

UNITED NUCLEAR CORPORATION



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March 22, 2016

Mr. Andrew Persinko, Deputy Director
Division of Decommissioning, Uranium Recovery and Waste Programs
Office of Nuclear Materials Safety and Safeguards
U.S. Nuclear Regulatory Commission
11545 Rockville Pike
#2 White Flint, Mail Stop T8 F-5
Rockville, MD 20852-2738

Re: Annual Land Use Report for 2015

Dear Mr. Persinko:

The above report is submitted, pursuant to our NRC Source Materials License No. SUA-1475, Condition 31.

Sincerely,

A handwritten signature in cursive script that reads "Max Chischilly, Jr." with a small flourish at the end.

Max Chischilly, Jr.

Radiation Safety Officer

DY:

Enclosure

Cc: Jack E. Whitten, NRC Region IV
Roy Blickwedel, GE
Jim Smith, NRC
Document Control Desk NRC

NM5SD1



ANNUAL LAND USE SURVEY REPORT FOR 2015

UNITED NUCLEAR CORPORATION

LICENSE NO. SUA - 1475

CONDITION NO. 31

MARCH 22, 2016



SURVEY OF LAND OWNERSHIP AND USE WITHIN TWO-MILE RADIUS OF MILL SITE

UNITED NUCLEAR CORPORATION
License No. SUA-1475
Condition No. 31

1.0 Introduction

This report has been prepared pursuant to License Condition 31 of United Nuclear Corporation's License No. SUA – 1475. The information submitted in this report was acquired from the master title plate published by the Bureau of Land Management. United Nuclear Corporation maintains the surface ownership records. The map is a copy of the USGS Quadrangle of Hardground Flats, Oak Springs, and Churchrock, the photo revised in 1979. United Nuclear Corporation's Radiation Safety Officer performed the land use survey.

2.0 Area Ownership and Use

Reference the attached map (figure 1) for location in regards to Mill Site.

Area:	Owner:	Usage:
Section 1	Navajo Tribe	Grazing and well monitoring
Section 2*	United Nuclear	Mill & Tailings site, one employee homesite and well monitoring.
Section 3	Navajo Tribe	Grazing and well monitoring
Section 4	Indian Allotted	Grazing
Section 6	Indian Allotted	Grazing
Section 9	Navajo Tribe	Grazing
Section 10	Indian Allotted	Grazing, eleven homesite, and well monitoring
Section 11	Navajo Tribe	Grazing
Section 12	BLM, A, Etah, Etal	Grazing
Section 13	Navajo Tribe	Grazing
Section 14	Indian Allotted	Grazing
Section 15	Navajo Tribe	Grazing



Area:	Owner:	Usage:
Section 33	Navajo Tribe	Grazing
Section 34	BLM (western portion) United Nuclear (eastern portion)	Grazing
Section 35	Indian Trust for Navajo Tribe	UNC'S Remedial Northeast Churchrock Mine Site is located in this section.
Section 36	United Nuclear	Well monitoring, and pumping/extraction
Map Northern Portion of 2 mile radius	Navajo Reservation	Grazing, 22 home sites (house and hogan but 4 sites are unoccupied), former Kerr McGee's remedial Navajo Mine Site is located in this area, and UNC's biovent monitoring.
Section 31	Indian Allotted	Grazing

*Additional Note for Section 2:

The Mill has been decommissioned and has been cleaned to meet releasable standards for unrestricted use. Final remediation activity on the tailings area was completed in 1996 with the exception of evaporation pond area, currently used for ground water remediation. Final cover radon flux test result was reported in the "Report On Radon Emanation Testing Of Final Radon Cover Over UNC'S Church Rock Tailings Site, Docket No. 40-80907" submitted on January 3, 1997.

3.0 Current ongoing groundwater mill tailings seepage and other mine remediation activity

- 1) Sample/monitor wells on Sec. 2 and 36 (UNC), Sec. 1 and 3 (Navajo Tribe) and Sec. 10 (Indian Allotted) on a quarterly basis.
- 2) Continual pumping/extraction of wells RW-11, RW-16, RW-17, RW-A, NW-4 and NW-2. These wells are on UNC's Sec. 36 to enhance the remedy for cut off and containment of the migrating Zone 3 seepage impacted water.



- 3) Monthly monitoring (i.e. measure field parameters, in-house bicarbonate and chloride titration test) of wells NBL-2, PB-2, PB-3, PB-4, RW-A and NW series (1 thru 5), MW-6 and MW-7 to track the northern most migration of the seepage impacted water in Zone 3, Sec. 36.

- 4) Monitoring of an active bioventing system installed between May 14 to October 16, 2013 to remediate underlying soil impacted with hydrocarbon predominantly diesel range organics (DRO) and/or total petroleum hydrocarbons (THP) to 1000 mg/kg is ongoing in the northern portion and adjacent to sec. 35 UNC's NECR Mine Site on Navajo Reservation Land.

