



Monument Valley, Arizona, Processing Site **COMMUNITY INVOLVEMENT PLAN**



U.S. DEPARTMENT OF ENERGY OFFICE OF LEGACY MANAGEMENT

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SECTION 1: OVERVIEW

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) developed this *Community Involvement Plan* (CIP) to facilitate communication and encourage community involvement within Navajo Nation communities surrounding the Monument Valley, Arizona, Processing Site. LM will use the community involvement activities outlined in this plan to ensure community members in Monument Valley and Cane Valley are informed and provided opportunities to be involved.

LM plans to support public awareness of the Monument Valley site through the following activities:

- Inform the public about current and planned activities related to the site.
- Educate the public about site activities.
- Provide public access to site information, reports, and other documents.
- Promote use of the LM website as a source of information.

LM will foster communication with site stakeholders by:

- Participating in regular meetings with stakeholders.
- Sharing information.
- Remaining open to all input and suggestions.

Multiple information sources were used to develop this plan, including community interviews and feedback, site files, and community meeting records.



SECTION 2: SITE OVERVIEW

2.1: HISTORY

The site is located on the Navajo Nation in northeastern Arizona, approximately 15 miles south of Mexican Hat, Utah, on the west side of Cane Valley. A uranium ore processing mill operated at the site from 1955 to 1968 on property leased from the Navajo Nation. The mill closed in 1968, and control of the site reverted to the Navajo Nation. Most of the mill buildings were removed shortly thereafter.

Uranium was first discovered in 1942, approximately 0.5 mile west of the site. From 1955 until 1964, ore at the site was processed by mechanical milling using an upgrader, which crushed the ore and separated it by grain size. The finer-grained material, which was higher in uranium content, was shipped to other mills for chemical processing. Coarser-grained material was stored on-site and later reprocessed at the site through a sulfuric acid batch leach process that was used at the mill from 1964 until 1968.

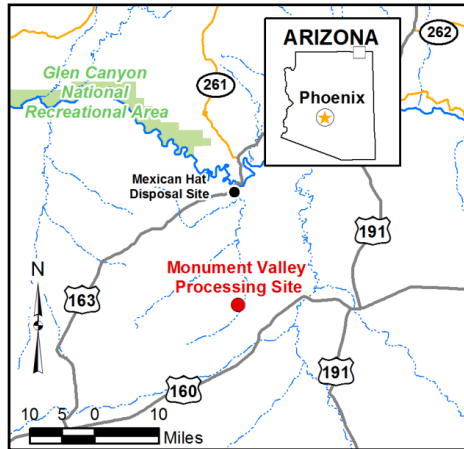
The milling process also produced radioactive mill tailings, a predominantly sandy material. Source materials and other site-related contamination were removed during surface remediation at the site from 1992 through 1994. All contaminated materials from the Monument Valley processing site were transported north (approximately 15 miles) and encapsulated in the Mexican Hat, Utah, disposal cell. However, analyses of sub-pile soil samples (samples collected beneath the “footprint” of the former tailings piles) at the site indicate contaminants in these soils may be a continuing source of groundwater contamination. Ammonium in the sub-pile soil can degrade and contribute to nitrate contamination in groundwater.

REGULATORY SETTING

The Uranium Mill Tailings Radiation Control Act (UMTRCA) of 1978 (42 USC §7901, as amended) provides regulations for the remediation (or reclamation) and long-term care of uranium mill tailings under either Title I or Title II of the act. Title I addresses former uranium milling sites that were unlicensed as of January 1, 1978, and essentially abandoned. Title II addresses uranium milling sites under specific license as of January 1, 1978. In both cases, the licensing agency is the U.S. Nuclear Regulatory Commission (NRC), or in the case of certain Title II disposal sites, an Agreement State. The Monument Valley processing site is regulated under Title I of UMTRCA. The state of Arizona is an Agreement State. However, the site is located on Navajo Nation land, which precludes state jurisdiction.

LM is responsible for the custody and long-term care of the Monument Valley site.

2.2: SITE DESCRIPTION AND LOCATION



Location of the Monument Valley, Arizona, Processing Site

After a local resident discovered uranium in the area in 1942, the Vanadium Corporation of America opened the Monument No. 2 Mine, located approximately 0.5 mile west of the site. The Monument No. 2 Mine produced more uranium than any other mine in Arizona and provided ore to the processing site. Strip mining and underground mining were conducted at the Monument No. 2 Mine from 1943 until the mill closed in 1968.

Before 1955, there was no mill at the site and all ore was hauled to uranium mills in Durango and Naturita, Colorado. Mill operations began at the Monument Valley site in 1955. From 1955 through 1964, the mill was a mechanical separator. In this operation, ore was crushed and sorted by grain size. The finer-grained material, which was higher in uranium content, was shipped off-site for chemical concentration at the Durango and Naturita mills. (No chemicals were used at the site other than minor amounts of flocculants. However, large amounts of water were used to separate the fine- and coarse-

grained materials. The coarser-grained material remained on the site and was piled in the areas identified as former mill and old tailings. The water came from on-site wells drawing from the De Chelly Formation.

