Map ID	Sample ID	Field Type	Sample Name	Longitude DMS (W)	Latitude DMS (N)	Elevation (ft)	Sample Date	Sample Time	pH su	Cond uS/cm	Temp C	ORP millivolt	Metals	Radio	Filtration	Preserved	Bacterial Sampling	Ludlum 19 mR/hr	Notes
1	CT980724CAS001	Spring	Dry Spring Well	111 11 16.10	35 33 20.404	4626	24-Jul-1998	11:50 am	7.68	772	23.8	204	Yes	Yes	No	Yes	No	12	
2	CT980729CMS004	Spring	Badger Spring	111 11 46.95	35 38 26.761	4669	29-Jul-1998	2:23 pm	8.30	1,409	22.8	147	Yes	Yes	No	Yes	No	8	
3	CT980729CMS005	Spring	Tse To Baah Naali Spring	111 10 30.57	35 41 21.004	4472	29-Jul-1998	4:50 pm	8.45	1,285	26.3	179	Yes	Yes	No	Yes	No	12	Used Bailer
4	CT980729CMS003	Spring	Tohachi Spring	111 6 8.2338	35 41 14.010	4616	29-Jul-1998	12:45 pm	8.42	1,598	24.2	171	Yes	Yes	No	Yes	No	12	Handpump
5	CT980727CAS002	Spring	Yellow Spring	111 17 53.78	35 39 53.489	4393	27-Jul-1998	10:04 am	8.18	1,131	24.1	198	Yes	Yes	No	Yes	No	12	
6	CT980729CMS002	Spring	Willow Spring	111 3 34.856	35 45 6.6359	5259	29-Jul-1998	10:25 am	8.43	473	23.3	182	Yes	Yes	No	Yes	No	8-15	
7	CT980727CAW005	Well	Shallow Well	111 22 3.099	35 45 18.348	4242	27-Jul-1998	2:19 pm	8.47	1,350	25.3	188	Yes	Yes	No	Yes	No	16	Sample ID changed from CT980727CAS005 to CT980727CAW005
8	CT980727CAW004	Wind Mill	Tank 3K-331	111 24 24.94	35 46 8.2854	4324	27-Jul-1998	1:20 pm	8.25	598	28.7	164	Yes	Yes	No	Yes	No	14	Taken from Trough
9	CT980722CAW001	Wind Mill	Tank 3T-538	111 21 21.10	35 50 15.454	4078	22-Jul-1998	1:33 pm	8.04	2,670	29.9	167	Yes	Yes	No	Yes	No	19	
10	CT980724CAW003	Wind Mill	Tank 3T-527	111 26 59.39	35 51 13.433	4354	24-Jul-1998	2:10 pm	8.04	652	22.1	232	Yes	Yes	No	Yes	No	14	Taken from WM Discharge
11	CT980722CAM002	Mine	Open Pit Mine	111 22 24.60	35 52 20.893	4068	22-Jul-1998	11:34 am	9.03	1,234	25.8	160	Yes	Yes	No	Yes	No	200-600	
12	CT980724CAW002	Well	Cameron Trading Post	111 24 48.80	35 52 27.954	4157	24-Jul-1998	1:29 pm	7.97	1,716	19.0	221	Yes	Yes	No	Yes	No	12	
13	CT990415CAW006	Well	Cameron Chapter House	111 24 58.04	35 52 10.524	4213	15-Apr-1999	1:57 pm	8.02	445	17.6	389	Yes	Yes	No	Yes	No	10-12	Taken at Kitchen Sink, PWS; Cameron Chapter House
14	CT980722CAM003	Mine	Open Pit Mine	111 24 4.018	35 54 18.974	4104	22-Jul-1999	11:35 am	8.90	3,710	31.7	141	Yes	Yes	No	Yes	No	600	
15	CT980728CMW005	Wind Mill	Tank 3A-151	111 5 12.352	35 51 24.136	5358	28-Jul-1998	3:05 pm	8.83	420	20.2	226	Yes	Yes	No	Yes	No	10	Taken from WM Discharge
16	CT980810CMW006	Wind Mill	Tank 3T-540	111 3 35.864	35 55 4.7813	5860	10-Aug-1998	11:49 pm	8.37	586	24.7	195	Yes	Yes	No	Yes	No	9	
17	CT980728CMW003	Wind Mill	Tank 3K-312	111 2 55.228	36 0 41.3513	5755	28-Jul-1998	12:54 pm	8.27	410	25.5	144	Yes	Yes	No	Yes	No	12	Taken from Trough
18	CT980728CMW004	Wind Mill	Goldtooth Well	111 8 48.643	35 54 29.884	5299	28-Jul-1998	2:07 pm	8.29	792	24.9	192	Yes	Yes	No	Yes	No	8	Taken from WM Discharge
19	CT980810CMS006	Spring	Goldtooth Spring (Rock Spring)	111 14 22.08	35 57 52.993	5144	10-Aug-1998	10:26 am	7.98	266	22.7	223	Yes	Yes	No	Yes	No	8	BAILER USED
20	CT980811TCW001	Well	Shadow Mountain Well	111 26 29.11	36 2 1.74299	4455	11-Aug-1998	3:08 pm	7.71	1,673	26.4	242	Yes	Yes	No	Yes	No	15-20	
21	CT980813HOS001	Spring	Little Dog Spring	111 13 10.60	36 6 22.1976	4649	13-Aug-1998	10:57 am	8.09	437	29.0	234	Yes	Yes	No	Yes	No	9	
22	CT980813HOS003	Spring	Wisemen Spring	111 12 34.86	36 6 17.0988	4577	13-Aug-1998	1:16 pm	7.37	289	22.4	232	Yes	Yes	No	Yes	No	12-15	
23	CT980813HOS002	Spring	Gaging Station Spring	111 11 55.22	36 6 20.2457	4626	13-Aug-1998	11:57 am	7.63	358	25.7	226	Yes	Yes	No	Yes	No	13	
24	CT980813HOW001	Spring	Lower Moenkopi Well	111 13 10.59	36 6 22.2119	4570	13-Aug-1998	2:38 pm	7.68	345	29.0	201	Yes	Yes	No	Yes	No	9	
25	CT980813HOS004	Spring	Yellowjacket Spring	111 13 25.73	36 6 30.6864	4642	13-Aug-1998	3:19 pm	7.92	775	31.7	162	Yes	Yes	No	Yes	No	15	
