



U.S. DEPARTMENT OF
ENERGY

Legacy
Management

Site Management Guide

(Blue Book)

January 2016



Cover photos, top to bottom, left to right:

- Prairie at the Fernald Preserve (Ohio).
- Drilling rig at the Riverton, Wyoming, Processing Site.
- Monitoring well and meteorological station at the Bluewater, New Mexico, Disposal Site.
- Removing East Trenches Plume Treatment System Cell 1 railing at the Rocky Flats, Colorado, Site.
- Philip C. Leahy Memorial Park at the Grand Junction, Colorado, Site.

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1.0 Introduction

The U.S. Department of Energy (Department) Office of Legacy Management (LM), established in 2003, manages the Department's postclosure responsibilities and ensures the future protection of human health and the environment.

During World War II and the Cold War, the Federal government developed and operated a vast network of industrial facilities for the research, production, and testing of nuclear weapons, as well as other scientific and engineering research. These processes left a legacy of radioactive and chemical waste, environmental contamination, and hazardous facilities and materials at well over 100 sites. Since 1989, the Department has taken an aggressive accelerated cleanup approach to reduce risks and cut costs.

At most Departmental sites undergoing cleanup, some residual hazards will remain at the time cleanup is completed due to financial and technical impracticality. However, the Department still has an obligation to protect human health and the environment after cleanup is completed. LM fulfills DOE's postclosure obligation by providing long-term management of postcleanup sites which do not have continuing missions.

LM is also responsible for sites under the Formerly Utilized Sites Remedial Action Program (FUSRAP). Currently, the U.S. Army Corps of Engineers (USACE) is responsible for site surveys and remediation at FUSRAP sites. Once remediation is completed, LM becomes responsible for long-term management.

LM also has responsibility for uranium processing sites addressed by Title II of the Uranium Mill Tailings Radiation Control Act (UMTRCA). UMTRCA Title II sites are sites that were commercially owned and are regulated under a U.S. Nuclear Regulatory Commission (NRC) license. For license termination, the owner must conduct an NRC-approved cleanup of any on-site radioactive waste remaining from former uranium ore-processing operations. The site owner must also provide full funding for inspections and, if necessary, ongoing maintenance. Once site cleanup is complete, LM accepts title to these sites on behalf of the United States and assumes long-term management.

2.0 Purpose

The main purpose of the *LM Site Management Guide* is to be a reference document for LM and its contractor(s) and to provide accurate and consistent information across the LM organization. The *LM Site Management Guide* Coordinator will update the guide annually. The primary data elements of the *LM Site Management Guide* include the following:

- 1) Site Name and Location (State)
- 2) Pre-LM Name
- 3) Transferring Organization
- 4) Actual Transfer Date [Fiscal Year (FY)]
- 5) Planned Transfer Date (FY)
- 6) Regulatory Driver
- 7) Site Type (Category 1, 2, or 3)

The data elements listed above are under configuration control (see Section 8.0) and cannot be altered without proper approvals. LM will manage and control all *LM Site Management Guide* changes except changes to data regarding the Office of Environmental Management (EM) Closure Sites transferring to LM. Such changes require joint approval by EM-1 and LM-1.

3.0 Site Types

The long-term management of each LM site is designated as one of three types based on the actual or anticipated long-term surveillance and maintenance (LTS&M) activities associated with that site. The site type indicates the level of LTS&M activities that are expected for each site, based on the following categories:

- Category 1 activities typically include records-related activities and stakeholder support
- Category 2 activities typically include routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support
- Category 3 activities typically include operation and maintenance of active remedial action systems, routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support

Note: For sites that may have multiple categories, the overall category designation will always be the highest of all categories listed for that site. For example: The Salt Lake City, Utah, Disposal/Processing Site is currently counted as one site, but has two types of categories. The Salt Lake City, Utah, Processing (mill site) site is a category 1 site and the Salt Lake City, Utah, Disposal site is a category 2 site. For reporting purposes, this site will have an overall category designation as a category 2 site.

4.0 Site Counts

The *LM Site Management Guide* is the control document for all site count information. The manner in which sites are counted is critical to ensuring LM provides accurate and consistent site count data. It has been determined that each geographic site location will be counted as one site. This also includes geographic site locations having both a former processing site and an associated disposal site. These types of sites will also be counted as one site.

Note: Currently the only exceptions to the site count guidance are two FUSRAP sites in Berkeley, Missouri (Berkeley Site and Berkeley Site Vicinity Properties), and the two FUSRAP sites in Niagara Falls, New York (Niagara Falls Storage Site and Niagara Falls Storage Site Vicinity Properties). These four FUSRAP sites are currently counted as four sites due to the fact the USACE managed these sites as four separate sites.

The following represents examples of some UMTRCA sites having both a former processing site and an associated disposal site:

- **Two Gunnison, Colorado, sites count as one site**
 - 1) Gunnison, Colorado, Disposal Site
 - 2) Gunnison, Colorado, Processing Site
- **Three Rifle, Colorado, sites count as one site**
 - 1) Rifle, Colorado, Processing (New) Site
 - 2) Rifle, Colorado, Processing (Old) Site
 - 3) Rifle, Colorado, Disposal Site

5.0 Site Nomenclature

The names of many sites that transfer to the LM program are confusing and non-descriptive. In many cases sites have names using the company name of the former operator of the site, or use a geographic name or nickname. LM has established the following guidelines for naming or identifying sites within LM in order to eliminate confusion when trying to identify sites and site locations:

- 1) Eliminate use of company names of current or former operators or property owners.
- 2) When possible, name a site by using the name of the nearest city or town. If multiple sites exist near the same city or town, use a direction name (North, South, East, West) following the city or town name.

Note: LM will receive a few sites that do not have a city or town near the site to use as the site name. In these cases, the sites will retain the current pre-LM name. **Example:** There are no cities or towns near the Salmon, Mississippi, site. “Salmon” is the project name of the site and is not referencing a geographic location; therefore, the Salmon, Mississippi, site will retain the pre-LM site name.

FUSRAP sites pending transfer to LM retain their USACE name (as shown under Pre-LM Name column in Appendix B). Upon transfer, site names will be changed in accordance with LM Site Nomenclature.

LM has also revised several site names for sites that have not yet transferred to LM (mainly associated with UMTRCA Title II sites) for internal management purposes. Until a site officially transfers to LM, the original (pre-LM) site name will be referenced in all outside reporting and data sharing. Appendixes A and B contain both of the sites’ pre-LM and LM site names for ease in cross-referencing.

- 3) The name should also include the state where the site is geographically located.

- 4) When applicable the site name should include additional information about the site e.g., processing, disposal, decommissioned reactor. See example below:

Maybell, Colorado, Disposal Site
Maybell West, Colorado, Disposal Site

6.0 Site Transition Policy

This section references the following site transition policy documents:

- **Terms and Conditions between EM and LM** – Outlines proposed terms and conditions for managing and funding site transition activities between EM and LM. The terms and conditions can be located at the following web address:
<http://energy.gov/lm/guidance-reports-and-documents>
- **Site Transition Plan Guidance** – This document provides guidance regarding the development of Site Transition Plans. Site Transition Plan Guidance can be located at the following web address:
<http://energy.gov/lm/guidance-reports-and-documents>
- **Site Transition Framework** – This document provides a framework for all DOE facilities and sites where DOE may have anticipated long-term surveillance and maintenance (LTS&M) responsibilities. The Site Transition Framework can be located at the following web address:
<http://energy.gov/lm/guidance-reports-and-documents>
- **Site Transition Process Upon Cleanup Completion** – This two-page fact sheet outlines LM's policy on various aspects of site transition. This document can be located at the following web address:
<http://energy.gov/lm/guidance-reports-and-documents>
- **Site-Specific Fact Sheets** – This is a collection of fact sheets for sites that have transferred to LM. The fact sheets cover the following topics: key milestones; site condition at the time of transfer; transition issues; and information regarding the management and mitigation of programmatic risk. Site-specific information can be acquired from the respective LM site manager, and/or found at the following web address:
<http://energy.gov/lm/sites/lm-sites>

7.0 Interrelationship of Site Management Guide Data

All LM federal and contractor staff should recognize the importance of abiding by the *LM Site Management Guide* due to the interrelationship and interdependency between site count data and other LM products, processes, and systems.

