Section 17 Projects: Old Church Rock Mine and Downwind Structures

Presenter: Eugene Esplain

Navajo Superfund Program - Site Assessment

URL: www.frontiernet.net/~nnepansp

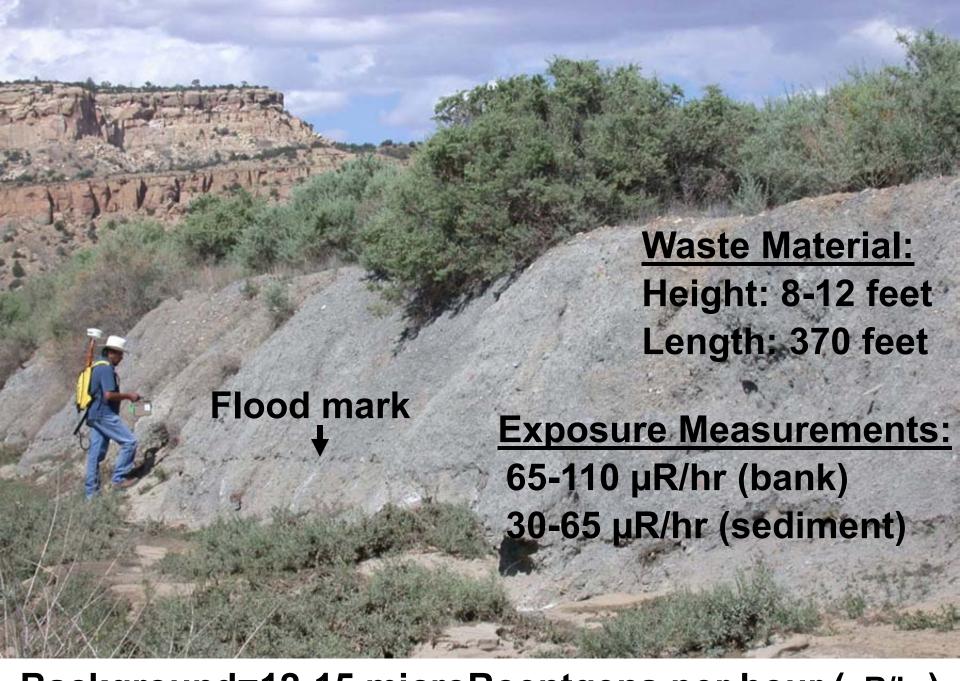
E-mail: nnepansp@frontiernet.net



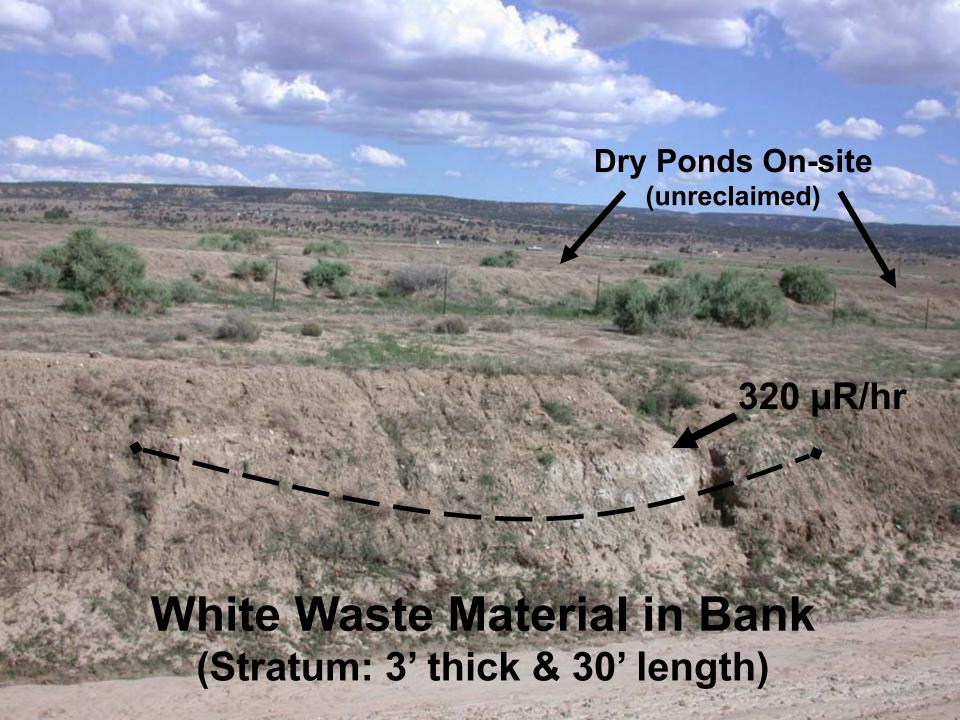
Navajo Nation
Environmental Protection Agency

