# Radioactive and Hazardous Materials Committee

December 1, 2023 New Mexico Legislature Santa Fe, New Mexico

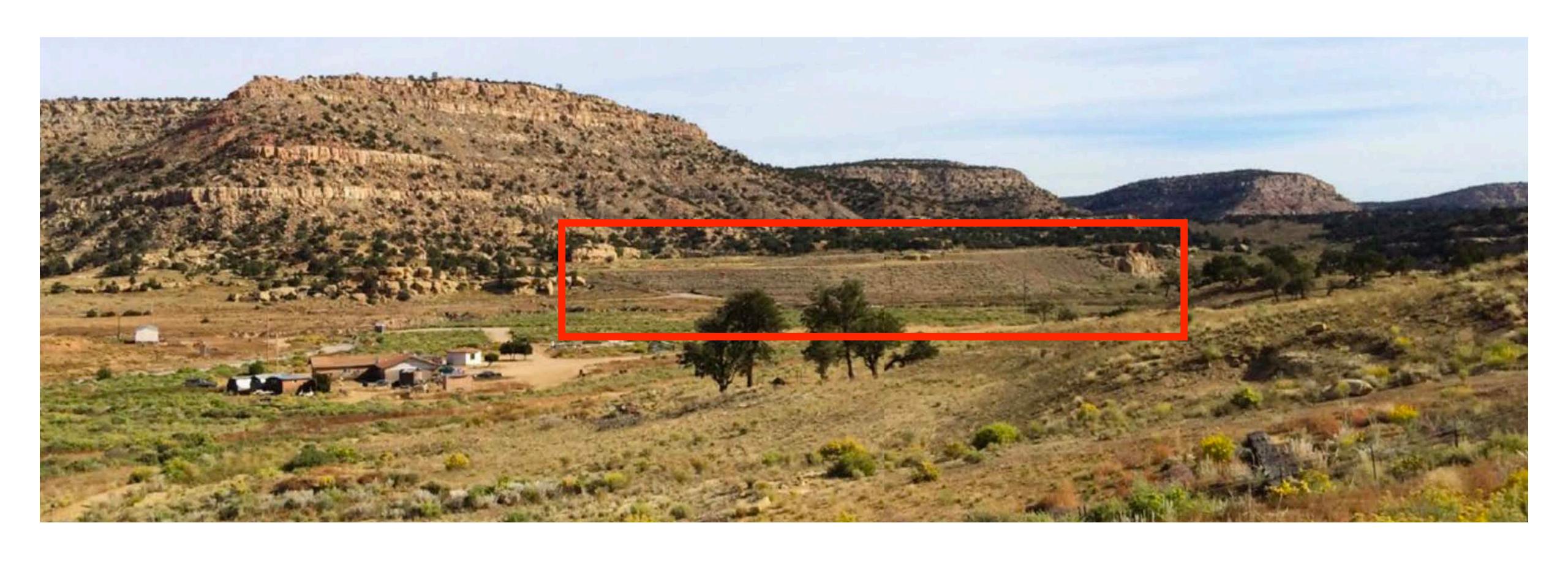
Susan Gordon, Multicultural Alliance for a Safe Environment

Teracita Keyanna, Red Water Pond Road Community Association

#### Goals of presentation

- Report on US Environmental Protection Agency proposals for Quivera Superfund cleanup at Red Water Pond Road Community on Navajo Nation
- What is an Engineering Evaluation and Cost Analysis
- Transportation Options
- Red Water Pond Road Perspective