Looking at the LM Program and the core functions of planning, budget formulation, budget execution, and evaluation, site count data is clearly found as being a major part of many products. The following are just a few of the products that require current and accurate site count data:

- LM Strategic Plan
- Budget Formulation
- Life-Cycle Planning
- Environmental Liability Estimates
- DOE Performance Measure Management (PMM) System

LM staff should use the *LM Site Management Guide* as the source document when preparing or releasing site count information for Departmental data calls, or to other transferring organizations. All changes or questions associated with the data in this guide should be addressed with the *LM Site Management Guide* Coordinator.

8.0 Appendixes

The *LM Site Management Guide* data will be reported in the following appendixes and changes from the previous update are shown in red:

Appendix A – Current LM Site Count Listing. This appendix is a listing of sites in the LM Program.

Appendix B – Site Transition Schedule. This appendix represents a schedule of sites planning to transfer to LM during FY 2016 – FY 2050.

Appendix C – Planned Site Count by Year. This appendix is a list of sites currently in the LM Program and sites planning to transfer to LM during the next ten years.

Appendix D – Current Site Count by State. This appendix is a chart of sites by state currently in the LM Program.

Appendix E – LM Site Map. This appendix is a map of sites currently in the LM Program.

Appendix F – Site Count by Regulatory Type and Category. This appendix is a chart displaying site counts by Regulatory Type and Category currently in the LM Program.

Appendix G – Site Information Summary. This appendix provides a summary for sites that are being managed under LTS&M. It consists of commonly used data points from the DOE Office of Legacy Management Site Overview report (number of wells, number of disposal

cells, and the number of institutional controls) and is grouped by regulatory type. The sites are counted as outlined in Section 4.0 above. Additionally, the summary will reflect prior year data and site data for the current year. The site-specific information supporting the summary will be reviewed and updated on an annual basis by DOE and contractor site managers.

Appendix H – Land Having Legacy Management LTS&M Activities. This appendix is a chart displaying acreage totals for non-DOE-owned sites/land with rights to conduct activities, DOE-owned (fee simple) land, and withdrawn land (see DOE Office of Legacy Management Site Overview report).

Appendix I – Acronyms. This appendix is a list of acronyms used in the *LM Site Management Guide*.

Appendix A: Current LM Site Count Listing

LM Site Count Listing Through January 31, 2016

| | LM Site Name | Pre-LM Name | Category ¹ | Regulatory Driver | Fiscal Year Transfer Date ² |
|----|--|---|-----------------------|-------------------|--|
| 1 | Acid/Pueblo Canyon, NM, Site | Acid/Pueblo Canyon | 1 | FUSRAP | 1985 |
| 2 | Adrian, MI, Site | General Motors | 2 | FUSRAP | 1996 |
| 3 | Albany, OR, Site | Albany Research Center | 2 | FUSRAP | 1993 |
| 4 | Aliquippa, PA, Site | Aliquippa Forge | 2 | FUSRAP | 1997 |
| 5 | Ambrosia Lake, NM, Disposal Site | Ambrosia Lake | 2 | UMTRCA Title I | 1998 |
| 6 | Amchitka, AK, Site | Amchitka Island | 2 | Other | 2008 |
| 7 | Ashtabula, OH, Site | Ashtabula Closure Project | 1 | Other | 2010 |
| 8 | Bayo Canyon, NM, Site | Bayo Canyon | 1 | FUSRAP | 1984 |
| 9 | Berkeley, CA, Site | University of California (Gilman Hall) | 1 | FUSRAP | 1985 |
| 10 | Beverly, MA, Site | Ventron Corporation | 1 | FUSRAP | 2004 |
| 11 | Bluewater, NM, Disposal Site | Bluewater Site | 2 | UMTRCA Title II | 1997 |
| 12 | BONUS, PR, Decommissioned Reactor Site | BONUS Reactor | 2 | D&D | 2004 |
| 13 | Buffalo, NY, Site | Bliss and Laughlin Steel Company | 1 | FUSRAP | 2002 |
| 14 | Burrell, PA, Disposal Site | Burrell Site | 2 | UMTRCA Title I | 1994 |
| 15 | Burris Park, CA, Site | Burris Park Field Station | 2 | FUSRAP | 2015 |
| 16 | Canonsburg, PA, Disposal Site | Canonsburg Site | 2 | UMTRCA Title I | 1996 |
| 17 | Center for Energy and Environmental Research, PR, Site | Rio Piedras Site | 1 | Other | 2006 |
| | | Mayaguez site | | | |
| 18 | Central Nevada Test Area, NV | Central Nevada Test Area | 2 | Other | 2008 |
| 19 | Chariot, AK, Site ³ | Chariot Site | 2 | Other | 2005 |
| 20 | Chicago North, IL, Site | National Guard Armory | 1 | FUSRAP | 1989 |
| 21 | Chicago South, IL, Site | University of Chicago | 2 | FUSRAP | 1989 |
| 22 | Chupadera Mesa, NM, Site | Chupadera Mesa | 1 | FUSRAP | 1986 |
| 23 | Columbus East, OH, Site | B & T Metals Site | 1 | FUSRAP | 2001 |
| 24 | Columbus, OH, Site | Columbus Closure Project | 1 | Other | 2008 |
| 25 | Durango, CO, Disposal/Processing Site | Bodo Canyon Cell | 3 | UMTRCA Title I | 1996 |
| | | Durango Mill | | | |
| | | Raffinate Ponds | | | |
| 26 | Edgemont, SD, Disposal Site | Edgemont Site | 2 | UMTRCA Title II | 1996 |
| 27 | El Verde, PR, Site | El Verde | 1 | Other | 2006 |
| 28 | Fairfield, OH, Site | Associate Aircraft Tool and Manufacturing | 2 | FUSRAP | 1996 |
| 29 | Falls City, TX, Disposal Site | Falls City Site | 2 | UMTRCA Title I | 1997 |
| 30 | Fernald, OH, Site | Fernald Closure Project | 3 | CERCLA/RCRA | 2008 |
| 31 | Gasbuggy, NM, Site | Gasbuggy Site | 2 | Other | 2008 |
| 32 | General Atomics Hot Cell Facility, CA, Site | General Atomics Hot Cell Facility | 1 | Other | 2005 |
| 33 | Geothermal Test Facility, CA, Site | Geothermal Test Facility | 1 | Other | 2005 |
| 34 | Gnome-Coach, NM, Site | Gnome-Coach | 2 | Other | 2008 |
| 35 | Grand Junction, CO, Disposal/Processing Site | Cheney Disposal Cell | 3 | UMTRCA Title I | 1999 |
| | | Grand Junction Mill 1 | | | |
| 36 | Grand Junction, CO, Site | Grand Junction Mill 2 | 2 | D&D | 2002 |
| 37 | Granite City, IL, Site | Granite City Steel | 1 | FUSRAP | 1994 |
| 38 | Green River, UT, Disposal Site | Green River Site | 2 | UMTRCA Title I | 1998 |
| 39 | Gunnison, CO, Disposal/Processing Site | Gunnison Disposal Cell | 2 | UMTRCA Title I | 1997 |
| | | Gunnison Mill | | | |
| 40 | Hallam, NE, Decommissioned Reactor Site | Hallam Nuclear Power Facility | 2 | D&D | 1998 |
| 41 | Hamilton, OH, Site | Herring-Hall-Marvin Safe Company | 1 | FUSRAP | 1997 |

