

MANAGEMENT ACTION PROCESS DOCUMENT  
FOR THE NEVADA TEST SITE  
AND TONOPAH TEST RANGE

April 1996

**MANAGEMENT ACTION PROCESS DOCUMENT FOR THE  
NEVADA TEST SITE AND TONOPAH TEST RANGE**

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## List of Acronyms and Abbreviations

ALO	DOE Albuquerque Operations Office
C	Celsius
CAIP	
CAU	Corrective Action Unit
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act (1980)
CRARE	Comprehensive Response Action Risk Evaluation
DNA	Defense Nuclear Agency
DOE	Department of Energy
DOE/NV	Department of Energy, Nevada Operations
DQO	Data Quality Objectives
DRI	Desert Research Institute
EIS	Environmental Impact Statement
EM	Environmental Management
EM-40	Office of Environmental Restoration
EM-45	DOE Headquarters _____ of Southwest Area Programs
EMP	Environmental Management Project
EOD	Explosive Ordnance Disposal
EPA	Environmental Protection Agency
ER	Environmental Restoration
ERD	Environmental Restoration Division
ERDA	Energy Research and Development Administration
ERP	Environmental Restoration Project
ERWM	Environmental Restoration and Waste Management Division (DOE/NV)
F	Fahrenheit
FAR	Federal Acquisition Regulations
FFA	Federal Facility Agreement
FFACO	
FFCA	Federal Facility Compliance Agreement
FS	Feasibility Study
FY	Fiscal year
GIS	Geographic Information System
HWMU	Hazardous Waste Management Unit

## List of Acronyms and Abbreviations (Continued)

IAG	
km/h	Kilometer(s) per hour
LLNL	Lawrence Livermore National Laboratory
LANL	Los Alamos National Laboratory
m/s	Mile(s) per second
MAP	Management Action Process
MCA	
NAFR	Nellis Air Force Range
NDEP	Nevada Department of Environmental Protection
NEPA	National Environmental Policy Act
NTS	Nevada Test Site
OU	Operable Unit
PAI	Professional Analysis, Inc.
PMS	
PTS	
QA	Quality Assurance
QC	Quality Control
RAM	Responsibility Assignment Matrix
RCRA	Resource Conservation and Recovery Act of 1976
RDS	Risk data sheets
RI	Remedial Investigation
ROD	Record of Decision
SAFER	Streamlined Approach for Environmental Restoration
SHF	
SWMU	Solid Waste Management Unit
TTR	Tonopah Test Range
UNR	University of Nevada at Reno
UNLV	University of Nevada at Las Vegas
USGS	United States Geological Survey
UGTA	Underground Test Area
WIPP	Waste Isolation Pilot Plant

# 1.0 Introduction

A critical mission of the U.S. Department of Energy (DOE or the Department) is the planning, implementation, and completion of environmental restoration programs at Department facilities.

The Department's Nevada Operations Office (DOE/NV) manages the Nevada Test Site (NTS) and maintains environmental restoration responsibility for historical test areas on the NTS in addition to those on the Tonopah Test Range (TTR) and Nellis Air Force Range (NAFR), both located on restricted federal government lands adjacent to the NTS. DOE/NV also has environmental restoration responsibility for eight inactive United States test sites: Amchitka Island, Alaska; Rio Blanco and Rulison Sites in Colorado; Salmon Site, Mississippi; Gasbuggy and Gnome-Coach Sites in New Mexico; and the Central Nevada Test Site and Shoal Site in Nevada. These sites are addressed in a separate Management Action Process (MAP) document.

Approximately 1,100 sites, both on and off the NTS, that have been used primarily for nuclear testing are included in DOE/NV environmental restoration activities. Of these, approximately 720 sites have been identified as nuclear test sites, including approximately 600 underground sites on the NTS and 120 above-ground sites on the NTS, TTR, and NAFR. The remaining NTS release sites are classified as industrial sites and sites associated with nuclear rocket engine development tests in the 1960s and 1970s. These include surface tanks, underground storage tanks, leachfields, landfills, contaminated waste sites, injection wells, and tunnel muckpiles (excavated rock debris) and ponds.

Nuclear tests were first conducted in 1957 at the NTS and continued through 1992, except for a brief moratorium from October 1958 through September 1961. Atmospheric tests were conducted in sealed, vertical shafts drilled into the valley floor of Yucca Flat and on top of Rainier Mesa on the NTS. As part of the Plowshare Program (peaceful uses of nuclear explosives), six earth-cratering (shallow burial) experiments were conducted between 1962 and 1968: five on or near Buckboard Mesa and the largest at the northern end of Yucca Flat.

Additional testing over the history of the NTS has included neutron and gamma-ray interaction studies; open-air nuclear reactor, nuclear engine, and nuclear furnace tests; spills of hazardous materials; and experiments involving radioactive and nonradioactive materials conducted by the U.S. Department of Defense.

The mission of the DOE/NV environmental restoration program is to protect human health and the environment from risks posed by inactive and surplus facilities and contaminated areas by remediating these sites in the most cost-efficient and responsible manner possible to provide for future beneficial reuse. This mission will be accomplished by adhering to the Program's core values which are:

- Ensure protection of workers, the public health and safety, and the environment.
- Serve as a model steward of natural and cultural resources.
- Comply with federal, state, and local statutes.
- Use taxpayer's money prudently in achieving tangible results.
- Focus on customer satisfaction and collaborative decision-making.
- Demonstrate a commitment to excellence.

This MAP document summarizes the accomplishments and the current status of DOE/NV environmental restoration activities at the NTS and TTR and presents a comprehensive strategy for remediation and management of contaminated environmental media and the decommissioning of facilities and structures. These activities have been officially designated by the Department as the Nevada Environmental Restoration Project and are hereafter referred to as project activities.

### ***1.1 Purpose of Management Action Process***

The MAP is designed to assist DOE/NV, contractor management, technical personnel, regulators, and stakeholders in capturing, evaluating, and documenting information essential for planning and implementing environmental restoration activities. It provides a means for developing a common understanding of project status and strategy, understanding and evaluating ever-changing project requirements, identifying project improvement or optimization opportunities, setting priorities and sequencing work activities, and identifying and resolving local and strategic issues. The process, which includes a “bottom-up” review of all past and ongoing activities, provides a dynamic approach to developing effective strategies and to resolving technical, operational, and administrative environmental issues so that environmental actions can be effectively and expeditiously completed. It also addresses the necessary scopes, costs, and schedules that are essential to meet project objectives.

This document incorporates the recommendations in the MAP guidance. The uniqueness of this document is that it is a single, consolidated document that identifies the project's strategic course of action. Like the process itself, this document is dynamic and will be updated regularly.

## **1.2 Organization of the Management Action Process Document**

The Management Action Process Document is organized as follows:

Section 1 - Describes the mission, vision, and objectives of the project; describes the purpose of the MAP, and the organization of the document. This section identifies key participants in the process, including DOE/NV management, contractor management, and technical personnel. It discusses the interrelationships of the project to other environmental management and DOE organizations as well as the applicable interfaces with regulators, stakeholders, and the public. Also included is a summary of MAP accomplishments and a strategy for continuing the process (i.e., steps used in implementing the process including planned process-improvement adjustments).

Section 2 - Provides a natural and physical description of site characteristics, including environmental setting and facilities, infrastructure, and equipment. It summarizes local community and regional social, economic, cultural, and ecological factors. Section 2 describes the operational history; current and adjacent site uses; off-site contamination; and planned, proposed, or projected future uses of the land, facilities, and equipment.

Section 3 - Summarizes the current status of project activities for contaminated sites and buildings such as identification of contaminant release sites, the associated relative risk, status of assessment, and remediation efforts. It describes the environmental condition of property and principal contaminant concentrations. This section defines the appropriate regulatory programs under which contaminated sites are being addressed and summarizes the history and status of other related elements of the project, including public participation, program management, and support programs.

Section 4 - Presents a summary prioritization of project activities at the NTS and TTR including DOE EM-40 (Office of Environmental Restoration) Relative Ranking Evaluation and the EM Risk Data Sheets.

Section 5 - Describes the project strategy, including key assumptions and strategies for characterization, remedy selection, and regulatory compliance. It presents strategies and plans for defining, sequencing, and streamlining actions at individual contaminated sites. The section summarizes those strategies related to other program elements including program management (e.g., funding), public participation, environmental justice, waste management, surveillance and monitoring, and technology development. Critical performance criteria for measuring the success of the project program are included in this section.

Section 6 - Presents a master schedule of planned and anticipated activities to be performed throughout the duration of the project. It identifies regulatory compliance schedules and specific milestones.

Section 7 - Identifies specific technical and administrative issues that affect the project both directly and indirectly and which must be addressed and resolved by the Project Team or a higher authority if necessary. Special site initiatives that will enhance project efficiency are identified on this section.

Appendix A - Provides past cost data as well as projected budgeted cost information for NTS and TTR activities.

Appendix B - Presents a tabulated listing of significant project documents.

Appendix C - Summarizes decision documents and Records of Decision (RODs) for remedial actions or which require no further action.

Appendix D - Presents conceptual models depicting contaminant sources, transport mechanisms, exposure pathways and routes, and receptors for contaminated sites exhibiting high relative risk.

Appendix E - Summarizes project controls, including responsibility assignment matrices (RAMs), change-control thresholds, and reporting requirements.

Appendix F - Reflects the current work breakdown structure for the project.

### **1.3 Environmental Restoration Objectives**

The overall objective of the project is to effectively implement project activities in a manner that is consistent with regulatory requirements and agreements and that provides for the continued protection of human health and the environment.

#### **1.3.1 Technical Objectives**

The technical objectives of the project are to:

- Identify inactive or surplus sites and facilities that are not in compliance with environmental regulations and DOE Orders.
- Fully characterize contamination and groundwater conditions that are applicable to these sites and facilities.
- Implement plans to properly discontinue operations and complete decontamination and decommissioning of applicable facilities.
- Develop strategies for remediation of sites through the conduct of site investigations and alternative evaluations and the development of remedial action plans.
- Implement selected remedial strategies in a timely manner.
- Establish a comprehensive program to develop and evaluate innovative technologies for site characterization and remediation.

Performance against these objectives is measured by the degree to which all work products and related remedial action decisions can be technically defended using data that meets preestablished Data Quality Objectives (DQOs).

Regulatory guidelines that direct the technical objectives include, but are not limited to, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); Resource Conservation and Recovery Act (RCRA); Hazardous and Solid Waste Amendments to RCRA; National Environmental Policy Act (NEPA); the Safe Drinking Water Act; and applicable state statutes and administrative codes.

Each subproject within the project will have site- or task-specific technical objectives defined as part of subproject plans.

### **1.3.2 Schedule Objectives**

The overall schedule objective for the project is to complete remediation of identified sites prior to 1989 by the year 2019. Environmental restoration activities are phased according to regulatory processes and priorities to facilitate successful completion of this objective. For each group of similar sites, work will be conducted in two phases: site characterization/assessment and site remediation. Work will be performed to correspond with requirements of the agencies regulating the site.

### **1.3.3 Cost Objectives**

The cost objective of the project is to complete project activities within established resource plans. However, because the project is currently engaged in investigation activities aimed at identifying both the type and extent of required environmental restoration activities. Definitive cost estimates are not yet available. Total project costs based on available data are being developed as part of the project BASELINE which will be completed in May 1996.

Accuracy of currently identified costs is highly dependent on future findings as to the nature and extent of contamination, regulatory interpretations of data sufficiency and cleanup levels, and the selected cleanup remedies.

### **1.3.4 Environment, Safety, and Health Objectives**

The Nevada Environmental Restoration Project is committed to ensuring that risks to the environment and to human health and safety are either eliminated or reduced to acceptable levels. All work performed will be consistent with DOE Order 5480.1B, *Environmental Protection*,

*Safety, and Health Protection Program for DOE Operations; Title 29 Code of Federal Regulations (CFR) Part 1910; Title 40 CFR Parts 260-271; Title 40 CFR Part 300; and applicable state and federal environment, safety, and health regulations.*

### **1.3.5 Quality Assurance Objectives**

The overall quality assurance (QA) objective of the Nevada Environmental Restoration project is to ensure compliance with all applicable requirements. All quality assurance manuals and procedures will be consistent with DOE Order 5700.6, *Quality Assurance*; applicable quality assurance requirements; and guidance associated with the underlying regulatory programs.

### **1.4 Project Team**

A Project Team has been established to implement the process. The Project Team includes key personnel from DOE/NV; IT Corporation, which provides project management and characterization support; Bechtel Nevada, which is responsible for remediation activities; and several national laboratories and federal agencies that provide technical and scientific support. The process also considers active and constructive participation by regulators and stakeholders to be integral to the success of the process. Table 1-1 lists the Project Team's core members and key participants.

### **1.5 Organizational Interfaces**

The accomplishment of project mission and objectives requires guidance, oversight, and support of various DOE and external organizations. The functions of these organizations, their relationship to project, and their organizational interfaces are described in Table 1-2. Figure 1-1 depicts the DOE/NV's organizational structure.

#### **1.5.1 DOE/NV Participants**

- Office of Assistant Manager for Environmental Management - The office of Assistant Manager for Environment Management ensures that environment, safety, security, and health objectives are met in DOE/NV project activities; provides matrixed personnel support to projects; and provides independent oversight of project activities to determine compliance with applicable requirements, regulations, and standards.

Within this, the Environmental Protection Division also serves as the formal interface with the state of Nevada and federal regulators for matters pertaining to environmental compliance, including environmental permits, coordination of inspections, and establishing agreements for achieving compliance.

**Table 1-1**  
**Nevada Tonopah Test Range Project Team**  
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<b>Core Project Team Members</b>					
<b>Name</b>	<b>Title</b>	<b>Organization</b>	<b>Responsibility/Subject Area</b>	<b>Phone</b>	<b>E-mail Address</b>
Stephen Mellington	ER Div. Director	DOE-NV	DOE-NV ER Project	(702) 295-0844	
Janet Appenzeller-Wing	Project Manager Field Operations Manager	DOE-NV	Offsites	(702) 295-0461	
Kevin Cabble	Assistant Manager	DOE-NV	TTR Industrial Sites	(702) 295-5000	
Steven Lawrence	Project Manager	DOE-NV	Technical Integration	(702) 295-1078	
Frank Maxwell	Assistant Manager	DOE-NV	Offsites	(702) 295-1050	
Bobbie McClure	Environment Protection Specialist	DOE-NV	Strategic/Project Planning, Control and Reporting, HQ Interface	(702) 295-1862	
Runore Wycoff	Regulatory Specialist	DOE-NV	Regulatory Compliance, Community Relations	(702) 295-0250	
Kevin Rohrer		DOE-NV	ER Contact for Citizen Advisory Board & Public Affairs	(702) 295-0197	
David Shafer	Program Manager	DOE-HQ EM-45	Policy, Budget, Oversight	(301) 903-3979	david.shafer@em.doe.gov
Ethan Merrill	Program Manager	DOE-HQ EM-45	Policy, Budget, Oversight	(301) 903-8185	ethan.merrill@em. doe.gov
Paul Lievendorfer	Chief	State of Nevada Dept of Env Prot	Chief of Bureau of Federal Facilities		
Dale Schutte	Chairman	Citizens Advisory Board	Chairman of the Citizens Advisory Board		
Robert Bangerter	Project Manager	DOE/NV	Underground Test Areas	(702) 295-7340	
Monica Sanchez	Project Manager	DOE/NV	Soils	(702) 295-0160	
Thomas Greene	Assistant Project Manager	DOE/NV	Offsites	(702) 295-0513	
Kevin Leary	Assistant Project Manager	DOE/NV	Soils	(702) 295-0184	
David Hippensteel	Assistant Project Manager	DOE/NV	Underground Test Area	(702) 295-1467	
Jonathan Pickus	Data Management Specialist	DOE/NV	Database Integration/CAU Prioritization	(702) 295-0515	
Patricia Hall	Environment Protection Specialist	DOE/NV	AIPs, Grants, FFA Admin.	(702) 295-0193	
Sheila Arceo	Environment Engineer	DOE/NV	Change Controls/PMS	(702) 295-0146	
K.C. Thompson	Physical Scientist	DOE/NV	Cost Estimating/PTS	(702) 295-0187	
Richard Pearl	Hydrologist	DOE/NV	Hydrogeologic Support	(702) 295-0853	
Jim Kennard	Assistant General Manager	Bechtel Nevada	EM-Programs		
Robert Dodge	Project Manager	Bechtel Nevada	Offsites, Industrial Sites	(702) 295-1632	
Ken Ortega	Project Manager	Bechtel Nevada	Underground Test Area	(702) 794-5526	
Mary Lou Brown	Project Manager	IT Corporation	EM-Projects	(702) 794-1701	
Dick McKinley	Project Manager	IT Corporation	Soils	(702) 794-1703	
Mark Hampton	Project Manager	IT Corporation	Underground Test Area	(702) 794-1502	
Ken Beach	Project Manager	IT Corporation	Industrial Sites	(702) 794-1516	
Rick Deshler	Project Manager	IT Corporation	Off sites	(702) 794-1724	
Doug Trudeau		Contractor	USGS - Technical Advisor	(702) 897-4004	
Robert Clark		Contractor	PAI - Program Support	(702) 794-0290	
Roger Jacobson		Contractor	DRI - Technical Advisor	(702) 295-0474	
Ward Hawkins		Contractor	LANL - Technical Advisor	(505) 665-7996	
Gayle Polaski		Contractor	LLNL - Technical Advisor		
<b>Other/Technical Team Members</b>					
<b>Name</b>	<b>Title</b>	<b>Organization</b>	<b>Responsibility/Subject Area</b>	<b>Phone</b>	<b>E-mail Address</b>
Leah Dever	Assistant Manager Environmental Management	DOE/NV	DOE/NV EM Project	(702) 295-0952	
Peter Sanders		DOE/NV	DOE - Environmental Protection	(702) 295-1037	
Joanne Burrows		DOE/NV	DOE - Health Physics	(702) 295-0995	
Cynthia May		DOE/NV	DOE - Budget Resource Management	(702) 295-0968	

## Organizational Interfaces

(Page 1 of 2)

Name of Organization	Role/Responsibility
<b>DOE/NV Participants</b>	
Office of Assistant Manager for Technical Support	Ensures that environment, safety, security, and health objectives are met in DOE/NV project activities; provides matrixed personnel support to projects; and provides independent oversight of project activities to determine compliance with applicable requirements, regulations, and standards. Serves as the formal interface with the state of Nevada and federal regulators for matters pertaining to environmental compliance.
AM for Business and Financial Services	Ensuring the financial integrity of DOE/NV by developing and implementing appropriate policies and procedures to provide advice and assistance.
Office of Chief Counsel	Provides legal advice and assistance on matters of law and legal policy which arise in connection with functions administered by DOE/NV.
Public Affairs Office	Develops and administers programs for public information and education and serves as the primary interface with the media and the public.
<b>Other Project Participants</b>	
Bechtel Nevada	Provides architectural, engineering, and inspection services, including design drawings and detailed cost estimates for remediation and decontamination and decommissioning of inactive facilities, support for the drilling, completion, and testing of characterization and monitoring wells, and provides site development activities.
IT Corporation	Provides project planning and management support, including preparation of work plans, technical strategy plans, characterization plans, quality assurance plans, and health and safety plans.
Desert Research Institute (DRI)	Provides technical support and consultation, including laboratory and field analytical support, specialty borehole geophysical logging, and field liaison support; cultural resource surveys and studies.
Professional Analysis, Inc. (PAI)	Provides support for activities involving the public, and independent cost-estimating.
DOE National Laboratories	Lawrence Livermore National Laboratory (LLNL) and Los Alamos National Laboratories (LANL) provide technical support, independent review, parallel investigations, and radiochemistry analysis support to groundwater characterization activities.
U.S. Geological Survey (USGS)	Provides technical support for hydrologic measurements of water table depth, aquifer characterization, borehole geophysical logging, field geophysics, and regional and local geologic interpretations of groundwater characterization activities.
U.S. Environmental Protection Agency	The EPA's Environmental Measurement Systems Laboratory performs monitoring activities at the eight off-site locations where nuclear testing activities have occurred in the past.
Community Advisory Board	The mission is to review plans and programs of the DOE/NV and provide citizens recommendations and advice for areas of responsibility covered by the DOE/NV ERWM programs.