Batch leaching equipment was installed in 1964. This process continued for approximately three years, during which time approximately 1 million tons (900,000 metric tons) of sandy tailings were processed (approximately 900 tons, 1,800 metric tons per day). A separate heap leaching operation was used on an additional 100,000 tons (90,000 metric tons) of low-grade ore.

The mill site was leased from the Navajo Nation until 1968, when the mill closed and the lease expired. Control of the site, structures, and materials reverted to the Navajo Nation at that time. The mill buildings and milling equipment were removed sometime after 1968 when site processing operations ceased. Little or no site activity occurred until 1992, when removal of the tailing piles, windblown tailings, concrete foundations, and debris from the site began. Approximately 1.3 million dry tons of contaminated materials were removed from Cane Valley. These materials were placed in the disposal cell located near Mexican Hat, Utah. The relocation of these materials was completed in January 1994.

A vicinity property, approximately 1 mile (1.6 km) east of the processing site along Cane Valley Wash, was remediated during surface cleanup of the site. This property was the northern frog pond and sections of the old haul road north of the frog ponds. Approximately 15,000 cubic yards (11,000 cubic meters) of contaminated materials were removed.

During 2000 through 2003, a domestic water supply system was installed to provide potable water to all Cane Valley residents. This project was achieved through an interagency agreement between the Indian Health Service and DOE. The project also consisted of the installation of individual septic systems and electricity distribution. The Navajo Tribal Utility Authority retains responsibility for operation, monitoring, and maintenance of the water supply system.



SECTION 3: COMMUNITY BACKGROUND

3.1: COMMUNITY PROFILE

The community directly adjacent of the Monument Valley site is located within the Navajo Nation and is within the local governmental jurisdiction of the Dennehotso Chapter,* a local Navajo Nation government entity. However, many residents of Cane Valley identify with the Oljato Chapter. According to the U.S. Census Bureau's 2015-2019 American Community Survey 5-Year Estimates, Dennehotso CDP, Arizona, which encompasses Cane Valley and Dennehotso communities, has a population of 216 people and 71 housing units. Of these housing units:

- 40 are occupied housing units.
- 31 are vacant housing units.
- 72.5% are family households.
- 33.5% are husband-wife family households.
- 22.5% are single female head of households.
- 8% are single male head of households.
- 36% are nonfamily households.
- 29.9% are households with children under the age of 18.
- 49.7% are households with individuals 60 years and older.
- The average household size is 3.91.
- The average family size is 5.38

Racial makeup is:

- 99.4% Native American.
- 99.4% are Navajo tribal group.
- 0% Hispanic or Latino.
- 0% Caucasian.
- 0.6% two or more races.
- 0% Asian or Pacific Islander.
- 0% other races.
- 0% Black or African-American and American Indian and Alaska Native.

Age distribution of the population shows:

- 24.5% under the age of 19.
- 10.6% from 20 to 24.
- 14.2% from 25 to 34.
- 12% from 35 to 44.
- 18.2% are 45 to 54.

*Data was obtained from the Dennehotso Census County Division (Apache County, Arizona) in the 2019 American Community Survey 5-Year Estimates. Values are estimates and may not reflect the actual demographics of the Cane Valley community.



- 20.5% are above the age of 55.
- 35.8% are the median age.

The median household income in Monument Valley, Arizona, is \$18,750. Approximately 76.9% of individuals live below the poverty level.

Educational institutions that serve the Monument Valley and Cane Valley communities include:

- Tse'biinidzizgai Elementary School.
- Monument Valley Mission School.
- Monument Valley High School.
- Utah State University Eastern at Monument Valley.

Education attainment:

18 to 24 years of age:

- 79.5% are high school graduates.
- 11.6% have some college.
- 1.9% have a bachelor's degree or higher.

25 Years or older:

- 15.8% attended grades nine to 12 (no diploma).
- 36.8% are high school graduates.
- 37.9% have some college, no degree.
- 9.5% have an associate's degree.
- 0% have a bachelor's degree.
- 0% have a graduate or professional degree.

3.2: COMMUNITY INVOLVEMENT

Remedial action began at the Monument Valley processing site in 1992 and was completed in 1994. DOE's involvement with the Navajo Nation continues today with participation in technical meetings, community open houses, and other outreach events. It is mission critical for LM to work and collaborate with affected communities to ensure their health and the environment are protected. In-person meetings are opportunities for LM to gather with stakeholders to discuss and address their concerns relating to ongoing groundwater remediation activities, technical studies conducted on behalf of tribal agencies, and any potential community impacts.

Under a cooperative agreement, LM works with the Navajo Nation Abandoned Mine Lands (AML) Reclamation/Uraniun Mill Tailings Remedial Action (UMTRA) Department to conduct long-term surveillance and maintenance at the four Navajo Nation sites in Monument Valley and Tuba City, Arizona; Mexican Hat, Utah; and Shiprock, New Mexico, to ensure community and environmental safety. LM also works with a variety of departments within the Navajo Nation government to help identify and protect cultural resources.



