

TABLE C.1

Zone 1 Data Summary, 1989-2012

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation ft amsl	Field pH SU	Lab pH SU	Lab TDS mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	SO4 mg/l	Cl mg/l	NH4 as N mg/l	NO3 as N mg/l	TTHMs (Chloroform) ug/l	Al mg/l	As mg/l
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05
0614	N	1/15/1991	6,926.40	6.40	6.96	6633	647	623	478	9.6	1412	3253	322	68	125	170	0.2	< 0.001
0614	N	4/2/1991	6,926.20	6.40	7.18	6539	619	495	420	10.1	1257	3165	322	78.3	131	254	0.11	< 0.001
0614	N	7/17/1991	6,925.90	6.40	7.49	6970	573	551	443	9.7	1680	3645	327	69.4	169	380	< 0.1	< 0.001
0614	N	9/4/1991	no data	no data	6.94	7610	624	634	446	10.3	1629	4105	303	116	83.2	486	0.22	< 0.001
0614	N	10/15/1991	6,925.30	6.30	7.15	7145	664	526	418	10	1515	3239	313	53.8	119	361	< 0.1	0.001
0614	N	11/4/1991	no data	no data	6.97	7026	614	490	436	10.5	1516	3449	308	87.3	97.6	464	0.32	< 0.001
0614	N	12/2/1991	no data	no data	7.38	7264	610	559	425	10.7	1577	3197	287	79.5	133	400	0.42	< 0.001
0614	N	1/15/1992	6,925.20	6.30	7.34	7026	584	645	449	10.1	1268	3376	287	94.9	123	525	< 0.1	< 0.001
0614	N	4/8/1992	6,925.10	6.30	7.48	7207	691	601	486	10.8	1568	3603	279	101	70.2	471	< 0.1	0.003
0614	N	7/8/1992	6,924.80	6.20	7.51	6583	697	496	640	11.3	1512	3249	274	79.8	116	303	< 0.1	0.001
0614	N	10/7/1992	6,924.70	6.40	8.08	6914	661	577	566	12.9	803	3248	273	48.6	15.8	426	0.1	< 0.001
0614	N	1/6/1993	6,924.50	6.40	7.04	6464	626	563	487	10.8	1459	3008	270	86.1	117	527	< 0.1	< 0.001
0614	N	4/6/1993	6,924.40	6.50	7.26	7340	616	607	521	10.1	1620	3518	288	97.4	47.5	400	< 0.1	< 0.001
0614	N	7/13/1993	6,923.90	6.50	7.11	7485	651	607	506	10.7	1454	3370	262	103	146	553	< 0.1	< 0.001
0614	N	10/6/1993	6,923.60	6.70	6.95	7439	642	660	476	10.8	1431	3505	244	105	166	667	< 0.1	< 0.001
0614	N	1/6/1994	6,923.40	6.70	7.14	7380	594	565	485	10	1221	3435	242	91.4	192	617	< 0.1	< 0.001
0614	N	4/12/1994	6,923.10	6.60	6.96	7496	576	650	446	11.5	1174	3743	242	142	170	866	< 0.1	< 0.001
0614	N	7/20/1994	6,922.70	6.50	7.28	7490	641	748	425	13.5	1322	4076	231	140	140	799	< 0.1	< 0.001
0614	N	10/4/1994	6,922.60	6.60	7.54	7700	642	750	519	14.4	1465	4430	246	170	149	829	< 0.1	< 0.001
0614	N	1/4/1995	6,922.30	6.50	7.38	7528	606	636	446	15.2	1330	4176	237	213	155	520	< 0.1	< 0.001
0614	N	4/4/1995	6,922.00	6.50	6.90	7731	604	654	451	15	1370	4048	277	183	171	756	< 0.1	< 0.001
0614	N	7/6/1995	6,922.40	6.50	7.93	7816	565	685	440	15.4	1331	4000	241	227	154	585	< 0.1	< 0.001
0614	N	10/3/1995	6,921.30	6.50	7.71	7857	560	690	445	16	1357	4040	205	222	179	638	< 0.1	0.003
0614	N	1/3/1996	6,921.10	6.60	7.20	7886	543	750	470	17.7	1352	4260	204	234	179	583	< 0.1	0.002
0614	N	4/2/1996	6,920.60	6.50	7.92	7896	605	852	442	17.2	1286	4780	221	262	182	624	< 0.1	0.003
0614	N	7/7/1996	6,920.30	6.30	6.99	8045	537	750	432	18.5	1313	4210	238	243	181	587	< 0.1	< 0.001
0614	N	10/1/1996	6,919.70	6.50	6.89	8120	574	805	436	18.4	1320	4394	223	288	189	598	0.6	< 0.001
0614	N	1/21/1997	6,919.80	6.00	7.01	7850	555	800	437	18.8	1272	4355	201	290	188	635	< 0.1	< 0.001
0614	N	4/8/1997	6,919.00	6.60	7.79	7970	531	760	428	18.7	1280	4360	218	271	226	482	< 0.1	< 0.001
0614	N	7/8/1997	6,918.60	6.80	7.81	8100	594	841	449	18.6	1290	4520	233	264	223	444	< 0.1	< 0.001
0614	N	10/7/1997	6,918.30	6.40	7.62	7930	602	816	420	16.9	1320	4170	252	253	200	461	< 0.1	< 0.001
0614	N	1/15/1998	6,917.80	6.90	8.01	7980	558	775	446	17	1330	4200	267	225	214	289	< 0.1	< 0.001
0614	N	4/7/1998	6,917.70	6.80	7.72	7930	516	739	447	14	1440	3740	218	170	162	377	< 0.1	< 0.001
0614	N	7/7/1998	6,917.10	6.80	7.96	7990	579	823	466	14	1490	3800	261	171	202	392	< 0.1	< 0.001
0614	N	10/6/1998	6,916.90	7.16	7.87	7730	563	822	496	12.2	1380	4050	261	100	115	176	< 0.1	< 0.001
0614	N	1/5/1999	6,916.20	6.90	7.86	7900	551	786	434	9.9	1520	4000	262	81.2	85.5	255	< 0.1	< 0.001

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United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
NRC Standard			0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	9.4	5	1	15
EPA Standard			0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15
0614	N	1/15/1991	< 0.01	< 0.01	< 0.01	< 0.05	0.09	< 0.1	< 0.05	0.001	< 0.1	0.0425	1.9	< 1	1.9	< 0.2	1.3	2.3
0614	N	4/2/1991	< 0.01	< 0.01	< 0.02	< 0.05	0.08	< 0.1	< 0.05	< 0.002	< 0.1	0.0589	2.7	1.8	4.5	2.2	1.3	3
0614	N	7/17/1991	< 0.01	< 0.01	< 0.01	< 0.05	0.1	< 0.1	< 0.05	0.002	< 0.1	0.064	0.5	< 1	0.5	< 0.2	< 1	< 1
0614	N	9/4/1991	< 0.01	< 0.01	0.03	< 0.05	0.17	< 0.1	< 0.05	0.002	< 0.1	0.0631	0.5	5.4	5.9	< 0.2	< 1	< 1
0614	N	10/15/1991	< 0.01	< 0.01	< 0.01	< 0.05	0.11	< 0.1	< 0.05	0.003	< 0.1	0.076	0.6	5.5	6.1	< 0.2	< 1	< 1
0614	N	11/4/1991	< 0.01	< 0.01	0.04	< 0.05	0.18	< 0.1	< 0.1	0.002	< 0.1	0.0472	0.9	3.7	4.6	< 0.2	< 1	< 1
0614	N	12/2/1991	< 0.01	< 0.01	0.02	< 0.05	0.15	< 0.1	0.06	0.002	< 0.1	0.05	1.2	1.3	2.5	< 0.2	< 1	1
0614	N	1/15/1992	< 0.01	< 0.01	< 0.01	< 0.05	0.12	< 0.1	< 0.05	0.059	< 0.1	0.039	0.4	< 1	0.4	< 0.2	< 1	< 1
0614	N	4/8/1992	< 0.01	< 0.01	< 0.01	< 0.05	0.14	< 0.1	< 0.05	0.004	< 0.1	0.051	0.8	4	4.8	< 0.2	< 1	< 1
0614	N	7/8/1992	< 0.01	< 0.01	< 0.01	< 0.05	0.17	< 0.1	< 0.05	0.003	< 0.1	0.05	1	3.4	4.4	< 0.2	< 1	1.1
0614	N	10/7/1992	< 0.01	< 0.01	< 0.01	< 0.05	0.15	< 0.1	< 0.05	0.005	< 0.1	0.078	1.5	4.1	5.6	< 0.2	1.9	1.8
0614	N	1/6/1993	< 0.01	< 0.01	< 0.01	< 0.05	0.19	< 0.1	< 0.05	0.012	< 0.1	0.082	3.7	1.4	5.1	< 0.2	< 1	3.9
0614	N	4/6/1993	< 0.01	< 0.01	< 0.01	< 0.05	0.24	< 0.1	< 0.05	0.003	< 0.1	0.072	1.9	5.1	7	< 0.2	< 1	2.1
0614	N	7/13/1993	< 0.01	< 0.01	< 0.01	< 0.05	0.16	< 0.1	< 0.05	0.008	< 0.1	0.066	1.6	3.2	4.8	< 0.2	2.3	1.9
0614	N	10/6/1993	< 0.01	< 0.01	0.02	< 0.05	0.17	< 0.1	< 0.05	0.002	< 0.1	0.037	2.8	< 1	2.8	< 0.2	1.8	2.9
0614	N	1/6/1994	< 0.01	< 0.01	< 0.01	< 0.05	0.17	< 0.1	< 0.05	< 0.001	< 0.1	0.048	1.6	< 1	1.6	< 0.2	< 1	2.6
0614	N	4/12/1994	< 0.01	< 0.01	< 0.01	< 0.05	0.21	< 0.1	< 0.05	0.004	< 0.1	0.052	1.5	< 1	1.5	< 0.2	5.2	1.7
0614	N	7/20/1994	< 0.01	< 0.01	< 0.01	< 0.05	0.24	< 0.1	< 0.05	0.001	< 0.1	0.054	2.8	1.9	4.7	< 0.2	< 1	3.8
0614	N	10/4/1994	< 0.01	< 0.01	< 0.01	< 0.05	0.41	< 0.1	< 0.05	< 0.001	< 0.1	0.059	1.2	1.8	3	< 0.2	< 1	4.1
0614	N	1/4/1995	< 0.01	< 0.01	< 0.01	< 0.05	0.23	< 0.1	< 0.05	< 0.001	< 0.1	0.04	1.8	2.4	4.2	< 0.2	< 1	5.6
0614	N	4/4/1995	< 0.01	< 0.01	< 0.01	< 0.05	0.33	< 0.1	< 0.05	0.001	< 0.1	0.044	1.2	2.9	4.1	< 0.2	< 1	5.7
0614	N	7/6/1995	< 0.01	< 0.01	< 0.01	< 0.05	0.3	< 0.1	< 0.05	0.003	< 0.1	0.052	7.2	8.4	15.6	0.5	< 1	22.8
0614	N	10/3/1995	< 0.01	< 0.01	< 0.01	< 0.05	0.31	< 0.1	< 0.05	< 0.001	< 0.1	0.045	0.9	1.1	2	< 0.2	1.7	6.2
0614	N	1/3/1996	< 0.01	< 0.01	< 0.01	< 0.05	0.35	< 0.1	< 0.05	< 0.001	< 0.1	0.047	6	1.2	7.2	0.7	1.5	12
0614	N	4/2/1996	< 0.01	< 0.01	< 0.01	< 0.05	0.32	< 0.1	< 0.05	< 0.001	< 0.1	0.05	1.2	3.4	4.6	< 0.2	< 1	3.5
0614	N	7/7/1996	< 0.01	< 0.01	< 0.01	< 0.05	0.37	< 0.1	< 0.05	< 0.001	< 0.1	0.053	4.9	< 1	4.9	< 0.2	< 1	5.3
0614	N	10/1/1996	< 0.01	< 0.01	< 0.01	< 0.05	0.41	< 0.1	< 0.05	0.002	< 0.1	0.044	1.6	< 1	1.6	< 0.2	< 1	2.1
0614	N	1/21/1997	< 0.01	< 0.01	< 0.01	< 0.05	0.41	< 0.1	< 0.05	< 0.001	< 0.1	0.038	1.1	3.6	4.7	< 0.2	< 1	< 1
0614	N	4/8/1997	< 0.01	< 0.01	< 0.01	< 0.05	0.39	< 0.1	< 0.05	0.074	< 0.1	0.049	8.2	3.2	11.4	< 0.2	< 1	20.4
0614	N	7/8/1997	< 0.01	< 0.01	< 0.01	< 0.05	0.42	< 0.1	< 0.05	< 0.001	< 0.1	0.043	1.5	< 1	1.5	< 0.2	< 1	< 1
0614	N	10/7/1997	< 0.01	< 0.01	< 0.01	< 0.05	0.47	< 0.1	< 0.05	< 0.001	< 0.1	0.051	4.3	3.8	8.1	< 0.2	< 1	7.8
0614	N	1/15/1998	< 0.01	< 0.005	< 0.01	< 0.05	0.44	< 0.1	< 0.05	< 0.001	< 0.1	0.059	1.4	< 1	1.4	< 0.2	< 1	< 1
0614	N	4/7/1998	< 0.01	< 0.005	< 0.01	< 0.05	0.32	< 0.1	< 0.05	< 0.001	< 0.1	0.06	2.2	< 1	2.2	< 0.2	< 1	< 1
0614	N	7/7/1998	< 0.01	< 0.005	< 0.01	< 0.05	0.34	< 0.1	< 0.05	< 0.001	< 0.1	0.0631	2.3	< 1	2.3	< 0.2	< 1	2.3
0614	N	10/6/1998	< 0.01	< 0.005	< 0.01	< 0.05	0.26	< 0.1	< 0.05	< 0.001	< 0.1	0.0732	0.6	< 1	0.6	< 0.2	< 1	< 1
0614	N	1/5/1999	< 0.01	< 0.005	< 0.01	< 0.05	0.23	< 0.1	< 0.05	< 0.001	< 0.1	0.0682	0.9	2.2	3.1	< 0.2	< 1	< 1

