

# ANNUAL HISTORICAL SUMMARY

MANAGING TODAY'S CHANGE, PROTECTING TOMORROW'S FUTURE



U.S. DEPARTMENT OF  
**ENERGY**

Legacy  
Management

# 2022



[www.energy.gov/lm](http://www.energy.gov/lm)



## Cover/Inside Cover Photo

**Cover:** A DRUM team member approaching an abandoned uranium mine to survey its features.

**Inside cover:** LM staff and delegates from the 2022 International Atomic Energy Agency Coordination Group for Uranium Legacy Sites technical meeting visit the Atomic Legacy Cabin at the LM Field Support Center, in Grand Junction, Colorado, in August 2022.

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## PURPOSE OF THIS DOCUMENT

This document records significant accomplishments achieved by the U.S. Department of Energy Office of Legacy Management during calendar year 2022. Any data reflected by the fiscal year (as opposed to the calendar year) is noted throughout the document. Budget information, identified within the document, reflects the fiscal year, which began on Oct. 1, 2021, and ended Sept. 30, 2022.

Annual historical summaries highlight a selection of the many activities performed by LM during calendar years. They also offer information about recent work conducted by LM. Future historians and researchers can use the summaries to place the activities of LM into larger contexts, such as the history of DOE.

## OVERVIEW

DOE has responsibilities associated with the legacy of contamination from World War II and the Cold War. DOE established LM on Dec. 15, 2003, to fulfill the Department's post-closure responsibilities by providing long-term surveillance and maintenance, records management, benefits continuity, property management, and land use planning. At the end of calendar year 2022, LM managed 101 legacy sites in 29 states and Puerto Rico.

In addition to stewardship responsibilities at legacy sites, LM maintains five radiometric calibration facilities and manages the Uranium Leasing Program, and the Defense-Related Uranium

Mines program. LM also incorporates improvements in scientific understanding and technology applications through the Applied Studies and Technology program and manages the LM Business Center Records Storage Facility, which is a certified National Archives and Records Administration repository.

LM worked with primary support contractor RSI EnTech LLC during 2022.



LM UMTRCA Program Manager Mark Kautsky provides information on an aerial survey at a public affairs kiosk in Nizhoni Park, in Shiprock, New Mexico, on the Navajo Nation.

## COVID-19

LM continued its response to the COVID-19 pandemic and **ensured its sites remained protective of human health and environment** by updating its COVID-19 Response and Recovery Plan and COVID-19 Field and Office Job Safety Analyses, based on changes in federal, state, and local guidance. LM modified its telework posture as COVID-19 conditions changed while maintaining coordination with regulators and stakeholders.

# LM MISSION AND VISION

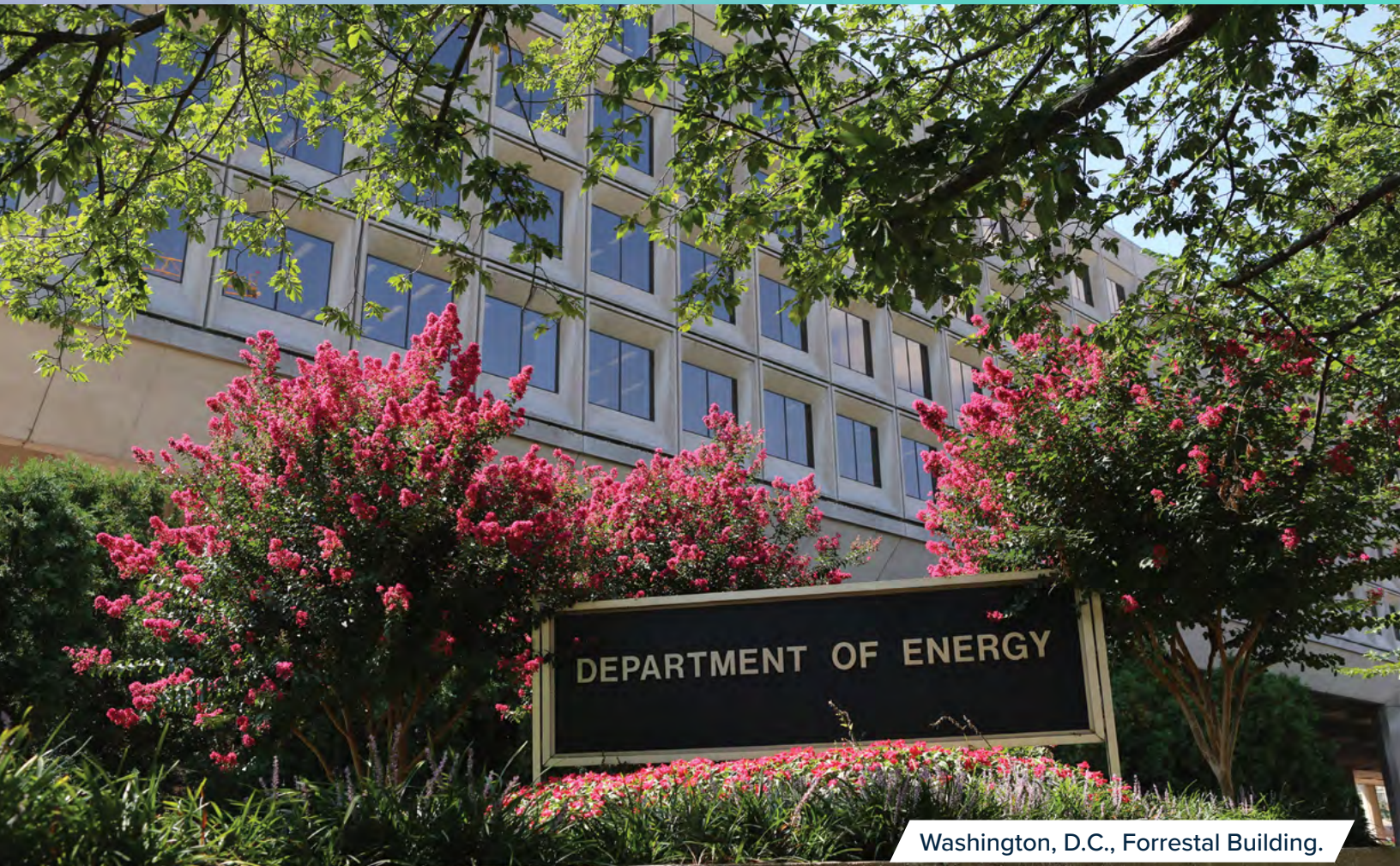
## Vision

Our vision is to ensure:

- The Department's legacy workforce, communities, and the environment are well protected and served.
- Consistent and effective long-term surveillance and maintenance protects people and the environment.
- The public has easy access to relevant records and information.
- Because we work together, stakeholders, tribal nations, and state and local governments trust us.
- The Department safeguards former contractor workforce retirement benefits through prudent, timely funding.
- People are treated fairly and have meaningful involvement.

## Mission Statement

Fulfill the Department of Energy's post-closure responsibilities and ensure the future protection of human health and the environment.



Washington, D.C., Forrester Building.

# LM GOALS AND OBJECTIVES

## Goal 1

### Protect Human Health and the Environment

- Comply with environmental laws and regulations related to radioactive and hazardous waste and materials.
- Improve cost effectiveness while reducing post-closure-related health risks.
- Improve the long-term sustainability of environmental remedies.
- Address the environmental legacy of defense-related uranium mining and milling sites.
- Transition new sites to LM in a safe, timely, and cost-effective manner.



## Goal 2

### Preserve, Protect, and Share Records and Information

- Protect and maintain legacy records and information.
- Make technology solutions more efficient, relevant, and accessible to the LM stakeholder and user communities.
- Preserve the Yucca Mountain Project science and information.



## Goal 3

### Safeguard Former Contractor Workers' Retirement Benefits

- Ensure prudent funding of former contractor workers' retirement benefits.
- Shelter former contractor workers' retirement benefits from risks.



## Goal 4

### Sustainably Manage and Optimize the Use of Land and Assets

- Enhance sustainable environmental performance for facilities and personal property and address severe weather events.
- Optimize the use of federal lands and properties.
- Transfer excess government real and personal property.



## Goal 5

### Sustain Management Excellence

- Ensure LM sites are safe and secure for federal and contractor personnel, regulators, and the general public.
- Develop and maintain high standards for planning, budgeting, acquisition, and program and project management.
- Sustain a talented, diverse, inclusive, and performance-driven workforce.
- Improve the quality, efficiency, and effectiveness of site management and business support actions.



## Goal 6

### Engage the Public, Governments, and Interested Parties

- Engage the public in our program, project, and site activities.
- Work effectively with local, state, and federal partners; nonprofit organizations; international organizations; and other countries.
- Consult, collaborate, and partner with tribal nations.
- Support development of the Manhattan Project National Historical Park.
- Implement Executive Order 12898, *Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations*, within LM.





## Comprehensive Environmental Response, Compensation, and Liability Act and Resource Conservation and Recovery Act

In January, LM briefed the **Fernald Natural Resource Trustees** on implementation of the first-year results of the Draft Final Natural Resource Management Plan lessons learned and recommended improvements to the program.

In June, LM met with the Colorado Department of Public Health and Environment and U.S. Environmental Protection Agency Region 8 to address a reportable condition at the **Rocky Flats Site, Colorado**, concerning water quality.

- LM agreed to add vegetation to a 40-acre hillside area to slow rainwater runoff and increase absorption. LM will conduct the revegetation for a five-year trial period.

In August, LM began implementing National Laboratory Network collaboration recommendations for the **Weldon Spring Site, Missouri**, by conducting a high-purge-volume sampling event at on-site wells.

In September, LM completed its Five-Year Review of the CERCLA remedy at the **Rocky Flats Site**.

- The purpose of the five-year review is to assess the performance of the CERCLA remedy in the Central Operable Unit and determine if the remedy remains protective of human health and the environment.
- LM, as the lead agency, conducted the review with assistance from EPA and CDPHE. The review is available on the LM Rocky Flats Site webpage at [lmpublicsearch.lm.doe.gov/lmsites/s35622\\_rfs\\_5th\\_fyr\\_signed\\_wepa%20letter.pdf](https://lmpublicsearch.lm.doe.gov/lmsites/s35622_rfs_5th_fyr_signed_wepa%20letter.pdf).

In October, LM repaired deteriorating stairs at the **Weldon Spring Site** disposal cell, in St. Charles County, Missouri. The top of the disposal cell is a popular attraction.

In October, LM and the National Nuclear Security Administration began preliminary planning for the transfer of the **Kansas City Plant** from NNSA to LM for long-term stewardship. KCP is projected to transfer to LM in FY 2026.

In November, LM replaced solar panels, batteries, controllers, and other materials on a solar-powered treatment system at the **Rocky Flats Site** and donated the old equipment to a nonprofit organization.

- The Solar Ponds Plume Treatment System upgrade utilized U.S.-made solar panels robust enough to charge an electric vehicle while also maintaining system power needs. It can run without charging for a minimum of three days if skies are cloudy.
- LM repurposed and donated components and materials from the previous system to **Grid Alternatives**, which provides energy access programs to households and solar education training to individuals interested in the field.

In December, LM posted the proposed plan for public comment to amend the Operable Unit-1 Record of Decision for the Mound, Ohio, Site and held a public comment meeting.



Weldon Spring Site, Missouri.



Rocky Flats Site, Colorado.

## Formerly Utilized Sites Remedial Action Program

In February, LM Director Carmelo Melendez presented awards to the U.S. Army Corps of Engineers Pittsburgh District's Shallow Land Disposal Area FUSRAP project team during a visit to the project area in Apollo, Pennsylvania.

- The awards recognized the team members for their performance and extraordinary commitment to FUSRAP.

In March, LM and USACE began transition planning for the **Tonawanda Landfill, New York, FUSRAP site**.

- Under FUSRAP, USACE transfers sites to LM for long-term stewardship after completing cleanup.
- The site is anticipated to transfer to LM in FY 2024.

In June, LM posted the **FUSRAP** April 2022 Stakeholder Report to its website.

- The report provided important program updates about work accomplished during the past five years, increased awareness of FUSRAP activities, and preserved essential program knowledge.
- The report is available at [www.energy.gov/lm/fusrap-program-further-resources](http://www.energy.gov/lm/fusrap-program-further-resources).

In July, USACE hosted LM's team during the annual **FUSRAP** USACE active sites tour of five sites in USACE's North Atlantic Division.

- The tour allowed LM to engage with stakeholders and identify impacts to life-cycle costs at sites transitioning to LM.
- The group toured sites in Hicksville, New York; Maywood, New Jersey; Deepwater, New Jersey; and Middlesex, New Jersey.
- USACE also provided a presentation on their site in Curtis Bay, Maryland.

In November, LM met with the New York State Department of Environmental Conservation District 9 office to establish future long-term stewardship goals for the **Tonawanda Landfill, New York, Site**.



LM Director Carmelo Melendez presents a plaque to Tim Herald, **USACE SLDA** project manager, thanking the SLDA project delivery team for its “extraordinary commitment” to **FUSRAP**. Melendez presented the plaque during his visit to the Pittsburgh District on Feb. 16.



Maywood, New Jersey.



## Uranium Mill Tailings Radiation Control Act

LM's Aviation Program completed baseline or follow-up aerial surveys at 12 **UMTRCA sites**. Aviation staff collected light imaging detection and ranging imagery and aerial photographs during the surveys.

- LM conducts aerial surveys using small, unmanned aircrafts, or drones, to capture high-quality images, used to detect physical changes to sites, to monitor and plan for future work.
- Prior to the flights, LM notified nearby residents about flight times and the reason for the aerial survey.

In March, LM completed interim repairs of the evaporation pond at the **Shiprock, New Mexico, Site** to allow for continued groundwater treatment while a long-term remedy is developed.

In March, LM and the New Mexico Environment Department successfully executed an assistance agreement with its Ground Water Quality Bureau to provide state regulatory and technical support for **New Mexico UMTRCA sites** for five years.

In August, LM installed monitoring wells for a hydrology project at the **Shiprock, New Mexico, Disposal Site**.

- The project helps LM understand subsurface hydrogeology and collects data on groundwater level, soil, and water chemistry at the UMTRCA Title I Shiprock disposal cell.

