	Diversified Sciences Inc., Oak Ridge, TN
21-015	31992		NHCW	LOW LEVEL RADIOACTIVE WASTE	3009256		0.21	45.36	1/28/2000	H3, 5.30E-08; PU239, 1.50E-08; SR90, 1.20E-07; H3, 6.70E-10; PU239, 1.90E-10; SR90, 1.40E-09	HEPA FILTER USED DURING DRILLING OPERATIONS AT SWMU 21-015, MDA B.	LANL TA-54 Area G Pit 15
21-015	30260		HAZW	MIXED LOW LEVEL RADIOACTIVE WASTE	3007146	D006, F005	0.47	465.85	12/10/1998	PU239, 7.14E-06; PU238, 4.00E-08; AM241, 1.57E-07	ER PROJECT INVESTIGATION DERIVED DRILL CUTTINGS FROM MDA-B (SMV 21-015) BOREHOLE 4.	Envirocare of Utah, Clive UT
21-015	32255		NHCW	LOW LEVEL RADIOACTIVE WASTE	3009523		0.01	1.36	3/17/2000	H3, 4.00E-10; PU239, 2.50E-14	PPE, PLASTIC, WOOD FROM TRANSFER OF DECONTAMINATION FLUIDS GENERATED AT MDAB.	LANL TA-54 Area G Pit 15
21-015	32229		NHCW	LOW LEVEL RADIOACTIVE WASTE	3009523; 3010163		0.21	23.59	3/17/2000; 7/14/2000	H3, 7.50E-10; PU239, 5.00E-14; H3, 7.50E-10; PU239, 5.00E-14; SR90, 6.90E-11	EMPTY DRUMS FROM TRANSFER OF DECONTAMINATION FLUIDS FROM MDAB.	LANL TA-54 Area G Pit 15
21-015	30664		NHCW	LOW LEVEL RADIOACTIVE WASTE	3007954		3.73	4,762.80	5/20/1999	AM241, 2.70E-08; H3, 4.80E-06; PU238, 3.40E-09; PU239, 8.20E-07; U234, 3.40E-07; U235, 1.80E-08; U238, 3.50E-07; AM241, 2.70E-08; H3, 4.80E-06; PU238, 3.40E-09; PU239, 8.20E-07; U234, 3.40E-07; U235, 1.80E-08; U238, 3.50E-07; AM241, 2.70E-08; H3	SWMU 21-015, MDA B DRILL CUTTINGS FROM RADIOACTIVELY-CONTAMINATED BOREHOLES MDA B-1, 2, 3 AND 5 GENERATED BY ER SAMPLING ACTIVITIES.	LANL TA-54 Area G Pit 39

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

LANL PES ID NO.	WFE ID NO.	RAD. CAT. CD	RCRA/IGT CD	FINAL CLASSIF.	WDR #	RCRA CODES	VOLUME (m ³)	WEIGHT (kg)	DATE DIS- POSED (YR/MO)	RAD. ISOTOPE CONTENTS	DESCRIPTION	RELEASE SITE
21-015	30672		NHCW	LOW LEVEL RADIOACTIVE WASTE	3007956		0.62	122.47	5/20/1999	AM241, 3.30E-10; H3, 7.20E-09; PU238, 5.00E-12; PU239, 1.20E-09; U234, 5.00E-10; U235, 2.70E-11; U238, 5.20E-10; AM241, 3.30E-10; H3, 7.20E- 09; PU238, 5.00E-12; PU239, 1.20E-09; U234, 5.00E-10; U235, 2.70E-11; U238, 5.20E-10; AM241, 3.30E-10; H3	SWMU 21-015. PPE FROM ER SUBSURFACE SAMPLING ACTIVITIES INVESTIGATING MDA B. PPE CAME IN CONTACT WITH RADIOACTIVELY CONTAMINATED DRILL CUTTINGS FROM BOREHOLES MDA B-1.	LANL TA-54 Area G Pit 38
21-015	30673		NHCW	LOW LEVEL RADIOACTIVE WASTE	3007957		0.62	122.47	5/20/1999	AM241, 6.50E-09; H3, 1.10E-10; PU238, 6.00E-11; PU239, 1.70E-08; SR90, 5.90E-09; U234, 3.30E-10; U235, 2.40E-10; U238, 3.50E-10; AM241, 6.50E-09; H3, 1.10E- 10; PU238, 6.00E-11; PU239, 1.70E-08; SR90, 5.90E-09; U234, 3.30E-10; U235, 2.40E-10; U238, 3.50E	SWMU 21-015. PPE AND PLASTICS FROM ER SUBSURFACE SAMPLING ACTIVITIES INVESTIGATING MDA B. PPE CAME IN CONTACT WITH RADIOACTIVELY CONTAMINATED DRILL CUTTINGS FROM BOREHOLE MDA B-4.	LANL TA-54 Area G Pit 38
21-016(a)-99	21-016(a)											
21-016(a)-99	21-001											
21-016(a)-99	21-007											
21-016(a)-99	21-010(a-h)											
21-016(a)-99	21-011(a, c-j)											
21-016(a)-99	21-016(a-c)											
21-016(a)-99	21-028(a)											
21-016(a)-99	C-21-009	NONE REPORTED										
21-016(a)-99	C-21-012	NONE REPORTED										

Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites

LANL ERS NO.	WPE NO.	RAD CAT CD	RCRA/CAT CD	FINAL CLASSIF	WDR #	RCRA CODE	TIME (hr)	WEIGHT (kg)	DATES DISP REQUEST SIGNED	RAD ISO TOX CURIES	PROCESS	RELEASE SITE
21-016(a)	22084	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3001565		0.79	773.39	11/7/1995	AM241, N/A; CS137, N/A; H3, N/A; PU238, N/A; PU239, N/A; SR90, N/A; U234, N/A; U235, N/A; U238, N/A; AM241, N/A; CS137, N/A; H3, N/A; PU238, N/A; PU239, N/A; SR90, N/A; U234, N/A; U235, N/A; U238, N/A; AM241, N/A; CS137, N/A; H3, N/A; PU238, N/A; PU239, N/A; SR90, N/A; U234, N/A; U235, N/A; U238, N/A; AM241, N/A; CS137, N/A; H3, N/A; PU238	DECONTAMINATION WATER FROM BOREHOLES DRILLED AT MDA-T FORMER BUILDING TA-21-35.	LANL TA-50 RLWTF
21-016(a)	22083	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3001564; 3002184		2.10	2,526.55	11/7/1995; 3/11/1996	AM241, 1.00E-03; CS137, 5.30E-06; H3, N/A; PU238, 7.20E- 05; PU239, 1.10E-03; SR90, 1.90E-06; U234, 1.80E-07; U235, 1.10E-08; U238, 5.60E-08; AM241, 1.00E-03; CS137, 5.30E-06; H3	DRILL CUTTINGS FROM BOREHOLES AT MDA-T FORMER BUILDING TA-21- 35.	LANL TA-54 Area G Pit 38
21-016(a)	22754	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3002583, 3002184; 3001564		0.21	9.07	5/15/1996; 3/11/1996; 11/7/1995	AM241, 1.60E-06; CS137, 7.00E-09; H3, N/A; PU239, 1.10E- 07; PU240, 1.50E-06; SR90, 3.80E-09; U234, 3.10E-10; U235, 2.00E-11; U238, 7.70E-11; AM241, 1.60E-06; CS137, 7.00E-09; H3, N/A; PU239, 1.10E- 07; PU240, 1.50E-06; SR90, 3.80E-09; U234, 3.10E-10; U235, 2.0	TRASH GENERATED DURING MDA-T RFI	LANL TA-54 Area G Pit 38
21-016(a)	26285	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3004734		0.51	462.67	6/26/1997	H3, N/A; H3, N/A; H3	EQUIPMENT DECONTAMINATION FLUIDS GENERATED DURING THE DRILLING AND SAMPLING ACTIVITIES FOR THE MDA-T RFI PERFORMED FOR THE LANL ER PROJECT.	LANL TA-21 RLWTF