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United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation ft amsl	Field pH SU	Lab pH SU	Lab TDS mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	SO4 mg/l	Cl mg/l	NH4 as N mg/l	NO3 as N mg/l	TTHMs (Chloroform) ug/l	Al mg/l	As mg/l
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05
0614	N	4/6/1999	6,916.20	6.70	7.90	7910	552	844	436	10.2	1590	3780	261	71.5	81.3	258	< 0.1	< 0.001
0614	N	7/13/1999	6,915.51	7.00	7.73	7680	605	891	439	12.7	1280	4000	239	58.1	90.7	188	< 0.1	< 0.001
0614	N	10/5/1999	6,915.30	6.80	7.84	7710	632	961	430	10.8	1362	4410	248	58	83	278	< 0.1	< 0.001
0614	N	1/4/2000	6,915.10	6.80	8.07	7650	510	770	358	11.5	1470	3430	217	65.1	97.4	226	< 0.1	< 0.001
0614	N	5/2/2000	6,914.60	6.50	7.56	7600	514	784	405	15.7	1450	3620	236	87	114	383	< 0.1	< 0.001
0614	N	7/11/2000	6,914.40	6.53	7.53	7600	560	830	426	13.8	1430	3760	229	93.1	109	215	< 0.1	< 0.001
0614	N	10/3/2000	6,914.15	6.55	7.04	7420	548	849	421	17.9	1420	4250	241	98.4	104	174	< 0.1	0.001
0614	N	1/10/2001	6,914.00	7.10	7.38	7380	531	762	349	14.7	1440	3720	268	107	93.3	199	< 0.1	< 0.001
0614	N	4/2/2001	6,913.70	6.64	7.28	7350	615	855	354	14.3	1420	3880	248	118	101	258	< 0.1	< 0.001
0614	N	7/16/2001	6,913.35	6.73	7.02	7330	507	722	415	17.3	1430	3300	320	116	96.9	260	< 0.1	< 0.001
0614	N	10/2/2001	6,913.20	6.61	7.50	7270	520	720	330	16.2	1500	3300	357	118	93.5	183	< 0.1	< 0.001
0614	N	1/14/2002	6,913.00	6.64	7.30	7110	602	751	356	16.7	1490	3460	332	123	86.7	230	< 0.1	< 0.001
0614	N	4/2/2002	6,912.90	6.56	7.60	7120	603	730	427	16.8	1460	3780	312	119	82.7	222	< 0.1	< 0.001
0614	N	7/10/2002	6,912.40	6.45	7.31	6980	577	599	413	14	1430	3360	286	100	82	222	< 0.1	< 0.001
0614	N	10/9/2002	6,912.30	6.05	7.66	5220	520	621	400	12.4	1440	3080	286	87	79.2	228	< 0.1	< 0.001
0614	N	1/8/2003	6,912.06	7.23	7.60	6680	519	598	465	12.1	1470	3020	247	81	74	222	< 0.1	< 0.001
0614	N	4/9/2003	6,911.76	6.44	7.13	6840	559	640	434	16.5	1450	2918	334	76	72	248	< 0.1	< 0.001
0614	N	7/9/2003	6,911.61	6.29	7.38	6430	559	609	467	12	1430	3060	314	58	73	285	< 0.1	< 0.001
0614	N	10/8/2003	6,911.63	6.28	7.32	6670	579	576	460	9.8	1330	3060	312	50	71	192	< 0.1	< 0.001
0614	N	1/7/2004	6,911.41	6.40	6.97	6500	620	655	458	10.8	1390	3160	369	53 D	71.7 D	142 D	0.3	< 0.001
0614	N	4/7/2004	6,911.37	6.55	6.72	6590	597	635	450	10.6	1390	3020 D	347	47 D	72.8 D	140 D	< 0.1	< 0.001
0614	N	7/14/2004	6,911.01	6.28	6.49	6960	591	630	456	10.3	1430	3130 D	346	40 D	70.4 D	128 D	< 0.1	< 0.001
0614	N	10/6/2004	6,911.04	6.32	7.03	6850	600 D	665 D	481	9.9	1450	3230 D	343	45 D	76.5 D	165 D	< 0.1	< 0.001
0614	N	1/5/2005	6,911.01	6.48	6.87	6860	609 D	667 D	494 D	10	1240	3260 D	356	42 D	69 D	27.9 D	< 0.1	< 0.001
0614	N	4/6/2005	6,910.60	6.57	7.23	6500	592	637	478	9.8	1400	3120	346	37	63	157	< 0.1	< 0.001
0614	N	7/13/2005	6,910.51	6.47	7.28	6570	615 D	647 D	437	9.2	1360	3150 D	360	44 D	56 D	178 D	< 0.1	< 0.001
0614	N	10/5/2005	6,910.58	6.48	7.05	6550	584 D	659 D	460	10.5	1440	2910 D	324	50 D	61 D	202 D	< 0.1	0.001
0614	N	1/11/2006	6,910.48	6.58	7.30	6460	550 D	604 D	401	9.8	1370	3090 D	315	58 D	74 D	84.0 D	< 0.1	< 0.001
0614	N	4/4/2006	6,910.28	6.45	7.36	6450	602 D	639 D	417	10.2	1460	2950 D	376 D	139 D	77 D	108 D	< 0.1	< 0.001
0614	N	7/19/2006	6,910.01	6.45	6.83	6240	618	610 D	467	10.3	1350	3040 D	350	46 D	69 D	62.8 D	< 0.1	< 0.001
0614	N	10/4/2006	6,909.93	6.41	6.86	6360	577 D	592 D	439	10.5	1240	2850 D	332	55 D	73 D	125 D	0.1	< 0.001
0614	N	1/10/2007	6,909.94	6.49	6.89	6510	559 D	589 D	432	11.2	1340	3040 D	366	50 D	71 D	114	0.1	< 0.001
0614	N	4/11/2007	6,909.94	6.59	6.19	6480	580 D	615 D	424	11.1	1340	3060 D	348	57 D	80 D	113	< 0.1	< 0.001
0614	N	7/11/2007	6,909.56	6.43	6.98	6280	605 D	626 D	436	10.6	1450	3150 D	310	52 D	82 D	83.2	< 0.1	0.005
0614	N	10/3/2007	6,909.49	6.43	6.87	6490	540 D	582 D	455 D	11.9	1520	2910 D	378 D	72.3 D	78 D	182	< 0.1	< 0.001
0614	N	1/16/2008	6,909.66	6.61	6.54	6220	584 D	622 D	492 D	12.2	1440	3010 D	354 D	67 D	87 D	137	< 0.1	< 0.001

TABLE C.1
Zone 1 Data Summary, 1989-2012
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l
NRC Standard			0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	9.4	5	1	15
EPA Standard			0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15
0614	N	4/6/1999	< 0.01	< 0.005	< 0.01	< 0.05	0.26	< 0.1	< 0.05	0.001	< 0.1	0.0641	2.9	3.6	6.5	< 0.2	3.3	3.3
0614	N	7/13/1999	< 0.01	< 0.005	< 0.01	< 0.05	0.23	< 0.1	< 0.05	0.001	< 0.1	0.0672	0.9	1.2	2.1	< 0.2	< 1	< 1
0614	N	10/5/1999	< 0.01	< 0.005	< 0.01	< 0.05	0.25	< 0.1	< 0.05	< 0.001	< 0.1	0.001	4.8	< 1	4.8	< 0.2	< 1	6.8
0614	N	1/4/2000	< 0.01	< 0.005	< 0.01	< 0.05	0.24	< 0.1	< 0.05	0.001	< 0.1	0.0579	3.8	1.1	4.9	< 0.2	< 1	4.3
0614	N	5/2/2000	< 0.01	< 0.005	< 0.01	< 0.05	0.34	< 0.1	< 0.05	< 0.001	< 0.1	0.0678	1.1	5.7	6.8	< 0.2	< 1	7
0614	N	7/11/2000	< 0.01	< 0.005	< 0.01	< 0.05	0.22	< 0.1	< 0.05	< 0.001	< 0.1	0.0542	0.6	3.5	4.1	< 0.2	< 1	< 1
0614	N	10/3/2000	< 0.01	< 0.005	< 0.01	< 0.05	0.2	< 0.1	< 0.05	< 0.001	< 0.1	0.053	0.7	3.7	4.4	< 0.2	< 1	< 1
0614	N	1/10/2001	< 0.01	< 0.005	< 0.01	< 0.05	0.24	< 0.1	< 0.05	0.001	< 0.1	0.051	1.2	3.9	5.1	< 0.2	< 1	< 1
0614	N	4/2/2001	< 0.01	< 0.005	< 0.01	< 0.05	0.27	< 0.1	< 0.05	0.001	< 0.1	0.056	0.8	< 1	0.8	< 0.2	< 1	< 1
0614	N	7/16/2001	< 0.01	< 0.005	< 0.01	< 0.05	0.24	< 0.1	< 0.05	0.001	< 0.1	0.052	0.6	2.4	3	< 0.2	< 1	< 1
0614	N	10/2/2001	< 0.01	< 0.005	< 0.01	< 0.05	0.22	< 0.1	< 0.05	0.001	< 0.1	0.0478	0.9	3.9	4.8	< 0.2	< 1	< 1
0614	N	1/14/2002	< 0.01	< 0.005	< 0.01	< 0.05	0.28	< 0.1	< 0.05	0.003	< 0.1	0.0501	1.1	5.4	6.5	< 0.2	< 1	< 1
0614	N	4/2/2002	< 0.01	< 0.005	< 0.01	< 0.05	0.28	< 0.1	< 0.05	< 0.001	< 0.1	0.0467	< 0.2	< 1	0	< 0.2	< 1	1.5
0614	N	7/10/2002	< 0.01	< 0.005	< 0.01	< 0.05	0.23	< 0.1	< 0.05	< 0.001	< 0.1	0.0508	1.1	2.3	3.4	< 0.2	< 1	2.2
0614	N	10/9/2002	< 0.01	< 0.005	< 0.01	< 0.05	0.32	< 0.1	< 0.05	< 0.001	< 0.1	0.0439	0.9	< 1	0.9	< 0.2	< 1	1.3
0614	N	1/8/2003	< 0.01	< 0.005	< 0.01	< 0.05	0.25	< 0.1	< 0.05	< 0.001	< 0.1	0.0573	1.2	< 1	1.2	< 0.2	< 1	2.1
0614	N	4/9/2003	< 0.01	< 0.005	< 0.01	< 0.05	0.22	< 0.1	< 0.05	< 0.001	< 0.1	0.0536	< 0.2	4	4	< 0.2	< 1	1.6
0614	N	7/9/2003	< 0.01	< 0.005	< 0.01	< 0.05	0.25	< 0.1	< 0.05	< 0.001	< 0.1	0.0403	0.5	< 1	0.5	< 0.2	< 1	< 1.0
0614	N	10/8/2003	< 0.01	< 0.005	< 0.01	< 0.05	0.24	< 0.1	< 0.05	< 0.001	< 0.1	0.0468	0.6	2.9	3.5	< 0.2	< 1	2
0614	N	1/7/2004	< 0.01	< 0.005	< 0.01	< 0.05	0.28	< 0.1	< 0.05	< 0.001	< 0.1	0.0509 D	0.8	< 1.0	0.8	< 0.2	< 1.0	1.9
0614	N	4/7/2004	< 0.01	< 0.005	< 0.01	< 0.05	0.26	< 0.1	< 0.05	0.01	< 0.1	0.0506 D	0.7	3.1	3.8	< 0.2	< 1	2.1
0614	N	7/14/2004	< 0.01	< 0.005	< 0.01	< 0.05	0.2	< 0.1	< 0.05	< 0.001	< 0.1	0.0506 D	0.6	< 1.0	0.6	< 0.2	< 1.0	< 1.0
0614	N	10/6/2004	< 0.01	< 0.005	< 0.01	< 0.05	0.23	< 0.1	< 0.05	0.001	< 0.1	0.0516 D	< 0.2	1.7	1.7	< 0.2	< 1.0	< 1.0
0614	N	1/5/2005	< 0.01	< 0.005	< 0.01	< 0.05	0.24	< 0.1	< 0.05	0.004	< 0.1	0.0532	1.4	< 1.0	1.4	< 0.2	< 1.0	4.4
0614	N	4/6/2005	< 0.01	< 0.005	< 0.01	< 0.05	0.25	< 0.1	< 0.05	< 0.001	< 0.1	0.05	1.1	4.3	5.4	< 0.2	< 1.0	< 1.0
0614	N	7/13/2005	< 0.01	< 0.005	< 0.01	< 0.05	0.27	< 0.1	< 0.05	< 0.001	< 0.1	0.0489	1.3	< 1.0	1.3	< 0.2	< 1.0	1.3
0614	N	10/5/2005	< 0.01	< 0.005	< 0.01	< 0.05	0.3	< 0.1	< 0.05	< 0.001	< 0.1	0.0498 D	0.6	1.6	2.2	< 0.2	< 1.0	< 1.0
0614	N	1/11/2006	< 0.01	< 0.005	< 0.01	< 0.05	0.38	< 0.1	< 0.05	0.009	< 0.1	0.0512	0.7	1.2	1.9	< 0.2	< 1.0	1.3
0614	N	4/4/2006	< 0.01	< 0.005	< 0.01	< 0.05	0.37	< 0.1	< 0.05	0.01	< 0.1	0.0488 D	0.7	< 1.0	0.7	< 0.2	< 1.0	1
0614	N	7/19/2006	< 0.01	< 0.005	< 0.01	< 0.05	0.34	< 0.1	< 0.05	< 0.001	< 0.1	0.0507	0.5	1.8	2.3	< 0.2	< 1.0	< 1.0
0614	N	10/4/2006	< 0.01	< 0.005	< 0.01	< 0.05	0.36	< 0.1	< 0.05	< 0.001	< 0.1	0.0462 D	0.5	3.4	3.9	< 0.2	< 1	< 1
0614	N	1/10/2007	< 0.01	< 0.005	< 0.01	< 0.05	0.39	< 0.1	< 0.05	< 0.001	< 0.1	0.0452	1.2	1.9	3.1	< 0.2	< 1	< 1
0614	N	4/11/2007	< 0.01	< 0.005	< 0.01	< 0.05	0.38	< 0.1	< 0.05	< 0.001	< 0.1	0.0461	0.7	2.4	3.1	< 0.2	< 1	1.5
0614	N	7/11/2007	< 0.01	< 0.005	< 0.01	< 0.05	0.43	< 0.1	< 0.05	< 0.001	< 0.1	0.0492	1.3	< 1	1.3	< 0.2	< 1	< 1
0614	N	10/3/2007	< 0.01	< 0.005	< 0.01	< 0.05	0.49	< 0.1	< 0.05	< 0.001	< 0.1	0.0508	0.7	2	2.7	< 0.2	< 1	2.1
0614	N	1/16/2008	< 0.01	< 0.005	< 0.01	< 0.05	0.48	< 0.1	< 0.05	0.002	< 0.1	0.054	1.6	2.3	3.9	< 0.2	< 1	3.8

TABLE C.1

Zone 1 Data Summary, 1989-2012

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation ft amsl	Field pH SU	Lab pH SU	Lab TDS mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	SO4 mg/l	Cl mg/l	NH4 as N mg/l	NO3 as N mg/l	TTHMs (Chloroform) ug/l	Al mg/l	As mg/l
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05
0614	N	4/9/2008	6,909.61	6.65	7.18	6430	619 D	678 D	517 D	12.0 D	1380	3360 D	309	68.6 D	147 D	210	< 0.1	< 0.001
0614	N	7/9/2008	6,909.11	7.49	7.07	6150	608 D	643 D	513 D	11.3	1290	3190 D	355	72.6 D	121 D	63.6	< 0.1	< 0.003
0614	N	10/8/2008	6,908.91	6.48	6.76	6500	577	612	468 D	10	1580	3510 D	320	72.1 D	111 D	146	< 0.1	< 0.001
0614	N	1/14/2009	6,908.81	7.34	7.09	6870	529	599	493	10 D	1290	2980 D	296	122 D	124 D	42	0.2	< 0.001
0614	N	4/8/2009	6,908.91	6.55	6.8	6570	550 D	616 D	485 D	11	1470	3190 D	325	70.2 D	98.7 D	52	< 0.1	< 0.001
0614	N	7/8/2009	6,908.61	6.41	6.72	6800	615 D	655	490 D	12	1580	3290 D	335	85 D	94 D	141	0.3	< 0.001
0614	N	10/7/2009	6,908.71	6.94	7.6	6650	576 D	652	477 D	12	1410	2980 D	343	76 D	101 D	92	< 0.1	< 0.001
0614	N	1/6/2010	6,908.46	7.18	7.5	7060 D	597 D	664	482 D	12	1230	3430 D	318	61.4 D	110 D	39	< 0.1	< 0.001
0614	N	4/7/2010	6,908.21	7.15	7.12	7080 D	605 D	735	502 D	14	1570	3630 D	306	87 D	116 D	184	< 0.1	< 0.001
0614	N	7/14/2010	6,908.06	7.06	6.75	7100 D	583 D	699	492 D	13	1450	3400 D	288 D	93 D	112 D	167	< 0.1	< 0.001
0614	N	10/6/2010	6,908.06	7.21	7.22	6910 D	567 D	673	487 D	13	1440	3330 D	279 D	95 D	113 D	38	< 0.1	< 0.001
0614	N	1/10/2011	6,908.30	6.62	7.26	6830 D	564 D	694	474 D	14	1400	3450 D	295 D	102 D	97 D	154	< 0.1	< 0.001
0614	N	4/11/2011	6,907.96	7.14	6.99	7030 D	584	702	489	14	1210	3580 D	287 D	50 D	< 0.1	44	0.9	0.003
0614	N	7/13/2011	6,907.51	7.41	7.25	7060 D	577	720	510 D	15	1270	3570 D	283 D	110 D	130 D	32.7	0.6	< 0.001
0614	N	10/5/2011	6,907.85	6.57	7.02	7040 D	556	700	488 D	15	1220	3620 D	278 D	131 D	129 D	49.2	< 0.1	0.002
0614	N	1/4/2012	6907.31	6.59	6.87 H	6980 D	550	671	449	14	1170	3630 D	264 D	137 D	137 D	135	< 0.1	< 0.001
0614	N	4/4/2012	6907.66	6.52	6.70 H	7500 D	492	641	448	17	1190	3610 D	261 D	138 D	144 D	48.4	< 0.1	< 0.001
0614	N	7/11/2012	6907.26	6.42	6.70 H	7010	527	728	463	15	1270	3780 D	274 D	158 D	113 D	132	0.1	< 0.001
0614	N	10/10/2012	6,907.36	6.52	6.58 H	7170	562	703	464 D	17	1370	3720 D	269 D	161 D	139 D	238	< 0.1	< 0.001
0617	N	10/10/2012	6,878.83	6.82	6.75 H	11600	505	1560	504 D	26	1540	7340 D	263 D	264 D	98 D	2.23	1.9	< 0.001
0619	N	7/23/1989	6,888.10	6.60	6.50	5513	593	596	184	8.43	176	3852	35	0.61	0.34	< 1	< 0.1	< 0.001
0619	N	10/12/1989	6,888.20	6.70	7.28	5086	486	491	158	11.1	229	3251	36.6	0.44	1.56	< 1	< 0.1	< 0.001
0619	N	1/10/1990	6,887.60	6.50	7.08	5278	505	539	168	8.75	206	3360	40.5	0.74	1.01	< 1	< 0.1	< 0.001
0619	N	4/6/1990	6,887.60	6.80	6.92	4840	527	512	150	8.8	251	2966	38.5	0.69	0.22	< 1	< 0.1	< 0.001
0619	N	7/3/1990	6,887.00	6.50	7.32	5020	527	478	151	7.8	234	3160	34.2	0.27	0.09	< 1	< 0.1	< 0.001
0619	N	10/3/1990	6,886.90	6.70	7.21	4526	487	392	147	10.1	254	2738	36.6	0.13	< 0.01	< 1	< 0.1	< 0.001
0619	N	1/15/1991	6,887.20	6.50	6.59	5538	572	611	185	12.1	176	3616	41.4	0.54	0.18	< 1	< 0.1	< 0.001
0619	N	4/2/1991	6,887.60	6.40	6.50	5610	479	459	172	8	184	3589	43.1	0.63	1	< 1	0.12	< 0.001
0619	N	7/17/1991	6,888.10	6.40	7.15	5446	452	471	168	7.9	195	3882	43.7	0.68	0.17	< 1	< 0.1	< 0.001
0619	N	10/15/1991	6,888.50	6.40	7.02	5399	540	508	189	7.6	165	3520	44.8	0.63	0.17	< 1	0.27	0.001
0619	N	1/15/1992	6,888.60	6.40	7.34	5182	455	544	177	7.8	231	3398	53.5	1.2	0.87	< 1	< 0.1	< 0.001
0619	N	4/8/1992	6,888.60	6.40	6.52	5323	537	466	204	9.4	180	3504	41.8	0.82	< 0.1	< 1	< 0.1	0.002
0619	N	7/8/1992	6,888.70	6.30	7.64	5017	500	548	302	12.9	175	3863	41.7	1.04	3.7	< 1	0.14	< 0.001
0619	N	10/7/1992	6,889.00	6.50	7.26	5257	538	499	222	10.2	168	3427	39.5	0.59	5.2	< 1	< 0.1	0.002
0619	N	1/6/1993	6,889.30	6.50	7.06	5176	563	507	315	12.6	166	3487	252	0.13	51.8	< 1	< 0.1	0.003
0619	N	4/6/1993	6,889.70	6.60	7.14	5314	487	439	213	7	272	3359	46.6	0.68	0.6	< 1	< 0.1	< 0.001