In 2007, Congress directed five federal agencies, including DOE, the U.S. Environmental Protection Agency (EPA), Bureau of Indian Affairs (BIA), U.S. Department of Health and Human Services, NRC, and the Centers for Disease Control and Prevention (CDC), to work collaboratively with the Navajo Nation to address uranium issues on the Navajo Nation through a Five-Year Plan Community Outreach Network.

The Office of Legacy Management organized a Tribal Intergovernmental Relations Group (TIGR) comprised of LM, Hopi, and Navajo counterparts was created to elevate community outreach and engagement with the Hopi and Navajo communities. The group was designed to provide tribal information sharing and to understand the lines of communication between all tribal and government entities.

In June 2016, LM and its contractor, Navarro Research and Engineering, Inc., opened an outreach office in Window Rock, Arizona. The Window Rock outreach office provides a place for the public to learn about LM and the sites on the Navajo Nation, the Navajo Nation Five-Year Plan, and the work being conducted to address uranium issues within the Navajo Nation. The office, staffed with full-time DOE LM contractors and the Community Outreach Network coordinator. Contracting staff and the network coordinator work together to participate and identify activities and outreach to affected communities. The office has brochures from all of the Community Outreach Network members available to the public that may have questions about uranium issues. The office is open during business hours and provides a space for Community Outreach Network members to work when visiting Window Rock.

3.3: OUTREACH EVENTS

In recent years, LM has attended, participated in, and/or led the following outreach events to support outreach efforts related to the Navajo Nation sites:

2014

- December 5-6: Discovery Festival, Farmington, New Mexico.
- December 12-14: Monument Valley, Utah, Balloon Festival.

2015

- February 18: LM, Navajo, and Hopi Quarterly Meeting and Technical Exchange.
- March 24-26: Navajo Land Summit II, Twin Arrows, Arizona.
- May 1-2: Shiprock, New Mexico, Marathon.
- May 26: Developing Productive Tribal Government and Community Relations Training.
- June 3-4: Traditional Law and Cultural Awareness Training, Grand Junction, Colorado.
- June 24: LM, Navajo, and Hopi Quarterly Meeting and Technical Exchange.
- July 2: Tuba City, Arizona, Chapter House Planning Meeting (presented to Chapter officials).
- September 23-25: LM Tribal Summit.
- September 27-30: National Association of Abandoned Mine Land Programs Conference, Santa Fe, New Mexico.
- October 15: EPA Senior Leadership Meeting at Navajo Nation President's Office, Window Rock, Arizona.
- October 15-18: Western Navajo Nation Fair, Tuba City, Arizona.
- October 16-17: Discovery Festival, San Juan, New Mexico.



- October 27: LM, Navajo, and Hopi Quarterly Meeting and Technical Exchange.
- October 28: Navajo Five-Year Plan Outreach Network Meeting.
- November 2: Oljato, Utah, Chapter House Planning Meeting (presented to Chapter officials).
- December 6: Shiprock, New Mexico, Regular Chapter House Meeting (presented to the public).
- December 4-6: Monument Valley, Utah, Balloon Festival.

2016

- February 17: LM, Navajo, and Hopi Quarterly Meeting and Technical Exchange.
- February 18: Tuba City, Arizona, Technical Presentations.
- March 9-12: National Environmental Justice Conference and Training Program, Washington, D.C.
- March 19: Western Agency Chapter Meeting.
- March 29-31: Navajo Division of Natural Resources Summit, Flagstaff, Arizona.
- April 5: Tuba City, Arizona, Site Tour for Regulators and Agency Officials.
- April 6: Tuba City, Arizona, Public Open House and Scoping Meeting.
- April 7: Mexican Hat, Utah; and Monument Valley, Arizona, Site Tours for Regulators and Agency Officials.
- April 8: Navajo Five-Year Plan Outreach Network Meeting, Monument Valley, Utah.
- April 9: Public Open House at Monument Valley, Utah.
- August 24: LM, Navajo, and Hopi Quarterly Meeting and Technical Exchange.
- August 30-September 1: Citizen Participation Training.
- September 6-11: 70th Annual Navajo Nation Fair, Window Rock, Arizona.
- September 27-October 2: Northern Navajo Nation Fair, Shiprock, New Mexico.
- October 7-8: Discovery Festival, San Juan, New Mexico.
- October 13-16: Western Navajo Nation Fair, Tuba City, Arizona.
- October 17-21: Radiation 101 Training.
- October 21: Tuba City, Arizona, Open House and Public Site Tour.
- November 15-16: LM, Navajo, and Hopi Quarterly Meeting and Technical Exchange.
- November 17-19: Monument Valley, Utah, Balloon Festival.
- December 9: Shiprock, New Mexico, Christmas Parade of Lights.