In August, LM replaced outgrown plastic sleeves with wire cages on approximately 240 trees to protect from deer rub in the riparian corridor at the **Canonsburg, Pennsylvania, Disposal Site**.

- The trees were planted in 2019 as part of a riparian forest buffer to stabilize an embankment of rebuilt riprap along Chartiers Creek.

In November, LM completed the **Shiprock, New Mexico, Site's** Many Devils Wash infrastructure-decommissioning project to remove obsolete groundwater-remediation infrastructure and protect sensitive habitat for the threatened Mesa Verde cactus.

- LM constructed a 250-foot low-flow channel in the wash and regraded and revegetated the construction area.
- The project returned the land to the Navajo Nation community and reduced DOE's footprint.



A drone takes flight to begin the baseline aerial survey at Shiprock, New Mexico.



Newly installed cages around the trunks allow for sustained growth of the buffer trees along Chartiers Creek, Canonsburg, Pennsylvania.

## Nevada Offsites

In February, the **Nevada Division of Environmental Protection** Bureau of Federal Facilities agreed with recommendations presented in *Postclosure Inspection and Monitoring Report for Surface Corrective Action Unit 417 at the Central Nevada Test Area, Nevada, Site*.

- Recommendations included the implementation of an inspection and report frequency of every six years, instead of two. The next inspection will be in 2026 with a report submittal to NDEP in 2027.
- Reducing inspection and reporting frequency reduces site-management costs.

In March, LM submitted the draft *2021 Post-Closure Groundwater Monitoring and Inspection Report for the Project Shoal Area* to NDEP for review and comment.

- The inspection found the site was in good condition, with no unusual ground disturbances. Tritium concentrations, the primary remaining site contaminant, were stable.
- Submitting the draft report fulfills a Federal Facility Agreement and Consent Order milestone established by NDEP.

In March, LM received the final **Amchitka, Alaska** Environmental Protection Plan, Revision 1, from the U.S. Fish and Wildlife Service.

- This EPP is a supplement to the current USFWS special use permit that is applicable to upcoming field work on Amchitka.

In June, LM completed repairs at the **Amchitka, Alaska, Site** to three mud-pit caps, a drainage channel, and access roads, which were damaged in a June 2014 earthquake that occurred 11 miles northwest of Amchitka Island.

- LM also collected data on soils, sediments, and surface water and surveyed the island's geography to better understand site conditions and support effective long-term stewardship.

**In June, LM completed repairs at the Amchitka, Alaska, Site to three mud-pit caps, a drainage channel, and access roads, which were damaged in a June 2014 earthquake that occurred 11 miles northwest of Amchitka Island.**



## Defense-Related Uranium Mines

The DRUM program is a partnership between DOE, federal land-management agencies, state abandoned mine land programs, and tribal governments to inventory and safeguard uranium mines that provided ore for the nation's nuclear weapons complex.

In March, June, September, and December, the DRUM program hosted quarterly meetings of the **Abandoned Uranium Mines Working Group**.



- AUMWG is a consortium of federal agencies working together to address the human health, safety, and environmental challenges posed by the nation's estimated 4,225 abandoned mines resulting from legacy defense-related uranium mining.

In June, the **Montana-Dakotas Bureau of Land Management** office released a video that documented the inventory work the DRUM team completed on their land.

- The video describes the DRUM program, its importance, and the valuable partnership between the two entities.
- The video can be viewed at [www.youtube.com/watch?v=kNZN1wuBOdU](http://www.youtube.com/watch?v=kNZN1wuBOdU).



Scan the QR code with a mobile phone or visit [www.energy.gov/lm/defense-related-uranium-mines-program](http://www.energy.gov/lm/defense-related-uranium-mines-program) to view a map of DRUM sites.

In November, the DRUM team began **verification and validation Campaign 2**, which consists of tribal lands, and, by the end of the field season, completed 13 abandoned uranium mines on the Navajo Nation, three on the Pueblo of Laguna, and two on Spokane Tribe lands.

In December, the DRUM team concluded its field season, completing inventories on 330 mines in eight states. The DRUM program has completed inventories on 2,100 mines since the program began in 2017.

The DRUM team worked with the Utah Abandoned Mines Remediation Program and the U.S. Bureau of Land Management to **safeguard** 101 mine features in Utah. In Colorado, the team partnered with the Colorado Division of Reclamation and Mine Safety, BLM, U.S. Forest Service, and private landowners to safeguard 175 mine features.

- DRUM identified about 5,758 hazardous features at 1,528 mines that may require safeguarding. The number of potential mine safeguards will change as the DRUM team collects more data. Since fall 2019, the DRUM program has safeguarded 674 features at mines in Utah, Colorado, and New Mexico.



Auxiliary building in process of being removed at Piqua, Ohio, Decommissioned Reactor Site.

## Decontamination and Decommissioning

LM completed two of six phases of the **Piqua, Ohio, Decommissioned Reactor Site** demolition by November. When the project is completed the result will be a below-ground, protective, low-level radioactive waste entombment below a site that the city can use in the future. LM completed the following:

- General site preparation and auxiliary building demolition.
- Lead-based paint abatement and selective below-grade reactor building wall and infrastructure demolition.

Encapsulating the existing entombment with specialized waterproof concrete and backfilling is in progress and the final three phases — demolishing the reactor dome, reconstruction activities, and project closeout — are scheduled for completion next summer.



### Records and Information Technology Management

The Archives and Information Management team continued to ensure **LM records** are properly maintained and protected. The AIM team received 1,585 records requests during the year.

- 1,334 Energy Employee Occupational Illness Compensation Program Act requests.
- 33 Freedom of Information Act requests.
- 55 Privacy Act requests.
- 163 routine requests.

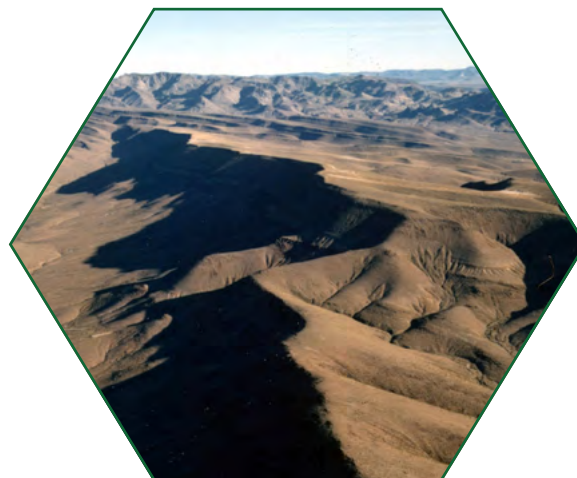
In February, LM received approval from the National Archives and Records Administration on the format for the transfer of the large collection of **Yucca Mountain Project** permanent email records.

- These email records had been preserved and maintained in an obsolete email system. LM converted this email archive to the new format and transferred them to NARA.

In March, in collaboration with the Puerto Rico Electric Power Authority, LM completed a nine-month record-recovery project to digitize historical design, construction, and operations documents for the decommissioned **Boiling Nuclear Superheater reactor**, located in Rincón, Puerto Rico. The records had been stored in the decommissioned reactor and were flooded when hurricanes swept across Puerto Rico in 2018 and 2019. Mold subsequently contaminated many boxes.

- LM remediated the mold and digitized the records, uploaded the images to LM's records-management software, and sent a digital copy sent to PREPA for their reference.
- PREPA owns the BONUS facility, but LM and PREPA share responsibility for ensuring the BONUS site continues to be protective of human health and the environment.

In April, LM transitioned multiple **Yucca Mountain** information systems (including 20 servers, 132 virtual systems, and 236 terabytes of storage) to a "cold" state to preserve the records at minimum cost. Servers, storage arrays, and networking equipment are powered off but remain racked and cabled in the LM Business Center server room so LM can potentially restart any single system if needed.



Aerial image of Yucca Mountain, Nevada, crest.

BONUS, Puerto Rico, Decommissioned Reactor Site.



In May, **LMBC, in Morgantown, West Virginia**, hosted a physicist research team from Oak Ridge Associated Universities to conduct data and information gathering on records from the Pinellas County, Florida, Site.

- LM uses this data to generate site exposure results for claims under the Energy Employee Occupational Illness Compensation Program Act.

In May, LMBC received more than 300 personnel records for custodial responsibility pertaining to the EEOICPA program and claims from the **Hanford** site.



The Pinellas Plant, circa 1960s.



Nuclear reactors line the riverbank at the Hanford Site along the Columbia River in January 1960.



LMBC in Morgantown, West Virginia.

## GOAL 3 Safeguard Former Contractor Workers' Retirement Benefits



### Benefits

The **Legacy Management Post-Closure Benefits Program** includes the development, implementation, and oversight of the Department's policy concerning the continuation of contractor pension and medical benefits after the closure of applicable DOE sites and facilities. This includes oversight of the administration and management of legacy contractor benefits in a fiscally responsible and effective manner. The primary program objective is to ensure a seamless transition of benefits administration after closure. This program is handled by the Office of Business Operations within LM.

In 2022, DOE provided health and life insurance for **9,300 former DOE workers**.

**The primary program objective is to ensure a seamless transition of benefits administration after closure.**



# GOAL 4 Sustainably Manage and Optimize the Use of Land and Assets



## Beneficial Reuse

In May, the public auction closed for the **Colonie, New York, Site**.

- LM coordinated with the U.S. General Services Administration to efficiently transfer ownership to the winning bidder, enabling the purchaser to redevelop the site.

In July, LM received notice the Federal Emergency Management Agency approved the Public Benefit Conveyance Application from the borough of Middlesex, New Jersey, to acquire the FUSRAP **Middlesex South** site.

- With this approval, GSA can continue site disposition and transfer ownership of the property to the borough, allowing redevelopment for beneficial reuse. Groundwater contamination remediation continued at the northern half of the property.



FUSRAP Middlesex South site in New Jersey.



Colonie, New York, Site.



Scan the QR code with a mobile phone or visit [www.energy.gov/media/75264](http://www.energy.gov/media/75264) to view the ULP Lease Tract Overview Map.

## Uranium Leasing Program

In August, **mine reclamation** work resumed in southwest Colorado.

- The ULP team approved reclamation plans and coordinated with its four lessees (Highbury Resources Inc., Gold Eagle Mining Inc., Golden Eagle Uranium LLC, and Consolidated Uranium), BLM, DRUM, the Colorado Division of Reclamation and Mine Safety, and other private companies.
  - The reclamation plans focus on public safety and environmental stewardship.



## GOAL 5 Sustain Management Excellence



Over the course of three months (July to September), LM received three **leased electric vehicles** from the GSA leasing program to start replacing LM's government vehicle fleet. The vehicles arrived at the Legacy Management Business Center in Morgantown, West Virginia; the Legacy Management Operations Center in Westminster, Colorado; and the Fernald Preserve in Ohio.

- The leases aligned with the bipartisan Infrastructure Investment and Jobs Act and Executive Order 14052 initiated last year.

### Program Awards and Recognition

In January, LM was recognized as the first recipient of the **DOE's GreenSpace Award**. DOE honored LM for purchasing sustainable equipment, materials, and products at its new Weldon Spring Site Interpretive Center.

- DOE sites receive recognition for purchasing programs that obtain sustainable products, save energy, conserve water, and reduce negative health and environmental impacts.

EPA recognized LM's **Weldon Spring Site** for its exemplary ecological success in a case study posted on the EPA website in early 2022.

- The EPA case study, *Cleanup Enables Creation of Recreation, Ecological Revitalization and Education Hub: Weldon Spring Quarry/Plant/Pits (USDOE) Superfund Site*, highlighted LM's accomplishments in beneficial reuse, calling it a "reuse success story."

In June, Ragan Communications recognized the **Fernald Preserve, Ohio, Site** for its "Aha Nature Moments" video series with an honorable mention as one of the three finalists for its PR Daily Awards for Digital Community Engagement. The video posts dominated LM's social media feed, receiving more traffic and comments than any other social media posts month after month.

In July, LM won the **2022 Electronic Product Environment Assessment Tool Purchaser Award** from the Global Electronics Council. EPEAT is a method for purchasers to evaluate the effects of products on the environment.





In October, LM received five **Federal Energy and Water Management Awards** at Energy Exchange 2022 in Cincinnati, Ohio.

- The Weldon Spring Site Interpretive Center won the GreenSpace Award honoring the “greening” of the newly built interpretive center and the High-Performance Sustainable Buildings award for achieving the guiding principles of sustainability during the previous fiscal year.
- LM won three awards from DOE’s Sustainable and Climate-Ready Sites Program for ecosystem health work at the Shirley Basin South, Wyoming, Disposal Site and the Weldon Spring Site, Missouri.



LM Program Director Carmelo Melendez.

In November, LM Program Director Carmelo Melendez **won a Presidential Rank Award of Meritorious Service**, considered the highest honor for career civil servants.

- The award recognized Melendez’s sustained accomplishments within LM that benefited public health and the environment, developed vital connections to underserved communities, and saved tens of millions of taxpayer dollars.

## Collaborative Efforts

In FY 2022, LM staff chaired and participated in the [DOE National Long-Term Stewardship Working Group](#). LTSWG is a cross-program team established by the DOE Office of Environmental Management, LM, and National Nuclear Security Agency to address national and crosscutting site-level, long-term stewardship activities and issues.

In February, LM presented a summary of its [Baseline Aerial Survey](#) program to the [Low-Level Waste Disposal Federal Review Group](#). LFRG is an independent group sponsored by EM that ensures, through review, that DOE's low-level disposal facilities, including those managed by NNSA, and tank closures at DOE sites are protective of the public and environment.

- LM focused on how the program applied to LM's long-term stewardship mission and its potential applications to other programs.



EM Waste Management Facility at Oak Ridge.

In April, LM completed all technical and financial reviews of [Title X Uranium/Thorium Reimbursement](#) claims received in calendar year 2021 for processing in fiscal year 2022. The Title X program reimburses private mill site licensees for a share of their site remediation costs.

- LM conducts financial reviews of Title X claims to determine if costs are eligible for reimbursement. EM oversees the Title X Program and provides the reimbursements to the Title X licensees.
- In June, LM distributed reimbursement letters and statements of account following EM payments to licensees.

