

General

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*Environmental, Safety & Health Division*

**Site-Wide Issues Program Office**

P.O. Box 1663, Mail Stop M889  
Los Alamos, New Mexico 87545  
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Date: September 27, 2001  
Refer To: ESH-SWI:01-032

Ted Taylor  
U.S. Department of Energy  
Los Alamos Area Office  
528 35<sup>th</sup> Street  
Los Alamos, NM 87544



**SUBJECT: Environmental Baseline Survey for Manhattan Monument Tract**

Dear Ted:

Please find enclosed five (5) copies of the Environmental Baseline Survey for Miscellaneous Manhattan Monument Tract. This document is being provided to DOE as information for the projected transfer of land in accordance with Public Law 105-119.

As per your request of September 26, 2001, I have enclosed a list of Environmental Restoration Project documents pertinent to this tract.

If we can be of further assistance, please do not hesitate to call me at 505-665-8969.

Sincerely,

A handwritten signature in cursive script that reads 'D. Garvey'.

Doris Garvey  
Program Manager

DG:pm

Enclosures: a/s

Cy:  
P. Wardwell, LC-GL, A187  
K. Rea, ESH-SWI, M889  
SWI Admin File



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## Miscellaneous Manhattan Monument Tract

### Environmental Restoration Project Documents

#### General Documents Applicable to all Tracts:

*Environmental Restoration Report to Support Land Conveyance and Transfer Under Public Law 105-119, August 1999(LA-UR-99-4187).*

*Summary of ER Activities to Support Land Conveyance and Transfer at Los Alamos National Laboratory Under Public Law 105-119, August 1999(LA-UR-99-1018).*

*Conveyance and Transfer Plan for Certain Land Tracts Administered by the U.S. Department of Energy Located at the Los Alamos National Laboratory, Los Alamos and Santa Fe Counties, New Mexico, Report to Congress Under Public Law 105-119, September 2000.*

*Combined Data Report to Congress to Support Land Conveyance and Transfer Under Public Law 105-119, January 2000.*

#### Manhattan Monument Tract Specific Documents:

*RFI Work Plan for Operable Unit 1079, May 1992 (LA-UR-92-0850) potential pertinence (Manhattan Monument and Site 22 parcels are located within this Operable Unit)*

**Environmental Baseline Survey**  
**for**  
**Miscellaneous Manhattan Monument Tract**

Pursuant to the US Department of Energy  
Cross-Cut Guidance on Environmental Guidance  
for DOE Real Property Transfers

September 21, 2001

**Environmental Baseline Survey**  
**for**  
**Miscellaneous Manhattan Monument Tract**

**Executive Summary**

This document, “Environmental Baseline Survey for Miscellaneous Manhattan Monument Tract”, was prepared in accordance with “Cross-Cut Guidance on Environmental Requirements for DOE Real Property Transfers” in preparation of transferring ownership of the Miscellaneous Manhattan Monument Tract (hereafter referred to as Manhattan Monument) at Los Alamos National Laboratory from the US Department of Energy (DOE) to Los Alamos County pursuant to Public Law 105-119, Section 632. It discusses DOE compliance with environmental requirements associated with real property transfers. It also demonstrates that, although potentially contaminated, Manhattan Monument is in such condition that DOE may issue deeds on the basis that “all remedial action necessary to protect human health and the environment have been taken”.

The methodology used to prepare this report was to:

- conduct an environmental site assessment of Manhattan Monument consistent with American Society of Testing and Materials (ASTM) “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process” (ASTM E 1527-00) (see Appendix B),
- review historical and current information and documents pertinent to Manhattan Monument,
- perform a physical examination of the Manhattan Monument, and
- consult with both University of California and DOE staff to confirm existing information or develop additional information.

Based on this assessment, it has been determined that Manhattan Monument, although potentially contaminated by activities conducted in the late 1940s and early 1950s at or near this location, has:

- no potential release sites (PRSs) within its boundaries,
- no record that hazardous substances were ever stored at this site (Appendix A), and
- no requirements for future remedial clean-up activities.

Analyses indicate that air quality is good, affected mostly by traffic on nearby Trinity Drive.

There are no known springs or wetlands within Manhattan Monument boundaries, nor are there regional aquifer groundwater test or supply wells within the tract or within a distance of 0.5 miles of the tract. No surface or groundwater contamination is known to

exist at Manhattan Monument, and Manhattan Monument does not lie within the 100-year or 500-year floodplains.

Habitat for threatened and endangered species does not exist at the Manhattan Monument.

A complete archaeological survey of Manhattan Monument did not reveal prehistoric resources, and no known traditional cultural properties (TCPs) exist. The Monument itself is a contributing element of the Los Alamos Scientific Laboratory National Historic Landmark, which was created in 1966. Under the Criteria of Adverse Effect (36 Code of Federal Regulations [CFR] 800.5(a)(1)), the transfer, lease, or sale of a National Register of Historic Places (NHRP) eligible resource is an adverse effect. Because the Manhattan Monument is a contributing element of a National Historic Landmark, it would be directly impacted by the Federal action. Land use proposed for this site would result in the continued historic preservation of the tract. Stewardship of the site would require that landscaping and other routine maintenance activities be performed on an as-needed basis. The Miscellaneous Manhattan Monument Tract would not be further developed, and the general public would have unrestricted access to the site and its surrounding area.

Based on this information, the University of California and DOE conclude that there are no outstanding environmental issues to prevent conveyance or transfer of Manhattan Monument to Los Alamos County.

## Table of Contents

Executive Summary .....	2
1.0 Purpose of the Environmental Baseline Survey .....	5
1.1 Boundaries of Property and Scope of Survey .....	5
2.0 Survey Methodology .....	5
2.1 Approach and Rationale .....	6
2.1.1 List and Description of Documents Reviewed.....	6
2.1.2 Inspections of Properties Conducted and Personnel Contacted .....	8
3.0 Summary of Data .....	8
3.1 History and Current Use.....	9
3.2 Environmental Setting.....	9
3.2.1 Stormwater Runoff Patterns .....	9
3.2.2 Hazardous Materials and Waste Management .....	9
3.2.3 CERCLA-Related Contamination.....	9
3.2.4 Storage Tanks and Pipelines .....	10
3.2.5 Wastewater Treatment and Disposal.....	10
3.2.6 Lead in Drinking Water.....	10
3.2.7 Oil Water Separator.....	10
3.2.8 Asbestos .....	10
3.2.9 Air.....	10
3.2.10 Lead-Based Paint Surveys and Other Sources of Lead .....	10
3.2.11 PCBs.....	10
3.2.12 Pesticides .....	11
3.2.13 Medical Wastes .....	11
3.2.14 Ordnance .....	11
3.2.15 Radioactive Materials and Wastes .....	11
3.2.16 Radon .....	11
3.2.17 Groundwater.....	11
3.3 Natural and Cultural Resources.....	11
3.4 Identification of Uncontaminated Properties .....	12
3.5 All Other Properties .....	12
4.0 Summary of Data for Adjacent Properties .....	12
4.1 History and Current Use.....	12
4.2 Environmental Setting.....	12
4.3 Adjacent Properties with No Known or Suspected Releases .....	12
4.4 Adjacent Properties with Known or Suspected Releases .....	13
5.0 Conclusions and Recommended Courses of Action .....	13
5.1 Facility Matrix.....	13
5.2 Property Categorization.....	13
5.3 Resource Map.....	13
6.0 Certification of Environmental Baseline Survey .....	13
Appendix A – CERCLA 120(h).....	
Appendix B – Environmental Assessment.....	
Appendix C – Environmental Restoration CERCLA Report.....	
Appendix D – Site Map.....	

## **1.0 Purpose of the Environmental Baseline Survey**

On November 26, 1997, Congress passed Public Law 105-119. Section 632 of that law directed the Secretary of Energy to convey to the Incorporated County of Los Alamos, NM, or to the designee of the County and transfer to the Secretary of the Interior, in trust for the Pueblo of San Ildefonso, parcels of land under jurisdictional administrative control of the Secretary at or in the vicinity of Los Alamos National Laboratory. Such parcels, or tracts, of land must meet suitability criteria established by the law, that is, they are not required for the national security mission before the end of the 11/26/2007; can be restored or remediated by 11/26/2007; and are suitable for historic, cultural or environmental preservation, economic diversification, or community self-sufficiency. The DOE identified 10 tracts of land for potential transfer to the County of Los Alamos or to San Ildefonso Pueblo.

DOE's "Cross-Cut Guidance on Environmental Requirements for DOE Real Property Transfers (DOE/EH-413/9712) provides guidance on types of information needed to support real property transfers. Information such as presence of floodplains and wetlands; critical habitats; historic properties; and hazardous substances must be gathered and provided to potential recipients of the property. This document provides relevant environmental information as outlined in the Cross-Cut Guidance and provides references to more detailed information.

### **1.1 Boundaries of Property and Scope of Survey**

The Miscellaneous Manhattan Monument Tract (hereafter called the Manhattan Monument) is located on less than 0.5 acre adjacent to Ashley Pond in the center of Los Alamos townsite (see Figure, Appendix D). Access to the site is available from Trinity Drive. The property is described in general terms as being bounded on the South by Trinity Drive and on the East, North and West by a public park owned by the County of Los Alamos.

The legal property boundary description of this tract is provided by the Army Corps of Engineers Title Report, "Trinity Monument Historic Site at Los Alamos, New Mexico", September 15, 1998. The Army Corps of Engineers conducted a physical survey of the property in 2001, and based on this survey may revise the description to meet all legal requirements for transfer.

The scope of this Environmental Baseline Survey was to identify potential environmental issues associated with the Manhattan Monument that might impact transfer of ownership.

## **2.0 Survey Methodology**

The methodology used to prepare this report was to:

- conduct an environmental site assessment of Manhattan Monument consistent with American Society of Testing and Materials (ASTM) “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process” (ASTM E 1527-00) (see Appendix B),
- review historical and current information and documents pertinent to Manhattan Monument,
- perform a physical examination of Manhattan Monument, and
- consult with both University of California and DOE staff to confirm existing information or develop additional information.

## **2.1 Approach and Rationale**

Historical and current information (see 2.1.1 below) for the Manhattan Monument was reviewed, and the site was physically visited and surveyed. After determining the nature and quality of available information, UC and DOE staff were consulted to confirm existing information or develop new information as needed. Collectively, this survey addressed air quality, water quality (surface and groundwater), soil and sediment contamination, and any structures, waste sites, natural resources or other environmental concerns present at the site.

To conduct this assessment it was assumed that the Manhattan Monument parcel boundaries were established and not subject to significant change. Environmental conditions and associated information were evaluated based upon those boundaries. Second, it was assumed that the nature and quality of the document reviews and site surveys were independent of, and unaffected by, the recipients’ intended use as identified in the “Conveyance and Transfer Plan for Certain Land Tracts Administered by the U.S. Department of Energy Located at the Los Alamos National Laboratory, Los Alamos and Santa Fe Counties, New Mexico” (DOE September 2000). Lastly, it was assumed that a final inspection or “walk-through” of each parcel would occur prior to conveyance or transfer.

### **2.1.1 List and Description of Documents Reviewed**

In addition to the documents listed below, the Environmental Site Assessment (Appendix B) identifies additional resources used in this evaluation.

1. “Final Site-Wide Environmental Impact Statement for Continued Operation of Los Alamos National Laboratory”, US Department of Energy, DOE/EIS-0238, January 1999.
2. “Final Environmental Impact Statement for the Conveyance and Transfer of Certain Tracts Administered by the US DOE and Located at Los Alamos National Laboratory”, US Department of Energy, DOE/EIS-0293, October 1999

3. "Final Environmental Restoration Report to Support Land Conveyance and Transfer under Public Law 105-119", Los Alamos National Laboratory, LA-UR-99-4187, August 1999
4. "Combined Data Report to Congress to Support Land Conveyance and Transfer under Public Law 105-119", US Department of Energy, Unnumbered Report, January 2000.
5. "Conveyance and Transfer Plan for Certain Land Tracts Administered by the U.S. Department of Energy Located at the Los Alamos National Laboratory, Los Alamos and Santa Fe Counties, New Mexico", U.S. Department of Energy, Report to Congress Under Public Law 105-119, Unnumbered Report, September 2000.
6. "Trinity Monument Historic Site at Los Alamos, New Mexico", U.S. Army Corps of Engineers Title Report, September 15, 1998.
7. LANL Hazardous Waste Facility Permit, NM 0890010515-1, 11/8/89
8. "Environmental Surveillance at Los Alamos During 1999", Los Alamos National Laboratory, LA-13775-ENV, December 2000.
9. "Cross-Cut Guidance on Environmental Requirements for DOE Real Property Transfers", U.S. Department of Energy, DOE/EH-413/9712, October 1997
10. "Threatened and Endangered Species Habitat Management Plan," Los Alamos National Laboratory, August 1998.
11. "A Status Report on Threatened and Endangered Species, Wetlands, and Floodplains for the Proposed Conveyance and Transfer Tracts at Los Alamos National Laboratory, Los Alamos, New Mexico", Los Alamos National Laboratory, July 1998.
12. LANL Draft Watershed Management Plan
13. LANL Environmental Restoration Project Baseline, WBS 1.4.2.6.01.02.24.JG.
14. "Endangered Species Act", United States Code, Washington, D.C., Title 16, Conservation; Chapter 35, Endanger Species Act, December 1973.
15. A. John Ahlquist, Alan K. Stoker, and Linda K. Trocki, "Radiological Survey and Decontamination of the Former Main Technical Area, TA-1, at Los Alamos, New Mexico," Los Alamos Scientific Laboratory Report LA-6887, December 1977.
16. J.E. Burke, "Minutes of Meetings on Recovery Held Aug. 11, 1945," Los Alamos Scientific Laboratory memorandum to Plant Committee, Aug. 11, 1945.

17. Los Alamos National Laboratory, "H Division Progress Report," October 20- November 20, 1952.
18. Los Alamos National Laboratory, "H Division Progress Report," July 20 – August 20, 1958.

### **2.1.2 Inspections of Properties Conducted and Personnel Contacted**

The Environmental Site Assessment (Appendix B) identifies personnel contacted during this evaluation.

### **3.0 Summary of Data**

The Manhattan Monument is situated in an urbanized portion of the townsite. There are no special provisions required relative to threatened and endangered species, nor does the site contain sensitive habitat. Although potentially contaminated (it was part of the original main technical area of Los Alamos National Laboratory), the Manhattan Monument does not contain contamination as defined by CERCLA 120(h)(4).

The area known as Main Technical Area 1 was a fairly large complex combining features of both experimental laboratory research and industrial operations. Facilities in this technical area handled radionuclides including 238-uranium, 235-uranium, 239-plutonium, tritium, 210-polonium, 232-thorium, 226- radium, 137-cesium, 29-strontium, 241-ameridium, and curium. Non-radioactive materials handled included lithium hydride, beryllium, mercury, iodine, trisodium phosphate, ammonium sulfate, various acids such as hydrochloric, nitric, perchloric, hydrofluoride, and orthophosphoric, and various types of organics (Burke 1945, H-Div 1951, H-Div1952).

The eastern portion of TA-1 was removed between 1953 and late 1959, whereas the remaining western portion and most of the acid-sewer lines extending north from TA-1 were removed during 1964 and 1965.

In the 1960s, the Laboratory relinquished the old TA-1 area for residential and commercial development. A new County Building near Ashley Pond was turned over to the county. Parts of TA-1 south of Trinity Drive were sold as commercial property, and by 1974, office buildings, a motel, gasoline station, and other commercial structures had been built.