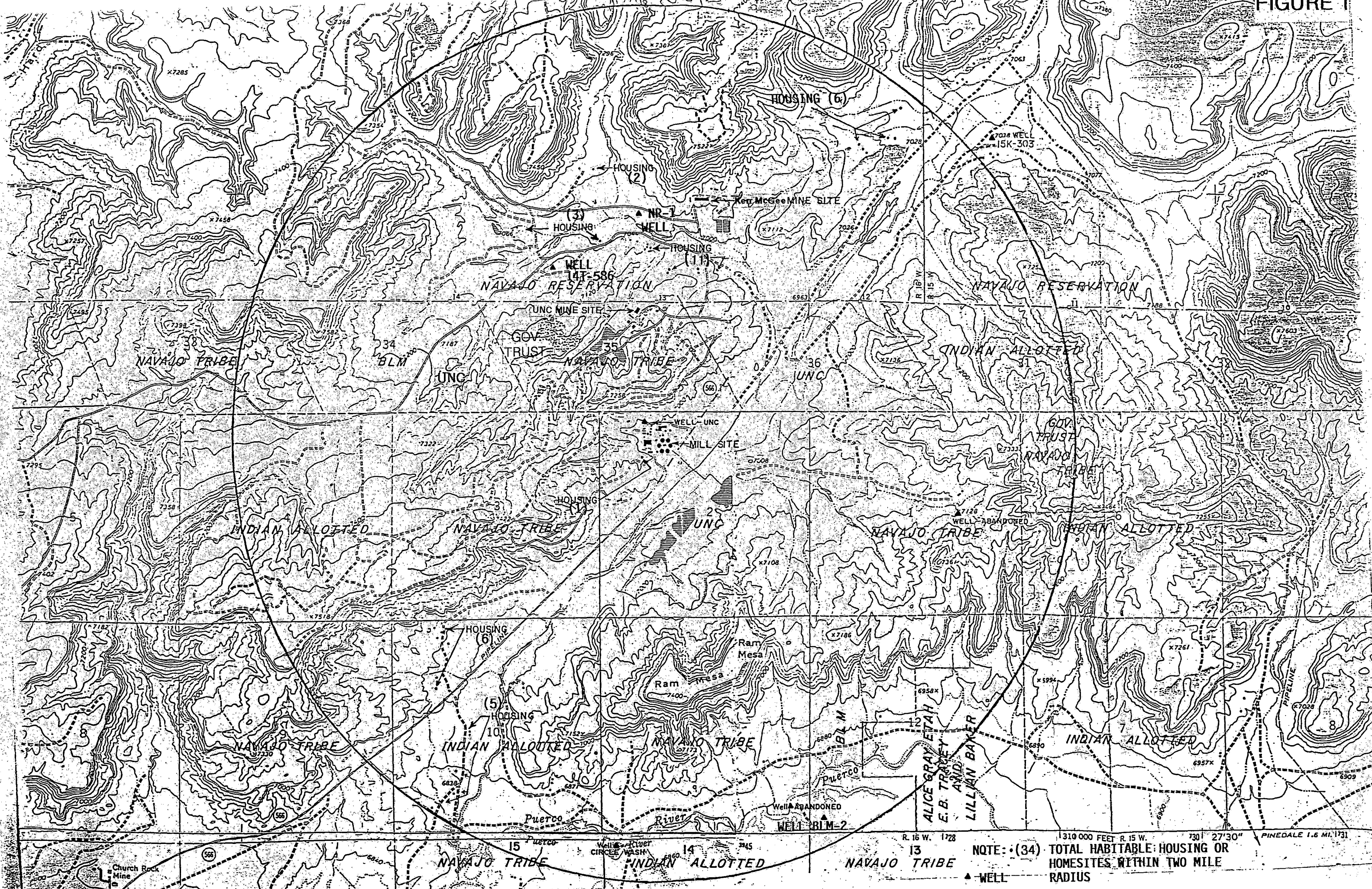


4.0 Well ID, Use, Location and Formation

Well ID:	Use:	Location:	Formation:
United Nuclear	Domestic (Active)	Sec. 2-Mill Site	Westwater
Circle Wash Abandoned	Domestic/ Livestock (Inactive)	Section 14	Alluvium
Unknown ID Abandoned	No Known Use	Section 11	Alluvium
J.E. Soper#1 Abandoned	No Known Use	Section 1	Two Wells- Members Mancos
BLM – 2	Monitor (Inactive)	Section 12	Alluvium
14T – 586 (Friendship well # 1)	Livestock (Active)	N.I.R. N Part of map	Lower Gallup
NR – 1	Monitor (Inactive)	N.I.R. N Part of map	Alluvium
15K – 303	Livestock (Active)	N.I.R. NE Part of Map	Upper Gallup

5.0 Significant changes or events which took place in 2015 are as follows:

- 1) No change under item 2.0 (Area ownership and Use) and item 4.0 (Well ID, Use, Location and Formation). Total current home site is thirty-four within the two mile radius of mill site.
- 2) Domestic mill well water was discharged into North and South evaporation pond on 10-13-15 and 11-2-15 respectively, until a base minimum water depth of 0.5 feet was attained and will be maintained for both ponds as an interim radon barrier up to final closure.



NOTE: (34) TOTAL HABITABLE HOUSING OR HOMESITES WITHIN TWO MILE RADIUS

▲ WELL

310 000 FEET R. 15 W. 730' 27' 30" PINEDALE 1.6 MI. 1731