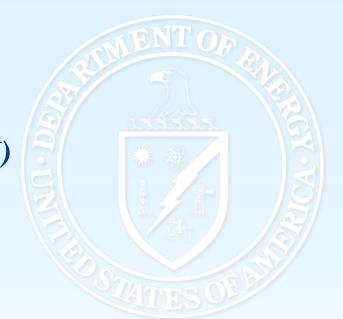
U.S. Department of Energy (DOE)
Office of Legacy Management (LM)

Our Future Mission: What Will the Program Look Like in 10 Years?

Presenter: April Gil, PhD
Environmental Team Leader
Site Manager, DOE LM Grand Junction Office, Colorado

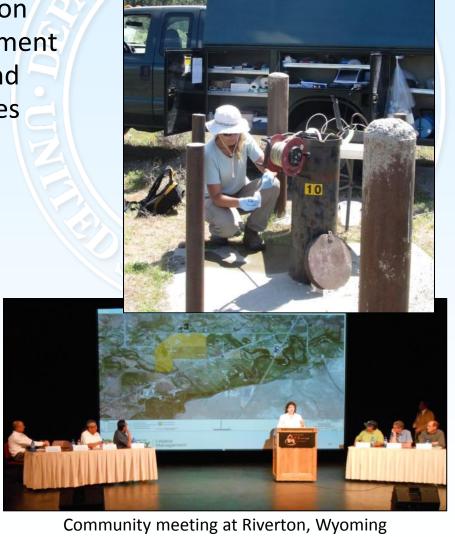
Waste Management 2014 • March 4, 2014





LM's Current Mission

- Responsible for ensuring protection of human health and the environment at sites contaminated by WWII and Cold War defense-related activities
 - Performing inspections
 - Monitoring site conditions
 - Implementing and maintaining institutional controls
 - Working with stakeholders
 - Conducting operation and maintenance activities



Sherwood, Washington, Disposal Site

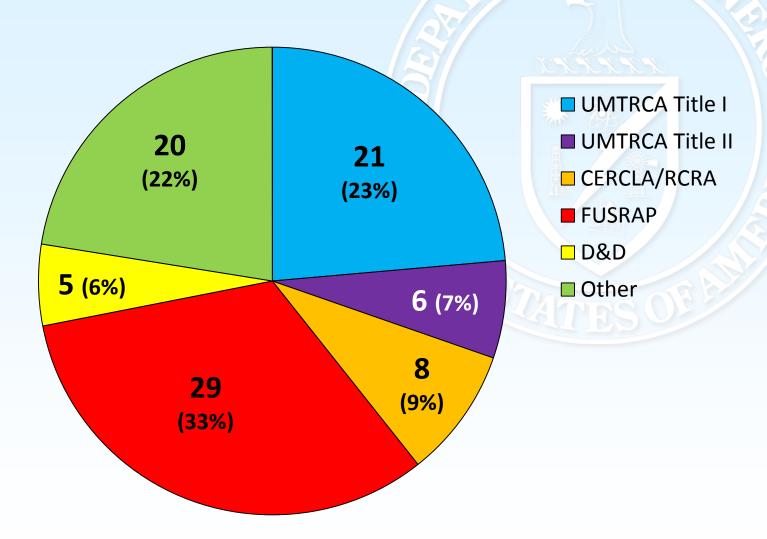


Types of Sites Managed by LM

- UMTRCA Title I Uranium Mill Tailing Radiation Control Act (1978): inactive uranium ore processing sites
- UMTRCA Title II Uranium Mill Tailing Radiation Control Act; sites that were actively processing uranium ore in 1978
- CERCLA/RCRA Comprehensive Environmental Response,
 Compensation, and Liability Ace/Resource Conservation and
 Recovery Act
- **FUSRAP** Formerly Utilized Sites Remedial Action Program
- **D&D** Decontamination and Decommissioning
- Other Mostly Nevada Offsites or records-only sites



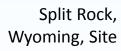
Types of Sites Currently Managed by LM





LM's Future

- 34 new sites are expected to transition to LM through fiscal year 2023
 - UMTRCA Title II sites 16
 - FUSRAP sites 17
 - DOE Office of Environmental Management (EM) site – 1