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

LANL PRS NO	WPT NO	RAD CAT CD	RCRA CAT CD	FINAL CLASSIF	WORK F	RCRA CODES	VOLUME (m ³)	WEIGHT (kg)	DATE DISP REQUEST SIGNED	RAD ISOTOPE ACTIVITIES		
21-016(a)	26427	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3004736		0.14	113.40	10/28/98	AM241, 2.40E-04; PU239, 3.20E-04	NON-COMPACTIBLE EQUIPMENT CONTAMINATED WITH LOW LEVELS OF RAD AS RESULT OF RFI ACTIVITIES CONDUCTED @ MDA-T, TA-21 FOR ER PROJECT. MATERIAL IS CHARACTERIZED BASED ON ACCEPTABLE KNOWLEDGE OF ITS USE DURING RFI AND ANALYTICAL RESULTS OF SOIL SAMPLES.	LANL TA-54, Area G, Pit 15
21-016(a)	26287	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3004791; 3004833; 3004832		4.22	5,008.20	7/10/1997; 7/17/1997; 7/17/1997	AM241, 1.43E-03; H3, N/A; PU239, 1.82E-03; PU240, 1.82E-03; TH234, 6.36E-04; AM241, 1.43E-03; H3, N/A; PU239, 1.82E-03; PU240, 1.82E-03; TH234, 6.36E-04; AM241, 1.43E-03; H3, N/A; PU239, 1.82E-03; PU240, 1.82E-03; TH234, 6.36E-04; AM241, 1.43E-03; H3, N/A; PU239	BOREHOLE CUTTINGS, CORE, AND RETURNED SAMPLES GENERATED DURING DRILLING AND SAMPLING RFI ACTIVITIES FOR THE LANL ER PROJECT. THE RFI WAS CONDUCTED AT MDA-T (TA-21). ALL MATERIAL IS CHARACTERIZED BASED UPON LABORATORY SAMPLE ANALYTICAL RESULTS.	LANL TA-54 Area G Pit 38
21-017(a)-99	21-017(a)											
21-017(a)-99	21-022(f)											
21-017(a)	32227		NHCW	LOW LEVEL RADIOACTIVE WASTE	3009524		0.17	163.30	3/17/2000	H3, 5.00E-08; PU239, 5.00E-09	DECON WATERS FROM MDA U,NO REACTOR /ACCELERATOR PRODUCED WASTES.	LANL TA-21 RLWTF
21-017(a)	32559		NHCW	LOW LEVEL RADIOACTIVE WASTE	3009924		0.21	23.59	6/20/2000	H3, 5.00E-10; PU239, 5.00E-11	EMPTY DRUM FROM TRANSFER OF DECONTAMINATION FLUID FROM MDA U.	LANL TA-54 Area G Pit 15

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

LANL PRLS NO.	WPP NO.	RAD CAT CD	RCRA CAT CD	FINAL CLASSIF.	WDR #	RCRA CODES	VOLUME (m ³)	WEIGHT (kg)	DATES DIS- POSITIVE REQUEST SIGNED	RADIATION CURIES	PROCESS	RELEASE SITE
21-017(a-c)	31166		NHCW	LOW LEVEL RADIOACTIVE WASTE	3008540; 3009667; 3008534		2.91	3,039.12	9/21/1999; 4/11/2000; 9/21/1999	AM241, 1.40E-07; H3, 6.40E-07; PU238, 3.50E-09; PU239, 7.90E-08; SR90, 1.40E-07; U234, 3.10E-06; U235, 1.70E-07; U238, 2.60E-07; AM241, 1.40E-07; H3, 6.40E- 07; PU238, 3.50E-09; PU239, 7.90E-08; SR90, 1.40E-07; U234, 3.10E-06; U235, 1.70E-07; U238, 2.60E	SWMU 21-017 (A-C), MDA U DRILL CUTTINGS FROM RADIOACTIVELY- CONTAMINATED BOREHOLES MDA U- 1 THRU 8 GENERATED BY ER SAMPLING ACTIVITIES.	LANL TA-54 Area G Pit 38
21-017(a-c)	31124		NHCW	LOW LEVEL RADIOACTIVE WASTE	3008541		1.67	306.18	9/22/1999	AM241, 2.10E-10; H3, 9.70E-10; PU238, 5.00E-12; PU239, 1.20E-10; SR90, 2.10E-10; U234, 4.70E-09; U235, 2.70E-10; U238, 4.00E-10; AM241, 2.10E-10; H3, 9.70E- 10; PU238, 5.00E-12; PU239, 1.20E-10; SR90, 2.10E-10; U234, 4.70E-09; U235, 2.70E-10; U238, 4.00E	SWMU 21-017(A-C), PPE, PLASTIC SHEETING, AND SAMPLING SUPPLIES FROM ER SUBSURFACE SAMPLING ACTIVITIES INVESTIGATING MDA U. PPE, ETC. CAME IN CONTACT WITH DRILL CUTTINGS FROM BOREHOLES MDA U-1 THRU 8.	LANL TA-54 Area G Pit 38
33-001(a)-99	33-001(a)										NONE REPORTED	
33-001(a)-99	33-001(a)-99										NONE REPORTED	
33-001(a)-99	33-001(b)										NONE REPORTED	
33-001(a)-99	33-001(c)										NONE REPORTED	
33-001(a)-99	33-001(d)										NONE REPORTED	
33-001(a)-99	33-001(e)										NONE REPORTED	
33-002(a)-99	33-002(a-e)											