26	CT990415TCW006	Well	Tuba City Chapter House	111 14 8.519	36 7 32.7773	4833	15-Apr-1999	12:35 pm	7.99	229	18.7	598	Yes	Yes	No	Yes	No	8-10	Taken at Kitchen Sink, PWS; Tuba City Chapter House
27	CT980728CMW001	Wind Mill	Tank 3T-541	111 3 23.908	36 7 29.2703	5108	28-Jul-1998	10:57 am	9.16	590	24.3	122	Yes	Yes	No	Yes	No	6	Taken from Trough
28	CT980811TCS001	Spring	Lechee Spring	111 4 46.271	36 8 51.5334	4787	11-Aug-1998	10:34 am	8.26	1,160	21.0	215	Yes	Yes	No	Yes	No	10	
29	CT980811TCS002	Spring	Shonto Well (3A-144)	111 6 43.575	36 8 4.63740	4695	11-Aug-1998	11:49 am	8.27	542	23.9	230	Yes	Yes	No	Yes	No	9	
30	CT980812TCW004	Well	Rabbit Brush Well	111 13 4.949	36 11 8.6286	5121	12-Aug-1998	12:52 pm	7.91	264	23.7	178	Yes	Yes	No	Yes	No	4	Sample ID changed from CT980812TC2004 to CT980812TCW004
31	CT980812TCW003	Wind Mill	Navajo John Well	111 11 29.10	36 12 37.406	5157	12-Aug-1998	12:02 pm	8.73	491	24.4	176	Yes	Yes	No	Yes	No	7	Sample ID changed from CT980812TC2003 to CT980812TCW003
32	CT980812TCW002	Wind Mill	Tank-Middle Mesa (1T-518)	111 1 48.577	36 14 30.160	5541	12-Aug-1998	11:16 am	8.92	247	23.1	168	Yes	Yes	No	Yes	No	8	Sample ID changed from CT980812TCW001 to CT980812TCW002
33	CT980812TCW005	Wind Mill	Standing Rock Well	111 13 39.56	36 14 18.703	5207	12-Aug-1998	1:51 pm	6.91	609	22.4	232	Yes	Yes	No	Yes	No	4	Sample ID changed from CT980812TC2005 to CT980812TCW005
34	CT980804BGS001	Spring	Hidden Spring	111 23 42.33	36 11 21.901	4734	04-Aug-1998	5:54 pm	9.18	721	30.5	236	Yes	Yes	No	Yes	No	20	
35	CT980804BGW001	Well	Bodaway Gap Chapter House	111 27 30.44	36 18 13.647	5207	04-Aug-1998	3:36 pm	7.69	295	24.1	NA	Yes	Yes	No	Yes	No	12	Batch QC Sample Taken
36	CT980805BGW004	Wind Mill	Tanner Wash Windmill	111 39 35.15	36 36 22.445	5059	05-Aug-1998	11:44 am	7.94	2,400	22.3	290	Yes	Yes	No	Yes	No	8	
37	CT980805BGS002	Spring	Navajo Spring	111 37 17.99	36 46 27.995	3894	05-Aug-1998	12:51 pm	7.99	302	31.5	272	Yes	Yes	No	Yes	No	12-22	
38	CT980805BGS003	Spring	Toh De Koinsh Spring	111 38 45.43	36 39 44.487	4869	05-Aug-1998	3:08 pm	7.27	405	28.9	285	Yes	Yes	No	Yes	No	20-45	
39	CT000107CMW007	Wind Mill	Tank 3T-547	111 2 7.2125	35 47 46.895	5410	07-Jan-2000	12:03 pm	8.62	NA	4.6	243	Yes	Yes	No	Yes	Yes	8-10	
40	CT000107CMW008	Wind Mill	Tank 3A-149	111 4 4.4543	35 56 58.634	5820	07-Jan-2000	2:52 pm	8.59	NA	3.1	258	Yes	Yes	No	Yes	Yes	7-10	
41	CT000119CMS008	Spring	Gold Spring	111 4 28.486	35 46 4.1976	5260	19-Jan-2000	1:34 pm	7.12	845	12.9	202	Yes	Yes	No	Yes	Yes	6-8	
42	CT000119CMW010	Wind Mill	3-T-504	111 7 36.614	35 52 13.764	5397	19-Jan-2000	3:25 pm	9.30	1,010	13.4	231	Yes	Yes	No	Yes	Yes	8-10	
43	CT000119CMW011	Wind Mill	3-K-328	111 2 2.3333	35 50 29.237	5693	19-Jan-2000	4:46 pm	8.60	999	11.2	258	Yes	Yes	No	Yes	Yes	6-8	
44	CT000120CMS008	Spring	Al Hasteen Nez Spring	111 0 13.985	36 4 54.3888	5030	20-Jan-2000	11:30 am	7.43	3,190	11.3	196	Yes	Yes	No	Yes	Yes	6-8	
45	CT000120CMS009	Spring	Fivemile Wash Spring	111 19 24.75	35 58 31.906	4418	20-Jan-2000	4:00 pm	9.44	7,110	12.2	215	Yes	Yes	No	Yes	Yes	8	
46	CT000124CMS010	Spring	Toh Nee Di Kishi	111 15 18.16	36 1 50.0682	4969	24-Jan-2000	1:30 pm	8.92	569	15.6	168	Yes	Yes	No	Yes	Yes	8	
47	CT000125CMS011	Spring	Tohnalea	111 14 36.33	36 0 10.3146	4968	25-Jan-2000	1:00 pm	9.01	537	11.0	158	Yes	Yes	No	Yes	Yes	6	
48	CT000125CMS012	Spring	Harry Goldtooth Spring	111 14 47.78	36 6 1.50598	4610	25-Jan-2000	5:00 pm	9.11	1,669	7.4	199	Yes	Yes	No	Yes	Yes	12-13	
49	CT991130CAS003	Spring	Balokai Spring	111 16 48.43	35 40 51.304	4532	30-Nov-1999	3:23 pm	8.61	3	14.8	196	Yes	Yes	No	Yes	Yes	10-12	
50	CT991130CAW007	Well	Paddock Well	111 15 36.88	35 42 3.6629	4240	30-Nov-1999	4:21 pm	8.69	985	15.6	256	Yes	Yes	No	Yes	Yes	13-15	
51	Shonto Well -DOE	Well	Shonto Well - DOE	NA	NA	0	17-Aug-1999		0.00	0	0.0	0	Yes	Yes	No	Yes	No	NA	DOE data generated from livestock trough, Uranium values calculated from p