Public concern over low-level contamination resulted in a resurvey of portions of TA-1 in 1974. The survey was hampered by development that had occurred on the land. The survey and clean-up lasted until 1976 and are documented in LA-6887. As a result, about 15,000 cubic meters of contaminated or potentially contaminated material was removed to a radioactive disposal site. As contamination was found, it was removed down to low levels of activity, except in several inaccessible locations. Most contamination was associated with old acid waste lines, septic tanks, and other drains; however, some spots were found at which the origin could not be explained. The area surveyed and

decontaminated probably had the highest probability for residual contamination; however, though some surface reconnaissance was done in other areas, the possibility for undetected subsurface contamination on private lands remains.

In addition, Trinity Drive may have some subsurface contamination. LA-6887 reads, "Some contamination may exist in the fill material under Trinity Drive. Construction debris (concrete supports, steam-pipe insulation, etc.) in the fill in the D-Building area was contaminated. The topography is such that debris from other areas could have been pushed over D-Building debris." (LA-6887)

### **3.1 History and Current Use**

The Manhattan Monument contains only one structure, the monument itself. Although no longer associated with any LANL operations, the plaque within the monument structure commemorates the location of the Los Alamos Ranch School "ice house" where components for the atomic bomb were inspected and assembled. The Manhattan Monument is a contributing element of the Los Alamos Scientific Laboratory National Historic Landmark, which was created in 1966.

The Miscellaneous Manhattan Monument Tract is, and will continue to be, used solely as an historic monument. Land use proposed for this site would result in the continued historic preservation of the tract. The general public would continue to have unrestricted access to the site and its surrounding area.

### **3.2 Environmental Setting**

The Manhattan Monument is located within a developed portion of the Los Alamos townsite. It is surrounded by a public park on three sides (North, West, and East), and a road (Trinity Drive) to the South. Immediately across the road is the Los Alamos Inn, a motel development.

#### **3.2.1 Stormwater Runoff Patterns**

Not applicable. There are no surface water features associated with this site. There are no established drainage patterns, and any run-off from storm events enters the park lawn and ultimately Ashley pond.

#### **3.2.2 Hazardous Materials and Waste Management**

Not applicable. No current or historic hazardous waste generation or disposals are associated with this site.

#### **3.2.3 CERCLA-Related Contamination**

None identified (see Appendix A). The Miscellaneous Manhattan Monument Tract contains no potential release sites (PRSs) within its boundaries. The only structure on the

tract is the monument itself, and no remediation or decommissioning is planned for this site. Historical records indicate that the only hazardous materials stored on this site were those associated with the first atomic bomb assembled at this location. No known releases of these material occurred.

#### **3.2.4 Storage Tanks and Pipelines**

None identified. Historical records do not indicate that storage tanks existed at this site. The Environmental Restoration Program continues to investigate waste lines associated with Technical Area 1 (the original technical area in which Manhattan Monument was located); however, none of these pipelines are known to go under the monument or to have resulted in contamination under the monument.

#### **3.2.5 Wastewater Treatment and Disposal**

Not applicable. No current or historic wastewater treatment and disposal facilities are associated with this site.

#### **3.2.6 Lead in Drinking Water**

Not applicable. There are no water resources available at this site, and there are no known sources of potential lead contamination associated with this site.

#### **3.2.7 Oil Water Separator**

Not applicable. No current or historic uses of oil water separators are associated with this site.

#### **3.2.8 Asbestos**

Not applicable. The only structure on site, the monument itself, does not contain asbestos, and no asbestos is known to have been used or buried on site.

#### **3.2.9 Air**

Not applicable. There are no air emissions from the Manhattan Monument, and no air monitoring or air quality permits are required for this site. Air at the Manhattan Monument may be impacted from exhaust from car traffic on Trinity Drive.

#### **3.2.10 Lead-Based Paint Surveys and Other Sources of Lead**

There are no known sources of lead at this site; however, sampling of the paint on the monument itself was not done.

#### **3.2.11 PCBs**

Not applicable. There are no records of PCBs either being used or stored at this site.

### **3.2.12 Pesticides**

Not applicable. There are no records of pesticides being stored at this site. Pesticides may have been used by Los Alamos County to control insects around Ashley pond; however, these would not be expected to accumulate at the site, and the site has not been sampled for pesticides.

### **3.2.13 Medical Wastes**

Not applicable. There are no records of medical wastes being generated or disposed at this site.

### **3.2.14 Ordnance**

Not applicable. There are no records of ordnance being used, stored, or disposed at this site.

### **3.2.15 Radioactive Materials and Wastes**

Not applicable. The only historic record of radioactive materials being stored at this site were those associated with the fully assembled weapon temporarily stored in the "ice house". There were no known releases of material from this weapon, and no records of any other radioactive material being stored or disposed at this site.

### **3.2.16 Radon**

Not applicable. Though naturally occurring radon gas may occur, there is no place for radon to accumulate at this site, and no surveys were conducted.

### **3.2.17 Groundwater**

Not applicable. There are no supply or monitoring wells located on this site, and there is no known contamination at this site that would impact these resources.

## **3.3 Natural and Cultural Resources**

The Manhattan Monument is a contributing element of the Los Alamos Scientific Laboratory National Historic Landmark, which was created in 1966.

Direct impacts of the conveyance or transfer itself would be limited to the transfer of a contributing element of a National Register of Historic Places (NRHP) listed resource out of the responsibility and protection of the DOE. Under the Criteria of Adverse Effect (36 Code of Federal Regulations [CFR] 800.5(a)(1)), the transfer, lease, or sale of NRHP-eligible resources is an adverse effect. Because the Manhattan Monument is a

contributing element of an NRHP-listed resource, it would be directly impacted by the Federal action. In addition, Section 110f of the National Historic Preservation Act requires that Federal agencies exercise a higher standard of care when considering undertakings that may affect National Historic Landmarks.

Land use proposed for this site would result in the continued historic preservation of the tract. Stewardship of the site would require that landscaping and other routine maintenance activities be performed on an as-needed basis. The Miscellaneous Manhattan Monument Tract would not be further developed, and the general public would have unrestricted access to the site and its surrounding area.

There are no known prehistoric or traditional cultural properties present at this site.

### **3.4 Identification of Uncontaminated Properties**

The Manhattan Monument, though potentially contaminated from activities conducted at TA-1 during the late 1940s and early 1950s, does not have environmental contamination as defined by CERCLA 120(h)(4).

### **3.5 All Other Properties**

Not applicable. There are no other properties associated with this site.

### **4.0 Summary of Data for Adjacent Properties**

The adjacent properties currently consist of an adjacent roadway to the South, and a park to the North, West, and East. The Environmental Site Assessment (Appendix B) reviewed the appropriate ASTM records out to a distance of about 1 mile, as appropriate, to identify if hazardous sites or serious local environmental problems may exist on or immediately adjacent to the facility. None were found.

### **4.1 History and Current Use**

The adjacent property was also part of the historic Technical Area 1 or main technical area of Los Alamos National Laboratory during the late 1940s and early 1950s. This land was conveyed to Los Alamos County during the late 1950s and early 1960s and has subsequently been used as a park.

### **4.2 Environmental Setting**

The adjacent lands consist of a roadway and park.

### **4.3 Adjacent Properties with No Known or Suspected Releases**

Not applicable. Though not identified as having environmental contamination as defined by CERCLA 120 (h)(4), these lands were part of the historic Technical Area 1 or main

technical area of Los Alamos National Laboratory during the late 1940s and early 1950s. Several waste lines historically traversed the Ashley Pond area, but these lines were removed by LANL and are not believed to have affected the Manhattan Monument parcel. The Environmental Restoration Program continues to investigate areas of suspected contamination within the townsite, and mitigates these areas when contamination is confirmed at levels requiring action. Though significant clean-up activities have taken place at TA-1, the potential for residual contamination still remains wherever past LANL operations took place.

#### **4.4 Adjacent Properties with Known or Suspected Releases**

See 4.3 above.

#### **5.0 Conclusions and Recommended Courses of Action**

DOE and UC health and safety professionals have reviewed environmental conditions at this parcel and have determined that no special precautions are required.

Based on best available environmental information, the University of California and the Department of Energy conclude that there are no outstanding environmental issues to prevent conveyance or transfer of this tract. DOE may issue deeds on the basis that "all remedial action necessary to protect human health and the environment have been taken".

#### **5.1 Facility Matrix**

Not applicable. There are no structures other than the Monument itself.

#### **5.2 Property Categorization**

Not applicable. All lands at the Manhattan Monument are categorized the same.

#### **5.3 Resource Map**

Not applicable. No hazardous materials were identified, and no wells are located on this property.

#### **6.0 Certification of Environmental Baseline Survey**

Los Alamos National Laboratory staff and Environmental Contractors conducted this Environmental Baseline Survey under direction and guidance of the Site-Wide Issues Program Office. The information contained in this document is accurate to the best of our knowledge.

  
\_\_\_\_\_  
Doris Garvey, Program Manager

# **Appendix A**

## **CERCLA 120h**

## CERCLA 120(h) Report

### Miscellaneous Manhattan Monument Tract

**Location:** Los Alamos Townsite

**Description:** The Miscellaneous Manhattan Monument Tract (hereafter called the Manhattan Monument) is a small, town site parcel (less than 1/10<sup>th</sup> of an acre) that is surrounded by Los Alamos County land and adjacent to Ashley Pond. This parcel consists of a plaque covered by a small pavilion.

**History:** The area around Ashley Pond is where most of the Los Alamos National Laboratory's technical work was conducted during the Manhattan Project. The Monument itself is said to be located on the site of the original "ice house", where the first fully-assembled nuclear weapon was stored prior to use. The Manhattan Monument parcel contains no potential release sites (PRSs) within its boundaries. Several waste lines historically traversed the Ashley Pond area, but these lines were removed by LANL and are not believed to have affected the Monument parcel. The Environmental Restoration Program continues to investigate areas of suspected contamination within the townsite, and mitigates these areas when contamination is confirmed at levels requiring action.

#### **Is there any record of a hazardous substance having been stored on site?**

The historical record suggests that a fully-assembled nuclear weapon was stored on site for a brief period during the 1940s. However, any hazardous substances would have been fully contained within the weapon, and not available for release. There are no other records of hazardous substances having been stored on site.

#### **Was the amount stored greater than or equal to 1,000 kg or the Reportable Quantity, whichever is greater?**

No. There are no records that indicate that any hazardous substance was stored on the Manhattan Monument parcel in amounts greater than 1000 kg or the reportable quantity.

#### **Was the amount disposed of or released greater than or equal to the reportable quantity?**

Not applicable. Historic records do not indicate that hazardous substances were disposed within the Manhattan Monument parcel. If hazardous substances were released from any of the subsurface lines in proximity to the parcel, then such substances might have contaminated the soils beneath the parcel. It is not specifically known whether or not there is any contamination in the subsurface soils of the parcel, itself. However, even if these soils are contaminated, there is no potential for harm to human health for so long as the monument and pavilion remain intact, because there is no realistic mechanism by which exposure to contaminants could occur.

**Current Regulatory Status:** The DOE believes that no further action (NFA) is required at this parcel. The parcel is not included in Module VIII (HSWA Module) of LANL's Hazardous Waste Facility Permit, and it is not subject to regulation or oversight by the New Mexico Environment Department's (NMED) Hazardous and Radioactive Materials Branch (HRMB).

**Future Actions Required:** None.

#### **References:**

*"Environmental Restoration Report to Support Land Conveyance and Transfer under Public Law 105-119," August 1999, LA-UR-4187.*

*"RFI Work Plan for OU 1071,"* Environmental Restoration Project, May 1992, LA-UR-92-810.

# **Appendix B**

## **Environmental Assessment**

# **ENVIRONMENTAL ASSESSMENT**

## **Land Transfer Parcel, Manhattan Monument**

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**Prepared For: THE DEPARTMENT OF  
ENERGY**

**On Behalf of: THE SITE-WIDE ISSUES  
PROGRAM OFFICE**

**September 21, 2001**

## **EXECUTIVE SUMMARY**

This report presents a findings summary for an assessment of the actual and potential environmental concerns associated with the Manhattan Monument parcel located adjacent to Trinity Drive in Los Alamos, NM. Exhibit 1 (at the end of this executive summary) provides a descriptive summary for the Manhattan Monument parcel and Exhibit 2 (also at the end of this executive summary) summarizes the known history of this site. Los Alamos National Laboratory's (LANL) Site-Wide Issues Program Office (SWIPO) conducted its assessment on July 30-31, 2000, and subsequently on September 7, 2001 at the request of the U.S. Department of Energy. The site inspectors for this assignment were Ms. Jennifer Pope and Ms. Virginia Smith.

This assessment (hereafter referred to as an environmental site assessment (ESA)) was conducted pursuant to a scope of work consistent with the American Society of Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-00); an off-site disposal practices review (including evaluating whether the subject site is listed as a potentially responsible party (PRP) at an off-site waste disposal site); and an examination of possible asbestos-containing materials (ACMs). A specific discussion of the tasks undertaken is set forth in Attachment A. LANL performed no soil, groundwater, surface water, air, building material, or other environmental sampling and analysis as part of this assessment.

It is LANL's understanding and agreement that the DOE may provide this report to the recipient of the subject parcel, as well as to the public. The parcel recipient may provide this report to third parties and other financing institutions and institutional lenders connected with the contemplated transaction (including, without limitation, any such party providing financing on or after consummation of the contemplated transaction and all assignees and participants of any of the foregoing), and that these parties may rely on the information in the report to the same extent as and subject to the same restrictions agreed to by DOE.

## **1.2            *LIMITATIONS***

All the information contained in this report, including any engineering conclusions, is based on the information made available to LANL's SWIPO during our investigation, which we assume to have been provided in good faith. This report represents an assessment of the Manhattan Monument parcel performed in accordance with generally accepted industry standards regarding environmental assessments. LANL makes no other representations whatsoever, including those concerning the legal significance of its findings or as to other legal matters touched on in this report, including, but not limited to ownership of any property or the application of any law to the facts set forth herein. Except as otherwise may be requested by DOE, LANL disclaims any obligation to update the report for events taking place after the time during which we conducted our assessment.

**Exhibit 1. Manhattan Monument Parcel Description Summary**

<b># of Acres</b>	<b># of Buildings (approx. total sq. ft)</b>	<b># of Potential Release Sites (and remediation status)</b>	<b>Current Activities</b>
less than 0.1	Monument (less than 0.1 acre).	None.	None.

**Exhibit 2. Manhattan Monument Parcel Site History Summary**

<p><b>Site History Prior to LANL Occupancy</b></p>	<p>Prior to LANL occupancy (pre-1943), there was little development in this remote area. In 1918 Detroit businessman Ashley Pond purchased 800 acres from three homesteaders to begin the Los Alamos Ranch School for Boys. This is the only development in the area prior to LANL occupancy. During this period, most of the Ranch School's development was south of the pond at the center of Los Alamos. Fuller Lodge (built in 1928) and several other buildings were constructed to provide a framework for the school. Aerial photographs of the area and drawings associated with the Los Alamos Ranch School for Boys show a cleared area around the pond with the only development being a constructed "ice house" located at the Manhattan Monument site.</p>
<p><b>Site History After LANL's Occupancy</b></p>	<p>Ashley Pond is where most of the Los Alamos National Laboratory's technical work was conducted during the Manhattan Project. The Monument itself is said to be located on the site of the original "ice house", where the first fully-assembled nuclear weapon was stored prior to use. The Manhattan Monument parcel contains no potential release sites (PRSs) within its boundaries. Several waste lines historically traversed the Ashley Pond area, but these lines were removed by LANL in the 1990's and are not believed to have affected the Monument parcel.</p> <p>Currently, this parcel is surrounded by Los Alamos County recreational area (park) and further development of this site is not anticipated.</p>

**ATTACHMENT A**

**ASSESSMENT METHODOLOGY**

This environmental assessment, consistent with the ASTM Practice E 1527-00 (with added evaluations of ACMs, and possible wetland areas), consisted, in general, of the following steps:

- We met with the following individuals at LANL to discuss parcel-specific environmental and occupational health and safety (EH&S) issues:
  - Mr. Albert Dye, ESH-19, PCB Database Manager;
  - Ms. Debra Archuleta, ESH-17, Asbestos Program Manager
  - Mr. David Ortiz and Ms. Josie Encinias, ESH-5, Asbestos Management Program
  - Ms. Louann Romero, ESH-19, HSTD Database Manager;
  - Mr. Harvey Decker, ESH-18, SPCC and SWPPP Plans;
  - Mr. William Flor, HAZMAT Spills Database Manager;
  - Mr. Terry Rust, Environmental Restoration, Potential Release Sites; and
  - Ms. Jean Dewart, ESH-17, Air Quality Program.
  