Continued on next page

Appendix A: LM Site Count Listing (continued)

LM Site Count Listing Through January 31, 2016

| | LM Site Name | Pre-LM Name | Category ¹ | Regulatory Driver | Fiscal Year Transfer Date ² |
|------------------------|---|--|-----------------------|-------------------|--|
| 42 | Indian Orchard, MA, Site | Chapman Valve Site | 1 | FUSRAP | 2004 |
| 43 | Inhalation Toxicology Laboratory, NM, Site | Inhalation Toxicology Laboratory | 1 | Other | 2012 |
| 44 | Jersey City, NJ, Site | Kellex/Pierpont | 1 | FUSRAP | 1983 |
| 45 | Laboratory for Energy-Related Health Research, CA, Site | Laboratory for Energy-Related Health Research | 2 | CERCLA/RCRA | 2006 |
| 46 | Lakeview, OR, Disposal/Processing Site | Lakeview Site | 2 | UMTRCA Title I | 1995 |
| | | Lakeview Mill | | | |
| 47 | L-Bar, NM, Disposal Site | SOHIO – LBAR Site | 2 | UMTRCA Title II | 2004 |
| 48 | Lowman, ID, Disposal Site | Lowman Site | 2 | UMTRCA Title I | 1994 |
| 49 | Madison, IL, Site | Spectrulte Consortium, Inc. | 2 | FUSRAP | 2002 |
| 50 | Maxey Flats, KY, Disposal Site | Maxey Flats Disposal Site | 1 | CERCLA/RCRA | 2004 |
| 51 | Maybell, CO, Disposal Site | Maybell Mill Site | 2 | UMTRCA Title I | 1999 |
| 52 | Maybell West, CO, Disposal Site | UMETCO – Maybell Site 2 | 2 | UMTRCA Title II | 2010 |
| 53 | Mexican Hat, UT, Disposal Site | Mexican Hat Site | 2 | UMTRCA Title I | 1997 |
| 54 | Missouri University Research Reactor, MO, Site | Missouri University Research Reactor | 1 | Other | 2005 |
| 55 | Monticello, UT, Disposal and Processing Sites | Monticello Mill Site and Vicinity Properties | 3 | CERCLA/RCRA | 2002 |
| 56 | Monument Valley, AZ, Processing Site | Monument Valley Site | 2 | UMTRCA Title I | 1997 |
| 57 | Mound, OH, Site | Miamisburg Closure Project | 3 | CERCLA/RCRA | 2012 |
| 58 | Naturita, CO, Disposal/Processing Site | Naturita Site | 2 | UMTRCA Title I | 1999 |
| | | Naturita Mill | | | |
| 59 | New Brunswick, NJ, Site | New Brunswick Laboratory | 2 | FUSRAP | 2001 |
| 60 | New York, NY, Site | Baker and Williams Warehouses | 1 | FUSRAP | 1996 |
| 61 | Niagara Falls Storage Site Vicinity Properties, NY, Site ⁴ | Niagara Falls Storage Site Vicinity Properties | 2 | FUSRAP | 1992 |
| 62 | Oak Ridge, TN, Warehouses Site | Elza Gate | 1 | FUSRAP | 1994 |
| 63 | Oxford, OH, Site | Alba Craft Laboratory | 1 | FUSRAP | 1997 |
| 64 | Oxnard, CA, Site | Oxnard Site | 1 | Other | 2008 |
| 65 | Painesville, OH, Site | Painesville Site | 2 | FUSRAP | 2016 |
| 66 | Parkersburg, WV, Disposal Site | Parkersburg Site | 2 | Other | 1994 |
| 67 | Pinellas County, FL, Site | Pinellas STAR Center | 3 | CERCLA/RCRA | 2004 |
| 68 | Piqua, OH, Decommissioned Reactor Site | Piqua Nuclear Power Facility | 2 | D&D | 1998 |
| 69 | Rifle, CO, Disposal/Processing Site | Rifle (New) Mill | 2 | UMTRCA Title I | 1998 |
| | | Rifle (Old) Mill | | | |
| | | Estes Gulch Disposal Cell | | | |
| 70 | Rio Blanco, CO, Site | Rio Blanco | 2 | Other | 2008 |
| 71 | Riverton, WY, Processing Site | Riverton Site | 2 | UMTRCA Title I | 1991 |
| 72 | Rocky Flats, CO, Site | Rocky Flats Closure Project | 3 | CERCLA/RCRA | 2008 |
| 73 | Rulison, CO, Site | Rulison | 2 | Other | 2008 |
| 74 | Salmon, MS, Site | Salmon Site | 2 | Other | 2008 |
| 75 | Salt Lake City, UT, Disposal/Processing Site | South Clive Disposal Cell | 2 | UMTRCA Title I | 1997 |
| | | Salt Lake City Mill | | | |
| 76 | Seymour, CT, Site | Seymour Specialty Wire | 2 | FUSRAP | 1995 |
| 77 | Sherwood, WA, Disposal Site | WNI – Sherwood Site | 2 | UMTRCA Title II | 2001 |
| 78 | Shiprock, NM, Disposal Site | Shiprock Site | 3 | UMTRCA Title I | 1996 |
| 79 | Shirley Basin South, WY, Disposal Site | Petrochemicals - Shirley Basin 1 | 2 | UMTRCA Title II | 2005 |
| 80 | Shoal, NV, Site | Project Shoal | 2 | Other | 2008 |
| 81 | Site A / Plot M, IL, Decommissioned Reactor Site | Palos Forest (Site A/Plot M) Preserve | 2 | D&D | 1998 |
| Continued on next page | | | | | |

Appendix A: LM Site Count Listing (continued)

LM Site Count Listing Through January 31, 2016

| | LM Site Name | Pre-LM Name | Category ¹ | Regulatory Driver | Fiscal Year Transfer Date ² |
|--------------|--|--|-----------------------|-------------------|--|
| 82 | Slick Rock, CO, Disposal/Processing Site | Slick Rock (North Continent) Mill 1 | 2 | UMTRCA Title I | 1998 |
| | | Slick Rock (Union Carbide) Mill 2 | | | |
| | | Burro Canyon Disposal Cell | | | |
| 83 | Spook, WY, Disposal Site | Spook Site | 2 | UMTRCA Title I | 1993 |
| 84 | Springdale, PA, Site | C.H. Schnorr, C.H. Schnoor | 1 | FUSRAP | 1996 |
| 85 | Toledo, OH, Site | Baker Brothers, Inc. | 1 | FUSRAP | 2001 |
| 86 | Tonawanda North, NY, Site Unit 1 | Ashland #1 | 1 | FUSRAP | 2009 |
| 87 | Tonawanda North, NY, Site Unit 2 | Ashland #2 | 1 | FUSRAP | 2009 |
| 88 | Tuba City, AZ, Disposal Site | Tuba City Site | 3 | UMTRCA Title I | 1996 |
| 89 | Vallecitos Nuclear Center, CA, Site | General Electric Vallecitos Nuclear Center | 1 | Other | 2013 |
| 90 | Wayne, NJ, Site | Wayne Interim Storage Site | 1 | FUSRAP | 2007 |
| 91 | Weldon Spring, MO, Site | Weldon Spring Site | 3 | CERCLA/RCRA | 2003 |
| Total | | | | | 91 |

Notes:

¹ Category 1: Activities typically include records-related activities and stakeholder support.