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

LANL PRS NO.	WASTE NO.	RAD. CAT. CD	RCRA CAT. CD	FINAL CLASSIF.	IDW	RCRA CODES	VOLUME (m ³)	WEIGHT (kg)	DATE DISPOSED	RAD. ISOTOPES	DESCRIPTION	LOCATION
33-002(a)	27605		NHCW	LOW LEVEL RADIOACTIVE WASTE	3005667; 3006142		1.51	1,632.96	1/28/1998; 4/27/1998	H3, 2.20E-04; U234, 1.80E-06; U235, 8.80E-08; U238, 1.90E-06; H3, 2	THIS WASTE IS A SLUDGE REMOVED FROM THE SEPTIC TANK ASSOCIATED WITH PRS 33-002 (A). THIS SEPTIC TANK SERVED FLOOR DRAINS, SINKS, AND BATHROOMS IN BUILDING TA-33-86 UNTIL IT WAS DISCONNECTED IN SEPTEMBER 1997.	LANL TA-54 Area G Pit 39
33-002(a)	28638		NHCW	LOW LEVEL RADIOACTIVE WASTE	3006202		0.40	68.04	5/8/1998	H3, 7.70E-07	THIS WASTE IS PPE AND IDW (PLASTIC, TARP, BROOM, BRUSH, ETC.) CONTAMINATED WITH TRITIATED SLUDGE DURING THE CONTAINERIZATION OF WASTES FROM THE SEPTIC TANK ASSOCIATED WITH PRS 33-002 (a).	LANL TA-54 Area G Pit 38
33-002(a)	30789		NHCW	LOW LEVEL RADIOACTIVE WASTE	3008458		3.00	1,814.40	9/3/1999	H3, 4.50E-05; PU239, 1.73E-06	ER PROJECT SWMU 33-002(a) CORE FROM BOREHOLES 1,2, AND 3 AND OTHER RADIOACTIVE SAMPLES THAT HAVE BEEN EXCESSED BY THE ER FIELD SUPPORT FACILITY.	LANL TA-54 Area G Pit 38
33-002(a)	22530	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3001711		0.42	136.08	12/11/1995	H3, 3.40E-04; H3, 3.40E-04	DUST FILTERS FROM DRILLING EQUIPMENT DURING TA-33 MDA-K DRILLING OPERATIONS SUPPORTING THE ER PROJECT RFI SAMPLING.	LANL TA-54 Area G Pit 38