Abandoned Uranium Mines Project
Navajo Lands

Cameron/Tuba City Area

Water Sample Analysis for Stable Metals

Map ID	Sample ID	Sample Name	Field Type	Aluminum	Antimony [2]	Arsenic [2,4]	Barium	Beryllium [2,4]	Cadmium [2,4]	Calcium	Chromium [2,5]	Cobalt [2]	Copper [2]	Iron [2]	Lead [2]	Magnesium	Manganese [2]	Mercury [2]	Nickel [2]	Potassium [2]	Selenium [2]	Silver [2]	Sodium	Thallium [2,5]	Vanadium [2]	Zinc [2]	ILCR [1,6]	HI [3,6]
		Primary MCLs in Micrograms per Liter (ug/L) [7]		1000	6	50	1000	4	5	NONE	100	NONE	1300	300	15	NONE	50	2	NONE	NONE	50	100	NONE	2	NONE	5000		
		PRG Limits in Micrograms per Liter (ug/L) [8]		37000	15	0.045	2600	73	18	NONE	180	2200	1400	1100	4	NONE	1700	11	730	NONE	189	180	NONE	2.6	260	11000		
1	CT980724CAS001	Dry Spring Well	Spring	107.0	0	3.7	75.4	0	0	31,100	0	0	0	0	0	4,320	0.7	0	0	1,880	0	0	151,000	0	21.6	7.9	8.22E-005	0.45
2	CT980729CMS004	Badger Spring	Spring	161.0	0	51.1	57.4	0	0	7,550	0	0	4.7	90.3	0	3,050	2.1	0.019	0	1,030	0	0	306,000	2.9	409.0	40.1	1.14E-003	7.38
3	CT980729CMS005	Tse To Baah Naali Spring	Spring	868.0	0	31.9	55.1	0	0	5,670	0	0	2.3	344.0	0	2,500	5.2	0.025	0	2,110	6.2	0	261,000	5.7	209.0	10.3	7.09E-004	6.01
4	CT980729CMS003	Tohachi Spring	Spring	63.0	0	54.8	23.0	0	0	5,610	0	0	3.3	0	4.0	1,920	0.6	0	0	1,320	12.5	0	353,000	0	256.0	158.0	1.22E-003	6.06
5	CT980727CAS002	Yellow Spring	Spring	52.2	0	6.2	32.2	0	0	27,400	0	0	124.0	951.0	4.4	3,710	54.2	0	0	2,460	0	0	225,000	3.3	30.3	112.0	1.38E-004	2.18
6	CT980729CMS002	Willow Spring	Spring	61.9	0	0	45.2	0.1	0	51,000	0	0	36.6	2,080.0	4.9	5,770	10.8	0	0	8,660	0	0	37,800	0	29.1	158.0	0.00E+00	0.37
7	CT980727CAW005	Shallow Well	Well	61,900.0	0	6.6	773.0	3.7	2.4	71,500	27.0	22.9	91.4	37,100.	51.3	26,200	1,360.0	0.130	31.9	15,400	21.6	0	270,000	0	103.0	871.0	1.47E-004	7.80
8	CT980727CAW004	Tank 3K-331	Wind Mill	63.5	0	0	28.6	0	0	98,500	0	0	5.9	275.0	0	54,000	25.4	0	0	4,490	0	0	930,000	0	0	1,610.0	0.00E+00	0.20
9	CT980722CAW001	Tank 3T-538	Wind Mill	116.0	0	0	30.5	0	0	66,800	0	0	0	315.0	0	21,800	11.0	0	0	4,650	0	0	397,000	0	0	85.1	0.00E+00	0.06
10	CT980724CAW003	Tank 3T-527	Wind Mill	35.2	0	0	26.1	0	0	52,900	0	0	8.7	267.0	0	36,400	2.7	0	0	5,660	3.7	0	34,200	0	4.8	151.0	0.00E+00	0.09
11	CT980722CAM002	Open Pit Mine	Mine	82,500.0	0	29.8	1,150.0	5.0	0.9	51,700	14.4	23.7	89.0	26,400.	38.0	20,900	709.0	0.160	17.4	14,100	3.8	0	241,000	0	125.0	88.3	6.62E-004	9.02
12	CT980724CAW002	Cameron Trading Post	Well	88.8	0	3.3	16.8	0	0	52,500	0	0	14.6	55.4	0	29,000	24.9	0.009	0	5,500	0	0	316,000	0	0	8.3	7.33E-005	0.34
13	CT990415CAW006	Cameron Chapter House	Well	0	0	3.5	30.7	0	0	57,100	0	0	0	50.3	1.1	24,200	65.2	0	0	4,020	0	0	340,000	0	0	964.0	7.78E-005	0.46
14	CT980722CAM003	Open Pit Mine	Mine	463,000.0	4.3	145.0	7,690.0	42.5	6.4	249,000	44.8	110.0	468.0	139,00	343.0	84,200	4,140.0	0.440	82.5	63,500	3.6	0	809,000	0	322.0	444.0	3.22E-003	47.03
15	CT980728CMW005	Tank 3A-151	Wind Mill	44.7	0	0	1.7	0	0	4,970	0	0	9.8	636.0	0	1,290	12.6	0	0	1,390	0	0	98,200	0	0	122.0	0.00E+00	0.09
16	CT980810CMW006	Tank 3T-540	Wind Mill	49.1	0	0	38.8	0	0	65,600	0	0	0	54.0	0	16,600	107.0	0.022	0	2,340	0	0	29,500	0	0	965.0	0.00E+00	0.17
17	CT980728CMW003	Tank 3K-312	Wind Mill	43.8	0	0	49.7	0	0	26,900	0	0	1.9	56.8	0	4,560	15.0	0	0	6,570	0	0	52,500	0	0	110.0	0.00E+00	0.05
18	CT980728CMW004	Goldtooth Well	Wind Mill	46.5	0	0	8.8	0	0	32,100	0	0	13.7	1,440.0	0	6,120	11.0	0.008	0	2,080	0	0	132,000	3.1	0	149.0	0.00E+00	1.36
19	CT980810CMS006	Goldtooth Spring (Rock Spring)	Spring	118.0	0	3.9	121.0	0	0	30,100	0	0	3.4	74.6	0	2,440	189.0	0.016	0	971	0	0	20,800	0	36.3	35.5	8.67E-005	0.67
20	CT980811TCW001	Shadow Mountain Well	Well	94.6	0	6.6	72.6	0	0	63,800	0	0	8.0	674.0	0	16,400	18.3	0.016	0	0	0	0	190,000	3.3	9.2	36.1	1.47E-004	2.02
21	CT980813HOS001	Little Dog Spring	Spring	531.0	0	2.8	91.3	0	0	32,400	0	0	2.7	230.0	0	6,670	21.8	0.019	0	4,320	0	0	49,000	0	3.4	4.4	6.22E-005	0.35
22	CT980813HOS003	Wisemen Spring	Spring	521.0	0	0	26.3	0	0	19,400	0	0	0	257.0	0	2,250	13.3	0.018	0	3,230	0	0	46,400	0	7.7	3.9	0.00E+00	0.09
23	CT980813HOS002	Gaging Station Spring	Spring	118.0	0	0	99.5	0	0	23,700	0	0	0	40.3	0	5,050	8.2	0.017	0	3,380	0	0	36,300	0	6.6	7.6	0.00E+00	0.08
24	CT980813HOW001	Lower Moenkopi Well	Spring	53.0	0	3.8	55.1	0	0	28,500	0	0	0	0	0	6,390	0	0.012	0	1,540	0	0	29,500	0	6.6	84.5	8.44E-005	0.40
25	CT980813HOS004	Yellowjacket Spring	Spring	335.0	0	3.4	95.2	0	0	64,000	0	0	2.1	141.0	0	13,900	31.7	0	0	3,030	3.4	0	59,200	4.8	29.3	7.3	7.56E-005	2.37
26	CT990415TCW006	Tuba City Chapter House	Well	40.9	3.8	2.6	46.6	0	0	25,800	0	1.0	11.8	21.8	0	4,400	0	0	0	1,380	0	0	8,230	3.2	9.4	12.1	5.78E-005	1.79
27	CT980728CMW001	Tank 3T-541	Wind Mill	55.8	0	7.3	16.2	0	0	5,530	0	0	3.8	76.1	0	2,290	3.9	0	0	2,330	0	0	127,000	0	67.7	79.5	1.62E-004	0.95
28	CT980811TCS001	Lechee Spring	Spring	68.8	0	0	60.3	0	0	74,200	0	0	3.8	76.7	0	23,600	0.7	0.022	0	7,860	8.2	0	229,000	3.0	9.0	100.0	0.00E+00	1.28
29	CT980811TCS002	Shonto Well (3A-144)	Spring	19,100.0	0	30.8	365.0	0.7	1.1	112,000	18.7	6.7	87.1	20,200.	81.8	18,500	500.0	0.039	13.5	5,970	5.4	0	74,500	0	73.2	2,110.0	6.84E-004	6.35
30	CT980812TCW004	Rabbit Brush Well	Well	50.7	0	5.2	76.4	0	0	36,700	0	0	3.9	208.0	0	5,490	2.5	0.022	0	1,740	0	0	12,900	0	20.6	96.4	1.16E-004	0.62
31	CT980812TCW003	Navajo John Well	Wind Mill	168.0	0	2.7	98.6	0	0	36,100	0	0	11.4	55.2	0	9,240	3.1	0	0	2,330	4.2	0	53,900	5.4	10.3	18.7	6.00E-005	2.44
32	CT980812TCW002	Tank-Middle Mesa (1T-518)	Wind Mill	60.0	0	2.7	71.7	0	0	29,700	0	0	4.9	53.2	0	6,090	5.0	0.014	0	2,120	0	0	14,400	0	7.5	157.0	6.00E-005	0.33
33	CT980812TCW005	Standing Rock Well	Wind Mill	47.5	0	4.1	209.0	0	0	66,600	0	0	64.5	209.0	2.6	9,930	50.3	0.036	0	36,600	0	0	14,700	0	10.4	167.0	9.11E-005	0.61
34	CT980804BGS001	Hidden Spring	Spring	90.9	0	10.3	53.2	0.1	0	1,770	10.6	0	9.3	0	0	924	0.4	0.031	0	1,480	11.5	0	133,000	6.9	234.0	11.8	2.29E-004	4.65
35	CT980804BGW001	Bodaway Gap Chapter House	Well	71.5	0	4.6	41.3	0	0	31,900	0	0	14.7	160.0	0	8,080	1.1	0.020	0	1,600	0	0	16,900	3.0	5.8	21.0	1.02E-004	1.64
36	CT980805BGW004	Tanner Wash Windmill	Wind Mill	126.0	0	0	13.4	0	0	325,000	0	0	8.2	56.0	0	150,000	4.0	0.019	0	8,640	23.6	0	141,000	0	0	101.0	0.00E+00	0.16
37	CT980805BGS002	Navajo Spring	Spring	70.2	0	7.6	258.0	0	0	17,500	0	0	0	28.1	0	10,000	1.0	0.022	0	1,420	0	0	23,800	0	7.2	45.6	1.69E-004	0.83
38	CT980805BGS003	Toh De Koinsh Spring	Spring	183.0	0	0	10.4	0	0	551,000	0	0	0	75.1	0	219,000	9.7	0.028	0	21,000	35.7	0	217,000	3.3	0	9.7	0.00E+00	1.48
39	CT000107CMW007	Tank 3T-547	Wind Mill	0	0	0	0.6	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00	0.00
40	CT000107CMW008	Tank 3A-149	Wind Mill	0	0	1.2	23.4	0	1.1	35,800	0	0	3.9	571.0	1.2	11,500	2.2	0	0	2,730	0	0	128,000	0	0	278.0	2.67E-005	0.26
41	CT000119CMS008	Gold Spring	Spring	1,540.0	0	0.5	34.4	0	0.0	29,800	0	0	0	942.0	2.1	5,840	129.0	0	0	5,320	1.3	0	18,300	0	5.9	13.4	1.20E-005	0.30
42	CT000119CMW010	3-T-504	Wind Mill	0	0	0.6	1.2	0	0	3,570	0	0	31.1	1,650.0	1.3	610	42.4	0	0	1,280	0	0	173,000	0	0	182.0	1.31E-005	0.27
43	CT000119CMW011	3-K-328	Wind Mill	31.0	0	0	32.2	0	0	138,000	0	0	0	238.0	0.7	34,600	12.9	0	0	4,450	1.6	0	23,000	0	0	229.0	0.00E+00	0.07

