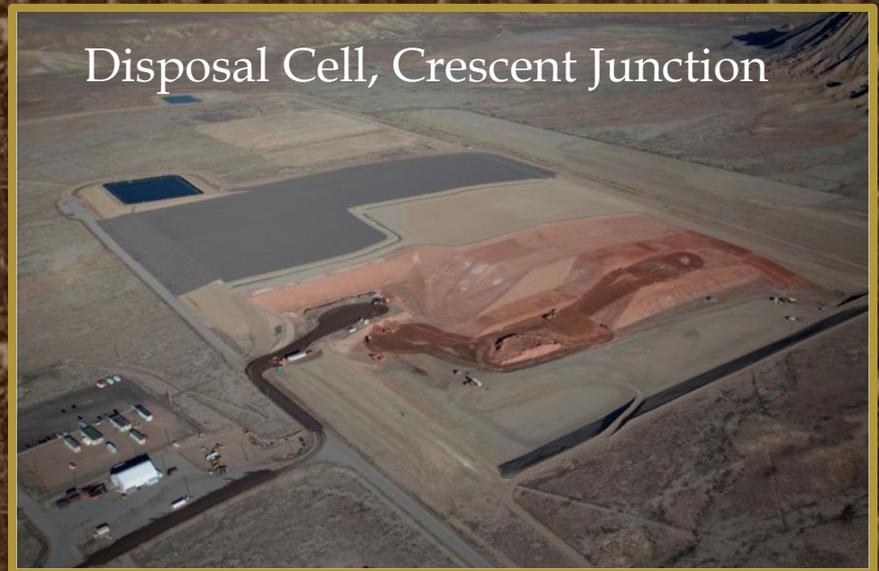
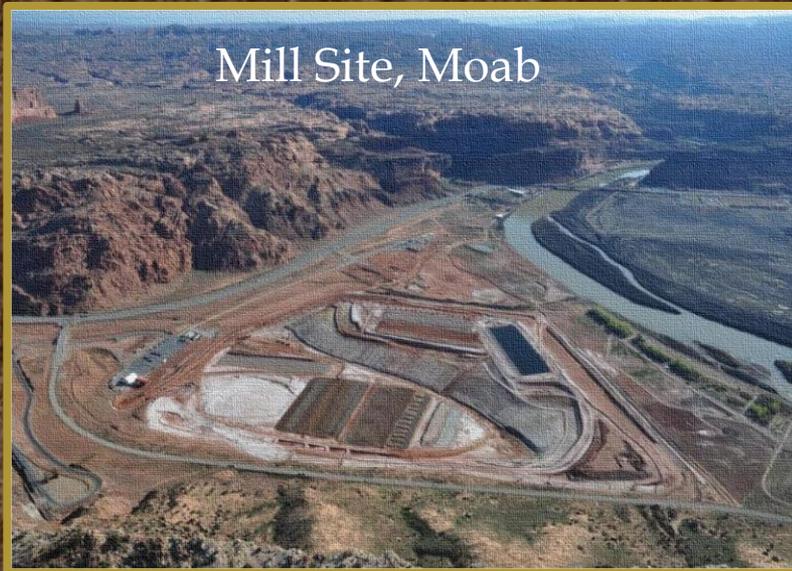


MOAB UMTRA PROJECT

MARCH, 2016



Lee Shenton, Grand County UMTRA Liaison



Presented at Biennial Symposium of
SWANA Beehive Chapter
Springdale, Utah March 3, 2016