TABLE C.1
Zone 1 Data Summary, 1989-2012
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
NRC Standard			0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	9.4	5	1	15
EPA Standard			0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15
0614	N	4/9/2008	< 0.01	< 0.005	< 0.01	< 0.05	0.48	< 0.1	< 0.05	< 0.001	< 0.1	0.0512	1.1	2.2	3.3	-0.5 U	0 U	5.6
0614	N	7/9/2008	< 0.01	< 0.005	< 0.01	< 0.05	0.5	< 0.1	< 0.05	< 0.001	< 0.1	0.0539	0.41	0.72 U	1.13	-0.3 U	5.3 U	0.6 U
0614	N	10/8/2008	< 0.01	< 0.005	< 0.01	< 0.05	0.5	< 0.1	< 0.05	< 0.001	< 0.1	0.052	0.25	2.3	2.55	0.3	-2 U	2.4
0614	N	1/14/2009	< 0.01	< 0.005	< 0.01	< 0.05	0.46	< 0.1	< 0.05	0.001	< 0.1	0.0624	0.54	4	4.54	0 U	-1 U	3.3
0614	N	4/8/2009	< 0.01	< 0.005	< 0.01	< 0.05	0.49	< 0.1	< 0.05	0.001	< 0.1	0.0520 D	0.21	2.6	2.81	-0.1 U	-1 U	1
0614	N	7/8/2009	< 0.01	< 0.005	< 0.01	< 0.05	0.54	< 0.1	< 0.05	0.001	< 0.1	0.0524	0.57	3.2	3.77	0.4 U	3	1.7
0614	N	10/7/2009	< 0.01	< 0.005	< 0.01	< 0.05	0.57	< 0.1	< 0.05	< 0.001	< 0.1	0.0512	0.37	2.4	2.77	0.0009 U	-1 U	1.3
0614	N	1/6/2010	< 0.01	< 0.005	< 0.01	< 0.05	0.61	< 0.1	< 0.05	0.002	< 0.1	0.0512	0.5	3.7	4.2	0.03 U	0.9 U	1.1
0614	N	4/7/2010	< 0.01	< 0.005	< 0.01	< 0.05	0.6	< 0.1	< 0.05	0.001	< 0.1	0.0481	0.68	3.4	4.08	-0.07 U	0.01 U	0.7
0614	N	7/14/2010	< 0.01	< 0.005	< 0.01	< 0.05	0.54	< 0.1	< 0.05	0.001	< 0.1	0.0492	0.99	3.1	4.09	0.05 U	-1 U	0.9
0614	N	10/6/2010	< 0.01	< 0.005	< 0.01	< 0.05	0.72	< 0.1	< 0.05	< 0.001	< 0.1	0.0516	0.47	3.5	3.97	0.01 U	2.3	0.9
0614	N	1/10/2011	< 0.01	< 0.005	< 0.01	< 0.05	0.69	< 0.1	< 0.05	< 0.001	< 0.1	0.0502	0.73	3.4	4.13	0.2 U	1.3 U	0.8
0614	N	4/11/2011	< 0.01	< 0.005	0.01	< 0.05	0.65	< 0.1	< 0.05	0.001	< 0.1	0.0494	0.44	3.9	4.34	-0.003 U	1.2 U	1
0614	N	7/13/2011	< 0.01	< 0.005	< 0.01	< 0.05	0.75	< 0.1	< 0.05	0.001	< 0.1	0.0493	0.46	4.2	4.66	0.06 U	0.2 U	1.5
0614	N	10/5/2011	< 0.01	< 0.005	< 0.01	< 0.05	0.77	< 0.1	< 0.05	0.001	< 0.1	0.0455	0.83	4	4.83	0.06 U	-0.8 U	0.8
0614	N	1/4/2012	< 0.01	< 0.005	< 0.01	< 0.05	0.43	< 0.1	< 0.05	< 0.001	< 0.1	0.0469	0.46	4.1	8.66	-0.004 U	0.5 U	0.7
0614	N	4/4/2012	< 0.01	< 0.005	< 0.01	< 0.05	0.61	< 0.1	< 0.05	< 0.001	< 0.1	0.0463	0.85	3.3	7.45	0.04 U	-0.1 U	1.3
0614	N	7/11/2012	< 0.001	< 0.005	< 0.01	0.002	0.61	< 0.1	< 0.05	< 0.001	< 0.1	0.0421	0.61	3.4	7.41	0.06 U	0.9 U	0.9
0614	N	10/10/2012	< 0.001	< 0.005	< 0.01	0.003	0.82	< 0.1	< 0.05	< 0.001	< 0.1	0.0459	1.1	3	4.1	0.04 U	0.3 U	0.6
0617	N	10/10/2012	< 0.001	< 0.005	0.01	0.004	2.1	< 0.1	0.07	0.005	< 0.1	0.0811	2.1	6.9	9	-0.02 U	0.6 U	1.9
0619	N	7/23/1989	< 0.05	< 0.01	< 0.01	< 0.05	2	< 0.1	< 0.05	< 0.001	< 0.1	0.0034	2.5	3.7	6.2	4.9	< 1	9.1
0619	N	10/12/1989	< 0.05	< 0.01	0.02	< 0.05	1.3	< 0.1	< 0.05	< 0.001	< 0.1	0.011	1.3	2	3.3	< 0.2	< 1	1.7
0619	N	1/10/1990	< 0.05	< 0.01	0.03	< 0.05	1.4	< 0.1	< 0.05	< 0.001	< 0.1	0.009	1.1	2	3.1	< 0.2	< 1	1.5
0619	N	4/6/1990	< 0.05	< 0.01	< 0.01	< 0.05	1	< 0.1	< 0.05	0.001	< 0.1	0.009	1.7	2	3.7	< 0.2	< 1	2.5
0619	N	7/3/1990	< 0.05	< 0.01	0.01	< 0.05	1.23	< 0.1	< 0.05	< 0.001	< 0.1	0.0068	1.7	< 1	1.7	0.5	< 1	2
0619	N	10/3/1990	< 0.05	< 0.01	0.03	< 0.05	0.89	< 0.1	< 0.05	< 0.001	< 0.1	0.008	0.9	3.1	4	< 0.2	< 1	< 1
0619	N	1/15/1991	< 0.01	0.01	< 0.01	< 0.05	2.5	< 0.1	< 0.05	< 0.001	< 0.1	0.005	3	4.3	7.3	< 0.2	2.5	3.1
0619	N	4/2/1991	< 0.01	< 0.01	0.01	< 0.05	2.01	< 0.1	< 0.05	< 0.001	< 0.1	0.005	2.3	2.7	5	< 0.2	< 1	2
0619	N	7/17/1991	< 0.01	< 0.01	0.01	< 0.05	< 0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.004	1.1	1	2.1	0.2	1.6	1
0619	N	10/15/1991	< 0.01	< 0.01	< 0.01	< 0.05	2.22	< 0.1	< 0.05	< 0.001	< 0.1	0.009	0.6	4.6	5.2	< 0.2	< 1	< 1
0619	N	1/15/1992	< 0.01	< 0.01	< 0.01	< 0.05	1.82	< 0.1	< 0.05	0.003	< 0.1	0.007	1.2	1.2	2.4	< 0.2	< 1	1
0619	N	4/8/1992	< 0.01	< 0.01	< 0.01	< 0.05	1.92	< 0.1	< 0.05	< 0.001	< 0.1	0.006	0.7	1.8	2.5	< 0.2	< 1	< 1
0619	N	7/8/1992	< 0.01	< 0.01	< 0.01	< 0.05	1.91	< 0.1	< 0.05	0.001	< 0.1	0.003	1	5.2	6.2	< 0.2	1.1	1.5
0619	N	10/7/1992	< 0.01	< 0.01	< 0.01	< 0.05	2.04	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.7	3.2	4.9	< 0.02	< 1	1.9
0619	N	1/6/1993	< 0.01	< 0.01	0.01	< 0.05	0.66	< 0.1	< 0.05	0.003	< 0.1	0.975	0.5	1.6	2.1	< 0.2	< 1	< 1
0619	N	4/6/1993	< 0.01	< 0.01	< 0.01	< 0.05	1.9	< 0.1	< 0.05	< 0.001	< 0.1	0.007	0.8	7.1	7.9	< 0.2	1.9	< 1

TABLE C.1
Zone 1 Data Summary, 1989-2012
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water	Field	Lab	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As
			Elevation	pH	pH													
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05
0619	N	7/13/1993	6,889.60	6.60	6.66	5057	531	471	200	8.1	190	3310	46.2	0.66	0.29	< 1	< 0.1	< 0.001
0619	N	10/7/1993	6,889.50	6.50	6.57	4615	512	460	188	7.4	165	3207	43.5	0.5	< 0.1	< 1	0.32	0.002
0619	N	1/6/1994	6,889.80	6.60	7.01	5111	505	416	179	7	171	3192	50.5	2.23	< 0.1	< 1	< 0.1	< 0.001
0619	N	4/12/1994	6,889.70	6.60	7.03	4764	502	432	177	7	173	3035	45.8	1.64	39.8	< 1	0.21	< 0.001
0619	N	7/20/1994	6,889.50	6.60	6.66	5111	565	427	158	7.5	177	3424	45.5	0.6	< 0.1	< 1	< 0.1	< 0.001
0619	N	10/4/1994	6,889.70	6.70	7.56	5045	573	453	187	8.1	200	3658	46	0.62	< 0.1	< 1	< 0.1	< 0.001
0619	N	1/4/1995	6,889.50	6.50	7.21	5078	580	432	172	8.8	203	3349	44.8	1.19	< 0.1	< 1	< 0.1	< 0.001
0619	N	4/5/1995	6,889.40	6.70	6.94	5148	540	500	174	7.67	212	3405	47	1.3	0.13	< 1	< 0.1	< 0.001
0619	N	7/6/1995	6,888.00	6.70	7.66	4288	515	410	153	7.2	216	2963	40	0.74	< 0.1	< 1	< 0.1	< 0.001
0619	N	10/3/1995	6,888.90	6.30	7.78	4677	530	457	175	7.5	192	3255	41	0.74	0.17	< 1	< 0.1	0.002
0619	N	1/3/1996	6,888.80	6.70	7.31	4731	505	445	182	7.8	179	3260	39.5	0.62	0.12	< 1	< 0.1	< 0.001
0619	N	4/2/1996	6,888.60	6.80	7.90	5039	545	473	164	7.9	204	3395	47	0.52	0.11	< 1	< 0.1	< 0.001
0619	N	7/7/1996	6,888.30	6.40	7.15	5207	515	450	180	8.6	179	3195	50	0.69	< 0.1	< 1	< 0.1	< 0.001
0619	N	10/1/1996	6,888.10	6.40	6.95	5140	547	478	182	8.1	190	3232	47.1	0.46	< 0.1	< 1	0.1	< 0.001
0619	N	1/22/1997	6,888.50	6.20	7.53	5060	540	490	177	8.09	182	3350	44	0.42	< 0.1	< 1	< 0.1	< 0.001
0619	N	4/8/1997	6,887.80	6.50	7.82	5110	539	458	170	8	193	3370	45	0.2	0.17	< 1	< 0.1	< 0.001
0619	N	7/8/1997	6,887.40	7.10	7.73	5130	586	514	182	8.3	190	3510	49.2	0.5	0.21	< 1	< 0.1	< 0.001
0619	N	10/7/1997	6,887.30	6.20	7.78	5080	569	483	178	8.15	217	3190	47.1	0.46	< 0.1	< 1	< 0.1	< 0.001
0619	N	1/15/1998	6,887.20	6.90	8.09	5310	521	484	187	8.8	190	3300	55	0.67	0.13	< 1	< 0.1	< 0.001
0619	N	4/7/1998	6,887.10	6.60	7.42	5280	504	469	176	7.9	188	3120	41.1	0.42	0.26	< 1	< 0.1	< 0.001
0619	N	7/7/1998	6,886.70	6.90	7.61	5210	505	478	181	8.4	195	3200	40.7	0.63	< 0.1	< 1	< 0.1	< 0.001
0619	N	10/6/1998	6,887.00	6.83	7.88	5390	535	532	197	9.4	191	3480	44.8	0.42	0.42	< 1	< 0.1	< 0.001
0619	N	1/5/1999	6,886.20	6.80	7.72	5350	523	497	175	8.5	186	3500	44.3	0.33	0.17	< 1	< 0.1	< 0.001
0619	N	4/6/1999	6,886.40	6.70	7.79	5430	528	534	167	8.1	181	3440	54.4	0.57	0.21	< 1	< 0.1	< 0.001
0619	N	7/13/1999	6,885.69	6.60	7.96	5400	551	565	195	11.4	194	3460	50.3	0.49	0.29	< 1	< 0.1	< 0.001
0619	N	10/5/1999	6,885.60	6.86	7.86	5220	581	606	169	8.4	188	3790	48.3	0.51	0.28	< 1	< 0.1	< 0.001
0619	N	1/4/2000	6,885.60	6.70	7.67	5330	467	497	151	8.9	188	3000	44.4	< 0.05	0.18	< 1	< 0.1	< 0.001
0619	N	10/16/2012	6,876.66	6.86	7.08 H	6050	562	658	275 D	14	506	3750 D	118 D	0.87	<0.1	<0.50	0.5	<0.001
0619 Filtered	N	10/16/2012	6,876.66	6.94	7.08 H	6200	553	652	275 D	14	518	3720 D	119 D	0.9 D	<0.1	<0.50	<0.1	<0.001
0515 A	N	7/23/1989	6,920.50	4.50	4.63	7411	482	871	340	12.6	18	4982	52.5	0.39	86	14	12	< 0.001
0515 A	N	10/12/1989	6,920.80	4.70	4.60	7650	439	861	328	15.8	4.1	4583	77.8	0.39	84	12	15	< 0.001
0515 A	N	1/10/1990	6,919.60	4.00	3.94	9350	449	1017	335	13.7	< 1	6227	36.8	3.79	52	8.4	110	< 0.001
0515 A	N	4/5/1990	6,918.80	3.90	3.98	9405	451	1073	331	13.3	< 1	6237	30.8	3.25	55	11.8	150	< 0.001
0515 A	N	7/3/1990	6,918.10	4.00	4.18	9187	435	941	320	12.7	< 1	6084	59.4	0.67	54.2	22.4	110	< 0.001
0515 A	N	10/3/1990	6,917.80	4.40	4.32	9021	440	992	390	15.7	< 1	5728	82.6	0.17	51.6	25.4	75.6	< 0.001
0515 A	N	1/15/1991	6,916.90	4.40	4.31	9290	523	1146	407	16.7	< 1	6476	68.5	0.65	58.5	42	48.4	< 0.001