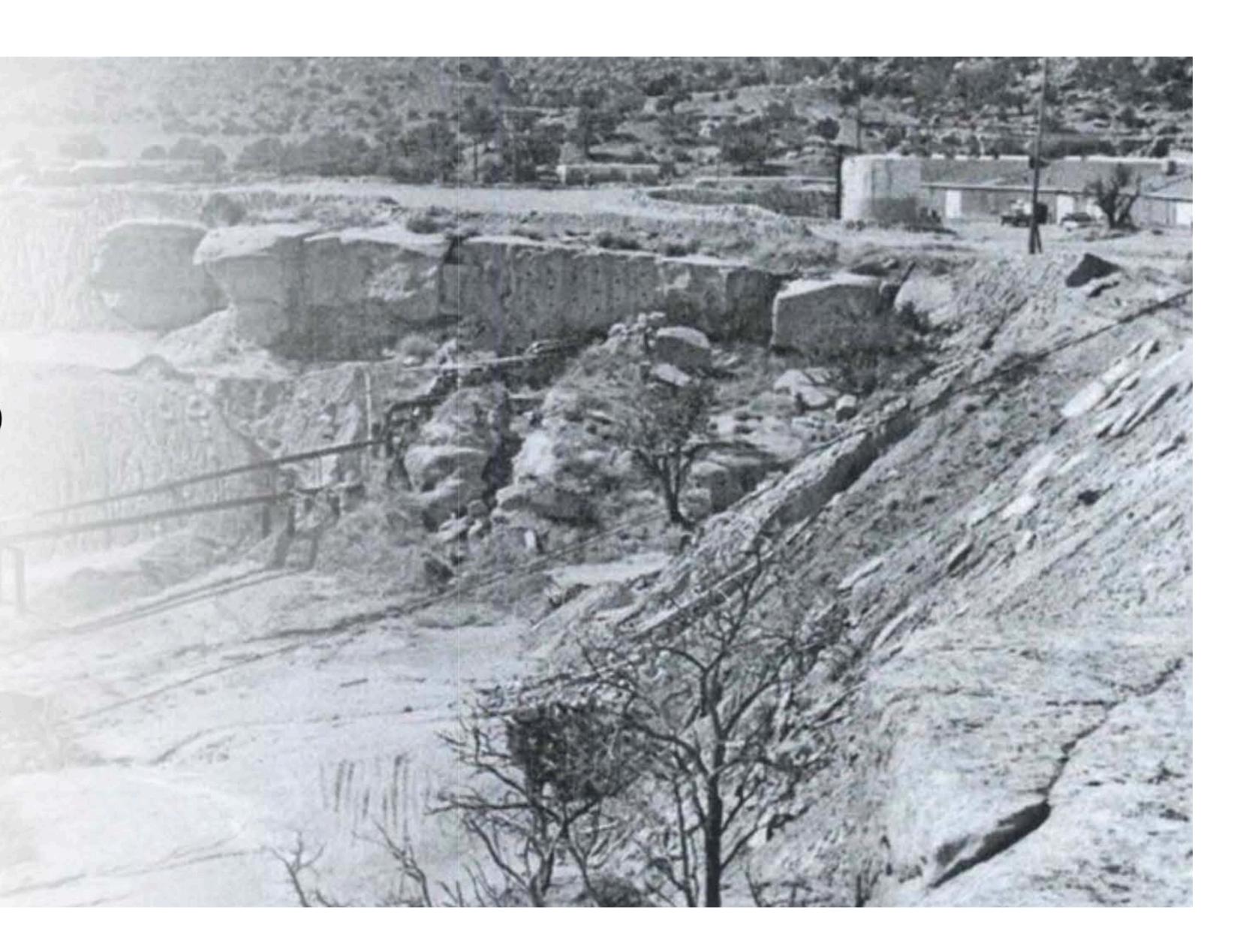
<sup>\*\*</sup>Slides were taken from the US EPA Presentation on August 6, 2023.