In June, a U.S. Office of Management and Budget examiner toured the [Piqua Demolition Project and Fernald Preserve](#) in Ohio to observe construction progress and LM's long-term stewardship and maintenance operations.

- At Piqua, DOE updated the examiner about demolition activities on the utility vaults and reactor building air lock.
- At Fernald, DOE provided a site tour, including a briefing on the site's history and stops at the wastewater treatment plant, on-site disposal facility, off-site groundwater extraction operations, and visitors center.

In July, LM participated in the [Nuclear Educators Workshop](#), sponsored by the Massachusetts Institute of Technology, Clemson University, and DOE Office of Nuclear Energy.

- Held at MIT, the workshop identified topics on waste management at various stages of the nuclear fuel cycle that should be included in nuclear engineering programs' curricula.



Fernald Preserve, Ohio, Site.

In October, LM participated in the 43rd annual conference of the **National Association of Abandoned Mine Land Programs**, in Grand Junction, Colorado. LM was a major sponsor of the conference.

- LM Director Carmelo Melendez opened the conference with a keynote address focusing on long-term stewardship and the importance of partnerships.
- LM gave seven presentations focused on the DRUM program, ULP, STEM with LM, the Aviation Program, and LM calibration facilities.

## National Laboratory Network Collaboration

In March, EM and LM co-chaired a session regarding the **DOE Network of National Laboratories for Environmental Management and Stewardship** at the 2022 Waste Management Symposia.

- NNLEMS serves as a focal point to access NLN advice on policy decisions on environmental cleanup and assists DOE in solving emerging and recurring issues.

In March, LM completed a series of meetings with NLN to review the **Rifle, Colorado, Disposal Site** and identify why its cell is accumulating water. NLN will complete their analysis and recommendations and provide a report in 2023.

In April, LM, USACE, and the Savannah River National Laboratory met to discuss remediation at the **DuPont (Chambers) Site** in New Jersey.

- Under FUSRAP, USACE is remediating radiological contamination from uranium processing and separation testing carried out between the 1940s and 1960s.

In May, LM received the NLN's recommendations for environmental best practices and risk reduction at the **Weldon Spring Site, Missouri**.

- The recommendations primarily focused on managing a groundwater area and addressed issues identified in the Weldon Spring Site Sixth CERCLA Five-Year Review.

In September, LM joined EM and U.S. Nuclear Regulatory Commission representatives in the kickoff meeting of the Network of National Laboratories for Environmental Management and Stewardship to start developing the Groundwater Compliance Action Plan for the **Moab, Utah**, Uranium Mill Tailings Remedial Action site.



LM Program Director Carmelo Melendez spoke to a crowd of several hundred reclamation specialists on Oct. 17 in Grand Junction, Colorado, at Confluence 2022: the 43rd Annual Conference of the National Association of Abandoned Mine Land Programs.



Rifle, Colorado, Disposal Site.

## International Collaboration

In August, LM hosted members of the **International Atomic Energy Agency Coordination Group for the Uranium Legacy Sites Initiative in Central Asia** in Grand Junction, Colorado, for workshops on uranium legacy sites' post-remediation management.

- IAEA sent representatives from Uzbekistan, Kyrgyzstan, Tajikistan, and Kazakhstan to attend.
- Workshops included visits to LM sites in Rifle and Grand Junction, Colorado, and Monticello, Utah; DRUM sites; and the ULP's Burro Mines.

In October, LM participated in an **IAEA workshop** in Vienna, assisting IAEA's development of a safety guide for "Long-Term Post Remediation Management."

- The objective of the meeting was for member state representatives to identify topics that should be covered in the guide and determine the best subject matter experts for each topic.



LM Office of Business Operations Deputy Director Tania Smith Taylor joined about 40 people from more than 20 countries at an IAEA forum in October.

## LM Director's Travel

LM Director Carmelo Melendez's travels included:

- **February:** Burrell and Canonsburg sites and the USACE Shallow Land Disposal Area site in Pennsylvania.
- **March:** Grand Junction EM Moab project office.
- **April:** Weldon Spring Site Interpretive Center ribbon-cutting event and Fernald Preserve.
- **May:** Spokane Tribe of Indians and the Sherwood, Washington, Site.
- **June:** Mound, Ohio, Site.
- **July:** The Legacy Management Operations Center in Westminster, Colorado, and the Legacy Management Field Support Center in Grand Junction, Colorado.
- **September:** Edgemont, South Dakota, and Lakeview, Oregon, Disposal Sites and the transitioning Split Rock, Wyoming, UMTRCA Title II Disposal Site.
- **October:** Pinellas County, Florida, Site.
- **December:** Piqua, Mound, and Fernald, Ohio, sites.
- **December:** Laboratory for Energy-Related Health Research and Burriss Park, California, sites.



LM Director Carmelo Melendez shows former Weldon Spring Site worker Robert Laird one of the exhibits inside the new Weldon Spring Site Interpretive Center. LM welcomed about 70 guests to a ribbon-cutting ceremony on Thursday, April 14.

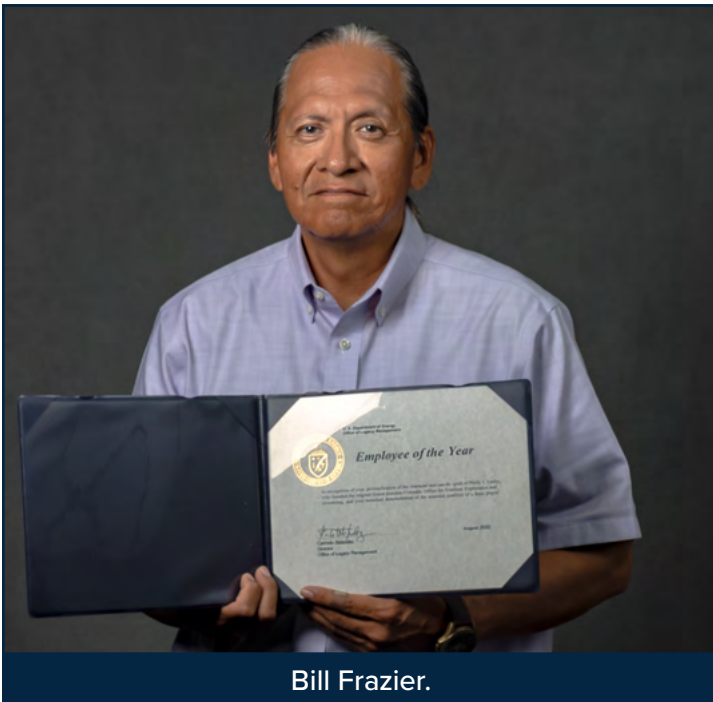
## Philip C. Leahy Award Winners

In August, LM presented eight LM employees with **Philip C. Leahy awards** and recognized IT specialist Bob Walker and engineer Bill Frazier as Employees of the Year.



Philip C. Leahy.

- LM recognized Walker for his long-tenured hard work and dedication as an integral part of LM's cybersecurity program.
- LM recognized Frazier for his outstanding achievement and exemplary teamwork as a site manager in Grand Junction, Colorado.
- The other Leahy Award winners were Darina Castillo, Giancarlo Deguia, Angelita Denny, Shawn Montgomery, Mary Young, and Brian Zimmerman.
- Established in 2017, Leahy awards recognize LM employees who demonstrate the qualities of outstanding team players.
- Philip C. Leahy set up what is now the Legacy Management Field Support Center in Grand Junction, Colorado, while working on the Manhattan Project and later served as the site's manager under the U.S. Atomic Energy Commission.



Bill Frazier.



Bob Walker.

## New Employees

**Gordon E. Clark** joined the Uranium Mine Team as the supervisor and is responsible for the verification, field surveying, risk assessment, and physical safeguarding of DRUM sites. His prior positions include real policy analyst for DOE as well as director of Real Estate and Shore Infrastructure Planning and the product line leader for Contingency Engineering for the Naval Facilities Engineering Command.

**Beth Coleman** joined the Archives and Information Management Team as an information technology specialist. Prior to her move to LM, she spent the past 11 years as an LMSP contractor managing the IT Governance team.

**Allison Kenney** joined the Archives and Information Management Team as an IT specialist. She worked for more than 20 years in IT as a network administrator, network manager, and cybersecurity analyst for contractors on DOE UMTRA projects and with LM.

**Lisa Saurborn** joined the Asset Management team after working three years as an LMSP contractor, working out of the LMBC, in Morgantown, West Virginia.

**William Burns** joined the LM-23 Uranium Mine team, following four years managing DRUM field teams as an LMSP contractor.

**Joni Tallbull** joined the UMTRCA team as a physical scientist at the Shiprock, New Mexico, Disposal Site following eight years as an environmental specialist with the Navajo Nation Abandoned Mine Lands Environmental Institute.

**Annette Moore** joined the LM-11 Archives and Information Management team as an IT specialist. She spent the past two years working as an LMSP contractor, a supporting groundwater and field-based sampling, data modeling, and industrial system security.

**Stephen Pitton** joined the LM-21 Site Operations Team as a site manager. He joined the LM program as a contractor in 2008, initially in the engineering department and later working as a site lead and project manager.

**Diana Trettin** joined the Asset Management team in LM as the Beneficial Reuse Program manager. Trettin started her federal employment with NPS in January 2015 as a natural resource/renewable energy specialist for the Intermountain Region. She then joined BLM as a mitigation specialist in 2017.

**Allison Finelli** joined LM as chief of staff. Prior to joining LM, Finelli served as deputy chief of staff for EM. During her time in EM's front office, Finelli directly supported two program leads, providing staff continuity between EM leaders during the administration change in 2021.

**Obi Diei-Anene** joined the LM Office of Business Operations LM-10 as a contract manager and procurement analyst. Prior to working with LM, she was a contracting officer for the DOE Office of Headquarters Procurement Services.

**Shawn Eichelberger** joined LM as a geologist with more than 22 years of environmental consulting experience. For the past 12 years, he supported environmental restoration projects for federal clients.

**Christin Jost** joined the Education, Communication, History, and Outreach team as a program communication specialist. Prior to joining LM, she worked with the Veterans Affairs St. Louis Healthcare System and served in the U.S. Navy.

During FY 2022, 11 employees separated from LM through retirement, transfer, or resignation.

## LM Interns and Fellows

During the summer, two Mentorship for Environmental Scholars program interns participated in an 8- to 10-week, paid summer internship and worked with LM on several projects. MES provides underrepresented college students with research experience in environmental science, justice, and policy.

**Mikayla Bia** participated in field work with UMTRCA, ULP, and DRUM field teams, including inventories, environmental sampling, and in-field quality assurance.

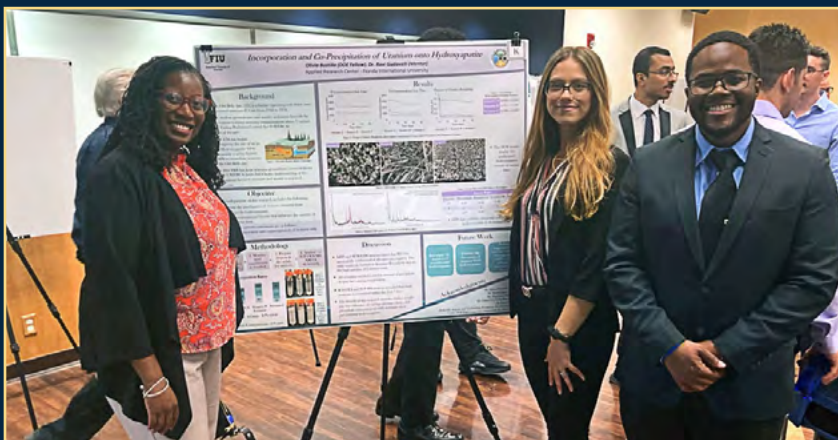
**Jacob Henry** used geochemical modeling software that analyzed data to create possible chemical reactions with the sediment composition and created graphs of the chemicals in groundwater with the Applied Studies and Technology program.



Mikayla Bia.



Jacob Henry.



From left, LM Site Manager Darina Castillo attends the November Florida International University induction ceremony with **Olivia Bustillo** and **Shawn Cameron**, who were participants in the 2022 DOE Fellows program.