- Assistant Manager for Business and Financial Services - The Assistant Manager for Business and Financial Services is responsible for ensuring the financial integrity of DOE/NV by developing and implementing appropriate policies and procedures to provide advice and assistance for effective management of DOE/NV finances and related activities. In addition, this office develops and maintains integrated financial accounting and financial management systems and provides oversight of all financial management activities relating to programs and operations.
- Office of Chief Counsel - The Office of Chief Counsel provides legal advice and assistance on matters of law and legal policy which arise in connection with functions administered by DOE/NV. This office also assists in the development of solutions to technical and administrative problems in accordance with legal policies and responsibilities and coordinates the investigation and resolution of complaints and claims.
- Public Affairs Office - The Public Affairs Office develops and administers programs for public information and education and serves as the primary interface with the media and the public. This office coordinates all external interviews, community meetings, and public outreach programs.
- Other DOE/NV Organizations - Upon request, other DOE/NV organizations provide advice and guidance to ensure that all DOE policies, requirements, and procedures are met. They provide matrixed support in specialized areas such as information management, security, and procurement.

### ***1.5.2 Other Project Participants***

Numerous organizations share responsibilities in the Nevada Environmental Restoration Project.

- Bechtel - Provides architectural, engineering, and inspection services, including design drawings and detailed cost estimates for remediation and decontamination and decommissioning of inactive facilities, support for the drilling, completion, and testing of characterization and monitoring wells, and provides site development activities. Other support includes field survey and materials testing laboratory services for design and construction activities, and project management control and reporting support. The contractor/user reports to the DOE/NV Office of Assistant Manager, Environmental Management Performance Measurement System which, in turn, implements the DOE/NV reporting process into the DOE/HQ Progress Tracking System.

Bechtel also provides overall operations support to work conducted at the NTS: radiological monitoring and control; maintenance, operations and drilling support services as required during drilling, completion, and testing of wells; construction services including roads and utilities; closure or remediation of RCRA treatment, storage, and disposal units; removal of underground storage tanks; and support in the assessment and remediation of decontamination and decommissioning facilities.

They are responsible for endangered species surveys; airborne, ground, and multispectral remote sensing services; soil stabilization and revegetation studies; and interface between the existing NTS Geographic Information System (GIS) and the comprehensive database management system being developed for the project.

- IT Corporation - IT Corporation provides project planning and management support including preparation of work plans, technical strategy plans, characterization plans, quality assurance plans, and health and safety plans. The company develops the project cost and schedule baseline and Activity Data Sheets; prepares the environmental restoration components of DOE/HQ planning initiatives; and provides technical expertise and support in the development of associated project technical and management plans. Other services include: regulatory support in development of NEPA documents, regulatory agreements, and Agreements in Principle; conducting an Environmental Restoration Site Inventory; providing support for community relations and public involvement activities; acquiring, integrating, managing, and analyzing technical and nontechnical project data; developing remedial criteria, and verifying remedial actions.

Other organizations providing support to the project include:

- Desert Research Institute (DRI) - DRI provides technical support and consultation, including laboratory and field analytical support, specialty borehole geophysical logging, and field liaison support; cultural resource surveys and studies prior to any ground-disturbing activities. DRI is also involved in technology development activities such as optimized well-siting research, development of *in situ* moisture and tritium sensors, and tritium removal technologies.
- Professional Analysis, Inc. (PAI) - PAI provides support for activities involving the public and independent cost-estimating support.
- DOE National Laboratories - Lawrence Livermore National Laboratory (LLNL) and Los Alamos National Laboratories (LANL) provide technical support, independent review, parallel investigations, and radiochemistry analysis support to groundwater characterization activities.
- U.S. Geological Survey (USGS) - The USGS provides technical support for hydrologic measurements of water table depth, aquifer characterization, borehole geophysical logging, field geophysics, and regional and local geologic interpretations of groundwater characterization activities. The agency also conducts parallel investigations to validate the primary results from groundwater characterization studies.
- U.S. Environmental Protection Agency (EPA) - The EPA's Environmental Measurement Systems Laboratory performs monitoring activities at the eight off-site locations where nuclear testing activities have occurred in the past. Further involvement of the agency in project activities is dependent on negotiations with the applicable states as to the final regulatory authority for project activities.

- Community Advisory Board (CAB) - The CAB will provide citizens recommendations and advice to resolve difficult issues faced in the Environmental Restoration and Waste Management programs. This includes site-specific, clean-up criteria and risk assessment, land use, priority setting, management effectiveness, cost vs. benefit analysis, and strategies for site work management and disposal facilities.
- State of Nevada - Division of Environmental Protection (NDEP) - The NDEP has regulatory and oversight responsibility for the Environmental Restoration and Waste Management programs for the state. They are to ensure that the impacts associated with the release of hazardous substances, pollutants, solid wastes and hazardous waste into the environment are thoroughly investigated by DOE or DOD.
- Defense Nuclear Agency (DNA) - The DNA is the landlord for the NTS.

### **1.6 Status of Management Action Process**

In accordance with guidance from DOE Headquarters EM-40, the Nevada Environmental Restoration Project participated in a MAP preparatory workshop in Albuquerque, New Mexico, in November 1995. This document is intended to meet the requirements of a preliminary draft process document (due February 1, 1996). The document will be revised by April 1996 in order to serve as a concise support reference for the Department's FY 1998 Internal Review Board presentation.

### **1.7 Strategy for Management Action Process**

The Project Team meets regularly in conjunction with status/working meetings to discuss and resolve strategic and high-priority issues. The Project Team meetings serve as a forum for assessing progress, obtaining consensus on problem issues, and eliminating confusion regarding environmental activities. This communication among involved parties eliminates duplication of effort and assists in decisions concerning how best to use limited resources. The Project Team concept and meeting goals are described below.

### Project Team Concept

- Participation is need-driven.
- Party with an issue is responsible for issue presentation.
- Project Team goals are to conduct “bottom-up” review of all past and ongoing environmental programs at the NTS; compile and adopt recommendations for streamlining and/or otherwise expediting ongoing restoration-related activities; and assembling and writing the MAP document.
- Maintain program integrity, regularly update the MAP document, and continue issue resolution on an as-needed basis

### Project Team Meeting Goals

- Conduct elements of the bottom-up program review.
- Resolve "global" technical, operational, and administrative issues.
- Discuss modifications to agreements based on strategies that are developed.
- Resolve technical issues identified during the MAP for:
  - Specific sites
  - Methodologies and technologies
  - Proposed cleanup plans and schedules
- Reach consensus on procedural, organizational, and operational issues:
  - Data Quality Assurance/Quality Control (QA/QC) analyses
  - Data validation, data quality assessment, and data management
  - Background contaminant concentration determination
  - Risk assessment protocols
  - Relative risk ratings for sites
  - Data gaps and information gaps
  - Improved contracting approaches
  - Schedule modification

The following issues will be considered for inclusion as action items and prioritized by the Project Team during its FY 1996 and/or subsequent meetings:

- Discuss the MAP and its implementation through Project Team meetings.
- Prioritize and assign action items.
- Evaluate and determine the relative risk associated with each contaminated building and release at each site.
- Review long-term costs associated with "core" program activities, including program management and maintaining surplus facilities, and also identify potential opportunities to reduce these costs.
- Review key program assumptions and develop contingency plans in case of changes in key assumptions.
- Evaluate emerging technologies.
- Review the comprehensive Master Schedule to determine related compliance projects which should be better defined or added.
- Perform periodic updates and modifications, as needed, and identify opportunities for combining remedial activities or for critical-path concerns.
- Evaluate progress and status in identifying and addressing data gaps.
- Review contracting strategy for planned remedial design/remedial action services.
- Review upcoming projects.

Branch of the U.S. Department of Defense. Has landlord representatives at NTS. Participating in FFACO as a consignor with DOE/NV.

## 2.0 Site Description and Comprehensive Planning

### 2.1 *Operational History*

#### *Nevada Test Site*

For over 40 years, the primary mission of the U.S. Department of Energy, Nevada Operations Office, was to conduct field testing of nuclear explosives in connection with the research and development of nuclear weapons (Table 2-1). This testing was conducted primarily at the NTS, which was established in 1950 when President Truman authorized a continental weapons testing area at the Las Vegas Bombing and Gunnery Range. The NTS is located approximately 65 miles (mi) northwest of Las Vegas, Nevada (Figure 2-1), in a sparsely populated region that is approximately the size of Rhode Island. The site encompasses 1,350 square miles of desert and mountainous terrain surrounded on three sides by the NAFR, which provides a substantial buffer between the site and public lands. The comparative size of the NTS is illustrated in Figure 2-2.

Above-ground nuclear atmospheric tests were the predominate activity at the NTS in the 1950s. Approximately 100 of these tests were conducted before 1963 when underground tests became the preferred method for conducting nuclear tests. Nearly 1,021 nuclear tests were conducted at the NTS until nuclear testing was halted in October 1992 by Presidential Order. There were an additional 128 low-level safety shots conducted on the NTS, TTR and NAFR, as well as eight off-site tests at locations in five states, primarily in support of the Plowshare and Vela Uniform programs. The tests at the off-site locations ended in 1973 and are discussed in the MAP document for the Nevada Off-Site Locations.

In addition to weapons testing, the NTS has also hosted secondary missions: neutron and gamma-ray interaction studies; open-air reactor, nuclear engine, and nuclear furnace tests; hazardous materials spill response testing; and experiments involving both radioactive and nonradioactive materials conducted by the U.S. Department of Defense.

The TTR, which is located to the northwest of the NTS, has been historically used by the DOE's Albuquerque Operations Office and the U.S. Department of Defense for research and development of ordnance delivery systems through field tests, electronic combat training missions, and other activities. For cost and project management efficiency, the DOE has consolidated management of all its environmental restoration activities for both sites under the purview of DOE/NV.

Table 2-1

## History of Operations

Period	Program Office	Type of Operation	Hazardous Substance Activities	Map Reference
1951-1962	US Atomic Energy Commission (AEC)	Atmospheric and safety shot testing	Transuranics (plutonium, americium, depleted uranium) Radionuclides Lead Low-Level Waste	Double Tracks TTR Area 11 - NTS Area 5 - NTS
1957-1992	US AEC/DOE	Underground nuclear testing	Radionuclides (tritium) Low-Level Waste	Frenchman Flat Areas 5, 11 - NTS Pahute Mesa Areas 18, 19, 20 - NTS Yucca Flat Areas 1, 2, 3, 4, 6, 7, 8, 9, 10 - NTS Rainier Mesa Area 12 - NTS Climax Mine Area 15 - NTS Off-sites - Sec off-sites MAP
1959-1973	US AEC/NASA	Nuclear reactor, nuclear engine, & nuclear furnace tests	Radionuclides	Area 5 - NTS
1960s	US AEC	Bare reactor experiment - Nevada	Radionuclides	Area 5 - NTS
	Defense Nuclear Agency	Landlord - NTS		

DOE's Environmental restoration activities on the NAFR are conducted in coordination and consultation with the U.S. Air Force and are treated as a subset of NTS and TTR activities. Environmental restoration activities at both sites are focused on the characterization and remediation of sites and facilities contaminated as the result of the historic nuclear testing activities.

At present, the NTS is also one of the primary low-level waste disposal sites for the DOE complex, and it is assumed this role will continue in support of the DOE Environmental Management program.

## **2.2 Environmental Setting**

### **3 Climate**

The continental arid climate of the NTS is typical of the southwestern high desert region and is characterized by large diurnal temperature ranges, high insolation, limited precipitation, and low relative humidity (DOE, 1986b; Gonzalez, 1988) (Figure 2-3). The hottest months are generally July and August, with an average monthly temperature of about 24.8 degrees Celsius (°C) (76.6 degrees Fahrenheit [°F]) and an average diurnal temperature range of nearly 22°C (72°F). Temperatures at or near freezing have been recorded in all months except July and August. December is usually the coldest month of the year, with a monthly average temperature of approximately 1.8°C (35.3°F).

The NTS lies in one of the most arid parts of Nevada, the most arid state in the nation. Pacific air masses generally drop most of their moisture on the western slopes of the Sierra Nevada, and little moisture is left to precipitate on the eastern slopes. It is more common for precipitation to reach the area in winter months, but summer thunderstorms can also be significant sources of moisture (DOE, 1986b).

Precipitation at the NTS ranges from 7.6 to 15.2 cm (2 to 6 in.) in the flats to 28 cm (11 in.) in upland areas. Rainfall at Yucca Flat averages about 18 cm (7 in.) per year (DOE/NV, 1988). The evaporation of standing water at Yucca Flat is at least 152 cm (60 in.) per year and perhaps as high as 203 cm (80 in.) per year (DOE, 1988).

Wind direction, is generally from the north except during the months of May through August when south-southwesterly winds predominate. Wind speeds average 12.9 kilometers per hour (km/h), or 3.6 meters per second (m/S) 8 mi per hour (mi/h), or 11.8 ft per second (ft/s), with

maximum average wind speeds of about 22.7 km/h or 6.3 m/s (14 mi/h or 20.7 ft/s) associated with spring and summer southerly winds (DOE, 1986b).

### **2.2.2 Biological Resources**

A total of 706 taxa of vascular plants representing 67 families has been collected within or near the boundaries of the NTS. The greater part of the NTS is vegetated by various associations of desert shrubs representative of the Great Basin and Mojave Desert and the transition zone between the two. Vegetation at the higher elevations of the NTS may be described as desert shrub/woodland. Typically, desert shrub associations appear as scattered individual plants or clumps of plants with large areas of bare soil or rock between. Coverage of the soil surface by shrubs is generally in the range of 15 to 30 percent. Although desert shrubs or desert shrub/woodland associations predominate, herbaceous plants are also numerous on the NTS. About one-third of these species belong to one of three families (i.e., Composite or sunflower family; Gramineae or grass family; and Polygonaceae or buckwheat family) (ERDA, 1977).

Animals at the NTS include small mammals (e.g., rabbits and mice), larger mammals (e.g., coyotes), aves, arthropods (e.g., insects, spiders, and scorpions), and reptiles (e.g., snakes and lizards). The only plant or animal species identified on the NTS that is currently listed or proposed for listing under the Endangered Species Act of 1973 is the desert tortoise (*Gopherus agassizii*) which was listed as a threatened species in 1990 (Figures 2-4 and 2-5).

### **2.2.3 Topography**

The NTS lies in the Great Basin section of the Basin and Range physiographic province that encompasses Nevada, Arizona, and western Utah. The Basin and Range province was formed by east-west tectonic extension that stretched the original crust over 100 percent. Large north-south striking normal faults accommodate the extension, resulting in long, thin, parallel, north-south-oriented mountain ranges separated by down-dropped basins. The ranges are steep-sided and are relatively constant in elevation and width. The basins are broad and flat.

On the NTS, the high elevations are on Pahute Mesa, approximately 2,205 m (7,230 ft) above mean seal level (amsl), and Rainier Mesa, approximately 2,345 m (7,690 ft) amsl. The lowest elevations are in Frenchman Flat and Jackass Flat, both at approximately 910 m (3,000 ft) amsl. The NTS can be generally described as ranging from about 910 to 1,370 m (3,000 to 6,900 ft) amsl in the high country toward the northern and western boundaries (ERDA, 1977).

There are three principal valleys within the NTS: (1) Yucca Flat, a north-south elongated, closed basin with Yucca Lake, a dry lake (playa), at the southern end; (2) Frenchman Flat, an oval-shaped, closed basin with Frenchman Lake (a playa) at the center; and (3) Jackass Flat, a valley that drains off the NTS at its southwest corner. Pahute Mesa, Rainier Mesa, Timber Mountain, and Shoshone Mountain are prominent highland areas that dominate the NTS landscape (ERDA, 1977). Figure 2-6 shows major topographical features of the NTS.

#### **2.2.4 Geology**

The mesa and upland areas in the northwestern section of the NTS contain soils developed from local bedrock that weathered in place. The smaller mountains and ridges in the southern and eastern parts of the NTS are completely eroded to bedrock or contain thin residual soils. Their slopes are covered by coarse alluvial deposits that fan onto the plains of the basins which contain very thick, finer-textured alluvial soils. These soils are mainly derived from tuffs and limestones and include quartzite, shale, dolomite, and granite washed down from the surrounding mountains. The NTS soils are generally alkaline (pH 8 to 9) and tend to be well-drained except through the hardpan where infiltration is very slow. They have a low moisture content of 3 to 9 percent (DOE/NV, 1988). Deep soil-water movement (below the depth of active evaporation and transpiration) is possible in areas where the surface is highly permeable (e.g., mesa tops, fractured bedrock surface, and wash bottoms).

A generalized stratigraphic column for the NTS is presented in Figure 2-7. The subsurface geology at the NTS can be described in terms of three major rock units (ERDA, 1977):

(1) complexly folded and faulted sedimentary rocks of Paleozoic age overlain in many places by (2) volcanic tuffs and lavas of Cenozoic age, which are covered in the valleys by (3) Late Cenozoic alluvium (i.e., Quaternary and Tertiary), derived from erosion of the nearby hills of Cenozoic and Paleozoic rocks. The volcanic rocks in the valleys are downdropped and tilted along steeply dipping normal faults of Late Tertiary age; although uncommon, the overlying alluvium may be faulted. The Paleozoic rocks have undergone major deformation, produced mainly by thrust faulting in the Mesozoic. The Cenozoic rocks are relatively underformed, and dips are generally gentle. Figure 2-8 shows principal rock types of the NTS.

The Paleozoic sedimentary rocks are thousands of feet thick and are comprised mainly of marine carbonate rocks (dolomite and limestone) with a middle section of clastic rocks (shale and quartzite) (ERDA, 1977). Precambrian and Lower Cambrian clastic rocks form the lower clastic aquitard. The Lower Paleozoic carbonate rocks, deposited between the Middle Cambrian and the

Devonian Periods, form the lower carbonate aquifer. The Middle Paleozoic clastic rocks (Eleana Formation), deposited during the Mississippian period, form the upper clastic aquitard. The Upper Paleozoic carbonate rocks (Tippipah Limestone), deposited during the Permian/Pennsylvanian period, form the upper carbonate aquifer.