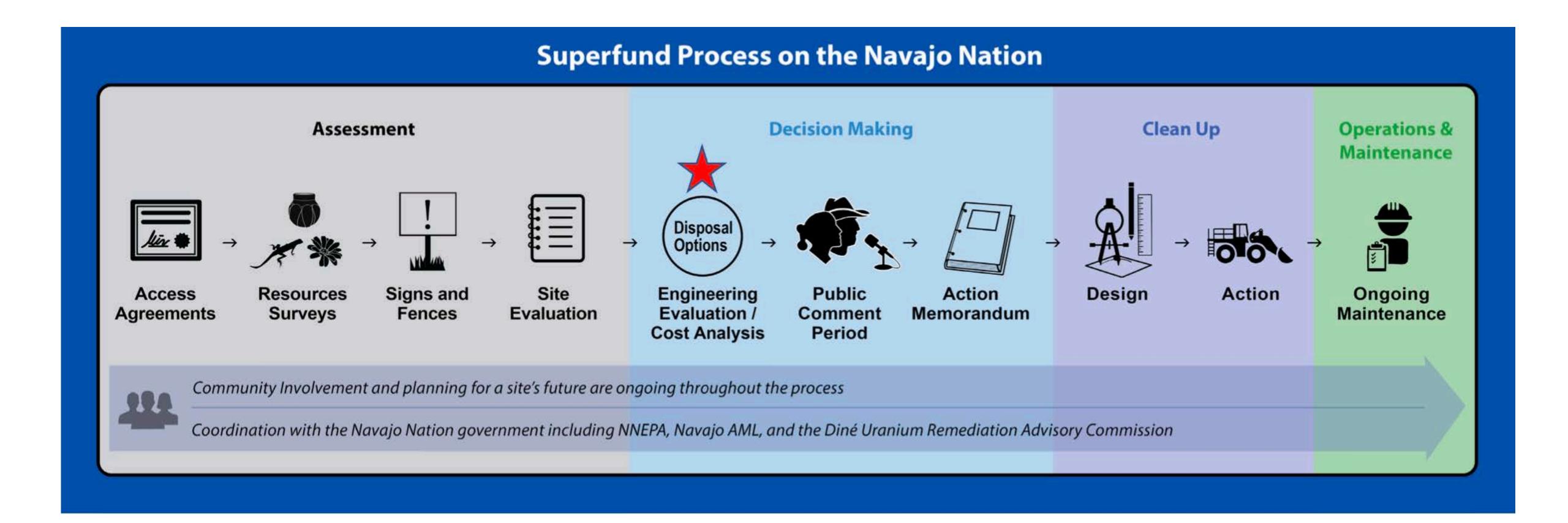


Quivera Mine Waste in Red Water Pond Road Community

### Site Background

- Quivira was mined between
   1972 1986 by Kerr-McGee
- Large underground mine 1,500 to 1,800 below ground
- Wet Mine Access to ore and mining required pumping out water ~57 billion gallons
- Produced approx. 4.6 million pounds of uranium ore (3<sup>rd</sup> largest mine on Navajo)