2017

- January 24 and 26: Presented with Navajo Nation AML/UMTRA at Diné College Campuses in Tsaile, Arizona; Shiprock, New Mexico.
- January 25: Window Rock, Arizona Open House with Navajo Nation Council Delegates.
- February 27: Governance Conference, Albuquerque, New Mexico.
- February 27: Health Education and Human Services Committee Meeting, Window Rock, Arizona.
- March 1: LM, Navajo, and Hopi Quarterly Meeting and Technical Exchange, Flagstaff, Arizona.



- March 24: Navajo Five-Year Plan Outreach Network Meeting, Window Rock, Arizona; Shiprock, New Mexico.
- March 25: Shiprock, New Mexico, Fun Run and Site Tour.
- April 11: Eastern Agency Abandoned Uranium Mines (AUMs) Open House, Gallup, New Mexico.
- April 12: Navajo Utah Commission Presentation, Mexican Water, Utah.
- April 15: Tuba City, Arizona, Site Tour for Shonto Middle School Students.
- April 27-28: Tuba City, Arizona, Site Tour for Tuba City Middle School Students.
- May 1: Navajo Utah Commission Presentation, Window Rock, Arizona.
- May 8-12: LM Director Navajo Nation Uranium Mill Tailings Radiation Control Act Site Visit, Arizona, Colorado, New Mexico, Utah.
- July 24-26: LM, Navajo, and Hopi Quarterly Meeting, Grand Junction, Colorado.
- July 20-22: Youth Day at the Boys and Girls Club and Parade, Crownpoint, New Mexico.
- September 5-10: 71st Annual Navajo Nation Fair, Window Rock, Arizona.
- September 21-23: American Indian Science and Engineering Society Conference, Denver, Colorado.
- October 5-10: Northern Navajo Nation Fair, Shiprock, New Mexico.
- October 12-15: Western Navajo Nation Fair, Tuba City, Arizona.
- October 18-19: Tuba City, Arizona/Moenkopi Open House and Site Tour.
- November 7-8: LM, Navajo, and Hopi Quarterly Meeting, Shiprock, New Mexico.
- November 15-17: Navajo Nation Division of Natural Resources Summit, Flagstaff, Arizona.
- November 17-18: Monument Valley Balloon Festival, Monument Valley, Utah.
- December 4: Keshmish Tree Lighting Ceremony, Window Rock, Arizona.

2018

- January 3: Oljato, Utah, Chapter House Planning Meeting (presented to Chapter officials).
- January 7: Oljato, Utah Regular Chapter House Meeting (presented to the public).
- January 8: Kayenta, Arizona, Kayenta Township Meeting (presented to the commission and public).
- January 25: Dine' Uranium Remediation Advisory Commission (DURAC) Meeting, Tse Bonito, New Mexico.
- January 30: Coconino County Supervisor Meeting, Flagstaff, Arizona.
- February 5: Dennehotso, Arizona, Chapter House Planning Meeting (presented to Chapter officials).
- February 10: Navajo YES Lower Colorado Marathon AUM/UMTRA Outreach, Cameron, Arizona.
- February 11: Dennehotso, Arizona, Regular Chapter House Meeting (presented to public).
- March 7-8: LM, Navajo, Hopi Quarterly Meeting and Technical Exchange.
- March 14: STEM-sation Day Outreach, Shiprock High School, Shiprock, New Mexico.
- March 17: Restoring K'é Conference 2018, Shiprock Youth Center, Shiprock, New Mexico.
- March 29: DURAC Meeting, Cove, Arizona.
- April 5: STEM-sation Day Outreach, Greyhills Academy High School, Tuba City, Arizona.



- April 8: Oljato, Utah, Regular Chapter House Meeting (presented to the public).
- April 14-15: Mexican Hat and Monument Valley, Utah, Community Information Meetings.
- April 25: Diné College 50th Anniversary STEM Fest, Diné College, Tsaile, Arizona
- April 25-27: National Environmental Justice Conference, Washington, D.C.
- May 4: Shiprock, New Mexico, Marathon.
- May 8-10: Navajo AML/UMTRA OSM Coal Field Communications Training, Window Rock, Arizona.
- May 24: DURAC Meeting, Blue Gap Chapter House, Blue Gap, Arizona.
- June 26-27: LM, Navajo, Hopi Quarterly Meeting and Technical Exchange, Flagstaff, Arizona.
- June 28: DURAC Meeting, Mariano Lake, New Mexico.
- September 5-8: Navajo Nation Fair.
- October 3-6: Northern Navajo Nation Fair.
- October 11-13: Western Navajo Nation Fair.