The Cenozoic volcanic rocks are predominately rhyolitic tuffs and lavas extruded from various volcanic centers (ERDA, 1977). They vary widely in distribution, thickness, degree of welding, and lithology. The surface on which the oldest Cenozoic volcanics were deposited had substantial topographic relief (up to 600 m [2,000 ft]) that was later filled in by volcanic extrusions. The Cenozoic tuffs form the tuff aquifers and aquitards. Associated Cenozoic sedimentary rocks are conglomerates, tuffaceous sandstones, lacustrine limestones, and claystones.

Late Cenozoic alluvial materials are 600 to 900 m (2,000 to 3,000 ft) thick in the central portions of the valleys and form the valley-fill aquifer.

Extensional block faulting (normal faulting) in the Late Tertiary (miocene) to Early Quaternary characterizes the entire Basin and Range physiographic province. The present topography of the province reflects the underlying faulted structure. The displacement on these faults varies but is generally less than 150 m (500 ft); however, the displacement on some of the faults is much greater.

### **2.2.5 Hydrogeology**

The Colorado River and Lake Mead comprise the two main sources of surface water in southern Nevada. Yucca Lake is a playa on the NTS that holds water during seasonal thundershowers. Aquifers that transmit groundwater in relatively high volumes include the Paleozoic lower and upper carbonate formations, Tertiary welded and bedded tuffs, and Quaternary-Tertiary valley-fill deposits.

The major surface-water body nearest the NTS is the Colorado River, damned at Lake Mead, which is 137 km (85 mi) southeast of Mercury. The Colorado River and Lake Mead are hydrographically isolated from the NTS area and, therefore, do not receive runoff from the NTS.

The only perennial surface-water bodies on the NTS are several small springs and associated pools that occur on the flanks of ranges or the edges of topographic basins. The sources of spring recharge are perched saturated zones in the highland ranges (Winograd and Thordarson, 1975). Surface water features near the NTS are presented in Figure 2-9. Localized surface drainage basins and their corresponding flow patterns at the NTS are presented in Figure 2-10.

Regional groundwater basins present beneath the NTS are shown in Figure 2-11. The Ash Meadows groundwater basin lies under the eastern two-thirds of the NTS. The location of NTS water supply wells are shown in Figure 2-12.

### **2.3 Current Site and Adjacent Uses**

The NTS is surrounded on the east, north, and west sides by public access exclusion areas. These two areas comprise the NAFR, which provides a buffer zone varying from 24 to 104 km (15 to 65 mi) between the NTS and public lands. The combination of the NAFR and the NTS is one of the larger unpopulated land areas in the U.S., comprising some 14,200 sq km (5,470 sq mi). Off-site private lands are predominantly rural, undeveloped desert lands occasionally used for grazing and cultivation. The land to the south of the NTS is controlled by the U.S. Department of Interior, Bureau of Land Management. Figures 2-13 and 2-14 show current land use for the NTS and the surrounding area.

The NTS is accessed from U.S. Highway 95 which roughly forms the southern border of the site. Mercury, the main base camp at the NTS, is located in the southeast corner of the site and approximately 5 km (3 mi) north of U.S. Highway 95. Mercury is comprised of residential and administrative buildings that house general support personnel for other areas of the NTS. Approximately 500 of the 6,000 employees who work at the NTS live in Mercury on a permanent basis.

Existing NTS land use falls into four general categories: underground nuclear weapons test areas, reserved areas, industrial/research areas, and waste management areas. Approximately 25% of the 1,350-square-mile NTS facility is currently unused or provides buffer zones for ongoing programs and projects.

### **2.4 Influencing Factors**

#### **2.4.1 Defense Programs Mission**

DOE's Defense Programs (DPs) are the landlord for both the NTS and TTR, thus DP missions continue to play a dominant role in site activities and budgets.

### **2.4.2 Yucca Mountain**

For many centuries, NTS lands have been a central place in the lives of American Indians. These lands contain traditional gathering, ceremonial, and recreational areas for Native Americans. Because of the defense mission of the site, NTS lands have been withdrawn by the U.S. Federal Government since 1943. Despite the loss of access to these lands, Native American tribes have neither lost their ancestral ties to, nor have forgotten, their cultural resources on the NTS. Native American Tribes with cultural ties to the NTS continue to play a key role in determining future land uses. In addition, a key issue with Native Americans is recognition of tribal governments as autonomous government entities (Figure 2-15).

### **2.4.3 Yucca Mountain**

Yucca Mountain is currently under consideration for the location of the nation's first high-level radioactive waste repository. Some portions of NTS have been set aside for use during site characterization studies. Although state political representatives and the public generally support current DOE operations at NTS, similar support has not been expressed regarding the possible selection of Yucca Mountain as the site for a high-level radioactive waste repository.

### **2.4.4 Tourism Risk Perceptions**

Tourism is the most important economic factor within the state of Nevada. Should tourists perceive risk as the result of NTS activities, the Las Vegas economy would be severely impacted.

### **2.4.5 Transportation**

A principle concern to all stakeholders is the safe transportation of material through population centers. The data reflected in Figure 2-16 highlights some of the reasons for these concerns; due to the increased transport of materials to the NTS in FY 1995.

### **2.4.6 Cultural Resources**

Over 1,700 archeological sites (Figure 2-17) have been identified on the NTS, including historic and prehistoric sites. Prehistoric sites include residences, temporary camps, extractive localities, processing localities, caches, and stations. Historic sites include mining sites, ranching sites, and transportation and communication sites. Other historic types are those related to nuclear testing

and research.

## **2.5 Facilities, Infrastructure, and Equipment**

### ***NTS Infrastructure***

Over the years, the importance of programs conducted at NTS has led the United States to invest heavily in the infrastructure of the massive NTS outdoor laboratory. Today the capital assets at the NTS include more than 1,000 buildings valued at approximately \$700 million.

The Mercury Logistics Base Camp, at the main entrance to the NTS, is the second largest community in Nye County. It has a cafeteria that can seat 444 people and a Steak House restaurant seating 190. Dormitories and pads for personally owned recreational vehicles and trailers can house more than 1,200 people. Mercury also offers:

- Office space
- An eight-bed hospital
- Repair shops
- Major motor pool
- Laboratory facilities include:
  - Analytical Laboratory
  - Los Alamos National Laboratory "Mouse House"
  - Six stations throughout the NTS that allow for quick measurements of alpha and beta contamination
  - Calibration laboratory that calibrates all types of radiation detection equipment
  - Radiological analytical laboratory, a dosimetry laboratory, and a calibration facility
- Recreational facilities include:
  - Gymnasium
  - Rubberized jogging track
  - Softball field
  - Theater
  - Bowling alley
  - Putting green, driving range
  - Tennis courts
  - Olympic-size swimming pool
- A modern fire station and a substation for the Nye County Sheriff's Department
- Many warehouses
- Telephone and communications center
- Computer facilities
- Power distribution center

- Maintenance repair shops
- Property control facilities
- Training facilities

The Area 12 camp near the north end of the NTS, although now on standby status, can house an additional 775 people overnight. Area 12 camp also has a cafeteria, a recreation hall, theater, heavy-duty equipment repair shop, and other support facilities.

Office space, shops, warehouses, and medical stations also exist at several other central locations on the site. The NTS also has about 400 miles of primary and secondary surfaced roads, 300 miles of unsurfaced roads, two airstrips, and five heliports.

The NTS water system consists of 14 active wells (with pumps, boosters, sumps, reservoirs, and chlorinator water softeners) and more than 100 miles of supply and distribution lines. The wells produced 6,139 gallons of water per minute, more than 8.8 million gallons per day, or 9,900 acre-feet per year. Inactive wells, if brought back on-line, could supply an additional 1,342 gallons per minute, 1.19 million gallons per day, or 2,200 acre-feet per year. Depths of the NTS wells range from 817 feet to 1,823 feet. The capacity of the distribution system could be enhanced by increasing pump sizes or installing new wells.

The site also boasts 598 miles of electrical transmission lines. NTS power loads currently are served from two independent 138-kilovolt transmission lines. In addition, 20 megawatts of on-site diesel generation is available for emergency backup power. The capacity of the NTS transmission system, after scheduled upgrades, will be approximately 45 megawatts. In addition, the NTS is located within 110 miles of large, 500-kilovolt transmission lines, part of the Southern Nevada hub for several key power transmission corridors connecting major load centers and generation systems in Utah, California, Nevada, and Arizona.

Only 7.88 percent of the site has been impacted by testing and construction over the past 42 years. The remaining 1,200 square miles is essentially undisturbed land available for future uses as applicable to future missions of the site.

## **2.6 Future Uses for Land, Facilities, and Equipment**

### **2.6.1 Nevada Test Site**

The NTS currently is projected to remain under DOE institutional control until new directions in mission and land use are determined (Figure 2-15). A Site-Wide Environmental Impact Statement (EIS) is in progress, and a formal land use plan will be developed based on the results of that effort. Several public briefings have been held to obtain public input, which has provided valuable feedback to both the EIS and land-use planning processes.

For purposes of this MAP, it has been assumed that areas of land that are not currently set aside for testing will be assessed and remediated, and made available for potential future beneficial use, including new missions for the NTS. It is anticipated that the Southwest Quadrant will be the first area made available for future beneficial use.

The site-wide EIS evaluates the following four alternatives:

- Alternative 1 - Continue current operations (no action). Ongoing DOE and interagency programs and activities at NTS and other associated areas in the state of Nevada would be continued under this alternative (Figure 2-18).
- Alternative 2 - Discontinue operations. All current and planned programs, activities, and operations would be discontinued under this alternative. Only the environmental monitoring and site security functions necessary for human health, safety, and security would be maintained (Figure 2-19).
- Alternative 3 - Expanded NTS use. NTS and its resources would be made available for increased use to support national programs of both a defense and nondefense nature (Figure 2-20).
- Alternative 4 - Alternative use of withdrawn lands. Under this alternative, all defense-related activities and most DOE “Work for Others” program activities would be discontinued. Certain programs and activities that are not currently included in the NTS mission responsibilities are also evaluated. This alternative could include other activities, such as the relinquishment of portions of NTS, that would be dependent upon future land use designations and withdrawal status (Figure 2-21).

Five categories of mission activities representing DOE's primary responsibilities are included under each alternative: Defense Programs, Waste Management, Environmental Restoration, DOE nondefense research and development, and Work for Others (defense-related research) programs.

Risk assessments will also be conducted, as appropriate, to determine future land uses. As these activities are completed and the final decisions reached, the accumulated data will be reflected in future revisions of the MAP. A Resource Management Plan for the NTS will build on the extensive data collection and public participation activities associated with the Site-Wide EIS.

This plan will identify the criteria for evaluating the compatibility of activities with human health and safety, ongoing missions, existing infrastructures, cultural and natural resources, public values, and other resource issues and constraints. For purposes of baselining project activities, future use has been assumed to be increased use of the NTS for industrial purposes. Management of the lands is assumed to remain under DOE purview.

The future use of the Tonopah Test Range is anticipated to remain the same as it is at present, thus institutional control will remain in effect for the foreseeable future.

## 3.0 Status of Environmental Restoration Activities

### 3.1 *Current Environmental Restoration Activities*

#### *Nevada Test Site*

Most sites and facilities within the Nevada Environmental Restoration Project have not yet been characterized because of their extensive number. Characterization of NTS and the TTR inactive sites and facilities will be accomplished in three phases. The first phase consists of researching process knowledge, performing the necessary planning stage for a field investigation, development of Data Quality Objectives, and, if necessary, gathering preliminary data. The second phase employs more intrusive techniques, such as drilling, to determine the presence and concentration of contaminants and extent of migration. A third phase, if needed, is employed to define the vertical and lateral extent of contamination more fully. Assessment culminates with a report detailing findings about the contamination at the site and the risk it presents to workers, the public, and the environment. Table 3-1 summarizes the status of the Nevada Environmental Restoration Project and Table 3-2, the status of land at the NTS. Figure 3-1 shows the current environmental conditions of the NTS property, using the following seven categories:

- Area where no storage, release, or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent areas.)
- Areas where only storage of hazardous substances or petroleum products has occurred (but no release, disposal, or migration from adjacent areas)
- Areas where storage, release, disposal, and/or migration of hazardous substances or petroleum products has occurred, but at concentrations that do not require a removal or remedial action
- Areas where storage, release, disposal, and/or migration of hazardous substances or petroleum products has occurred, and all remedial actions necessary to protect human health and the environment have been taken
- Areas where storage, release, disposal, and/or migration of hazardous substances or petroleum products has occurred. Removal and/or remedial actions are under way, but all required remedial actions have not yet been taken

Figures 3-2 through 3-5 show the location of NTS release sites, Corrective Action Units, Corrective Action Sites, and areas of plutonium-contaminated surface soil.

**Table 3-1**  
**Activity Summary Table**  
 (Page 1 of 4)

Activity Name /Description	OU #	ADS #	Dates of Operation	Hazards /Contaminants	Acres/Vol	Regulatory Phase	Relative Scoring	Cleanup Actions Completed
Disposal Wells Source Groupings	Ind. Sites	214/225	Multi-Year	HAZ/LLW/MLLW	3,900 M <sup>3</sup>	FFACO PA/Si	M	
Inactive Tanks SG	Ind. Sites	214/225	Multi-Year	HAZ/LLW/MLLW	1,040 M <sup>3</sup>	FFACO PA/Si	L	
Contam. Waste Sites SG	Ind. Sites	214/225	Multi-Year	HAZ/LLW/MLLW	35,150 M <sup>3</sup>	FFACO PA/Si	L	
Septic Tanks & Lagoons SG	Ind. Sites	214/225	Multi-Year	HAZ/LLW/MLLW	6,660 M <sup>3</sup>	FFACO PA/Si		
Inactive Ponds & Tunnel Muckpiles SG	Ind. Sites	214/225	Multi-Year	HAZ/LLW/MLLW	33,080 M <sup>3</sup>	FFACO PA/Si	L	
Drains & Sumps SG	Ind. Sites	214/225	Multi-Year	HAZ/LLW/MLLW	750 M <sup>3</sup>	FFACO PA/Si	L	
Ordnance Sites SG	Ind. Sites	214/225	Multi-Year	Unexploded Ordnance	10,240 A	FFACO PA/Si	H	
Bunkers, Chemicals, & Materials Storage SG	Ind. Sites	214/225	Multi-Year	Unexploded Ordnance	190 M <sup>3</sup>	FFACO PA/Si	H	
Spills Sites SG	Ind. Sites	214/225	Multi-Year	Unexploded Ordnance	80 M <sup>3</sup>	FFACO PA/Si	L	
Part A Sites SG	Ind. Sites	214/225	Multi-Year	Unexploded Ordnance	70 M <sup>3</sup>	FFACO PA/Si	L	
Misc. Sites SG	Ind. Sites	214/225	Multi-Year	Sanitary	0 ha	FFACO PA/Si	L	
Double Tracks	Soils	211/22	5/15/63	> 200 pCi/g AM/PU	3 ha	FFACO PA/Si	M	
Clean Slates 1	Soils	211/225	5/25/63	> 200 pCi/g AM/PU	6 ha	FFACO PA/Si	M	
Clean Slates 2	Soils	211/225	5/31/63	> 200 pCi/g AM/PU	26 ha	FFACO PA/Si	M	
Clean Slates 3	Soils	211/225	6/9/63	> 200 pCi/g AM/PU	49 ha	FFACO PA/Si	M	
Project 57 No. 1	Soils	211/225	Multi-Year	> 200 pCi/g AM/PU	0 ha	FFACO PA/Si	M	
Plutonium Valley	Soils	211/225	Multi-Year	> 200 pCi/g AM/PU	73 ha	FFACO PA/Si	M	
GMX	Soils	211/225	Multi-Year	> 200 pCi/g AM/PU	3 ha	FFACO PA/Si	M	
South Yucca Flat	Soils	211/225	Multi-Year	> 200 pCi/g AM/PU	240 ha	FFACO PA/Si	M	
North Yucca Flat	Soils	211/225	Multi-Year	> 200 pCi/g AM/PU	230 ha	FFACO PA/Si	M	
Frenchman Flat	Soils	211/225	Multi-Year	> 200 pCi/g AM/PU	1	FFACO PA/Si	M	
Buckboard Mesa	Soils	211/225	Multi-Year	> 200 pCi/g AM/PU	0 ha	FFACO PA/Si	M	
Pahute Mesa	Soils	211/225	Multi-Year	> 200 pCi/g AM/PU	0 ha	FFACO PA/Si	M	
Sedan	Soils	211/225	7/6/62	> 200 pCi/g AM/PU	0 ha	FFACO PA/Si	M	
Ess	Soils	211/225	3/23/55	> 200 pCi/g AM/PU	0 ha	FFACO PA/Si	M	
Uncle	Soils	211/225	11/29/51	> 200 pCi/g AM/PU	0 ha	FFACO PA/Si	M	
Johnie Boy	Soils	211/225	7/11/62	> 200 pCi/g AM/PU	0 ha	FFACO PA/Si	M	
Danny Boy	Soils	211/225	3/5/62	> 200 pCi/g AM/PU	10 ha	FFACO PA/Si	M	
Cabriolet	Soils	211/225	1/26/68	> 200 pCi/g AM/PU	38 ha	FFACO PA/Si	M	
Palinquin	Soils	211/225	4/14/65	> 200 pCi/g AM/PU	30 ha	FFACO PA/Si	M	
Schooner	Soils	211/225	12/8/68	> 200 pCi/g AM/PU	0 ha	FFACO PA/Si	M	
Buggy	Soils	211/225	3/12/68	> 200 pCi/g AM/PU	19 ha	FFACO PA/Si	M	
Frenchman Flat	UGTA	212/225	Multi-Year	LLW	3,780 ha	FFACO PA/Si	L	
Western Pahute Mesa	UGTA	212/225	Multi-Year	LLW	6,950 ha	FFACO PA/Si	L	
Yucca Flat	UGTA	212/225	Multi-Year	LLW	26,760 ha	FFACO PA/Si	L	
Central Pahute Mesa	UGTA	212/225	Multi-Year	LLW	22,460 ha	FFACO PA/Si	L	
Climax Mine	UGTA	212/225	Multi-Year	LLW	340 ha	FFACO PA/Si	L	

**Table 3-1**  
**Activity Summary Table**  
 (Page 4 of 4)

Activity Name /Description	OU #	ADS #	Dates of Operation	Hazards /Contaminants	Acres/Vol	Regulatory Phase	Relative Scoring	Cleanup Actions Completed
Rainier Mesa/ Shoshone Mountain	UGTA	212/225	Multi-Year	LLW	4,620 ha	FFACO PA/Si	L	
Pluto	D&D	221/225	Multi-Year	Sanitary and LLW	400 M <sup>3</sup>	FFACO PA/Si	L	
Jr. Hot Cell	D&D	221/225	Multi-Year	Sanitary and LLW	9 M <sup>3</sup>	FFACO RD/RA	L	
Super Kukla	D&D	221/225	Multi-Year	Sanitary and LLW	130 M <sup>3</sup>	PA/Si	L	
EPA Farm	D&D	221/225	Multi-Year	Sanitary and LLW	20 M <sup>3</sup>	FFACO RI/FS/PP	L	
Test Cell C	D&D	221/225	Multi-Year	Sanitary and LLW	280 M <sup>3</sup>	PA/Si	L	
E-MAD	D&D	221/225	Multi-Year	Sanitary and LLW	3,280 M <sup>3</sup>	PA/Si	L	
R-MAD	D&D	221/225	Multi-Year	Sanitary and LLW	2,320 M <sup>3</sup>	PA/Si	L	

**Table 3-2  
Status of NTS Lands**

Fiscal Year	Private Lands		DOE Lands				
	Total to be Addressed (acres)	Total Completed and Released	Total Owned by DOE (acres)	DOE Land to be Available for Other Uses	Land That is Available for Other Uses	Remediate Land and Available for Other Uses	Land Not Ready for Other Uses
Pre-FY95			265000				
FY 1995			265000				
FY 1996			265000				
FY 1997			265000	9000			
FY 1998			265000	18000			
FY 1999			265000	27000			
FY 2000			265000	36000			
FY 2001			265000	45000			
FY 2002			265000	54000			
FY 2003			265000	63000			

Postclosure monitoring activities are an essential element of industrial sites closure activities. The activities consist of collecting periodic measurements and/or samples from monitoring wells and effluent streams as stipulated in each unit's Postclosure Care Permit. Condition inspection and maintenance of any remedial systems, such as caps or active systems, is included in estimates of scheduled activities. Sample analysis and preparation of a report for each monitoring period is also included. Post closure monitoring is determined on a case-by-case basis, depending on the specific closure action. The length of time for monitoring at each site is negotiated with the State under its Resource Conservation and Recovery Act authority on a case-by-case basis. Monitoring length is typically 30 years for complex Resource Conservation and Recovery Act sites, but shorter periods of time have been approved by the State.