Category 2: Activities typically include routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support.

Category 3: Activities typically include operation and maintenance of active remedial action systems, routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support.

² FUSRAP Pre-LM Names per USACE and Fiscal Year Transfer Dates per Federal Register notice of cleanup certification or DOE certification.

³ The Chariot, AK, Site has been reclassified from a category 1 to a category 2 site due to the need to close additional boreholes and cleanup of some petroleum contaminated soil at the site. The site will revert to a category 1 site once remediation is formally acknowledged as complete by the Alaska Department of Environmental Conservation.

⁴ A portion of Niagara Falls Storage Site VPs X' & H' have been referred from DOE to USACE for remediation.

Appendix B: Site Transition Schedule

Sites Planning to Transition in FY 2016

| | LM Site Name | Pre-LM Name | Category ¹ | Transferring Organization | Regulatory Driver |
|---|--|--------------------------------------|-----------------------|---------------------------|-------------------|
| 1 | Bear Creek, WY, Disposal Site ² | Anadarko Petroleum – Bear Creek Site | 2 | Private Licensee | UMTRCA Title II |
| | | | | Total | 1 |
| | | | | Cumulative | 92 |

Sites Planning to Transition in FY 2017

| | LM Site Name | Pre-LM Name | Category ¹ | Transferring Organization | Regulatory Driver |
|---|--------------------------------|------------------------------|-----------------------|---------------------------|-------------------|
| 1 | Colonie, NY, Site ³ | Colonie Interim Storage Site | 2 | USACE | FUSRAP |
| 2 | Tonawanda, NY, Site | Linde Air Products | 2 | USACE | FUSRAP |
| | | | | Total | 2 |
| | | | | Cumulative | 94 |

Sites Planning to Transition in FY 2018

| | LM Site Name | Pre-LM Name | Category ¹ | Transferring Organization | Regulatory Driver |
|---|---|---|-----------------------|---------------------------|-------------------|
| 1 | Attleboro, MA, Site | Shpack Landfill | 2 | USACE | FUSRAP |
| 2 | Gas Hills North, WY, Disposal Site ² | Pathfinder – Lucky Mc Site | 2 | Private Licensee | UMTRCA Title II |
| 3 | Panna Maria, TX, Disposal Site | Chevron – Panna Maria Site | 2 | Private Licensee | UMTRCA Title II |
| 4 | Ray Point, TX, Disposal Site | Exxon Mobil – Ray Point Site, Felder Site | 2 | Private Licensee | UMTRCA Title II |
| 5 | Uravan, CO, Disposal Site | UMETCO – Uravan Site | 2 | Private Licensee | UMTRCA Title II |
| 6 | Windsor, CT, Site | Combustion Engineering Site | 1 | USACE | FUSRAP |
| | | | | Total | 6 |
| | | | | Cumulative | 100 |

Sites Planning to Transition in FY 2019

| | LM Site Name | Pre-LM Name | Category ¹ | Transferring Organization | Regulatory Driver |
|---|-----------------------------------|--------------------------------|-----------------------|---------------------------|-------------------|
| 1 | Conquista, TX, Disposal Site | Conoco – Conquista Site | 2 | Private Licensee | UMTRCA Title II |
| 2 | Gas Hills East, WY, Disposal Site | UMETCO – Gas Hills Site | 2 | Private Licensee | UMTRCA Title II |
| 3 | Lisbon Valley, UT, Disposal Site | Rio Algom – Lisbon Valley Site | 2 | Private Licensee | UMTRCA Title II |
| 4 | Split Rock, WY, Disposal Site | WNI – Split Rock Site | 2 | Private Licensee | UMTRCA Title II |
| | | | | Total | 4 |
| | | | | Cumulative | 104 |

Sites Planning to Transition in FY 2020

| | LM Site Name | Pre-LM Name | Category ¹ | Transferring Organization | Regulatory Driver |
|---|--|--------------------------------------|-----------------------|---------------------------|-------------------|
| 1 | Ambrosia Lake West, NM, Disposal Site | Rio Algom – Ambrosia Lake Site 2 | 2 | Private Licensee | UMTRCA Title II |
| 2 | Durita, CO, Disposal Site | HECLA – Durita Site | 2 | Private Licensee | UMTRCA Title II |
| 3 | Energy Technology Engineering Center, CA, Site | Energy Technology Engineering Center | 1 | EM | Other |
| 4 | Highland, WY, Disposal Site | Exxon Mobil – Highland Site | 2 | Private Licensee | UMTRCA Title II |
| 5 | Middlesex South, NJ, Site ^{3, 5} | Middlesex Sampling Plant | 2 | USACE | FUSRAP |
| 6 | Sequoyah County, OK, Disposal Site | Sequoyah Fuels Site | 2 | Private Licensee | UMTRCA Title II |
| | | | | Total | 6 |
| | | | | Cumulative | 110 |

Sites Planning to Transition in FY 2021

| | LM Site Name | Pre-LM Name | Category ¹ | Transferring Organization | Regulatory Driver |
|---|---------------------|-------------------------|-----------------------|---------------------------|-------------------|
| 1 | Deepwater, NJ, Site | DuPont Chambers Works | 2 | USACE | FUSRAP |
| 2 | St. Louis, MO, Site | St. Louis Downtown Site | 3 | USACE | FUSRAP |
| | | | | Total | 2 |
| | | | | Cumulative | 112 |

Sites Planning to Transition in FY 2022

| | LM Site Name | Pre-LM Name | Category ¹ | Transferring Organization | Regulatory Driver |
|---|-------------------------|-------------------------------|-----------------------|---------------------------|-------------------|
| 1 | Curtis Bay, MD, Site | W.R. Grace at Curtis Bay Site | 2 | USACE | FUSRAP |
| 2 | Ford, WA, Disposal Site | Dawn – Ford Site | 2 | Private Licensee | UMTRCA Title II |
| 3 | Middletown, IA, Site | Iowa Army Ammunition Plant | 2 | USACE | FUSRAP |
| | | | | Total | 3 |
| | | | | Cumulative | 115 |

Appendix B: Site Transition Schedule (continued)

Sites Planning to Transition in FY 2023

There are no sites planned for transition in 2023

Sites Planning to Transition in FY 2024

| | LM Site Name | Pre-LM Name | Category ¹ | Transferring Organization | Regulatory Driver |
|---|--------------------------------|---------------------------------|-----------------------|---------------------------|-------------------|
| 1 | Grants, NM, Disposal Site | Homestake – Grants Site | 2 | Private Licensee | UMTRCA Title II |
| 2 | Maywood, NJ, Site ³ | Maywood Chemical Superfund Site | 2 | USACE | FUSRAP |
| | | | | Total | 2 |
| | | | | Cumulative | 117 |

Sites Planning to Transition in FY 2025

| | LM Site Name | Pre-LM Name | Category ¹ | Transferring Organization | Regulatory Driver |
|---|------------------------------------|--|-----------------------|---------------------------|-------------------|
| 1 | Church Rock, NM, Disposal Site | General Electric/United Nuclear Corporation – Church Rock Site | 2 | Private Licensee | UMTRCA Title II |
| 2 | Gas Hills West, WY, Disposal Site | ANC – Gas Hills Site | 2 | Private Licensee | UMTRCA Title II |
| 3 | Moab, UT, Disposal/Processing Site | Atlas – Moab Mill | 3 | EM | UMTRCA Title I |
| | | Crescent Junction Disposal Cell | | | |
| 4 | Tonawanda North, NY, Site Unit 3 | Seaway Industrial Park | 2 | USACE | FUSRAP |
| | | | | Total | 4 |
| | | | | Cumulative | 121 |