2019

- Jan. 24: STEM-sation Event, Pinon High School, Pinon, Arizona.
- Jan.24: DURAC Meeting at Sanders Chapter in Sanders, Arizona.
- March 8: Tuba City Site Tour w/Chris Yazzie & U of A students, Tuba City, Arizona.
- March 19: Scoping Meeting for Church Rock Uranium Mine, Gallup, New Mexico.
- March 27: DURAC Tour of Ambrosia Lake, Ambrosia Lake, New Mexico.
- March 28: STEM-sation Event, Window Rock High School, Fort Defiance, Arizona.
- March 28: DURAC Meeting at Navajo Technical University, Crownpoint, New Mexico.
- April 10: STEM-sation Event at Thoreau High School, Thoreau, New Mexico.
- April 17: Wingate High School Career Fair, Fort Wingate, New Mexico.
- April 22: Nuclear Nation Film Fest, Gallup, New Mexico.
- April 24-25: Dine' College Annual STEM Fest, Tsaile, Arizona.
- April 26: STEM-sation Event, Ganado High School, Ganado, Arizona.
- May 3-4: Shiprock Marathon Outreach, Shiprock, New Mexico.
- May 15: Tuba City Site Tour for DURAC members, Tuba City, Arizona.
- May 16: DURAC Meeting in Tuba City, Arizona.
- June 7: STEM-sation Event, Shiprock High School, Shiprock, New Mexico.
- June 7: Water Purification Unit & Info Demo w/Chris Yazzie, Dine' College, Tsaile, Arizona.
- June 13: Laguna Summer Youth Presentation w/LM, Laguna, New Mexico.
- June 19-21: Navajo Nation Division of Natural Resources Conference, Twin Arrows Navajo Casino Resort, Flagstaff, Arizona.
- June 22: Community Outreach Network Uranium 101 Workshop, Mariano Lake Chapter House, Mariano Lake, New Mexico.



- July 10: Community Outreach Network Uranium 101 Workshop, Cove Chapter House, Cove, New Mexico.
- July 13: 40th Annual Uranium Tailings Spill Commemoration, Churchrock, New Mexico.
- July 1: DURAC Meeting at Chilchinbeto Chapter, Chilchinbeto, Arizona.
- July 25: Eastern Navajo Fair “Youth Day” Outreach, Crownpoint, New Mexico.
- July 27: Eastern Navajo Fair Parade/Fair, Crownpoint, New Mexico.
- August 22: 1st DOE Shiprock Environmental Assessment-Evaporative Pond, Shiprock, New Mexico.
- Sept. 5: Navajo Nation Fair “Kids Day” Outreach, Window Rock, Arizona.
- Sept. 6-7: Navajo Nation Fair Parade/Fair, Window Rock, Arizona.
- Sept 11: Informal Meeting with Shiprock Stakeholders and AML staff regarding the Shiprock Environmental Assessment.
- Sept 19: DURAC Meeting in Aneth, Utah.
- Sept. 21: 2nd DOE Shiprock Environmental Assessment-Evaporative Pond, Shiprock, New Mexico.
- Sept. 27: Cameron Community Days, Cameron, Arizona.
- Oct. 3-5: Northern Navajo Nation Fair, Shiprock, New Mexico.
- Oct.10-12: National AISES Conference, Milwaukee, Wisconsin.
- Oct. 10-13: Western Navajo Fair, Tuba City, Arizona.
- Nov. 16: Monument Valley Marathon, Monument Valley, Utah.
- Nov. 21: DURAC Meeting in Kayenta, Arizona.
- Nov. 26-28: Dine’ College STEM Fest, Tsaile, Arizona.
- Dec. 7: Shiprock Christmas Parade of Lights, Shiprock, New Mexico.
- Dec. 21: Cove Chapter Christmas Dinner & Parade, Cove, New Mexico.

2020

- Jan. 9: District 12 Grazing Committee Meeting, Shiprock Chapter House, Shiprock, New Mexico.
- Jan. 20: Community Education Forum: Impacts of Uranium Mining, Sports Complex, Window Rock, Arizona.
- Jan. 23: DURAC Meeting in Shiprock, New Mexico at the Shiprock Chapter House.
- Jan. 23: STEM-sation Outreach Event at Tohatchi High School in Tohatchi, New Mexico.
- Feb. 20: STEM-sation Outreach Event at Sanders High School in Sanders, Arizona.

*Navajo Nation and Hopi Tribe Outreach Activities beginning March 2019 were cancelled due to COVID-19 pandemic



3.4: OUTREACH MATERIALS

LM provides informational materials at Navajo Nation outreach events, including:

- Site fact sheets.
 - Monument Valley, Utah, Processing Site.
 - Mexican Hat, Utah, Disposal Site.
 - Shiprock, New Mexico, Disposal Site.
 - Tuba City, Arizona, Disposal Site.
 - Tuba City Uranium Ore Deposit Formation in the Tuba City, Arizona, Area Fact Sheet.
 - Window Rock, Arizona, Navajo Nation Community Outreach Network Office Fact Sheet (draft).
- Community information sheets.
 - Monument Valley, Arizona, Processing Site.
 - Mexican Hat, Utah, Disposal Site.
 - Shiprock, New Mexico, Disposal Site.
 - Tuba City, Arizona, Disposal Site.
- Energy Ant coloring book.
- Gamma Goat coloring book.
- LM overview brochure.
- LM Sites on Navajo Nation Land brochure.
- LM *Strategic Plan* brochure.
- Uranium and Radiation on the Navajo Nation Agency Resource List.
- LM Video detailing the work conducted on the Navajo Nation.
- Window Rock, Arizona, Outreach Office map.
- Working with the Navajo Nation fact sheet.
- Children’s Brochure about LM.
- Community Outreach Network.
 - Uranium and Radiation on the Navajo Nation Resource List.
 - Information Sheet.