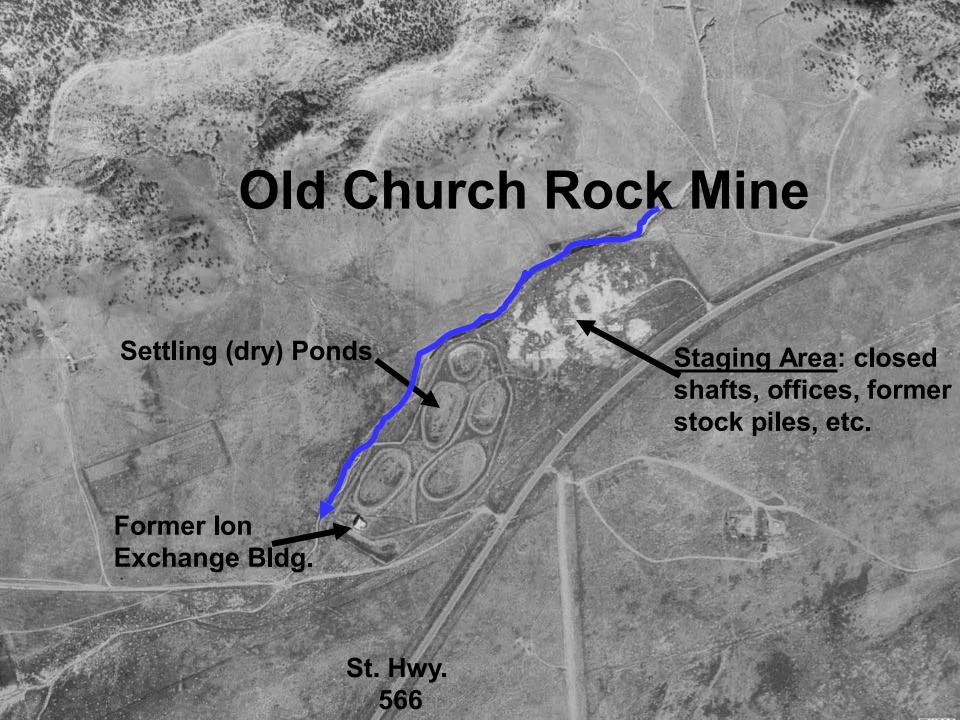


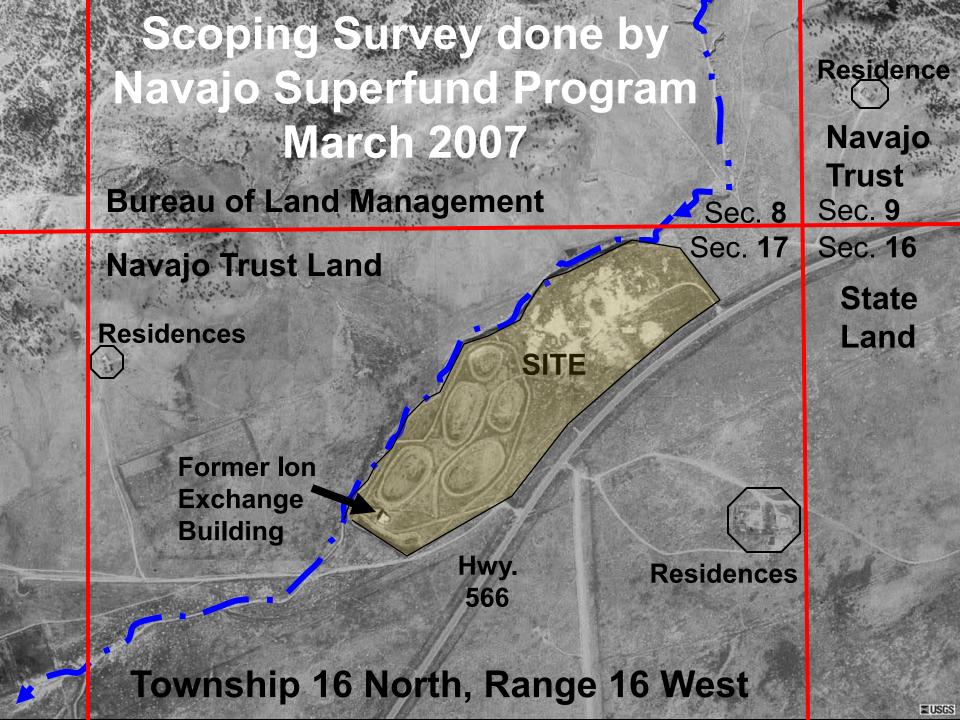