TABLE C.1
Zone 1 Data Summary, 1989-2012
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l
NRC Standard			0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	9.4	5	1	15
EPA Standard			0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15
0619	N	7/13/1993	< 0.01	< 0.01	< 0.01	< 0.05	1.8	< 0.1	< 0.05	< 0.001	< 0.1	0.006	1.4	3.5	4.9	< 0.2	2.7	1.8
0619	N	10/7/1993	< 0.01	< 0.01	0.01	< 0.05	1.75	< 0.1	< 0.05	0.002	< 0.1	0.005	1.3	9	10.3	< 0.2	< 1	1.4
0619	N	1/6/1994	< 0.01	< 0.01	< 0.01	< 0.05	1.8	< 0.1	< 0.05	< 0.001	< 0.1	0.004	2.1	2.9	5	< 0.2	1.4	7.4
0619	N	4/12/1994	< 0.01	< 0.01	0.02	< 0.05	1.75	< 0.1	< 0.05	< 0.001	< 0.1	0.005	2	7.9	9.9	< 0.2	5.8	14
0619	N	7/20/1994	< 0.01	< 0.01	< 0.01	< 0.05	1.57	< 0.1	< 0.05	< 0.001	< 0.1	0.01	1.5	1.3	2.8	< 0.2	< 1	3.6
0619	N	10/4/1994	< 0.01	< 0.01	< 0.01	< 0.05	1.85	< 0.1	< 0.05	< 0.001	< 0.1	0.012	1.3	1.9	3.2	< 0.2	2.5	4.3
0619	N	1/4/1995	< 0.01	< 0.01	< 0.01	< 0.05	1.45	< 0.1	0.07	< 0.001	< 0.1	0.01	1.3	3.9	5.2	< 0.2	< 1	7.3
0619	N	4/5/1995	< 0.01	< 0.01	< 0.01	< 0.05	1.78	< 0.1	< 0.05	< 0.001	< 0.1	0.008	1.6	2.8	4.4	< 0.2	3.7	5.9
0619	N	7/6/1995	< 0.01	< 0.01	< 0.01	< 0.05	1.65	< 0.1	< 0.05	< 0.001	< 0.1	0.0065	1.1	3.1	4.2	0.6	< 1	2.7
0619	N	10/3/1995	< 0.01	< 0.01	< 0.01	< 0.05	1.79	< 0.1	< 0.05	< 0.001	< 0.1	0.0101	1.3	< 1	1.3	< 0.2	< 1	3.1
0619	N	1/3/1996	< 0.01	< 0.01	< 0.01	< 0.05	1.78	< 0.1	< 0.05	< 0.001	< 0.1	0.0067	1.5	< 1	1.5	1	< 1	2.5
0619	N	4/2/1996	< 0.01	< 0.01	< 0.01	< 0.05	1.71	< 0.1	< 0.05	< 0.001	< 0.1	0.018	1.7	4.8	6.5	< 0.2	4.1	3.5
0619	N	7/7/1996	< 0.01	< 0.01	< 0.01	< 0.05	1.9	< 0.1	< 0.05	< 0.001	< 0.1	0.008	1.7	< 1	1.7	< 0.2	< 1	1.1
0619	N	10/1/1996	< 0.01	< 0.01	< 0.01	< 0.05	1.86	< 0.1	< 0.05	0.001	< 0.1	0.0036	1.5	< 1	1.5	< 0.2	< 1	2
0619	N	1/22/1997	< 0.01	< 0.01	< 0.01	< 0.05	1.84	< 0.1	< 0.05	< 0.001	< 0.1	0.008	1.3	< 1	1.3	< 0.2	< 1	< 1
0619	N	4/8/1997	< 0.01	< 0.01	< 0.01	< 0.05	1.87	< 0.1	< 0.05	0.004	< 0.1	0.0056	2	4.2	6.2	< 0.2	< 1	4.7
0619	N	7/8/1997	< 0.01	< 0.01	< 0.01	< 0.05	1.94	< 0.1	< 0.05	< 0.001	< 0.1	0.005	1.6	4.2	5.8	< 0.2	< 1	< 1
0619	N	10/7/1997	< 0.01	< 0.01	< 0.01	< 0.05	2.05	< 0.1	< 0.05	< 0.001	< 0.1	0.007	2	< 1	2	< 0.2	< 1	< 1
0619	N	1/15/1998	< 0.01	< 0.005	< 0.01	< 0.05	2.26	< 0.1	< 0.05	< 0.001	< 0.1	0.0099	4.3	3.6	7.9	< 0.2	< 1	7.5
0619	N	4/7/1998	< 0.01	< 0.005	< 0.01	< 0.05	1.94	< 0.1	< 0.05	< 0.001	< 0.1	0.0062	3.6	4.7	8.3	< 0.2	< 1	2.3
0619	N	7/7/1998	< 0.01	< 0.005	< 0.01	< 0.05	1.97	< 0.1	< 0.05	< 0.001	< 0.1	0.0051	1.2	3.6	4.8	< 0.2	< 1	< 1
0619	N	10/6/1998	< 0.01	< 0.005	0.01	< 0.05	2.04	< 0.1	< 0.05	< 0.001	< 0.1	0.016	1.4	3.2	4.6	< 0.2	< 1	< 1
0619	N	1/5/1999	< 0.01	< 0.005	< 0.01	< 0.05	2.17	< 0.1	< 0.05	< 0.001	< 0.1	0.0072	1.3	4.1	5.4	< 0.2	2.4	2.4
0619	N	4/6/1999	< 0.01	0.005	< 0.01	< 0.05	2.19	< 0.1	< 0.05	< 0.001	< 0.1	0.0053	2.5	4.8	7.3	< 0.2	2	2
0619	N	7/13/1999	< 0.01	< 0.005	< 0.01	< 0.05	2.34	< 0.1	< 0.05	< 0.001	< 0.1	0.0072	1.4	3	4.4	< 0.2	< 1	< 1
0619	N	10/5/1999	< 0.01	< 0.005	0.01	< 0.05	2.77	< 0.1	< 0.05	< 0.001	< 0.1	0.0066	1.7	3	4.7	< 0.2	< 1	3.9
0619	N	1/4/2000	< 0.01	< 0.005	< 0.01	< 0.05	2.43	< 0.1	< 0.05	< 0.001	< 0.1	0.0067	1.4	1.8	3.2	< 0.2	< 1	1.5
0619	N	10/16/2012	<0.001	<0.005	0.1	0.003	4.91	<0.1	0.27	<0.001	<0.1	0.0469	1.9	8.9	10.8	0.005 U	0.8 U	2.6
0619 Filtered	N	10/16/2012	<0.001	<0.005	0.11	<0.001	4.94	<0.1	0.27	<0.001	<0.1	0.0474	1.8	9.4	11.2	0.08 U	0.5 U	2.4
0515 A	N	7/23/1989	< 0.05	< 0.01	0.07	< 0.05	7.7	< 0.1	0.26	< 0.001	< 0.1	0.0029	6.3	9.4	15.7	< 0.2	3	23.1
0515 A	N	10/12/1989	< 0.05	< 0.01	0.09	< 0.05	8.5	< 0.01	0.26	0.019	< 0.1	0.004	3.2	< 1	3.2	< 0.2	1.6	3.9
0515 A	N	1/10/1990	< 0.05	< 0.01	0.26	< 0.05	23	< 0.1	0.37	< 0.001	< 0.1	0.01	5.2	9.7	14.9	1.7	3.5	9.7
0515 A	N	4/5/1990	< 0.05	< 0.01	0.31	< 0.05	24	< 0.1	0.46	< 0.001	< 0.1	0.008	4.9	5.5	10.4	1.8	2.2	7.3
0515 A	N	7/3/1990	< 0.05	< 0.01	0.18	< 0.05	17.6	< 0.1	0.35	< 0.001	< 0.1	0.0107	6.9	6.2	13.1	< 0.2	< 1	7
0515 A	N	10/3/1990	< 0.05	< 0.01	0.17	< 0.05	12.8	< 0.1	0.31	< 0.001	< 0.1	0.005	3.3	8.3	11.6	< 0.2	< 1	4
0515 A	N	1/15/1991	0.01	0.01	0.16	< 0.05	11.6	< 0.1	0.32	< 0.001	< 0.1	0.007	5.3	7.1	12.4	< 0.2	< 1	5.7

TABLE C.1

Zone 1 Data Summary, 1989-2012

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation ft amsl	Field pH SU	Lab pH SU	Lab TDS mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO ₃ mg/l	SO ₄ mg/l	Cl mg/l	NH ₄ as N mg/l	NO ₃ as N mg/l	TTHMs (Chloroform) ug/l	Al mg/l	As mg/l
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05
0515 A	N	4/3/1991	6,916.60	4.60	4.88	9254	459	1159	387	12.9	16	5627	83	0.31	41.4	75.3	60.7	< 0.001
0515 A	N	7/17/1991	6,916.50	4.50	4.60	8966	486	940	342	13.2	12	6653	83.5	0.79	38.6	38.4	45.8	< 0.001
0515 A	N	9/4/1991	no data	no data	4.62	9792	429	768	385	13.6	5	6955	52.2	0.66	18.1	36.4	9.6	< 0.001
0515 A	N	10/15/1991	6,916.20	4.80	4.92	9118	410	749	453	15	9.5	5832	108	< 0.05	19.9	102	3.3	< 0.001
0515 A	N	11/4/1991	no data	no data	4.33	9001	426	759	377	12.9	< 1	5750	103	0.53	65.7	28	23.19	< 0.001
0515 A	N	12/2/1991	no data	no data	4.59	9153	425	831	376	13.4	7.2	5298	102	0.9	36	55.9	35.4	< 0.001
0515 A	N	1/15/1992	6,916.10	4.50	4.61	9035	409	814	396	12.6	16.8	5854	90.3	0.18	26.5	19	26.6	< 0.001
0515 A	N	4/8/1992	6,916.20	4.30	5.30	9087	430	723	416	14.5	19.8	5710	130	1.23	19.2	24	16.2	0.003
0515 A	N	7/8/1992	6,915.80	4.30	4.78	8447	438	687	511	17.7	5.3	5892	109	1.78	31	63	21	0.001
0515 A	N	10/7/1992	6,915.70	4.60	4.10	8989	450	953	470	19.4	< 1	6028	78.2	0.43	15.1	48.2	48.8	< 0.001
0515 A	N	1/6/1993	6,915.60	5.30	4.98	7144	415	776	384	13	19.3	4980	145	0.71	21.8	102	10.2	< 0.001
0515 A	N	4/6/1993	6,915.60	4.70	4.55	8962	389	863	471	12.5	2.5	5942	150	0.35	27.1	89	35.6	< 0.001
0515 A	N	7/13/1993	6,915.00	5.00	4.60	8790	449	1088	458	14	7.1	5755	195	1.14	29.3	133	5.73	< 0.001
0515 A	N	10/6/1993	6,914.80	6.00	6.22	8235	454	1038	479	12.6	554	5500	225	0.94	38	255	1.87	< 0.001
0515 A	N	1/6/1994	6,914.70	5.50	6.13	8633	436	862	478	11.3	373	5042	227	2.18	45.7	315	2.92	< 0.001
0515 A	N	4/12/1994	6,914.40	5.70	5.98	8306	433	868	440	11.3	183	5305	223	2.17	51.9	277	1.51	< 0.001
0515 A	N	7/20/1994	6,913.90	5.60	6.91	8197	483	902	419	12.5	206	5157	195	0.97	45.6	271	1.42	< 0.001
0515 A	N	10/4/1994	6,914.00	5.60	6.62	8173	496	924	493	12.6	260	5276	236	1.64	51.8	241	2.45	< 0.001
0515 A	N	1/4/1995	6,913.70	5.50	6.69	8234	485	945	443	14.1	266	5293	212	1.42	49	213	1.7	< 0.001
0515 A	N	4/4/1995	6,913.40	5.60	5.91	7657	488	802	488	14.1	185	5196	240	2	58.5	182	2.04	< 0.001
0515 A	N	7/6/1995	6,912.90	5.80	7.09	8297	475	926	449	13.1	315	5060	236	3.99	49.7	181	0.25	< 0.001
0515 A	N	10/3/1995	6,912.90	5.80	7.16	8311	490	928	477	13	421	5042	253	6.81	53.3	0.264	0.65	0.002
0515 A	N	1/3/1996	6,912.70	5.80	6.43	8017	450	876	468	13.5	475	4830	252	5.6	56.9	236	< 0.1	< 0.001
0515 A	N	4/2/1996	6,912.40	6.00	7.53	8300	506	997	457	14	392	5360	279	6.57	61	0.247	0.6	< 0.001
0515 A	N	7/7/1996	6,912.20	5.30	5.94	8117	447	853	426	13.6	210	4670	250	1.76	54.7	0.211	1.42	< 0.001
0515 A	N	10/1/1996	6,912.00	5.70	6.58	8270	441	910	457	14.5	342	4834	268	6.97	53.5	238	0.85	< 0.001
0515 A	N	1/21/1997	6,911.90	5.60	6.77	8110	449	979	455	15	428	5140	253	8.03	46.8	239	0.97	< 0.001
0515 A	N	4/8/1997	6,911.70	5.50	7.37	8220	456	865	449	15	331	4388	294	6.41	58.5	230	0.75	< 0.001
0515 A	N	7/8/1997	6,911.20	6.40	6.75	8260	502	950	466	15.1	296	5130	300	5.39	57.9	238	1.27	< 0.001
0515 A	N	10/7/1997	6,911.20	5.50	6.71	8200	490	906	450	14.6	254	4790	255	6.04	56.4	242	0.98	< 0.001
0515 A	N	1/15/1998	6,911.00	5.70	6.80	8040	455	860	439	14.7	228	4800	287	10.4	64.8	262	2	< 0.001
0515 A	N	4/7/1998	6,911.00	5.50	7.14	8190	429	821	444	14.1	276	4420	257	6.47	58.9	236	0.78	< 0.001
0515 A	N	7/7/1998	6,910.90	5.80	7.61	8170	481	912	456	14.5	291	4500	291	6.9	63.9	270	0.87	< 0.001
0515 A	N	10/6/1998	6,910.50	5.69	7.32	8170	465	910	468	15.5	317	5000	286	3.89	70.5	no data	0.51	< 0.001
0515 A	N	1/5/1999	6,910.00	5.70	7.18	8200	412	867	410	14.2	306	4900	287	6.47	57.4	210	0.69	< 0.001
0515 A	N	4/6/1999	6,910.10	5.50	6.59	8130	444	889	404	13.7	292	4600	286	6.52	57.8	190	0.86	< 0.001