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Abandoned Uranium Mines Project
Navajo Lands

Cameron/Tuba City Area

Water Sample Analysis for Stable Metals

Map ID	Sample ID	Sample Name	Field Type	Aluminum	Antimony [2]	Arsenic [2,4]	Barium	Beryllium [2,4]	Cadmium [2,4]	Calcium	Chromium [2,5]	Cobalt [2]	Copper [2]	Iron [2]	Lead [2]	Magnesium	Manganese [2]	Mercury [2]	Nickel [2]	Potassium [2]	Selenium [2]	Silver [2]	Sodium	Thallium [2,5]	Vanadium [2]	Zinc [2]	ILCR [1,6]	HI [3,6]
		Primary MCLs in Micrograms per Liter (ug/L) [7]		1000	6	50	1000	4	5	NONE	100	NONE	1300	300	15	NONE	50	2	NONE	NONE	50	100	NONE	2	NONE	5000		
		PRG Limits in Micrograms per Liter (ug/L) [8]		37000	15	0.045	2600	73	18	NONE	180	2200	1400	1100	4	NONE	1700	11	730	NONE	189	180	NONE	2.6	260	11000		
44	CT000120CMS008	Al Hasteen Nez Spring	Spring	311.0	0	1.3	21.8	0	0.2	146,000	0	0	0	253.0	2.4	70,900	234.0	0	0	6,500	0	0	489,000	0	0	0	2.89E-005	0.31
45	CT000120CMS009	Fivemile Wash Spring	Spring	479.0	0	8.9	207.0	0	0.1	59,800	0	0	0	227.0	0	23,100	32.8	0	0	11,800	9.8	0	1,410,000	0	19.0	0	1.97E-004	1.07
46	CT000124CMS010	Toh Nee Di Kishi	Spring	237.0	0	5.4	13.4	0	0	6,950	0	0	0	184.0	0	1,930	4.8	0	0	2,160	5.7	0	110,000	0	8.4	0	1.20E-004	0.58
47	CT000125CMS011	Tohnalea	Spring	18,100.0	0	8.5	159.0	0	0.2	51,000	6.2	4.1	17.5	11,300.	11.5	15,600	411.0	0.016	7.0	22,600	2.1	0	50,400	0	35.7	55.7	1.88E-004	2.81
48	CT000125CMS012	Harry Goldtooth Spring	Spring	19,000.0	0	6.8	143.0	0	0.1	18,700	5.8	4.0	3.5	11,300.	2.9	9,250	239.0	0	6.8	7,850	15.1	0	352,000	0	43.2	29.2	1.52E-004	2.66
49	CT991130CAS003	Balokai Spring	Spring	0	0	9.0	18.5	0	0.0	24,400	0	0	0	0	0	4,150	2.0	0	0	1,470	3.2	0	297,000	0	43.2	4.4	2.01E-004	1.01
50	CT991130CAW007	Paddock Well	Well	56.0	0	25.3	71.6	0	0.1	5,820	4.6	0	15.4	73.0	1.7	2,030	1.1	0	0	1,100	8.5	0	221,000	0	173.0	33.4	5.62E-004	3.09
51	Shonto Well -DOE	Shonto Well - DOE	Well	0	0	4.9	79.3	0	0	25,900	0	0	0	30.8	0	7,600	0	0	0	1,830	3.7		74,400	0		17.8	1.09E-004	0.50

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Abandoned Uranium Mines Project
Navajo Lands

Cameron/Tuba City Area

Water Sample Analysis for Radioactive Metals

Map ID	Sample ID	Sample Name	Field Type	Alpha [2]	Beta [3]	Lead210 [4]	Radium226 [2]	Radium228 [2]	Thorium228 [2]	Thorium230 [2]	Thorium232 [2]	Uranium234 [2]	Uranium235 [2]	Uranium238 [2,6]	ILCRrad [1,5]
		Primary MCL's in pico Curies per Liter (pCi/L) [7]		15	50	NONE	5	5	NONE	NONE	NONE	20	20	20	
		PRG Limits in pico Curies per Liter (pCi/L) [8]		NONE	NONE	0.047	0.16	0.19	0.21	1.3	1.5	1.1	1.1	0.71	
1	CT980724CAS001	Dry Spring Well	Spring	10.40	7.33	0.67	0.067	0.308	0.005	0.023	0.007	6.11	0.129	4.99	2.89E-005
2	CT980729CMS004	Badger Spring	Spring	21.50	9.85	0.58	0.051	0	0.004	0	0	12.00	1.200	8.86	2.48E-005
3	CT980729CMS005	Tse To Baah Naali Spring	Spring	17.60	8.81	0.61	0.060	0.215	0.020	0.029	0.005	14.30	0.590	8.44	2.71E-005
4	CT980729CMS003	Tohachi Spring	Spring	45.50	36.90	0.82	0.073	0.689	0.002	0.015	0	48.50	1.500	34.20	1.15E-004
5	CT980727CAS002	Yellow Spring	Spring	6.10	8.11	1.03	0.362	0.756	0.002	0.019	0	4.79	0.303	3.26	3.74E-005
6	CT980729CMS002	Willow Spring	Spring	11.00	12.80	0.69	0.078	0.672	0.011	0	0.010	4.10	0.184	4.25	1.40E-005
7	CT980727CAW005	Shallow Well	Well	0	0	4.96	0.406	1.630	0	0	0	0	0	0	1.17E-004
8	CT980727CAW004	Tank 3K-331	Wind Mill	0	3.71	1.06	0.586	1.540	0.054	0.017	0	1.79	0	0.43	3.68E-005
9	CT980722CAW001	Tank 3T-538	Wind Mill	5.80	4.45	0.28	0.166	0.311	0	0.005	0	1.66	0	0.98	5.56E-006
10	CT980724CAW003	Tank 3T-527	Wind Mill	4.43	5.14	0.49	0.066	0.458	0.013	0.011	0	1.56	0.125	1.69	6.81E-006
11	CT980722CAM002	Open Pit Mine	Mine	135.00	125.00	9.38	7.120	3.230	2.510	3.410	1.560	27.40	1.030	22.50	3.34E-004
12	CT980724CAW002	Cameron Trading Post	Well	1.78	6.11	0.39	0.049	0.567	0.004	0.004	0	1.65	0.060	1.08	6.39E-006
13	CT990415CAW006	Cameron Chapter House	Well	1.03	5.79	0.54	0.064	0.460	0.006	0.018	0	1.10	0.059	0.77	5.00E-006
14	CT980722CAM003	Open Pit Mine	Mine	474.00	735.00	36.20	21.800	20.400	18.000	14.800	14.700	30.10	1.180	25.80	1.19E-003
15	CT980728CMW005	Tank 3A-151	Wind Mill	0.31	1.14	0	0.581	2.480	0.048	0.018	0	0.22	0	0	1.71E-005
16	CT980810CMW006	Tank 3T-540	Wind Mill	0.44	2.86	0.30	0.220	0.742	0	0.008	0	0.01	0	0	5.29E-006
17	CT980728CMW003	Tank 3K-312	Wind Mill	0.65	5.95	0.29	0.121	0.813	0	0.004	0.002	0.07	0.044	0	5.15E-006
18	CT980728CMW004	Goldtooth Well	Wind Mill	3.68	4.02	0.09	0.288	0.546	0	0.016	0.017	0.99	0	1.46	7.66E-006
19	CT980810CMS006	Goldtooth Spring (Rock Spring)	Spring	6.78	4.78	1.71	0.096	0.362	0	0.008	0.011	1.39	0.034	1.35	4.21E-005
20	CT980811TCW001	Shadow Mountain Well	Well	12.10	14.70	0.39	0.096	0.822	0.007	0.020	0	6.21	0.051	5.30	1.81E-005
21	CT980813HOS001	Little Dog Spring	Spring	4.54	6.03	0.93	0.151	0.803	0	0.039	0.011	3.04	0	1.48	2.98E-005
22	CT980813HOS003	Wisemen Spring	Spring	4.36	3.73	0.31	0.063	0.799	0	0.005	0.006	2.46	0	0.96	8.19E-006
23	CT980813HOS002	Gaging Station Spring	Spring	3.34	3.95	0.36	0.179	0.460	0.059	0.012	0	1.38	0.111	0.84	6.36E-006
24	CT980813HOW001	Lower Moenkopi Well	Spring	3.20	2.26	0.38	0.100	0.572	0	0.016	0	2.52	0	1.01	7.36E-006
25	CT980813HOS004	Yellowjacket Spring	Spring	4.30	4.09	0.56	0.141	0.722	0.024	0.021	0	2.87	0.239	1.08	9.16E-006
26	CT990415TCW006	Tuba City Chapter House	Well	0.96	1.96	0.18	0.056	0.501	0	0	0.003	0.85	0.035	0.12	3.96E-006
27	CT980728CMW001	Tank 3T-541	Wind Mill	1.25	3.09	0.50	0.044	1.160	0.006	0.031	0	0.55	0.039	0.09	7.09E-006
28	CT980811TCS001	Lechee Spring	Spring	0	2.74	0.44	0.097	0.268	0.019	0.015	0	13.60	0.163	7.04	2.45E-005
29	CT980811TCS002	Shonto Well (3A-144)	Spring	30.50	18.80	10.20	1.020	1.120	0.880	0.766	0.298	2.13	0.069	0.83	2.37E-004
30	CT980812TCW004	Rabbit Brush Well	Well	1.00	2.78	0.46	0.106	0.631	0.032	0.005	0	0.88	0.061	0.29	5.41E-006
31	CT980812TCW003	Navajo John Well	Wind Mill	15.00	5.58	0.41	0.115	0.471	0	0.012	0.006	9.62	0.044	3.10	1.64E-005
32	CT980812TCW002	Tank-Middle Mesa (1T-518)	Wind Mill	2.20	2.46	0.53	0.107	0.475	0.014	0.013	0	1.21	0	0.21	4.64E-006
33	CT980812TCW005	Standing Rock Well	Wind Mill	1.62	39.30	0.25	0.227	1.490	0.018	0.005	0	0.04	0	0.11	9.53E-006
34	CT980804BGS001	Hidden Spring	Spring	6.52	2.40	0.22	0.039	0.190	0	0.021	0	4.60	0.023	2.91	9.56E-006
35	CT980804BGW001	Bodaway Gap Chapter House	Well	2.41	2.70	0.78	0.022	0.170	0.013	0.011	0	1.39	0	0.56	1.97E-005
36	CT980805BGW004	Tanner Wash Windmill	Wind Mill	10.40	13.30	0.43	0.134	0.237	0.005	0.011	0	7.80	0.293	5.51	1.72E-005
37	CT980805BGS002	Navajo Spring	Spring	3.73	4.77	1.04	0.108	0.444	0	0.015	0	1.66	0	0.37	2.72E-005
38	CT980805BGS003	Toh De Koinsh Spring	Spring	16.40	24.60	1.49	0.130	0.379	0.117	0.050	0	8.58	0.307	5.17	5.05E-005
39	CT000107CMW007	Tank 3T-547	Wind Mill	0.50	3.30	0	0.200	0	0.300	0.400	0.300	1.40	0	0.20	4.74E-006
40	CT000107CMW008	Tank 3A-149	Wind Mill	0	2.90	0	0	0	0.200	0.200	0.200	0.40	0.200	0.20	2.07E-006
41	CT000119CMS008	Gold Spring	Spring	2.10	10.50	0.20	0	0.500	0.300	0.500	0.200	1.70	0	1.80	8.66E-006
42	CT000119CMW010	3-T-504	Wind Mill	1.80	3.20	0.50	0.100	2.100	0.300	0.200	0.200	1.00	0	0.10	1.44E-005
43	CT000119CMW011	3-K-328	Wind Mill	1.40	8.40	3.40	0.600	0.700	0.300	0.300	0.300	1.80	0.400	1.60	1.35E-005
44	CT000120CMS008	Al Hasteen Nez Spring	Spring	1.30	40.60	1.70	0.100	1.600	0.300	0.300	0.300	0.60	0.200	0.30	1.21E-005
45	CT000120CMS009	Fivemile Wash Spring	Spring	16.70	45.70	0	0.200	3.600	0.400	1.300	0.400	17.70	0.400	10.30	5.43E-005