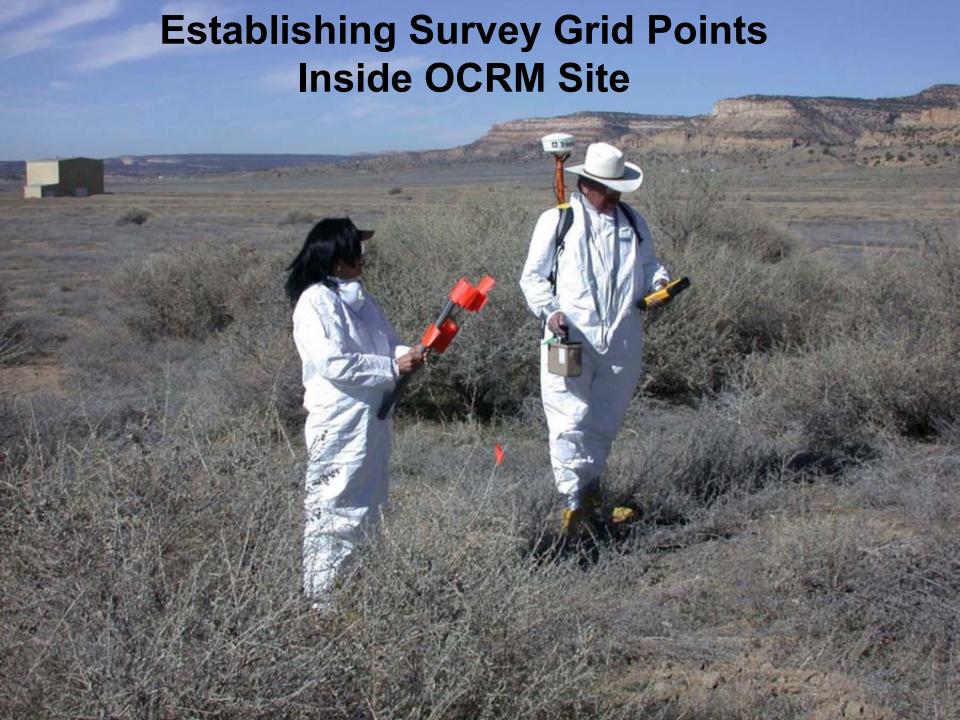


Background=12-15 microRoentgens per hour (µR/hr)