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

LANL PRS NO	WPF NO	RAD CAT CD	RCRA CAT CD	FINAL CLASSIF	WOR #	RCRA CODES	VOLUME (m3)	WEIGHT (kg)	DATE DISP REQUEST SIGNED	RAD ISOTOPES (CURIES)	PROC DESCRIPTION	RES -
33-002(a)	22532	NON	NHCW	NEW MEXICO SPECIAL WASTE	3003340	NONE	0.04	68.04	9/17/1996		OIL CONTAMINATED SOIL AT MDA-K DURING DRILLING ACTIVITIES. LEAKIN DRILLING EQUIPMENT CAUSED SPILL OF HYDRAULIC FLUID.	RES - Colorado
33-002(a-e)	21151	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3001550		5.83	5,791.56	11/3/1995	GAMMA, 2.79E-07; GRALPH, 2.64E-09; GRBETA, 3.02E-08; H3, 9.44E-06; GAMMA, 2.79E-07; GRALPH, 2.64E-09; GRBETA, 3.02E-08; H3, 9.44E-06; GAMMA, 2.79E-07; GRALPH, 2.64E-09; GRBETA, 3.02E-08; H3, 9.44E-06; GAMMA, 2.79E-07; GRALPH, 2.64E-09; GRBETA, 3.02E-08	DECONTAMINATION LIQUID WASTE GENERATION DURING TA-33 DRILLING OPERATIONS SUPPORTING THE ER PROJECT RFI SAMPLING.	LANL TA-50 RLWTF
33-003(a)-99	33-003(a)	NONE REPORTED										
33-003(a)-99	33-003(a)-99	NONE REPORTED										
33-003(a)-99	33-003(b)	NONE REPORTED										
33-002(a)-99	33-010(f)	NONE REPORTED										
35-001	35-001	NONE REPORTED										
35-002	35-002	NONE REPORTED										
35-003(d)	35-003(d)	NONE REPORTED										
35-003(r)	35-003(r)	NONE REPORTED										
35-010(a)	35-010(a)											

Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites

LAND PRS_NO	WPF_NO	RAD_CAT_CD	RCRA_CAT_CD	FINAL_CLASSIF	WDR #	RCRA CODES	VOLUME (m3)	WEIGHT (kg)	DATES DISP REQUEST SIGNED	RAD ISOTOPES TCURIES	PROCESS_DESC
	NONE REPORTED										
35-010(b)	35-010(b)										
	NONE REPORTED										
35-010(c)	35-010(c)										
	NONE REPORTED										
35-010(d)	35-010(d)										
	NONE REPORTED										
35-010(e)	35-010(e)										
	NONE REPORTED										
36-001	36-001										
	NONE REPORTED										
39-001(b)	39-001(b)										
	NONE REPORTED										
39-004(a)	39-004(a)										
	NONE REPORTED										
39-004(b)	39-004(b)										
	NONE REPORTED										
39-004(c)	39-004(c)										
	NONE REPORTED										
39-004(d)	39-004(d)										
	NONE REPORTED										
39-004(e)	39-004(e)										
	NONE REPORTED										
39-008	39-008										
	NONE REPORTED										
46-004(a2)	46-004(a2)										
	NONE REPORTED										
46-004(b2)	46-004(b2)										
	NONE REPORTED										
46-004(c2)	46-004(c2)										
	NONE REPORTED										
46-004(g)	46-004(g)										
	NONE REPORTED										

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

LANL PRS. NO.	WFE NO.	RAD. CAT. CD.	RCRA DAT. CD.	FINAL CLASSIF.	WDR #	RCRA CODES	VOLUME (m ³)	WEIGHT (kg)	DATES DISP. REQUEST SIGNED	RAD. ISOTOPE CURIES	ISOTOPE DES.	
46-004(h)	46-004(h)	NONE REPORTED										
46-004(m)	46-004(m)	NONE REPORTED										
46-004(q)	46-004(q)	NONE REPORTED										
46-004(s)	46-004(s)	NONE REPORTED										
46-004(u)	46-004(u)	NONE REPORTED										
46-004(v)	46-004(v)	NONE REPORTED										
46-004(x)	46-004(x)	NONE REPORTED										
46-004(y)	46-004(y)	NONE REPORTED										
46-004(z)	46-004(z)	NONE REPORTED										
49-001(a)	49-001(a)	29454		NHCW	LOW LEVEL RADIOACTIVE WASTE	3006916; 3006919; 3009505	0.11	24.95	11/4/1998; 11/4/1998; 3/15/2000	AM241, 5.27E-05; PU238, 2.32E-07; PU239, 1.31E-05; PU240, 1.31E-05; U234, 8.21E-04; U235, 1.74E-04; U238, 9.95E-03; AM241, 5.27E-05; PU238, 2.32E-07; PU239, 1.31E-05	WASTE GENERATED BY REMOVAL OF TOP 12" OF SOIL CONTAMINATED WITH U-234, U-235, AND U-238, INCLUDING: 98% MESA TOPSOIL AND 2% CONSISTING OF TWO 5-GALLON PLASTIC BUCKETS, TWO LARGE PLASTIC BAGS, AND MINOR AMOUNTS OF DUCT TAPE.	LANL TA-45 Area G Pit 38
49-001(b)	49-001(b)	29346		NHCW	LOW LEVEL RADIOACTIVE WASTE	3009502	0.62	45.36	3/15/2000	H3, 4.10E-06; H3, 4.10E-06; H3, 5.50E-06	USED SAMPLING SUPPLIES FROM TA-49, AREA 2 RFI SOIL SAMPLING. SUPPLIES CONSISTED OF NITRILE/LATEX GLOVES, LATEX BOOTIES, PLASTIC SAMPLE SCOOPS, ALUMINUM PANS, TYVEX COVERALLS, AND PAPER TOWELS.	LANL TA-45 Area G Pit 38

Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites

LANL PRS NO	WPF NO	RAD CAT CD	RCRA CAT CD	FINAL CLASSIF	WOR #	RCRA CODES	VOLUME (m3)	WEIGHT (kg)	DATES DISR REQUEST SIGNED	RAD ISOTOPES CURIES	PROCESS DESC	LANL TA-45 Area G Pit 38
49-001(b)	29118		NHCW	LOW LEVEL RADIOACTIVE WASTE	3009506		0.20	70.31	3/16/2000	H3, 2.10E-05	THE WASTE CONSISTS OF SOIL (FILL MATERIAL) IN PLASTIC BAGS approx 25% AND 75% PPE, PLASTIC SHEETING FROM THE CORE HOLE #2 PLUG AND ABANONMENT ACTIVITY, AND SAMPLING SUPPLIES.	LANL TA-45 Area G Pit 38
49-001(b)	28992		NHCW	LOW LEVEL RADIOACTIVE WASTE	3006785; 3006789; 3006788; 3006786; 3006783; 3006782; 3006780; 3006779; 3006776; 3006775; 3009503		30.00	53,342.47	9/9/1998; 9/9/1998; 9/9/1998; 9/9/1998; 9/9/1998; 9/9/1998; 9/9/1998; 9/9/1998; 9/9/1998; 9/9/1998; 9/9/1998	AM241, 6.76E-07; H3, 5.41E-03; PU238, 1.25E-07; PU239, 3.03E-07; PU240, 3.03E-07; U234, 8.69E-06; U235, 3.38E-07; U238, 8.86E-06; AM241, 6.76E-07; H3, 5.41E-03; PU238, 1.25E-07;	A 125' X 150' BY APPROXIMATELY 6" THICK ASPHALT PAD WILL BE REMOVED FROM TA-49, MDA AB, AREA 2 AS A BEST MANAGEMENT PRACTICE. THE WASTE CONSISTS OF A FINE ASPHALT MATRIX WITH GRAVEL RANGING IN SIZE FROM <1CM TO 5 TO 6 CM.	LANL TA-45 Area G Pit 38
49-001(b) 49-008(d)	29117		NHCW	LOW LEVEL RADIOACTIVE WASTE	3009503		0.11	29.48	3/15/2000	U235, 1.80E-07; U238, 1.00E-06	THIS WASTE STREAM CONSISTED MOSTLY OF RAD VAN SOIL SAMPLES COLLECTED FROM AREAS 2 & 12 AT TA-49 AND CEMENT GROUT. THERE IS ALSO PLASTIC DRUM LINERS AND BAGGIES, AND LESS THAN 5% EACH OF RODENT FECES, ALUMINUM PANS, AND DUCT TAPE.	LANL TA-50 RLWTF
49-001(b) 49-008(d)	32636		NHCW	LOW LEVEL RADIOACTIVE WASTE	3010190		2.44	997.92	7/19/2000	AM241, 1.80E-05; CS137, 3.80E-07; H3, 3.90E-06; PU238, 1.20E-06; PU239, 4.90E-05; AM241, 2.10E-05; CS137, 4.50E-07; H3, 4.60E-06; PU238, 1.40E-06; PU239, 5.70E-05; AM241, 2.70E-05	CORE (IN CORE BOXES) FROM BOREHOLES INSTALLED AT TA-49	LANL TA-45 Area G Pit 15
49-001(c)	49-001(c)										NONE REPORTED	
49-001(d)	49-001(d)										NONE REPORTED	
49-001(e)	49-001(e)										NONE REPORTED	
49-001(f)	49-001(f)										NONE REPORTED	
49-001(g)	49-001(g)										NONE REPORTED	
50-009	50-009											