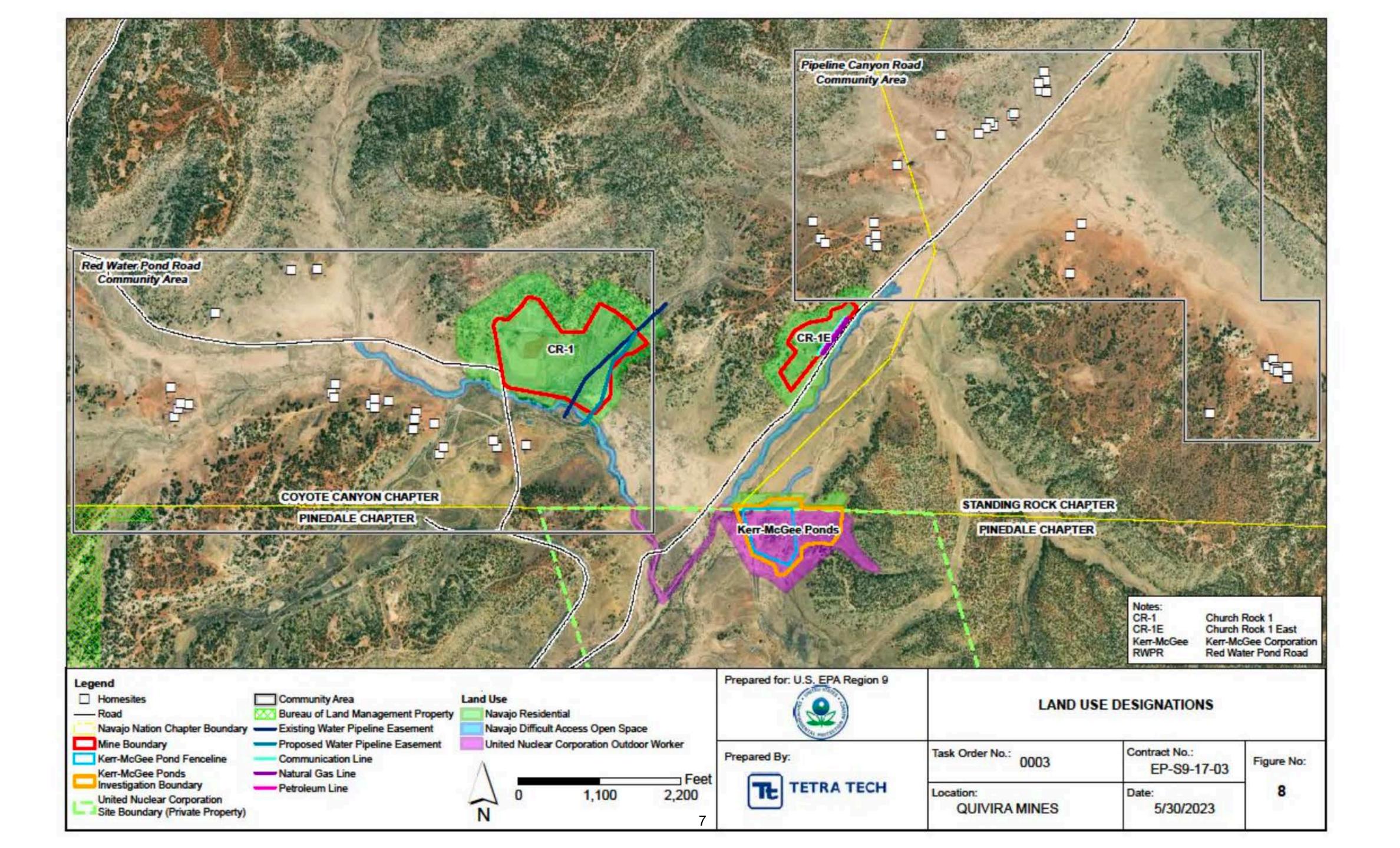


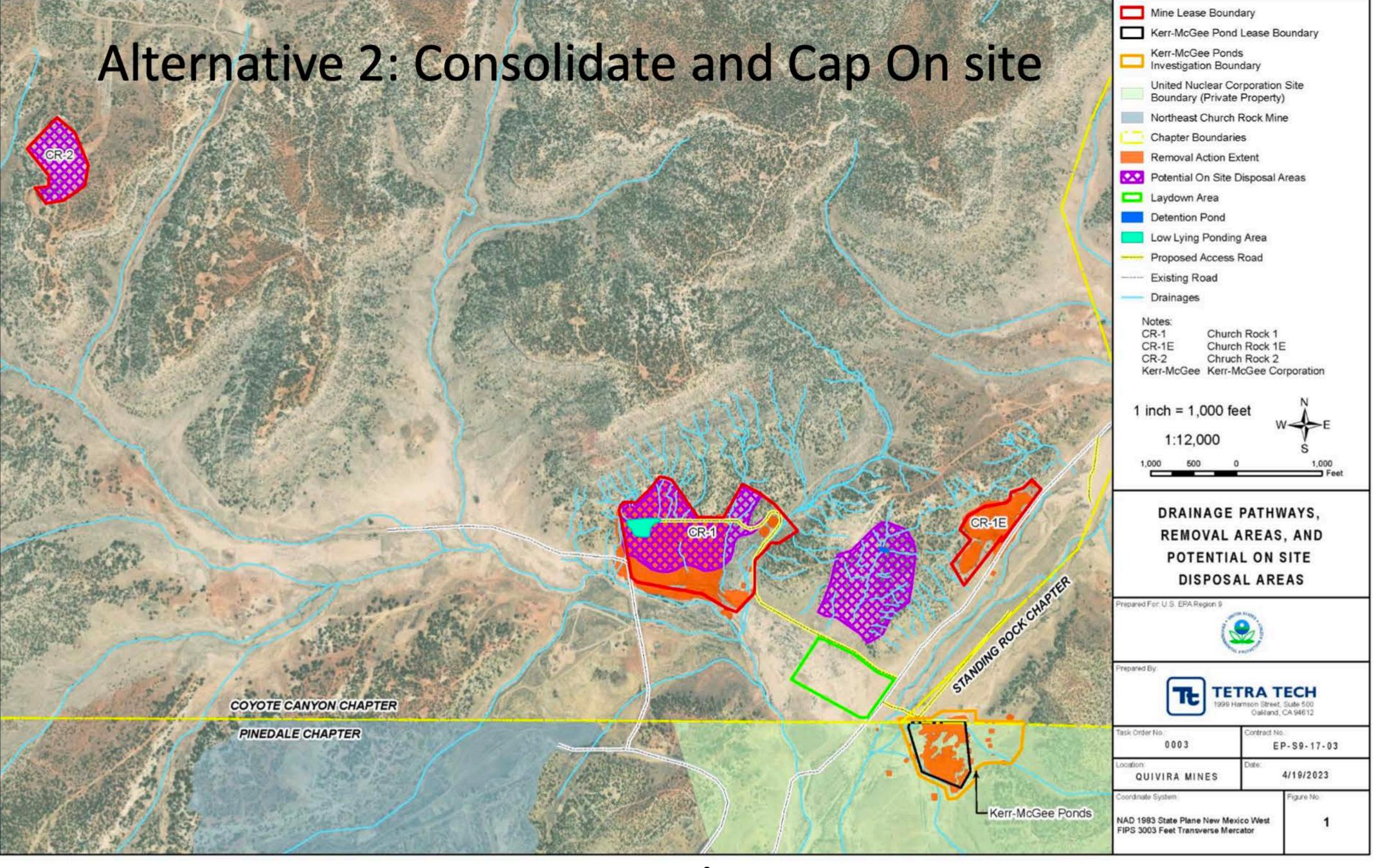
#### **Engineering Evaluation/Cost Analysis**