TABLE C.1
Zone 1 Data Summary, 1989-2012
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
NRC Standard			0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	9.4	5	1	15
EPA Standard			0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15
0515 A	N	4/3/1991	< 0.01	< 0.01	0.11	< 0.05	7.1	< 0.1	0.2	< 0.001	< 0.1	0.003	6.1	7.2	13.3	< 0.2	2	6
0515 A	N	7/17/1991	0.02	< 0.01	0.24	< 0.05	14.7	< 0.1	0.3	< 0.001	< 0.1	0.011	2.7	3.5	6.2	< 0.2	< 1	3
0515 A	N	9/4/1991	< 0.01	< 0.01	0.15	< 0.05	11.6	< 0.1	0.28	< 0.001	< 0.1	0.008	2.1	6.3	8.4	< 0.2	< 1	2
0515 A	N	10/15/1991	< 0.01	< 0.01	0.22	< 0.05	14.4	< 0.1	0.19	< 0.001	< 0.1	0.02	2.4	9	11.4	< 0.2	< 1	3
0515 A	N	11/4/1991	0.02	< 0.01	0.17	< 0.05	15.2	< 0.1	0.33	< 0.001	< 0.1	0.0138	3.5	12	15.5	< 0.2	6.9	4
0515 A	N	12/2/1991	< 0.01	< 0.01	0.24	< 0.05	14.1	< 0.1	0.32	< 0.001	< 0.1	0.01	5.4	10.4	15.8	< 0.2	< 1	5
0515 A	N	1/15/1992	0.02	< 0.01	0.02	< 0.05	15.5	< 0.1	0.31	0.01	< 0.1	0.012	2.6	4.4	7	< 0.2	4.2	3
0515 A	N	4/8/1992	0.01	< 0.01	0.19	< 0.05	13.6	< 0.1	0.27	0.01	< 0.1	0.013	3.4	6.4	9.8	< 0.2	< 1	3.6
0515 A	N	7/8/1992	< 0.01	< 0.01	0.19	< 0.05	15.7	< 0.1	0.26	0.001	< 0.1	0.02	3.4	10.8	14.2	< 0.2	1.6	3.7
0515 A	N	10/7/1992	< 0.01	< 0.01	0.28	< 0.05	18.7	< 0.1	0.38	< 0.001	< 0.1	0.02	5.6	7	12.6	< 0.2	< 1	5.9
0515 A	N	1/6/1993	0.01	< 0.01	0.21	< 0.05	14.2	< 0.1	0.34	0.004	< 0.1	0.015	5.7	6.7	12.4	< 0.2	< 1	5.9
0515 A	N	4/6/1993	0.013	< 0.01	0.26	< 0.05	18.8	< 0.1	0.37	0.001	< 0.1	0.015	2.9	9.5	12.4	< 0.2	4.4	3.6
0515 A	N	7/13/1993	< 0.01	< 0.01	0.2	< 0.05	14	< 0.1	0.28	< 0.001	< 0.1	0.012	2.6	6.5	9.1	< 0.2	2.9	3.4
0515 A	N	10/6/1993	< 0.01	< 0.01	0.13	< 0.05	9.81	< 0.1	0.27	< 0.001	< 0.1	0.004	3.5	7	10.5	< 0.2	2.6	3.9
0515 A	N	1/6/1994	< 0.01	< 0.01	0.15	< 0.05	12.1	< 0.1	0.26	< 0.001	< 0.1	0.004	5.4	2.8	8.2	< 0.2	< 1	10.6
0515 A	N	4/12/1994	< 0.01	< 0.01	< 0.01	< 0.05	10.6	< 0.1	0.21	0.001	< 0.1	0.03	4.8	< 1	4.8	< 0.2	3.9	5
0515 A	N	7/20/1994	< 0.01	< 0.01	0.18	< 0.05	11.4	< 0.1	0.25	0.001	< 0.1	0.002	4.2	9.3	13.5	< 0.2	< 1	24.2
0515 A	N	10/4/1994	< 0.01	< 0.01	0.16	< 0.05	15.3	< 0.1	0.31	< 0.001	< 0.1	0.003	6.6	3.7	10.3	< 0.2	1	12.3
0515 A	N	1/4/1995	< 0.01	< 0.01	0.11	< 0.05	10.2	< 0.1	0.42	< 0.001	< 0.1	0.004	6.2	4.7	10.9	< 0.2	< 1	13.4
0515 A	N	4/4/1995	< 0.01	< 0.01	0.13	< 0.05	11	< 0.1	0.15	< 0.001	< 0.1	0.002	4.7	7.5	12.2	< 0.2	2.9	16.1
0515 A	N	7/6/1995	< 0.01	< 0.01	0.02	< 0.05	2.52	< 0.1	< 0.05	0.002	< 0.1	0.0044	3	4.2	7.2	0.3	< 1	16.1
0515 A	N	10/3/1995	< 0.01	< 0.01	0.07	< 0.05	11.1	< 0.1	0.13	< 0.001	< 0.1	0.0057	3.6	< 1	3.6	< 0.2	< 1	13.6
0515 A	N	1/3/1996	< 0.01	< 0.01	< 0.01	< 0.05	11.4	< 0.1	0.14	< 0.001	< 0.1	0.0038	3.4	3.1	6.5	0.8	< 1	7.4
0515 A	N	4/2/1996	< 0.01	< 0.01	0.08	< 0.05	11.8	< 0.1	0.14	< 0.001	< 0.1	< 0.0003	2.4	3.9	6.3	< 0.2	< 1	5.4
0515 A	N	7/7/1996	< 0.01	< 0.01	0.11	< 0.05	12.9	< 0.1	0.17	< 0.001	< 0.1	0.0023	2.6	< 1	2.6	< 0.2	< 1	3.4
0515 A	N	10/1/1996	< 0.01	< 0.01	0.08	< 0.05	13.2	< 0.1	0.15	0.002	< 0.1	0.0028	2.1	5.4	7.5	< 0.2	< 1	3.8
0515 A	N	1/21/1997	< 0.01	< 0.01	0.07	< 0.05	12.2	< 0.1	0.14	< 0.001	< 0.1	0.004	2.9	3.6	6.5	< 0.2	< 1	2.5
0515 A	N	4/8/1997	< 0.01	< 0.01	0.07	< 0.05	12.1	< 0.1	0.15	0.069	< 0.1	0.0019	4.9	4.5	9.4	< 0.2	< 1	13
0515 A	N	7/8/1997	< 0.01	< 0.01	0.09	< 0.05	14.6	< 0.1	0.15	< 0.001	< 0.1	0.003	1.6	3.7	5.3	< 0.2	< 1	2.2
0515 A	N	10/7/1997	< 0.01	< 0.01	0.08	< 0.05	12.9	< 0.1	0.17	< 0.001	< 0.1	0.003	2.1	< 1	2.1	< 0.2	< 1	3.2
0515 A	N	1/15/1998	< 0.01	< 0.005	0.1	< 0.05	15.6	< 0.1	0.19	< 0.001	< 0.1	0.0025	2.3	4.8	7.1	< 0.2	< 1	2.4
0515 A	N	4/7/1998	< 0.01	< 0.005	0.08	< 0.05	12.1	< 0.1	0.17	< 0.001	< 0.1	0.0034	2.5	3.7	6.2	< 0.2	< 1	4.1
0515 A	N	7/7/1998	< 0.01	< 0.005	0.07	< 0.05	13.9	< 0.1	0.15	< 0.001	< 0.1	0.0031	2.9	4.2	7.1	< 0.2	< 1	3.8
0515 A	N	10/6/1998	< 0.01	< 0.005	0.06	< 0.05	11.8	< 0.1	0.15	< 0.001	< 0.1	0.0049	2.3	1.2	3.5	< 0.2	2.8	210
0515 A	N	1/5/1999	< 0.01	0.011	0.05	< 0.05	12.3	< 0.1	0.12	< 0.001	< 0.1	0.0035	2.2	3.9	6.1	< 0.2	2.5	2.5
0515 A	N	4/6/1999	< 0.01	0.006	0.07	< 0.05	13.6	< 0.1	0.15	< 0.001	< 0.1	0.0029	3.4	4.8	8.2	< 0.2	3.1	3.1

TABLE C.1
Zone 1 Data Summary, 1989-2012
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation ft amsl	Field pH SU	Lab pH SU	Lab TDS mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	SO4 mg/l	Cl mg/l	NH4 as N mg/l	NO3 as N mg/l	TTHMs (Chloroform) ug/l	Al mg/l	As mg/l
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05
0515 A	N	7/13/1999	6,909.88	5.70	7.42	7930	486	938	440	18	272	4800	254	4.52	62.6	172	0.4	< 0.001
0515 A	N	10/5/1999	6,910.00	5.36	7.27	7950	526	1040	423	14.6	253	5440	272	6.64	55.6	183	1.02	< 0.001
0515 A	N	1/4/2000	6,910.40	5.50	7.14	7720	414	810	338	13.7	222	4150	221	3.59	65.1	171	1.22	< 0.001
0515 A	N	5/10/2000	6,910.60	5.50	7.01	8080	437	871	437	13.6	356	4440	261	9.79	62.8	198	2.44	< 0.001
0515 A	N	7/11/2000	6,910.30	5.45	6.50	7740	458	866	428	13.4	242	4460	239	4.19	86.5	154	2.11	< 0.001
0515 A	N	10/3/2000	6,910.40	5.47	6.70	7550	456	906	432	16.2	228	5060	236	2.56	70.1	181	2.08	< 0.001
0515 A	N	1/10/2001	6,910.40	5.62	6.61	7610	440	816	364	12.9	222	4410	258	2.76	66.4	141	2.7	< 0.001
0515 A	N	4/3/2001	6,910.30	5.85	6.54	7580	512	929	373	12.3	225	4640	247	2.85	68.5	148	2.9	< 0.001
0515 A	N	7/17/2001	6,909.90	5.94	5.96	7770	420	810	421	14.1	225	4010	260	2.62	70.9	160	2.89	< 0.001
0515 A	N	10/2/2001	6,910.00	5.44	6.60	7780	430	820	351	14	217	4000	327	2	66.5	165	2.29	< 0.001
0515 A	N	1/14/2002	6,909.85	6.56	6.30	7680	501	887	349	14.6	212	4410	305	2.07	60.5	149	3	0.002
0515 A	N	4/2/2002	6,910.00	5.41	6.57	7670	492	855	412	15.2	214	4790	279	1.75	61.9	162	2.9	< 0.001
0515 A	N	7/10/2002	6,909.30	7.25	6.33	7750	470	850	401	13.4	211	4420	250	2.39	61.5	162	2.4	< 0.001
0515 A	N	10/9/2002	6,910.87	6.54	6.61	6900	428	778	386	12.5	210	4270	228	2.95	63	203	3.1	< 0.001
0515 A	N	1/8/2003	6,909.16	7.08	6.74	7640	385	720	392	13.1	209	3810	223	3.16	57	162	2.4	< 0.001
0515 A	N	4/9/2003	6,908.81	5.31	6.37	7680	443	816	402	18.9	198	4050	270	2.81	58	166	2.4	< 0.001
0515 A	N	7/9/2003	6,908.68	5.25	6.41	6250	450	814	450	14.5	203	4500	246	3.11	61	237	2.6	< 0.001
0515 A	N	10/8/2003	6,908.80	5.24	6.20	7800	453	843	427	12.4	190	4470	232	2.98	59	148	2.6	< 0.001
0515 A	N	1/7/2004	6,909.85	5.38	7.38	7680	512	916	445	14.3	193	4850	275	3.24	60.2 D	124 D	3	< 0.001
0515 A	N	4/7/2004	6,908.45	5.62	5.65	7720	476	847	431	13.6	202	4540 D	253	3.6	60.9 D	167 D	2.8	< 0.001
0515 A	N	7/14/2004	6,908.21	5.22	5.91	8010	470	815	426	14.3	200	4590 D	262	2.88	57.4 D	147 D	2.1	< 0.001
0515 A	N	10/6/2004	6,908.21	5.33	5.92	8000	473 D	857 D	440	13.9	199	4700 D	253	2.94	58 D	110 D	2	< 0.001
0515 A	N	1/5/2005	6,908.03	5.52	5.83	7910	486 D	871 D	432	14	213	4770 D	256	3.22	57 D	41.6 D	2.2	< 0.001
0515 A	N	4/6/2005	6,907.60	5.59	6.17	7530	483	849	436	13.8	207	4490	255	3.45	45	102	1.7	< 0.001
0515 A	N	7/13/2005	6,907.49	5.55	6.33	7690	500 D	845 D	425 D	12.7	199	4640 D	235	3.63	65.3 D	228 D	1.2	< 0.001
0515 A	N	10/5/2005	6,907.48	5.53	6.10	7710	455 D	875 D	427	14.3	209	4540 D	242	4.15	52 D	161 D	1.3	< 0.001
0515 A	N	1/11/2006	6,907.55	5.65	6.42	7560	477 D	872 D	403	13.5	214	4930 D	237	4.94	63 D	142 D	0.9	< 0.001
0515 A	N	4/5/2006	6,907.45	5.53	6.34	7620	489 D	861 D	397	14.1	211	4410 D	253	8.01	63 D	114 D	1.1	< 0.001
0515 A	N	7/19/2006	6,906.83	5.54	5.97	7460	494 D	825 D	436	14.1	215	4540 D	253	4.61	62 D	173 D	0.7	< 0.001
0515 A	N	10/4/2006	6,907.00	5.61	5.86	7710	461 D	813 D	423	14.4	202	4280 D	238	5.84	61 D	176 D	0.9	< 0.001
0515 A	N	1/10/2007	6,906.88	5.57	5.86	7850	448 D	807 D	388	14	220	4640 D	245	5.2 D	58 D	105	0.4	< 0.001
0515 A	N	4/11/2007	6,906.77	5.61	6.12	7770	475 D	874 D	424	16	<1	4800 D	246	5.87	63 D	134	0.8	< 0.001
0515 A	N	7/11/2007	6,906.38	5.54	6.02	7590	492 D	876 D	419	14.6	216	4880 D	240	8 D	68 D	157	0.2	0.003
0515 A	N	10/3/2007	6,906.33	5.40	5.96	7880	436 D	823 D	445 D	15.9	217	4440 D	255 D	6.2 D	61 D	168	0.5	< 0.001
0515 A	N	1/16/2008	6,906.43	5.1	6.37	7470	454 D	819 D	444 D	16.1	202	4340 D	266 D	6.8 D	64 D	227	0.7	< 0.001
0515 A	N	4/9/2008	6,906.43	5.64	6.37	7450	493 D	926 D	485 D	15.8 D	190	5050 D	235	7.7 D	78.6	22.6	1.1	< 0.001