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Abandoned Uranium Mines Project
Navajo Lands

Cameron/Tuba City Area

Water Sample Analysis for Radioactive Metals

Map ID	Sample ID	Sample Name	Field Type	Alpha [2]	Beta [3]	Lead210 [4]	Radium226 [2]	Radium228 [2]	Thorium228 [2]	Thorium230 [2]	Thorium232 [2]	Uranium234 [2]	Uranium235 [2]	Uranium238 [2,6]	ILCRrad [1,5]
		Primary MCL's in pico Curies per Liter (pCi/L) [7]		15	50	NONE	5	5	NONE	NONE	NONE	20	20	20	
		PRG Limits in pico Curies per Liter (pCi/L) [8]		NONE	NONE	0.047	0.16	0.19	0.21	1.3	1.5	1.1	1.1	0.71	
46	CT000124CMS010	Toh Nee Di Kishi	Spring	4.90	5.40	2.90	0.100	0	0.300	0.300	0.300	7.90	0.400	4.90	1.69E-005
47	CT000125CMS011	Tohnalea	Spring	1.80	29.60	6.60	0.500	0.900	0.400	1.100	0.400	2.10	0	1.40	1.48E-005
48	CT000125CMS012	Harry Goldtooth Spring	Spring	11.30	23.40	0	0.200	0.700	0.200	0.200	0.200	10.30	0.200	8.30	2.74E-005
49	CT991130CAS003	Balokai Spring	Spring	8.10	0	0	0	0	0.200	0.200	0.200	8.60	0.400	6.50	1.86E-005
50	CT991130CAW007	Paddock Well	Well	22.00	13.10	0	0.100	0	0.200	0.200	0.200	26.20	1.500	18.70	5.34E-005
51	Shonto Well -DOE	Shonto Well - DOE	Well	8.56	6.89		0.140	0.820				1.30	0.040	1.30	

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Abandoned Uranium Mines Project
Navajo Lands