## Clean Up Alternatives in EE/CA

- Alt 1: No Action
- Alt 2: Consolidate and Cap All Waste On Site Under ET Cover
  - Isolated Box Canyon within Mine Lease Area
  - Recontoured at CR-1
  - Isolated CR-2 Site On Top of Mesa
- Alt 3: Dispose of All Mine Waste Off Site at Red Rock Disposal Facility
- Alt 4: Dispose of All Mine Waste Off Site at a RCRA- or LLRW Licensed Facility<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> Clean Harbors in Deer Trail, CO





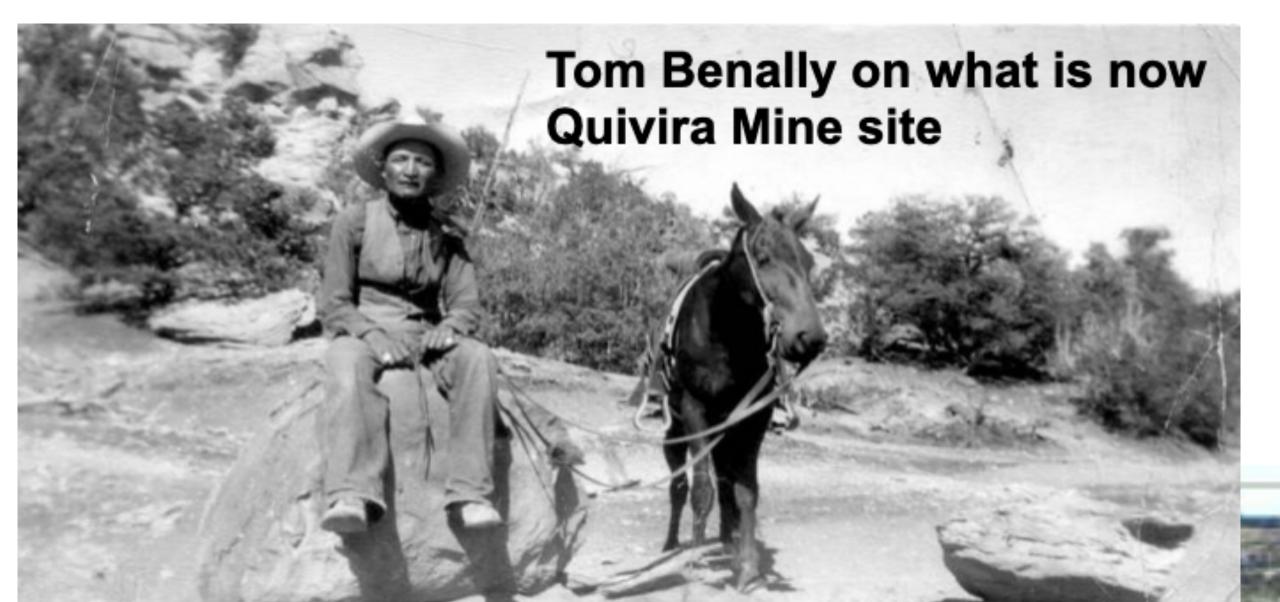
# Alternative 3: Disposal at Red Rock Landfill

- Solid waste (Subtitle D) regional landfill in Thoreau,
   New Mexico (Cibola and McKinley Counties)
- Operated and owned by Northwest New Mexico
  Regional Solid Waste Authority (7 politically appointed
  board members: Gallup (2), Grants (2), Thoreau,
  Cibola, and McKinley)
- Covers approximately 640 acres, but only half is Subtitle D
- Approximately 65 employees (mostly Navajo)
- Estimated to have capacity for up to 57 years