Postclosure monitoring, to date, includes quarterly monitoring of the Area 23 Hazardous Waste Trenches and U-3fi Injection Well. At this time maintenance of these systems has consisted of condition inspection of the Area 23 closure cap for erosion or other disturbances and monitoring and general integrity of the U-3fi Injection Well unit.

Most sites within the Soils Sites have sufficient background data available regarding the sources of contamination, but some of the data is classified and few of the sites have been characterized because funding for this activity has been significantly constrained. All assessment activities concentrate on determining the type and extent of contamination. Most radiological assessment activities will involve *in situ* measurements using a wide array of instrumental approaches. Some discrete sampling is required to determine the extent of such contamination by wet chemical analysis. Once cleanup levels are established, based on future land use and related risks, cleanup scenarios will be evaluated and documentation prepared for negotiating cleanup procedures, if required.

Assessment activities in the past have concentrated on:

- Determining the extent of plutonium-contaminated soils
- Preliminary testing of soil removal technologies
- Soil stabilization and revegetation experiments at sites at which plutonium-contaminated soil might be excavated
- Retrofitting an existing Nevada Test Site facility into a Treatability Test Facility at which five bench-scale soil volume reduction tests were conducted.

Current assessment activities include completion of the characterization effort in support of an Interim Corrective Action Plan for the Double Tracks site on the Nellis Air Force Range.

Assessment efforts over the next few years will concentrate on Clean Slates 1, 2, and 3 sites on the Tonopah Test Range.

Outyear activities beyond FY 2001 are still being prioritized in site baselining activities, for this estimate it was assumed that assessment activities would continue through FY 2025.

Waste volumes by contaminated media are reflected in the Industrial Sites Introduction. The Soils Sites assessment activities are assumed to be approximately 16% complete; however, this is contingent upon the Federal Facility Agreement and Consent Order with the State.

Contamination in facilities identified for decontamination and decommissioning is generally limited to portions of buildings specifically used for “hot” work on radioactively impacted machinery, equipment, or experiments. Most of the contamination appears to be radioactivity, although other constituents of concern will be investigated. Some facilities also have asbestos-containing materials in their construction, and at least one facility is known to have contamination from polychlorinated biphenyls (PCBs) containing hydraulic oil.

Characterization of the identified facilities includes periodic surveillance and maintenance to document building deterioration, characterization planning, sample collection and analysis, data management, data evaluation, risk/dose assessment, and an assessment report that discusses the nature and extent of contamination present in each facility, release criteria calculations, and the risk/dose assessment. Design for each of the facilities specifies the construction/demolition activities necessary for remediation of facilities. Decontamination and decommissioning remediation activities of identified facilities include one or more of the following options: dismantlement, demolition, encapsulation, entombment, or other operations to achieve the designated disposition alternative for each facility.

### ***3.2 Regulatory Agreements, Consent Decrees, Compliance, and Other Legal Drivers***

The DOE, Nevada Department of Environmental Protection (NDEP), and Defense Nuclear Agency (DNA) are parties to a Federal Facilities Agreement and Consent Order (FFACO) which details the corrective action requirements for environmental restoration activities within the state of Nevada. Terms of the agreement allow the state oversight of characterization activities to

determine if RCRA constituents are present and oversight for remediation sites where RCRA components are present. Management of Environmental Restoration-generated nonradioactive hazardous waste are conducted in accordance with requirements detailed in the RCRA Permit HW-009 issued to the NTS. Low-level mixed waste is managed in accordance with the Mutual Consent Agreement (MCA), revised June 6, 1995. In addition to its obligations under RCRA, the FFACO, and the MCA, project activities are conducted in compliance with applicable DOE orders and policies.

### **3.3 Current Waste Management and Material Disposition Activities**

DOE/NV operates a variety of waste facilities at the NTS. Low-level radioactive waste that originates both from the NTS and from other DOE installations is disposed of on site. Additionally, the site is used to store the current inventory of mixed transuranic waste from Lawrence Livermore National Laboratory pending shipment to the Waste Isolation Pilot Plant (WIPP) in Carlsbad, New Mexico. DOE/NV does not receive funding for Nuclear Materials and Facility Stabilization.

Limited mixed-waste disposal for off-site generators will be available on the NTS pending completion of the Site-Wide EIS and approval from the state of Nevada for the Nevada Test Site's Mixed Waste Analysis Plan. An expanded mixed waste disposal facility will be constructed when the state of Nevada issues the RCRA permit for the expansion of the facility.

Waste disposal for on-site environmental restoration activities is primarily at the Area 3 and Area 5 Radioactive Waste Management Sites on the NTS. Disposal costs are funded by the Nevada Environmental Restoration Project. Low-level waste is disposed of as containerized bulk waste at the Area 3 site. All other low-level waste is disposed of at Area 5. Mixed waste is also disposed of in Area 5, while mixed waste that is above land disposal restrictions limitations is placed on the Transuranic Waste Pad in Area 5 until the waste is treated. Mixed transuranic waste is stored on the Transuranic Waste Pad until shipment to the WIPP can be accomplished. Hazardous waste is shipped off site to approved commercial disposal facilities such as Rawlins Environmental Services with sites in Deer Park, Texas, and Baton Rouge, Louisiana, and Chemical Waste Management with a site at Kettleman Hills, California. Disposal costs for the Area 3 and Area 5 disposal facilities are \$12.63 per cubic foot for FY 1996, \$17.63 per cubic foot for FY 1997 through FY 2021, and then \$68.00 per cubic foot through the outyears. The total volumes of wastes expected to be generated from environmental restoration activities at the NTS are reflected in the Baseline Environmental Management Report.

### **3.4 Program Management and Support**

Activities conducted within this work scope provide management support of the DOE/NV Environmental Management activities that will characterize and remediate sites on the Nevada Test Site, Tonopah Test Range, and Nellis Air Force Range as well as off-site locations in five states. Also encompassed are management of the treatment, storage, and disposal facilities and operations under DOE/NV purview.

Nevada Environmental Restoration Project support activities provide for administrative and technical project management support; project planning, including Activity Data Sheet development; project control, including Project Tracking System and Performance Measurement System reporting; programmatic Quality Assurance and Self-Assessment support; programmatic health and safety support; training; development of programmatic National Environmental Policy Act documentation; waste management coordination; compliance reporting; public participation support and management of the Federal Facility Agreement with the state of Nevada and oversight of Agreements in Principle with other states and associated Grants in support of project activities.

Program direction for DOE/NV EM-40 is not included in this section. Subproject management costs are captured in the direct costs of subproject activities because those costs are directly attributable and required for field activities to be accomplished.

#### **3.4.1 Payments**

- Agreements in Principle

This effort funds the States of Alaska, Mississippi, and Nevada to provide oversight of Nevada Environmental Restoration activities. The Agreements in Principle describe the understandings and commitments between the parties regarding DOE's provision of technical and financial support for state activities in environmental oversight, monitoring, site access, and emergency response initiatives. Activities in Colorado and New Mexico will be addressed in amendments to existing Agreements in Principle managed by other DOE offices.

- Grants

This effort provides for educational and research opportunities for students and faculty at the University of Nevada, Reno, and the University of Nevada, Las Vegas, in support of technical programs being conducted at the NTS.

### **3.4.2 Support Activities**

#### ***Public Participation***

The public has taken an increasing interest in past, current, and future activities at the NTS.

To keep interested parties informed, the following efforts have been undertaken:

- A Community Advisory Board for NTS programs, comprised of local and affected stakeholders, has been established. The board addresses and provides advice to the DOE on environmental restoration, waste management, and technology development issues.
- Numerous fact sheets are available to the public explaining environmental restoration, waste management, and technology development activities.
- The Environmental Restoration and Waste Management Update, a publication dealing with environmental restoration and waste management activities, is distributed to stakeholders in Nevada and other affected areas.
- NTS tours are conducted for environmental groups, leadership groups, legislative bodies, media, local, state and federal agencies, and other members of the public.
- Project documents are issued to stakeholders for their review.
- An DOE/NV Environmental Management exhibits program provides local and state governments, academicians, and the general public with portable exhibits that can be set up and manned at a variety of locations including libraries, shopping malls, city halls, and other locations.
- An Environmental Management Speakers Bureau provides interested audiences information about environmental restoration and waste management activities.
- More than 50 community interviews were conducted in the Spring of 1994 to gain a better understanding of the public's attitudes, opinions, and knowledge of DOE/NV environmental management activities.
- Public meetings are periodically held to discuss the DOE/NV environmental management program including such issues as the budget and transportation of waste.

- Environmental Management representatives recently completed a series of interactions with local city and council officials to solicit opinions on transportation of low-level radioactive waste through Southern Nevada. The information will be used to develop a transportation study for the Site-Wide Environmental Impact Statement.

### ***Educational Outreach Activities***

In order to create an awareness and knowledge base about activities and opportunities in the sciences, DOE and its contractors have pursued an aggressive outreach program for students in the areas surrounding the NTS.

- DOE and contractor employees participate in a Clark County School District program called PAYBAC, which stands for “Professionals and Youths Building a Commitment.” The program encourages students to stay in school by talking to persons who have succeeded in various careers.
- DOE/NV has awarded the Clark County School District a grant for the Whitney Mesa Environmental Education Nature Preserve. The Preserve provides hands-on environmental education experience to enhance classroom lectures on the different sciences, including biology, archaeology, and geology as well as Native American culture.
- DOE and contractor employees working for the DOE/NV environmental management program also participate in a variety of volunteer capacities for educational outreach programs such as the Science Bowl, the Jason Project, Junior Sprint, and Science Now.
- The NTS was officially recognized as a National Research Park in 1992. Through cooperative agreements among the DOE and the University of Nevada System, funding grants are supplied to expand the research park concept. The University of Nevada System has 17 projects underway that address the needs of environmental restoration or waste management. Seven of the projects are renewals from 1994, and ten are new 1995 projects.

## 4.0 Site Relative Ranking

This chapter presents a summary of the relative ranking of release sites at the NTS. The assignment of relative ranking is based on a qualitative evaluation that considers the hazards (i.e., sources), exposure pathways, and receptors for each release site, and it is consistent with the DOE EM-40 Relative Ranking Evaluation Framework that provides input to the EM Risk Data Sheets (RDSs). Other factors may also affect site priorities and are recognized in the RDSs. These factors include compliance, the impact of the activity on site missions, opportunities for cost-efficient measures and reduction of the overall site mortgage, and social/cultural/economic issues. Table 4-1 shows the relative ranking for each release site as well as the RDS scoring for other prioritization factors.

### 4.1 *Underground Test Area*

Current DOE/NV-EM policy regarding future land use scenarios does include the realistic potential for commercial access to up to 70 percent of the current NTS land for industrial purposes. (Areas excluded from this 70 percent include Frenchman and Yucca Flats and the northern Mesas.) Any industrial tenants on this NTS property would require groundwater to support operations. While direct withdrawal of contaminated groundwater would not be allowed, use of other noncontaminated sources of groundwater would accelerate the future migration of existing groundwater contamination. It is expected that such withdrawal activities would slightly increase the risks to those commercial tenants. Site personnel would have exposure hazards increased due to the necessity to more completely characterize future groundwater contamination migration. Such increased levels of confidence in knowing the 3-dimensional extent of groundwater contamination would be driven by the need to actively manage groundwater withdrawal rates for potential users less than 50 miles away rather than at the current NTS boundaries.

Current contamination plumes exist outside the NTS boundary. If a member of the public were to drill a drinking water well into the contaminated aquifer at the boundary downgradient from Pahute Mesa, the estimated human health risk would be 1E-01 within 30 years. The contaminant of primary near-term concern is tritium. Currently, the nearest residence is 18 km southeast of Pahute Mesa sources. The associated risk at this location is 1E-04. For off-site public health and safety, the groundwater pathway is the primary concern (source hazard factor [SHF] is significant, pathway factor [PF] is potential, receptor factor [RF] is potential). The relative ranking for the off-site public is high.

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
Drum	Industrial Sites	225					N/A	NTS
Drum	Industrial Sites	225					N/A	NTS
Drums; Buckets	Industrial Sites	225					N/A	NTS
Drum	Industrial Sites	225					N/A	NTS
Batteries (2)	Industrial Sites	225					N/A	NTS
Drums (5)	Industrial Sites	225					N/A	NTS
Area 23 Hazardous Waste Trenches	Industrial Sites	225					N/A	NTS
Explosive Disposal Site	Industrial Sites	225					N/A	NTS
Jr. Hot Cell	Decontamination and Decommissioning Facilities	225					N/A	NTS
U-3fi Waste Disposal Unit	Industrial Sites	225	DNCL				N/A	NTS
AREA 9 LANDFILL	Nevada Remedial Actions	225	ASPP	H	SO	W	R95B0001	NTS
HIGH EXPLOSIVE DISPOSAL AREA	Nevada Remedial Actions	225	ASPP	H	SO	W	R95B0001	NTS
NEDS SITE (NON-VIOLENT EXP DESTRUCT SYS)	Nevada Remedial Actions	225	ASPP	H	SO	W	R95B0001	NTS
Bomblet Target Areas	DOE/Industrial	225	ASPP	H	SO	W	R95B0001	NTS
Buried Artillery Round	DOE/Industrial	225	ASPP	H	SO	W	R95B0001	NTS
Buried Artillery Round	DOE/Industrial	225	ASPP	H	SO	W	R95B0001	NTS
Buried Rocket	DOE/Industrial	225	ASPP	H	SO	W	R95B0001	NTS
ANTELOPE LAKE	Nevada Remedial Actions	225	ASPP	H	SW	W	R95B0001	NTS
Ordnance Disposal Pit	DOE/Industrial	225	DSPP	H	SO	W	R95B0001	NTS
Depleted Uranium Artillery Round	DOE/Industrial	225	DSPP	H	SO	W	R95B0001	NTS
Depleted Uranium Artillery Round	DOE/Industrial	225	DSPP	H	SO	W	R95B0001	NTS
WWII Ordnance Site	DOE/Industrial	225	AMPP	M	SO	P	R95B0001	NTS
WWII Ordnance Site	DOE/Industrial	225	AMPP	M	SO	P	R95B0001	NTS
WWII Ordnance Site	DOE/Industrial	225	AMPP	M	SO	P	R95B0001	NTS
Double Tracks Rad Safe Area	DOE/Soils	225	AMPP	M	SO	W	R95B0001	NTS
Double Tracks Rad Safe Area	DOE/Soils	225	AMPP	M	SO	W	R95B0001	NTS
AREA 3 LANDFILLS	Nevada Remedial Actions	225	AMPP	M	SO	W	R95B0001	NTS
AREA 3 UNDERGROUND DIESEL TANK	Nevada Remedial Actions	225	AMPP	M	SO	W	R95B0001	NTS
Waste Trenches	DOE/Industrial	225	AMPP	M	SO	W	R95B0001	NTS
Lead Contamination, Soil Contam.	DOE/Industrial	225	AMPP	M	SO	W	R95B0001	NTS
Davis Gun Penetrator Test	DOE/Industrial	225	AMPP	M	SO	W	R95B0001	NTS
Debris Mound	DOE/Industrial	225	AMPP	M	SO	W	R95B0001	NTS
Disposal Trench	DOE/Industrial	225	AMPP	M	SO	W	R95B0001	NTS
Disposal Trench	DOE/Industrial	225	AMPP	M	SO	W	R95B0001	NTS
Roller Coaster Rad Safe Area	DOE/Industrial	225	AMPP	M	SO	W	R95B0001	NTS
Rocket Propellant Burn Area	DOE/Industrial	225	AMPP	M	SO	W	R95B0001	NTS
Depleted Uranium Impact Site	DOE/Industrial	225	AMPP	M	SO	W	R95B0001	NTS
Metal Particle Dispersion Test	DOE/Industrial	225	AMPP	M	SO	W	R95B0001	NTS
Joint Test Assembly DU Sites	DOE/Industrial	225	AMPP	M	SO	W	R95B0001	NTS
Depleted Uranium Site	DOE/Industrial	225	AMPP	M	SO	W	R95B0001	NTS
Septic Sludge Disposal Pit	DOE/Industrial	225	AMPP	M	SO	W	R95B0001	NTS
Septic Sludge Disposal Pit	DOE/Industrial	225	AMPP	M	SO	W	R95B0001	NTS
Ordnance Disposal Pit	DOE/Industrial	225	AMPP	M	SO	W	R95B0001	NTS
WASTE OIL SUMPS, BLDG 360	Nevada Remedial Actions	225	DMPP	M	SO	W	R95B0001	NTS
Pu Contaminated Soil	DOE/Soils	225	DSCP	M	SO	P	R95D0002	NTS
Pu Contaminated Soil	DOE/Soils	225	DSCP	M	SO	P	R95D0002	NTS
Pu Contaminated Soil	DOE/Soils	225	DSCP	M	SO	P	R95D0002	NTS
Test Cell A Bunker	Decontamination and Decommissioning Facilities	225	AMCL	L	FB	W	R95D0006	NTS
R-MAD Facility	Decontamination and Decommissioning Facilities	225	AMCL	L	FB	W	R95D0006	NTS
EMAD Facility	Decontamination and Decommissioning Facilities	225	AMCL	L	FB	W	R95D0006	NTS
Test Cell A Facility	Decontamination and Decommissioning Facilities	225	AMCL	L	FB	W	R95D0006	NTS
Test Cell C Facility	Decontamination and Decommissioning Facilities	225	AMCL	L	FB	W	R95D0006	NTS
Pluto Waste Holding Area	Decontamination and Decommissioning Facilities	225	AMCL	L	FB	W	R95D0006	NTS
Pluto Disassembly Facility	Decontamination and Decommissioning Facilities	225	AMCL	L	FB	W	R95D0006	NTS
Super Kukla Reactor Bldg /High Bay	Decontamination and Decommissioning Facilities	225	AMCL	L	FB	W	R95D0006	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Waste Dump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Shaker Plant	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Waste Disposal Hole	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums; Gas Can	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS



Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
Cellar & Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cellar & Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cellar & Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cellar & Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cellar	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cellar & Tanks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cond Release Storage Yd - North	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cond Release Storage Yd - South	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Wastewater Pit (Photo Lab)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
U-2gh Drill Site Release	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Stained Dirt on Concrete	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Epoxy Tar Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Epoxy Tar Spills	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Material Dump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Material Dump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cement Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Can in Mud Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
D-38 Storage Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Water Tank, Tanks (5 small)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank, Diesel	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank, Waste Oil	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank, Gas	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tanks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Holding Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Leachfield	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Landfill Cell A3-1	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Landfill Cell A3-2	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Landfill Cell A3-3	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Landfill Cell A3-4	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Landfill Cell A3-5	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Landfill Cell A3-6	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Landfill Cell A3-7	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Landfill Cell A3-8	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Waste Dump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Debris; Dirt Berm	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Dump Site	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mud Pit spill over	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mud Dump Trenches	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mud Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mud Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mud Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Disposal Site	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mud Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Steam Pipes	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Power Substation	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Power Substation	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Switch Box	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Switch Box	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Switch Box	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Construction Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Waste Consolidation Site 3B	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Core Storage Holes	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Decon Pad and Sump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Inj. Wells/Sumps, Oil Stains	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Injection Wells	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Waste Disposal /CN-C11	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Injection Wells (2) - Ud3a/Ud3b	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Injection Well	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Bucket	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Bucket	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum; Bucket	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums; Bucket; Can	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Plastic Bottle	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Can	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum; Bucket	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum; Containers	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Bucket; Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Can	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Buckets; Cans; Debris	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum; Batteries	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum/Bucket	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Bucket; Spill; Debris	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum; Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Buckets (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum/Cans	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Can	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums; Buckets	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums; Buckets	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Waste Dump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Waste Dump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contamination Burial Site	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Bucket; Yellow Tagged Bags	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries/Bucket/Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery; Buckets; Can	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery Pack	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery (Broken)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spills	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spills	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mud Plant AST Diesel Release	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Door	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
Lead Brick; 3 Tubes Silicon	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Methyl Alcohol Bottle	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Acid Box; Chemicals	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Bunker	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Burn Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Conditional Release Storage Yard	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Chromium Contamination Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Steam Jenny Discharge	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spills	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Cylinders	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Vacuum Truck Flushing Pond	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Area 3 Mud Plant Pond	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Photo Shop UDP, Drains	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Heavy Duty Shop UDP, Sumps	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
UPS Building UDP	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Fire Training Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sandia Service Yard	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Tar Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Can	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spills (Contaminated Soil Mounds)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill / Dump (Unknown Material)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drain and Injection Well	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Dirt Berm	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Dirt Berm / Shaft	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Cylinder	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Bottle Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cement Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tanks (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Sampling Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Sampling Tanks (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
RAD Contaminated Dumping Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Waste Disposal Site	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Transformer	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums; Piping	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum; 2 Batteries	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Buckets; Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries; Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead on Instrument Bunker	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
U-4t Postshot Hole Release	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Berms	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Dump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil (Quart)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Trench; Berms	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tanks (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Decon Pad/Sump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS



Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
Decon Pad Septic Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Leachfield	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Decon Pad	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Decon Pad (Old)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Decon Laundry	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cement Wash Down	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Generator Shop	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Radiation Counting Shield (Lead)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sanitary Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sanitary Landfill; Burn Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Construction Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Haz Waste Accum. Area -Sump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Hazardous Waste Accum. Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cement Mud Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Concrete Wastewater Catch	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cable Pile; Powder Piles (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums; Oil Waste; Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
20-inch Cased Hole; Bldg 6-388	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
U-6da - U-6df Disposal Holes	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (4)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (8)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Bucket	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Plastic Can	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Trash Container	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum; Debris	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (7)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Paint Buckets	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (5)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Can	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Plastic Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Leachfield Drain Pipe	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drain Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Hot Park	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (5)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
CP-1 Heating Oil Release	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
UST Release	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Petroleum Release Site	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Waste Oil Release	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
Lead Sheets; Brick	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Transformer	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cond. Release Storage Yd - East	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cond. Release Storage Yd - West	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cutting Fluid Discharge	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Tony Event Test Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Bottles	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tanks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tanks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Dump Site	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Waste Dump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Buckets	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Buckets	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Bucket	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Buckets	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Radioactive Contaminated Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Waste Dump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery; Debris	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks (4)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Sheet	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Cylinder	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Bottle	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Miscellaneous Debris	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Discolored Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Compressed Bottle; Tar Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Sampling Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Sampling Tanks (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Vehicle Gas Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mud Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mud Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Injection Well	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Buckets (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums; Buckets	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS





Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
Underground Storage Tanks (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sewage Lagoons (6)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Muckpile	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Radioactive Material	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Muckpile	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Muckpile	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Muckpile	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Waste Dump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Change House Boiler	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Transformer	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Transformer	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Transformer	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sanitary Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Injection Well	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Bucket	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (6), Canister	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Ponds	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Radioactive Waste Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (4)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Battery	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (4)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (12)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (Dry Cell)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil stains (2); Container	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
UST 12-16-2 Waste Oil Release	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
UST Oil Line Release	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Shot	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks; Sheets	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Brick	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Radioactive Contamination Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Radioactive Contamination Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Tunnel Portal	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Tunnel Portal	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Tunnel Portal	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Chemicals Facility	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Dirt Berm	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
ER12-1 Well Site Release	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Bottled Gas Storage	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Cylinder	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Waste Water Pond	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Stained Dirt	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Fuel Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
Gas Cylinder	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Epoxy Tar Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Asbestos Pipe	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mud Dump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cement Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Cylinder	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Storage Flatcar	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Asbestos Pipe	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Transformer with PCBs	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Transformer	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
LTU-6 Test Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tanks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cement Cistern	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Irrigation Piping	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Septic Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Leachfield	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cement Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Transformer	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Transformer	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Transformer	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Chemical Storage Drums (4)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Waste Disposal Site	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (8)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums; Buckets	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (10)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum, gas can	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (12)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (5)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Fuel Cans	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Cans	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Can	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Misc. Fuel Cans (Gas & Oil)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Fuel Can	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Waste Well	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Rad. Contaminated sump, piping	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery; Bucket	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Sheet; Stain	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mine Portals	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS





Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
Batteries (4)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (4)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spills	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spill	Oil Spill	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spills (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Ingot	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Brick	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Concrete Hardener (5 bags)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Bag of Battery Fluid	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Fuel Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Fuel Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
U-19bf Drill Site Release	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
U-19bk Drill Site Release	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
U-19bh Drill Site Release	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Pile; Unknown Material	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Cylinder	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Cylinder	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Cylinder	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Pile; Unknown Material	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Waste Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cement Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cement Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Bottles	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cement Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Pile; Unknown Material	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tanks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Leachfield; Septic Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mudpits (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mudpits (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mud Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mud Plant Disposal Site	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Mudpits	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Transformers (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sanitary Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Waste Disposal Site	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Injection Well	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Injection Well	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Injection Well	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Injection Well	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Injection Well	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum; Buckets (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (4) ; Buckets	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Drums (2)	225	ANCL	L	SO	W	R95D0004	NTS
Drum, Bucket	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (4)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (5)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (11)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Postshot Cellar	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cellar	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Postshot Cellar	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Postshot Cellar	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cellar	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (4)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (4)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spills (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spills	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spills	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spills	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Pellets	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Pellets	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cellar & Mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cellar	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Steel pipe/old mudpit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
PVC Pipes	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drilling Mud	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Cylinder	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Tar Residue	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Buried UST Piping	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sewage Lagoon	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sewage Lagoons	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Trash Dump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Trash Dump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Disturbed Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Maintenance/ Disposal Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Buckets (7)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (4)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Fuel Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Strainer Box	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Water Fill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Ammunition Storage Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Radioactive Waste Dump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Fuel Storage Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Soil Staining; Oil Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Area 23 Large AST Farm	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Fuel Tanks (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sewage Lagoons	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Leach Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Boiler (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Hazardous Waste Storage Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Hazardous Chemical Storage	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Hazardous Chemical Storage	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Injection Well	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Injection Well	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Quonset Hut 800 Pesticide Release	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Cans - Epoxy Leak	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Stains	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Soil Staining	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Soil Staining	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Asphalt Oil Spill /Tar Release	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Brick	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Transformer	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Transformer	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Fuel Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Former Mercury Fire Training Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Burn Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Salvage Yard	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tanks (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tanks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Electrical Vault	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tanks (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Acid Waste Leach Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Vehicle Washdown Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Vehicle Washdown Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Vehicle Washdown Station	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Decontamination Pad	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Train Decontamination Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Construction Waste Dump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Boiler	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sanitary Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sanitary Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sanitary Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Construction Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Construction Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Construction Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks; Paraffin	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lab Drain Dry Well	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (35)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum of Steel Balls	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (16)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (5)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (7)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Bucket	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Radioactive Contamination Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Radioactive Storage RR Cars	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Waste Dump 2	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Radioactively Contaminated Crates	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Radioactive Contaminated Debris	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Decontamination Facility	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Radioactively Contaminated Debris	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Waste Dump 1	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Materials	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Materials	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Tanks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
ETL - Lab Radioactive Contamination	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Trailer Tank RAD	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Waste Dump 4	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Wash	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Radioactive Material Storage	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Radioactive Material Storage	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Nuclear Furnace Piping	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (12)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (6)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (56 Locomotive)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (8)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (31)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (26)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (6)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Batteries (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Vacuum Pump Oil Recovery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spills	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spills	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spills	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spills	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oil Spills	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks (24)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks (24)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks (175)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks (12)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks (172)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks (4)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks (30)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks (339)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Shot	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks (10)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Shot	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks and Sheets	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks and Sheets	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Shot	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
Lead Bricks (25)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks (52)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Sheets (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks/Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
PCB Drums (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Miscellaneous Chemicals	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Miscellaneous Chemicals	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Miscellaneous Chemicals	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Miscellaneous Chemicals	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Miscellaneous Chemicals	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Paint Can	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Ethylene glycol	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Miscellaneous Chemicals	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Miscellaneous Chemicals	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Chemicals (paint and oil)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Well Head	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
NRDS Contaminated Bunker	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
NRDS Contaminated Bunker	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Motor Dr/Gr Assembly (Bunker)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Motor Dr/Gr Assembly (Bunker)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Motor Dr/Gr Assembly (Bunker)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Fuel Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Compressed Gas Bottle (Oxygen)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Compressed Gas Bottle	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Cylinders (3)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Asbestos Wrapped Pipes	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Asbestos Wrapped Pipes	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Asbestos Wrapped Pipes	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Bottles (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Bottle	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Bottles (4)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Acetylene Bottles (27)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Oxygen Bottles (14)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Fly Ash Storage	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Cylinders (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Bottles (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Highway flares (fuses)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
USW G3	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Bottles (4)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Storage Area	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sump or Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Filter Tank (RAD)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Filter Tank (RAD)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tanks (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Underground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sewage Lagoon	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Washdown Station	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Waste Dump	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Waste Dump 2	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Waste Dump 1	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Liquids Spreader	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Bricks (25)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Contaminated Waste Bunker	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Radioactively Contaminated Filters	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Smoke Pots (4)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Smoke Pots (4)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sanitary Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drums (5)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum; Fuel can	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Petroleum Release -Site Maintenance	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Lead Sheets, Lead Bricks	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Aboveground Storage Tank	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Fuel Spill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
Sanitary/Construction Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Drum	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Battery	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Burn Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Gas Cylinders (2)	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Sanitary Landfill	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
Landfill/Burn Pit	Industrial Sites	225	ANCL	L	SO	W	R95D0004	NTS
U-2bu Subsidence Crater	Industrial Sites	225	ANCL	L	SO	W	R96A0003	NTS
AREA 3 SEPTIC TANKS AND LEACH FIELDS	Nevada Remedial Actions	225	ANPP	L	SO	W	R95B0001	NTS
FIRE TRAINING AREA	Nevada Remedial Actions	225	ANPP	L	SO	W	R95B0001	NTS
HEAVY DUTY SHOP FLOOR DRAINS	Nevada Remedial Actions	225	ANPP	L	SO	W	R95B0001	NTS
PHOTO SHOP FRENCH DRAINS	Nevada Remedial Actions	225	ANPP	L	SO	W	R95B0001	NTS
Battery Dump Site	DOE/Industrial	225	ANPP	L	SO	W	R95B0001	NTS
Station 44 Burn Area	DOE/Industrial	225	ANPP	L	SO	W	R95B0001	NTS
Cactus Spring Ranch, Soil Contam.	DOE/Industrial	225	ANPP	L	SO	W	R95B0001	NTS
Atmospheric Test Site - High Alt.	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site T-1 (4 events)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Contaminated Areas (2)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Contaminated Berm	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site - Whitney	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site T-2A	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site T-2B	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site T-9B	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site T-2 (2 events)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site - Turk	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
T-3 Contamination Area (3 events)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
T-3A Contamination Area	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
T-3B Contamination Area	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
T-3S Contamination Area	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
T-3T Contamination Area	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
T-3V Contamination Area	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
S-3G Contamination Area	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
S-3H Contamination Area	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
S-3I Contamination Area	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
T-3U Contamination Area	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmosph. Test Site T-4 (4 events)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site T4-a	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
GMX Alpha Contaminated Area	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Tests (6) - BFa Site	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site - Able	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site (5 events)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site - Hamilton	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site - Priscilla	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site - Small Boy	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmosph. Test Site T-7C (2 events)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site - T7-1 Tower	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmosph. Test Site-T7-1a (2 events)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site T7-5a	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site - Dog (T-S)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site - Baker (T-S)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site-Charlie (T-S)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site - Dixie	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site-Dog (Buster)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site-Charlie (Bus)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site - Baker (Bus)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site - Ruth	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmosph. Test Site T7-4 (2 events)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmosph. Test Site B7-b (13 events)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site - Climax	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site T-8B	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site T-2C	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site T-8a	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site T-8C	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site S-9F	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site T9-C	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Mound of Contaminated Soil	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site T-95	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS

Table 4-1  
 Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
Atmospheric Test Site S-9G	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site S-9E	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site T-9D	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site - Rushmore	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmosph.Test Site B-9A (7 events)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Atmospheric Test Site - M-10	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
U-10h Crater (Sedan)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Ess Crater Event Site	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Uncle Crater Event Site	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Contaminated Waste Dump 1	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Contaminated Waste Dump 2	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Radioactively Contaminated Area A	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Radioactively Contaminated Area B	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Radioactively Contaminated Area C	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Radioactively Contaminated Area D	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Danny Boy Contamination Area	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Sulky Contamination Area	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
U-18j-2 Crater (Johnnie Boy)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Little Feller I Surface Event	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Little Feller II Surface Event	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
U-18a Crater (Danny Boy)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
Contamination Area	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
U-20L Crater (Cabriolet)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
U-20k Crater (Palanquin)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
U-20u Crater (Schooner)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
U-30a, b, c, d, e Craters (Buggy)	Soils Media Operable Unit	225	ASCL	L	SO	W	R95D0002	NTS
U-1a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-1c Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-1d Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2aa Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ab Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ad Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2af Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ag Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ah Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ai Cavities (2)	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ak Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2aL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2am Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2an Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ao Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ap Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ar Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2as Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2at Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2au Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2av Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2aw Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ax Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ay-1 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ay-2 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-2ay-3 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2az-1 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2az-2 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2az-3 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2b Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bc Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bd Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2be Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bf Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bh Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bi Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bm Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bn Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bo-1 Cavities (2)	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bp-1 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bp-2 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bq-1 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bq-2 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2br Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bs Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bu Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bv Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bw Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bx Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2by Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2bz Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2c Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ca Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2cc Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2cd Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ce Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2cg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ch Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ci Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2cj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ck Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2cm Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2cn Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2co Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2cp Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-2cq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2cr Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2cs Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ct Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2cu Cavities (2)	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2db Cavities (3)	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dc-1 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dc-2 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dc-3 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dc-4 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dc-5 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dc-6 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dd-2 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dd-3 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2de Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2df Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dh-2 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dh-3 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2di Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dj Cavities (3)	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dk Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dl Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dm Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dn Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2do Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dp Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dr Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ds Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dt Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2du Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dv Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dw Cavities (2)	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dy Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2dz Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2e Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ea Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2eb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ef Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2eg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2eh Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ei Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-2ek Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2eL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2em Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2en Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2eo Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ep Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2eq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2er Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2es Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2et Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2eu Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ev Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ew Cavities (2)	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ex Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ey Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ey Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2f Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2fa Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2fb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2fc Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2fd Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2fe Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ff Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2g Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ga-S Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2gb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2ge Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2gf Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2gg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2gh Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2h Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2j Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2L Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2m Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2n Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2p Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2q Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2r Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2t Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2u Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2v Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2x Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2y Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
(Page 64 of 107)

RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-3aa Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ab Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ac Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ad Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ae Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3af Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ag Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ah Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ai Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3aj-S Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ak Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3aL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3am-S Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3an Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ao Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ap Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3aq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ar Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3as Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3at Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3au-S Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3av Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3aw Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ax Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ay Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3az Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ba Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bc Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bd Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3be Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bf Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bh Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bk Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bm Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bn Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bo Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bp Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3br Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
(Page 67 of 107)

RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-3bs Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bt Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bu Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bv Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bw Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bx Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3by Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3bz Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3cb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3cd Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3cf Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3cg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ch Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3cj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3cn Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3co Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3cp Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3cr Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ct Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3cu Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3cv Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3cx Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3cy Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3cz Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3d Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3da-S Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3db Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dd Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dd-1 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dd-4 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3de Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3df Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dh Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3di Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dk Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dm Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dn Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3do Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dp Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dr Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
(Page 69 of 107)

RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-3ds Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dt Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3du Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dw Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dx Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dy Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3dz Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3e Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3eb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ec Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ed Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ee Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hp Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ef Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3eh Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ei Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ej Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ek Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3eL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3em Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3en Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3eo Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ep Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3eq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3er Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3es Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3et Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3eu Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ev-2s Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ew Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ex Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ey Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ez Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fa Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fc Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fd Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fe Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ff Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fh Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fk Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fm Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-3fn Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fr Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fs Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fu Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fv Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fw Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fx Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fy Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3fz Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ga Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gc Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gd Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ge Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gf Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gh Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gi Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gk Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gm Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gn Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3go Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gr Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gs Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gt Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gu Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gv Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gx Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3gz Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ha Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hc Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hd Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3he Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hf Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hh Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hi-A Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hi-B Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
(Page 74 of 107)

RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-3hj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hk-a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hk-b Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hk-d Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hk-c Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hk-e Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hk-f Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ho Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hm Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hn Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hr Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hs Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ht Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hu Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hv Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hx Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hy Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3hz Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3j Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ja Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jc Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jd Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3je Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jf Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jh Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ji Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jk Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jm Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jn Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jp Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jr Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3js Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jt Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ju Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jv Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jw Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
(Page 77 of 107)

RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-3jx Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3jy Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3k Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3kb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3kc Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3kd Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3kf Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3kg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ki Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3kj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3kk Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3km Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3kn Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3kp Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3kq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3kr Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ks Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3kt Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ku Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3kv Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3kw Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3kx Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3ky Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3kz Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3La Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Lb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Lc Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Ld Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Lf Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Lg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Lh Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Li Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Lj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Lk Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3LL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Lm Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Lo Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Lp Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Lr Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Ls Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Lt Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Lu Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Lv Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
(Page 79 of 107)

RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-3Lw Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3Lz Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3m Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3mc Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3me Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3mf Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3mg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3mh Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3mk Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3mL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3mn Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3mt Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3n Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3p Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3q Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-3r Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4aa Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4ab Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4ac Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4af Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4ah Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4ai Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4aj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4ak Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4aL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4am Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4an Cavities (3)	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4ar Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4as Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4at Cavities (3)	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4au Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4av Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4b Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4c Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4d Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4e Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4f Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4g Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4h Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4i Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4j Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4L Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
(Page 82 of 107)

RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-4n Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4o Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4p Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4q Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4r Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4s Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4t Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-4u Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-5a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-5b Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-5e Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-5i Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-5k Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-6a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-6d Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-6e Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-6g Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-6h Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-6i Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7aa Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7ab Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7ac Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7ad Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7ae Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7af Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7ag Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7ah Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7ai Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7aj-S Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7ak Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7aL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7am Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7an Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7ao Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7ap Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7aq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7at Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7au Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7av Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7ax Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7ay Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7b Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
(Page 84 of 107)

RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-7ba Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7bd Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7be Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7bg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7bh Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7bi Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7bk Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7bL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7bm Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7bo Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7bp Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7br Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7bs Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7bu Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7bv Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7by Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7ca Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7cb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7e Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7f Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7g Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7h Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7j Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7k Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7i Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7m Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7n Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7o Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7p Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7r Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7s Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7t Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7u Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7v Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7w Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7x Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7y Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-7z Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-8a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-8b Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-8c Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-8e Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-8j Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
(Page 87 of 107)

RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-8k Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-8L Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-8m Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-8n Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-8d Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS T-28 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS U-24 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS V-24 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS V-26 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS V-27 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS W-21 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS X-20 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS X-23 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS X-24 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS X-27 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS X-28 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS X-29 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS Y-27 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS Y-30 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS Z-21 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS Z-24 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS Z-25 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS Z-26 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS Z-27 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9 ITS-XY-31 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9I-W-22 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9I-W-24.5 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9aa Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ab Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ac Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ad Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ae Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9af Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ah Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ai Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9aj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ak 1 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ak Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9aL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ao Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ap Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9aq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
(Page 89 of 107)

RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-9ar Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9at Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9au Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9av Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9aw Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ax Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ay Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9az Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9b Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ba Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bc Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bd Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9be Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bf Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bh Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bi-1 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bi-2 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bk Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bm Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bn Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bo Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bp Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9br Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bs Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bt Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bu Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bv Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bx Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9by Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9bz Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9c Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9cb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9cc Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ce Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9cf Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9cg Cavities (2)	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ch Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ci Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9cj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9ck Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
(Page 92 of 107)

RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-9cL Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9cm Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9cn Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9cp Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9cq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9cr Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9cs Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9cv Cavities (3)	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9cw Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9d Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9e Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9f Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9g Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9h Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9i Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9i-S-25 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9i-yz-26 Cavities (2)	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9j Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9k Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9L Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9m Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9n Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9p Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9q Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9r Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9u Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9v Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9w Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9w-1 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9x Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9y Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-9z Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-2a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10aa Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10ab Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10ad Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10af Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10ag Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10ah Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10ai Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10aj-A Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10aj-B Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
(Page 95 of 107)

RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-10aj-C Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10aj-D Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10aj-F Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10ak Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10am-1 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10am-2 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10am-3 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10am-4 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10an Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10ap-1 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10ap-3 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10aq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10ar Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10as Cavities (3)	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10at Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10av Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10aw Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10ax Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10ay Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10b Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10ba Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10bb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10bc Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10bd Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10be Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10bf Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10bg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10bh Cavities (3)	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10c Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10ca Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10cb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10cc Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10ds Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10ds-1 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10e Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10f Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10g Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10i Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10k Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10m Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10n Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10p Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10q Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
(Page 97 of 107)

RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-10r Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10s Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10t Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10u Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10w Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10x Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10y Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-10z Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-11b Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-11c Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-11e Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-11f Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-11g Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12b Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12b.02 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12b.04 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12b.08 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12b.09 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12b.10 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12c Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12c.03 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12d-1 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12d.02 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12e.02 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12e.03a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12e.05 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12e.10 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12e.11 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12e.12 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12e.14 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12e.18 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12f.01 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12d Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12g.01 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12g.06 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12g.07 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12g.09 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12g.10 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12j.01 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12k.01 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.02 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.04 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.05 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
(Page 100 of 107)

RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-12n.06 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.07 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.08 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.09 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12e.20 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.10 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.10a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.11 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.12 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.15 Cavities (2)	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.17 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.18 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.19 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.20 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.21 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.22 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.23 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12n.24 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12p.02 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12p.03 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12p.04 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12p.05 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12q Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12r Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12t.01 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12t.02 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12t.03 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12t.04 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12t.08 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-12t.09 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-15a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-15.01 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-15e Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-16a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-16a.02 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-16a.03 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-16a.04 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-16a.05 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-16a.06 Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-18d Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19aa Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19ab Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19ac Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
(Page 102 of 107)

RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-19ad Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19ae Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19af Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19ai Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19aj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19ak Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19an Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19aq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19ar Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19as Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19au Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19ax Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19ay Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19az Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19b Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19ba Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19bg Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19c Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19d Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19e Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19f Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19g Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19i Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19L Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19n Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19p Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19q Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19t Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19u Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19v Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19x Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19ys Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-19zs Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20a Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20aa Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20ab Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20ac Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20ad Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20ae Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20af Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20ag Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20ah Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS

Table 4-1  
Relative Ranking of Release Sites at the Nevada Test Site  
(Page 105 of 107)

RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
U-20ai Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20aj Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20ak Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20al Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20am Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20an Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20ao Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20ap Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20aq Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20ar Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20as Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20at Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20av Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20aw Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20ay Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20az Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20b Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20bb Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20bc Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20bd Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20be Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20bf Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20c Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20d Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20e Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20f Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20g Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20h Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20i Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20m Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20n Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20p Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20t Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20v Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20y Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
U-20z Cavity	Underground Test Area Operable Unit	225	ASCL	L	GW	W	R95D0003	NTS
Area 6 Decon Pond (RCRA)	Industrial Sites	225	BMPL	L	SW	W	R96A0001	NTS
Steam Cleaning Effluent Ponds	Industrial Sites	225	DMCL	L	SW	W	R96A0001	NTS
EPA Farm Laboratory Building	Decontamination and Decommissioning Facilities	225	DMCL	L	FB	W	R95D0006	NTS
Transformer	Industrial Sites	225	DNCL	L	SO	W	R95D0004	NTS
Transformers (s)	Industrial Sites	225	DNCL	L	SO	W	R95D0004	NTS
Transformers	Industrial Sites	225	DNCL	L	SO	W	R95D0004	NTS
Electrical Park/Transformers; Switches	Industrial Sites	225	DNCL	L	SO	W	R95D0004	NTS
Bitcutter/Postshot Inj. Wells (3)	Industrial Sites	225	DNCL	L	SO	W	R95D0004	NTS
Area 3 Change House Septic System	Industrial Sites	225	DNCL	L	SO	W	R95D0004	NTS
Septic Waste System	Industrial Sites	225	DNCL	L	SO	W	R95D0004	NTS



Table 4-1  
 Relative Ranking of Release Sites at the Nevada Test Site  
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RelSite_FacName	RDS_Title	97ADS_Dat1	Rank_Code	Rank	Media	Recept	New_RDS	Facility Code
HELICOPTER PAD & STORAGE AREA	DOE/Offsites	240					N/A	NVO
SITE 1-F - EAST SUBSTATION	DOE/Offsites	240					N/A	NVO
Sewage Lagoon(s)	DOE/Offsites	240					N/A	NVO

Site personnel exposure from on-site groundwater (outside of activity implementation) is not likely; however, the potential exists for inadvertent radiation exposure during well-drilling activities. Tritium levels are 100's of millions of pCi/[?]. For both of the most applicable pathways, the groundwater and subsurface soil/media pathways, the relative ranking is medium (SHF=significant, PF=potential, RF=limited).

The UGTA is a high-compliance priority. Noncompliance in this area could impact other DOE/NV environmental restoration activities. If the UGTA subproject is not implemented, the potential exists for increased and more aggressive oversight and enforcement by the State of Nevada in many other areas of the site, impacting existing site missions. Also, UGTA has significant potential impact on the Yucca Mountain Project decision/mission.

Delaying implementation will result in further spread of groundwater contamination and subsequent larger cost to monitor, investigate, and remediate.

Although ecological risk is relatively low, impacts to the environmental resources (groundwater and subsurface soils) are wide-spread and long-term and are a particular concern of the State of Nevada.

The Shoshone tribe has claims on the resources. Water resources are significantly valued by all in the state.

#### **4.2 Soils**

Current DOE/NV-EM policy regarding future land use scenarios does include the realistic potential for commercial access to up to 70 percent of the current NTS land for industrial purposes. Any industrial tenants on this NTS property would require soils remediation to levels acceptable for commercial uses. Commercial uses involve disturbance of native soils of varying magnitudes. Such a possibility would require remediation of contaminated soils to lower levels than would be necessary if long term (100s of years) institutional control were guaranteed. Such long term restrictions directly conflict with current DOE/NV-EM policy regarding future land use scenarios. Existing plans to develop non-DOE industry involve access to large portions of NTS impacted by past above-ground nuclear testing.

The restoration of many of the soils sites has a direct impact on the current DOE mission at NTS of establishing other industries on NTS property. Additionally, missions of the Nellis Air Force Range are directly impacted by soils sites remediation.

In terms of public safety and health, moderate to low-level exposure is somewhat likely within the next ten years due to the accessibility of some sites with contaminated surface soils. (The Double Tracks site will be completed in FY 1996, making public access low if at all.) Contamination plumes both on- and off-site may not be well marked. Current institutional controls minimize public access to most on-site surface soil contamination. Overall relative ranking for off-site public access is generally medium (soil media: SHF=moderate, PF=evident, RF=limited).

Risks to on-site personnel also result from the fact that contaminated areas are not all identified or marked. Some recent exposure incidents have occurred due to this situation. Inhalation of dust resuspension is a primary concern. Overall relative ranking for site personnel is generally medium (soil media: SHF=moderate, PF=potential, RF=potential).

This area has long-term and widespread contamination. Some "hot spots" have been identified. To date, there has been little evidence of detrimental impact to the ecology. Remediation activities, such as shallow excavation over a large area of the desert, may have significant negative impacts on the ecology.

Airborne dust/soil contamination resulting from surface nuclear tests is a very sensitive issue with site stakeholders. Many lawsuits and court cases have occurred in the past, while some are still pending.

#### **4.3 Industrial Sites**

A substantial portion of the Industrial Sites are located in the 70 percent of the NTS which may be returned to non-DOE organizations for non-nuclear industrial operations. Because of this potential, complete remediation of these Industrial Sites is of paramount importance. The relative ranking for the public for these sites is moderate (soil media: SHF-moderate, PF=potential, RF=potential).

The NTS industrial sites generally pose very little risk to the off-site public because there is no identifiable exposure pathway. The relative ranking for the public for these sites is generally low (soil media: SHF=moderate, PF=confined, RF=limited).

The density of contamination locations increases the likelihood of exposure to site workers; however, the severity of safety and health impact from any such exposures is considered low.

The relative ranking for site personnel for these sites is generally medium (soil media: SHF=moderate, PF=potential, RF=potential).

This subproject is a high-compliance priority. Many activities are RCRA-mandated including RCRA closures, post-closure care, and corrective actions. Failure to comply will result in immediate and costly enforcement actions. The Defense Nuclear Agency (DNA) has identified water leakage from some closed tunnels, impacting DNA's compliance with the Clean Water Act. More aggressive oversight and enforcement from the State of Nevada could negatively impact existing site missions and the Yucca Mountain mission. Failure to address these sites would result in significantly restricted future use of the NTS.

#### **4.4 TTR Industrial Sites**

The TTR industrial sites generally pose moderate risk due to the fact that TTR is not a fenced facility and the public has been known to use portions of it for unauthorized recreational use. Such unrestricted access to sites which are characterized by unexploded ordnance drives the public risk associated with TTR sites. This risk is compounded by the unknown nature of much of the TTR contamination. Numerous sites have not been characterized and one can only speculate levels and suites of contaminants. The relative ranking for the public for these sites is moderate (soil media: SHF=moderate, PF=confined, RF=identified).

The density of contamination locations increases the likelihood of exposure to site workers; TTR has increased risk to site personnel resulting from chance encounters with unexploded ordnance. Because of this safety hazard, the source hazard factor for these sites is adjusted upward to "significant." The relative ranking for site personnel for TTR sites is generally high (soil media: SHF=significant, PF=potential, RF=potential). The public has a negative perception and a concern about potential surface contamination and unexploded ordnance.

#### **4.5 Decontamination and Decommissioning**

The Decontamination and Decommissioning sites, because of access controls, pose very low risk to the off-site public. Compliance, being driven only by DOE Orders, is a medium priority issue for NTS sites. Addressing these sites early could prove cost-effective and contribute to site mortgage reduction, because EM is responsible for surveillance and maintenance, and the potential exists for future degradation of the structures if Decontamination & Decommissioning is not accomplished in a timely manner. Fuel pellets are scattered throughout the native surface soils at one Decontamination & Decommissioning facility, representing the most significant potential for environmental/ecological impact.

## 5.0 Environmental Restoration Strategy

This section reiterates and summarizes the major goals of the Nevada Environmental Restoration Project, describes key assumptions for implementing characterization and remediation activities, and explains the strategy for attaining these goals in an effective, efficient manner. It includes the strategy for remedy selection and performance, both within the context of regulatory and nonregulatory activities.

### 5.1 *Site Assumptions*

- DOE/NV will continue to be a DP landlord site.
- Project activities will be implemented as described in the Federal Facility Agreement and Consent Order.
- Project activities will be implemented in compliance with RCRA guidelines.
- Waste generated by project activities will be disposed at the Area 3 and Area 5 Radiation Waste Management Sites except hazardous waste, which will be disposed at an approved offsite commercial disposal facility.
- Disposal costs for the Area 3 and Area 5 disposal facilities are \$12.63 per cubic foot for FY 1996, \$17.63 per cubic foot for FY 1997 through FY 2021, and then \$68.00 per cubic foot through the outyears.
- The cost of commercial treatment and disposal will remain constant and commercial T/S/D facilities will continue to be used for some DOE waste (e.g., hazardous, sanitary).
- Future DOE/NV missions will be industrial in nature and focused in the southwest quadrant of the NTS.
- DOE/NV will continue to manage the land areas encompassed by the NTS and TTR.
- Cleanup activities will focus on return of surface sites for other industrial uses. Subsurface areas will remain under distributed control.
- Potential migration from underground test areas will be modeled to determine the nature and extent of contamination. The modeling will assist in determining appropriate management of the affected groundwaters.

Access to DOE land used for disposal of radioactive waste will remain restricted as long as necessary to ensure adequate protection of human health and the environment.

**5.11 Industrial Sites**

The FFACO with the state of Nevada establishes the methodology by which all site investigations and corrective actions will take place. In general, the strategy calls for sites to be grouped using various combinations of similarity of site "owner," functional category, location, and length of time required for corrective action. The groupings enable economies from commonality of work plans, approach, and logistics during assessment and remediation.

The Streamlined Approach for Environmental Restoration (SAFER) approach will be used when applicable and acceptable to the state.

Assessment will be performed/coordinated with consideration of the probable remedial method. Table 5-1 reflects the total volumes of Industrial Sites waste that will require treatment and/or disposal.

Table 5-1  
Estimated Industrial Site Waste

Site	Medium	Waste Type	Volume Cubic Meters
Industrial Sites	Debris	LLW	600
	Debris	SANI	350
	Groundwater	HAZ	270
	Liquid	HAZ	420
	Liquid	LLMW	230
	Liquid	LLW	10
	Soil	HAZ	76,980
	Soil	LLMW	50
	Soil	LLW	2,000

**5.1.2 Soils Sites**

It is assumed that in the immediate future the effort will be toward remedial actions, including interim actions designed to clean up the Double Tracks and Clean Slates 1, 2, and 3 sites. These remedial actions will be in accord with the FFACO. Because no cleanup standards exist for these sites, it is further assumed that a final clean-up level for plutonium will be negotiated near the 200 picocuries per gram level. It is further assumed that the cleanup, when warranted, will be excavation and on-site transportation to bulk disposal in an appropriate subsidence crater located within the Land Withdraw Zone(s). This is a critical assumption, as it should result in disposal

costs being reduced by at least an order of magnitude. The total volume of wastes generated as the result of the assessment and remedial activities is reflected in Table 5-2.

Table 5-2  
Estimated Soils Sites Waste

Site	Medium	Waste Type	Volume Cubic Meters
Soils Media	Soil	Low-level waste	1072000

Transportation of the soil to the NTS for disposal is proposed to be on public roads, where available, with disposal costs being as previously identified.

Most radiological assessment activities will involve *in situ* measurements using a wide array of instrumental approaches.

The first scheduled remediation is the Double Tracks site, which is scheduled for an interim removal action in FY 1996. At present it is assumed that the remedial actions will consist of simple excavation and transportation for disposal at the Nevada Test Site; however; it is possible that a volume reduction technology will be developed and incorporated in future remediation efforts.

### **5.1.3 Underground Test Areas**

Risk to public health and the environment from the testing activities at these sites is considered minor at this time. Some new wells will be installed near shot cavities in order to collect data about the near-field environment. It is assumed that for the foreseeable future, effort will be toward the modeling efforts and groundwater monitoring to bound the extent of contamination.

For the long-term, because no cost-effective, known technologies exist to extract contamination or to neutralize and stabilize the shot cavities, it is assumed that the sites will be characterized and the groundwater resource withdrawn from future use considerations, consistent with the FFACO.

The areas will be closed in place, assuming there is no threat to the environment or natural barrier failure, and monitoring is assumed for a duration of 30 years.

Table 5-3 reflects the total volume of Underground Test Area waste that will require treatment and/or disposal.

Table 5-3  
Estimated UGTA Waste

Site	Medium	Waste Type	Volume Cubic Meters
Underground Test Areas	Soil Sludge Groundwater	Low-level waste Low-level waste Low-level waste	115011907600
Projected Excluded Media Type	Basis and Reason for Exclusion	Type of Response	Comments
Underground Nuclear Waste in Shot Cavity	Assumption: No Feasible Remediation	Monitor	Additional Wells for Monitoring

#### 5.1.4 Decontamination and Decommissioning

Decontamination and Decommissioning of eight surplus facilities transferred from the U.S. Department of Energy, Nevada Operations Office Defense Programs to Environmental Management. All of the facilities except two were used for nuclear rocket, nuclear engine, nuclear furnace, and associated tests; one was used for radiological research on intake of radionuclides through the food chain, and the other evaluated the response of missile parts to radiation flux. The facilities include E-MAD, R-MAD, Pluto, Super Kukla,, Test Cell A, Test Cell C, EPA Farm, and Jr. Hot Cell. At present, there are no plans to transition any additional facilities from the U.S. Department of Energy, Nevada Operations Office Defense Programs to Environmental Management (Table 5-4).

Table 5-4  
Estimated Decontamination and Decommissioning Waste

Site	Medium	Waste Type	Volume Cubic Meters
Decontamination and Decommissioning	Debris Debris	SANI LLW	6200240

#### 5.2 Strategy for Remedy Selection

When required, interim corrective actions will be carried out where immediate risk exists to workers, the public, and/or the environment. Sufficient data must exist at these Corrective

Action Units (CAUs) to demonstrate that actions can be taken to stabilize, minimize, or mitigate the contamination until the final corrective action can be completed.