- We visited the facility on August 7, 2000, and subsequently on September 7, 2001 to gather more detailed information concerning possible on-site contamination, and to determine the compliance status of the parcel. Before, during and immediately after the first site visit, we interviewed site personnel about past and present site operations, raw materials and waste management practices, and significant environmental liability problems, if any. We did not repeat these interviews in September 2001 because there are no ongoing LANL operations on or near the Manhattan Monument parcel. We also observed actual site conditions in an attempt to identify and assess the status of potential liabilities such as past disposal areas, waste management units and systems, and sites of environmental releases.
  
- We reviewed ES&H-related files, correspondence, and other documents supplied by LANL.
  
- We visited the Los Alamos County Archives office in Los Alamos, NM to review aerial photographs of the area and to collect information on site use prior to the Manhattan Project.
  
- We performed a walk-by and drive-by survey of the immediate neighboring properties in both July 2000 and September 2001 from publicly accessible areas for obvious signs of environmental concerns and how those concerns may have environmentally degraded the property under study, and to assess the proximity of the subject property to sensitive ecological areas (e.g., wetlands).
  
- We reviewed a search of the following computerized environmental databases in September 2001 to determine if hazardous sites or serious local environmental problems may exist on or immediately adjacent to the facility (see radius specifications):<sup>1</sup>

*Federal ASTM Records*

---

<sup>1</sup>The environmental database searches were completed for LANL by Environmental Data Resources. The database-specific radii specified for the searches either match the ASTM E 1527-97 requirements or are larger than specified in E 1527-00.

- Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) (subject site and 0.5-mile radius);
- Emergency Response Notification System (subject site only);
- National Priority List (NPL) and proposed NPL (subject site and 1-mile radius);
- RCRA Corrective Action Sites (CORRACTS) list (subject site and 1-mile radius);
- Resource Conservation and Recovery Information System (RCRIS) (subject site and 0.25-mile radius for generators and 0.5-mile radius for treatment, storage, and disposal facilities); and
- CERCLIS-No Further Remedial Action Planned (CERCLIS-NFRAP) (subject site and 0.25-mile radius).

*Additional Federal Records*

- Biennial Reporting System (subject site only);
- PCB Activity Database System (subject site only);
- RCRA Administrative Action Tracking System (RAATS) list (subject site only);
- Toxic Release Inventory System (subject site only);
- Facility Index Data Base System (FINDs) (subject site only);
- Consolidated Docket Enforcement System (subject site and company name only);
- Hazardous Materials Incident Reporting System (subject site only);
- Delisted NPL Sites (subject site and 1-mile radius);
- Federal Superfund Liens (subject site only);
- Superfund Consent Decrees (subject site and 1-mile radius);
- Toxic Substances Control Act data base (subject site only);
- Materials License Tracking System (subject site only);
- Mines Master Index File (subject site and 0.25-mile radius)
- Records of Decision data base (subject site and 1-mile radius); and
- FIFRA/TSCA Tracking System (FFTS) (subject site only).

*State ASTM Records*

- New Mexico State leaking underground storage tank (UST) database list (subject site and 0.5-mile radius);
- New Mexico State permitted solid waste facilities/landfill sites (subject site and 0.5-mile radius); and
- New Mexico State registered USTs (subject site and 0.25-mile radius).

*Additional State Records*

- New Mexico State Aboveground Storage Tanks (subject site only).
- We attempted to obtain and review historical Sanborn Fire Insurance land use maps to establish past land uses of the subject property and the surrounding area consistent with the requirements of ASTM Practice E 1527-00. Sanborn Fire Insurance land use maps were not available for this facility or the surrounding area.

- We reviewed historical aerial photographs available from public agency sources to establish past land uses of several of the subject properties and the surrounding areas consistent with the requirements of ASTM Practice E 1527-00. Aerial photographs dated 1946, 1950, 1974, and 1991 were available from the Environmental Restoration and Los Alamos County photographic archives.
- We located and reviewed abstracts of available historical city directories to establish past uses of several of the subject properties and the surrounding areas consistent with the requirements of ASTM Practice E 1527-00. A search of the county archives in Los Alamos, yielded no historical or current city directories for Los Alamos that gave addresses for the subject site. In most cases, older city directories listed names and phone numbers without the benefit of the listing address.
- We assessed possible issues of current or future environmental liability. This assessment evaluated operations, both past and present, with respect to: air pollution control (including, but not limited to, applicable requirements of the 1990 Clean Air Act Amendments); asbestos management; water supply and pollution control, including stormwater management; nonhazardous solid waste management; hazardous solid waste management; USTs; materials, products, and pesticide storage and handling practices (including Superfund Amendments and Reauthorization Act (SARA) Title III programs); polychlorinated biphenyls (PCBs) inventory management; past on-site or off-site waste disposal practices; and occupational safety and health (including hazards communication).
- We completed an assessment of the facility's potentially significant liabilities under the Superfund statute and related state statutes pertaining to potential on-site contamination and related to the off-site disposal of wastes.
- LANL performed no soil, groundwater, surface water, air, building material, or other environmental sampling and analysis as part of this environmental assessment. LANL did, however, review environmental surveillance, monitoring, and sampling results that have been collected over time and that were relevant to the parcel.

**ATTACHMENT B**

**ISSUES SUMMARY**

**TABLE Exhibit 3**

**Summary of Environmental Assessment Results for Manhattan Monument  
Adjacent to Trinity Road, Los Alamos, NM**

AREA	ISSUE	COMMENT/RECOMMENDATION/LIABILITY/COST
Air Pollution Control	There is no historical record of air pollutants being emitted from any operation or facility within this parcel.	None.
Asbestos Management	There appear to be no environmental liability issues associated with asbestos management on this parcel.	There appear to be no facilities or structures located, or formerly located, on this land parcel that contain asbestos under the requirements of 29 CFR 1926.1101. No suspect materials were noted during the site inspection.
Water Supply and Pollution Control, Including Stormwater Management	There appear to be no environmental liability issues concerning the water supply to or the wastewater discharges from this parcel.	There is no water supply on this land parcel. Los Alamos County services are available. There are and have been no water supply wells located on-site. There are and have been no wastewater discharged to the County's sanitary sewer system; there are and have been no septic systems on-site. There are and have been no process-related water uses on this parcel.
Nonhazardous Solid Waste Management	There appear to be no environmental liability issues associated with LANL's nonhazardous waste management practices within the parcel.	Currently, there is no generation of nonhazardous wastes on this parcel. The Laboratory's Environmental Restoration Project continues to investigate subsurface contamination associated with former waste lines in the area of this site. The Manhattan Monument parcel is not thought to be affected by these former waste lines. Former Laboratory buildings on or in proximity to this site pose no apparent environmental liability issues.
Hazardous Solid Waste Management	No hazardous wastes are currently managed on this parcel, and so there are no environmental liability issues associated with current hazardous waste management practices. There has been no known past management of hazardous wastes on this parcel.	None.
Underground	There appear to be no environmental liability issues	There is no historical record, employee recollection, or

Storage Tanks	associated with USTs at this facility.	visible indication that there are or were USTs in service on this property. There is no plan to install any USTs.
Materials, Products, and Pesticide Handling and Storage Practices	There appear to be no environmental liability issues associated with current materials, products, and pesticide handling and storage practice at this facility. LANL is current with its Tier II and Form R reporting under SARA Title III.	None.
PCB Inventory Management	There appear to be no environmental liability issues associated with PCB inventory management at this land parcel.	LANL's PCB database shows that no PBC-containing equipment was used, stored or disposed on this parcel.
Potential On-Site Contamination and Waste Disposal	There is no record, employee recollection, or visible indication that waste materials have been disposed on the subject property. The site address is currently not listed on the proposed or final NPL, in the CERCLIS or CERCLIS-NFRAP databases, or on the State's list of designated potential hazardous waste disposal sites. No USTs are known to have been located on this property. In addition, the site address is currently not listed in the state or federal reportable spills databases, and there was no visible evidence of a spill exterior to the building, other than oil staining typically associated with parking lot areas.	On the days of the site visits, there was no unusually altered topography, unusually stressed vegetation, soil staining, unexplained cuts in the pavement, unusual ground depressions, or other visible indications of past spills, releases, or waste disposal. Site contacts reported experiencing no reportable spills.
Past Off-Site Waste Disposal	To the best of LANL management's knowledge, no issues or concerns have been raised regarding this facility's past off-site waste disposal practices. This facility has not received or filed notifications under the Comprehensive Environmental Response, Compensation, and Liability Act related to the disposal of any hazardous substances, and is currently not listed in the SETS database as a PRP at any NPL or non-NPL site.	None of the off-site disposal facilities known to have received hazardous or nonhazardous wastes from this facility is currently listed on the proposed or final NPL, in the federal CERCLIS or CERCLIS-NFRAP databases, or in the respective state databases that are the equivalent of the federal CERCLIS and NPL databases.
Environmental Data Base Search Results	There were no apparent environmental liabilities identified in any of the federal or state environmental databases searched for this assessment (see Attachment A).	The database search to assess whether environmental conditions on the subject property have been affected by any off-site source or sources identified 13 mappable sites within the designated search radii. (NOTE: The term "mappable" means that the address information provided is sufficient for the database search vendor to pinpoint the site's location on a street map with a high degree of confidence.). One of these sites was DOA-LAAO, which is listed in the RCRA Corrective Action database. A second

site was listed as a RCRA small-quantity generator: Mountain Air Dry Cleaners. Six sites have registered underground storage tanks, and another five sites were listed because of reported leaking underground storage tanks. At four of these five sites the situation is resolved and no further action is required. At a fifth site, the Los Alamos Chevron located at 2155 Trinity Drive, there has been a confirmed release and the investigation is ongoing. This property is located within a few hundred feet of the subject parcel.

Given the database search results and based on an inspection of the surrounding properties from publicly accessible areas, none of the neighboring operations is believed to pose a significant potential concern for environmental conditions on the subject property.

The environmental database search also identified 13 "orphan" sites (i.e., sites not mapped by the database search vendor because of poor or inadequate address information). Based on the area tour, only two of these listed "orphan" sites are believed to be located within 1 mile of the subject property and none is believed to pose a potential concern for environmental conditions on the subject property.



## **The EDR Radius Map with GeoCheck<sup>®</sup>**

**Manhattan Monument Site  
Manhattan Monument Site  
Los Alamos, NM 87544**

**Inquiry Number: 679255.2s**

**September 13, 2001**

## ***The Source For Environmental Risk Management Data***

3530 Post Road  
Southport, Connecticut 06490

### **Nationwide Customer Service**

Telephone: 1-800-352-0050  
Fax: 1-800-231-6802  
Internet: [www.edrnet.com](http://www.edrnet.com)

# TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary.....	ES1
Overview Map.....	2
Detail Map.....	3
Map Findings Summary.....	4
Map Findings.....	5
Orphan Summary.....	46
EPA Waste Codes.....	EPA-1
Government Records Searched/Data Currency Tracking.....	GR-1
 <u>GEOCHECK ADDENDUM</u>	
Physical Setting Source Addendum.....	A-1
Physical Setting Source Summary.....	A-2
Physical Setting Source Map.....	A-6
Physical Setting Source Map Findings.....	A-7
Physical Setting Source Records Searched.....	A-8

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

### TARGET PROPERTY INFORMATION

#### ADDRESS

MANHATTAN MONUMENT SITE  
LOS ALAMOS, NM 87544

#### COORDINATES

Latitude (North): 35.880600 - 35° 52' 50.2"  
Longitude (West): 106.303000 - 106° 18' 10.8"  
Universal Transverse Mercator: Zone 13  
UTM X (Meters): 382381.0  
UTM Y (Meters): 3971289.2

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: 2435106-H3 GUAJE MOUNTAIN, NM  
Source: USGS 7.5 min quad index

### TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ( "reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

### FEDERAL ASTM STANDARD

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System  
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned  
RCRIS-TSD..... Resource Conservation and Recovery Information System  
RCRIS-LQG..... Resource Conservation and Recovery Information System  
ERNS..... Emergency Response Notification System

### STATE ASTM STANDARD

SHWS..... This state does not maintain a SHWS list. See the Federal CERCLIS list.  
SWF/LF..... Solid Waste Facilities

### FEDERAL ASTM SUPPLEMENTAL

CONSENT..... Superfund (CERCLA) Consent Decrees

## EXECUTIVE SUMMARY

<b>ROD</b> .....	Records Of Decision
<b>Delisted NPL</b> .....	National Priority List Deletions
<b>FINDS</b> .....	Facility Index System/Facility Identification Initiative Program Summary Report
<b>HMIRS</b> .....	Hazardous Materials Information Reporting System
<b>MLTS</b> .....	Material Licensing Tracking System
<b>MINES</b> .....	Mines Master Index File
<b>NPL Liens</b> .....	Federal Superfund Liens
<b>PADS</b> .....	PCB Activity Database System
<b>RAATS</b> .....	RCRA Administrative Action Tracking System
<b>TRIS</b> .....	Toxic Chemical Release Inventory System
<b>TSCA</b> .....	Toxic Substances Control Act
<b>FTTS</b> .....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

### STATE OR LOCAL ASTM SUPPLEMENTAL

**AST**..... Aboveground Storage Tanks List

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the target property includes a tolerance of +/- 10 feet. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### FEDERAL ASTM STANDARD

**CORRACTS:** CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/27/2001 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b><i>US DOE LOS ALAMOS SCIENTIFIC L</i></b>	<b><i>528 35TH ST</i></b>	<b><i>1/2 - 1 WNW</i></b>	<b><i>12</i></b>	<b><i>9</i></b>

**RCRIS:** The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 06/21/2000 has revealed that there is 1 RCRIS-SQG site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b><i>MOUNTAIN AIR DRY CLEANERS</i></b>	<b><i>1324 17TH ST</i></b>	<b><i>1/8 - 1/4ESE</i></b>	<b><i>4</i></b>	<b><i>6</i></b>

## EXECUTIVE SUMMARY

### STATE ASTM STANDARD

**LUST:** The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the New Mexico Environmental Department's List of Past & Current Leak Sites by Location.

A review of the LUST list, as provided by EDR, and dated 01/26/2001 has revealed that there are 5 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
US WEST COMM	1907 TRINITY DRIVE	1/8 - 1/4 WNW A3		5
<b>LOS ALAMOS CHEVRON</b>	<b>2155 TRINITY DR</b>	<b>1/8 - 1/4 WNW 8</b>		<b>7</b>
GIANT STOP N GO	2373 TRINITY DR	1/4 - 1/2 WNW B9		7
GIANT STOP N GO #57A	2372 TRINITY DR	1/4 - 1/2 WNW B10		8
EXXON #6-2636	2591 TRINITY DR	1/4 - 1/2 WNW 11		9

**UST:** The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the New Mexico Environmental Department's Listing of Underground Storage Tanks.

A review of the UST list, as provided by EDR, and dated 01/26/2001 has revealed that there are 6 UST sites within approximately 0.25 miles of the target property.