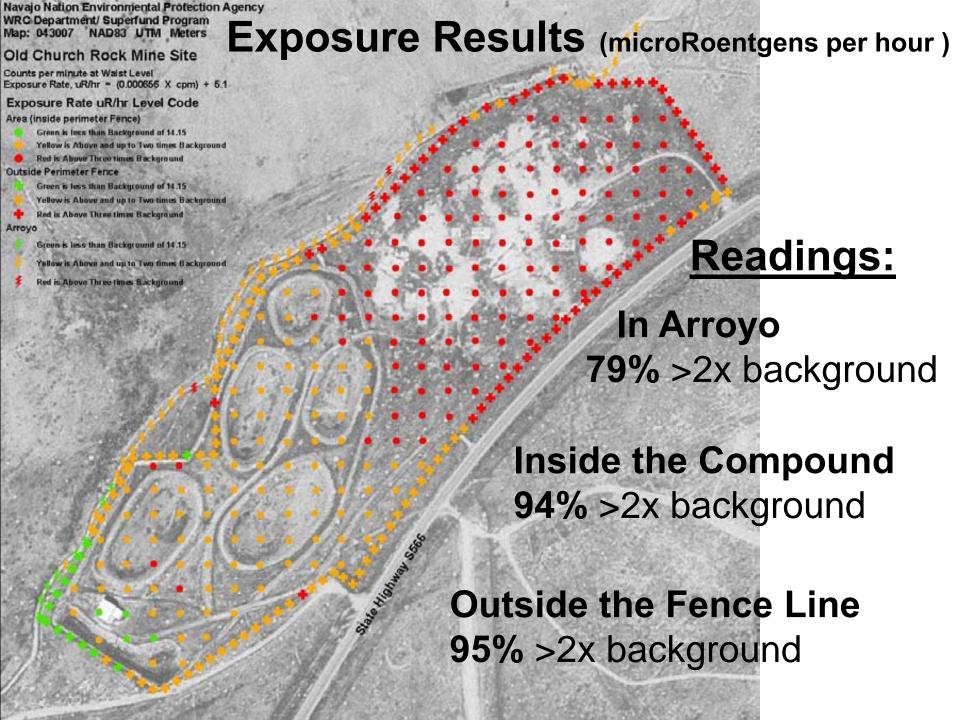


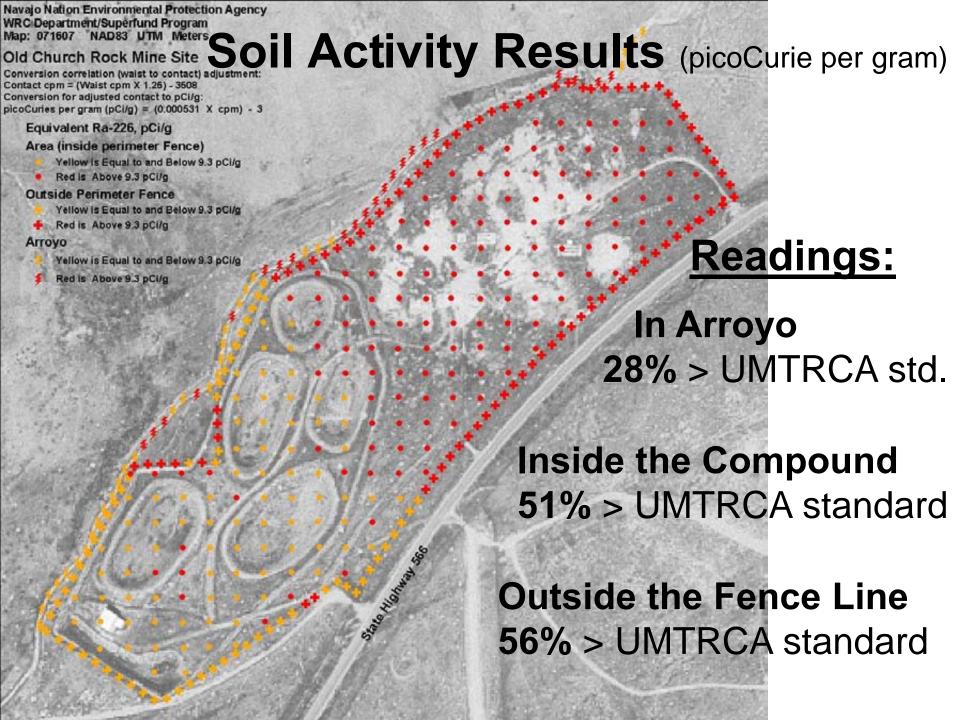




Old Church Rock Mine Site History

- Mined 1960-'62 by Phillips Petroleum Co.; Reopened 1976-'77 and 1979-'81 by United Nuclear Corporation (UNC)
- Underground mining (800 ft.- 900 ft. shafts) with on-site processing
- Ore production was 77,965 tons
- Uranium Resources Inc. (URI) now owns the subsurface mineral rights





Community Concerns

- Radioactive contaminants being transported off-site by way of surface water and air
- Heavy metals in on-site dry ponds
- Still have mined ore rocks scattered in areas
- Residences are nearby and near a regional drainage (≈ mile downstream of site)
- Adjacent land used for agricultural purposes

Phase I Site Characterization Work Plan Old Church Rock Mine McKinley County, New Mexico



Prepared for:

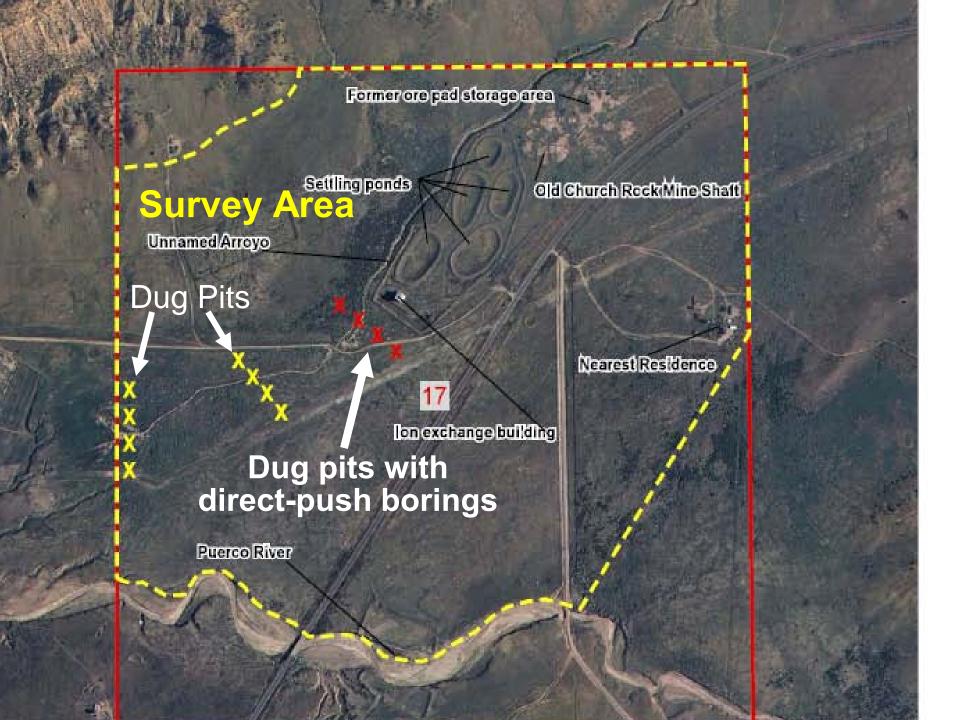
Uranium Resources Inc. 5041 Indian School Rd. NE Albuquerque, NM 87110

Prepared by:



INTERA Incorporated 6000 Uptown Boulevard, NE Suite 100 Albuquerque, New Mexico 87110

July 11, 2008



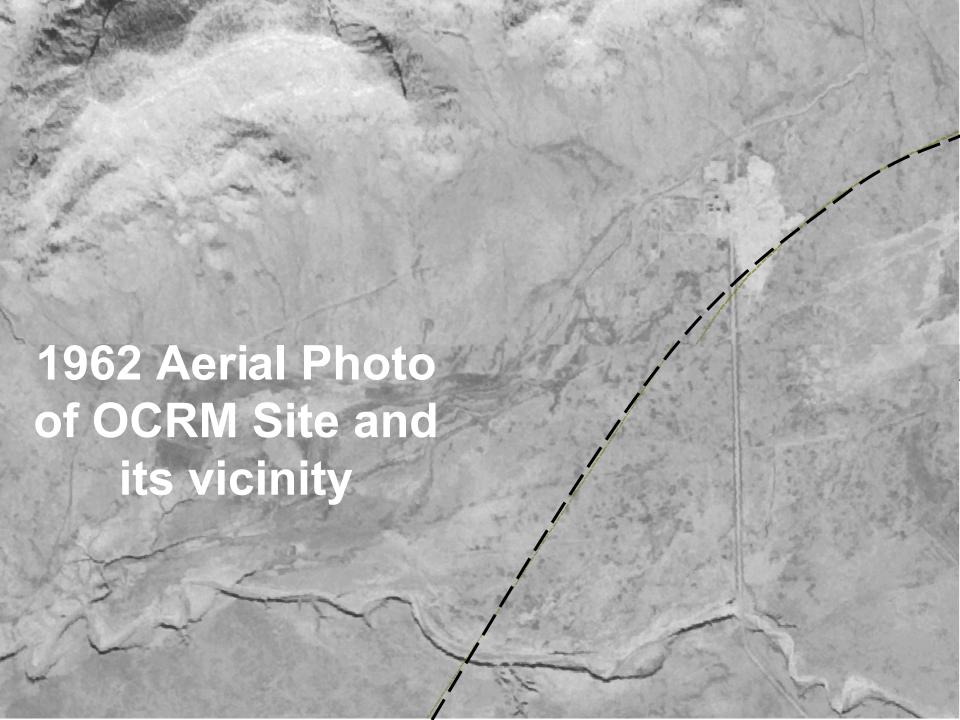


Soil bores carried out with a direct-push equipment (GeoProbe)