Cameron/Tuba City Area

Water Quality Analysis: Stable and Radioactive Metals
In Order of Map ID

Map ID	Sample ID	Field Type	Alpha [2]	Beta [2]	ILCR for Stable Metals [1]	ILCR for Rad Metals [1]		Total Cancer Risk	Hazard Index (HI)	Arsenic [3]	Lead [3]	Total U [2]		Water Quality with Respect to Stable and Radioactive Metals [4]			Risk Category	Risk Ranking [6]		Map ID	Bacteria Present [7]	Total Coliform Detected/ Fecal Coliform Not Detected [7]	Total Coliform & Fecal Coliform Detected [8]
														Less Risk	Some Risk	More Risk							
		MCL: [9]	15	50						50	15	30 [5]											
		PRG: [10]	NONE	NONE						0.045	4	NONE											
1	CT980724CAS001	Spring	10.40	7.33	8.22E-005	2.89E-005		1.11E-004	0.45	3.7	0	11.10			ILCR		SOME	32		1			
2	CT980729CMS004	Spring	21.50	9.85	1.14E-003	2.48E-005		1.16E-003	7.38	51.1	0	22.06				ILCR	MORE	44		2	No	No	No
3	CT980729CMS005	Spring	17.60	8.81	7.09E-004	2.71E-005		7.36E-004	6.01	31.9	0	23.33				ILCR	MORE	43		3	Yes	Yes	No
4	CT980729CMS003	Spring	45.50	36.90	1.22E-003	1.15E-004		1.33E-003	6.06	54.8	4.0	84.20				ILCR, Total U	MORE	47		4	No	No	No
5	CT980727CAS002	Spring	6.10	8.11	1.38E-004	3.74E-005		1.75E-004	2.18	6.2	4.4	8.05			ILCR, Lead, HI		SOME	38		5			
6	CT980729CMS002	Spring	11.00	12.80	0.00E+000	1.40E-005		1.40E-005	0.37	0	4.9	8.35			ILCR, Lead		SOME	33		6	No	No	No
7	CT980727CAW005	Well	0	0	1.47E-004	1.17E-004		2.63E-004	7.80	6.6	51.3	0.00				Lead	MORE	46		7			
8	CT980727CAW004	Wind Mill	0	3.71	0.00E+000	3.68E-005		3.68E-005	0.20	0	0	2.22			ILCR		SOME	11		8			
9	CT980722CAW001	Wind Mill	5.80	4.45	0.00E+000	5.56E-006		5.56E-006	0.06	0	0	2.64		X			LESS	5		9			
10	CT980724CAW003	Wind Mill	4.43	5.14	0.00E+000	6.81E-006		6.81E-006	0.09	0	0	3.25		X			LESS	6		10			
11	CT980722CAM002	Mine	135.00	125.00	6.62E-004	3.34E-004		9.96E-004	9.02	29.8	38.0	50.93				ILCR, Lead, Total	MORE	48		11			
12	CT980724CAW002	Well	1.78	6.11	7.33E-005	6.39E-006		7.97E-005	0.34	3.3	0	2.73			ILCR		SOME	16		12			
13	CT990415CAW006	Well	1.03	5.79	7.78E-005	5.00E-006		8.28E-005	0.46	3.5	1.1	1.87			ILCR		SOME	22		13			
14	CT980722CAM003	Mine	474.00	735.00	3.22E-003	1.19E-003		4.41E-003	47.03	145.0	343.0	57.08				ILCR, HI, Lead, To	MORE	50		14			
15	CT980728CMW005	Wind Mill	0.31	1.14	0.00E+000	1.71E-005		1.71E-005	0.09	0	0	0.00			ILCR		SOME	8		15			
16	CT980810CMW006	Wind Mill	0.44	2.86	0.00E+000	5.29E-006		5.29E-006	0.17	0	0	0.00		X			LESS	2		16	Yes	No	
17	CT980728CMW003	Wind Mill	0.65	5.95	0.00E+000	5.15E-006		5.15E-006	0.05	0	0	0.00		X			LESS	1		17	No	No	No
18	CT980728CMW004	Wind Mill	3.68	4.02	0.00E+000	7.66E-006		7.66E-006	1.36	0	0	2.45			HI		SOME	9		18			
19	CT980810CMS006	Spring	6.78	4.78	8.67E-005	4.21E-005		1.29E-004	0.67	3.9	0	2.74			ILCR		SOME	26		19	No	No	No
20	CT980811TCW001	Well	12.10	14.70	1.47E-004	1.81E-005		1.65E-004	2.02	6.6	0	11.51			ILCR, HI		SOME	35		20			
21	CT980813HOS001	Spring	4.54	6.03	6.22E-005	2.98E-005		9.21E-005	0.35	2.8	0	4.52			ILCR		SOME	25		21			
22	CT980813HOS003	Spring	4.36	3.73	0.00E+000	8.19E-006		8.19E-006	0.09	0	0	3.42		X			LESS	7		22			
23	CT980813HOS002	Spring	3.34	3.95	0.00E+000	6.36E-006		6.36E-006	0.08	0	0	2.22		X			LESS	4		23			
24	CT980813HOW001	Spring	3.20	2.26	8.44E-005	7.36E-006		9.18E-005	0.40	3.8	0	3.53			ILCR		SOME	20		24			
25	CT980813HOS004	Spring	4.30	4.09	7.56E-005	9.16E-006		8.47E-005	2.37	3.4	0	3.95			ILCR, HI		SOME	21		25			
26	CT990415TCW006	Well	0.96	1.96	5.78E-005	3.96E-006		6.17E-005	1.79	2.6	0	0.85			ILCR, HI		SOME	10		26			
27	CT980728CMW001	Wind Mill	1.25	3.09	1.62E-004	7.09E-006		1.69E-004	0.95	7.3	0	0.55			ILCR		SOME	24		27	No	No	No
28	CT980811TCS001	Spring	0	2.74	0.00E+000	2.45E-005		2.45E-005	1.35	0	0	20.64			ILCR, HI		SOME	37		28			
29	CT980811TCS002	Spring	30.50	18.80	6.84E-004	2.37E-004		9.22E-004	6.35	30.8	81.8	2.96				ILCR	MORE	49		29			
30	CT980812TCW004	Well	1.00	2.78	1.16E-004	5.41E-006		1.21E-004	0.62	5.2	0	1.17			ILCR		SOME	17		30			
31	CT980812TCW003	Wind Mill	15.00	5.58	6.00E-005	1.64E-005		7.64E-005	2.44	2.7	0	12.72			ILCR, HI		SOME	30		31			

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2. The PRG's and MCL's for Alpha, Beta, and Uranium are in Pico-Curies per Liter (pCi/L).
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4. Water Quality Levels:
   - Less 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 total U less than 30.
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   The three categories will be color coded on the associated map to be published with the final document.
5. Proposed EPA MCL is 30 pCi/L for the sum of three U isotopes.
6. The definitions of the risk categories and the ranking will be fully described and published in the final report.
7. No change in water quality assessment with respect to stable and radioactive metals results.
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   Boiling: Vigorous boiling for one minute will kill any disease-causing microorganisms present in water. The flat taste of boiled water can be improved by pouring it back and forth from one container to another (callled aeration), by allowing it to stand for a few hours, or by adding a small pinch of salt for each quart of water boiled.
   Chemical Treatment: When boiling is not practical, chemical disinfection should be used. The two chemicals commonly used are chlorine and iodine. Chlorine and iodine are somewhat effective in protecting against exposure to Giardia, but may not be effective in controlling Cryptosporidium.
   Therefore, use iodine or chlorine only to disinfect well water (as opposed to surface water sources such as rivers, lakes, and springs), because well water is unlikely to contain these disease causing organisms. Chlorine is generally more effective than iodine in controlling Giardia, and both disinfectants work much better in warmer water.
   Chlorine Bleach: Common household bleach contains a chlorine compound that will disinfect water. The procedure to be followed is usually written on the label. When the necessary procedure is not given, find the percentage of available chlorine on the label and use the information in the following tabulation as a guide.

Available Chlorine	1%	4-6%	7-10%
Drops per Quart of Clear Water	10	2	1

   (If strength is unknown, add ten drops per quart of water. Double amount of chlorine for cloudy or colored water.) The treated water should be mixed thoroughly and allowed to stand for 30 minutes. The water should have a slight chlorine odor, if not, repeat the dosage and allow the water to stand for an additional 15 minutes.
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9. MCL- Maximum Contaminant Levels are the maximum permissible level of a contaminant in water delivered to users of a public water system. This level is not always based on health or risk criteria.
10. PRG- Preliminary Remediation Goals are tools for evaluating and cleaning up contaminated sites. They are risk-based concentrations derived from standardized equations, combining exposure information assumptions and EPA toxicity data.