# OLD LM ORGANIZATIONAL CHART

As of  
Jan. 1,  
2022

## LM 1

C. Melendez, Director

## LM 2

P. O’Konski, Deputy Director  
T. Atkins, Program Manager  
M. Downing, Environmental Justice Program Manager  
P. Poole-Shirriell, Management Analyst  
D. Shafer, Senior Advisor

### Education, Communication, History, and Outreach Team - LM 3

D. Von Behren, Supervisor  
K. Holmes, Program Analyst  
P. Benson, Program Analyst  
D. Freeman, Communication Liaison  
S. Montgomery, Public Participation Specialist  
G. Kuntz, Public Participation Specialist  
E. Boyle, Historian

### Office of Site Operations - LM 20

J. Glascock, Deputy Director  
D. Tan, EPS Site Operations

#### UMTRCA/NVOS Team - LM 21

P. Kerl, Supervisor

M. Kautsky, Hydrologist	K. Kreie, Physical Scientist
J. Dayvault, General Engineer	S. Woods, Physical Scientist
J. Nguyen, Physical Scientist	C. Boger, Physical Scientist
A. Denny, Physical Scientist	M. Hurt, Physical Scientist
W. Frazier, General Engineer	N. Keller, General Engineer
B. Tsosie, General Engineer	

#### RCRA/CERCLA/FUSRAP Team - LM 22

G. Hooten, Supervisor

C. Carpenter, General Engineer	R. Roberts, Physical Scientist
D. Castillo, General Engineer	M Lutz, Physical Scientist
A. Keim, Physical Scientist	T. Drake, General Engineer
B. Zimmerman, Physical Scientist	A. Kuhlman, General Engineer
K. Whysner, Physical Scientist	

#### Uranium Mine Team - LM 23

Brent Lewis, Acting Supervisor

D. Barr, Physical Scientist	M. Young, Physical Scientist
B. Lewis, Physical Scientist	I. Shafer, Physical Scientist
C. Denton, Physical Scientist	

#### ESHQ Group - LM 24

T. Ribeiro, Supervisor

J. Damiano, Quality Assurance Specialist  
B. Stewart, Industrial Hygienist  
N. Olin, Physical Scientist and Environmental Planner

### Office of Business Operations - LM 10

T. Smith-Taylor, Deputy Director

T. Collins, Business Operations Specialist  
C. Johnson-Freeman, Program Analyst  
Q. Clyburn, Program Analyst

#### Archives and Information Management Team - LM 11

E. Parks, Supervisor

R. Walker, IT Specialist	K. Brown, IT Specialist
R. King, Correspondence Specialist	G. Deguia, Records/Information Management Specialist
J. Linard, Program Analyst	

#### Financial, Audits, and Contracts Services Team - LM 12

I. Colbert, Supervisor

J. Chinkhota, Financial Analyst	J. Murl, Project Controls Analyst
R. Rodgers, Budget Analyst	J. Austin, Project Controls Analyst
L. Martin, Budget Analyst	A. Sigala, Budget Analyst
J. Gueretta, Management Analyst	
E. Jackson, Staff Assistant	

#### Asset Management Team - LM 13

B. Sokolovich, Supervisor

E. Holland, Property Management Specialist	D. McNeil, Realty Specialist
J. Chavez, Physical Scientist	O. Akers, Industrial Property Management Specialist
P. Robinson, Realty Specialist	D. Steckley, Physical Scientist
G. Cummings, Emergency Management Specialist	K. Starr, General Engineer



# CURRENT LM ORGANIZATIONAL CHART

**As of  
Dec. 31,  
2022**

## LM 1

C. Melendez, Director

## LM 2

S. Whiteford, Deputy Director  
M. Downing, Environmental Justice Program Manager  
P. Poole-Shirriel, Management Analyst  
T. Smith Taylor, Technical Director  
A. Finelli, Management and Program Analyst

### Education, Communication, History, and Outreach Team - LM 3

D. Von Behren, Supervisor  
K. Holmes, Senior Communications Analyst  
P. Benson, Program Analyst  
S. Montgomery, Public Participation Specialist  
E. Boyle, Historian  
C. Jost, Program Communications Specialist

### Office of Business Operations - LM 10

T. Smith-Taylor, Deputy Director  
T. Collins, Business Operations Specialist  
R. Rogers, Program Analyst  
O. Diei-Anene, Procedure Analyst

#### Archives and Information Management Team - LM 11

E. Parks, Supervisor  
R. Walker, IT Specialist  
R. King, Correspondence Specialist  
K. Brown, IT Specialist  
G. Deguia, Records/Information Management Specialist  
B. Coleman, IT Specialist  
A. Kenney, IT Specialist  
Q. Clyburn, Program Analyst  
A. Moore, IT Specialist

#### Financial, Audits, and Contracts Services Team - LM 12

I. Colbert, Supervisor  
J. Chinkhota, Financial Analyst  
L. Paulino, Budget Analyst  
J. Murl, Project Controls Analyst  
J. Austin, Project Controls Analyst  
A. Sigala, Budget Analyst  
D. Hill, Budget Analyst

#### Asset Management Team - LM 13

B. Sokolovich, Supervisor  
E. Holland, Property Management Specialist  
P. Robinson, Realty Specialist  
G. Cummings, Emergency Management Specialist  
O. Akers, Industrial Property Management Specialist  
D. Steckley, Physical Scientist  
C. Johnson-Freeman, Program Analyst  
L. Saurborn, General Engineer  
D. Trettin, Physical Scientist  
K. Chester, Realty Specialist

### Office of Site Operations - LM 20

J. Glascock, Deputy Director  
D. Tan, EPS Site Operations  
M. Kautsky, Hydrologist

#### UMTRCA/NVOS Team - LM 21

P. Kerl, Supervisor  
J. Dayvault, General Engineer  
A. Denny, Physical Scientist  
W. Frazier, General Engineer  
K. Kreie, Physical Scientist  
S. Woods, Physical Scientist  
C. Boger, Physical Scientist  
M. Hurt, Physical Scientist  
N. Keller, General Engineer  
J. Tallbull, Physical Scientist  
S. Pitton, General Engineer  
N. Olin, Physical Scientist  
M. Young, Physical Scientist

#### RCRA/CERCLA/FUSRAP Team - LM 22

C. Carpenter, Supervisor  
D. Castillo, General Engineer  
A. Keim, Physical Scientist  
B. Zimmerman, Physical Scientist  
K. Whysner, Physical Scientist  
R. Roberts, Physical Scientist  
M. Lutz, Physical Scientist  
T. Drake, General Engineer  
A. Kuhlman, General Engineer  
S. Eichelberger, Physical Scientist

#### Uranium Mine Team - LM 23

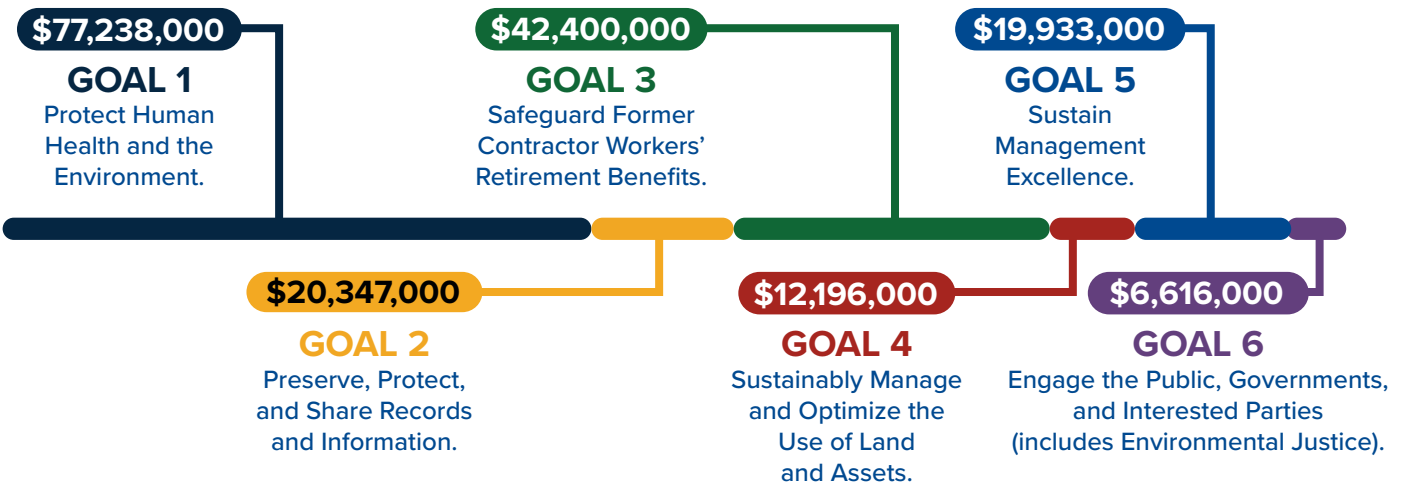
G. Clark, Supervisor  
C. Denton, Physical Scientist  
I. Shafer, Physical Scientist  
W. Burns, Physical Scientist  
P. Schwarz, Physical Scientist  
J. O'Brien, Physical Scientist

#### ESHQ Group - LM 24

T. Ribeiro, Supervisor  
J. Damiano, Quality Assurance Specialist  
B. Stewart, Industrial Hygienist  
J. Chavez, Physical Scientist

# 2022 Program Budget

**TOTAL LEGACY MANAGEMENT BUDGET - \$178,730,000**



## Fiscal Year 2023 LM Budget Request

In March, LM rolled out its FY 2023 budget request of about \$196 million. This request was nearly \$17 million above the enacted FY 2022 budget and included about \$13 million to strengthen environmental justice activities, enabling the program to reach a larger number of affected communities. The request also included an additional \$4 million to support important maintenance and repair work at sites with natural and climate change-induced degradation and enhance core long-term surveillance activities.

# GOAL 6 Engage the Public, Governments, and Interested Parties



## DEPARTMENTAL PROGRAMS

LM is assigned three key Departmental programs: the DOE History Program, the Environmental Justice Program, and the Manhattan Project National Historical Park.

### DOE History Program

As the source of the Department's institutional memory, the History Program provides historical information and services, supports the DOE Federal Preservation Officer, and offers subject-matter expertise for DOE's historical records and reference material.

The History Program supported program elements outside LM, including:

- Litigation research for the DOE Office of the General Counsel.
- Review of front office records for the DOE Office of the Executive Secretariat.
- FOIA reviews for OMB.
- Mandatory document reviews for the DOE Office of Classification.
- Content development for the DOE Office of Public Affairs.
- Historic preservation support to the DOE Federal Preservation Officer.
- Responses to more than 90 requests for historical services from more than 30 additional DOE programs and offices.

The LM historian:

- Provided historical services in response to 78 requests from consulting firms, science organizations, academia, authors, filmmakers, utility managers, museums, archaeological programs, historic preservation partners, students, and members of the public.
- Provided support and review of historic preservation issues in response to 57 requests from LM, FEMA, OMB, Idaho National Laboratory, Oak Ridge Office of Environmental Management, Los Alamos National Laboratory, Office of the General Counsel, Office of Sustainable Environmental Stewardship, Osage Nation Historic Preservation Office, Pantex Plant, Oak Ridge National Laboratory, Richland Operations Office, Oak Ridge Cultural Resources Management Coordinator, DOE Office of Environmental Protection, and Western Area Power Administration.
- Completed the 150-page DOE History Timeline for 2017.
- Published more than 200 pages of new content for “[The Manhattan Project: An Interactive History](#)” website.
- Served as membership coordinator for the Society for History in the Federal Government and attended monthly meetings of the executive council.
- Attended Society for History in the Federal Government Annual Meeting and delivered presentation titled “A Pioneering Work in Federal History: The Story Behind the New World: Volume 1 of the History of the United States Atomic Energy Commission.”



- Completed the following tasks on part-time detail with Office of Environment, Health, Safety and Security to support Deputy Secretary David Turk’s memorandum from Sept. 16, 2021, titled *Addressing Per- and Polyfluoroalkyl Substances at the Department of Energy*:
  - An initial assessment of NARA records, which involved 17 days of research and reviewing the contents of about 500 boxes.
  - An initial assessment of records, which involved six days of research and reviewing the contents of 22 boxes, in the DOE archives in Germantown, Maryland.
  - Reviews of papers titled “PFAS and the Manhattan Project in Popular Sources and Scholarly Literature” and “Report on DOE PFAS Roadmap Action 1.4: Complete initial assessment of classified records in GTN and NARA-College Park.”
  - Supported the writing of *Guidance for Investigating Per- and Polyfluoroalkyl Substances at U.S. Department of Energy Sites and Facilities* and developed the appendix for this guidance titled “Historical Records Search Tool.”



Dr. Melinda Downing (center) and Dr. Oluwole Ariyo (far right), Allen University, pictured with Allen University interns.



U.S. Secretary of Energy Jennifer Granholm gives her presentation to the 2022 NEJC via livestream.

## Environmental Justice

In March, LM hosted the annual **National Environmental Justice Conference and Training Program** in Washington, D.C., both in person and virtually. The conference theme was “New Opportunities and Trends in Environmental Justice in 2022 and Beyond,” building upon past annual conferences and recognizing a rapidly changing and diversifying landscape.

- Highlights of the program included a video address by U.S. House Majority Whip James E. Clyburn (D-S.C.), a live address by Secretary of Energy Jennifer Granholm, a video presentation by Deputy Secretary of Energy David Turk, and in-person keynote remarks by USFWS Deputy Assistant Secretary Mike Martinez.

In October, the EJ program manager participated in the **Teaching Radiation, Energy and Technology Workshop** for community leaders in Barnwell, South Carolina.

- The workshop educated teachers, students, community members, and stakeholders in the Central Savannah River Area about radiation (and its effects on human health and the environment) and radioactive waste management.



NEJC 2022 participants (left to right): Clarence L. Brown, Pre-College University; Dr. David Padgett, Tennessee State University; Dr. Melinda Downing, DOE; de’Lisa Carrico, DOE Savannah River Site; Dr. Kenneth Sajwan, Savannah State University; Mr. Lloyd Moore, The Moore Company; Dr. Latecia Abraham-Hilaire, Medical University of South Carolina; and Dr. Oluwole Ariyo, Allen University.

## Manhattan Project National Historical Park

The Manhattan Project National Historical Park is managed through a collaborative partnership between NPS and DOE to preserve, interpret, and facilitate access to key historical resources associated with the Manhattan Project. The park incorporates three of the most significant Manhattan Project sites: Oak Ridge, Tennessee; Los Alamos, New Mexico; and Hanford, Washington. The various interpretive centers and facilities associated with the park are managed by several different organizations.

As the Department's principal representative for MAPR, LM is responsible for coordinating with NPS and DOE program offices spread across the three locations.

### Los Alamos

**Los Alamos National Laboratory** completed LM-funded roof repair on the Slotin Building in Technical Area 18.

- The Slotin Building was the location of the criticality accident that led to Manhattan Project scientist Louis Slotin's death, which significantly influenced future criticality safety programs.

### Oak Ridge

In April, LM Deputy Director Peter O'Konski joined representatives of NPS and other DOE offices to recognize the significance of **Building 9731**, part of the Y-12 Pilot Plant, as one of the Manhattan Project's earliest landmarks.

- The building is the first Manhattan Project facility to display a sign recognizing it as a permanent historical element of MAPR.
- Building 9731 was the first building completed at Y-12, where operations workers trained to perform the critical uranium-separation process.

LM contributed funding toward the installation of Americans with Disabilities Act of 1990-compliant restrooms in Building 9731.



Manhattan Project National Historical Park signs were installed on roads crossing Los Alamos National Laboratory property. Left to right: Padraic Benson, principal representative (LM); Cheryl Abeyta, park program manager (Triad/LANL); Kris Kirby, former park superintendent (NPS); Laura Hronec, park site representative (NNSA Los Alamos Field Office). Photo courtesy of Los Alamos National Laboratory.



Left to right: Mary Helen Hitson, program manager (DOE); Kris Kirby, superintendent (MAPR); Peter O'Konski, deputy director (LM); Bill Tindal, chief operating officer (Consolidated Nuclear Security). Photo courtesy of Brian Holt, CNS.