**Appendix B
ER-Generated Waste Streams for the 108 Potential Release Sites**

WASTE STREAM NO.	WASTE NO.	RADIOACTIVE CD	RCRA CD	WASTE CLASS	WASTE ID	ACTIVITY CODE	QTY	WEIGHT (KG)	DATE	RADIOACTIVE ISOTOPES	DESCRIPTION	RELEASE SITE
50-009	32789		NHCW	LOW LEVEL RADIOACTIVE WASTE	3010706		5.41	7,076.16	9/13/2000	AM241, 7.40E-09; H3, 1.10E-05; PU238, 1.40E-09; PU239, 3.80E-09; U234, 4.60E-07; U235, 6.00E-08; U238, 3.70E-07; AM241, 7.40E-09; H3, 1.10E-05; PU238, 1.40E-09; PU239, 3.80E-09	DRILL CUTTINGS FROM THE INSTALLATION OF PORE-GAS MONITORING EQUIPMENT AT TA-50, MATERIAL DISPOSAL AREA (MDA).C. CUTTINGS GENERATED FROM CLEANING/REMAINING OF EXISTING BOREHOLE 50-9100. CUTTINGS ARE PACKAGED IN PLASTIC DRUM LINERS ALONG WITH <_1% PPE (GLOVE	LANL TA-45 Area G Pit 39
50-009	24481	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3003103		3.01	2,528.82	8/8/1996	H3, N/A; SR90, 2.26E-07; H3, N/A; SR90, 1.27E-07; H3, N/A; SR90, 9.47E-08; H3, N/A; SR90, 1.60E-07; H3, N/A; SR90, 1.93E-07; H3, N/A; SR90, 2.26E-07; H3, N/A; SR90, 2.26E-07; H3, N/A; SR90, 2.58E-07	DRILL (BOREHOLE) CUTTINGS FROM FIELD INVESTIGATION OF MDA-C (OU 1147).	LANL TA-45 Area G Pit 39
50-009	24603	LLR	NHCW	LOW LEVEL RADIOACTIVE WASTE	3003103		0.42	68.04	8/8/1996	H3, N/A; SR90, 4.50E-08; H3, N/A; SR90, 5.23E-08	PPE, PLASTIC, EMPTY JARS AND TRASH GENERATED DURING FIELD INVESTIGATIONS OF MDA-C.	LANL TA-45 Area G Pit 39
50-009, 54-004 54-005	28619		NHCW	LOW LEVEL RADIOACTIVE WASTE	3006219		0.11	68.04	5/12/1998	AM241, 1.20E-08; CO60, 2.10E-08; CS137, 5.20E-08; H3, 6.80E-05; PU238, 9.50E-10; PU239, 5.40E-09; SR90, 5.40E-08; U234, 6.80E-08; U235, 1.50E-08; U238, 9.50E-08	SAMPLES FROM DRILLING ACTIVITIES AT MDC C,H,J. DATA WAS TAKEN FROM EXPIRED PROFILES WPF 23650 & WPF 24481, AND RFI REPORT 50-009, MDAC. SAMPLE REMNANTS WERE FROM BOREHOLES 50-9100 THROUGH 50-9110 AND 54-1019 THROUGH 54-1026.	LANL TA-45 Area G Pit 38

APPENDIX C

WASTE STREAM INFORMATION ON CONTAINERS RETRIEVED FROM MATERIAL DISPOSAL AREA P

Hard copies of this document were provided to
the New Mexico Environment Department.