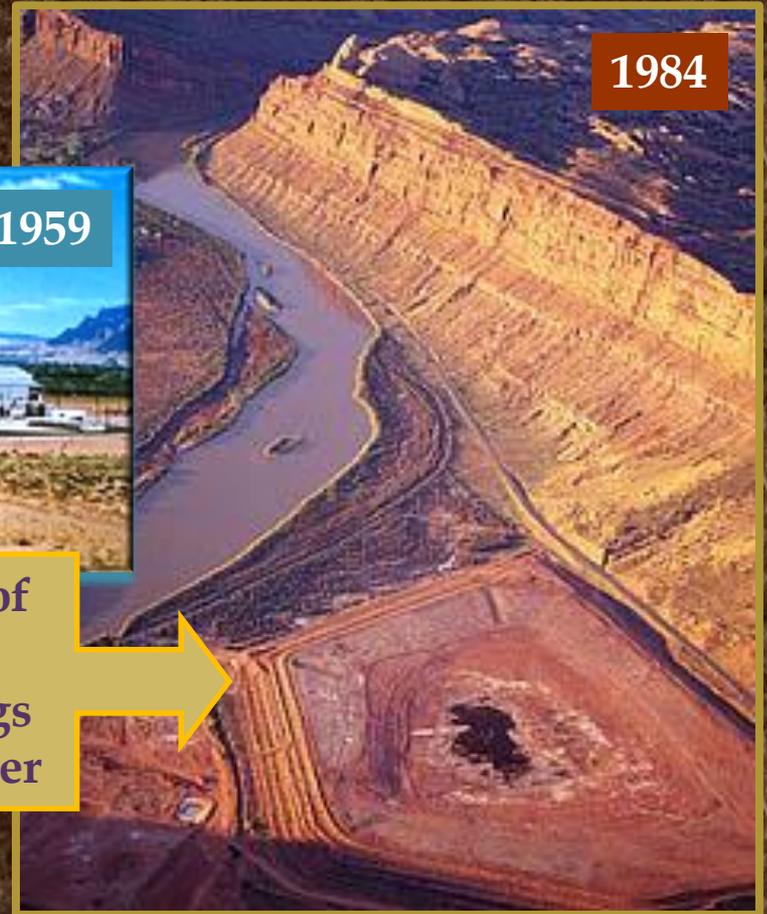
URANIUM MILL OPERATED NEAR MOAB

1956 - 1984



Charlie Steen
Founder of Uranium
Reduction Company

Courtesy of DOE



Extraction of 30 tons of
uranium oxide left
16 million tons tailings
near the Colorado River



WHY MOVE THE TAILINGS?