SECTION 4: COMMUNITY CONCERNS

Through a series of informal interviews and discussions, community meetings, and open houses, tribal community members and officials (tribal programs staff and Navajo Chapter representatives) from the Navajo Nation expressed the following concerns related to the Monument Valley processing site:

- Site-related contamination of groundwater is affecting the tribal community’s drinking water.
- Site is contributing to cancer within the tribal communities.
- Radioactive dust is blowing off the site and into the communities.
- Housing near the site is contaminated.
- Community information meetings are a challenge to attend.

4.1: RESPONSE TO COMMUNITY CONCERNS

LM has conducted the following most-recent community involvement activities directly responding to community concerns:

- **April 15, 2018, Monument Valley Community Information Meeting:** Prior to quarterly ground water sampling events, a member of the LM Support (LMS) Public Affairs team contacts nearby residents and informs them of upcoming work. During ground water sampling, the technical team is routinely visited by residents and the site lead often visits various residences to inform them of field work.
- In both 2019 and 2020 prior to groundwater sampling activities, members of the LMSP technical and public affairs team provided door-to-door notifications to inform residents of site updates and activities. Information sheets with contact information were provided to every household. It is common practice for one of the members of the technical team to call a local resident near the site to exchange information regarding the site.

At all community involvement events, information is shared with the community about the status of the groundwater contamination plume and status of site monitoring activities. The LM site manager and LMS staff provide information on the location and characteristics of the contamination plume, with the assurance that contamination is not affecting drinking water because water is supplied from an uncontaminated source

4.2: SUMMARY OF COMMUNICATION NEEDS

Community members have said their communication needs should be addressed through meeting notices provided at the Oljato and Dennehotso Chapter House and local business community information boards, published in local newspapers, and aired on KTNN (Navajo) AM radio station. Media placement will be determined by size and scope of work and is typically not needed on routine ground sampling events. Tribal community members also expressed their desire to have public events held on non-payday weekends when community members are more likely to attend meetings, and to present and receive community feedback at Chapter planning meetings and Chapter meetings.



SECTION 5: COMMUNITY INVOLVEMENT STRATEGY

The goals of this strategy are to facilitate communication between community members and LM, and to provide opportunities for meaningful and active involvement by the Navajo people in Monument Valley processing site activities. The strategy is based on feedback from community involvement interviews, previous community meetings, and comments received from local officials.

5.1: COMMUNITY INVOLVEMENT ACTIVITIES

1. Information on current and proposed site activities

Activity 1A: Present information at Dennehotso and Oljato Chapter meetings

Objective:	Present information regarding site activities (i.e., water monitoring and sampling, results and data, future site activities).
Method:	LM representatives will present updates at Dennehotso Chapter meetings as requested. Tools may include presentations, site information fact sheets, and the LM website address for detailed site information.
Timing:	As needed or on request by residents

Activity 1B: Conduct open houses and site tours.

Objective:	LM site manager and staff will provide in-depth information to community members about site activities and the scientific and engineering rationale for activities.
Method:	Visit Community residences as requested by Cane Valley Residents.
Timing:	Site tour events will be conducted to support site activities or upon request by residents

2. Timely outreach and information on community meetings, site open houses, and site tours.

Activity 2A: Post flyers in public locations about upcoming community meetings, site open houses, and site tours.

Objective:	Post information about community meetings, site open houses, and site tours.
Method:	Post meeting information at the Dennehotso Chapter House public information board; U.S. Post Office; local businesses; and tribal, state, and federal offices. Conduct door-to-door visits in Cane Valley.
Timing:	As needed

Activity 2B: Advertise on local radio stations, tribal newspapers, and newsletters.

Objective:	Provide public service announcements on community meetings, quarterly updates, site open houses, and site tours.
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Method:	Contact KTNN, place information ads in the <i>Navajo Times</i> with information announcing upcoming community meetings, quarterly updates, site open houses, and site tours. Establish a site point of contact for follow-up purposes.
Timing:	15 days and five days prior to site meetings, open houses, and site tours.
<i>Activity 2C: Mail informational post cards.</i>	
Objective:	Mail informational postcards detailing upcoming community meetings, quarterly updates, site open houses, and tours.
Method:	Collect physical mail and email addresses from community members during community meetings, quarterly updates, site open houses, and site tours for distributing information announcing upcoming community meetings, quarterly updates, site open houses, and site tours.
Timing:	15 days prior to planned community meetings, quarterly updates, site open houses, and site tours.

3. Make times and dates for site open houses and site tours more accessible for members of the community.

Activity 3A: Work with community leadership and community members to determine optimal date, time, and location for community meetings, site open houses, and site tours.