### Alternative 3: Possible Haul Route to Red Rock Facility



#### **Red Water Pond Road Community**

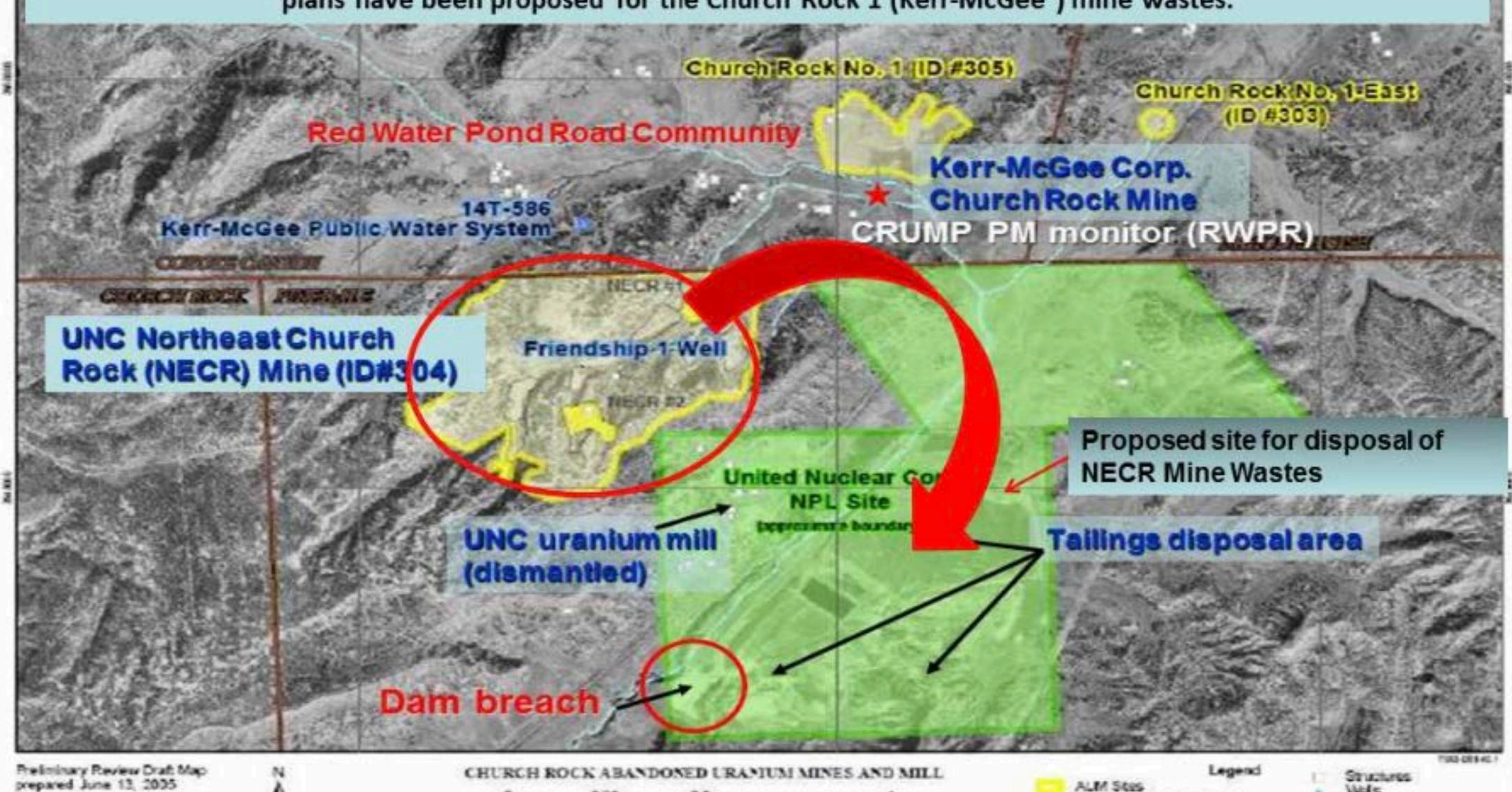
July 16, 1979 The largest radioactive accident in US.history





#### **EPA's Clean-up Plan:**

Approved in 2011 and 2013, the plan would move the NECR mine wastes to the UNC uranium mill tailings disposal facility, a process that could take 7 years. The plan awaits approval by the Nuclear Regulatory Commission. No plans have been proposed for the Church Rock 1 (Kerr-McGee ) mine wastes.