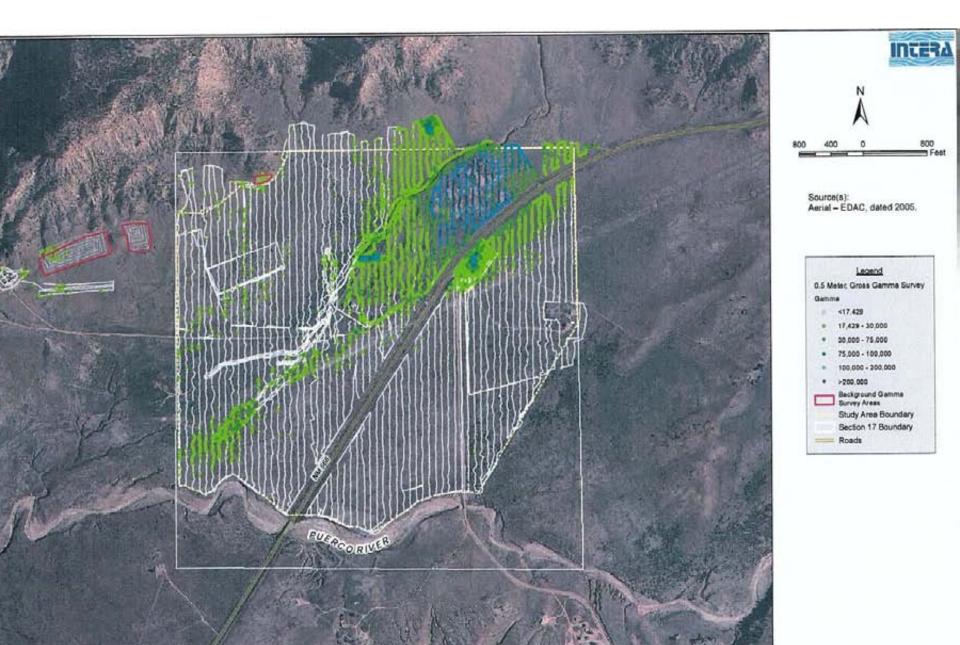


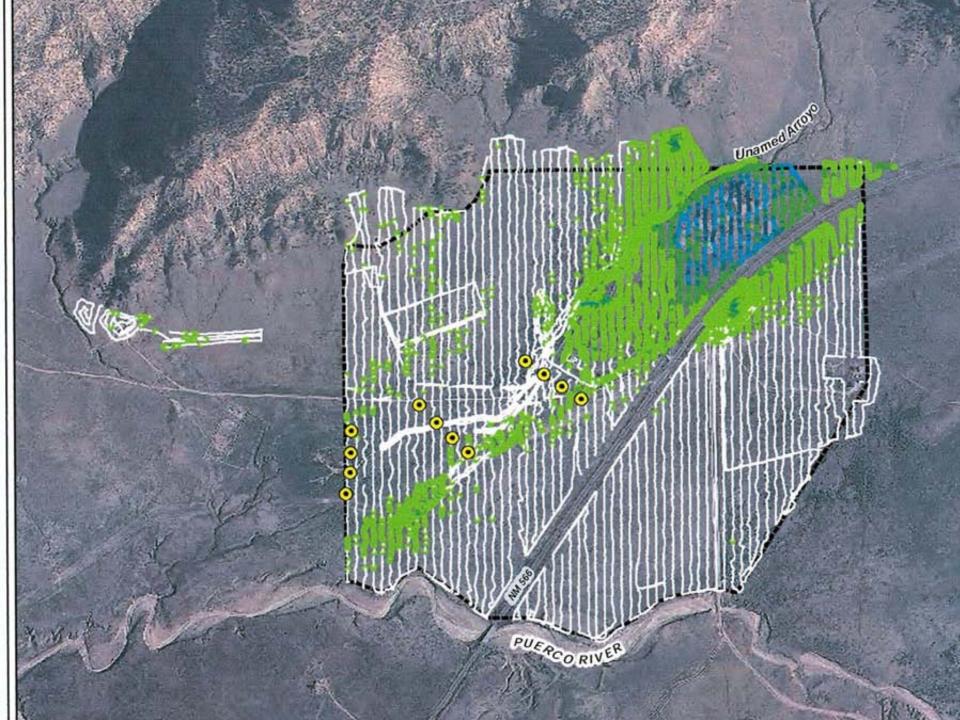


Data Collected w/Ratemeter Connected to GPS Equipment

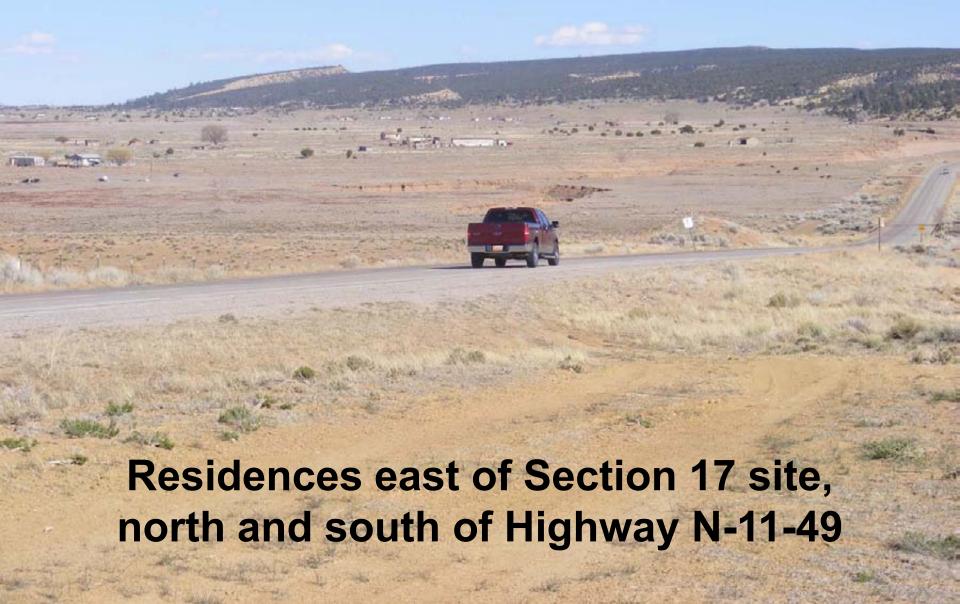


Results From Gamma Radiation Survey During May 2009





Associated Project: Radiological Survey Around Structures Downwind of Section 17





