



Projection: TRANSVERSE MERCATOR
 Code: 1000 Meter Universal Transverse Mercator Zone 12
 Datum: North American Datum of 1983
 Vertical Datum: NATIONAL GEODESIC SURVEY DATUM 1955
 Horizontal Datum: NATIONAL GEODESIC SURVEY DATUM 1983
 Map Scale: 1:50,000
 Date: 1/18/2011

Scale: 0 2 4 Miles / 0 3 6 Kilometers

The boundary was derived from digital vector data...
 U.S. EPA Region 9
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Water Sample Data

Map ID	Ranking	Sample Name	Sample ID	Field Type	Longitude	Latitude
1	2	Round Rock Well	C981117N26003	Well	109 14 55.4370	35 52 35.8668
2	5	White Rock Spring	C981118N26004	Spring	109 16 33.7468	35 54 14.8800
3	7	Haystack Spring	C981118N26001	Spring	109 19 2.3586	35 55 15.8020
4	3	Tuglio Spring	C981117N26001	Spring	109 23 30.3232	35 53 15.5093
5	4	Nazlini Chapter House	C981117N26001	Well	109 26 41.1763	35 53 36.2647
6	4	Web Spring	C981117N26002	Spring	109 27 35.0601	35 54 42.514
7	8	Tank 10K-24	C981117N26002	Well	109 27 8.6641	35 59 29.5487
8	10	Commodore Spring	C981122N26001	Spring	109 27 45.0288	36 19 38.0060
9	9	Tank 10K-236	C981122N26002	Well	109 29 6.3988	36 11 53.0261
10	1	Chinle Chapter House	C981112N26001	Well	109 33 32.9020	36 9 19.6224

Water Sample Risk Assessment Ranking
 Risk in Respect to Stable and Radioactive Materials
 Ranking From Lower Risk (1) to Higher Risk (10)

Ranking	Map ID	Name	Sample ID
1	10	Chinle Chapter House	C981112N26001
2	1	Round Rock Well	C981117N26003
3	4	Tuglio Spring	C981117N26001
4	6	Web Spring	C981117N26002
5	2	White Rock Spring	C981118N26004
6	5	Nazlini Chapter House	C981117N26001
7	3	Haystack Spring	C981118N26001
8	7	Tank 10K-24	C981117N26002
9	9	Tank 10K-236	C981122N26002
10	8	Commodore Spring	C981122N26001

Sample Sites

- Low Risk: Total Cancer Risk is less than or equal to 1E-05 and Hazard Index is less than or equal to 1 and Lead is less than 4 and U less than 30.
- Some Risk: Total Cancer Risk is less than or equal to 4E-04 but greater than 1E-05 or Hazard Index is less than 10 but greater than 1 or Lead is less than 15 but greater than 4 and total U less than 30.
- More Risk: Total Cancer Risk is greater than 4E-04 or Hazard Index is greater than 10 or Lead is greater than 15 or total U equal to or greater than 30.

Aerial Radiation Contours

Contour Level	Estimated Exposure Rate
10	3.5
170	7.4
250	10.9
300	34.9
1200	52.4

Historical Mine Locations

- Mine: Red star symbol
- Deposit: Blue star symbol

Legend

- Land Designation: Shaded areas for National, Private, and Wood-land.
- Chapter Boundary: Dashed line.
- Aerial Survey Boundary: Dotted line.
- Elevation contour (meters): Solid lines.
- Hydrography: Blue lines for rivers and streams.

United States Environmental Protection Agency Abandoned Uranium Mines Project

CHINLE STUDY AREA

Aerial Flight Zones, Water Sample Locations, and Radiation Contours

CHINLE STUDY AREA