Wals

Drainages

Auto name and itsne (C.d. tom) Sorbined Pathways Scare Table





Edith, front now in middle, testified before Rep. Henry Waxman (middle, back row) and House Oversight Committee, 2007

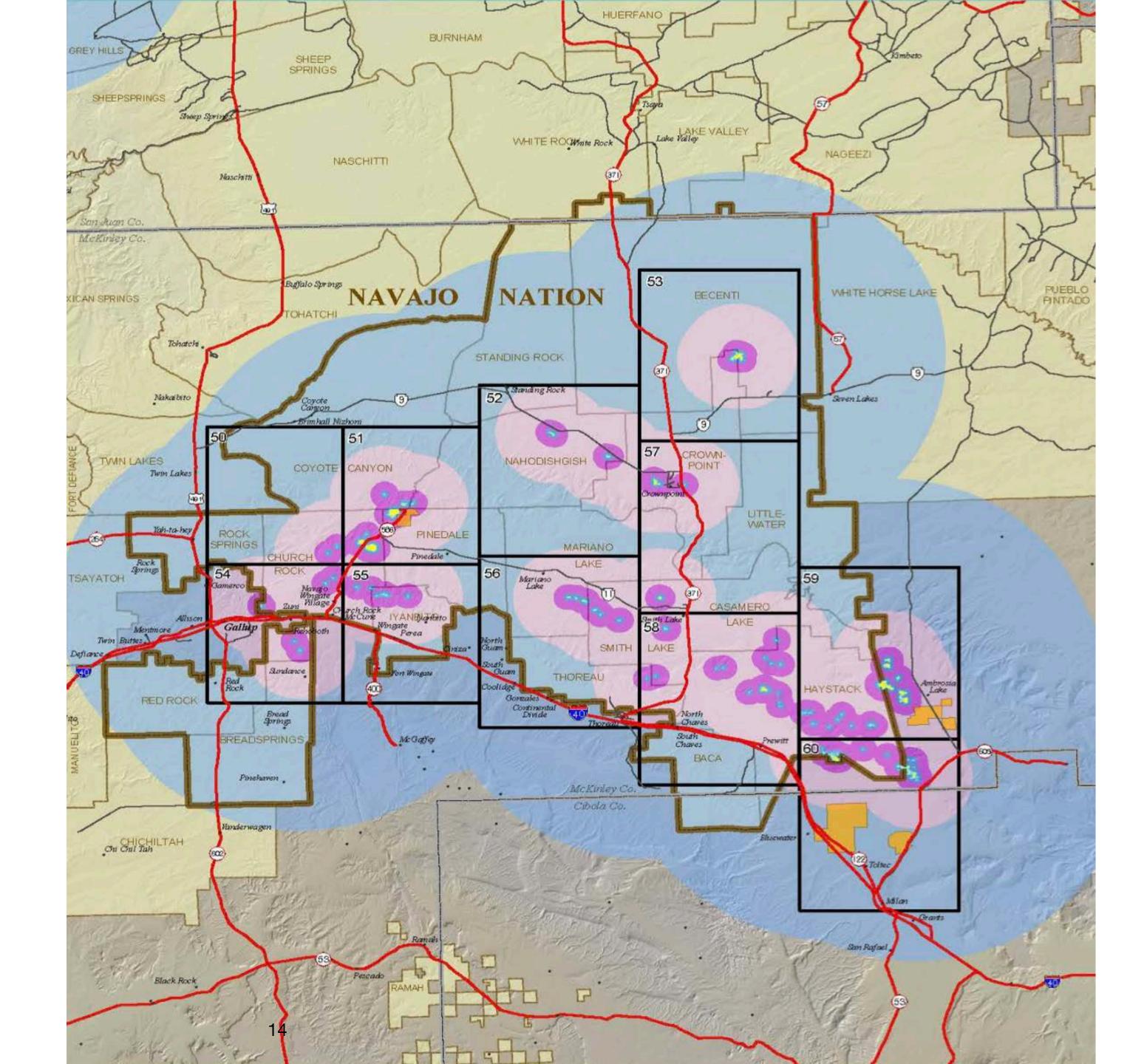






## ABANDONED URANIUM MINES

#### EASTERN AUM REGION COMBINED PATHWAYS MAP





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