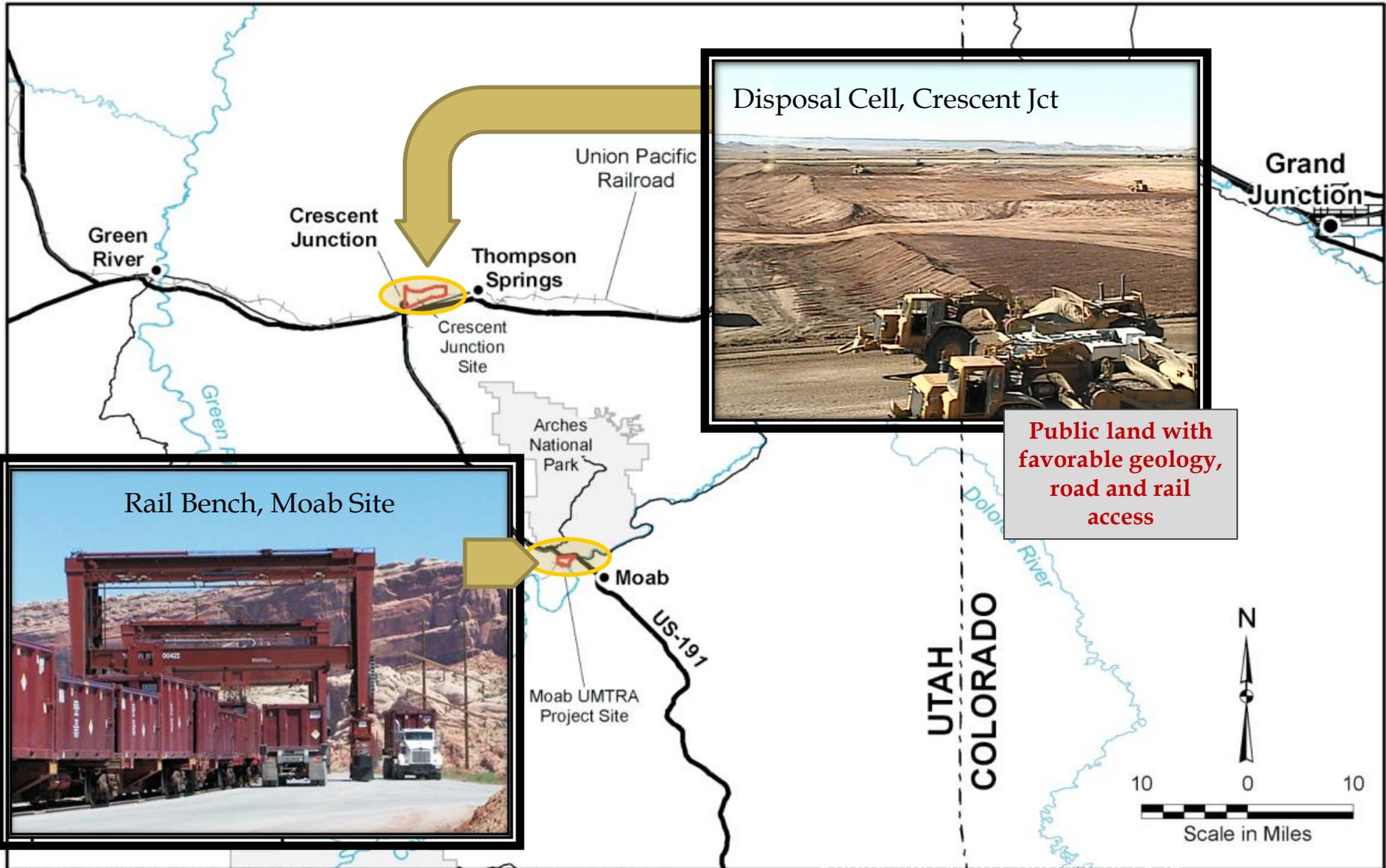


Courtesy of DOE

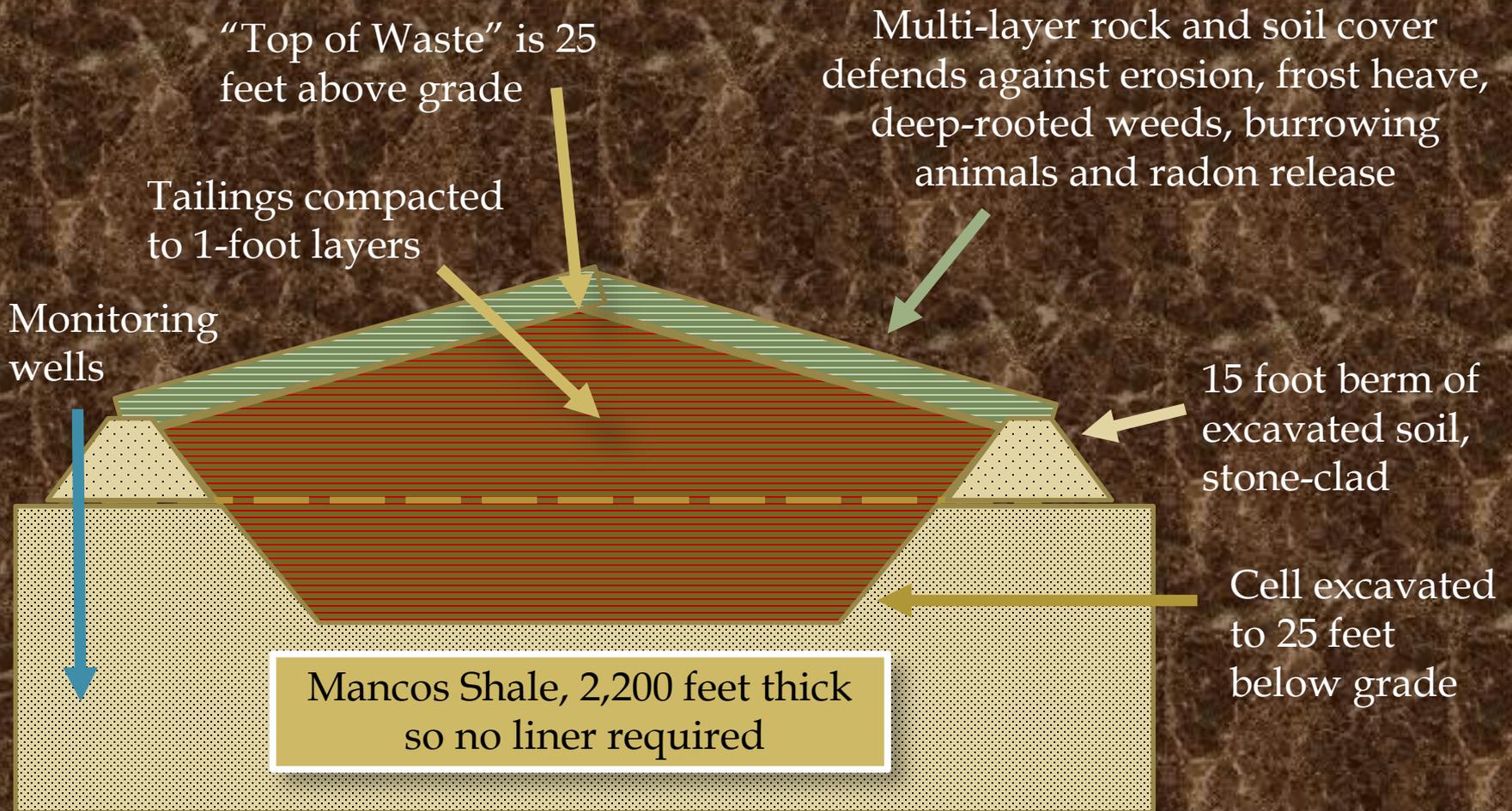
- ✓ Radiation and chemical hazards
- ✓ 25 million water users downstream
- ✓ Endangered species threatened locally
- ✓ 1.4 million visitors to Arches NP each year

Clean-up standards per 40CFR192, EPA

TAILINGS SHIPPED 30 MILES NORTH



DISPOSAL CELL DESIGN



Cross-Section, Not to Scale

TRANSPORT CHALLENGES



>110,000 tons mill debris



Full train headed for
Crescent Junction with
4,800 tons of tailings in
136 sealed containers