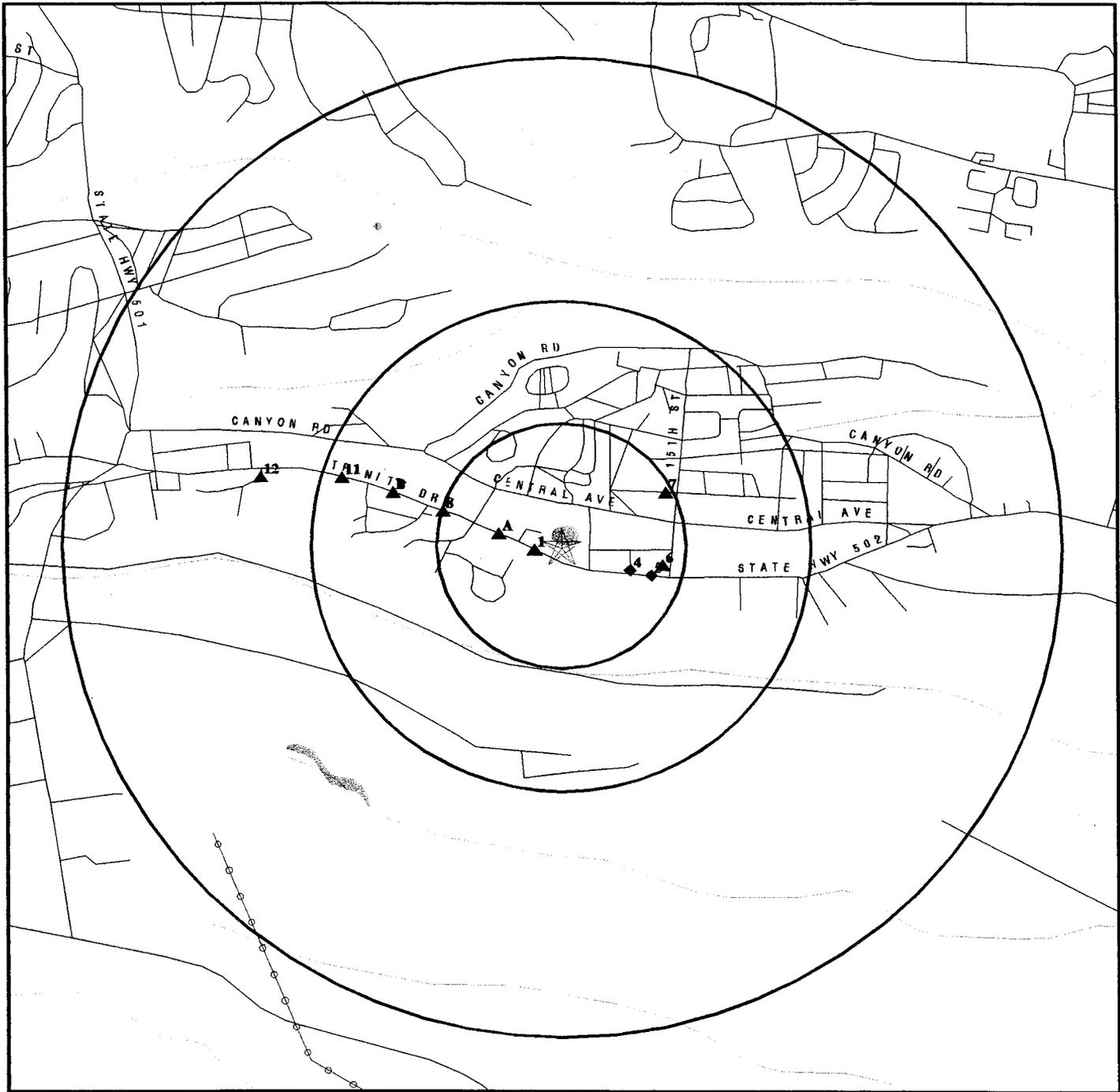
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
RICH LARRY	1743 TRINITY	0 - 1/8 W	1	5
LOS ALAMOS MAIN	1907 TRINITY	1/8 - 1/4 WNW A2		5
SHANNON CORP	1240 TRINITY	1/8 - 1/4 E	6	6
COMMUNITY CENTER SHOPPING CENT	1550 IRIS ST	1/8 - 1/4 ENE	7	7
<b>LOS ALAMOS CHEVRON</b>	<b>2155 TRINITY DR</b>	<b>1/8 - 1/4 WNW 8</b>		<b>7</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
LOS ALAMOS SHAMROCK	1237 TRINITY DR	1/8 - 1/4 ESE	5	6

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
LOS ALAMOS PUBLIC SCHOOLS	FINDS, FTTS, LUST
LANL AREA J LANDFILL	SWF/LF
COMMUNITY CENTER	LUST
LANL TA3-36-3	LUST
LANL TA-21	LUST
LANL TA-15	LUST
SHANNON CORP.	LUST
LOS ALAMOS COMMUNITY CENTER	UST
TA 3 107	UST
METZGER STORES (A)	UST
WATERCHRIS DBA HILLTOP HOUSE	UST
TECHNICAL AREA 36 SITE 8 LOS ALAMOS NATL LAB	ERNS
BANDELIER NATIONAL MONUMENT	FINDS

# OVERVIEW MAP - 679255.2s - Adelante Consulting



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites (if requested)
- ▣ National Priority List Sites
- ▣ Landfill Sites

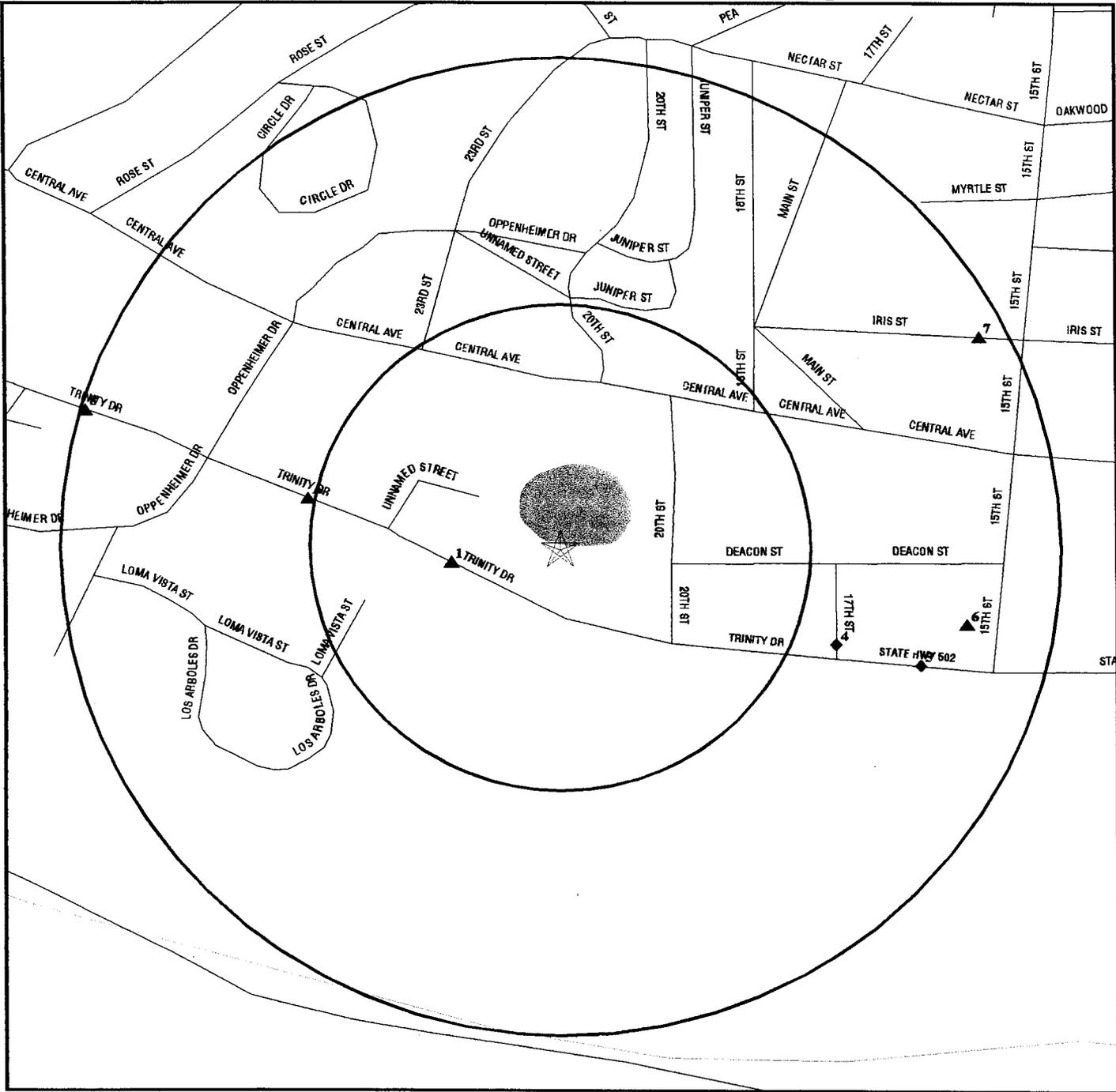


- ⚡ Power transmission lines
- ⚡ Oil & Gas pipelines
- ▣ Wetlands



<b>TARGET PROPERTY:</b>	Manhattan Monument Site	<b>CUSTOMER:</b>	Adelante Consulting
<b>ADDRESS:</b>	Manhattan Monument Site	<b>CONTACT:</b>	Virginia Smith
<b>CITY/STATE/ZIP:</b>	Los Alamos NM 87544	<b>INQUIRY #:</b>	679255.2s
<b>LAT/LONG:</b>	35.8806 / 106.3030	<b>DATE:</b>	September 13, 2001 3:17 pm

# DETAIL MAP - 679255.2s - Adelante Consulting



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites (if requested)
- ⚡ Sensitive Receptors
- ▨ National Priority List Sites
- ▨ Landfill Sites

- ⚡ Power transmission lines
- ⚡ Oil & Gas pipelines
- ▨ Wetlands



<b>TARGET PROPERTY:</b>	Manhattan Monument Site	<b>CUSTOMER:</b>	Adelante Consulting
<b>ADDRESS:</b>	Manhattan Monument Site	<b>CONTACT:</b>	Virginia Smith
<b>CITY/STATE/ZIP:</b>	Los Alamos NM 87544	<b>INQUIRY #:</b>	679255.2s
<b>LAT/LONG:</b>	35.8806 / 106.3030	<b>DATE:</b>	September 13, 2001 3:17 pm

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><u>FEDERAL ASTM STANDARD</u></b>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.250	0	0	NR	NR	NR	0
CORRACTS		1.000	0	0	0	1	NR	1
RCRIS-TSD		0.500	0	0	0	NR	NR	0
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	0	1	NR	NR	NR	1
ERNS		TP	NR	NR	NR	NR	NR	0
<b><u>STATE ASTM STANDARD</u></b>								
State Haz. Waste		N/A	N/A	N/A	N/A	N/A	N/A	N/A
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	2	3	NR	NR	5
UST		0.250	1	5	NR	NR	NR	6
<b><u>FEDERAL ASTM SUPPLEMENTAL</u></b>								
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
<b><u>STATE OR LOCAL ASTM SUPPLEMENTAL</u></b>								
AST		TP	NR	NR	NR	NR	NR	0

### **EDR PROPRIETARY DATABASES**

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

\* Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

Coal Gas Site Search: EDR does not presently have coal gas site information available in this state.

1  
West  
< 1/8  
291  
Higher

**RICH LARRY**  
1743 TRINITY  
LOS ALAMOS, NM 87544

UST U001891940  
N/A

UST:  
Facility ID: 30219  
Total Tanks: 0  
Owner ID: 14262  
Old Facility Id: 6205001  
Contact: LARRY RICH  
Owner: RICH LARRY  
Owner Address: 1743 TRINITY  
LOS ALAMOS, NM 87544

A2  
WNW  
1/8-1/4  
679  
Higher

**LOS ALAMOS MAIN**  
1907 TRINITY  
LOS ALAMOS, NM 87544

UST U003192093  
N/A

Site 1 of 2 in cluster A

UST:  
Facility ID: 29148  
Total Tanks: 0  
Owner ID: 14976  
Old Facility Id: 4516023  
Contact: LARRY RAILEY  
Owner: QWEST  
Owner Address: 3033 NORTH THIRD ST 216  
PHOENIX, AZ 85012

A3  
WNW  
1/8-1/4  
679  
Higher

**US WEST COMM**  
1907 TRINITY DRIVE  
LOS ALAMOS, NM

LUST S101647467  
N/A

Site 2 of 2 in cluster A

LUST:  
Form Number: 1561  
Priority Rank: Not reported  
Facility ID: 29148  
Status: No Further Action  
Score Total: 0  
Tie Score: 138  
Aggravating Factor Score: 2  
Mitigating Factor Score: 3  
Water Supply Impact: No  
Property Damage Impacts: No  
Highly Contaminated Soils: No  
Project Manager: Kathy Garland  
Date Release Reported: 22-OCT-92  
Product: Diesel  
Responsible Party Name: US WEST  
Water Supply Impact: No  
Ground Water Impact: No

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

4  
ESE  
1/8-1/4  
772  
Lower

**MOUNTAIN AIR DRY CLEANERS**  
1324 17TH ST  
LOS ALAMOS, NM 87544

RCRIS-SQG 1000870956  
FINDS NMD986684496

RCRIS:  
Owner: DICK BEAVDOIN  
(505) 662-5885  
Contact: DICK BEAVDOIN  
(505) 662-5885  
Record Date: 06/09/1993  
Classification: Small Quantity Generator  
Used Oil Recyc: No  
Violation Status: No violations found

FINDS:  
Other Pertinent Environmental Activity Identified at Site:  
AIRS Facility System (AIRS/AFS)  
RCRIS

5  
ESE  
1/8-1/4  
1001  
Lower

**LOS ALAMOS SHAMROCK**  
1237 TRINITY DR  
LOS ALAMOS, NM 87544

UST U000374169  
N/A

UST:  
Facility ID: 29152  
Total Tanks: 3  
Owner ID: 15396  
Old Facility Id: 5531001  
Contact: A G COOK  
Owner: MITCHELL PETROLEUM INC  
Owner Address: PO BOX 5133  
A G COOK  
SANTA FE, IM 87502

6  
East  
1/8-1/4  
1091  
Higher

**SHANNON CORP**  
1240 TRINITY  
LOS ALAMOS, NM 87544

UST U003192094  
N/A

UST:  
Facility ID: 30562  
Total Tanks: 0  
Owner ID: 15099  
Old Facility Id: 4789001  
Contact: ELMO BACA  
Owner: C DE BACA ELMO  
Owner Address: 1247 EAST CENTRAL AVE  
LOS ALAMOS, NM 87544

**MAP FINDINGS**

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**7**  
**ENE**  
**1/8-1/4**  
**1246**  
**Higher**

**COMMUNITY CENTER SHOPPING CENTER**  
**1550 IRIS ST**  
**LOS ALAMOS, NM 87544**

**UST** **U003192087**  
**N/A**

UST:

Facility ID: 27475  
 Total Tanks: 0  
 Owner ID: 15744  
 Old Facility Id: 10542001  
 Contact: LYLE GOLDEN  
 Owner: COMMUNITY CENTER SHOPPING CENTER  
 Owner Address: 1221 FIFTEENTH ST  
 LOS ALAMOS, NM 87544

**8**  
**WNW**  
**1/8-1/4**  
**1308**  
**Higher**

**LOS ALAMOS CHEVRON**  
**2155 TRINITY DR**  
**LOS ALAMOS, NM 87544**

**UST** **U001387810**  
**LUST** **N/A**

LUST:

Form Number: 3685  
 Priority Rank: Not reported  
 Facility ID: 29144  
 Status: Pre-Investigation, Confirmed Release  
 Score Total: Not reported  
 Tie Score: Not reported  
 Aggravating Factor Score: Not reported  
 Mitigating Factor Score: Not reported  
 Water Supply Impact: Unknown  
 Property Damage Impacts: Unknown  
 Highly Contaminated Soils: Not reported  
 Project Manager: JLK  
 Date Release Reported: 30-MAY-00  
 Product: Not reported  
 Responsible Party Name: J R PHILLIPS  
 Water Supply Impact: Not reported  
 Ground Water Impact: Not reported

UST:

Facility ID: 29144  
 Total Tanks: 3  
 Owner ID: 14140  
 Old Facility Id: 6704001  
 Contact: JR PHILLIPS  
 Owner: LOS ALAMOS CHEVRON  
 Owner Address: 2155 TRINITY DR  
 LOS ALAMOS, NM 87544

**B9**  
**WNW**  
**1/4-1/2**  
**1867**  
**Higher**

**GIANT STOP N GO**  
**2373 TRINITY DR**  
**LOS ALAMOS, NM**  
**Site 1 of 2 in cluster B**

**LUST** **S101647448**  
**N/A**

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

**GIANT STOP N GO (Continued)**

Database(s)      EDR ID Number  
 EPA ID Number

**S101647448**

LUST:

Form Number: 1986  
 Priority Rank: Not reported  
 Facility ID: 1355  
 Status: No Further Action  
 Score Total: Not reported  
 Tie Score: Not reported  
 Aggravating Factor Score: Not reported  
 Mitigating Factor Score: Not reported  
 Water Supply Impact: Unknown  
 Property Damage Impacts: Unknown  
 Highly Contaminated Soils: No  
 Project Manager: Steven Jetter  
 Date Release Reported: 05-AUG-93  
 Product: Gasoline  
 Responsible Party Name: GIANT INDUSTRY  
 Water Supply Impact: No  
 Ground Water Impact: No

Form Number: 1147  
 Priority Rank: Not reported  
 Facility ID: 1355  
 Status: No Further Action  
 Score Total: 0  
 Tie Score: 118  
 Aggravating Factor Score: 1  
 Mitigating Factor Score: 3  
 Water Supply Impact: No  
 Property Damage Impacts: No  
 Highly Contaminated Soils: No  
 Project Manager: Steven Jetter  
 Date Release Reported: 28-FEB-92  
 Product: Gasoline  
 Responsible Party Name: GIANT INDUSTRY  
 Water Supply Impact: No  
 Ground Water Impact: No

**B10      GIANT STOP N GO #57A**  
**WNW      2372 TRINITY DR**  
**1/4-1/2      LOS ALAMOS, NM**  
**1867**  
**Higher      Site 2 of 2 in cluster B**

**LUST      S101822615**  
**N/A**

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

**MAP FINDINGS**

Database(s)      EDR ID Number  
EPA ID Number

**GIANT STOP N GO #57A (Continued)**

**S101822615**

**LUST:**

Form Number: 2796  
Priority Rank: Not reported  
Facility ID: 31859  
Status: NO FURTHER ACTION - SUSPECTED RELEASE  
Score Total: Not reported  
Tie Score: Not reported  
Aggravating Factor Score: Not reported  
Mitigating Factor Score: Not reported  
Water Supply Impact: Unknown  
Property Damage Impacts: Unknown  
Highly Contaminated Soils: Not reported  
Project Manager: Dana Bahar  
Date Release Reported: 28-NOV-95  
Product: Not reported  
Responsible Party Name: GIANT INDUSTRY  
Water Supply Impact: Not reported  
Ground Water Impact: Not reported

**11  
WNW  
1/4-1/2  
2430  
Higher**

**EXXON #6-2636  
2591 TRINITY DR  
LOS ALAMOS, NM**

**LUST S101647446  
N/A**

**LUST:**

Form Number: 2689  
Priority Rank: Not reported  
Facility ID: 30147  
Status: No Further Action  
Score Total: Not reported  
Tie Score: Not reported  
Aggravating Factor Score: Not reported  
Mitigating Factor Score: Not reported  
Water Supply Impact: Unknown  
Property Damage Impacts: Unknown  
Highly Contaminated Soils: No  
Project Manager: Marcy Leavitt  
Date Release Reported: 08-NOV-88  
Product: Gasoline  
Responsible Party Name: EXXON CORP  
Water Supply Impact: No  
Ground Water Impact: No

**12  
WNW  
1/2-1  
3263  
Higher**

**US DOE LOS ALAMOS SCIENTIFIC LABORATORY  
528 35TH ST  
LOS ALAMOS, NM 87544**

**PADS 1000881941  
CERCLIS NM0890010515  
FINDS  
RCRIS-LQG  
RCRIS-TSD  
CORRACTS  
CA HAZNET**

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

**US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)**

**1000881941**

**CERCLIS Classification Data:**

Site Incident Category: Not reported	Federal Facility: Federal Facility
Non NPL Status: PN	
Ownership Status: Federally Owned	NPL Status: Not on the NPL
Contact: Stan Hitt	Contact Tel: (214) 665-6735
Contact Title: Not reported	

**CERCLIS Assessment History:**

Assessment: DISCOVERY	Completed: 10/01/1980
Assessment: PRELIMINARY ASSESSMENT	Completed: 06/01/1984

**CERCLIS Site Status:**

Low

**CORRACTS Data:**

EPA Id:	NM0890010515
Region:	06
State:	NM
Area Name:	ENTIRE FACILITY
CORRACT Event Code:	CA750IN
Original Scheduled Date:	Not reported
New Scheduled Date:	Not reported
Actual Date:	07/29/1997

**RCRIS Corrective Action Summary:**

Effective Date: 05/23/1990  
 Legal Authority: RCRA 3004(u) or equivalent

**RCRIS:**

Owner: UNITED STATES DEPARTMENT OF ENERGY  
 (505) 667-5288

Contact: PAUL SCHUMANN  
 (505) 665-5027

Record Date: 08/18/1980

Classification: Large Quantity Generator, TSD, Hazardous Waste Transporter

**BIENNIAL REPORTS:**

Last Biennial Reporting Year: 1997

<u>Waste</u>	<u>Quantity (Lbs)</u>	<u>Waste</u>	<u>Quantity (Lbs)</u>
D001	70142.66	D002	106260.85
D003	234956.92	D004	63981.30
D005	58809.45	D006	51946.40
D007	93662.60	D008	394515.33
D009	62181.42	D010	8300.64
D011	8486.06	D012	0.04
D013	7.00	D014	0.04
D016	135.72	D018	1668.13
D019	13246.38	D020	0.04
D021	778.84	D022	2711.10
D026	775.94	D027	108.28
D028	15288.97	D029	15062.59
D030	7940.28	D031	7.04
D032	1030.83	D033	1867.47
D034	0.11	D035	1869.19
D036	21.08	D037	2.29
D038	298.80	D039	12.10
D040	311.34	D042	14.98
D043	54.89	F001	1044.78
F002	120620.65	F003	7921.65

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

**MAP FINDINGS**

Database(s) EDR ID Number  
 EPA ID Number

**US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)**

**1000881941**

F004	2872.01	F005	9788.74
F007	54.56	F027	4.40
K044	1606.00	P003	0.33
P030	4.60	P056	5.48
P076	5.48	P087	0.00
P105	0.53	U002	495.79
U007	30.18	U019	1.19
U037	1.19	U044	208.58
U045	221.03	U072	0.29
U075	221.03	U080	207.39
U110	0.02	U122	0.20
U188	75.83	U213	14.30
U220	18.33	U223	17.58
U226	23.89	U404	0.02

Used Oil Recyc: No

TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	03/05/1990
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	10/04/1995
Enforcement Action:	Initial Formal Notice of Non-compliance
Enforcement Action Date:	10/01/1992
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	10/01/1992
Priority of Violation:	High
Schedule Date to Achieve Compliance:	11/01/1992
Actual Date Achieved Compliance:	10/04/1995
Enforcement Action:	Initial Formal Notice of Non-compliance
Enforcement Action Date:	10/01/1992
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Groundwater Monitoring Requirements
Date Violation Determined:	08/08/1988
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	01/02/1989
Actual Date Achieved Compliance:	01/11/1989
Enforcement Action:	EPA Referral to State
Enforcement Action Date:	09/19/1988
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Closure/Post Closure Requirements
Date Violation Determined:	08/08/1988
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	01/02/1989

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Actual Date Achieved Compliance: 01/11/1989

Enforcement Action: EPA Referral to State  
Enforcement Action Date: 09/19/1988  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: TSD-Groundwater Monitoring Requirements  
Date Violation Determined: 08/08/1988  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 01/02/1989  
Actual Date Achieved Compliance: 01/11/1989

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 08/30/1988  
Proposed Monetary Penalty: \$ 51,495.00  
Final Monetary Penalty: \$ 51,495.00

Enforcement Action: EPA Referral to State  
Enforcement Action Date: 09/19/1988  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: TSD-Closure/Post Closure Requirements  
Date Violation Determined: 08/08/1988  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 01/02/1989  
Actual Date Achieved Compliance: 01/11/1989

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 08/30/1988  
Proposed Monetary Penalty: \$ 51,495.00  
Final Monetary Penalty: \$ 51,495.00

Enforcement Action: EPA Referral to State  
Enforcement Action Date: 09/19/1988  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: TSD-Closure/Post Closure Requirements  
Date Violation Determined: 08/07/1989  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 11/13/1989  
Actual Date Achieved Compliance: 11/14/1989

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 08/30/1988  
Proposed Monetary Penalty: \$ 51,495.00  
Final Monetary Penalty: \$ 51,495.00

Enforcement Action: Written Informal  
Enforcement Action Date: 10/11/1989  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 08/07/1989  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 11/13/1989

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Actual Date Achieved Compliance: 11/14/1989

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 08/30/1988  
Proposed Monetary Penalty: \$ 51,495.00  
Final Monetary Penalty: \$ 51,495.00

Enforcement Action: Written Informal  
Enforcement Action Date: 10/11/1989  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 08/07/1989  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 11/13/1989  
Actual Date Achieved Compliance: 11/14/1989

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 08/30/1988  
Proposed Monetary Penalty: \$ 51,495.00  
Final Monetary Penalty: \$ 51,495.00

Enforcement Action: EPA Referral to State  
Enforcement Action Date: 10/11/1989  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 08/07/1989  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 11/13/1989  
Actual Date Achieved Compliance: 11/14/1989

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 08/30/1988  
Proposed Monetary Penalty: \$ 51,495.00  
Final Monetary Penalty: \$ 51,495.00

Enforcement Action: EPA Referral to State  
Enforcement Action Date: 10/11/1989  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 03/05/1990  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 07/21/1990  
Actual Date Achieved Compliance: 07/31/1990

Enforcement Action: Written Informal  
Enforcement Action Date: 06/18/1990  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 03/05/1990  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 07/21/1990

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

**MAP FINDINGS**

**US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)**

EDR ID Number  
 EPA ID Number

Database(s)

**1000881941**

Actual Date Achieved Compliance:	07/31/1990
Enforcement Action:	Written Informal
Enforcement Action Date:	06/18/1990
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	04/29/1991
Priority of Violation:	High
Schedule Date to Achieve Compliance:	06/28/1991
Actual Date Achieved Compliance:	07/01/1991
Enforcement Action:	Written Informal
Enforcement Action Date:	05/24/1991
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	04/29/1991
Priority of Violation:	High
Schedule Date to Achieve Compliance:	06/28/1991
Actual Date Achieved Compliance:	07/01/1991
Enforcement Action:	Written Informal
Enforcement Action Date:	05/24/1991
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	05/05/1992
Priority of Violation:	High
Schedule Date to Achieve Compliance:	01/01/1993
Actual Date Achieved Compliance:	01/01/1993
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	01/28/1993
Proposed Monetary Penalty:	\$ 1,636,105.00
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	05/05/1992
Priority of Violation:	High
Schedule Date to Achieve Compliance:	01/01/1993
Actual Date Achieved Compliance:	01/01/1993
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	01/28/1993
Proposed Monetary Penalty:	\$ 1,636,105.00
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	05/05/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	01/01/1993
Actual Date Achieved Compliance:	01/01/1993
Enforcement Action:	Initial Formal 3008(a) Compliance Order

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Enforcement Action Date: 01/28/1993  
Proposed Monetary Penalty: \$ 1,636,105.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 05/06/1992  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 03/15/1993  
Actual Date Achieved Compliance: 09/03/1992  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 01/28/1993  
Proposed Monetary Penalty: \$ 1,636,105.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 05/07/1992  
Priority of Violation: High  
Schedule Date to Achieve Compliance: Not reported  
Actual Date Achieved Compliance: 09/03/1992  
Enforcement Action: Initial Formal Notice of Non-compliance  
Enforcement Action Date: 10/01/1992  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 05/07/1992  
Priority of Violation: High  
Schedule Date to Achieve Compliance: Not reported  
Actual Date Achieved Compliance: 09/03/1992  
Enforcement Action: Initial Formal Notice of Non-compliance  
Enforcement Action Date: 10/01/1992  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 05/06/1992  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: Not reported  
Actual Date Achieved Compliance: 09/03/1992  
Enforcement Action: Initial Formal Notice of Non-compliance  
Enforcement Action Date: 10/01/1992  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 05/07/1992  
Priority of Violation: High  
Schedule Date to Achieve Compliance: Not reported  
Actual Date Achieved Compliance: 09/03/1992  
Enforcement Action: Initial Formal Notice of Non-compliance  
Enforcement Action Date: 10/01/1992  
Proposed Monetary Penalty: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 05/07/1992  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: Not reported  
Actual Date Achieved Compliance: 09/03/1992  
Enforcement Action: Initial Formal Notice of Non-compliance  
Enforcement Action Date: 10/01/1992  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 05/07/1992  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: Not reported  
Actual Date Achieved Compliance: 09/03/1992  
Enforcement Action: Initial Formal Notice of Non-compliance  
Enforcement Action Date: 10/01/1992  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 05/05/1992  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: Not reported  
Actual Date Achieved Compliance: 09/03/1992  
Enforcement Action: Initial Formal Notice of Non-compliance  
Enforcement Action Date: 10/01/1992  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 05/07/1992  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 03/15/1993  
Actual Date Achieved Compliance: 03/15/1993  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 01/28/1993  
Proposed Monetary Penalty: \$ 1,636,105.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 05/06/1992  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 03/15/1993  
Actual Date Achieved Compliance: 03/15/1993  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 01/28/1993  
Proposed Monetary Penalty: \$ 1,636,105.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Area of Violation: TSD-Land Ban Requirements  
Date Violation Determined: 05/07/1992  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 03/15/1993  
Actual Date Achieved Compliance: 11/17/1993  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 01/28/1993  
Proposed Monetary Penalty: \$ 1,636,105.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 11/01/1993  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 10/05/1994  
Actual Date Achieved Compliance: 10/05/1994  
Enforcement Action: Consent Decrees  
Enforcement Action Date: 12/10/1993  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: \$ 700,000.00  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 11/01/1993  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 10/05/1994  
Actual Date Achieved Compliance: 10/05/1994  
Enforcement Action: Consent Decrees  
Enforcement Action Date: 12/10/1993  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: \$ 700,000.00  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/06/1994  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 10/05/1994  
Actual Date Achieved Compliance: 10/05/1994  
Enforcement Action: Consent Decrees  
Enforcement Action Date: 12/10/1993  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: \$ 700,000.00  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/06/1994  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 10/05/1994  
Actual Date Achieved Compliance: 10/05/1994  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 09/02/1994  
Proposed Monetary Penalty: \$ 247,177.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 11/01/1993