TABLE C.1
Zone 1 Data Summary, 1989-2012
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
NRC Standard			0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	9.4	5	1	15
EPA Standard			0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15
0515 A	N	7/13/1999	< 0.01	0.006	0.05	< 0.05	13.6	< 0.1	0.13	< 0.001	< 0.1	0.0036	2.3	2.9	5.2	< 0.2	2	2
0515 A	N	10/5/1999	< 0.01	0.008	0.07	< 0.05	16.6	< 0.1	0.15	< 0.001	< 0.1	0.0023	2.4	< 1	2.4	< 0.2	< 1	4.7
0515 A	N	1/4/2000	< 0.01	0.006	0.08	< 0.05	14	< 0.1	0.22	< 0.001	< 0.1	0.0025	3.2	4.2	7.4	< 0.2	< 1	3.7
0515 A	N	5/10/2000	< 0.01	< 0.005	0.06	< 0.05	11.8	< 0.1	0.18	< 0.001	< 0.1	0.0036	4.1	2.1	6.2	< 0.2	< 1	12
0515 A	N	7/11/2000	< 0.01	< 0.005	0.09	< 0.05	14.6	< 0.1	0.19	< 0.001	< 0.1	0.0021	2	3.6	5.6	< 0.2	< 1	4.6
0515 A	N	10/3/2000	< 0.01	< 0.005	0.07	< 0.05	11.6	< 0.1	0.15	< 0.001	< 0.1	0.0019	2.8	5.9	8.7	< 0.2	< 1	5.1
0515 A	N	1/10/2001	< 0.01	< 0.005	0.08	< 0.05	12.5	< 0.1	0.22	< 0.001	< 0.1	0.0017	2.6	6.3	8.9	< 0.2	< 1	3.4
0515 A	N	4/3/2001	< 0.01	< 0.005	0.1	< 0.05	13.3	< 0.1	0.25	< 0.001	< 0.1	0.0011	2.7	< 1	2.7	< 0.2	< 1	3.1
0515 A	N	7/17/2001	< 0.01	< 0.005	0.09	< 0.05	13.9	< 0.1	0.24	< 0.001	< 0.1	0.001	3.1	6	9.1	< 0.2	< 1	4.1
0515 A	N	10/2/2001	< 0.01	< 0.005	0.07	< 0.05	13.4	< 0.1	0.11	< 0.001	< 0.1	0.0009	3.1	4.5	7.6	< 0.2	< 1	6.3
0515 A	N	1/14/2002	< 0.01	< 0.005	0.1	< 0.05	15.8	< 0.1	0.26	< 0.001	< 0.1	0.0011	3.2	6.6	9.8	< 0.2	< 1	3.5
0515 A	N	4/2/2002	< 0.01	< 0.005	0.09	< 0.05	15.3	< 0.1	0.23	< 0.001	< 0.1	0.0009	3.4	2.9	6.3	< 0.2	< 1	6
0515 A	N	7/10/2002	< 0.01	< 0.005	0.09	< 0.05	12.4	< 0.1	0.18	< 0.001	< 0.1	0.0013	3.6	6.8	10.4	< 0.2	< 1	8
0515 A	N	10/9/2002	< 0.01	< 0.005	0.08	< 0.05	13.3	< 0.1	0.2	< 0.001	< 0.1	0.002	3.5	3.1	6.6	< 0.2	< 1	9.3
0515 A	N	1/8/2003	< 0.01	< 0.005	0.09	< 0.05	14.8	< 0.1	0.21	< 0.001	< 0.1	0.0012	4	5.4	9.4	< 0.2	< 1	5
0515 A	N	4/9/2003	< 0.01	< 0.005	0.09	< 0.05	13.8	< 0.1	0.22	< 0.001	< 0.1	0.0011	3.3	7	10.3	< 0.2	< 1	3.5
0515 A	N	7/9/2003	< 0.01	< 0.005	0.09	< 0.05	15.7	< 0.1	0.26	< 0.001	< 0.1	0.0008	2.4	6.3	8.7	< 0.2	< 1	3.9
0515 A	N	10/8/2003	< 0.01	< 0.005	0.09	< 0.05	14.8	< 0.1	0.25	< 0.001	< 0.1	0.0014	2.2	2.5	4.7	< 0.2	< 1	5.3
0515 A	N	1/7/2004	< 0.01	< 0.005	0.09	< 0.05	17.4	< 0.1	0.24	< 0.001	< 0.1	0.0012 D	2.3	< 1.0	2.3	< 0.2	< 1.0	7.5
0515 A	N	4/7/2004	< 0.01	< 0.005	0.09	< 0.05	16.3	< 0.1	0.25	0.007	< 0.1	0.0011 D	1.4	4.2	5.6	< 0.2	< 1	7.3
0515 A	N	7/14/2004	< 0.01	< 0.005	0.08	< 0.05	14.6	< 0.1	0.2	< 0.001	< 0.1	0.0011 D	1.7	< 1.0	1.7	< 0.2	< 1.0	4.6
0515 A	N	10/6/2004	< 0.01	< 0.005	0.08	< 0.05	14.8	< 0.1	0.11	< 0.001	< 0.1	0.0009 D	2.3	2.5	4.8	< 0.2	< 1.0	3.5
0515 A	N	1/5/2005	< 0.01	0.006	0.09	< 0.05	15	< 0.1	0.25	0.002	< 0.1	0.001	4.2	1.8	6	< 0.2	< 1.0	10.9
0515 A	N	4/6/2005	< 0.01	< 0.005	0.06	< 0.05	16	< 0.1	0.25	< 0.001	< 0.1	0.001	3.3	1.1	4.4	< 0.2	< 1.0	1.9
0515 A	N	7/13/2005	< 0.01	< 0.005	0.06	< 0.05	15.6	< 0.1	0.24	< 0.001	< 0.1	0.0008	2.6	1.5	4.1	< 0.2	< 1.0	2.8
0515 A	N	10/5/2005	< 0.01	< 0.005	0.07	< 0.05	15.4	< 0.1	0.25	< 0.001	< 0.1	0.0009 D	1.9	1.3	3.2	< 0.2	< 1.0	3.1
0515 A	N	1/11/2006	< 0.01	< 0.005	0.05	< 0.05	15.3	< 0.1	0.23	0.008	< 0.1	0.0009	1.5	1.1	2.6	< 0.2	< 1.0	2.8
0515 A	N	4/5/2006	< 0.01	< 0.005	0.06	< 0.05	16.7	< 0.1	0.25	0.008	< 0.1	0.0008 D	1.3	< 1.0	1.3	< 0.2	< 1.0	2.6
0515 A	N	7/19/2006	< 0.01	< 0.005	0.05	< 0.05	14.7	< 0.1	0.22	< 0.001	< 0.1	0.0007	1.6	1.8	3.4	< 0.2	< 1.0	1.7
0515 A	N	10/4/2006	< 0.01	< 0.005	0.05	< 0.05	16.1	< 0.1	0.24	< 0.001	< 0.1	0.0021 D	1.3	4	5.3	< 0.2	< 1	1.2
0515 A	N	1/10/2007	< 0.01	< 0.005	0.04	< 0.05	15.1	< 0.1	0.2	< 0.001	< 0.1	0.0006	2	< 1	2	< 0.2	< 1	1.4
0515 A	N	4/11/2007	< 0.01	< 0.005	0.06	< 0.05	15.5	< 0.1	0.24	< 0.001	< 0.1	0.0009	1.3	3.4	4.7	< 0.2	< 1	2.3
0515 A	N	7/11/2007	< 0.01	< 0.005	0.05	< 0.05	16.2	< 0.1	0.24	< 0.001	< 0.1	0.0007	2.5	< 1	2.5	< 0.2	< 1	1.7
0515 A	N	10/3/2007	< 0.01	< 0.005	0.04	< 0.05	16.8	< 0.1	0.21	< 0.001	< 0.1	0.0006	1.3	< 1	1.3	< 0.2	< 1	4.5
0515 A	N	1/16/2008	< 0.01	< 0.005	0.05	< 0.05	15.9	< 0.1	0.24	< 0.001	< 0.1	0.0007	2	2.7	4.7	< 0.2	< 1	6.6
0515 A	N	4/9/2008	< 0.01	< 0.005	0.06	< 0.05	18	< 0.1	0.27	< 0.001	< 0.1	0.0009	0.5	3	3.5	1.4	0 U	8.1

TABLE C.1

Zone 1 Data Summary, 1989-2012

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation ft amsl	Field pH SU	Lab pH SU	Lab TDS mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	SO4 mg/l	Cl mg/l	NH4 as N mg/l	NO3 as N mg/l	TTHMs (Chloroform) ug/l	Al mg/l	As mg/l
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05
0515 A	N	7/9/2008	6,905.93	5.44	6.1	7460	493 D	897 D	484 D	15.3	212	4960 D	266	4.99	91.8 D	107	0.4	< 0.003
0515 A	N	10/8/2008	6,905.73	5.64	5.75	7770	460	832	430 D	14	202	5200 D	242	9.9	73.8	128	0.6	< 0.001
0515 A	N	1/14/2009	6,905.73	5.73	6.19	8190	420	825	478	13 D	219	5080 D	248	12.6 D	86 D	76.8	0.9	< 0.001
0515 A	N	4/8/2009	6,905.68	5.66	6.31	7750	438 D	845 D	462 D	15	297	4980 D	275	12.2 D	59.2 D	64.4	0.7	< 0.001
0515 A	N	7/8/2009	6,905.33	5.61	6	7760	480 D	840	451 D	15	219	4960 D	258	13.6 D	58 D	72.4	1.2	< 0.001
0515 A	N	10/7/2009	6,905.43	6.32	6.9	7800	471 D	831	434 D	15	200	4960 D	258	10.0 D	64 D	46.4	0.6	< 0.001
0515 A	N	1/6/2010	6,905.13	6.44	7.4	8110 D	475 D	865	471 D	16	198	5230 D	256	14.4 D	89 D	30.4	0.3	< 0.001
0515 A	N	4/7/2010	6,904.88	6.26	6.82	7790 D	467 D	822	465 D	16	218	4930 D	240	15.7 D	62 D	168	0.9	< 0.001
0515 A	N	7/14/2010	6,904.43	6.3	6.15	8160 D	463 D	997	525 D	17	231	5010 D	255 D	34 D	50 D	156	0.9	< 0.001
0515 A	N	10/6/2010	6,904.58	7.13	6.35	7880 D	463 D	975	540 D	18	365	5370 D	286 D	41.5 D	52 D	158	0.6	< 0.001
0515 A	N	1/5/2011	6,904.43	7.21	7.06	7880 D	467 D	936	506 D	17	321	5060 D	288 D	29 D	53 D	204	0.3	< 0.001
0515 A	N	4/5/2011	6,904.48	6.83	6.59	8690 D	454	1070	588 D	20	417	5420 D	319 D	36 D	49 D	116	0.1	< 0.001
0515 A	N	7/13/2011	6,904.23	6.79	7.54	9520 D	480	1220	636 D	20	729	5970 D	363 D	35 D	44 D	84.4	0.8	< 0.001
0515 A	N	10/5/2011	6,904.26	6.12	7.37	9740 D	455	1180	595 D	20	727	5990 D	360 D	40 D	44 D	83.6	0.1	< 0.001
0515 A	N	1/4/2012	6,904.08	6.13	6.51 H	9920 D	533	1290	642	24	729	6030 D	361 D	44 D	42 D	146	1.4	< 0.001
0515 A	N	4/4/2012	6,903.96	6.18	6.13 H	10400 D	419	1120	557	21	818	6080 D	363 D	36.0 D	46 D	124	2.3	< 0.001
0515 A	N	7/11/2012	6,903.68	5.97	6.20 H	10300	445	1210	575 D	19	872	6120 D	379 D	41 D	45 D	366	4.7	< 0.001
0515 A	N	10/10/2012	6,903.53	6.04	6.06 H	9870	458	1260	604 D	20	893	6160 D	383 D	28 D	39 D	416	1.4	< 0.001
0516 A	N	7/23/1989	6,918.70	4.20	4.08	12629	454	1519	399	9.29	0	8605	207	30.5	146	< 1	240	< 0.001
0516 A	N	10/12/1989	6,918.50	4.40	4.22	11560	449	1343	358	13.6	0	6992	264	39.8	188	< 1	150	< 0.001
0516 A	N	1/10/1990	6,917.80	4.40	4.31	10892	463	1281	409	11.7	< 1	6654	230	25	181	< 1	110	< 0.001
0516 A	N	4/6/1990	6,917.40	4.50	4.27	11343	463	1300	379	12.1	< 1	6989	216	57.3	186	< 1	130	< 0.001
0516 A	N	7/3/1990	6,916.40	4.20	4.28	11462	472	1212	359	10.2	< 1	7003	216	95.5	208	< 1	144	< 0.001
0516 A	N	10/9/1990	6,915.60	4.60	4.51	10430	429	1243	416	13.3	0.1	6467	203	78	208	< 1	80.3	< 0.001
0516 A	N	1/15/1991	6,915.10	4.60	4.50	10179	482	1207	436	19.4	< 1	5983	261	80.8	240	< 1	42.6	< 0.001
0516 A	N	4/2/1991	6,914.40	4.90	4.99	10493	464	1250	387	13.4	25	6165	267	97.9	240	< 1	20.5	< 0.001
0516 A	N	7/17/1991	6,913.80	4.80	5.75	9771	430	1097	390	12.8	100	6873	326	74	281	< 1	12.3	< 0.001
0516 A	N	9/4/1991	no data	no data	5.58	10598	444	1299	394	13.2	173	6936	215	144	59	< 1	8.6	< 0.001
0516 A	N	10/15/1991	6,911.40	5.10	6.39	9878	450	1068	451	16.5	213	6047	275	99	234	< 1	4.18	< 0.001
0516 A	N	11/4/1991	no data	no data	5.88	10139	490	875	392	13.6	381	5597	299	113	135	1.7	5.84	< 0.001
0516 A	N	12/2/1991	no data	no data	6.35	9819	471	879	375	13.8	340	5046	259	132	147	1.3	3.2	< 0.001
0516 A	N	1/15/1992	6,913.20	4.90	4.70	9588	403	1186	364	11.9	21.6	6079	241	201	93.5	1.2	22.2	< 0.001
0516 A	N	4/8/1992	6,912.90	4.90	5.51	10129	444	669	395	15.1	83	6152	369	117	97.1	1.6	11.4	0.002
0516 A	N	7/8/1992	6,912.40	4.80	6.21	9577	495	916	413	25.2	117	6065	234	129	119	1.4	6.56	< 0.001
0516 A	N	10/7/1992	6,912.20	5.00	5.19	9800	492	1090	433	17.2	73.2	6244	229	80.1	15.9	1.3	29.3	0.001
0516 A	N	1/6/1993	6,912.10	5.10	5.70	8137	502	889	398	15.5	168	5252	245	93.7	144	2.1	7.8	< 0.001