The process for implementing Corrective Action Investigations (CAIs) and/or corrective actions has been subdivided into three flowpaths which are based on existing Corrective Action Site (CAS) data and on-site conditions. The flowpaths include the housekeeping process, the SAFER process, and the complex process.

### **5.2.1 Housekeeping Process**

The housekeeping process will be used for CASs that do not require further investigation prior to completing the corrective action. At these CASs, data gathered during record search and field verification activities sanction the removal of source materials, directly impacted soil, and subsequent confirmatory sampling without additional investigation. Procedures have been developed and will be revised as needed in coordination with the Nevada Department of Environmental Protection (NDEP) for conducting these activities. Documentation of the source removal and confirmation sampling, if required, will be through a closure report.

### **5.2.2 SAFER Process**

The SAFER process will be employed at CAUs where enough information exists about the nature and extent of contamination to propose an appropriate corrective action prior to the completion of a CAI. This process combines elements of the DQO process and the observational approach to help plan and conduct corrective actions. DQOs will be used to identify the problem and define the type and quality of data needed to complete the investigation phase of the process. The observational approach will provide a framework for managing uncertainty and planning decision making.

The purpose of the investigation in the SAFER process will be to document and verify the adequacy of existing information; to affirm the decision for either clean closure, closure in place, or no further action; and to provide sufficient data to implement the corrective action. Actions and decisions for this process are governed by SAFER Plans. These plans incorporate the required elements of Corrective Action Investigation Plans (CAIPs), Corrective Action Decision Documents (CADDs), and Corrective Action Plans (CAPs) to allow work to proceed directly from the CAI to the corrective action. The plans will identify decision points, developed in cooperation with NDEP, where DOE and/or DNA will reach consensus with NDEP prior to beginning the next corrective action phase. Following completion of SAFER activities, or if the selected remedy is "no further action," a closure report will be prepared and submitted to NDEP.

### **5.2.3 Complex Process**

The complex process will be used for those CAUs where additional information is needed for the evaluation of possible corrective action alternatives. The CAIPs for CAUs following the complex process will focus on the investigation tasks required to prepare the CADD and will include the DQO process. As part of this process, conceptual models for CASs will evolve as data are collected and reviewed. When the investigation is complete, a CADD will be prepared to evaluate corrective action alternatives and to identify the selected corrective action.

Following NDEP approval of the selected corrective action outlined in the CADD, a CAP will be developed. This plan will be the document guiding the CAU corrective action. After completion of the corrective action, or if the selected corrective action is no further action, a closure report will be developed and submitted to NDEP.

NDEP will issue a notice of completion upon approval of the completion of a corrective action, and the CAU may be transferred from Appendix III of the FFACO (Corrective Action Investigations/Corrective Actions) to Appendix IV (Closed Corrective Action Units). If long term monitoring is necessary, the monitoring requirements for CASs or CAUs on facilities subject to the RCRA Permit will be incorporated into the permit. Long-term monitoring requirements for CASs or CAUs on facilities not subject to the RCRA Permit will be outlined in closure reports.

## **5.3 Installation-Wide Environmental Restoration Strategy**

### ***Technical Strategy***

The intent of the Nevada Environmental Restoration Project technical strategy is to provide a flexible, effective method of environmental response action that satisfies all regulatory requirements while accommodating the uncertainty that exists regarding a wide variety of site conditions, methods of site characterization, waste disposition, federal and state permit requirements, weather conditions, access restrictions, agency interactions and approvals, technological diversity, and resource and funding availability.

The technical strategy of the project consists of site identification, site categorization, and site response. The strategy places release sites into strategic groupings for purposes of investigation and possible remediation, thereby establishing a number of subprojects within the overall project. Three primary discriminators are used in the determination of the scope of the subproject: (1) common geographical location, (2) common types of sites and related environmental

problems, and (3) common regulatory drivers. Figure 5-1 provides an overview of the technical strategy.

The process of identifying potential release sites is carried out through the ER Site Inventory. Once identified and categorized geographically, sites are typically placed into one of two groupings for purposes of assessment and remediation planning: environmental and source groupings.

Environmental groupings result from multiple sources of contamination to an environmental medium such as soil or groundwater. Environmental groupings involve both widely distributed release points and large-scale contamination of environmental media. The Nevada Environmental Restoration Project environmental groupings are the Underground Test Areas and Soils. For the purposes of characterization and remediation of these areas, it is more practical to focus on the medium than on the individual sources of contamination.

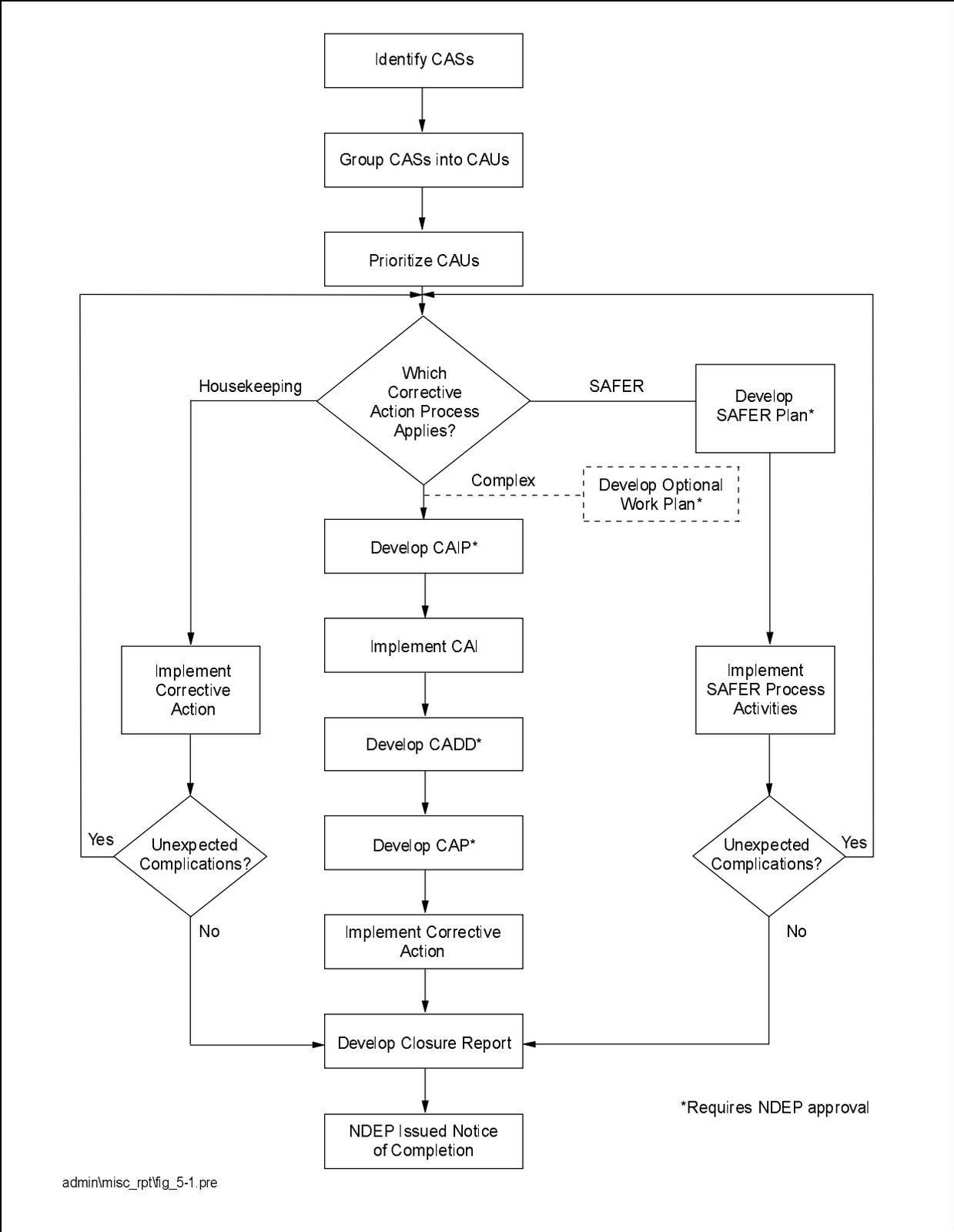
Source groupings are contaminated sites whose contamination is the result of single point sources and that do not overlap in area extent (e.g., spills, batteries, lead bricks, leachfields). Nevada Environmental Restoration Project subprojects based on source groupings are NTS and TTR, Industrial Sites, and Decontamination and Decommissioning.

### ***Regulatory Strategy***

The regulatory objectives of the Nevada Environmental Restoration Project are to conduct all project activities in compliance with applicable state and federal environmental laws, regulations, and agreements. All project activities are subject to DOE Orders. DOE Order 5400.4 requires that a CERCLA approach be taken to conduct environmental restoration activities, unless a site is recognized as being a RCRA-regulated site. Under terms of the FFACO, all DOE/NV activities within the state of Nevada will be regulated under the state's RCRA authority until such time as investigative activities determine that no RCRA constituents exist with the site being investigated. State oversight of these activities is covered by an Agreement-In-Principle with the state.

### **5.4 Strategy for Non-ER Regulatory Activities**

***Not Applicable.***



**Figure 5-1**  
**Technical Approach to Site Activities**

## **5.5 Strategy for Project Support Activities**

Establishment of a Nevada Operations Office Work Breakdown Structure will support management of both direct and indirect support costs within the operations office. Although the environmental management program already operates under a WBS structure and manages its direct support costs, management of indirect costs is a function of the Chief Financial Officer's office. Implementation of the operations office WBS in the latter part of FY1996 will place increased focus and federal management of both direct and indirect support costs across the operations office. Additionally, reduction of support costs is a prime focus of the newly awarded Bechtel Nevada performance measurement based contract. One of the key incentive milestones is to reduce indirect costs by 30 % in FY1996. Bechtel Nevada is on track to accomplish that objective.

## **5.6 Performance Measures**

The performance measures: Corrective Action Investigation Plan (CAIP); Corrective Action Decision Document (CADD); Corrective Action Plan (CAP); Closure Report; and their interface with the technical approach to site activities, are contained in Figure 5-1 of this document.

### **Strategic Measure 1. Relative Risk Reduction**

The Environmental Restoration Division at DOE/NV has classified all release sites by the relative risks scoring system (Table 4-1). The sites have been categorized by the high, medium and low classification scheme. As program priorities are implemented and the performance measure milestones are completed, the sites will move into the category of "no further action/completion" and will be available for future use.

### **Strategic Measure 2. Lands and Facilities Status**

The lands (soils) and facilities are also part of the relative risk scoring table (Table 4-1) and as the lands are remediated and the facilities decommissioned, they will be ready to be transferred for future beneficial use.

### **Strategic Measure 3. Resource Distribution**

The distribution of funds committed to activities by relative risk and by phase, assessment/remediation are contained in Appendix A.

#### **Strategic Measure 4. Program Efficiency**

Reducing program management and infrastructure costs. Productivity savings have been achieved by implementing more efficient ways of work within the Nevada Operations Office (DOE/NV) Environmental Management Program, and these savings are both measurable and verifiable against the FY1996 baseline. The source(s) of these savings are the result of contracting reform and initiatives which can be detailed as follows:

- Consolidation of three M&O contracts into one performance-based contract with Bechtel Nevada will reduce the cost of doing business on the NTS, benchmark service organizations with respect to the private sector, pursue community and business partnerships, and showcase the NTS as a unique outdoor test facility. One of the primary goals is to reengineer work processes to be more efficient and cost effective, as well as to eliminate unnecessary requirements and/or steps that add no value to work processes or products.

The immediate focus for the company is get cost models and cost structures in place to be considerably more competitive than the previous contracts. Completion of the models and structures is anticipated by late spring. Intermediate goals are to focus on the efficiency of work processes, with a goal of reengineering the processes to be more efficient and cost effective. A part of that focus is on eliminating unnecessary requirements or steps that do not add value to processes or work products, yet still conduct work to a set of standards similar to those used by industry. The target date for completing identification of those standards is March 31, 1996.

Many of the performance initiatives required by the contracts are still being refined; however, performance measures are in place, with EM-specific performance measures focused on applying commercial business practices to reduce costs while maintaining schedule and quality, and meeting all milestones identified in compliance agreements.

Information to date indicates significant cost savings to the DOE/NV EM program are likely to occur. The overall contractor work force was reduced from 3,600 to approximately 2,600 between November 1, 1995, and December 31, 1995. The reductions were primarily in the area of indirect and overhead support costs. Administrative staff were reduced by approximately 33 percent and technical staff by 6 percent.

- IT Corporation - The IT Corporation contract in support of the DOE/NV environmental restoration project was awarded in February 1992 for project management support, characterization activities, and remedial actions at Nevada off-site locations. The contract is very similar to the ERM concept and was designed to avoid potential conflict of interest by having the contractor(s) responsible for environmental damage not having responsibility for characterization of that damage. The contract, which has been extremely responsive to the needs of the program to date, was modified in FY 1995 to include the performance-based management concept. The original contract was cost plus

fixed fee and now is incentive fee. Twenty percent of fee is incentivized. Milestones and performance objectives have been determined and are effective March 1, 1996.

- Welch & Howell prime drilling contract - A prime drilling contract was awarded in September 1995 to Welch & Howell to drill six wells in support of Underground Test Area (UGTA) groundwater investigations on the NTS. The objective of the contract was to reduce drilling costs by 20-30 percent while maintaining quality wells that are completed in an environmentally defensible manner with all hydrologic and geologic data collection objectives met. The initiative was to align DOE/NV with current industry practices and allow for more effective utilization of resources. Thus far, results of the initiative are extremely positive. The two wells drilled under the contract have reduced the cost per well by 36 percent, for a savings of \$260,000 per well. A total of six wells is to be completed by the end of the second quarter, with the total savings if FY 1996 projected to be \$1,560,000.

Labor union issues have resulted from issuance of the contract, and DOE/NV senior management have agreed to allow Bechtel Nevada to drill the next set of wells schedule to be drilled for the UGTA program if the company can meet the revised cost and schedule baseline established by the Welch & Howell contract.

- Project support and overhead cost reduction - Consolidation of the three M&O contracts into the Bechtel Nevada contract is projected to result in elimination of 70 positions within the DOE/NV EM program, for an immediate savings of \$6,580,000, primarily in support costs. The cost elements for indirect and overhead costs are being managed and monitored by the company as a separate function to ensure visibility of the costs. In addition, the fringe benefit package for employees is significantly reduced from the previous contracts, with a projected savings to the DOE/NV EM program of \$1,000,000. Co-location of personnel and reduced facility usage are anticipated to result in an additional \$240,000 in savings to the program.

Improved or reengineered processes - At the inception of the UGTA subproject, the number of wells anticipated to be drilled was 10 wells per year. Little or no process knowledge was available to predict the quality and quantity of fluids to be produced by these drilling activities. In addition, negotiations with the state regulator to determine acceptable fluid management practices were in the early stages. A Liquid Waste Treatment System appeared to be the best way to manage fluids at that time. Since then, a Fluid Management Plan has been negotiated with the regulator that allows for onsite screening and management of fluids. That agreement is being renegotiated to allow for an even more streamlined management of fluids at well sites. In addition, the UGTA drilling program has been greatly downsized. Also, the fifteen wells constructed thus far in the UGTA program have added significantly to process knowledge, which now indicates that mixed waste is unlikely to be generated as the result of scheduled drilling activities. The estimated cost for treatment at the Liquid Waste Treatment System was \$500,000 per tank, with each tank having a capacity of 500,000 gallons. This is considerably more than the now estimated cost of \$50,000 to construct a lined sump of the same capacity at a well site. In addition, transport of radioactive fluids to the Liquid Waste Treatment System would increase the potential for accidents and spills, which could result in additional cleanup costs. Therefore, the decision has been made to not construct the Liquid

Waste Treatment System, for a savings to the DOE/NV EM program of \$4,890,000 (construction costs).

Emphasis on better coordination with the state of Nevada has resulted in lower than anticipated costs for negotiation of the Federal Facility Agreement and Consent Order, for a savings to date of \$20,000. Risk assessment activities in support of that activity have also been reduced because of the close coordination with the regulator, for a savings to date of \$6,034.

Geophysical support to Salmon Site activities has resulted in a reduction in the required number of soil borings, for a savings of \$8,778; and a reduction in the required number of shallow wells to be drilled, for a savings of \$42,179.

Use of University of Nevada, Las Vegas risk assessment support rather than contractor support for the Central Nevada Test Area and Shoal Site risk assessments has resulted in a savings of \$183,840.

## 6.0 Environmental Restoration Program Master Schedule

This section presents the Master Schedule, which is the Project Team's best current estimate of anticipated activities and compliance programs. Refinement and optimization of the Master Schedule will remain as an ongoing Project Team action item to achieve the best distribution of resources and effectiveness of actions. The schedule for remediation is presented in Figure 6-1, and performance milestones are given in Figure 6-2.

**TO BE SUPPLIED**

Schedule is being developed in concert with baseline.  
Estimated completion is the end of May.

Figure 6-1  
Master Schedule

**TO BE SUPPLIED**

Performance milestones are being developed in concert with baseline.  
Estimated completion is the end of May.

Figure 6-2  
Performance Milestones

## 7.0 Issues and Initiatives

Several issues related to remediation of the NTS have the potential to impede progress and drive costs upward. DOE must focus attention on these obstacles to quickly, safely, and cost-effectively complete its mission. These issues include:

### 7.1 *Issues*

- The strategy for the UGTA program is focused on management of the water resource potentially impacted by underground weapons testing activities. Because feasible technologies do not exist for remediation of these water resources, the preferred remedial option for UGTA is long-term monitoring on a seven-CAU basis. Efforts to date include data gathering and development of a groundwater model to predict potential impacts to the groundwater resource. The groundwater modeling effort for UGTA is currently undergoing independent peer review. If the review determines that the model cannot be validated, then an alternate corrective action strategy will need to be developed.
- Potential off-site contamination resulting from underground and surface weapons testing activities has potential to migrate off of DOE/NV controlled land. Lack of institutional control at these locations may create greater risk to the public. Following remediation of surface contamination and/or any existing facilities, each of the sites could be made available for unrestricted use of the surface. However, subsurface restrictions will remain in effect in the interests of both national security and minimizing the risk to public health. Maintaining subsurface restrictions may be difficult in areas off of the NTS because they are not under DOE control.

This lack of institutional control may also create problems for remediating surface release sites from DOE activities on land that is now part of the Nellis Air Force Range. Remediation of these soil sites will likely be required to be conducted at the convenience of Air Force schedules rather than at DOE schedules thus potentially creating additional costs and delays in schedules and remediation activities.

- National clean-up standards for radiologically contaminated surface soils have not yet been established with regulators. Because these criteria have not been established, costs associated with remediation are uncertain. The state regulator has approved 200 pCi/g as an interim clean-up level but has not committed to this as the final clean-up standard. Similarly, future clean-up actions may be subject to more stringent clean-up requirements which will be developed on a site-by-site basis. Waste volumes predicated on the interim clean-up standard have been used to estimate the costs of soil remediation. If a different clean-up standard is adopted in the future as a result of additional negotiations with regulators, waste volumes and associated costs will vary accordingly. Also, additional clean-up may be required should lower clean-up standards be established after interim soil removal actions have been completed.