## Selected Engagements and Outreach

In January, Cincinnati public radio station WMKV 89.3 FM broadcast a feature about the **Fernald Preserve**. A journalist interviewed a site interpreter about the Wild Reads Book Club, an LM public program that has been hosted virtually since March 2020.

LM presented on the Amchitka, Alaska, Site at the annual Alaska Forum on the Environment in February. The **Alaska Forum on the Environment** promotes a more productive and efficient relationship between government agencies, businesses, organizations, tribes, and the public.

In March, LM participated in the **2022 Waste Management Symposia**.

- LM representatives led a variety of presentations and panels that highlighted LM's long-term stewardship projects.
- The symposia recognized LM with a Paper of Note award for a paper on partnering with stakeholders to develop risk-reduction strategies.
- The symposia recognized the DOE Long-Term Stewardship Working Group, which LM participates in, with a Superior paper rating.
- Staff highlighted LM's many programs and projects at a booth in the symposium's exhibit hall.
- LM participated in the STEM Zone planning committee and developed an activity that collected educational materials from conference exhibitors to distribute to a local school.



STGWG meeting at the Weldon Spring Site, Missouri.

In May, LM hosted the State and Tribal Government Working Group spring meeting at the **Weldon Spring Site**. STGWG provides a national platform for states and Native American tribes affected by DOE sites and facilities associated with the production and cleanup of the nuclear weapons complex.

- STGWG's priorities are long-term stewardship, natural resource damage assessment and restoration, and tribal issues.

In May, LM participated in the **Western Colorado Children's Water Festival** at Las Colonias Park in Grand Junction, Colorado. The two-day event was geared toward fifth grade students and was the largest of its kind in the state.

- 1,500 students learned from 150 different presenters and water experts, including LM staff demonstrating water sampling in the Colorado River.



LM Site Manager Sara Woods tells students about the former Climax Uranium Mill on the site of what is now Las Colonias Park in Grand Junction, Colorado.

In May, LM participated in the **Twelfth International Conference on Remediation of Chlorinated and Recalcitrant Compounds**, a premier environmental conference held in Palm Springs, California.

- Hosted by Battelle, more than 1,600 private and public sector scientists and engineers from around the world gathered to create a portrait of an ever-evolving environmental industry, identify current issues, determine how those issues are understood and addressed, and find solutions.

In June, about 60 members from the Ohio Section American Water Works Association toured the **Fernald Preserve**.

- The group of drinking-water and wastewater professionals expressed interest in touring the site for networking, education, and high-level discussions about treatment, contaminants, remediation, and history of the Fernald site.

In June, LM participated in a **Nuclear Waste Education Workshop** sponsored by the Massachusetts Institute of Technology and Clemson University.

- The workshop focused on ways to educate university-level nuclear engineering and science students about the different wastes generated in the nuclear fuel cycle and how they are managed today.

In September, LM coordinated with staff from PREPA to arrange a **tour of the BONUS, Puerto Rico, Decommissioned Reactor Site** for the NRC Chairman Chris Hanson.

- PREPA owns the facility, and LM and PREPA are responsible for keeping the site protective of human health and the environment.

In September, LM and USACE unveiled “**FUSRAP: A Legacy of Service**,” a free-standing interpretive exhibit at DOE headquarters in the James V. Forrestal Building, in Washington, D.C., that communicates the history of FUSRAP and the program’s significance.

- The exhibit will be used during conferences, meetings, and events. FUSRAP-impacted communities can also request use. It is accompanied by an interactive virtual display that allows the public to click through images and text, available at [www.energy.gov/lm/fusrap-historical-display](http://www.energy.gov/lm/fusrap-historical-display).
- The event commemorated the 25th anniversary of DOE and USACE’s FUSRAP collaboration.
- Speakers included LM Director Carmelo Melendez, LM Deputy Director Peter O’Konski, LM FUSRAP Site Manager Darina Castillo, and USACE Environmental Division Chief Lara Beasley.



LM and USACE staff celebrated the unveiling of a new display depicting FUSRAP’s history. The event at the Forrestal Building, in Washington, D.C., marked the 25th anniversary of the partnership between LM and USACE.

In October, LM participated in and sponsored the 43rd annual conference of the **National Association of Abandoned Mine Land Programs**, in Grand Junction, Colorado.

- LM Director Carmelo Melendez opened the conference with a keynote address that focused on long-term stewardship and the importance of partnerships.

In October, Rocky Flats Site staff hosted **Rocky Flats Plant** retirees on a visit to their former workplace. They visited locations where buildings once stood. It was the first time returning to the site for most attendees since retiring.

- Several retirees returned to the nearby Legacy Management Operations Center and recorded oral histories that captured and preserved their experiences.

In October, LM installed an interpretive sign at the **Pre-Schooner II, Idaho, Site** to share the history of the non-nuclear cratering experiment conducted by the U.S. Atomic Energy Commission in 1965.

In October, LM presented at the **Council of State Governments Midwest Radioactive Materials Transportation Committee** Fall Meeting, in Rapid City, South Dakota.

- The presentation covered material transport during cleanup of the Edgemont, South Dakota, Disposal Site.

In October, LM presented at the **NRC Agreement State Workshop** in Salt Lake City, Utah.

- The workshop enhanced communication between NRC and Agreement States on the process outlined in SA-900, "Termination of Uranium Mill Licenses in Agreement States," to gain efficiencies.

In November, LM hosted a community meeting to discuss concerns related to potential wildfire and subsequent air emissions from the **Rocky Flats Site**.

- The meeting was in response to letters received from local governments requesting DOE consider performing off-site air monitoring.

In November, LM discussed its long-term mission to reclaim mine and mill sites in the American Southwest at the **American Nuclear Society Winter Meeting and Technology Expo**, in Phoenix, Arizona.

In November, LM Director Carmelo Melendez and site managers visited the **Piqua, Ohio, Decommissioned Reactor Site** to observe demolition progress and meet with stakeholders.

- During the meeting at Piqua City Hall, LM presented the Piqua city manager with a plaque, thanking the city for its long-standing partnership with DOE.

In December, LM Director Carmelo Melendez, following a tour of the Mound Site in Miamisburg, Ohio, presented plaques containing letters of recognition to the EPA Region 5, Ohio EPA, **Fernald Preserve and Mound site** project teams, city of Miamisburg, Mound Development Corporation, and Mound Science and Energy Museum Association.



Rocky Flats Site Manager Andy Keim, second from left, listens to retirees during a tour of the former plant site near Denver, Colorado.



LM and LMSP staff recently traveled to install an interpretive sign at the Pre-Schooner II, Idaho, Site. Pictured in the photo (left to right): Lisa Bade (LMSP), Meghann Hurt (LM site manager), Rick Findlay (LMSP), and Jackie Petrello (LMSP).



In December, LM Director Carmelo Melendez recognized **Fernald Preserve** stakeholders, including the Fernald Residents for Environmental Safety and Health and the Fernald Community Alliance, during a visit to the site near Hamilton, Ohio.

- Honorees were recognized for their significant contributions in achieving cleanup goals and their continued engagement.

In December, LM hosted a tour of the **Rocky Flats Site** for the new site representative from Colorado's Office of the Attorney General. Representatives from the CDPHE and USFWS also attended.

## Selected Tribal Engagement

The **DRUM** program collaborated with Navajo Nation agencies and EPA Region 9 to better understand mines on Navajo land and to inventory mines not designated for cleanup.

In April, DRUM finalized a five-year cooperative agreement with the Navajo Nation Abandoned Mines Lands Reclamation Department to assist the **DRUM** program with technical reviews, public outreach, translation services, training, equipment, and safeguarding hazardous mine features.

In March, LM and the Hopi Tribe agreed to a new cooperative agreement to support LM activities at the **Tuba City, Arizona, Site**. The agreement spans five years and provides support for technical reviews, outreach, site visits, meeting participation, and other activities as necessary.

In March, LM conducted a virtual **Navajo Nation STEM-sation** event with Chinle High School that included a Radiation 101 video and a demonstration that identified common items that contain background radiation. Participants included 31 students and two teachers.

In April, LM participated in a **Navajo Nation STEM-sation** event hosted by Utah State University in Blanding. More than 600 students attended LM's groundwater presentation.

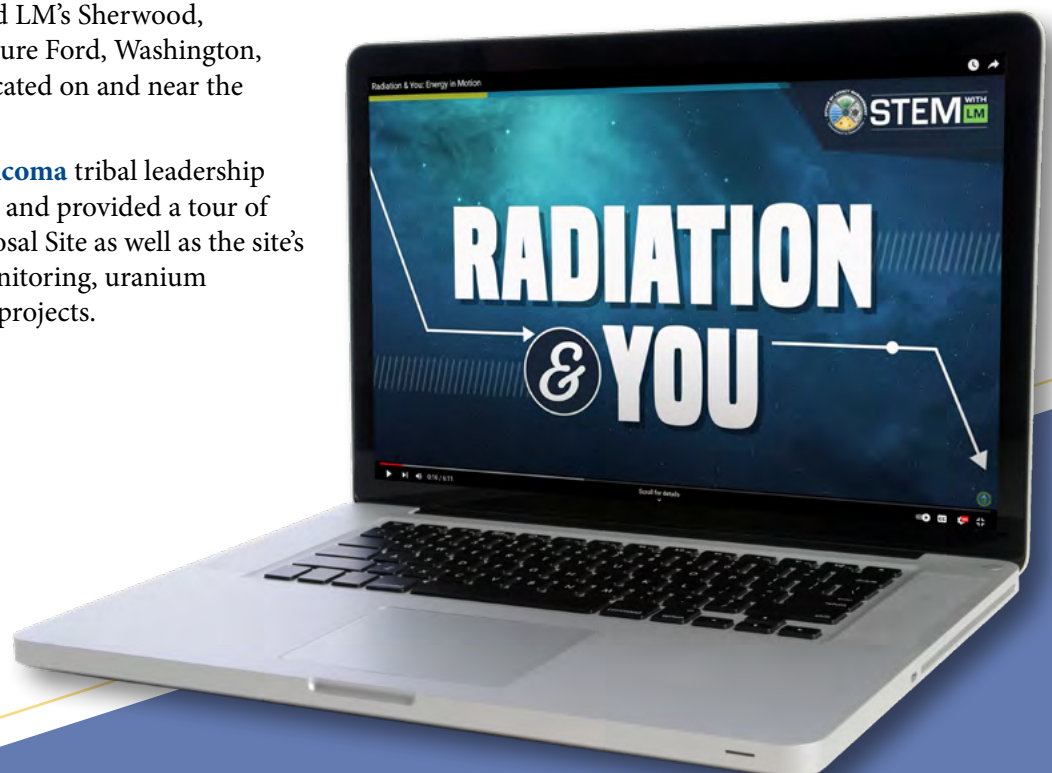
In April, LM presented a Radiation 101 video and demonstration at the virtual **Diné College STEM Festival**.

In May, LM Director Carmelo Melendez and several staff met with the **Spokane Tribe of Indians** in Wellpinit, Washington, and toured LM's Sherwood, Washington, Disposal Site; the future Ford, Washington, Disposal Site; and DRUM sites located on and near the Spokane Indian Reservation.

In May, LM met with **Pueblo of Acoma** tribal leadership — both in person and virtually — and provided a tour of the Bluewater, New Mexico, Disposal Site as well as the site's history, geology, groundwater monitoring, uranium contaminate plume, and ongoing projects.



A multi-agency briefing starts early in the morning on the Navajo Nation, with representatives from LM, EPA, Navajo Nation EPA, and RSI.



In June, LM and LMSP conducted extensive outreach in the community surrounding the **Shiprock, New Mexico, Site** prior to drilling and installing on-site monitoring wells.

- LM staff and the Navajo Abandoned Mine Lands public information officer went door to door, providing information to residents near the disposal site.
- Additional outreach included virtual presentations to chapter house leadership, advertisements and public service announcements, traditional mail and email notifications, and an informational kiosk set up for a few hours at a busy marketplace near a drilling site.

In July, LM hosted the Shiprock Chapter House, which is the community's governing body, during a tour of the **Shiprock, New Mexico, Disposal Site**. The tour group discussed site history and current and upcoming projects.

In October, LM staff attended the **2022 American Indian Science and Engineering Society National Conference**, in Palm Springs, California.

- The AISES National Conference is the nation's largest career and college fair for indigenous STEM students and professionals.

In October, **DRUM** staff briefed the Pueblo of Laguna Environmental and Natural Resources Department on radiological contamination fundamentals, general risk perspectives, biological effects, monitoring, and controls.

In November, **DRUM** staff met virtually with Pueblo of Zia leadership to introduce the program and establish a point of contact to review the one DRUM site on pueblo land.

In November, **DRUM** staff met with the Hualapai Tribe Department of Cultural Resources director to introduce the DRUM program and establish a point of contact for inventory work at the one mine site on Hualapai land.

In November, LM hosted a STEM workshop at the **Shiprock, New Mexico, Site** for environmental science students from Navajo Technical University, a tribal university located in Crownpoint, New Mexico.

- The workshop and tour focused on the ongoing LTS&M work and provided information on DOE's internship and employment opportunities.



Participants enjoy the LM STEM photo booth at the AISES National Conference's STEM Activity Day.



# STEM WITH LM

## STEM with LM

LM staff participated in 18 STEM with LM events and activities involving 4,800 participants during 2022.

In January, LM staff supported two STEM events for **Pomona Elementary School** in Grand Junction, Colorado.

In February, April, June, and October, LM hosted internal collaboration meetings with **STEM with LM Community of Practice** federal staff to discuss, plan, share, and inspire STEM programming. The meetings included a review of STEM activities, prior program lessons learned, and planning for upcoming events.

In February, LM participated in a career fair at **Central High School**, in Grand Junction, Colorado.

In March, LM representatives virtually presented on the evolution of the STEM with LM program to the **Federal Partners Group** in a meeting titled “Fed Partners: Growing from the STEM Up!”

In April, LM **Grand Junction** representatives participated in local STEM events and activities, including:

- Reviewed student presentations for the LEGO League Explore Festival.
- Staffed a STEM career booth at the Mesa Valley School District 51 eight grade career fair, which took place at Colorado Mesa University.
- Presented at the Environmental Science Natural Resources seminar at Colorado Mesa University.
- Presented on ecology at the Clusters Exploratory Learning Day at Pomona Elementary School.
- Presented to the Grand Junction Rotary Club.