TABLE C.1
Zone 1 Data Summary, 1989-2012
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
NRC Standard			0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	9.4	5	1	15
EPA Standard			0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15
0515 A	N	7/9/2008	< 0.01	< 0.005	0.04	< 0.05	18.6	< 0.1	0.25	< 0.001	< 0.1	0.0011	1	3.1	4.1	-0.1 U	8.5 U	2.2
0515 A	N	10/8/2008	< 0.01	< 0.005	0.04	< 0.05	17.6	< 0.1	0.24	< 0.001	< 0.1	0.0011	0.64	3.4	4.04	0.3	1 U	3
0515 A	N	1/14/2009	< 0.01	< 0.005	0.03	< 0.05	17.6	< 0.1	0.21	< 0.001	< 0.1	0.0009 D	1.3	3.5	4.8	-0.3 U	-3 U	2.4
0515 A	N	4/8/2009	< 0.01	< 0.005	0.03	< 0.05	17	< 0.1	0.22	< 0.001	< 0.1	0.0008 D	1.1	3.2	4.3	0.2 U	-3 U	2.5
0515 A	N	7/8/2009	< 0.01	< 0.005	0.03	< 0.05	17.5	< 0.1	0.22	< 0.001	< 0.1	0.0009	1.9	4.2	6.1	0.04 U	1.9 U	2.9
0515 A	N	10/7/2009	< 0.01	< 0.005	0.04	< 0.05	18.4	< 0.1	0.29	< 0.001	< 0.1	0.0008	0.91	2.9	3.81	0.1 U	-2 U	2.6
0515 A	N	1/6/2010	< 0.01	< 0.005	0.03	< 0.05	17.8	< 0.1	0.21	< 0.001	< 0.1	0.0009	1.2	3.5	4.7	0.04 U	0.0 U	2.5
0515 A	N	4/7/2010	< 0.01	< 0.005	0.03	< 0.05	16.8	< 0.1	0.23	< 0.001	< 0.1	0.001	2.5	2.9	5.4	0.04 U	-2 U	2.6
0515 A	N	7/14/2010	< 0.01	< 0.005	0.03	< 0.05	16.1	< 0.1	0.2	< 0.001	< 0.1	0.0011	2.8	3.8	6.6	0.07 U	3.1	2.9
0515 A	N	10/6/2010	< 0.01	< 0.005	0.02	< 0.05	16.6	< 0.1	0.17	< 0.001	< 0.1	0.0027	2.5	3.4	5.9	0.02 U	0.8 U	1.6
0515 A	N	1/5/2011	< 0.01	< 0.005	0.02	< 0.05	16.7	< 0.1	0.18	< 0.001	< 0.1	0.0026	2.2	3.4	5.6	0.02 U	0.3 U	2.7
0515 A	N	4/5/2011	< 0.01	< 0.005	0.02	< 0.05	15.4	< 0.1	0.16	< 0.001	< 0.1	0.0047 B	1.3	3.3	4.6	0.06 U	-0.9 U	2
0515 A	N	7/13/2011	< 0.01	< 0.005	0.02	< 0.05	13.7	< 0.1	0.11	< 0.001	< 0.1	0.0081	1.4	2.5	3.9	0.1 U	0.5 U	1.8
0515 A	N	10/5/2011	< 0.01	< 0.005	0.02	< 0.05	11.6	< 0.1	0.1	< 0.001	< 0.1	0.0074	1.9	2.2	4.1	0.01 U	-0.4 U	1.6
0515 A	N	1/4/2012	< 0.01	< 0.005	0.02	< 0.05	11.1	< 0.1	0.09	< 0.001	< 0.1	0.0094	1.3	2.5	6.3	0.0 U	0.09 U	1.8
0515 A	N	4/4/2012	< 0.01	< 0.005	0.02	< 0.05	10.8	< 0.1	0.1	0.002	< 0.1	0.0104	1.2	2.5	6.2	0.03 U	0.8 U	2.3
0515 A	N	7/11/2012	0.001	< 0.005	0.02	0.004	13.1	< 0.1	0.09	0.003	< 0.1	0.0131	2.1	4.1	10.3	0.1 U	0.7 U	1.6
0515 A	N	10/10/2012	< 0.001	< 0.005	0.02	0.002	8.12	< 0.1	0.13	0.001	< 0.1	0.0125	2	3.3	5.3	0.04 U	0.2 U	1.6
0516 A	N	7/23/1989	< 0.05	< 0.01	0.45	< 0.05	37	< 0.1	0.051	< 0.001	< 0.1	0.0023	13.6	8.3	21.9	< 0.2	2.9	53.8
0516 A	N	10/12/1989	< 0.05	< 0.01	0.4	0.12	29	< 0.01	0.41	0.01	< 0.1	0.005	2.9	18.5	21.4	< 0.2	1.8	2.5
0516 A	N	1/10/1990	< 0.05	< 0.01	0.42	< 0.05	25	< 0.1	0.35	< 0.001	< 0.1	0.003	2.9	4.8	7.7	< 0.2	< 1	3.5
0516 A	N	4/6/1990	< 0.05	< 0.01	0.35	< 0.05	27	< 0.1	0.34	< 0.001	< 0.1	0.004	3.7	2.9	6.6	< 0.2	< 1	4
0516 A	N	7/3/1990	< 0.05	< 0.01	0.25	< 0.05	28	< 0.1	0.45	0.001	< 0.1	0.0029	3.4	2.9	6.3	< 0.2	< 1	3
0516 A	N	10/9/1990	< 0.05	< 0.01	0.25	< 0.05	21.9	< 0.1	0.3	< 0.001	< 0.1	0.0035	3.3	4.6	7.9	< 0.2	< 1	4
0516 A	N	1/15/1991	0.01	< 0.01	0.24	< 0.05	20.6	< 0.1	0.32	< 0.001	< 0.1	0.0028	6.5	6.4	12.9	< 0.2	< 1	6.7
0516 A	N	4/2/1991	< 0.01	< 0.01	0.19	< 0.05	20.3	< 0.1	0.26	< 0.001	< 0.1	0.0003	6	6.8	12.8	< 0.2	3.3	6
0516 A	N	7/17/1991	< 0.01	< 0.01	0.22	< 0.05	18.7	< 0.1	0.27	0.002	< 0.1	0.001	2.3	3.1	5.4	< 0.2	< 1	2
0516 A	N	9/4/1991	< 0.01	< 0.01	0.21	< 0.05	17.7	< 0.1	0.32	0.001	< 0.1	0.0021	1.5	4.7	6.2	< 0.2	1.2	2
0516 A	N	10/15/1991	< 0.01	< 0.01	0.18	< 0.05	15.3	< 0.1	0.22	0.002	< 0.1	0.004	1.3	9.5	10.8	< 0.2	< 1	1
0516 A	N	11/4/1991	< 0.01	< 0.01	0.12	< 0.05	15.3	< 0.1	0.17	0.002	< 0.1	0.0157	2	8.3	10.3	< 0.2	2.3	2
0516 A	N	12/2/1991	< 0.01	< 0.01	0.14	< 0.05	11.6	< 0.1	0.19	< 0.001	< 0.1	0.0009	4	7.8	11.8	< 0.2	< 1	4
0516 A	N	1/15/1992	0.01	< 0.01	0.21	< 0.05	19.2	< 0.1	0.29	0.063	< 0.1	0.063	2.4	8.9	11.3	< 0.2	< 1	2
0516 A	N	4/8/1992	0.01	< 0.01	0.2	< 0.05	15.8	< 0.1	0.22	0.001	< 0.1	0.001	1.8	9.8	11.6	< 0.2	< 1	2
0516 A	N	7/8/1992	< 0.01	< 0.01	0.17	< 0.05	16.2	< 0.1	0.21	< 0.001	< 0.1	0.002	2.1	7.2	9.3	< 0.2	2.6	2.5
0516 A	N	10/7/1992	< 0.01	< 0.01	0.23	< 0.05	18	< 0.1	0.28	0.003	< 0.1	< 0.0003	4.1	5.9	10	< 0.2	3	4.6
0516 A	N	1/6/1993	0.01	< 0.01	0.41	< 0.05	16	< 0.1	0.37	0.009	< 0.1	0.005	3.5	3.6	7.1	< 0.2	< 1	3.9

TABLE C.1

Zone 1 Data Summary, 1989-2012

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation ft amsl	Field pH SU	Lab pH SU	Lab TDS mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	SO4 mg/l	Cl mg/l	NH4 as N mg/l	NO3 as N mg/l	TTHMs (Chloroform) ug/l	Al mg/l	As mg/l
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05
0516 A	N	4/6/1993	6,911.80	5.40	6.26	9954	423	1037	456	13.7	250	6106	252	112	141	1.8	2.9	< 0.001
0516 A	N	7/13/1993	6,911.20	5.60	6.48	9291	485	1102	401	14.4	421	5879	241	92.9	142	2.3	2	< 0.001
0516 A	N	10/7/1993	6,910.50	5.80	6.16	9168	481	1109	417	13.3	348	5596	255	101	169	1.6	2.4	< 0.001
0516 A	N	1/6/1994	6,910.70	5.70	6.26	10048	478	1044	445	12.7	477	5747	237	112	150	2.5	2.87	< 0.001
0516 A	N	4/12/1994	6,910.20	5.80	6.52	9862	472	1121	413	14.6	610	5815	249	138	155	0.87	0.97	< 0.001
0516 A	N	7/20/1994	6,906.80	6.00	6.96	10276	526	1293	389	17.6	953	6286	246	149	157	2.04	0.46	< 0.001
0516 A	N	10/4/1994	6,909.50	6.20	7.37	10221	533	1221	488	17.2	949	6371	249	164	138	1.6	< 0.1	< 0.001
0516 A	N	1/4/1995	6,909.10	6.10	7.01	10761	495	1245	458	19	939	6901	255	198	130	1.8	0.24	< 0.001
0516 A	N	4/5/1995	6,908.80	6.10	6.36	10757	505	1275	478	20.7	1069	6510	255	180	133	1.3	0.12	< 0.001
0516 A	N	7/6/1995	6,903.90	6.20	7.21	10428	491	1290	476	18.7	1302	6259	258	164	129	1.9	< 0.1	< 0.001
0516 A	N	10/3/1995	6,903.70	6.10	7.44	10761	527	1298	450	19.4	1332	6394	238	178	126	1.72	< 0.1	0.001
0516 A	N	1/3/1996	6,908.20	6.40	7.03	11314	469	1340	485	18.5	1302	6480	237	137	142	1.76	< 0.1	0.001
0516 A	N	4/2/1996	6,904.10	6.40	7.29	11345	527	1530	491	19	1320	7150	259	152	146	2.09	< 0.1	0.002
0516 A	N	7/7/1996	6,904.20	6.10	7.15	11529	465	1480	485	19.6	1309	6190	240	150	134	2.56	< 0.1	< 0.001
0516 A	N	10/1/1996	6,903.80	6.40	6.93	11500	494	1600	485	18.9	1270	6640	247	149	128	2.13	< 0.1	< 0.001
0516 A	N	1/22/1997	6,903.70	6.10	7.36	11200	510	1560	481	20.5	1420	6760	241	155	110	2.46	< 0.1	< 0.001
0516 A	N	4/8/1997	6,902.20	6.30	7.57	11500	457	1320	484	19.7	1360	6500	258	136	126	2.06	< 0.1	< 0.001
0516 A	N	7/8/1997	6,902.10	6.70	7.61	11700	528	1580	507	19.7	1360	7120	271	135	124	2.26	< 0.1	< 0.001
0516 A	N	10/7/1997	6,901.40	6.30	7.45	11600	516	1480	480	18.4	1370	6530	258	132	106	2.5	< 0.1	< 0.001
0516 A	N	1/15/1998	6,902.50	6.40	7.59	11600	474	1450	493	20.2	1370	7100	293	129	137	2.9	< 0.1	< 0.001
0516 A	N	4/7/1998	6,901.40	6.20	7.39	11800	450	1310	469	18.2	1360	6220	230	141	116	3	< 0.1	< 0.001
0516 A	N	7/7/1998	6,902.10	6.50	7.36	11800	491	1450	492	18.5	1380	6500	257	145	117	3	< 0.1	< 0.001
0516 A	N	10/6/1998	6,902.10	6.25	7.66	11800	478	1460	514	20.7	1390	7000	256	140	132	2.9	< 0.1	< 0.001
0516 A	N	1/5/1999	6,902.20	6.40	7.57	11900	421	1400	446	19.2	1350	7100	259	152	103	2.2	< 0.1	< 0.001
0516 A	N	4/6/1999	6,902.40	6.30	7.28	11900	456	1480	461	17.7	1350	6840	246	137	118	1.8	< 0.1	< 0.001
0516 A	N	7/13/1999	6,901.04	6.50	7.78	11900	485	1540	518	24.9	1370	6920	254	137	106	2.6	< 0.1	< 0.001
0516 A	N	10/5/1999	6,900.00	6.40	7.71	11900	553	1770	458	18.5	1387	8030	261	143	111	2.7	< 0.1	< 0.001
0516 A	N	1/4/2000	6,899.60	6.30	7.64	11700	459	1520	408	18.1	1290	6590	228	137	113	2.7	< 0.1	< 0.001
EPA 02	N	7/26/1989	6,843.90	6.80	6.80	3959	526	275	267	8.9	256	2463	32.1	0.89	0.01	< 1	0.37	< 0.001
EPA 02	N	10/5/1989	6,844.30	6.40	7.00	4088	528	264	268	11.7	262	2589	29.7	0.89	0.08	< 1	< 0.1	< 0.001
EPA 02	N	1/17/1990	6,844.80	6.20	6.62	3622	446	216	265	8.2	293	2197	29.3	0.77	0.12	< 1	< 0.1	0.001
EPA 02	N	4/18/1990	6,845.00	6.50	6.80	3704	440	220	250	7.8	293	2173	30.3	0.88	0.03	< 1	< 0.1	< 0.001
EPA 02	N	7/17/1990	6,844.90	6.60	6.70	3623	479	208	253	8.5	305	2104	28.8	0.51	0.05	< 1	< 0.1	< 0.001
EPA 02	N	10/16/1990	6,845.10	6.40	7.17	3965	445	230	259	7.5	259	2462	36.2	0.79	0.01	< 1	< 0.1	< 0.001
EPA 02	N	1/8/1991	6,845.30	6.50	6.85	3834	451	236	263	11	264	2388	35.6	0.76	0.01	< 1	< 0.1	< 0.001
EPA 02	N	4/17/1991	6,845.80	6.30	7.37	3708	452	238	268	7.6	284	2300	24.6	0.67	< 0.01	< 1	< 0.1	< 0.001

TABLE C.1
Zone 1 Data Summary, 1989-2012
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
NRC Standard			0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	9.4	5	1	15
EPA Standard			0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15
0516 A	N	4/6/1993	< 0.01	< 0.01	0.14	< 0.05	13	< 0.1	0.21	0.001	< 0.1	0.004	1.8	1.4	3.2	< 0.2	2.6	2
0516 A	N	7/13/1993	< 0.01	< 0.01	0.13	< 0.05	10.3	< 0.1	0.17	0.005	< 0.1	0.003	1.5	4.2	5.7	< 0.2	3	2
0516 A	N	10/7/1993	< 0.01	< 0.01	0.18	< 0.05	12.4	< 0.1	0.22	0.002	< 0.1	0.007	3.7	4	7.7	< 0.2	< 1	4
0516 A	N	1/6/1994	< 0.01	< 0.01	0.11	< 0.05	10.2	< 0.1	0.15	< 0.001	< 0.1	0.001	3.6	1.5	5.1	< 0.2	< 1	6.8
0516 A	N	4/12/1994	< 0.01	< 0.01	0.08	< 0.05	7.8	< 0.1	0.14	0.001	< 0.1	0.003	2.9	5.5	8.4	< 0.2	1.5	11.3
0516 A	N	7/20/1994	< 0.01	< 0.01	0.05	< 0.05	4.95	< 0.1	0.08	< 0.001	< 0.1	0.011	3.8	3.1	6.9	< 0.2	< 1	8.6
0516 A	N	10/4/1994	< 0.01	< 0.01	< 0.01	< 0.05	5.22	< 0.1	< 0.05	0.001	< 0.1	0.013	4.3	< 1	4.3	< 0.2	3.4	4.5
0516 A	N	1/4/1995	< 0.01	< 0.01	0.04	< 0.05	4.74	< 0.1	0.08	< 0.001	< 0.1	0.01	1.4	2.9	4.3	< 0.2	2	5.9
0516 A	N	4/5/1995	< 0.01	< 0.01	< 0.01	< 0.05	3.74	< 0.1	< 0.05	0.001	< 0.1	0.016	1.4	2.2	3.6	< 0.2	3.1	4.9
0516 A	N	7/6/1995	< 0.01	< 0.01	< 0.01	< 0.05	2.7	< 0.1	< 0.05	0.003	< 0.1	0.0183	0.9	< 1	0.9	0.2	< 1	2
0516 A	N	10/3/1995	< 0.01	< 0.01	< 0.01	< 0.05	2.54	< 0.1	< 0.05	0.001	< 0.1	0.0256	1.3	< 1	1.3	< 0.2	< 1	2.5
0516 A	N	1/3/1996	< 0.01	< 0.01	< 0.01	< 0.05	2.34	< 0.1	< 0.05	< 0.001	< 0.1	0.014	1.1	1.4	2.5	< 0.2	1.7	2.7
0516 A	N	4/2/1996	< 0.01	< 0.01	< 0.01	< 0.05	2.1	< 0.1	< 0.05	< 0.001	< 0.1	0.014	0.8	< 1	0.8	< 0.2	< 1	1.4
0516 A	N	7/7/1996	< 0.01	< 0.01	< 0.01	< 0.05	2	< 0.1	< 0.05	< 0.001	< 0.1	0.018	0.7	< 1	0.7	< 0.2	< 1	< 1
0516 A	N	10/1/1996	< 0.01	< 0.01	0.02	< 0.05	2.2	< 0.1	< 0.05	0.002	< 0.1	0.013	0.9	< 1	0.9	< 0.2	< 1	< 1
0516 A	N	1/22/1997	< 0.01	< 0.01	< 0.01	< 0.05	1.79	< 0.1	< 0.05	< 0.001	< 0.1	0.016	1.2	3.2	4.4	< 0.2	< 1	< 1
0516 A	N	4/8/1997	< 0.01	< 0.01	< 0.01	< 0.05	1.77	< 0.1	< 0.05	0.078	< 0.1	0.016	1	4.2	5.2	< 0.2	< 1	< 1
0516 A	N	7/8/1997	< 0.01	< 0.01	< 0.01	< 0.05	1.8	< 0.1	< 0.05	< 0.001	< 0.1	0.015	0.8	< 1	0.8	< 0.2	< 1	< 1
0516 A	N	10/7/1997	< 0.01	< 0.01	0.02	< 0.05	1.83	< 0.1	< 0.05	< 0.001	< 0.1	0.015	1.2	< 1	1.2	< 0.2	< 1	< 1
0516 A	N	1/15/1998	< 0.01	< 0.005	< 0.01	< 0.05	2.03	< 0.1	< 0.05	< 0.001	< 0.1	0.023	1.1	< 1	1.1	< 0.2	< 1	< 1
0516 A	N	4/7/1998	< 0.01	< 0.005	< 0.01	< 0.05	1.61	< 0.1	< 0.05	< 0.001	< 0.1	0.019	1.2	< 1	1.2	< 0.2	< 1	< 1
0516 A	N	7/7/1998	< 0.01	< 0.005	0.02	< 0.05	1.59	< 0.1	< 0.05	< 0.001	< 0.1	0.0181	1.1	< 1	1.1	< 0.2	< 1	2.2
0516 A	N	10/6/1998	< 0.01	< 0.005	< 0.01	< 0.05	1.57	< 0.1	< 0.05	< 0.001	< 0.1	0.0211	1.1	1.6	2.7	< 0.2	< 1	< 1
0516 A	N	1/5/1999	< 0.01	< 0.005	< 0.01	< 0.05	1.66	< 0.1	< 0.05	< 0.001	< 0.1	0.0189	0.8	1.9	2.7	< 0.2	< 1	< 1
0516 A	N	4/6/1999	< 0.01	< 0.005	< 0.01	< 0.05	1.59	< 0.1	< 0.05	0.001	< 0.1	0.0197	0.7	3.4	4.1	< 0.2	< 1	< 1
0516 A	N	7/13/1999	< 0.01	< 0.005	< 0.01	< 0.05	1.67	< 0.1	< 0.05	< 0.001	< 0.1	0.0199	0.7	< 1	0.7	< 0.2	< 1	< 1
0516 A	N	10/5/1999	< 0.01	< 0.005	< 0.01	< 0.05	2.11	< 0.1	< 0.05	< 0.001	< 0.1	0.0218	0.7	< 1	0.7	< 0.2	< 1	1.4
0516 A	N	1/4/2000	< 0.01	< 0.005	0.02	< 0.05	2.37	< 0.1	< 0.05	0.001	< 0.1	0.0178	1.2	< 1	1.2	< 0.2	< 1	1.2
EPA 02	N	7/26/1989	< 0.05	< 0.01	0.06	< 0.05	2.9	< 0.1	0.07	< 0.001	< 0.1	0.0178	1.6	< 1	1.6	1.4	< 1	< 1
EPA 02	N	10/5/1989	< 0.05	< 0.01	< 0.01	< 0.05	2.8	< 0.01	< 0.05	< 0.001	< 0.1	0.004	0.6	1.9	2.5	< 0.2	3.4	1.1
EPA 02	N	1/17/1990	< 0.05	< 0.01	< 0.01	< 0.05	2.6	< 0.1	< 0.05	< 0.001	< 0.1	0.003	0.6	< 1	0.6	0.4	< 1	1.1
EPA 02	N	4/18/1990	< 0.05	< 0.01	< 0.01	< 0.05	2.3	< 0.1	< 0.05	0.001	< 0.1	0.002	1.8	< 1	1.8	< 0.2	< 1	2.3
EPA 02	N	7/17/1990	< 0.05	< 0.01	< 0.01	< 0.05	2.29	< 0.1	< 0.05	< 0.001	< 0.1	0.0019	0.4	1.9	2.3	< 0.2	< 1	< 1
EPA 02	N	10/16/1990	< 0.05	< 0.01	0.01	< 0.05	2.57	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.9	< 1	0.9	< 0.2	< 1	< 1
EPA 02	N	1/8/1991	< 0.01	< 0.01	< 0.01	< 0.05	2.62	< 0.1	< 0.05	< 0.001	< 0.1	0.0196	< 0.2	2	2	< 0.2	< 1	< 1
EPA 02	N	4/17/1991	< 0.01	< 0.01	< 0.01	< 0.05	2.12	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1	1.8	2.8	< 0.2	< 1	1