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Priority of Violation: High  
Schedule Date to Achieve Compliance: 10/05/1994  
Actual Date Achieved Compliance: 10/05/1994

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 09/02/1994  
Proposed Monetary Penalty: \$ 247,177.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 11/01/1993  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 10/05/1994  
Actual Date Achieved Compliance: 10/05/1994

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 09/02/1994  
Proposed Monetary Penalty: \$ 247,177.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 11/01/1993  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 10/05/1994  
Actual Date Achieved Compliance: 10/05/1994

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 09/02/1994  
Proposed Monetary Penalty: \$ 247,177.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 11/01/1993  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 10/05/1994  
Actual Date Achieved Compliance: 10/05/1994

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 09/02/1994  
Proposed Monetary Penalty: \$ 247,177.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/06/1994  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 10/05/1994  
Actual Date Achieved Compliance: 10/05/1994

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 09/02/1994  
Proposed Monetary Penalty: \$ 247,177.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/06/1994  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 10/05/1994

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Actual Date Achieved Compliance: 10/05/1994

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 09/02/1994  
Proposed Monetary Penalty: \$ 247,177.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 11/01/1993  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 10/05/1994  
Actual Date Achieved Compliance: 10/05/1994

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 09/02/1994  
Proposed Monetary Penalty: \$ 247,177.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 11/01/1993  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 10/05/1994  
Actual Date Achieved Compliance: 10/05/1994

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 09/02/1994  
Proposed Monetary Penalty: \$ 247,177.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: TSD-Land Ban Requirements  
Date Violation Determined: 11/01/1993  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 10/05/1994  
Actual Date Achieved Compliance: 10/05/1994

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 09/02/1994  
Proposed Monetary Penalty: \$ 247,177.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: TSD-Land Ban Requirements  
Date Violation Determined: 07/06/1994  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 10/05/1994  
Actual Date Achieved Compliance: 10/05/1994

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 09/02/1994  
Proposed Monetary Penalty: \$ 247,177.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-Land Ban Requirements  
Date Violation Determined: 07/06/1994  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 10/05/1994  
Actual Date Achieved Compliance: 10/05/1994

Enforcement Action: Initial Formal 3008(a) Compliance Order

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Enforcement Action Date: 09/02/1994  
Proposed Monetary Penalty: \$ 247,177.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-Land Ban Requirements  
Date Violation Determined: 11/01/1993  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 01/30/1994  
Actual Date Achieved Compliance: 01/30/1994  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 09/02/1994  
Proposed Monetary Penalty: \$ 247,177.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 07/06/1994  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 10/05/1994  
Actual Date Achieved Compliance: 10/05/1994  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 09/02/1994  
Proposed Monetary Penalty: \$ 247,177.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-Land Ban Requirements  
Date Violation Determined: 08/12/1994  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 09/15/1994  
Actual Date Achieved Compliance: 01/30/1995  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 08/12/1994  
Proposed Monetary Penalty: \$ 26,040.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 08/12/1994  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 09/15/1994  
Actual Date Achieved Compliance: 01/30/1995  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 08/12/1994  
Proposed Monetary Penalty: \$ 26,040.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

**MAP FINDINGS**

Database(s) EDR ID Number  
EPA ID Number

**US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)**

**1000881941**

Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/22/1995
Priority of Violation:	High
Schedule Date to Achieve Compliance:	04/26/1995
Actual Date Achieved Compliance:	04/26/1995
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	03/22/1995
Proposed Monetary Penalty:	\$ 103,539.00
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/22/1995
Priority of Violation:	High
Schedule Date to Achieve Compliance:	04/26/1995
Actual Date Achieved Compliance:	04/26/1995
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	03/22/1995
Proposed Monetary Penalty:	\$ 103,539.00
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/22/1995
Priority of Violation:	High
Schedule Date to Achieve Compliance:	04/26/1995
Actual Date Achieved Compliance:	04/26/1995
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	03/22/1995
Proposed Monetary Penalty:	\$ 103,539.00
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/22/1995
Priority of Violation:	High
Schedule Date to Achieve Compliance:	04/26/1995
Actual Date Achieved Compliance:	04/26/1995
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	03/22/1995
Proposed Monetary Penalty:	\$ 103,539.00
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/22/1995
Priority of Violation:	High
Schedule Date to Achieve Compliance:	04/26/1995
Actual Date Achieved Compliance:	04/26/1995
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	03/22/1995
Proposed Monetary Penalty:	\$ 103,539.00
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995  
  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported  
  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995  
  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported  
  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995  
  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported  
  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995  
  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported  
  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995  
  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported  
  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1996

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Actual Date Achieved Compliance: 04/26/1996  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1996  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995  
Enforcement Action: Initial Formal 3008(a) Compliance Order

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: TSD-Land Ban Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 03/22/1995  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 04/26/1995  
Actual Date Achieved Compliance: 04/26/1995  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 03/22/1995  
Proposed Monetary Penalty: \$ 103,539.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 11/30/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/03/1996  
Actual Date Achieved Compliance: 01/03/1996  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 11/30/1995  
Proposed Monetary Penalty: \$ 14,795.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: TSD-Land Ban Requirements  
Date Violation Determined: 11/30/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/03/1996  
Actual Date Achieved Compliance: 01/03/1996  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 11/30/1995  
Proposed Monetary Penalty: \$ 14,795.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 11/30/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/03/1996  
Actual Date Achieved Compliance: 01/03/1996  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 11/30/1995  
Proposed Monetary Penalty: \$ 14,795.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 11/30/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/03/1996  
Actual Date Achieved Compliance: 01/03/1996  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 11/30/1995  
Proposed Monetary Penalty: \$ 14,795.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

**MAP FINDINGS**

Database(s) EDR ID Number  
EPA ID Number

**US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)**

**1000881941**

Area of Violation: Generator-All Requirements  
Date Violation Determined: 11/30/1995  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/03/1996  
Actual Date Achieved Compliance: 01/03/1996

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 11/30/1995  
Proposed Monetary Penalty: \$ 14,795.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: TSD-Land Ban Requirements  
Date Violation Determined: 11/30/1995  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 01/03/1996  
Actual Date Achieved Compliance: 01/03/1996

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 11/30/1995  
Proposed Monetary Penalty: \$ 14,795.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: TSD-Land Ban Requirements  
Date Violation Determined: 07/12/1996  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 08/05/1996  
Actual Date Achieved Compliance: 07/30/1996

Enforcement Action: Written Informal  
Enforcement Action Date: 07/12/1996  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 07/12/1996  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 08/05/1996  
Actual Date Achieved Compliance: 07/30/1996

Enforcement Action: Written Informal  
Enforcement Action Date: 07/12/1996  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 04/12/1996  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 08/05/1996  
Actual Date Achieved Compliance: 07/30/1996

Enforcement Action: Written Informal  
Enforcement Action Date: 07/12/1996  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/12/1996

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)**

**1000881941**

Priority of Violation: Low  
 Schedule Date to Achieve Compliance: 08/05/1996  
 Actual Date Achieved Compliance: 07/30/1996

Enforcement Action: Written Informal  
 Enforcement Action Date: 07/12/1996  
 Proposed Monetary Penalty: Not reported  
 Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
 Area of Violation: Generator-All Requirements  
 Date Violation Determined: 12/08/1997  
 Priority of Violation: High  
 Schedule Date to Achieve Compliance: 07/25/1998  
 Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
 Enforcement Action Date: 06/23/1998  
 Proposed Monetary Penalty: \$ 951,000.00  
 Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
 Area of Violation: Generator-All Requirements  
 Date Violation Determined: 12/08/1997  
 Priority of Violation: High  
 Schedule Date to Achieve Compliance: 07/25/1998  
 Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
 Enforcement Action Date: 06/23/1998  
 Proposed Monetary Penalty: \$ 951,000.00  
 Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
 Area of Violation: Generator-All Requirements  
 Date Violation Determined: 12/08/1997  
 Priority of Violation: High  
 Schedule Date to Achieve Compliance: 07/25/1998  
 Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
 Enforcement Action Date: 06/23/1998  
 Proposed Monetary Penalty: \$ 951,000.00  
 Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
 Area of Violation: Generator-Land Ban Requirements  
 Date Violation Determined: 12/08/1997  
 Priority of Violation: High  
 Schedule Date to Achieve Compliance: 07/25/1998  
 Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
 Enforcement Action Date: 06/23/1998  
 Proposed Monetary Penalty: \$ 951,000.00  
 Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
 Area of Violation: Generator-All Requirements  
 Date Violation Determined: 12/08/1997  
 Priority of Violation: High  
 Schedule Date to Achieve Compliance: 07/23/1998

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 06/23/1998  
Proposed Monetary Penalty: \$ 951,000.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	08/10/1998
Priority of Violation:	High
Schedule Date to Achieve Compliance:	02/10/2000
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	12/27/1999
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	08/10/1998
Priority of Violation:	High
Schedule Date to Achieve Compliance:	02/10/2000
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	12/27/1999
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	08/10/1998
Priority of Violation:	High
Schedule Date to Achieve Compliance:	02/10/2000
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	12/27/1999
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	08/10/1998
Priority of Violation:	High
Schedule Date to Achieve Compliance:	02/10/2000
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	12/27/1999
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	08/10/1998
Priority of Violation:	High
Schedule Date to Achieve Compliance:	02/10/2000
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	12/27/1999
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Area of Violation: Generator-All Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-Land Ban Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-Land Ban Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/19/2000  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 08/10/1998

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)**

**1000881941**

Priority of Violation:	High
Schedule Date to Achieve Compliance:	02/10/2000
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	12/27/1999
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	08/10/1998
Priority of Violation:	High
Schedule Date to Achieve Compliance:	02/10/2000
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	12/27/1999
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	08/10/1998
Priority of Violation:	High
Schedule Date to Achieve Compliance:	02/10/2000
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	12/27/1999
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	08/10/1998
Priority of Violation:	High
Schedule Date to Achieve Compliance:	02/10/2000
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	12/27/1999
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	08/10/1998
Priority of Violation:	High
Schedule Date to Achieve Compliance:	02/10/2000
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Initial Formal 3008(a) Compliance Order
Enforcement Action Date:	12/27/1999
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	08/10/1998
Priority of Violation:	High
Schedule Date to Achieve Compliance:	02/10/2000

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Actual Date Achieved Compliance: Not reported  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: TSD-Other Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 08/10/1998  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 02/10/2000  
Actual Date Achieved Compliance: Not reported  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/27/1999  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported  
Enforcement Action: Initial Formal 3008(a) Compliance Order

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1000881941

Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-Land Ban Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-Land Ban Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
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Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-Land Ban Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Initial Formal 3008(a) Compliance Order

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

**MAP FINDINGS**

Database(s) EDR ID Number  
EPA ID Number

**US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)**

**1000881941**

Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-Land Ban Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported  
Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 07/08/1997  
Priority of Violation: High  
Schedule Date to Achieve Compliance: 01/15/1999  
Actual Date Achieved Compliance: Not reported  
Enforcement Action: Initial Formal 3008(a) Compliance Order  
Enforcement Action Date: 12/14/1999  
Proposed Monetary Penalty: \$ 1,168,766.00  
Final Monetary Penalty: Not reported



Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)**

**1000881941**

Other Evaluation	Generator-Land Ban Requirements	01/30/1995
	TSD-Other Requirements	01/30/1995
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	10/05/1994
	TSD-Land Ban Requirements	10/05/1994
	TSD-Land Ban Requirements	10/05/1994
	Generator-Land Ban Requirements	10/05/1994
	Generator-Land Ban Requirements	01/30/1994
	TSD-Other Requirements	10/05/1994
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	01/01/1993
	TSD-Other Requirements	01/01/1993
	TSD-Other Requirements	01/01/1993
	TSD-Other Requirements	09/03/1992
	Generator-All Requirements	09/03/1992
	Generator-All Requirements	09/03/1992
	Generator-All Requirements	09/03/1992
	Generator-All Requirements	09/03/1992
	Generator-All Requirements	09/03/1992
	Generator-All Requirements	09/03/1992
	TSD-Other Requirements	09/03/1992
	TSD-Other Requirements	03/15/1993
	Generator-All Requirements	03/15/1993
	TSD-Land Ban Requirements	11/17/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	07/01/1991
	TSD-Other Requirements	07/01/1991
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	07/31/1990
	TSD-Other Requirements	07/31/1990
Compliance Evaluation Inspection (CEI)	TSD-Land Ban Requirements	10/04/1995
Compliance Evaluation Inspection (CEI)	TSD-Closure/Post Closure Requirements	11/14/1989
	TSD-Other Requirements	11/14/1989
	TSD-Other Requirements	11/14/1989
	TSD-Other Requirements	11/14/1989
Compliance Evaluation Inspection (CEI)	TSD-Groundwater Monitoring Requirements	01/11/1989
	TSD-Closure/Post Closure Requirements	01/11/1989
	TSD-Groundwater Monitoring Requirements	01/11/1989
	TSD-Closure/Post Closure Requirements	01/11/1989
Compliance Evaluation Inspection (CEI)	TSD-Groundwater Monitoring Requirements	01/11/1989
	TSD-Closure/Post Closure Requirements	01/11/1989
	TSD-Groundwater Monitoring Requirements	01/11/1989
	TSD-Closure/Post Closure Requirements	01/11/1989
Compliance Evaluation Inspection (CEI)	TSD-Land Ban Requirements	10/04/1995

**NY MANIFEST**

Additional detail is available in NY MANIFEST. Please contact your EDR Account Executive for more information.