In June, an LM senior advisor and communications liaison represented LM at a DOE-sponsored STEM expo at **John Burroughs Elementary School** in Washington, D.C. The school specifically focuses on STEM education.

In July, LM participated in the **Los Alamos ScienceFest Discovery Day**.



Senior Advisor/Communications Liaison Denise Freeman, center, represented LM at the DOE-sponsored STEM Expo at John Burroughs Elementary School in Washington, D.C., in early June.

In July, the **Fernald Preserve Site** hosted the field-testing day for the week-long National Conservation Foundation's annual Envirothon competition, held at nearby Miami University of Ohio. The Envirothon is an international program and competition that engages more than 25,000 high school students from the United States, Canada, and China.

- Students used STEM principles to gain hands-on learning experience in various outdoor fields, expanding their knowledge of the environment and natural resource conservation.

In September, LM participated in STEAM week at **Tope Elementary** in Grand Junction, Colorado.

In October, LM participated in Mav's Business Power Hour at **Colorado Mesa University (Grand Junction, Colorado)** and the **Career Day at California High School (California, Missouri)**.

In November, LM participated in **local STEM events** and activities, including:

- Career Day at California High School in Missouri.
- National Society of Black Engineers Career Options for Engineers Including Non-Traditional Engineering Jobs virtual conference.
- FIRST LEGO League Challenge Tournament with Mesa County Valley School District 51 in Grand Junction, Colorado.



Students line up at Fernald Preserve, near Hamilton, Ohio, to compete in the National Conservation Foundation's Envirothon.

## INTERPRETIVE CENTERS

LM reopened its three interpretive centers to the public on April 15. Visitors enjoyed a wide range of activities, including interactive displays, educational programs, community space, and virtual programming for those who can't attend in person. During 2022, the interpretive centers hosted nearly 250 public events and activities that interacted with 22,180 individuals.

**ATOMIC LEGACY CABIN**

**FERNALD PRESERVE**

**WELDON SPRING SITE INTERPRETIVE CENTER**

**NOW OPEN**

The Atomic Legacy Cabin sign lists the following hours:  
Tuesday 9 a.m. to 12 p.m.  
Wednesday 10 a.m. to 1 p.m.  
Thursday 1 p.m. to 4 p.m.  
www.ep.gov/epa/ohio/la.htm



# WELDON SPRING SITE

A Legacy of Service

## Weldon Spring Site Interpretive Center

LM Director Carmelo Melendez celebrated **opening the new interpretive center** at the site, near St. Charles, Missouri, on April 14. Melendez, LM and LMSP staff, former workers, and distinguished guests celebrated the center's opening with a ribbon-cutting ceremony.

In April, the new interpretive center hosted the **first on-site, in-person, hands-on program** after two years of closure due to the pandemic. An environmental studies professor from Washington University brought 30 students to the site for the "Fallout: Analyzing Texts and Narratives of the Nuclear Era" course. Students explored the exhibit gallery, hiked to the disposal cell, and participated in a hands-on Geiger counter and radiation program.

In November, LM demolished the former interpretive center.

- USACE executed the demolition work through an interagency agreement with the St. Louis District.



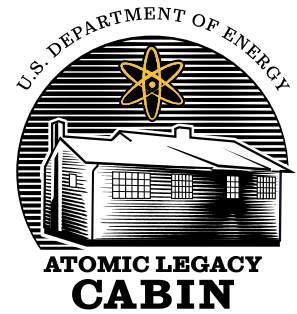
New Weldon Spring Site Interpretive Center near St. Charles, Missouri.



LM Director Carmelo Melendez, fourth from right, joins former workers and distinguished guests during a ribbon-cutting ceremony at the new Weldon Spring Site Interpretive Center on Thursday, April 14.

## Atomic Legacy Cabin

From May to August, LM's **Atomic Legacy Cabin** and the city of Grand Junction's Parks and Recreation Department partnered to provide educational programming in a unique summer camp experience.



- The partnership with the city provided hundreds of campers, ages 5-14, with the opportunity to immerse themselves in STEM education and history.
- This is the first year the campers were able to meet in person since the COVID-19 pandemic.



Atomic Legacy Cabin in Grand Junction, Colorado.



Fernald Preserve Visitors Center near Hamilton, Ohio.

## Fernald Preserve Visitors Center

In October, **DOE's Sustainability Performance Team** toured the visitors center to observe and learn about the building's efficient design.

- The building was a former warehouse and uranium foundry that was repurposed into Ohio's first Leadership in Energy and Environmental Design Platinum building.



## Cultural Resources Management

Section 106 of the National Historic Preservation Act requires federal agencies to consider the effects of their work on historic properties. Agencies must grant a reasonable opportunity for the Advisory Council on Historic Preservation to comment. If the responsible federal agency determines its work could potentially affect historic properties, it must consult with the appropriate State Historic Preservation Officer or Tribal Historic Preservation Officer.

LM completed mitigation measures at the **Piqua, Ohio, Decommissioned Reactor Site**. LM, the Ohio SHPO, and the city of Piqua completed the detailed photography effort and completed designing a scale model of the historic building.

- LM began preparing a diorama exhibit to be displayed at the local public library along with salvaged site architecture.
- LM began designing and fabricating interpretive signage, which will be displayed near the site to memorialize the significant contribution the Piqua site made to the understanding of nuclear energy science.
- In November, NPS formally accepted a Historic American Engineering Record package submitted by LM for the Piqua site.

LM continued to **streamline tribal consultation** at four LM locations on the Navajo Nation (Shiprock, Tuba City, Monument Valley, and Mexican Hat), anticipating completion in early 2023.

- When necessary, LM conducts **archaeological surveys** to identify if there are any prehistoric and historic archaeological resources that could be affected by an undertaking.

LM completed a 189-acre archaeological survey at the **Bear Creek, Wyoming, Disposal Site** in support of ongoing activity.

- LM shared the negative survey results with the Wyoming SHPO.

LM initiated Section 106 consultation on 15 undertakings in 2022; 14 of which were completed.

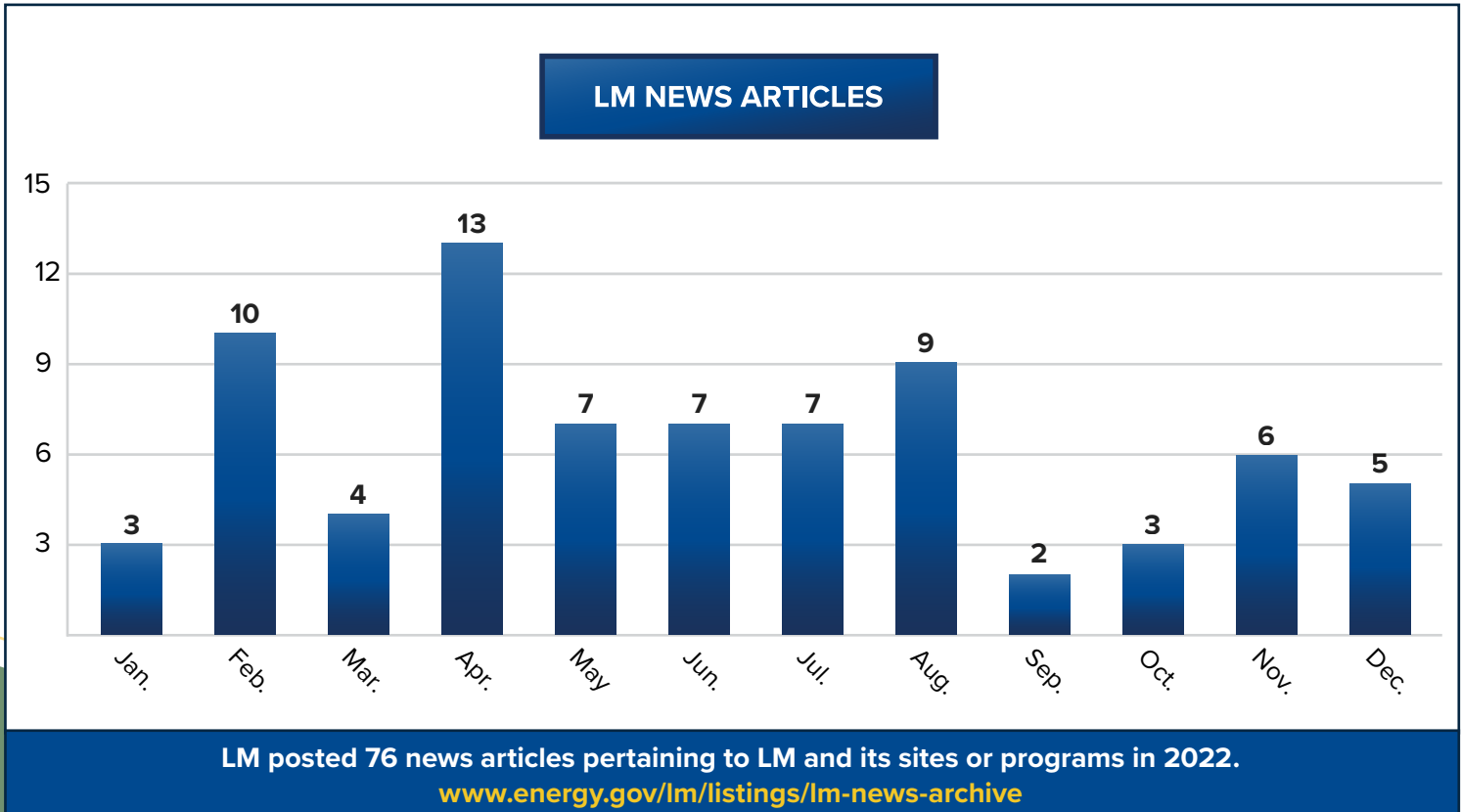
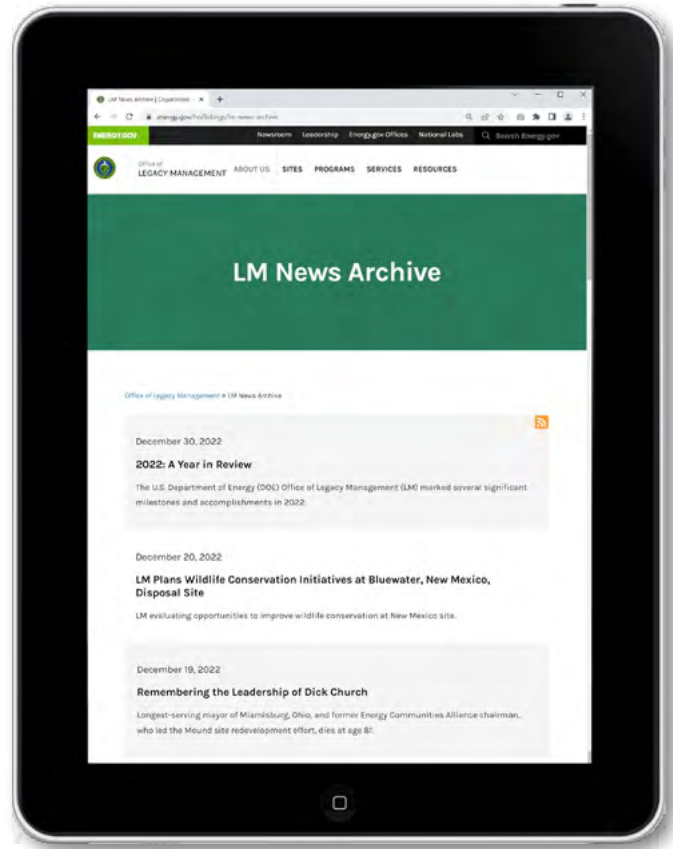
LM Site or Location	Consulted Historic Preservation Officers and Tribes	# of Section 106 Consultations Initiated	# of Section 106 Consultations Completed
Bear Creek, Wyoming	Wyoming SHPO	1	0
Grand Junction, Colorado	Colorado SHPO	2	2
ULP, Colorado	Colorado SHPO	1	1
Rifle, Colorado	Colorado SHPO	1	1
Morgantown, West Virginia	West Virginia SHPO	1	1
Westminster, Colorado	Colorado SHPO	1	1
Grand Junction, Colorado	Colorado SHPO	1	1
Gunnison, Colorado SHPO	Colorado SHPO	1	1
Pueblo of Laguna, New Mexico	Laguna Pueblo THPO	1	1
L-Bar, New Mexico	New Mexico SHPO	1	1
Monument Valley, Arizona	Navajo Nation THPO	1	1
Shiprock, New Mexico	Navajo Nation THPO	2	2
Weldon Spring, Missouri	Missouri SHPO	1	1

## Traditional Media

Throughout the year, LM and LMSP produced a total of 76 LM News articles pertaining to the agency, its sites, and programs — all of which appeared on the LM website.

LM continued to monitor traditional media with a media-monitoring service. External media activity included coverage related to:

- Rocky Flats and Rocky Flats Wildlife Refuge.
- Navajo Nation.
- DRUM program.
- FUSRAP sites.
- Coverage related to the ULP or other uranium-related content.
- Clean energy and waste cleanup.
- Sites in Utah, Nevada, New Mexico, and Arizona.
- East Tennessee Technology Park programs.
- MAPR sites.