LM's Future: Scope Will Increase

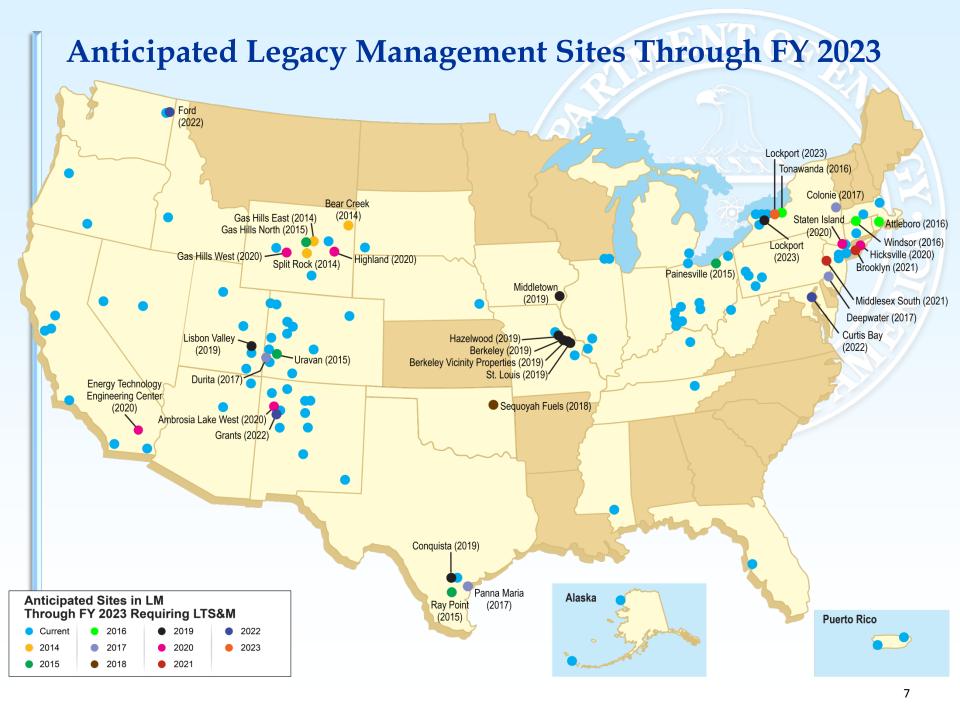
- An increased scope comes with additional responsibilities and requirements
 - Additional evaluation of sites with groundwater contamination
 - Final resolution for several groundwater remedies
 - Learn from the past:
 - Reduce likelihood of future problems by raising due diligence level during site transition for UMTRCA Title II sites

Pinellas County, Florida, Site





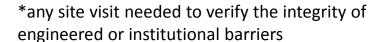
Rocky Flats, Colorado, Site



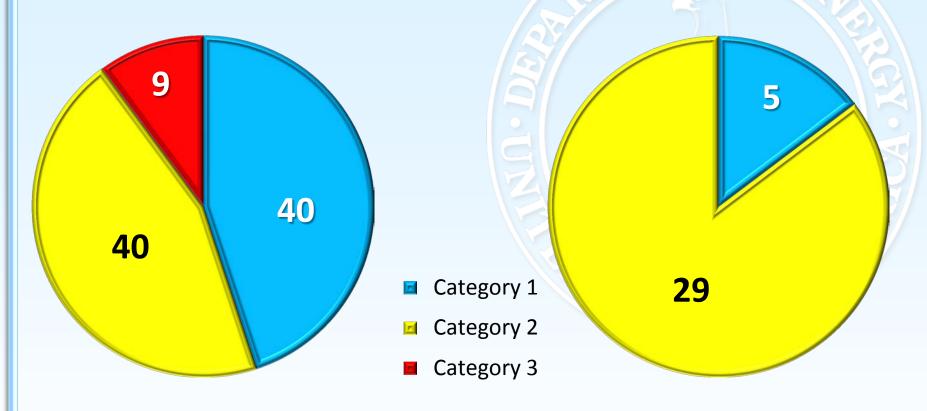
LM Site Categories

- All LM sites fall under one of three categories:
 - Category 1
 - Records-related activities
 - Stakeholder support
 - Category 2
 - Routine inspection*
 - Monitoring/maintenance
 - Records-related activities
 - Stakeholder support
 - Category 3
 - Operation and maintenance of active remedial action systems
 - Routine inspection*
 - Monitoring/maintenance
 - Records-related activities
 - Stakeholder support





LM's Responsibilities Will Continue to Grow



Current sites by category

New sites by category in next 10 years



Future Responsibilities

- New UMTRCA Title II sites require
 - Inspections, maintenance, and monitoring
 - Records-related activities
 - Many have contaminated groundwater
 - Stakeholder concerns
- FUSRAP sites will also require
 - Monitoring
 - Institutional controls
 - Inspections
 - Records-related activities
 - Stakeholder support
- The EM site will only require
 - Records-related activities
 - Stakeholder support



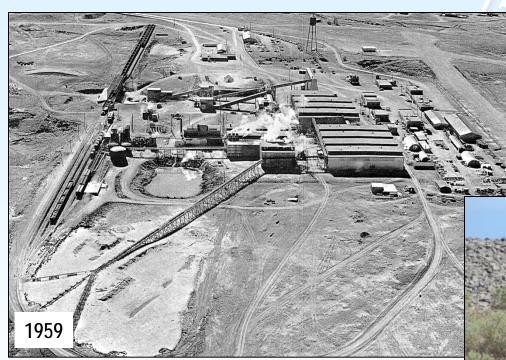
Maybell West, Colorado, Disposal Site inspection