Objective:	Determine the best time frame to conduct community meetings, site open houses, and site tours.
Method:	Poll community leaders and community members during Chapter meetings (engage with Chapter House coordinator to schedule) and outreach events to determine the best time frame for conducting community meetings, site open houses, and site tours. Coordinate community meetings with scheduled events and gatherings in the community.
Timing:	Conducted during Chapter House updates, informal polling within the community.

4. Address community concerns that contaminated groundwater plume is impacting community water, including a location identified as the “frog ponds,” and Well #0625.

Activity 4A: Provide information on contaminated groundwater plume location and movement history.

Objective:	Inform community about the site’s groundwater contamination, plume movement history, and the site’s hydrology and geology.
Method:	LM site manager and technical staff presentations to Cane Valley residents, quarterly updates, site open houses, and site tours. Give presentations illustrating the location and depth of the contamination, plume movement history, site hydrology, and geology.
Timing:	Semiannually or upon request by residents



5. Address community concerns that contaminated groundwater plume is impacting livestock drinking water.

Activity 5A: Provide information on contaminated groundwater plume location and movement history.

Objective:	Inform community about the site’s groundwater contamination, plume movement history, and the site’s hydrology and geology. Discuss location of the plume in relation to the hand-dug well and identify uncontaminated groundwater locations.
Method:	LM site manager and technical staff presentations to residents, quarterly updates, site open houses, and site tours. Give presentations illustrating the location and depth of the contamination, plume movement history, site hydrology, and geology.
Timing:	Before or during sampling events or upon request by residents

6. Address community concerns that radioactive dust is contributing to cancer in the community.

Activity 6A: Provide joint information and presentations from the Agency for Toxic Substances and Disease Registry, Indian Health Service, and LM on cancer, indeterminate causes for cancer, and site cleanup and monitoring activities reducing community’s exposure to radioactive dust.

Objective:	Inform community of indeterminate causes of cancer. Provide information on site activities that reduce the community’s exposure to radioactive waste. Foster informational community dialogue involving multiple federal and tribal agencies and programs on community concerns, and identify health resources available to community members. The information can explain the lack of exposure pathways and the low-level nature of the tailings wastes if they are encountered. The key is increasing awareness and understanding of actual risks and how to personally mitigate or avoid them, such as avoiding restricted water or livestock water for drinking, staying out of mines, and reporting suspicious areas to Navajo EPA or other agencies.
Method:	This discussion may be included in community meetings, Five-Year Plan agency meetings, quarterly updates, site open houses, and site tours, or it may be conducted at a community meeting designed to specifically address this community concern.
Timing:	Ongoing

7. Address community recommendation that all outreach materials need to have a cultural connection to the community for better interpretation and understanding.

Activity 7A: Provide the site leads/site managers expertise on culturally appropriate outreach materials regarding the four former uranium mill processing sites..

Objective:	Inform community about the site’s groundwater contamination, plume movement history, and the site’s hydrology and geology in all outreach materials, while being culturally sensitive to community interpretation.
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Method:	This discussion may be exchanged between all site leads and managers for the four former uranium processing sites, community members, tribal officials, and the Navajo Nation Community Outreach Network Office located in Window Rock, Arizona.
Timing:	Ongoing

5.2: COMMUNITY INVOLVEMENT ACTIVITIES TIME FRAME SUMMARY

Activity	Time Frame
Chapter House update meetings	Held semiannually; upon the request of residents
Site open houses and site tours	During sampling events or upon the request of residents
Announcements of meetings, open houses, and site tours	Distributed/published 15 days and five days prior to activity date(s)
Meetings to address community concerns related to cancer	To be determined

5.3: COMMUNITY NOTIFICATION

As part of DOE’s ongoing efforts to reach out to the Monument Valley community, it is vital that federal, tribal, and contractor personnels’ public interaction, such as door-to-door visits to community homes or businesses, is conducted in a safe manner. The following guidelines ensure safety remains the number one priority when conducting outreach to the Cane Valley community:

- Notify site security personnel of upcoming community notifications and site visits
- Produce and post outreach flyers at public places, including the chapter house and area businesses in nearby Mexican Hat
- Produce door hangers, which communicate a clear description of the work that will be performed, and distribute to area residents in person or leave on the door
- Conduct door-to-door outreach with no fewer than two staff members, including one member who is fluent in Navajo, if possible. If unable to conduct door-to-door visits, LMS will contact residents by phone and/or email.
- Exercise situational awareness before approaching homes; do not approach or enter if it doesn’t seem safe. During door-to-door notifications, keep a record of which homes are contacted and when, the result of that contact effort, and resident feedback. This record is to be provided to the public affairs manager and the site lead for distribution.