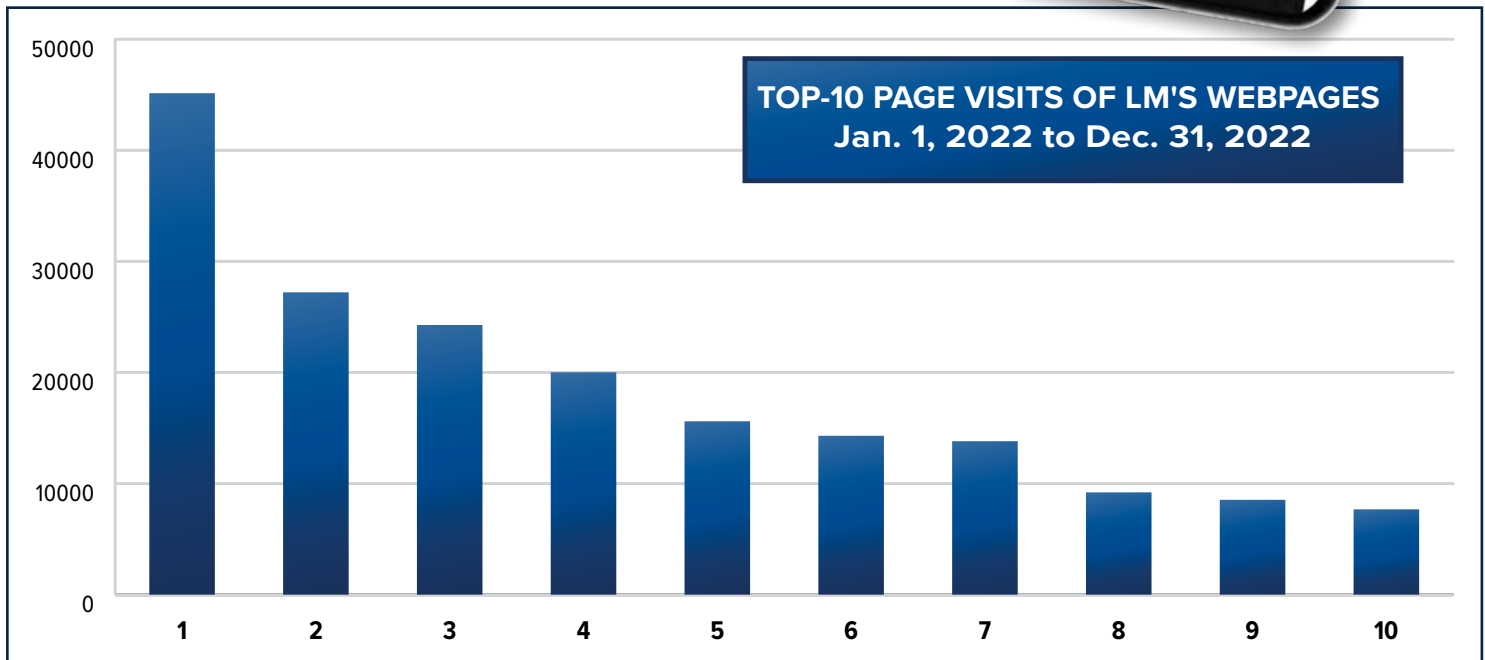
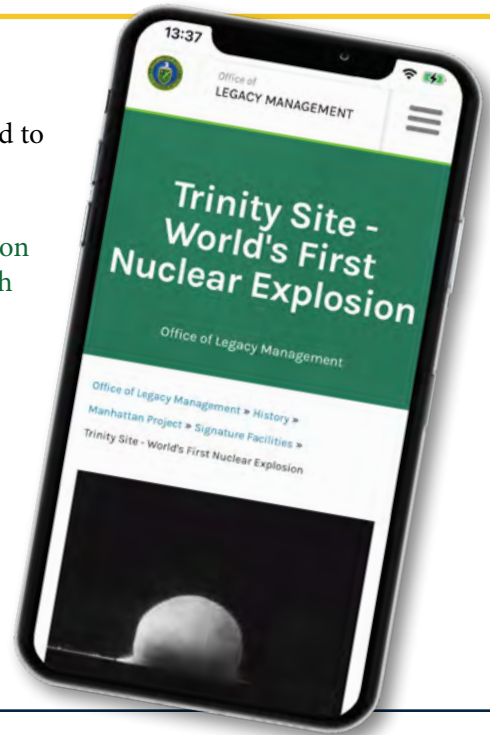




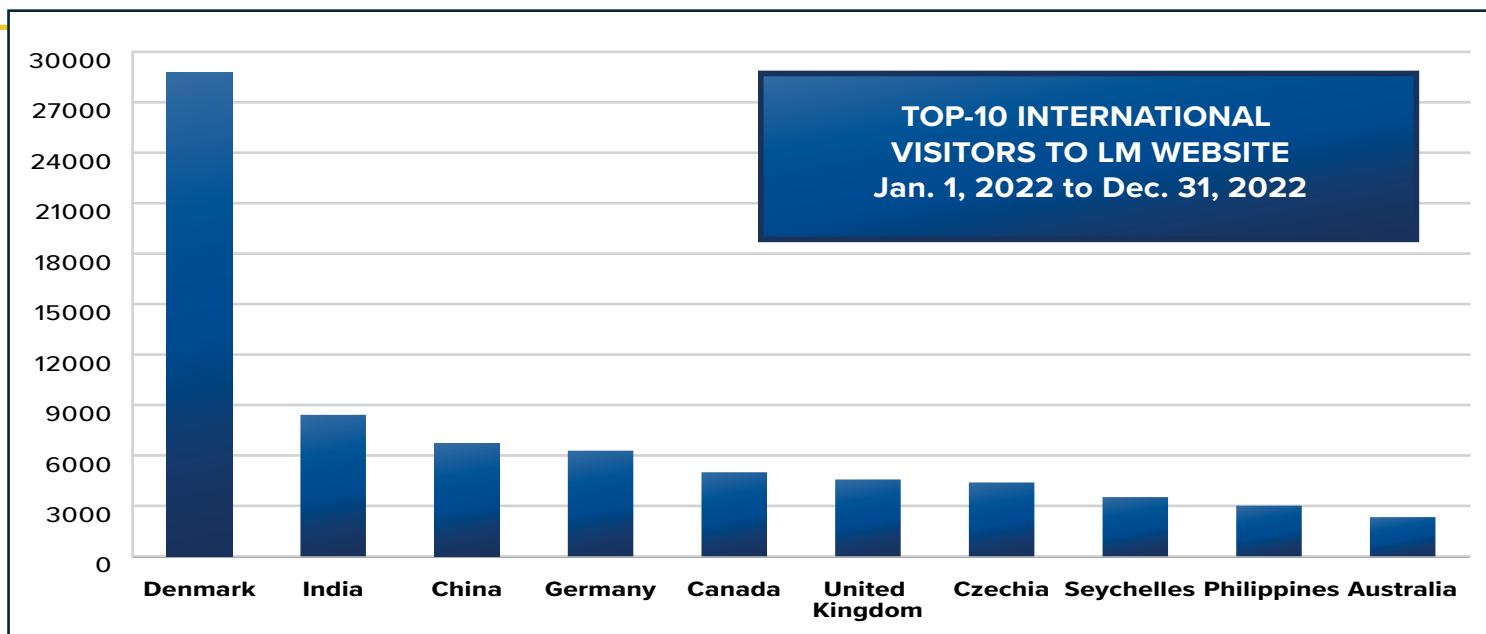
## Digital Media

LM continued to use a variety of communications methods and strategies designed to engage internal and external audiences during the COVID-19 pandemic. LM and LMSP utilized the following platforms, tools, and strategies:

- LM website.
- Facebook.
- LinkedIn.
- Elements (monthly e-newsletter).
- Weekly Media Digest (weekly update on external media coverage).
- GovDelivery (email-distribution tool used to communicate with a variety of LM audiences).
- LM Program Update (quarterly magazine).



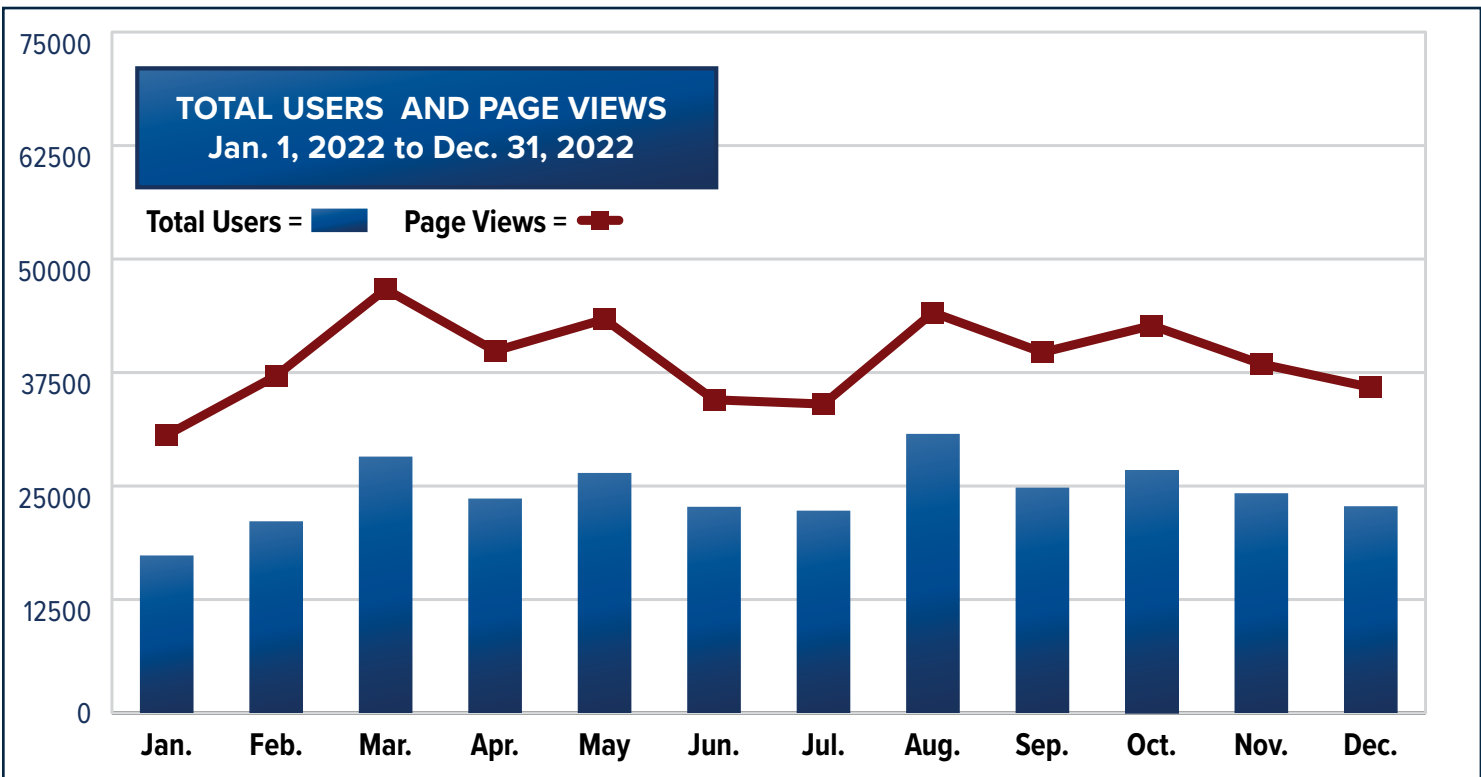
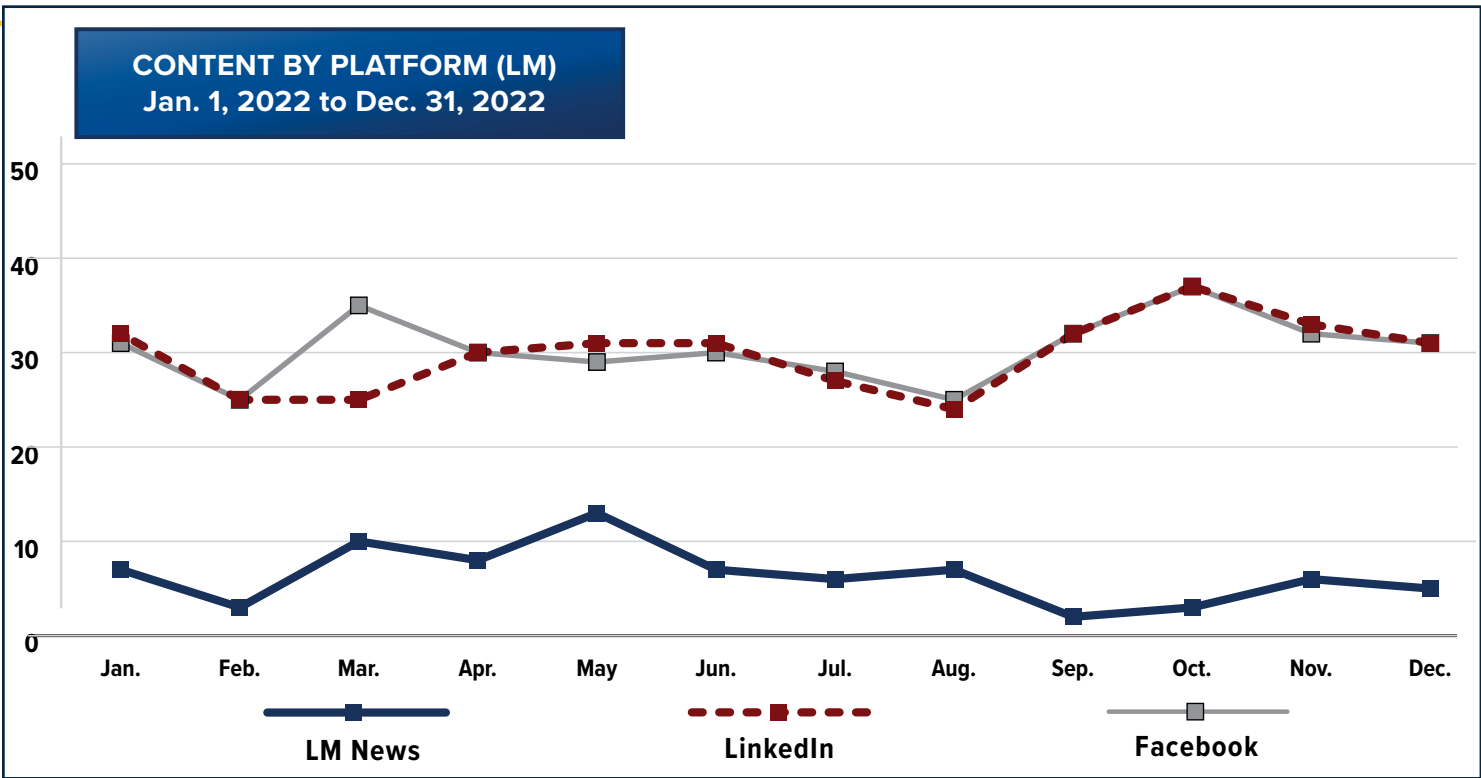
PAGE RANK	PAGE VISITS	PAGE NAME
1	45,141	Trinity Site - World's First Nuclear Explosion
2	27,217	What Is Environmental Justice?
3	24,276	Office of Legacy Management   Department of Energy
4	20,018	DOE History
5	15,608	Environmental Justice History
6	14,303	A Brief History of the Department of Energy
7	13,815	Manhattan Project Background Information and Preservation Work
8	9,209	Timeline of Events: 1991 to 2000
9	8,538	Timeline of Events: 2001
10	7,681	Secretaries of Energy



**Most Downloaded Documents from LM Website - Jan. 1, 2022 to Dec. 31, 2022\***

DOCUMENT	DOWNLOADS	CONTENT
1	358	Department of Energy, 1977-1994, A Summary History
2	253	Environmental Justice Strategy (January 2017)
3	220	Program Update: 3rd Quarter 2022 (September 2022)
4	213	Vallecitos Nuclear Center, California Site Fact Sheet (July 2021)
5	211	2020-2025 Strategic Plan
6	195	Fernald Preserve, Ohio, Site Fact Sheet (July 2021)
7	194	2019 Environmental Justice Second Five-Year Implementation Plan
8	167	Environmental Justice Implementation Progress Report Fiscal Year 2020
9	165	UMTRCA Title I and II Disposal and Processing Sites Fact Sheet (July 2021)
10	151	Site Management Guide (March 2022)

\*These numbers don't include metrics from the LM public search file repository.