Abandoned Uranium Mines Project
Navajo Lands

Cameron/Tuba City Area

Water Quality Analysis: Stable and Radioactive Metals
In Order of Map ID

Map ID	Sample ID	Field Type	Alpha [2]	Beta [2]	ILCR for Stable Metals [1]	ILCR for Rad Metals [1]		Total Cancer Risk	Hazard Index (HI)	Arsenic [3]	Lead [3]	Total U [2]		Water Quality with Respect to Stable and Radioactive Metals [4]			Risk Category	Risk Ranking [6]		Map ID	Bacteria Present [7]	Total Coliform Detected/ Fecal Coliform Not Detected [7]	Total Coliform & Fecal Coliform Detected [8]
														Less Risk	Some Risk	More Risk							
		MCL: [9]	15	50						50	15	30 [5]											
		PRG: [10]	NONE	NONE						0.045	4	NONE											
32	CT980812TCW002	Wind Mill	2.20	2.46	6.00E-005	4.64E-006		6.46E-005	0.33	2.7	0	1.21			ILCR		SOME	12		32			
33	CT980812TCW005	Wind Mill	1.62	39.30	9.11E-005	9.53E-006		1.01E-004	0.61	4.1	2.6	0.00			ILCR		SOME	27		33			
34	CT980804BGS001	Spring	6.52	2.40	2.29E-004	9.56E-006		2.38E-004	4.65	10.3	0	7.51			ILCR, HI		SOME	34		34			
35	CT980804BGW001	Well	2.41	2.70	1.02E-004	1.97E-005		1.22E-004	1.64	4.6	0	1.95			ILCR, HI		SOME	19		35			
36	CT980805BGW004	Wind Mill	10.40	13.30	0.00E+000	1.72E-005		1.72E-005	0.16	0	0	13.60			ILCR		SOME	29		36			
37	CT980805BGS002	Spring	3.73	4.77	1.69E-004	2.72E-005		1.96E-004	0.83	7.6	0	2.03			ILCR		SOME	28		37			
38	CT980805BGS003	Spring	16.40	24.60	0.00E+000	5.05E-005		5.05E-005	1.48	0	0	14.06			ILCR, HI		SOME	31		38			
39	CT000107CMW007	Wind Mill	0.50	3.30	0.00E+000	4.74E-006		4.74E-006	0.00	0	0	1.60		X			LESS	3		39	No	No	No
40	CT000107CMW008	Wind Mill	0	2.90	2.67E-005	2.07E-006		2.87E-005	0.26	1.2	1.2	0.80			ILCR		SOME	13		40	Yes	Yes	No
41	CT000119CMS008	Spring	2.10	10.50	1.20E-005	8.66E-006		2.07E-005	0.30	0.5	2.1	3.50			ILCR		SOME	23		41	Yes	Yes	No
42	CT000119CMW010	Wind Mill	1.80	3.20	1.31E-005	1.44E-005		2.76E-005	0.27	0.6	1.3	1.10			ILCR		SOME	14		42	No	No	No
43	CT000119CMW011	Wind Mill	1.40	8.40	0.00E+000	1.35E-005		1.35E-005	0.07	0	0.7	3.80			ILCR		SOME	15		43	No	No	No
44	CT000120CMS008	Spring	1.30	40.60	2.89E-005	1.21E-005		4.09E-005	0.31	1.3	2.4	1.10			ILCR		SOME	18		44	Yes	Yes	No
45	CT000120CMS009	Spring	16.70	45.70	1.97E-004	5.43E-005		2.51E-004	1.07	8.9	0	28.40			ILCR, HI		SOME	42		45	Yes	Yes	Yes
46	CT000124CMS010	Spring	4.90	5.40	1.20E-004	1.69E-005		1.37E-004	0.58	5.4	0	13.20			ILCR		SOME	36		46	No	No	No
47	CT000125CMS011	Spring	1.80	29.60	1.88E-004	1.48E-005		2.03E-004	2.81	8.5	11.5	3.50			ILCR, Lead, HI		SOME	41		47	Yes	Yes	Yes
48	CT000125CMS012	Spring	11.30	23.40	1.52E-004	2.74E-005		1.79E-004	2.66	6.8	2.9	18.80			ILCR, HI		SOME	40		48	Yes	Yes	No
49	CT991130CAS003	Spring	8.10	0	2.01E-004	1.86E-005		2.19E-004	1.01	9.0	0	15.10			ILCR, HI		SOME	39		49	No	No	No
50	CT991130CAW007	Well	22.00	13.10	5.62E-004	5.34E-005		6.16E-004	3.09	25.3	1.7	46.40				ILCR, Total U	MORE	45		50	Yes	Yes	Yes

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Abandoned Uranium Mines Project
Navajo Lands

Cameron/Tuba City Area

Water Quality Analysis: Stable and Radioactive Metals
In Order of Risk Ranking

Map ID	Sample ID	Field Type	Alpha [2]	Beta [2]	ILCR for Stable Metals [1]	ILCR for Rad Metals [1]		Total Cancer Risk	Hazard Index (HI)	Arsenic [3]	Lead [3]	Total U [2]		Water Quality with Respect to Stable and Radioactive Metals [4]			Risk Category	Risk Ranking [6]		Map ID	Bacteria Present [7]	Total Coliform Detected/ Fecal Coliform Not Detected [7]	Total Coliform & Fecal Coliform Detected [8]
		MCL; [9] PRG: [10]	15 NONE	50 NONE						50 0.045	15 4	30 [5] NONE		Less Risk	Some Risk	More Risk							
17	CT980728CMW003	Wind Mill	0.65	5.95	0.00E+000	5.15E-006		5.15E-006	0.05	0	0	0.00		X			LESS	1		17	No	No	No
16	CT980810CMW006	Wind Mill	0.44	2.86	0.00E+000	5.29E-006		5.29E-006	0.17	0	0	0.00		X			LESS	2		16	Yes	No	
39	CT000107CMW007	Wind Mill	0.50	3.30	0.00E+000	4.74E-006		4.74E-006	0.00	0	0	1.60		X			LESS	3		39	No	No	No
23	CT980813HOS002	Spring	3.34	3.95	0.00E+000	6.36E-006		6.36E-006	0.08	0	0	2.22		X			LESS	4		23			
9	CT980722CAW001	Wind Mill	5.80	4.45	0.00E+000	5.56E-006		5.56E-006	0.06	0	0	2.64		X			LESS	5		9			
10	CT980724CAW003	Wind Mill	4.43	5.14	0.00E+000	6.81E-006		6.81E-006	0.09	0	0	3.25		X			LESS	6		10			
22	CT980813HOS003	Spring	4.36	3.73	0.00E+000	8.19E-006		8.19E-006	0.09	0	0	3.42		X			LESS	7		22			
15	CT980728CMW005	Wind Mill	0.31	1.14	0.00E+000	1.71E-005		1.71E-005	0.09	0	0	0.00			ILCR		SOME	8		15			
18	CT980728CMW004	Wind Mill	3.68	4.02	0.00E+000	7.66E-006		7.66E-006	1.36	0	0	2.45			HI		SOME	9		18			
26	CT990415TCW006	Well	0.96	1.96	5.78E-005	3.96E-006		6.17E-005	1.79	2.6	0	0.85			ILCR, HI		SOME	10		26			
8	CT980727CAW004	Wind Mill	0	3.71	0.00E+000	3.68E-005		3.68E-005	0.20	0	0	2.22			ILCR		SOME	11		8			
32	CT980812TCW002	Wind Mill	2.20	2.46	6.00E-005	4.64E-006		6.46E-005	0.33	2.7	0	1.21			ILCR		SOME	12		32			
40	CT000107CMW008	Wind Mill	0	2.90	2.67E-005	2.07E-006		2.87E-005	0.26	1.2	1.2	0.80			ILCR		SOME	13		40	Yes	Yes	No
42	CT000119CMW010	Wind Mill	1.80	3.20	1.31E-005	1.44E-005		2.76E-005	0.27	0.6	1.3	1.10			ILCR		SOME	14		42	No	No	No
43	CT000119CMW011	Wind Mill	1.40	8.40	0.00E+000	1.35E-005		1.35E-005	0.07	0	0.7	3.80			ILCR		SOME	15		43	No	No	No
12	CT980724CAW002	Well	1.78	6.11	7.33E-005	6.39E-006		7.97E-005	0.34	3.3	0	2.73			ILCR		SOME	16		12			
30	CT980812TCW004	Well	1.00	2.78	1.16E-004	5.41E-006		1.21E-004	0.62	5.2	0	1.17			ILCR		SOME	17		30			
44	CT000120CMS008	Spring	1.30	40.60	2.89E-005	1.21E-005		4.09E-005	0.31	1.3	2.4	1.10			ILCR		SOME	18		44	Yes	Yes	No
35	CT980804BGW001	Well	2.41	2.70	1.02E-004	1.97E-005		1.22E-004	1.64	4.6	0	1.95			ILCR, HI		SOME	19		35			
24	CT980813HOW001	Spring	3.20	2.26	8.44E-005	7.36E-006		9.18E-005	0.40	3.8	0	3.53			ILCR		SOME	20		24			
25	CT980813HOS004	Spring	4.30	4.09	7.56E-005	9.16E-006		8.47E-005	2.37	3.4	0	3.95			ILCR, HI		SOME	21		25			
13	CT990415CAW006	Well	1.03	5.79	7.78E-005	5.00E-006		8.28E-005	0.46	3.5	1.1	1.87			ILCR		SOME	22		13			
41	CT000119CMS008	Spring	2.10	10.50	1.20E-005	8.66E-006		2.07E-005	0.30	0.5	2.1	3.50			ILCR		SOME	23		41	Yes	Yes	No
27	CT980728CMW001	Wind Mill	1.25	3.09	1.62E-004	7.09E-006		1.69E-004	0.95	7.3	0	0.55			ILCR		SOME	24		27	No	No	No
21	CT980813HOS001	Spring	4.54	6.03	6.22E-005	2.98E-005		9.21E-005	0.35	2.8	0	4.52			ILCR		SOME	25		21			
19	CT980810CMS006	Spring	6.78	4.78	8.67E-005	4.21E-005		1.29E-004	0.67	3.9	0	2.74			ILCR		SOME	26		19	No	No	No
33	CT980812TCW005	Wind Mill	1.62	39.30	9.11E-005	9.53E-006		1.01E-004	0.61	4.1	2.6	0.00			ILCR		SOME	27		33			
37	CT980805BGS002	Spring	3.73	4.77	1.69E-004	2.72E-005		1.96E-004	0.83	7.6	0	2.03			ILCR		SOME	28		37			
36	CT980805BGW004	Wind Mill	10.40	13.30	0.00E+000	1.72E-005		1.72E-005	0.16	0	0	13.60			ILCR		SOME	29		36			
31	CT980812TCW003	Wind Mill	15.00	5.58	6.00E-005	1.64E-005		7.64E-005	2.44	2.7	0	12.72			ILCR, HI		SOME	30		31			
38	CT980805BGS003	Spring	16.40	24.60	0.00E+000	5.05E-005		5.05E-005	1.48	0	0	14.06			ILCR, HI		SOME	31		38			
1	CT980724CAS001	Spring	10.40	7.33	8.22E-005	2.89E-005		1.11E-004	0.45	3.7	0	11.10			ILCR		SOME	32		1			