July 6, 2006 – Visit to Section 17 by the New Mexico Environment Department

Just So Happened ... 60+ MPH Winds That Day

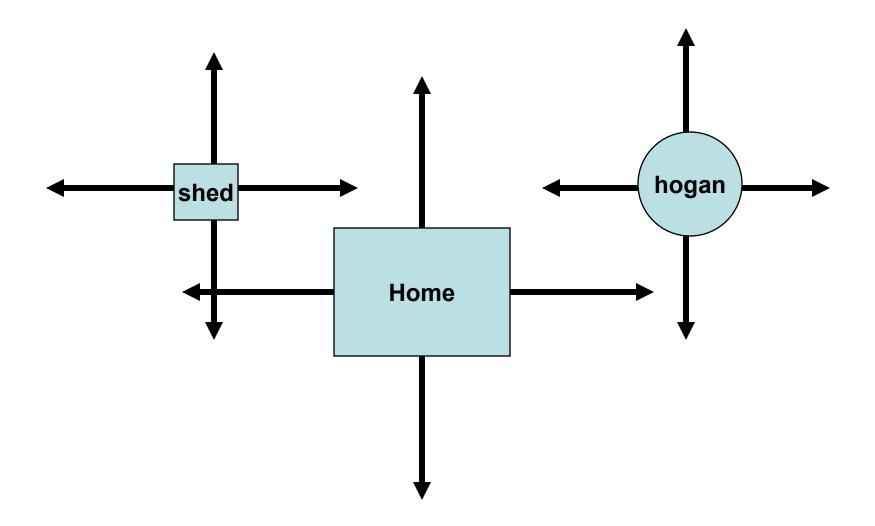






Radiological Survey to check on soils around structures, primarily main residences, hogans, storage buildings, and sheds.

Survey Method at Primary Structures



Reading collected every 10 feet over a 50-ft. length.