LM’s social media presence included [LinkedIn](#) and [Facebook](#) as well as videos on [DOE’s YouTube channel](#). At the end of 2022, LM had **1,984 followers on LinkedIn** and **586 followers on Facebook**. LM had **151 videos on DOE’s YouTube channel**.

Videos documenting all LM sites are available on LM’s Facebook page and the LM playlist on the DOE YouTube channel. To date, these videos have received **12,847 views on Facebook** and **100,674 views on YouTube**.

As of Dec. 31, 2022, **10,022 people subscribed to the Elements newsletter**, with an average 41% open rate and 2% click rate.

- Open rate is the percentage of email subscribers who received this bulletin and opened it at least once.
- Click rate is the percentage of recipients who clicked at least one link in the bulletin.

# PROGRAM UPDATE ARTICLES BY ISSUE

## Quarter 1

- Legacy Management Addresses Educational and Career Equity in Cibola County, New Mexico, by Introducing STEM with LM.
- Collaboration with University Students Helps With Remedial Efforts at LM Site.
- Navajo Nation STEM-sation Events Impact Students Both Virtually and in Person.
- Multiuse Window Rock Office Provides Partner Agencies.
- Access to LM in Centralized Location.
- B & T Metals: The African American-Owned Company that Played a Key Role in the Manhattan Project.
- This Black History Month, Melinda Downing Celebrates and Reflects on 50 Years at DOE.
- EPA Celebrates Weldon Spring Site on Beneficial Reuse in New Case Study.
- Annual Historical Summary Highlights LM's Work, Accomplishments.
- Recognizing Excellence: LM Honors U.S. Army Corps of Engineers' Commitment to FUSRAP.
- LM Wins DOE's GreenSpace Award for Purchasing Environmentally Preferable Products.
- LM Launches Campaign to Address Abandoned Uranium Mines on Tribal Lands.
- LM Gets Community Involved During Shiprock Baseline Aerial Survey.
- Amid Ongoing Pandemic, LM Supports Remediation Projects Abroad.
- LM Staff Engages With Students at STEM Events in Grand Junction.
- Preservation and Perseverance: LM's David Von Behren Believes in Both.
- Tiffany Drake is LM's Newest Advocate for Equity in STEM Education.



## Quarter 2

- LM Interpretive Centers Reopen April 15.
- LM, Partners Welcome Community into New Weldon Spring Site Interpretive Center.
- Aha Nature Moments: Fernald Preserve's Answer to Educational Virtual Programming During the COVID-19 Shutdown.
- LM Grows Solar Power Use to 136 Active Systems.
- LM Staff Leads STEM with LM Outreach in Denver.
- How LM Observes Earth Day, Every Day.
- Turning Vulnerabilities into Plans of Action.
- LM Completes Milestone Goal for DRUM Program.
- NEJC Conference Identifies EJ Opportunities, Trends.
- Legacy Management Participates in Western Colorado Children's Water Festival.
- DOE's Ingrid Colbert: Balancing Numbers and Promoting Women's Mentorship.
- The Office of Legacy Management Rolls Out Fiscal Year 2023 Budget Request.
- After Guiding Startup of New Historical Park, Tracy Atkins Ends LM Career.
- CERCLA/FUSRAP Supervisor Gwen Hooten Retires.
- DRUM Manager Looks Forward to Life After Long, Satisfying Career.



## Quarter 3

- Saddling Up for Success: Site Visits in Washington State.
- LM Receives Electronic Product Environmental Assessment Tool (EPEAT) Purchaser Award.
- LM Pursues New Technology Solutions to Better Protect People and the Environment.
- LM Hosts Annual STEM Envirothon Competition.
- Tour of Abandoned Uranium Mines in Navajo Nation Demonstrates Successful Reclamation and Safeguarding Techniques.
- LM's New Arizona Office Provides Better Support for Outreach in Navajo Nation.
- Team Goes Above and Beyond to Complete Amchitka Island Projects Wildfire Season No Longer Has a Start Date.
- LM Completes Drilling, Installation of Monitoring Wells at Shiprock, New Mexico, Disposal Cell.
- As Pandemic Restrictions Lift, LM Staff Leads Elected Officials on Tour of Disposal Site.
- Mine Reclamation Work Resumes on Uranium Lease Tracts in Southwest Colorado.
- LM Reengages Partners in Visit to BONUS Site.
- LM Tours USACE North Atlantic Division FUSRAP Sites.
- Jay Glascock is Living His Dream.
- From Administrative Assistant to Management Analyst, Jeanie Gueretta's 40-Year Federal Career Draws to a Close.
- American Association of Blacks in Energy's Second Quarter Meeting 2022 Community Leaders Institute.
- TREAT Workshop Provides Radiation Information to Educators.
- Origin Story: The Department of Energy History Program.
- Biopic Piques Interest in Life of J. Robert Oppenheimer.



## Quarter 4

- LM International Efforts Continue to Support Remediation and Stewardship Projects Worldwide.
- LM Representatives Attend IAEA Forum in Vienna, Austria.
- LM Has Wide Range of Technical Expertise.
- LM Collaborates With Central Asian Partners at IAEA Conference.
- Environmental Justice Program Manager Takes Part in Teaching Radiation, Energy and Technology for Community Leaders Workshop.
- DRUM Team and Tribal Partners Perform Fieldwork at Navajo Nation Abandoned Uranium Mines.
- CEQ Chair Brenda Mallory Marks 50 Years of the Clean Water Act.
- AS&T Looks to Mother Nature to Guide Site Management.
- FUSRAP Historical Display Unveiled in Washington, D.C.
- After Nearly Four Decades of Federal Service, Program Manager Calls it a Career.
- Bill Frazier Honored as Employee of the Year.
- Bob Walker Honored as Employee of the Year.
- Program Director Discusses LM's Mission at Mine Lands Conference.
- LM Attends Annual Fall AISES Conference in California.
- Partnership Gives LM Interns a Head Start on Their Careers.
- Rocky Flats Retirees Tour Former Plant Site.
- Rocky Flats Site Upgrades Treatment System Solar Technology and Supports Nonprofit.
- A Transition Window With a Beautiful View.



# ADDITIONAL RESOURCES

## LM Site Management Guide

An annually updated guide that provides:

- Site name and location (state).
- Pre-LM name.
- Transferring organization.
- Actual transfer date (FY).
- Planned transfer date (FY).
- Regulatory drivers and programmatic framework.
- Site category.

See the most recent version of the Site Management Guide:

[www.energy.gov/lm/downloads/site-management-guide](http://www.energy.gov/lm/downloads/site-management-guide).

## Annual Site Sustainability Plan

Site Sustainability Plans fulfill the requirements of DOE Order 436.1, Departmental Sustainability, and summarize LM accomplishments during the reporting period as well as plans to further site sustainability and enhance climate mitigation efforts. Available at [www.energy.gov/lm/ems-goalsprogressplansreports](http://www.energy.gov/lm/ems-goalsprogressplansreports).

## Annual Site Environmental Reports

In September, LM released the Annual Site Environmental Report, which provides another valuable overview of LM activity from the previous year. LM submits ASER, which documents site environmental conditions and reporting requirements, to the DOE Office of Environmental Protection and Environment, Safety, and Health Reporting and is available to the public at: [www.energy.gov/lm/ems-goalsprogressplansreports](http://www.energy.gov/lm/ems-goalsprogressplansreports).

## Site-Specific Information and Annual Reports

Site-specific webpages and reports, including CERCLA Five-Year Reviews, are accessible at: [www.energy.gov/lm/sites/lm-sites](http://www.energy.gov/lm/sites/lm-sites).

## DRUM and AUMWG

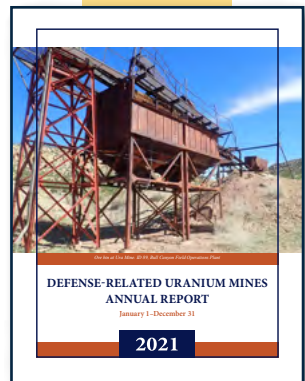
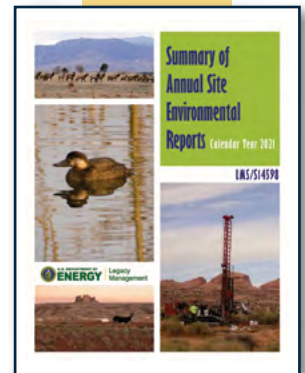
The latest annual reports for the DRUM program and AUMWG are available at: [www.energy.gov/lm/defense-related-uranium-mines-program](http://www.energy.gov/lm/defense-related-uranium-mines-program).

## National Environmental Policy Act Documents

Available NEPA documents for DOE, including LM, are available on the DOE Office of NEPA Policy and Compliance website at: [www.energy.gov/nepa/nepa-documents](http://www.energy.gov/nepa/nepa-documents).

## DOE History Timeline

An online resource to provide the public with easy access to accurate information about the history of DOE and its predecessor agencies. The timeline includes links to reports, speeches, press releases, and other documentation. Available at: [www.energy.gov/lm/doe-history/doe-history-timeline](http://www.energy.gov/lm/doe-history/doe-history-timeline).





# 2022: A YEAR IN PHOTOS



LM partnered with multiple DOE offices during the AISES conference in Palm Springs, California.



Justice Right delivers remarks to the MES Panel.



Students compete in the Envirothon competition at Fernald Preserve.



USACE begins demolishing the former Weldon Spring Site Interpretive Center.



LM Weldon Spring Site Manager Rebecca Roberts and local historian Dr. Daniel Brown at the new Weldon Spring Site Interpretive Center.



DRUM, Navajo AML, and Navajo EPA visiting mine sites on the Navajo Nation.



The Kings County Parks and Grounds Department hosted LM Director Carmelo Melendez (far left) and LM staff during a tour of the Burris Park, California, Site



Director Carmelo Melendez visits with USACE Buffalo District Commander Lt. Col. Eli Adams (center) and LM Project Manager Brent LaSpada.



David Shafer, left, participates in the IAEA's Working Forum on Regulatory Supervision of Legacy Sites in Vienna, Austria, in October 2022.



# 2022: A YEAR IN PHOTOS



**Ken Kreie and Angelita Denny at a STEM Day event.**



**NEJC Conference facilitator Carolyn Sawyer, left, facilitates a presentation and discussion.**



**Abandoned uranium mines tour on the Navajo Nation.**



**LM FUSRAP Manager Darina Castillo with the FUSRAP historical display at the 2022 Waste Management conference.**



**LM Site Manager Kate Whysner at Pomona Elementary School's Science Night at EUREKA! McConnell Science Museum in Grand Junction.**



**LM Director Carmelo Melendez and LM staff tour the Laboratory for Energy-Related Health Research, California, Site with University of California, Davis staff.**



**Site Manager Sara Woods, right, and LMSP Operations Manager Sam Campbell, third from right, speak with the students from Scenic Elementary School.**



**LMSP staff demonstrate groundwater sampling techniques during the STGWG spring meeting at the Weldon Spring Site.**



**LMSP and Navajo Nation AML staff with Shiprock disposal site stakeholders at an informational kiosk at Bashas supermarket.**

## LM BY THE NUMBERS (12/31/2022)



# 18,237

acres of land with LTS&M  
(not including ULP property).



# 117

sites projected to be under  
LM's responsibility by 2026.



# 584

total employees: **70** federal  
employees and **507** support  
services contractor personnel.



# 50

LM properties available for reuse,  
with more than **95%** of LM sites  
in beneficial reuse.



# 101

LM sites in **30** states and territories,  
including Puerto Rico, creating a  
national program with a wide  
set of responsibilities.



# 9,300

retired contractor workers'  
commitments managed by LM,  
related to the Cold War nuclear  
legacy. Currently about  
**85,000** cubic of feet of records  
are stored in house.

## LM BY THE NUMBERS (12/31/2022)



# 120,000

cubic feet of storage at the LMBC in Morgantown, West Virginia, to store non-classified records.



# 2,472

approximate number of groundwater samples.



# 1,677

estimated number of surface water samples.



# 440+

Estimated number of site inspections:

- **42** for CERCLA/FUSRAP.
- **41** for UMTRCA.
- **332** validation and verification field visits for DRUM.
- **31** for ULP.



# 582,118

Estimated number of miles traveled for post-closure responsibilities.



U.S. DEPARTMENT OF  
**ENERGY**

Legacy  
Management



[www.energy.gov/lm](http://www.energy.gov/lm)



[www.linkedin.com/showcase/office-of-legacy-management](http://www.linkedin.com/showcase/office-of-legacy-management)



[www.facebook.com/OfficeofLegacyManagement](http://www.facebook.com/OfficeofLegacyManagement)