Sites Planning to Transition in FY 2026

There are no sites planned for transition in 2026

Sites Planning to Transition in FY 2027

| | LM Site Name | Pre-LM Name | Category ¹ | Transferring Organization | Regulatory Driver |
|---|--|--|-----------------------|---------------------------|-------------------|
| 1 | Berkeley, MO, Site | St. Louis Airport Site | 3 | USACE | FUSRAP |
| 2 | Berkeley, MO, Site Vicinity Properties | St. Louis Airport Site Vicinity Properties | 3 | USACE | FUSRAP |
| 3 | Hazelwood, MO, Site | Latty Avenue Properties | 3 | USACE | FUSRAP |
| 4 | Luckey, OH, Site | Luckey Site | 2 | USACE | FUSRAP |
| | | | | Total | 4 |
| | | | | Cumulative | 125 |

Sites Planning to Transition in FY 2028

There are no sites planned for transition in 2028

Sites Planning to Transition in FY 2029

There are no sites planned for transition in 2029

Sites Planning to Transition in FY 2030

| | LM Site Name | Pre-LM Name | Category ¹ | Transferring Organization | Regulatory Driver |
|---|---|--|-----------------------|---------------------------|-------------------|
| 1 | Carnegie, PA, Site ⁴ | Superior Steel | 2 | USACE | FUSRAP |
| 2 | Cleveland, OH, Site ⁴ | Harshaw Chemical Company | 2 | USACE | FUSRAP |
| 3 | Ft. Wayne, IN, Site ⁴ | Joslyn Manufacturing and Supply Company | 2 | USACE | FUSRAP |
| 4 | Hicksville, NY, Site ⁴ | Sylvania Corning Plant | 2 | USACE | FUSRAP |
| 5 | Lockport, NY, Site ⁴ | Guterl Specialty Steel | 2 | USACE | FUSRAP |
| 6 | Middlesex North, NJ, Site ^{4,5} | Middlesex Municipal Landfill | 2 | USACE | FUSRAP |
| 7 | Niagara Falls Storage Site, NY, Site ^{3,4} | Niagara Falls Storage Site (includes VPs E, E Prime and G) | 2 | USACE | FUSRAP |
| 8 | Parks Township, PA, Site ⁴ | Shallow Land Disposal Area | 2 | USACE | FUSRAP |
| 9 | Tonawanda, NY, Landfill Site ⁴ | Tonawanda Landfill | 2 | USACE | FUSRAP |
| | | | | Total | 9 |
| | | | | Cumulative | 134 |

Appendix B: Site Transition Schedule (continued)

Sites Planning to Transition in FY 2031 - 2050

| | LM Site Name | Pre-LM Name | Category ¹ | Transferring Organization | Regulatory Driver | Planned Transfer |
|----|---|------------------------------------|-----------------------|---------------------------|-------------------|------------------|
| 1 | West Valley, NY, Site | West Valley Demonstration Project | 2 | EM | CERCLA/RCRA | 2040 |
| 2 | Portsmouth, OH, Site | Portsmouth Gaseous Diffusion Plant | 2 | EM | CERCLA/RCRA | 2044 |
| 3 | Canon City, CO, Disposal Site | Cotter – Canon City Site | 2 | Private Licensee | UMTRCA Title II | 2047 |
| 4 | Paducah, KY, Site | Paducah Gaseous Diffusion Plant | 2 | EM | CERCLA/RCRA | 2047 |
| 5 | Salt Lake City 11e.(2), UT, Disposal Site | 11e(2) Disposal Site | 2 | Private Licensee | UMTRCA Title II | 2047 |
| 6 | Shirley Basin North, WY, Disposal Site | Pathfinder – Shirley Basin Site 2 | 2 | Private Licensee | UMTRCA Title II | 2047 |
| 7 | Shootaring Canyon, UT, Disposal Site | Plateau Shootaring Canyon Site | 2 | Private Licensee | UMTRCA Title II | 2047 |
| 8 | Sweetwater, WY, Disposal Site | Kennecott Sweetwater Site | 2 | Private Licensee | UMTRCA Title II | 2047 |
| 9 | White Mesa, UT, Disposal Site | EFN – White Mesa Site | 2 | Private Licensee | UMTRCA Title II | 2047 |
| 10 | Andrews 11e.(2), TX, Disposal Site | WCS Federal Waste Facility | 2 | Private Licensee | UMTRCA Title II | 2050 |
| | | | | Total | 10 | |
| | | | | Cumulative | 144 | |

FUSRAP Sites Referred from DOE to USACE - Not Currently Designated by USACE For Active Status

| | LM Site Name | Pre-LM Name | Category ¹ | Transferring Organization | Regulatory Driver | Planned Transfer |
|---|---|--|-----------------------|---------------------------|-------------------|------------------|
| 1 | Brooklyn, NY, Site ⁴ | Wolff-Alport Chemical Company | 1 | USACE | FUSRAP | 2030 |
| 2 | Niagara Falls Storage Site Vicinity Properties, NY, Site ⁴ | Niagara Falls Storage Site Vicinity Properties H and X | 1 | USACE | FUSRAP | 2030 |
| 3 | Painesville Vicinity Properties, OH, Site | Painesville VP Ohio Sites | 1 | USACE | FUSRAP | 2030 |
| 4 | Staten Island, NY, Site ⁴ | Staten Island Warehouse | 1 | USACE | FUSRAP | 2030 |

¹ Category 1: Activities typically include records-related activities and stakeholder support.

Category 2: Activities typically include routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support.

Category 3: Activities typically include operation and maintenance of active remedial action systems, routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support.

² The fee land and wells for the Bear Creek and Gas Hills North, WY Sites have transferred to DOE, but the Title II private license has not been terminated. These sites will formally transfer to DOE after NRC concurs that remedial action has been completed, and accepts the site-specific long-term surveillance plan. After which, the sites will be administered under the NRC general license for long-term care.

³ The DOE Office of Legacy Management is the owner of record at the following FUSRAP sites: Colonie, NY; Maywood, NJ; Middlesex South, NJ; and Niagara Falls, NY. LM shall accept responsibility for all federally-owned real property and interests therein, acquired by USACE for FUSRAP execution at the time of site closeout (i.e., public declaration of completion). Long-term surveillance and maintenance responsibilities shall transfer to LM two years after site closeout. Fiscal year transition date to LM is triggered by the site closeout event.