APPENDIX A: LM REGIONAL CONTACTS

Environment Team 1 Leader	Paul Kerl U.S. Department of Energy Office of Legacy Management 2597 Legacy Way Grand Junction, CO 81503 (970) 248-6020
Monument Valley Site Manager	Angelita Denny U.S. Department of Energy Office of Legacy Management 2597 Legacy Way Grand Junction, CO 81503 (970) 248-6621
Public Participation Specialist	Shawn Montgomery U.S. Department of Energy Office of Legacy Management 2597 Legacy Way Grand Junction, CO 81503 (970) 248-7666
Public Affairs Lead <i>Legacy Management Support Contractor</i>	Jennifer Grossheim Harris 2597 Legacy Way Grand Junction, CO 81503 (970) 248-6281
Public Affairs Specialist <i>Legacy Management Support Contractor</i>	Alex Chambers 47552-D State Highway 264 Window Rock, Arizona 86515 (928) 810-2102
Community Outreach Network Coordinator <i>Legacy Management Support Contractor</i>	-Vacant- 47552-D State Highway 264 Window Rock, Arizona 86515 (928) 810-2102
Site Lead <i>Legacy Management Support Contractor</i>	Cecylia Wentz 2597 Legacy Way Grand Junction, CO 81503 (970) 248-6235



APPENDIX B: NAVAJO NATION GOVERNMENT

Navajo Nation President	Jonathan Nez, Navajo Nation Office of the President P.O. Box 7440 Window Rock, AZ 86515 (928) 871-7000
Navajo Nation Vice President	Myron Lizer, Navajo Nation Office of the President P.O. Box 7440 Window Rock, AZ 86515 (928) 871-7000
Navajo Council Delegate	Herman Daniels, Council Delegate Navajo Nation Council P.O. Box 3390 Window Rock, AZ 86515 (928) 871-7160
Oljato Chapter President/Vice President	Willis Begay/ Tommy Rock P.O. Box 360455 Monument Valley, UT 84536 (435) 727-5850
Dennehotso Chapter President/Vice President	Larry Tuni/Tully Begay PO Box 2301 Dennehotso, AZ 83535-2301 (928) 658-3300/3301
Navajo AML Reclamation/UMTRA Program Department	Karen L. Bedonie, Department Manager III P.O. Box 1875 Window Rock, AZ 86515 (928) 871-6982
Navajo AML Reclamation/UMTRA Program Department	Shine Salt, Public Information Officer P.O. Box 1875 (928) 871-7594 office (602) 680-9763 cell
Navajo Nation EPA	Valinda Shirley, Executive Director P.O. Box 339 Window Rock, AZ 86515 (928) 871-7692
Diné Uranium Remediation Advisory Commission (DURAC)	Nona Baheshone P.O. Box 7440 Window Rock, AZ 86515 (928) 871-7186



APPENDIX C: ELECTED COUNTY, STATE, AND FEDERAL OFFICIALS

Governor of Arizona	Doug Ducey (Republican), Office of the Governor 1700 West Washington Street Phoenix, AZ 85007 (602) 542-4331
Senator	Kelly, Mark Dirksen Senate Office Building Washington DC 20510 (202) 224-2235 Sinema, Kyrsten 317 Hart Senate Office Building Washington DC 20510 (202) 224-4521
Congressional Representative	Tom O'Halleran, District 1 324 Cannon House Office Building Washington, DC 20515 (202) 225-3361
County Supervisor	Lena Fowler, District 5 219 E. Cherry Avenue Flagstaff, AZ 86001 (928) 679-7751



APPENDIX D: ENVIRONMENTAL, ACTIVE CITIZENS GROUPS, TRIBAL GOVERNMENT COMMISSION

Southwest Research and Information Center	105 Stanford SE P.O. Box 4524 Albuquerque, NM 87106 (505) 262-1862
Forgotten People Community Development Corporation, Inc.	P.O. Box 1289 Tuba City, AZ 86045 (928) 640-6110
Diné C.A.R.E. – Citizens Against Ruining our Environment	10A Town Plaza, Suite 138 Durango, CO 81301 (970) 759-1908
Sacred Water Speaks (To’ Nizhoni Ani)	P.O. Box 657 Kykotsmovi, AZ 86039 (505) 228-7085
Black Mesa Water Coalition	408 E. Route 66 Flagstaff, AZ 86002 (928) 213-5909
Haul No!	stopcanyonmine@gmail.com



APPENDIX E: MEDIA CONTACTS

Navajo Times	P.O. Box 370 Window Rock, AZ 86515 (928) 871-1130
Associated Press	Felicia Fonsca, Reporter Twitter: @FonsecaAP
AM Radio–KTNN	Public Service Announcements (928) 871-3553 Webmaster@ktnnonline.com



APPENDIX F: MEETING LOCATIONS

Oljato Chapter House
P.O. Box 360455
Monument Valley, UT 84536
(435) 727-5850

Monument Valley High School
100 Cougar Ln,
Oljato-Monument Valley, UT 84536
(435) 678-1208

Monument Valley Visitors Center
P.O. Box 360289
Monument Valley, Utah 84536
(435) 727-5870

Dennehotso Chapter
PO Box 2301
Dennehotso, AZ 83535-2301
(928) 658-3300/3301

Halchita Community Center
Halchita, Utah 84531
LMSP Public Affairs makes arrangements with local resident