Rock slides along
rail spur

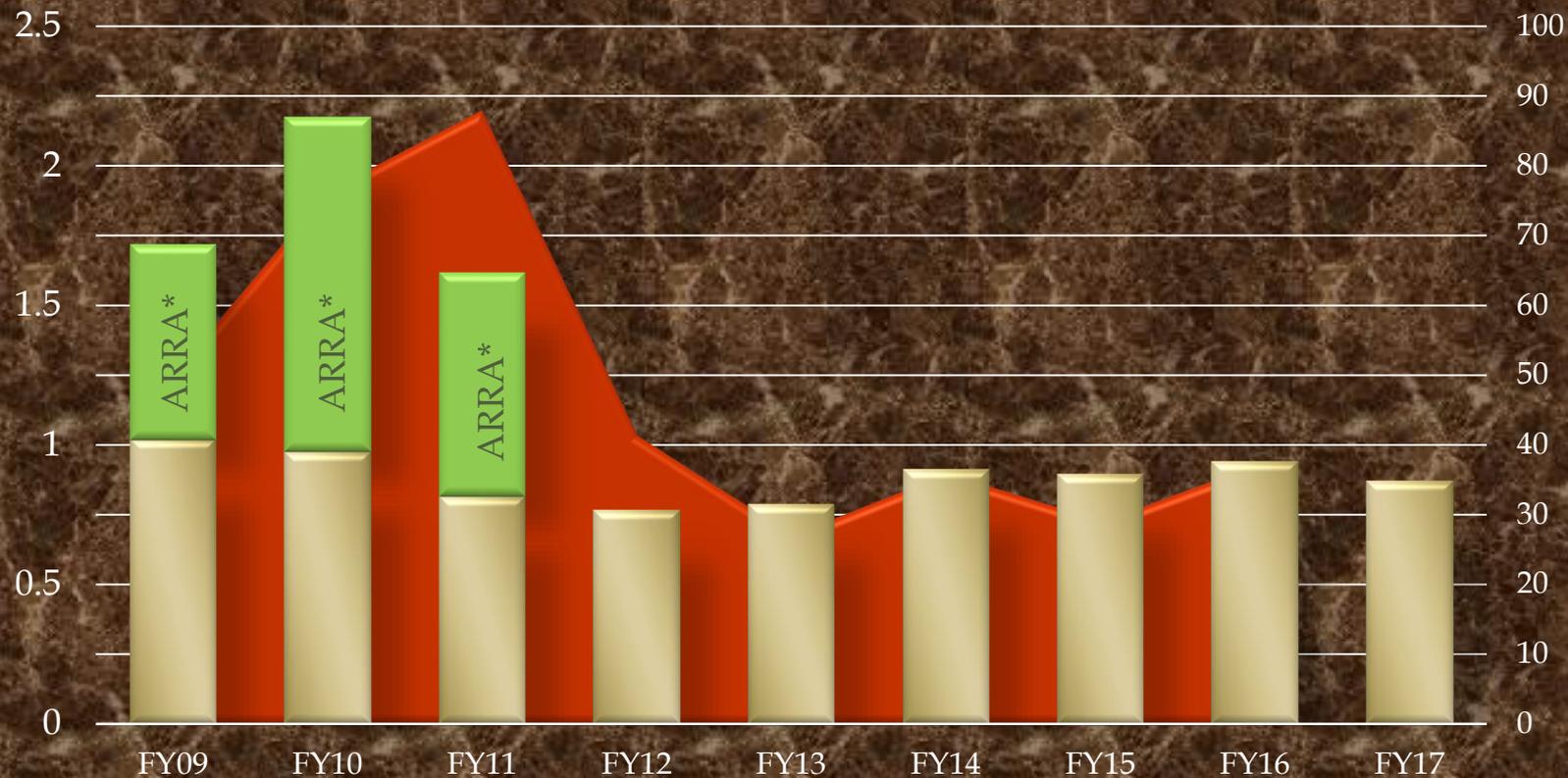


Progress

- ▣ Removed 51% of pile since April, 2009
- ▣ Intercepted 230 mil gal groundwater
 - 4,500 pounds uranium and 860,000 pounds ammonia
- ▣ Monitoring environmental impacts
 - No public or employee exposure above limits
 - River quality being protected
- ▣ Flood controls are working well
- ▣ Remediated 13 Vicinity Properties

Tailings Removed (Tons/Year, Millions)

Funding (Million \$)



* American Recovery and Reinvestment Act of 2009, aka Stimulus

Current Challenges

- ▣ Mill debris slows progress
- ▣ Disposal cell needs expansion
- ▣ More VPs need remediation
- ▣ Rock slides happen!



Photo Courtesy of Union Pacific

Future Vision for Moab Site



- ❖ Expected completion 2025
- ❖ *Site Futures Committee* takes public input, assuming DOE will transfer the Moab site
- ❖ Public wants balanced mix of community facilities, parks and commercial uses at Moab.