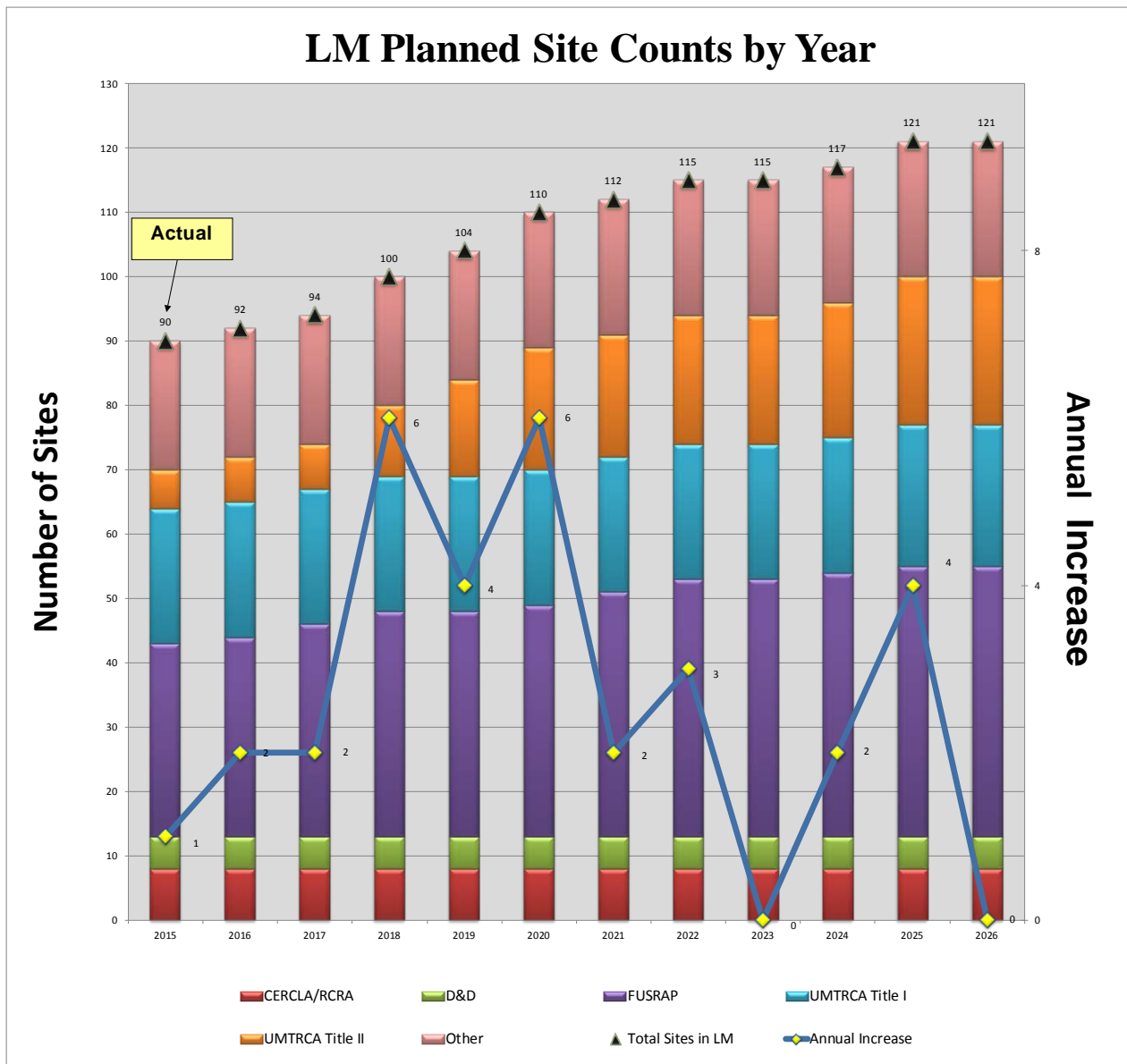
⁴ Completion date assumed to be FY2030 for out-year planning. Actual remedial action completion date not yet scheduled by USACE.

⁵ Middlesex (Sampling plant and Municipal Landfill) are considered to be one site by the USACE whereas LM considers them two sites.

Appendix C: Planned Site Count by Year

BY END OF FISCAL YEAR

| | Actual | Planned | Planned | Planned | Planned | Planned | Planned | Planned | Planned | Planned | Planned | Planned |
|------------------------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Site | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |
| CERCLA/RCRA | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| D&D | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| FUSRAP | 30 | 31 | 33 | 35 | 35 | 36 | 38 | 40 | 40 | 41 | 42 | 42 |
| UMTRCA Title I | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 22 | 22 |
| UMTRCA Title II | 6 | 7 | 7 | 11 | 15 | 19 | 19 | 20 | 20 | 21 | 23 | 23 |
| Other | 20 | 20 | 20 | 20 | 20 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| Total | 90 | 92 | 94 | 100 | 104 | 110 | 112 | 115 | 115 | 117 | 121 | 121 |
| Annual Increase | 1 | 2 | 2 | 6 | 4 | 6 | 2 | 3 | 0 | 2 | 4 | 0 |



Appendix D: Current Site Count by State

State Site Counts as of January 31, 2016

| | State | CAT 1 | CAT 2 | CAT 3 | # of Sites |
|----|----------------------|----------|----------|----------|------------|
| 1 | Alaska | | 2 | | 2 |
| 2 | Arizona ¹ | | 1 | 1 | 2 |
| 3 | California | 5 | 2 | | 7 |
| 4 | Colorado | | 9 | 3 | 12 |
| 5 | Connecticut | | 1 | | 1 |
| 6 | Florida | | | 1 | 1 |
| 7 | Idaho | | 1 | | 1 |
| 8 | Illinois | 2 | 3 | | 5 |
| 9 | Kentucky | 1 | | | 1 |
| 10 | Massachusetts | 2 | | | 2 |
| 11 | Michigan | | 1 | | 1 |
| 12 | Mississippi | | 1 | | 1 |
| 13 | Missouri | 1 | | 1 | 2 |
| 14 | Nebraska | | 1 | | 1 |
| 15 | Nevada | | 2 | | 2 |

| | State | CAT 1 | CAT 2 | CAT 3 | # of Sites |
|----|-------------------------|-----------|-----------|-----------|------------|
| 16 | New Jersey | 2 | 1 | | 3 |
| 17 | New Mexico ² | 4 | 5 | 1 | 10 |
| 18 | New York | 4 | 1 | | 5 |
| 19 | Ohio | 6 | 3 | 2 | 11 |
| 20 | Oregon | | 2 | | 2 |
| 21 | Pennsylvania | 1 | 3 | | 4 |
| 22 | South Dakota | | 1 | | 1 |
| 23 | Tennessee | 1 | | | 1 |
| 24 | Texas | | 1 | | 1 |
| 25 | Utah ³ | | 3 | 1 | 4 |
| 26 | Washington ⁴ | | 1 | | 1 |
| 27 | West Virginia | | 1 | | 1 |
| 28 | Wyoming | | 3 | | 3 |
| | Puerto Rico | 2 | 1 | | 3 |
| | TOTAL | 31 | 50 | 10 | 91 |

Category 1: Activities typically include records-related activities and stakeholder support.

Category 2: Activities typically include routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support.

Category 3: Activities typically include operation and maintenance of active remedial action systems, routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support.

Sites Located on Tribal Land

¹ Monument Valley, AZ, Site resides on Navajo Tribal Land. Tuba City, AZ, Site resides on Navajo and Hopi Tribal Land.