- Determination of future beneficial uses of the NTS is dependent upon results of the site-wide EIS and the Resource Management Plan, as well as future missions of the NTS. The site-wide EIS will be completed in July, 1996 and the Resource Management Plan in FY 1997. Until results of these documents are available to the program, it is assumed that all areas except the Underground Test Area will be returned to some type of beneficial use. However, the type of beneficial use has not yet been established. Determinations of future land use will provide a basis for establishing clean-up standards for radiologically contaminated soils.
- Equity remains a key issue with the state regulator who is concerned that the low level waste disposal mission potentially will impact environmental restoration activities within the State of Nevada.

## **7.2 Initiatives to Improve Project Performance**

### ***Contract Reform***

In October 1995, DOE awarded a \$1.5 billion, five-year, performance-based contract to the Bechtel Nevada Corporation for the management and operation of the NTS. The contract will run from January 1, 1996, through December 31, 2000, and employs many of the most innovative practices and procedures within the DOE complex to date, emphasizing concrete, measurable results and increasing contractor accountability through fixed pricing and an incentive fee structure. This new contract combines into one contract the work that had historically been performed under three separate contracts (Details of this effort are contained in Section 5.6 Strategic Measure 4).

### ***Streamlined Approach for Environmental Restoration (SAFER)***

The Closure of the Area 27 Explosive Ordnance Disposal (EOD) Treatment Facility was the first SAFER closure of a RCRA site at NTS. The SAFER approach reduced project costs because of the elimination of the assessment phase. The project was completed one year ahead of schedule.

### ***Increased Use of Competitive Subcontracts for Drilling***

The NTS has increased the use of competitive subcontracts for the drilling of deep groundwater wells, and issued a prime drilling contract that has resulted in a 30 percent savings thus far. Expected future savings are \$600,000 for a typical well (Details of this effort are contained in Section 5.6 Strategic Measure 4).

### ***Pollution Prevention/Management of Drilling Fluids***

NTS is evaluating pollution prevention techniques for groundwater studies in order to more effectively manage drilling fluids. For an initial investment of \$200,000 to \$300,000, a cost avoidance of \$1.3 million could be realized as well as a waste volume reduction of 3,177 cubic meters of contaminated solids.

**Appendix A**  
**Fiscal Year Funding Requirements/Costs**

## NTS Installation Cost Baseline

Activity No.	Phase	FY 89-95 (000\$)	FY 96 (000\$)	FY 98 (000\$)	FY 99 (000\$)	FY 2000-Complete (000\$)
<b>High Relative Risk</b> Small Site	Assessment	\$ 135	\$ -	\$ -	\$ -	\$ -
	Remediation	\$ -	\$ 1,550	\$ -	\$ -	\$ -
Subtotal-High		\$ 135	\$ 1,550	\$ -	\$ -	\$ -
<b>Medium Relative Risk</b> Small Site	Assessment	\$ 478	\$ 2,307	\$ 1,750	\$ 911	\$ -
	Remediation	\$ 5,641	\$ 16,253	\$ 10,595	\$ 4,704	\$ -
Subtotal-Medium		\$ 6,119	\$ 18,560	\$ 12,345	\$ 5,615	\$ -
<b>Low Relative Risk</b> Small Site	Assessment	\$ 5,116	\$ 1,978	\$ 3,481	\$ 3,400	\$ 152,840
	Remediation	\$ 20,612	\$ 16,281	\$ 18,235	\$ 25,793	\$ 886,091
Subtotal-Low		\$ 25,728	\$ 18,259	\$ 21,716	\$ 29,193	\$ 1,018,931
<b>Program Management</b>		\$ 6,282	\$ 6,239	\$ 6,013	\$ 6,013	\$ 201,653
<b>Other</b>		\$ 2,169	\$ 2,214	\$ 2,620	\$ 2,620	\$ 161,192
<b>Total</b>		\$ 40,433	\$ 46,822	\$ 42,509	\$ 43,441	\$ 1,381,776

**Appendix B**  
**Major Installation Environmental Restoration Documents**

Major Installation Environmental Restoration Documents  
Expected Deliverables from Execution Year

Title	Date	Phase	Applicable Activities	Point of Contact
Complete EIS Final Document	11/95		Project Support	Frank Maxwell
Final Jr. Hot Cell Remediation Report	1/96	Remediation	D&D	Tom
Final Jr. Hot Cell Remediation Report	1/96		Project Support	Tom Greene
DT Animal Hide Burial Area Closure Plan Draft	2/96		Project Support	Janet Appenzeller-Wing
Final EPA Farm Facility Characterization Report	2/96	Assess	D&D	Tom
Submit Final Field Report - CNTA	2/96	Assess	Off Sites	Roxanne
Complete Characterization Work Plan Area 6 Decon	2/96	Assess	RCRA	Janet Appenzeller-Wing
Final D&D Facility Evaluation Report	3/96	Assess	D&D	Tom
Submit RDSs	4/96			David Hippensteel
Submit ADSs FY98-2002	4/96		Project Support	Bobbie
Submit MAP	4/96			Bobbie
Complete Final CA/Characterization Plan for Area 6 SCEPS	4/96	_____	RCRA	Janet
Complete Final RCRA Closure Plan Area 2 Bitcutter _____	4/96	_____	RCRA	Janet
Final D&D Plan for EPA Farm Remediation	5/96		Project Support	Tom Greene
Develop MAP	5/96		Project Support	Bobbie K. McClure
Submit Revised Project Baseline	5/96			Bobbie
Final D&D Plan for EPA Farm _____	5/96	_____	D&D	Tom
Complete Characterization Report DPF Sediments - _____	7/96	Assess	RCRA	Janet
Complete Annual ER Sites Status Draft	8/96		Project Support	Janet
Complete Database Management Report	9/96	_____	UGTA	Jonathan Pickus
Deliver Final ER HASP to DOE	9/96		Project Support	Tom Greene
Submit Final Baseline Risk Analysis - Shoal	9/96	Assess		Roxanne
Final Hydrologic Letter of Achievement ER-20-6	9/96	_____	UGTA	Steven Lawrence
Complete 100 Closure Reports	9/96		Project Support	Janet
Submit Annual BEMR	9/96		Project Support	Bobbie K. McClure

**Appendix C**  
**Decision Documents**

## C.1.0 Decision Documents

### **C.1.1 Area 27 Explosive Ordnance Disposal Treatment Area**

The Area 27 Explosive Ordnance Disposal (EOD) is an open-burn/open-detonation Resource Conservation and Recovery Act unit located in the north-central part of Area 27 at the Nevada Test Site. The unit was used to burn or detonate nonradioactive explosives, as well as nonexplosive combustibles, such as packing materials. They used kerosene or diesel fuel for burn events and up to 23 kilograms (50 pounds) of explosives for detonations. The site was used from about 1960 until November 1992. In its last five years of operation, the site was used on for treatment purposes. At its peak, the site was used twice per month.

After studying the Area 27 EOD Treatment Unit's operating history, experts decided the Streamlined Approach for Environmental Restoration (SAFER) approach was ideal because minimal soil contamination was indicated, even in a worst-case scenario:

- Soil within the Burn Remains Pit and within 0.3 meters of the perimeter of the Pit was removed by excavation to a depth of 0.3 meters.
- The burn cage used to incinerate nonexplosive combustibles (like packaging materials) was removed from the EOD grounds and visibly stained soil under and around the cage was also removed.
- Explosion pits, where detonations occurred, were filled after sampling verified no contamination.
- Sampling of a wash adjacent to the EOD was performed to examine the possibility of spreading contamination.

Remediation was completed in November 1994, on year ahead of schedule, marking the first closure at the Nevada Test Site using this approach.

### **C.1.2 Area U-3fi Waste Unit**

The U-3fi Waste Unit was an abandoned emplacement hole located in Area 3 of the Nevada Test Site. It was drilled between March 27 and April 24, 1967, for emplacement of a nuclear testing device for the Los Alamos National Laboratory. On April 11, 1967, the depth of the hole was 25 meters below the surface. Due to subsurface conditions, a thicker drilling foam was introduced to the hole. The foam did not work and the hole caved, trapping the drill bit at a depth of 254.8 meters. Attempts to retrieve the drill bit failed and the hole was abandoned on

April 24, 1967. The hole was turned into a Waste Unit in 1970 and primarily received postshot drillback waste. The disposed waste was primarily postshot drillback “high grading wash water which was solidified with cement. Radioactive cores from drillback operations were also disposed into the unit. In 1977, four additional sources contributed waste to the Waste Unit.

Based upon the finding of the drilling characterization program, analytical data indicated that the soils around the well head and subsurface soil had concentrations below Regulatory Action Levels. Therefore, remediation of the surface or subsurface soil within the vicinity of the U-3fi Waste Unit was not required. From this point remedial actions focused on plugging the Waste Unit by using expanding cement grout and sand. In addition to plugging the hole, arrangements were made to include the installation of a well to monitor soil moisture. Closure began on September 28, 1995 and finished on September 28, 1995.

### ***C.1.3 Area 23 Landfill Hazardous Waste Trenches***

The Area 23 Landfill was in operation for approximately 25 years. During this period, various trenches were excavated and used for the disposal of sewage, sanitary waste, aerosol cans, construction debris (wood, concrete, bricks, and metal), noninfectious medical waste, and hazardous waste. All of the waste in the closure area was covered with soil prior to contamination.

The characterization process resulted in a closure plan which consisted of the construction of two covers with a total are of 152,470 square feet. The engineered covers were designed to limit the infiltration of moisture which could potentially mobilize wastes located in the identified trench areas. In conjunction with the engineered covers, neutron access tubes were installed to monitor subsurface moisture conditions and to provide information on potential movement of moisture in the subsurface. The Area 23 Landfill Hazardous Waste Trenches was closed in 1993.

### ***C.1.4 Housekeeping Sites***

Housekeeping Sites are Corrective Action Sites that do not require further investigation prior to completing the corrective action. Examples of wastes at Housekeeping Sites include abandoned chemicals, drums/barrels, lead shielding, other spill sites, petroleum sites, oil/fuel spills, batteries, buckets/cans, compressed gas cylinders, transformers/PCBs, trash/debris, etc. At these sites, data gathered during record research and field verification activities sanction the removal of source materials, directly impacted soil, and subsequent confirmatory sampling without

additional investigation. Procedures have been developed and will be revised as needed in coordination with NDEP for conducting these activities.

Approximately 321 Housekeeping Sites have been closed at the NTS.

**Appendix D**  
**Conceptual Model Data Summaries**

## D.1.0 Conceptual Data Model Summaries

The map of the NTS depicting the areas of contamination is contained in Figure 3-1 of the MAP document. A detailed explanation of the contaminant and relative risk are contained in Table 4-1 of the MAP document.

## **Appendix E Project Controls**

## E-1.0 Project Management, Measurement, and Planning and Control Systems

Planning, management, measurement, control, and reporting of project activities to DOE/HQ is at Level 6 of the Work Breakdown Structure. Project activities at the DOE/NV Operations Office level are planned, managed, measured, controlled, and reported at Level 8. Progress, expenditures, schedules, and accomplishments are measured and controlled at Level 6 through the DOE/HQ Progress Tracking System and at Level 7 through a formal DOE/NV Office of the Assistant Manager, Environmental Management project control system, the Performance Measurement System.

### ***E-1.1 Work Authorization***

DOE/HQ has established a number of policies and requirements that govern project work scope at Level 6. Planning processes include development of Activity Data Sheets, Project Plans, Project Management Plans, and Site-Based Plans. These processes involve establishing work scope, resource requirements, schedules, and milestones; identifying project assumptions, issues, and constraints; and specifying project control parameters. Project control functions established by DOE/HQ include issuance of Program Execution Guidance that identifies major activities and milestones that DOE/HQ wishes to track within EM programs at the field level. EM-40 also has a requirement for a Performance Measurement Baseline that establishes the approved cost, schedule, and technical standards against which performance is monitored and measured at Level 6.

Authorization of work scope at Level 7 is a process that combines planning, cost estimation, budget allocation, and budget approval processes. Work scope at this level is accomplished through task plans which establish the scope, costs, schedule, milestones, and spending plan for specific work to be accomplished by a contractor or user organization. Upon approval of the task plans, work scope is incorporated into a Work Authorization Document (WAD) or Task Orders that become a contractor's programmatic authorization to perform work for the project. Contractual authorization documents are generally at Level 6 of the project's Work Breakdown Structure.

Modifications to task plans are through formal change control processes.

### ***E-1.2 Funds Management***

Cost estimates within task plans follow guidance established in the following documents:

- DOE Order 5700.2D, *Cost Estimating, Analysis, and Standardization*
- *EM CAT Handbook*
- *MA0063 Cost Guide*, Volumes 1-6
- *DOE/NV Cost Estimating Guide*

Cost estimates form the basis for budget requests. The annual budget request considers both the required resources and the annual distribution of the estimated costs over the five-year planning cycle. Budget formulation and execution are accomplished in accordance with DOE Order 5100.3, *Field Budget Process*. Upon approval of funding by DOE EM-40 through an Approved Funding Plan, work authorization is reviewed and revised, as applicable, based on the funding received. Approved funding is allocated at Level 6; however, DOE/NV has the authority to transfer funds among its Activity Data Sheets within limits specified by the EM-40 Program Manager. Reallocation of funds within Activity Data Sheets is done through formal change control processes. Allocated funds are tracked by DOE/HQ through the Progress Tracking System. DOE/NV input to the system is coordinated with its Budget and Resource Management Division to ensure that reported funds reflect information in the Financial Information System.

### ***E-1.3 Performance Measurement and Control***

Performance measurement consists of monitoring progress against the established project baseline, analyzing variances and the impacts of the variances, and implementing corrective actions. DOE/HQ uses its Progress Tracking System to monitor performance at Level 6 of the project's Work Breakdown Structure, and DOE/NV uses its Performance Measurement System to monitor performance at Level 8. The project baseline, task plans, and individual contractor Work Authorization Documents provide the basis against which project performance is measured and controlled. The Performance Measurement System provides the foundation for reporting information to the Progress Tracking System; the two systems are linked to ensure the consistency of data across both systems.

Monthly performance data is reviewed by the individual subproject managers, the Project Manager, and the DOE EM-40 Program Manager to identify potential impacts to technical requirements criteria, the validity of cost estimates, necessary corrective actions for significant

variances, and the progress of critical-path activities within the project. Quarterly reports are also prepared to detail project progress against the approved project baseline.

DOE EM-40 conducts mid-year and year-end reviews to assess project status, identify current or impending problems, establish preliminary requirements for the upcoming year, and identify areas where EM-40 management assistance would be beneficial. Mid-year reviews examine the progress of all activities and their impact on accomplishing approved project plans; year-end reviews document completed work and discuss plans and related funding for the upcoming year.

The task planning effort described in Section E-1.1 establishes the baseline scope, budget, and schedule for each task where contractor performance is measured and controlled for the current year. Contractors are responsible for monitoring performance on assigned tasks and reporting to DOE/NV on a monthly basis. Contractor performance measurement and control systems retain flexibility, but must be capable of providing the following information at a minimum:

- Cost Performance:
  - Budgeted cost of work scheduled
  - Actual cost of work performed
  - Budgeted cost of work performed (earned value)
  - Cost variances
  - Estimates at completion
  - Earned value analysis
- Schedule Performance:
  - Approved baseline schedule
  - Schedule variances
  - Major commitment tracking
  - Milestone tracking

Specific performance measurement and control requirements are itemized in DOE Orders 1332.1A, *Uniform Reporting Requirements*; 4700.1, Change 1, *Project Management System*; and DOE Notice 4700.6, *Project Control Systems Guidelines*.

All contractor reporting must be consistent with the project's Work Breakdown Structure. Variances from baseline budgets and schedules are reported using a Variance Analysis Report, in addition to a recommended corrective action or proposed change control action.

### **E-1.4 Change Control**

Baseline management is part of a planned program to monitor and control project performance. The process designates variance thresholds above which approvals must be secured as well as the procedural requirements for securing the approvals. Thresholds and approvals vary for the level of the Work Breakdown Structure at which the change occurs. When actual or projected variances exceed the variance thresholds for an approved cost, schedule, or technical baseline, formal baseline change control action is initiated in response to requirements established in DOE Order 4700.4, *Baseline Change Control Process*.

There are four levels of Change Control thresholds: two within DOE Headquarters and two with DOE/NV. The two Headquarters levels are Acquisition Executive (Level 0) and the Secretarial/Program Office (Level 1). The DOE/NV levels are the Office of Assistant Manager, Environmental Minimization (Level 2) and the Environmental Restoration Division (Level 4). Each level contains its own Change Control Board that reviews cost, schedule, and technical change requests that exceed the authority of the next lowest level board. Such changes, when approved, are incorporated in the Performance Measurement System to ensure that performance measurement for the project reflects the most current cost, schedule, and technical status.

A baseline change control that requires DOE/HQ approval is initiated through a Cost/Schedule Change Request. The request must include the following information:

- A description of the change in terms of scope, schedule, and cost
- A justification for the change, including a discussion of any position taken by an involved regulatory agency with respect to the change
- An assessment of any cost, schedule, regulatory, institutional, or public impact if the request is not approved

Within approved thresholds, DOE/NV may revise baseline data without seeking EM-40 approval; however, these revisions must be processed through a DOE/NV Change Control Board. The *Office of Assistant Manager, Environmental Management Change Control Instruction* and the *Nevada Environmental Restoration Project Change Control Standard Operating Procedure* provide detailed information regarding change control processes pertinent to the project.

Contractor-requested changes at the task level are reviewed by the Contractor's Change Control Board, the DOE/NV subproject manager, and either approved at that level or submitted to the field Change Control Board and/or DOE/HQ Change Control Board, as applicable. Upon approval of the change request, a Task Order Change Order is issued to the contractor. Contractors are not to proceed with any out-of-scope work that is the subject of a change request until the Change Order is issued by DOE/NV.

### ***E-1.5 Information and Reporting***

The availability of adequate and valid information for decision-making and accountability is essential to the success of the project. The project's information management process is designed to accomplish the following:

- Provide ready access to data for decision making.
- Ensure that project records are specified, prepared, and maintained in accordance with DOE procedures.
- Define and control processes for developing database management systems and integrating existing databases.
- Control access to information to ensure that information is modified only by the responsible personnel.

Documents that are subject to controlled distribution or are issued to the public are controlled in accordance with requirements established by the *DOE/NV Quality Assurance Manual*. For such documents, organizational and individual responsibilities are assigned for document issuance, change control, review, and approval. Record copies are maintained for auditing and compliance purposes. Formal review is requested in writing for all documents that are subject to document control; comments are documented by reviewers and incorporated by the authors, with written response provision for comment resolution. The record of the review and approval process is retained as a formal quality assurance record. Records are subject to records control procedures identified in the *DOE/NV Quality Assurance Manual*, the *DOE/NV Environmental Restoration and Waste Management Project Quality Assurance Program Description*, and in the *Nevada Environmental Restoration Project Document Control Standard Operating Procedure*.

Project correspondence is tracked through a formal document tracking system.

**Appendix F**  
**Environmental Restoration**  
**Work Breakdown Structure**