Riverton, Wyoming, Disposal Site institutional control

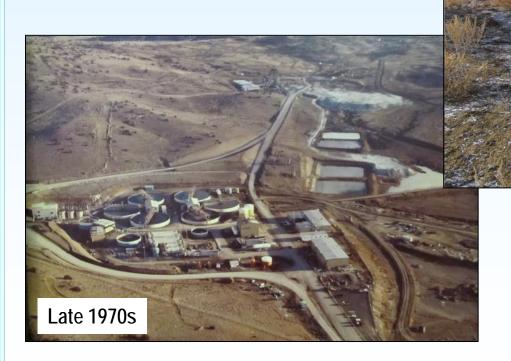


Typical UMTRCA Title II Sites: Bluewater, New Mexico, Disposal Site





Typical UMTRCA Title II Sites: L-Bar, New Mexico, Disposal Site





2013

Typical UMTRCA Title II Sites: Sherwood, Washington, Disposal Site





Typical FUSRAP Sites



Bayo Canyon, New Mexico, Site



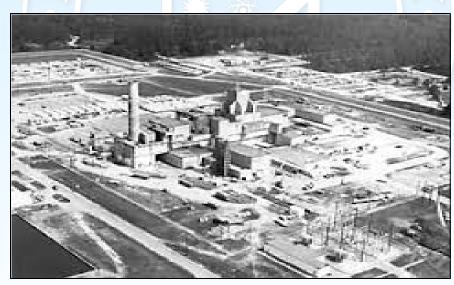
Staten Island, New York, Site

Ongoing Mission Sites

Potential for addition of sites with ongoing monitoring and maintenance requirements



Hanford, Washington, Site



Savannah River, South Carolina, Site



New Developments

- Emerging opportunities
 - Work at ongoing mission sites
 - Coordinate with EM on future sites
 - Collaborate with other organizations on science and technology
 - Continue to streamline operation and maintenance activities
 - Workforce succession planning is critical
 - Internship program
 - Career-ladder federal positions
 - Challenging careers with considerable responsibility and decision-making authority



Amchitka, Alaska, Site



Lakeview, Oregon, Site

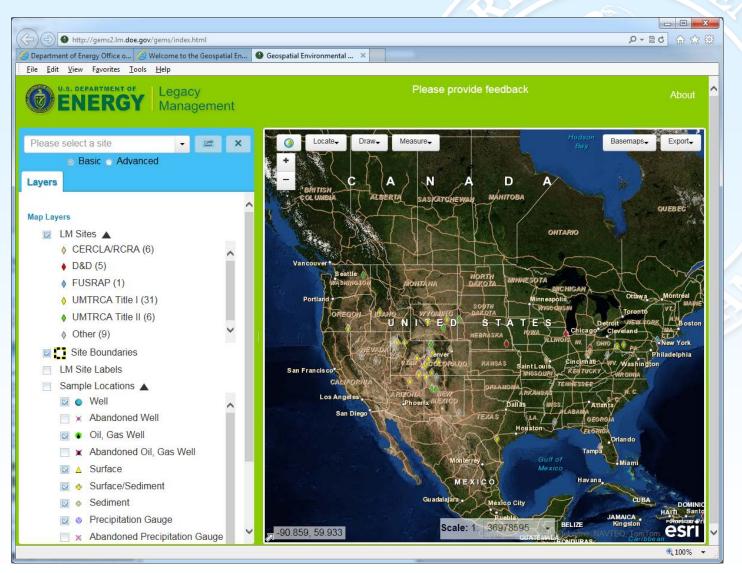


Geospatial Information System

- LM is developing a Next Generation Geospatial Information System (NextGen) that will eventually replace its current Geospatial Environmental Mapping System (GEMS)
 - Better access to data
 - More evaluation tools
 - Improved interface with stakeholders



GEMS 2.0





LM's Records Responsibilities

- National Archives and Records Administration certified records storage system
 - State of the art facility in Morgantown,
 West Virginia
 - Provide support for compensation requests
 - Energy Employees Occupational Injury Compensation Program
 - Radiation Exposure Compensation Program
 - 70 years of records are maintained by LM
- LM preserved Yucca Mountain Project (YMP) records
 - Records Information System
 - Licensing Support Network



- of YMP records arrives at the Legacy Management Business Center
- Yucca Mountain
- Reviewing YMP records



Institutional Knowledge

LM will:

- Continue to protect and preserve institutional knowledge
- Build on documented knowledge from previous site transitions
- Expand a tracking system for institutional controls
- Continue to document site knowledge and potential issues
- Develop site history documents for staff transitions
- Plan for long-term responsibilities
 - Succession planning
 - Work with local universities
 - Continue to maintain records for our sites, decisions, and compliance





Interns sampling soils at the Monument Valley, Arizona, Processing Site