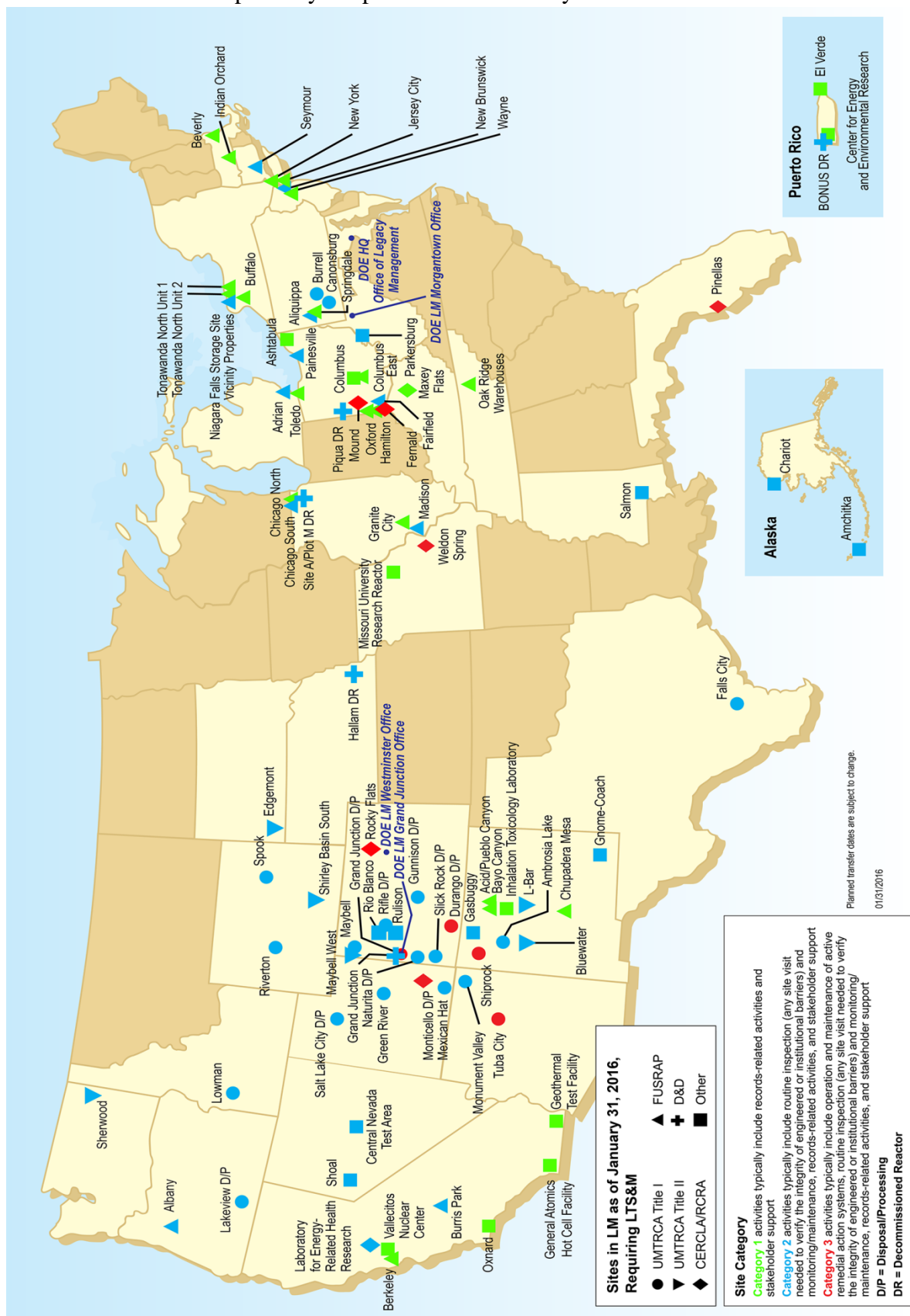
² Shiprock, NM, Site resides on Navajo Tribal Land.

³ Mexican Hat, UT, Site resides on Navajo Tribal Land.

⁴ Sherwood, WA, Site resides on Spokane Tribal Land.

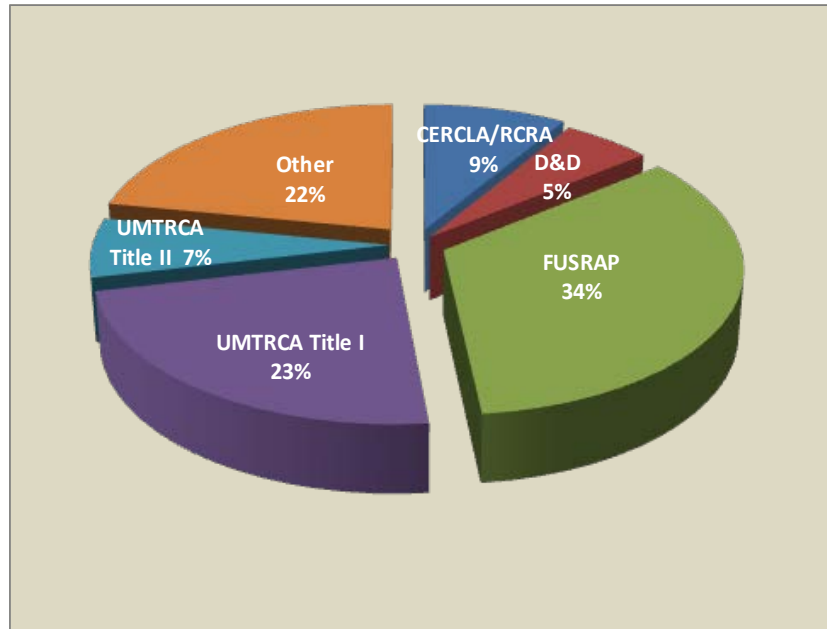
Appendix E: LM Site Map – as of January 31, 2016

Note: Map is only a representation and may not be to actual scale.

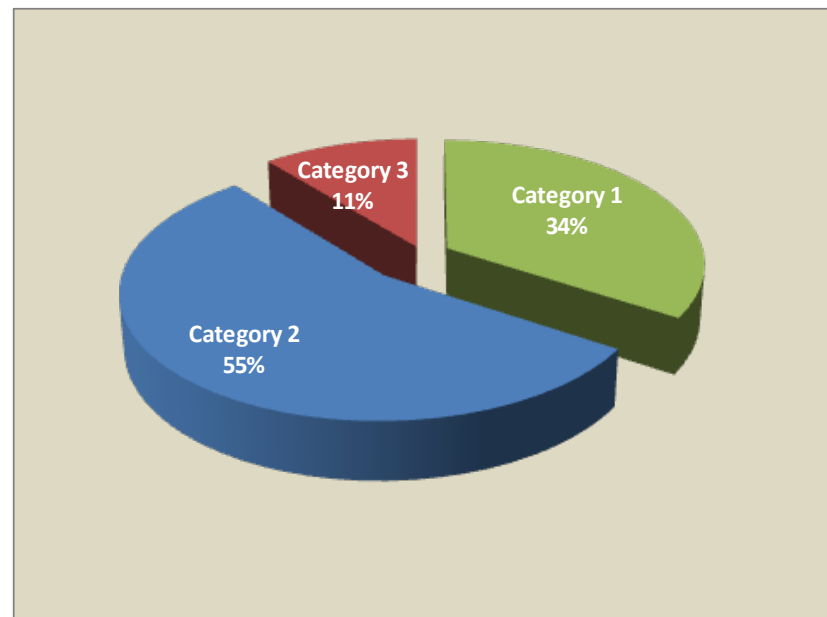


Appendix F: Site Count by Regulatory Type and Category

| Type | Actual Through January 2016 |
|-----------------|--------------------------------------|
| CERCLA/RCRA | 8 |
| D&D | 5 |
| FUSRAP | 31 |
| UMTRCA Title I | 21 |
| UMTRCA Title II | 6 |
| Other | 20 |
| TOTAL | 91 |



| Sites by Category | Actual Through January 2016 |
|----------------------|--------------------------------------|
| Category 1 | 31 |
| Category 2 | 50 |
| Category 3 | 10 |
| TOTAL | 91 |



Category 1: Activities typically include records-related activities and stakeholder support.

Category 2: Activities typically include routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support.