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)

1000881941

FINDS:

Other Pertinent Environmental Activity Identified at Site:

AIRS Facility System (AIRS/AFS)  
CERCLIS  
Federal Facility Information System (FFIS)  
National Compliance Database (NCDB)  
RCRIS

HAZNET:

Gepaid: NM0890010515 Tepaid: CAD008302903  
Contact: LOS ALAMOS NATIONAL SCIENTIFIC Telephone: (505) 667-5105  
Gen County: 19 Tsd County: Los Angeles  
Tons: 20.016

Category: Aqueous solution with less than 10% total organic residues

Disposal Method: Recycler

Mailing Address: 528 35TH ST  
LOS ALAMOS, NM 87544 - 2201

County: Not reported

Gepaid: NM0890010515 Tepaid: CAT000646117  
Contact: LOS ALAMOS NATIONAL SCIENTIFIC Telephone: (505) 667-5105  
Gen County: 16 Tsd County: Kings  
Tons: 8.4445

Category:

Disposal Method: Not reported

Mailing Address: 528 35TH ST  
LOS ALAMOS, NM 87544 - 2201

County: Not reported

Gepaid: NM0890010515 Tepaid: CAT000646117  
Contact: LOS ALAMOS NATIONAL SCIENTIFIC Telephone: (505) 667-5105  
Gen County: 16 Tsd County: Kings  
Tons: 11.676

Category: Aqueous solution with less than 10% total organic residues

Disposal Method: Disposal, Surface Impoundment

Mailing Address: 528 35TH ST  
LOS ALAMOS, NM 87544 - 2201

County: Not reported

Gepaid: NM0890010515 Tepaid: CAT000646117  
Contact: LOS ALAMOS NATIONAL SCIENTIFIC Telephone: (505) 667-5105  
Gen County: 16 Tsd County: Kings  
Tons: 26.803

Category: Asbestos-containing waste

Disposal Method: Not reported

Mailing Address: 528 35TH ST  
LOS ALAMOS, NM 87544 - 2201

County: Not reported

Gepaid: NM0890010515 Tepaid: CAT000646117  
Contact: LOS ALAMOS NATIONAL SCIENTIFIC Telephone: (505) 667-5105  
Gen County: 16 Tsd County: Kings  
Tons: 15.7475

Category: Asbestos-containing waste

Disposal Method: Disposal, Land Fill

Mailing Address: 528 35TH ST  
LOS ALAMOS, NM 87544 - 2201

County: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

**MAP FINDINGS**

**US DOE LOS ALAMOS SCIENTIFIC LABORATORY (Continued)**

Database(s)      EDR ID Number  
EPA ID Number

**1000881941**

The CA HAZNET database contains 103 additional records for this site.  
Please contact your EDR Account Executive for more information.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
LOS ALAMOS	U003192090	LOS ALAMOS COMMUNITY CENTER	15TH MYRTLE	87544	UST	29145
LOS ALAMOS	S101647445	COMMUNITY CENTER	15TH / MAPLE ST		LUST	29145
LOS ALAMOS	S101647461	LANL TA3-36-3	DOE - LOS ALAMOS		LUST	30911
LOS ALAMOS	S101647458	LANL TA-21	DOE-LOS ALAMOS		LUST	30886
LOS ALAMOS	1002980154	BANDELIER NATIONAL MONUMENT	HCR 1, BOX 1, SUITE 15	87544	FINDS	
LOS ALAMOS	U003543674	TA 3 107	LOS ALAMOS	87544	UST	30904
LOS ALAMOS	S101647450	LANL TA-15	LOS ALAMOS AREA OFF		LUST	30875
LOS ALAMOS	U001891741	METZGER STORES (A)	128 STATE ROUTE 4	87544	UST	29397
LOS ALAMOS	S103835436	LANL AREA J LANDFILL	TECH AREA TA-54		SWF/LF	12871003
LOS ALAMOS	93323468	TECHNICAL AREA 36 SITE 8 LOS ALAMOS NATL LAB	TECHNICAL AREA 36 SITE 8 LOS ALAMOS NAT LAB		ERNS	
LOS ALAMOS	U003543692	WATERCHRIS DBA HILLTOP HOUSE	TRINITY AND CENTRAL AVE	87544	UST	31554
LOS ALAMOS	1002980307	LOS ALAMOS PUBLIC SCHOOLS	751 TRINITY DRIVE	87544	FINDS, FTTS, LUST	29151
LOS ALAMOS	S101647466	SHANNON CORP.	1240 TRINITY DR.	87544	LUST	30562

## EPA Waste Codes Addendum

Code	Description
D001	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
D002	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
D003	A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
D004	ARSENIC
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D012	ENDRIN
D013	LINDANE
D014	METHOXYCHLOR
D016	2,4-D
D018	BENZENE
D019	CARBON TETRACHLORIDE
D020	CHLORDANE

## EPA Waste Codes Addendum

Code	Description
D021	CHLORO BENZENE
D022	CHLOROFORM
D026	CRESOL
D027	1,4-DICHLORO BENZENE
D028	1,2-DICHLOROETHANE
D029	1,1-DICHLOROETHYLENE
D030	2,4-DINITROTOLUENE
D031	HEPTACHLOR (AND ITS EPOXIDE).
D032	HEXACHLORO BENZENE
D033	HEXACHLOROBUTADIENE
D034	HEXACHLOROETHANE
D035	METHYL ETHYL KETONE
D036	NITRO BENZENE
D037	PENTRACHLOROPHENOL
D038	PYRIDINE
D039	TETRACHLOROETHYLENE
D040	TRICHLOROETHYLENE
D042	2,4,6-TRICHLOROPHENOL
D043	VINYL CHLORIDE
F001	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLORO BENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLORO BENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT

## EPA Waste Codes Addendum

Code	Description
	SOLVENTS AND SPENT SOLVENT MIXTURES.
F003	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F004	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: CRESOLS AND CRESYLIC ACID, AND NITROBENZENE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F005	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F007	SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS
F027	DISCARDED UNUSED FORMULATIONS CONTAINING TRI-, TETRA-, OR PENTACHLOROPHENOL OR DISCARDED UNUSED FORMULATIONS CONTAINING COMPOUNDS DERIVED FROM THESE CHLOROPHENOLS. (THIS LISTING DOES NOT INCLUDE FORMULATIONS CONTAINING HEXACHLOROPHENE SYNTHESIZED FROM PREPURIFIED 2,4,5-TRICHLOROPHENOL AS THE SOLE COMPONENT).
F027	ACETIC ACID, (2,4,5-TRICHLOROPHENOXY)-
F027	PENTACHLOROPHENOL
F027	PHENOL, PENTACHLORO-
F027	PHENOL, 2,3,4,6-TETRACHLORO-
F027	PHENOL, 2,4,5-TRICHLORO-
F027	PHENOL, 2,4,6-TRICHLORO-
F027	PROPANOIC ACID, 2-(2,4,5-TRICHLOROPHENOXY)-
F027	SILVEX (2,4,5-TP)
F027	2,4,5-T
F027	2,3,4,6-TETRACHLOROPHENOL

## EPA Waste Codes Addendum

Code	Description
F027	2,4,5-TRICHLOROPHENOL
F027	2,4,6-TRICHLOROPHENOL
K044	WASTEWATER TREATMENT SLUDGES FROM THE MANUFACTURING AND PROCESSING OF EXPLOSIVES
P003	ACROLEIN
P003	2-PROPENAL
P030	CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED
P056	FLUORINE
P076	NITRIC OXIDE
P076	NITROGEN OXIDE NO
P087	OSMIUM OXIDE OSO <sub>4</sub> , (T-4)-
P087	OSMIUM TETROXIDE
P105	SODIUM AZIDE
U002	ACETONE (I)
U002	2-PROPANONE (I)
U007	ACRYLAMIDE
U007	2-PROPENAMIDE
U019	BENZENE (I,T)
U037	BENZENE, CHLORO-
U037	CHLOROBENZENE
U044	CHLOROFORM
U044	METHANE, TRICHLORO-
U045	METHANE, CHLORO- (I, T)
U045	METHYL CHLORIDE (I,T)
U072	BENZENE, 1,4-DICHLORO-
U072	P-DICHLOROBENZENE
U075	DICHLORODIFLUOROMETHANE
U075	METHANE, DICHLORODIFLUORO-

## EPA Waste Codes Addendum

Code	Description
U080	METHANE, DICHLORO-
U080	METHYLENE CHLORIDE
U110	DIPROPYLAMINE (I)
U110	1-PROPANAMINE, N-PROPYL- (I)
U122	FORMALDEHYDE
U188	PHENOL
U213	FURAN, TETRAHYDRO-(I)
U213	TETRAHYDROFURAN (I)
U220	BENZENE, METHYL-
U220	TOLUENE
U223	BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T)
U223	TOLUENE DIISOCYANATE (R,T)
U226	ETHANE, 1,1,1-TRICHLORO-
U226	METHYL CHLOROFORM

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Elapsed ASTM days:** Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

## FEDERAL ASTM STANDARD RECORDS

### **NPL:** National Priority List

Source: EPA  
Telephone: N/A

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC).

Date of Government Version: 07/26/01  
Date Made Active at EDR: 08/28/01  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/06/01  
Elapsed ASTM days: 22  
Date of Last EDR Contact: 08/06/01

### **Proposed NPL:** Proposed National Priority List Sites

Source: EPA  
Telephone: N/A

Date of Government Version: 07/26/01  
Date Made Active at EDR: 08/28/01  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/06/01  
Elapsed ASTM days: 22  
Date of Last EDR Contact: 08/06/01

### **CERCLIS:** Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA  
Telephone: 703-413-0223

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 05/14/01  
Date Made Active at EDR: 08/28/01  
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 06/25/01  
Elapsed ASTM days: 64  
Date of Last EDR Contact: 06/25/01

### **CERCLIS-NFRAP:** CERCLIS No Further Remedial Action Planned

Source: EPA  
Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 05/14/01  
Date Made Active at EDR: 08/28/01  
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 06/25/01  
Elapsed ASTM days: 64  
Date of Last EDR Contact: 06/25/01

### **CORRACTS:** Corrective Action Report

Source: EPA  
Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/27/01  
Date Made Active at EDR: 05/16/01  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 04/11/01  
Elapsed ASTM days: 35  
Date of Last EDR Contact: 09/11/01

## **RCRIS: Resource Conservation and Recovery Information System**

Source: EPA/NTIS  
Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 06/21/00  
Date Made Active at EDR: 07/31/00  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 07/10/00  
Elapsed ASTM days: 21  
Date of Last EDR Contact: 07/02/01

## **ERNS: Emergency Response Notification System**

Source: EPA/NTIS  
Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 08/08/00  
Date Made Active at EDR: 09/06/00  
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 08/11/00  
Elapsed ASTM days: 26  
Date of Last EDR Contact: 08/10/01

## **FEDERAL ASTM SUPPLEMENTAL RECORDS**

### **BRS: Biennial Reporting System**

Source: EPA/NTIS  
Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/97  
Database Release Frequency: Biennially

Date of Last EDR Contact: 06/18/01  
Date of Next Scheduled EDR Contact: 09/17/01

### **CONSENT: Superfund (CERCLA) Consent Decrees**

Source: EPA Regional Offices  
Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A  
Database Release Frequency: Varies

Date of Last EDR Contact: N/A  
Date of Next Scheduled EDR Contact: N/A

### **ROD: Records Of Decision**

Source: NTIS  
Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/30/99  
Database Release Frequency: Annually

Date of Last EDR Contact: 07/10/01  
Date of Next Scheduled EDR Contact: 10/08/01

### **DELISTED NPL: National Priority List Deletions**

Source: EPA  
Telephone: N/A

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/26/01  
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 08/06/01  
Date of Next Scheduled EDR Contact: 11/05/01

## **FINDS:** Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA  
Telephone: N/A

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/07/00  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/09/01  
Date of Next Scheduled EDR Contact: 10/08/01

## **HMIRS:** Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation  
Telephone: 202-366-4526

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/00  
Database Release Frequency: Annually

Date of Last EDR Contact: 07/23/01  
Date of Next Scheduled EDR Contact: 10/22/01

## **MLTS:** Material Licensing Tracking System

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 05/29/01  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/09/01  
Date of Next Scheduled EDR Contact: 10/08/01

## **MINES:** Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959

Date of Government Version: 08/01/98  
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/02/01  
Date of Next Scheduled EDR Contact: 10/01/01

## **NPL LIENS:** Federal Superfund Liens

Source: EPA  
Telephone: 205-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91  
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 08/21/01  
Date of Next Scheduled EDR Contact: 11/19/01

## **PADS:** PCB Activity Database System

Source: EPA  
Telephone: 202-260-3936

PCB Activity Database. PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/30/01  
Database Release Frequency: Annually

Date of Last EDR Contact: 08/13/01  
Date of Next Scheduled EDR Contact: 11/12/01

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **RAATS: RCRA Administrative Action Tracking System**

Source: EPA

Telephone: 202-564-4104

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 06/11/01

Date of Next Scheduled EDR Contact: 09/10/01

## **TRIS: Toxic Chemical Release Inventory System**

Source: EPA

Telephone: 202-260-1531

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/98

Database Release Frequency: Annually

Date of Last EDR Contact: 06/27/01

Date of Next Scheduled EDR Contact: 09/24/01

## **TSCA: Toxic Substances Control Act**

Source: EPA

Telephone: 202-260-1444

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/98

Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 09/12/01

Date of Next Scheduled EDR Contact: 12/10/01

## **FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/00

Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/26/01

Date of Next Scheduled EDR Contact: 09/24/01

## **FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**

Source: EPA

Telephone: 202-564-2501

Date of Government Version: 08/10/00

Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/26/01

Date of Next Scheduled EDR Contact: 09/24/01

## **STATE OF NEW MEXICO ASTM STANDARD RECORDS**

**SHWS:** This state does not maintain a SHWS list. See the Federal CERCLIS list.

Source: EPA

Telephone: 703-413-0223

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Made Active at EDR: N/A  
Database Release Frequency: N/A

Date of Data Arrival at EDR: N/A  
Elapsed ASTM days: N/A  
Date of Last EDR Contact: 07/30/01

## **SWF/LF: Solid Waste Facilities**

Source: New Mexico Environment Department  
Telephone: 505-827-0347

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/13/01  
Date Made Active at EDR: 07/11/01  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 06/14/01  
Elapsed ASTM days: 27  
Date of Last EDR Contact: 09/11/01

## **LUST: Leaking Underground Storage Tank Priorization Database**

Source: New Mexico Environment Department  
Telephone: 505-827-0188

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/26/01  
Date Made Active at EDR: 03/06/01  
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 02/05/01  
Elapsed ASTM days: 29  
Date of Last EDR Contact: 08/10/01

## **UST: Listing of Underground Storage Tanks**

Source: New Mexico Environment Department  
Telephone: 505-827-0199

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/26/01  
Date Made Active at EDR: 03/02/01  
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 02/05/01  
Elapsed ASTM days: 25  
Date of Last EDR Contact: 08/10/01

## **STATE OF NEW MEXICO ASTM SUPPLEMENTAL RECORDS**

### **AST: Aboveground Storage Tanks List**

Source: State Fire Marshal  
Telephone: 505-827-3550

Aboveground tanks that have been inspected by the State Fire Marshal.

Date of Government Version: 02/01/00  
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/02/01  
Date of Next Scheduled EDR Contact: 10/01/01

## **EDR PROPRIETARY DATABASES**

**Former Manufactured Gas (Coal Gas) Sites:** The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

### **Disclaimer Provided by Real Property Scan, Inc.**

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### HISTORICAL AND OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

**Oil/Gas Pipelines/Electrical Transmission Lines:** This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

## GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

MANHATTAN MONUMENT SITE  
MANHATTAN MONUMENT SITE  
LOS ALAMOS, NM 87544

### TARGET PROPERTY COORDINATES

Latitude (North):	35.880600 - 35° 52' 50.2"
Longitude (West):	106.303001 - 106° 18' 10.8"
Universal Transverse Mercator:	Zone 13
UTM X (Meters):	382381.0
UTM Y (Meters):	3971289.2

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2435106-H3 GUAJE MOUNTAIN, NM  
Source: USGS 7.5 min quad index

## GENERAL TOPOGRAPHIC GRADIENT AT TARGET PROPERTY

Target Property: General South

Source: General Topographic Gradient has been determined from the USGS 1 Degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## FEMA FLOOD ZONE

Target Property County  
LOS ALAMOS, NM

FEMA Flood  
Electronic Data  
Not Available

Flood Plain Panel at Target Property:

Not Reported

Additional Panels in search area:

Not Reported

## NATIONAL WETLAND INVENTORY

NWI Quad at Target Property  
GUAJE MOUNTAIN

NWI Electronic  
Data Coverage  
YES - refer to the Overview Map and Detail Map

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Site-Specific Hydrogeological Data\*:

Search Radius: 2.0 miles  
Status: Not found

### AQUIFLOW®

Search Radius: 2.000 Miles.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### GEOLOGIC AGE IDENTIFICATION

Geologic Code: Qf  
Era: Cenozoic  
System: Quaternary  
Series: Quaternary felsic volcanic rocks

#### ROCK STRATIGRAPHIC UNIT

Category: Volcanic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

\* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Component Name: CARJO

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 20 inches

Depth to Bedrock Max: > 40 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	4 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.60
2	4 inches	20 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.20 Min: 0.06	Max: 7.30 Min: 6.60
3	20 inches	25 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 7.40
4	25 inches	29 inches	unweathered bedrock	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: extremely gravelly - coarse sandy loam  
very fine sandy loam  
cobble - loam  
very gravelly - loam

Surficial Soil Types: extremely gravelly - coarse sandy loam  
very fine sandy loam  
cobble - loam  
very gravelly - loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: very gravelly - sand  
cobble - clay  
extremely gravelly - clay loam

## ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile

## FEDERAL USGS WELL INFORMATION

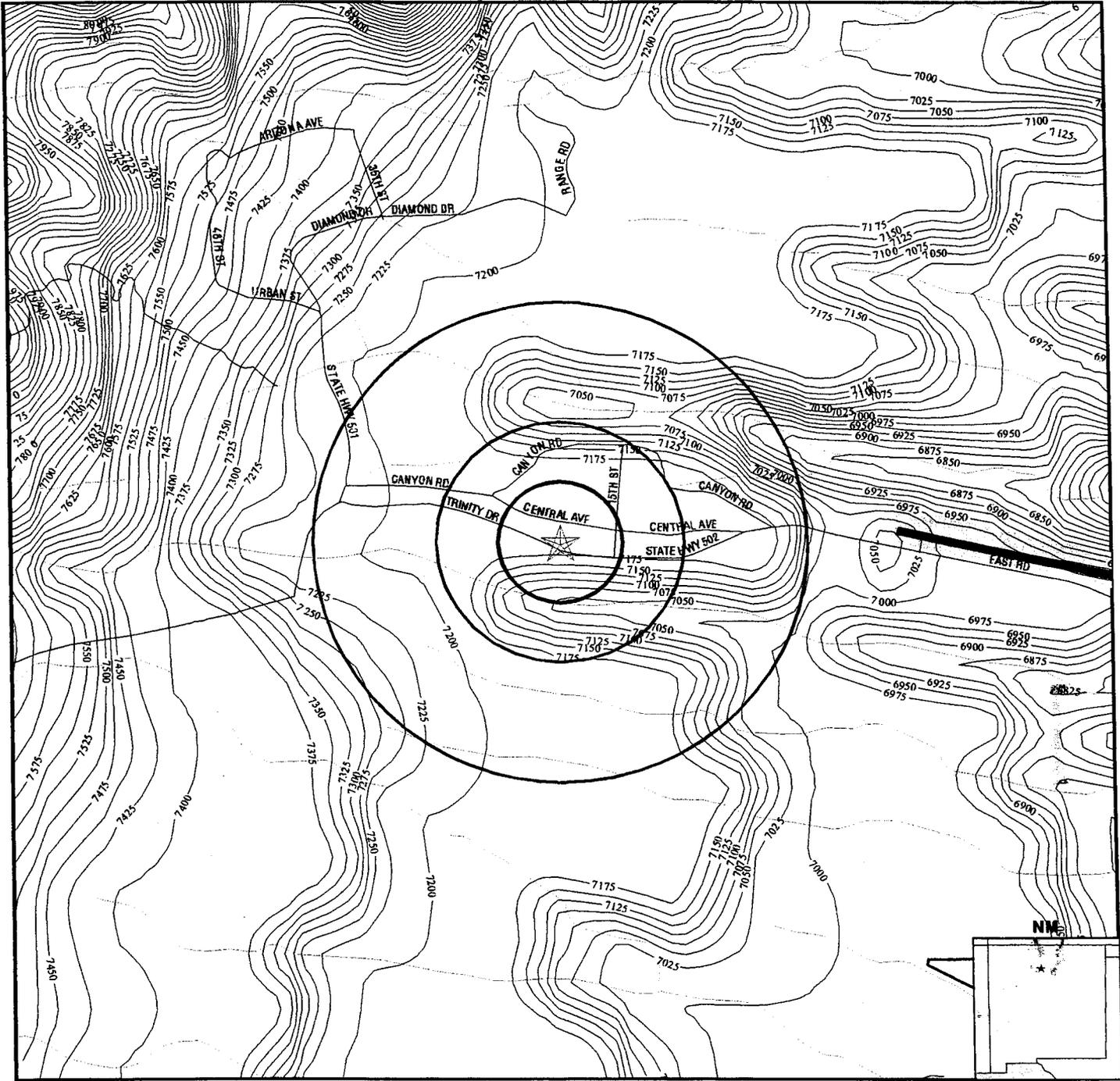
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

# PHYSICAL SETTING SOURCE MAP - 679255.2s



- ↖ Major Roads
- ⌒ Contour Lines
- ✈ Airports
- ⊕ Water Wells
- ⊕ Public Water Supply Wells
- ↑ Groundwater Flow Direction
- ⊖ Indeterminate Groundwater Flow at Location
- ⊖ Groundwater Flow Varies at Location
- Cluster of Multiple Icons

- ⊙ Earthquake epicenter, Richter 5 or greater
- ⊖ Closest Hydrogeological Data



**TARGET PROPERTY:** Manhattan Monument Site  
**ADDRESS:** Manhattan Monument Site  
**CITY/STATE/ZIP:** Los Alamos NM 87544  
**LAT/LONG:** 35.8806 / 106.3030

**CUSTOMER:** Adelante Consulting  
**CONTACT:** Virginia Smith  
**INQUIRY #:** 679255.2s  
**DATE:** September 13, 2001 3:17 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

Federal EPA Radon Zone for LOS ALAMOS County: 2

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Zip Code: 87544

Number of sites tested: 37

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.886 pCi/L	78%	22%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	4.100 pCi/L	50%	50%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

### **AQUIFLOW<sup>R</sup> Information System**

Source: EDR proprietary database of groundwater flow information  
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### **Geologic Age and Rock Stratigraphic Unit**

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### **STATSGO: State Soil Geographic Database**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the national Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

## ADDITIONAL ENVIRONMENTAL RECORD SOURCES

### **FEDERAL WATER WELLS**

#### **PWS: Public Water Systems**

Source: EPA/Office of Drinking Water  
Telephone: 202-260-2805

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### **PWS ENF: Public Water Systems Violation and Enforcement Data**

Source: EPA/Office of Drinking Water  
Telephone: 202-260-2805

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

**USGS Water Wells:** In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

### **RADON**

**Area Radon Information:** The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

**EPA Radon Zones:** Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

**Epicenters:** World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

**Appendix C**  
**Environmental**  
**Restoration**  
**CERCLA Report**



University of California

Environmental Science and Waste Technology (E)  
Environmental Restoration (ER) Project, MS M992

Los Alamos, New Mexico 87545  
(505) 667-0808/FAX (505) 665-4747

Date: September 24, 2001  
Refer to: ER2001-0782

Mr. Mat Johansen  
Department of Energy  
Los Alamos Area Office, MS A316  
Los Alamos, NM 87545

**SUBJECT: UPDATED ENVIRONMENTAL RESTORATION PROJECT CERCLA  
120(h) INFORMATION IN SUPPORT OF THE TRANSFER OF THE  
MANHATTAN MONUMENT, SITE 22 AND WHITE ROCK PARCELS**

Dear Mat:

The purpose of this document is to transmit updated Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) 120(h) information to support the transfer of the Manhattan Monument, Site 22 and White Rock parcels.

This document **SUPERCEDES** all previous documents submitted by the Environmental Restoration (ER) Project regarding CERCLA 120(h) requirements for potential release sites (PRs) associated with the transfer of above-mentioned parcels.

Please note that these updated CERCLA 120(h) reports provided herein continue to be based on the review of the four maps (Thiel, Vigil, Merrick and Thatcher/Vigil) provided to the ER Project in 1998. The ER Project is aware that some variations in parcel boundaries may have occurred since 1998; however, revised parcel boundary maps were not made available to the ER Project for review at the time of this update.

In addition, please note that the CERCLA 120(h) information provided relates only to the status of the PRs; other information relevant to current operations and activities, or other regulations at the parcels included in the transfer, are the responsibility of other Los Alamos National Laboratory (Laboratory) organizations and is not included herein. DOE is advised to contact the Laboratory's Site-Wide Issues Program Office to obtain updates of this other information necessary to complete the CERCLA 120(h) report.

If you have any questions, please call Paul Schumann at (505) 667-5840 or Kim Birdsall at (505) 665-3486.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Julie A. Canepa'.

Julie A. Canepa, Program Manager  
Environmental Restoration Project

JC/KB/vn

Enclosure: 1) Manhattan Monument Parcel  
2) Site 22 Parcel  
3) White Rock Parcel

Cy (w/enc.):

K. Birdsall, E/ER, MS M992  
D. Garvey, ESH-EIS, MS M889  
M. Kirsch, E/ER, MS M992  
E. Louderbough, LC-GL, MS A187  
W. Neff, E/ET, MS M992  
P. Schumann, E/ER, MS M992  
V. Smith, E/ER, MS M992  
P. Wardwell, LC-GL, MS A187  
L. Cummings, LAAO, MS A316  
D. Gregory, LAAO, MS A316  
E/ER File, MS M992  
IM-5, MS A150  
RPF, MS M707

Cy (w/o enc.):

J. Canepa, E/ER, MS M992

## Manhattan Monument Parcel

**Location:** Los Alamos Townsite

**Description:** The Manhattan Monument parcel is a small (approximately 400 square feet), townsite parcel that is located adjacent to Ashley Pond and surrounded by Los Alamos County land. This Monument consists of a small pavilion that shelters a plaque commemorating the Manhattan Project.

**History:** Ashley Pond is the location where most of the Laboratory's technical work was conducted during the Manhattan Project. The Manhattan Monument, itself, is said to be located on the site of the original "ice house," where the first fully assembled nuclear weapon was stored prior to use. The Manhattan Monument parcel contains no potential release sites (PRSs) within its boundaries. Several sanitary waste lines (which are believed to have been removed) traversed the Ashley Pond area approximately 30 ft northwest of the Monument. Portions of these sanitary waste lines were removed in 1948; the remainder of the waste lines is believed to have been removed during 1958 and 1959 concurrent with the removal of buildings in the area. The topography of the parcel and surrounding area has not changed significantly since the inception of the Laboratory.

**Is there any record of a hazardous substance having been stored on site?**

The historical record suggests that a fully assembled nuclear weapon was stored on site for a brief period of time in the 1940s. However, any hazardous substances would have been fully contained within the weapon and would not have been available for release. There are no other records of hazardous substances ever having been stored on site.

**Was the amount stored greater than or equal to 1,000 kg or the Reportable Quantity (RQ), whichever is greater?**

No. There are no records that indicate that hazardous substances were stored on the Manhattan Monument parcel in amounts exceeding 1000 kg or the RQ.

**Was the amount disposed of or released greater than or equal to the RQ?**

Unknown. There are no records that indicate hazardous substances were disposed of or released within the boundaries of the Manhattan Monument parcel. The sanitary waste lines discussed above were identified as a PRS that has been recommended for no further action (NFA) based on their association with office buildings and the fact that they most likely did not receive or convey radioactive or hazardous constituents.

**Current Regulatory Status:** The Manhattan Monument parcel contains no PRSs and is not believed to have been adversely impacted by the sanitary waste lines that were once located nearby. Thus, no remedial action is necessary. This parcel meets the Comprehensive Environmental Response, Compensation and Liability Act Section 120(h) requirements because all necessary remedial action (none in this case) has been taken prior to transfer.

**Future Actions Required:** None.

**References:**

*"Radioactive Liquid Waste Lines Removal Project at Los Alamos (1981-1986),"* September 1986, LA-10821-MS.

*"RFI Work Plan for OU 1071,"* Environmental Restoration Project, May 1992, LA-UR-92-810.

*"RFI Work Plan for OU 1078,"* Environmental Restoration Project, May 1992, LA-UR-92-838.

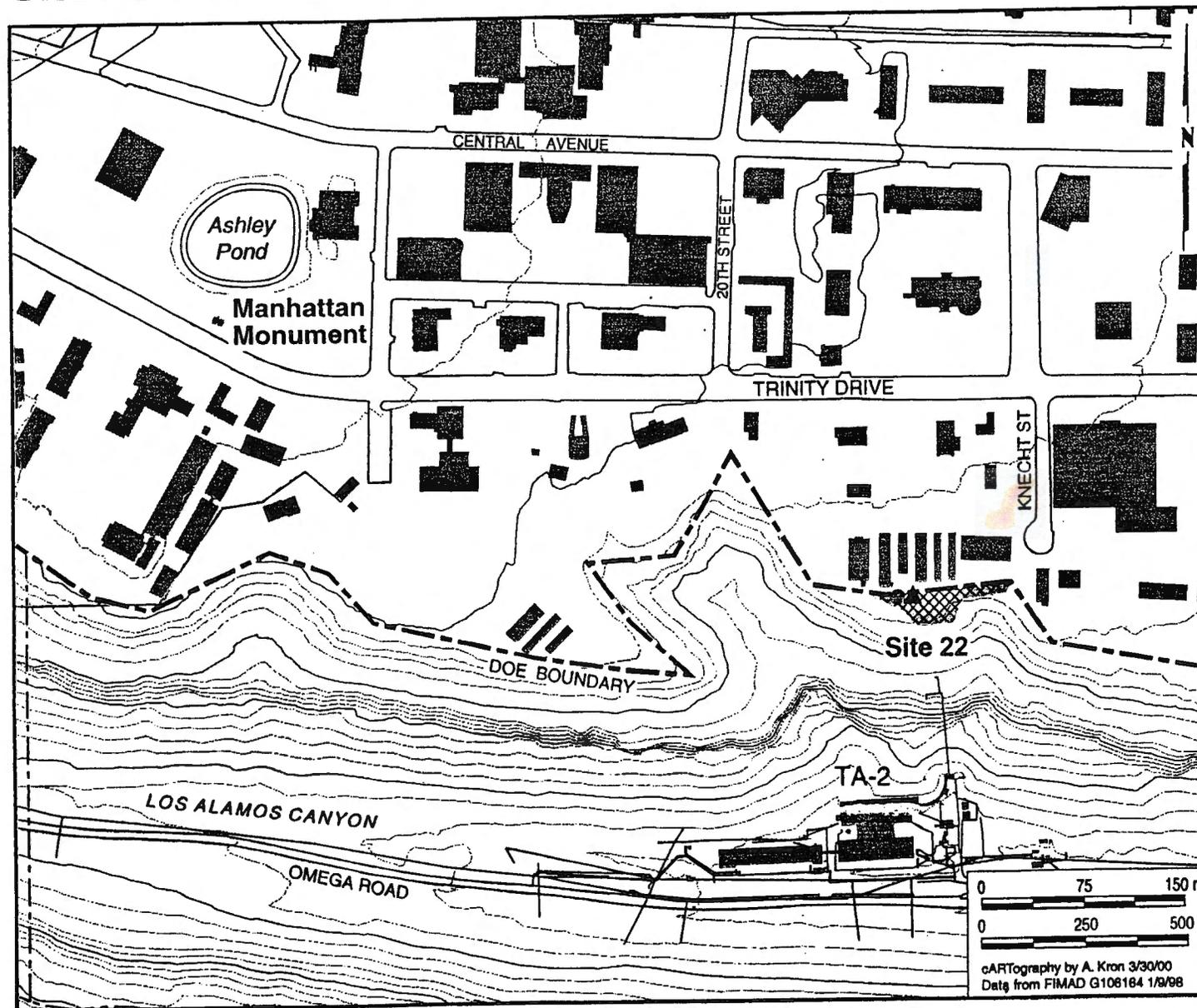
*"Radiological Survey and Decontamination of the Former Main Technical Area (TA-1) at Los Alamos, NM," December 1997, LA-6887.*

*"Environmental Restoration Report to Support Land Conveyance and Transfer under Public Law 105-119," August 1999, LA-UR-4187.*

# Appendix D

## Site Map

# Site 22 and Manhattan Monument



- Los Alamos County
- Building
- Paved Road
- DOE Boundary
- TA Boundary
- 20-ft Contour
- 100-ft Contour
- Gas Line
- Power Line
- Water Line
- TLD Station
- Air Monitoring Station
- T&E Core Zone
- T&E Buffer Zone

0 75 150 m  
 0 250 500 ft  
 cARTography by A. Kron 3/30/00  
 Data from FIMAD G106164 1/9/98

**PRELIMINARY:** The information depicted on this map has not been surveyed. Accordingly, this map is for informational purposes only.