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   (If strength is unknown, add ten drops per quart of water. Double amount of chlorine for cloudy or colored water.) The treated water should be mixed thoroughly and allowed to stand for 30 minutes. The water should have a slight chlorine odor, if not, repeat the dosage and allow the water to stand for an additional 15 minutes.
   If the treated water has too strong a chlorine taste, it can be made more pleasing by allowing the water to stand exposed to the air for a few hours or by pouring it from one clean container to another several times.
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Abandoned Uranium Mines Project
Navajo Lands

Cameron/Tuba City Area

Water Quality Analysis: Stable and Radioactive Metals
In Order of Risk Ranking

Map ID	Sample ID	Field Type	Alpha [2]	Beta [2]	ILCR for Stable Metals [1]	ILCR for Rad Metals [1]		Total Cancer Risk	Hazard Index (HI)	Arsenic [3]	Lead [3]	Total U [2]		Water Quality with Respect to Stable and Radioactive Metals [4]			Risk Category	Risk Ranking [6]		Map ID	Bacteria Present [7]	Total Coliform Detected/ Fecal Coliform Not Detected [7]	Total Coliform & Fecal Coliform Detected [8]
		MCL; [9] PRG: [10]	15 NONE	50 NONE						50 0.045	15 4	30 [5] NONE		Less Risk	Some Risk	More Risk							
6	CT980729CMS002	Spring	11.00	12.80	0.00E+000	1.40E-005		1.40E-005	0.37	0	4.9	8.35			ILCR, Lead		SOME	33		6	No	No	No
34	CT980804BGS001	Spring	6.52	2.40	2.29E-004	9.56E-006		2.38E-004	4.65	10.3	0	7.51			ILCR, HI		SOME	34		34			
20	CT980811TCW001	Well	12.10	14.70	1.47E-004	1.81E-005		1.65E-004	2.02	6.6	0	11.51			ILCR, HI		SOME	35		20			
46	CT000124CMS010	Spring	4.90	5.40	1.20E-004	1.69E-005		1.37E-004	0.58	5.4	0	13.20			ILCR		SOME	36		46	No	No	No
28	CT980811TCS001	Spring	0	2.74	0.00E+000	2.45E-005		2.45E-005	1.35	0	0	20.64			ILCR, HI		SOME	37		28			
5	CT980727CAS002	Spring	6.10	8.11	1.38E-004	3.74E-005		1.75E-004	2.18	6.2	4.4	8.05			ILCR, Lead, HI		SOME	38		5			
49	CT991130CAS003	Spring	8.10	0	2.01E-004	1.86E-005		2.19E-004	1.01	9.0	0	15.10			ILCR, HI		SOME	39		49	No	No	No
48	CT000125CMS012	Spring	11.30	23.40	1.52E-004	2.74E-005		1.79E-004	2.66	6.8	2.9	18.80			ILCR, HI		SOME	40		48	Yes	Yes	No
47	CT000125CMS011	Spring	1.80	29.60	1.88E-004	1.48E-005		2.03E-004	2.81	8.5	11.5	3.50			ILCR, Lead, HI		SOME	41		47	Yes	Yes	Yes
45	CT000120CMS009	Spring	16.70	45.70	1.97E-004	5.43E-005		2.51E-004	1.07	8.9	0	28.40			ILCR, HI		SOME	42		45	Yes	Yes	Yes
3	CT980729CMS005	Spring	17.60	8.81	7.09E-004	2.71E-005		7.36E-004	6.01	31.9	0	23.33				ILCR	MORE	43		3	Yes	Yes	No
2	CT980729CMS004	Spring	21.50	9.85	1.14E-003	2.48E-005		1.16E-003	7.38	51.1	0	22.06				ILCR	MORE	44		2	No	No	No
50	CT991130CAW007	Well	22.00	13.10	5.62E-004	5.34E-005		6.16E-004	3.09	25.3	1.7	46.40				ILCR, Total U	MORE	45		50	Yes	Yes	Yes
7	CT980727CAW005	Well	0	0	1.47E-004	1.17E-004		2.63E-004	7.80	6.6	51.3	0.00				Lead	MORE	46		7			
4	CT980729CMS003	Spring	45.50	36.90	1.22E-003	1.15E-004		1.33E-003	6.06	54.8	4.0	84.20				ILCR, Total U	MORE	47		4	No	No	No
11	CT980722CAM002	Mine	135.00	125.00	6.62E-004	3.34E-004		9.96E-004	9.02	29.8	38.0	50.93				ILCR, Lead, Total	MORE	48		11			
29	CT980811TCS002	Spring	30.50	18.80	6.84E-004	2.37E-004		9.22E-004	6.35	30.8	81.8	2.96				ILCR	MORE	49		29			
14	CT980722CAM003	Mine	474.00	735.00	3.22E-003	1.19E-003		4.41E-003	47.03	145.0	343.0	57.08				ILCR, HI, Lead, To	MORE	50		14			

1. ILCR = Incremental Lifetime Cancer Risk with Respect to Stable Metals and Radioactive Metals.
2. The PRG's and MCL's for Alpha, Beta, and Uranium are in Pico-Curies per Liter (pCi/L).
3. The PRG's and MCL's for Lead and Arsenic are in Micrograms per Liter (ug/L).
4. Water Quality Levels:
   - Less 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 total U less than 30.
   - Some Risk: Total Cancer Risk is less than or equal to 6E-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 6E-04 or Hazard Index is greater than 10 or Lead is greater than 15 or total U equal to or greater than 30.
   - The three categories will be color coded on the associated map to be published with the final document.
5. Proposed EPA MCL is 30 pCi/L for the sum of three U isotopes.
6. The definitions of the risk categories and the ranking will be fully described and published in the final report.
7. No change in water quality assessment with respect to stable and radioactive metals results.
8. In accordance with USEPA emergency response procedures for purifying bacteria - impacted water, please use the following methods of emergency disinfection These methods will not remove stable metals or radionuclides from water.
   Boiling: Vigorous boiling for one minute will kill any disease-causing microorganisms present in water. The flat taste of boiled water can be improved by pouring it back and forth from one container to another (callled aeration), by allowing it to stand for a few hours, or by adding a small pinch of salt for each quart of water boiled.
   Chemical Treatment: When boiling is not practical, chemical disinfection should be used. The two chemicals commonly used are chlorine and iodine. Chlorine and iodine are somewhat effective in protecting against exposure to Giardia, but may not be effective in controlling Cryptosporidium.
   Therefore, use iodine or chlorine only to disinfect well water (as opposed to surface water sources such as rivers, lakes, and springs), because well water is unlikely to contain these disease causing organisms. Chlorine is generally more effective than iodine in controlling Giardia, and both disinfectants work much better in warmer water.
   Chlorine Bleach: Common household bleach contains a chlorine compound that will disinfect water. The procedure to be followed is usually written on the label. When the necessary procedure is not given, find the percentage of available chlorine on the label and use the information in the following tabulation as a guide.

Available Chlorine	1%	4-6%	7-10%
Drops per Quart of Clear Water	10	2	1

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