Category 3: Activities typically include operation and maintenance of active remedial action systems, routine inspection (any site visit needed to verify the integrity of engineered or institutional barriers) and monitoring/maintenance, records-related activities, and stakeholder support.

Appendix G: Site Information Summary

LM-20 Office of Site Operations Site Information Summary **as of January 31, 2016**¹

| Type of Site | Number of Sites | | Number of DOE Wells Associated with Site | | Number of Disposal Cells, Landfills, and other Impoundments ² | | Institutional Controls ³ (Yes or No) | |
|----------------------------|-----------------|-----------|--|--------------|--|-----------|---|---------------------------|
| | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 |
| CERCLA/RCRA Sites | 8 | 8 | 980 | 964 | 5 | 5 | Yes (7 sites) | Yes (7 sites) |
| D&D Sites | 5 | 5 | 52 | 52 | 3 | 3 | Yes (5 sites) | Yes (5 sites) |
| FUSRAP Sites | 30 | 30 | 0 | 0 | 0 | 0 | Yes (2 sites) | Yes (2 sites) |
| UMTRCA Title I Sites | 21 | 21 | 764 | 739 | 19 | 19 | Yes (21 sites) | Yes (21 sites) |
| UMTRCA Title II Sites | 6 | 6 | 50 | 50 | 7 | 7 | Yes (6 sites) | Yes (6 sites) |
| Other Sites | 20 | 20 | 79 | 79 | 10 | 10 | Yes (10 sites) | Yes (9 sites) |
| TOTALS | 90 | 90 | 1,925 | 1,884 | 44 | 44 | Yes (51 sites) | Yes (50 sites) |
| INCREASE/(DECREASE) | | 0 | | -41 | | 0 | | |

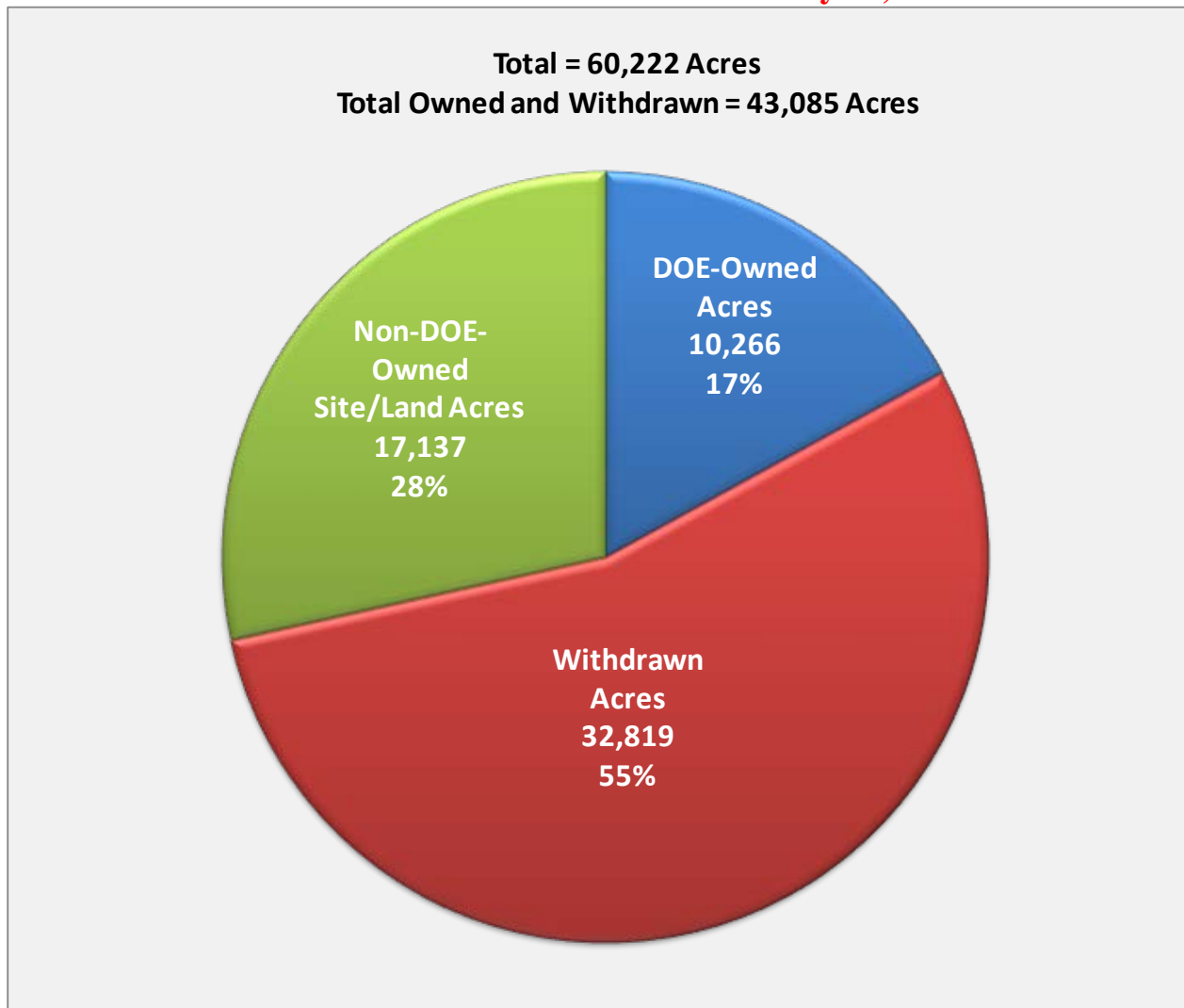
¹ Comparison of last reporting period (January 31, 2015) to data through December 31, 2015.

² Disposal Cells/Systems planned are counted individually; may be counted as systems upon transition.

³ Calibration Pits and Pads is excluded for 2015, but was included for 2014, resulting in the decreased total for Other Sites.

Appendix H: Land Having Legacy Management

Sites with LTS&M Activities – as of January 31, 2016



DOE-Owned (Fee Simple)

Withdrawn (Includes 25,137 acres withdrawn for uranium/vanadium **mineral development and** mining, of which roughly 700 acres will be **affected by DOE's mineral-leasing activities**. BLM manages all other surface uses **of these lands**.)

Non-DOE-Owned Site/Land with Rights to Conduct Activities (e.g., surface/soil or groundwater restrictions, environmental monitoring, maintenance, inspections)

Note: The fee land and wells for the Bear Creek and Gas Hills North, WY, sites have transferred to DOE, but the Title II private license has not been terminated. These sites are not yet under the DOE general license. LM is the owner of record at the following FUSRAP sites: Colonie, NY; Maywood, NJ; Middlesex South, NJ; and Niagara Falls Storage Site, NY. The USACE is responsible for protectiveness at these sites until remedial action is completed and LM assumes LTS&M responsibility for the sites.

Appendix I: Acronyms

| | |
|-------------------|---|
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| D&D | Decontamination and Decommissioning |
| Department or DOE | U.S. Department of Energy |
| EM | Office of Environmental Management |
| FUSRAP | Formerly Utilized Sites Remedial Action Program |
| FY | Fiscal Year |
| ICs | Institutional Controls |
| LM | Office of Legacy Management |
| LTS&M | Long-Term Surveillance and Maintenance |
| NRC | U.S. Nuclear Regulatory Commission |
| RCRA | Resource Conservation and Recovery Act |
| UMTRCA | Uranium Mill Tailings Radiation Control Act |
| USACE | U.S. Army Corps of Engineers |
| VPs | Vicinity Properties |

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Site Management Guide (Blue Book)

January 2016



U.S. DEPARTMENT OF
ENERGY

Legacy
Management