TABLE C.1

Zone 1 Data Summary, 1989-2012

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation ft amsl	Field pH SU	Lab pH SU	Lab TDS mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	SO4 mg/l	Chl mg/l	NH4 as N mg/l	NO3 as N mg/l	TTHMs (Chloroform) ug/l	Al mg/l	As mg/l
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05
EPA 02	N	7/3/1991	6,846.00	6.40	6.83	4500	523	285	230	7.8	183	3175	38.1	1.07	< 0.01	< 1	0.3	< 0.001
EPA 02	N	10/22/1991	6,846.50	6.40	6.59	3843	475	244	242	7.7	275	2435	34.4	0.96	0.04	< 1	< 0.1	< 0.001
EPA 02	N	1/23/1992	6,846.70	6.50	7.02	3478	455	235	229	7.4	226	2364	32.6	0.88	< 0.01	< 1	< 0.1	< 0.001
EPA 02	N	4/2/1992	6,847.10	6.40	7.86	3799	483	243	279	8.4	282	2486	29.5	0.92	< 0.01	< 1	< 0.1	< 0.001
EPA 02	N	7/16/1992	6,846.50	6.50	6.71	3885	412	224	290	9	237	2606	33.4	0.58	0.2	< 1	0.13	< 0.001
EPA 02	N	10/15/1992	6,846.70	6.30	7.02	4554	580	300	286	10.6	198	2890	36.1	0.92	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	1/14/1993	6,847.00	6.60	7.12	3380	436	196	213	8.3	276	2201	29	0.88	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	4/15/1993	6,847.50	6.60	7.68	3534	455	186	255	6.3	270	2292	30.4	0.67	0.2	< 1	< 0.1	< 0.001
EPA 02	N	7/21/1993	6,848.20	6.60	7.43	3321	458	207	256	8	315	2247	24.3	0.4	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	10/12/1993	6,845.50	6.70	6.50	3692	498	222	231	7.2	300	2274	29.6	0.57	< 0.1	< 1	0.1	< 0.001
EPA 02	N	1/11/1994	6,847.80	6.70	7.10	2674	353	160	194	5.6	300	1765	26.3	0.55	< 0.1	< 1	0.13	< 0.001
EPA 02	N	4/19/1994	6,847.90	6.60	8.05	2781	357	159	223	6.9	284	1771	24.3	0.78	< 0.1	< 1	< 0.1	0.001
EPA 02	N	7/26/1994	6,848.10	6.70	6.93	3353	469	216	223	6.8	273	2026	26.6	0.59	< 0.1	< 1	0.16	< 0.001
EPA 02	N	10/11/1994	6,848.00	6.70	7.70	3036	462	182	222	6.4	304	2057	25.2	0.71	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	1/10/1995	6,848.10	6.60	7.16	3316	486	144	208	7.6	294	2057	27.5	0.98	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	4/6/1995	6,848.50	6.70	6.91	3267	423	183	216	6.72	295	2070	26.5	1.06	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	7/11/1995	6,848.40	6.80	7.14	2674	390	177	203	6.2	325	1705	25.4	0.81	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	10/10/1995	6,842.60	6.70	7.43	2782	393	156	216	6.4	321	1741	24.2	0.6	< 0.1	< 1	< 0.1	0.001
EPA 02	N	1/9/1996	6,848.50	6.80	7.73	2801	382	155	213	6.7	334	1791	24.7	0.46	< 0.1	< 1	< 0.1	0.003
EPA 02	N	4/10/1996	6,842.70	6.90	7.70	3018	408	168	191	6	321	1831	22.7	0.52	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	7/17/1996	6,848.50	6.70	6.88	3042	390	164	208	16	312	1746	29	0.45	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	10/8/1996	6,848.70	6.70	7.17	3150	453	198	211	6.7	315	1866	24.5	0.56	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	1/28/1997	6,848.70	6.90	7.75	3000	400	185	190	6.23	318	1883	29.9	0.48	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	4/15/1997	6,848.70	6.70	7.77	2970	410	184	202	6.6	325	1775	26.4	0.46	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	7/15/1997	6,848.50	6.50	7.46	3090	411	186	192	6.6	321	1780	27.7	0.51	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	10/15/1997	6,848.50	6.60	7.64	2920	400	185	195	6.1	322	1740	31.6	0.5	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	1/20/1998	6,849.20	6.50	7.76	3060	407	182	208	6.9	318	2000	26.8	0.73	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	4/14/1998	6,848.90	6.40	7.47	3130	438	199	194	6.3	316	1830	26.2	0.54	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	7/14/1998	6,848.70	7.00	7.66	3120	385	190	207	6.9	313	1700	22.3	0.49	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	10/6/1998	6,849.50	6.60	7.82	3390	454	227	221	7.9	292	2150	28.6	0.75	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	1/12/1999	6,849.30	6.80	7.65	3060	364	180	181	6.7	311	1740	27.8	0.55	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	4/13/1999	6,849.50	6.70	7.69	3110	420	182	198	6.8	304	1800	31.3	0.64	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	7/20/1999	6,849.19	6.70	7.67	3080	385	186	187	8.8	307	1650	29	0.59	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	10/12/1999	6,849.30	6.64	7.65	3640	478	244	186	7.6	268	1970	45.7	0.7	< 1	< 1	< 0.1	< 0.001
EPA 02	N	1/11/2000	6,849.50	6.70	7.63	3090	384	187	179	7.4	310	1700	28.9	0.57	< 0.1	< 1	0.12	< 0.001
EPA 02	N	5/2/2000	6,850.10	6.60	7.72	2800	349	162	183	5.9	296	1490	20.2	0.48	< 0.1	< 1	< 0.1	< 0.001

TABLE C.1
Zone 1 Data Summary, 1989-2012
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
NRC Standard			0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	9.4	5	1	15
EPA Standard			0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15
EPA 02	N	7/3/1991	< 0.01	< 0.01	< 0.01	< 0.05	3.02	0.03	< 0.05	< 0.001	< 0.1	< 0.0003	0.2	3.7	3.9	< 0.2	< 1	< 1
EPA 02	N	10/22/1991	< 0.01	< 0.01	0.02	< 0.05	2.09	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.2	3.7	3.9	< 0.2	< 1	< 1
EPA 02	N	1/23/1992	< 0.01	< 0.01	< 0.01	< 0.05	2.77	< 0.1	< 0.05	< 0.001	< 0.1	0.003	0.3	< 1	0.3	< 0.2	1.3	< 1
EPA 02	N	4/2/1992	< 0.01	< 0.01	< 0.01	< 0.05	2.46	< 0.1	< 0.05	< 0.001	< 0.1	0.009	0.2	4.4	4.6	< 0.2	3	< 1
EPA 02	N	7/16/1992	< 0.01	< 0.01	< 0.01	< 0.05	2.3	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.8	6.3	8.1	< 0.2	2.5	1.9
EPA 02	N	10/15/1992	< 0.01	< 0.01	< 0.01	< 0.05	3.23	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.2	6.3	7.5	< 0.2	2.1	1.3
EPA 02	N	1/14/1993	< 0.01	< 0.01	< 0.01	< 0.05	2.27	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.2	< 1	0.2	< 0.2	< 1	< 1
EPA 02	N	4/15/1993	< 0.01	< 0.01	< 0.01	< 0.05	2.15	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.5	< 1	0.5	< 0.2	1.6	< 1
EPA 02	N	7/21/1993	< 0.01	< 0.01	< 0.01	< 0.05	1.59	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.7	2.7	3.4	< 0.2	< 1	< 1
EPA 02	N	10/12/1993	< 0.01	< 0.01	0.01	< 0.05	2.11	< 0.1	< 0.05	< 0.001	< 0.1	0.002	1.4	2.1	3.5	< 0.2	2.8	4.5
EPA 02	N	1/11/1994	< 0.01	< 0.01	< 0.01	< 0.05	1.78	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.7	4.3	5	< 0.2	< 1	8.1
EPA 02	N	4/19/1994	< 0.01	< 0.01	0.02	< 0.05	2	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.8	2.1	2.9	< 0.2	< 1	4.1
EPA 02	N	7/26/1994	< 0.01	< 0.01	< 0.01	< 0.05	1.81	< 0.1	< 0.05	< 0.001	< 0.1	0.002	< 0.2	< 1	0	< 0.2	< 1	< 1
EPA 02	N	10/11/1994	< 0.01	< 0.01	< 0.01	< 0.05	1.52	< 0.1	< 0.05	< 0.001	< 0.1	0.002	1	< 1	1	< 0.2	< 1	1.2
EPA 02	N	1/10/1995	< 0.01	< 0.01	< 0.01	< 0.05	1.82	< 0.1	< 0.05	< 0.001	< 0.1	0.002	1.1	< 1	1.1	< 0.2	< 1	2.8
EPA 02	N	4/6/1995	< 0.01	< 0.01	< 0.01	< 0.05	1.59	< 0.1	< 0.05	< 0.001	< 0.1	0.002	0.6	2.4	3	< 0.2	< 1	3.8
EPA 02	N	7/11/1995	< 0.01	< 0.01	< 0.01	< 0.05	1.47	< 0.1	< 0.05	< 0.001	< 0.1	0.0012	1	< 1	1	< 0.2	< 1	3.4
EPA 02	N	10/10/1995	< 0.01	< 0.01	< 0.01	< 0.05	1.48	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.2	< 1	1.2	< 0.2	< 1	1.1
EPA 02	N	1/9/1996	< 0.01	< 0.01	< 0.01	< 0.05	1.48	< 0.1	< 0.05	< 0.001	< 0.1	0.0026	1	< 1	1	< 0.2	< 1	< 1
EPA 02	N	4/10/1996	< 0.01	< 0.01	< 0.01	< 0.05	1.52	< 0.1	< 0.05	< 0.001	< 0.1	0.0008	0.7	< 1	0.7	0.7	< 1	< 1
EPA 02	N	7/17/1996	< 0.01	< 0.01	< 0.01	< 0.05	1.58	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	0.9	< 1	0.9	0.9	< 1	< 1
EPA 02	N	10/8/1996	< 0.01	< 0.01	< 0.01	< 0.05	1.53	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.8	< 1	0.8	< 0.2	< 1	1.7
EPA 02	N	1/28/1997	< 0.01	< 0.01	< 0.01	< 0.05	1.46	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.8	< 1	1.8	< 0.2	< 1	< 1
EPA 02	N	4/15/1997	< 0.01	< 0.01	< 0.01	< 0.05	1.49	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	< 0.2	< 1	0	< 0.2	< 1	< 1
EPA 02	N	7/15/1997	< 0.01	< 0.01	< 0.01	< 0.05	1.42	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.9	2.5	3.4	< 0.2	< 1	< 1
EPA 02	N	10/15/1997	< 0.01	< 0.01	< 0.01	< 0.05	1.49	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.5	< 1	0.5	< 0.2	< 1	< 1
EPA 02	N	1/20/1998	< 0.01	< 0.005	< 0.01	< 0.05	1.75	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	1	< 1	1	< 0.2	< 1	< 1
EPA 02	N	4/14/1998	< 0.01	< 0.005	< 0.01	< 0.05	1.6	< 0.1	< 0.05	< 0.001	< 0.1	0.0008	1.1	< 1	1.1	< 0.2	< 1	< 1
EPA 02	N	7/14/1998	< 0.01	< 0.005	< 0.01	< 0.05	1.5	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	0.9	< 1	0.9	< 0.2	7.5	< 1
EPA 02	N	10/6/1998	< 0.01	< 0.005	< 0.01	< 0.05	1.94	< 0.1	< 0.05	< 0.001	< 0.1	0.0007	1	2.5	3.5	< 0.2	< 1	< 1
EPA 02	N	1/12/1999	< 0.01	< 0.005	< 0.01	< 0.05	1.44	< 0.1	< 0.05	< 0.001	< 0.1	0.0028	0.9	2.5	3.4	< 0.2	< 1	< 1
EPA 02	N	4/13/1999	< 0.01	< 0.005	< 0.01	< 0.05	1.64	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	1.1	< 1	1.1	< 0.2	1.8	1.8
EPA 02	N	7/20/1999	< 0.01	< 0.005	< 0.01	< 0.05	1.35	< 0.1	< 0.05	< 0.001	< 0.1	0.0012	1.2	2.1	3.3	< 0.2	2.1	2.1
EPA 02	N	10/12/1999	< 0.01	< 0.005	< 0.01	< 0.05	2.21	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.6	2.2	2.8	< 0.2	< 1	1.8
EPA 02	N	1/11/2000	< 0.01	< 0.005	< 0.01	< 0.05	1.58	< 0.1	< 0.05	0.001	< 0.1	0.0015	0.8	< 1	0.8	< 0.2	< 1	< 1
EPA 02	N	5/2/2000	< 0.01	< 0.005	< 0.01	< 0.05	1.29	< 0.1	< 0.05	< 0.001	< 0.1	0.0016	1.7	< 1	1.7	< 0.2	< 1	2.2

TABLE C.1

Zone 1 Data Summary, 1989-2012

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation ft amsl	Field pH SU	Lab pH SU	Lab TDS mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	SO4 mg/l	Cl mg/l	NH4 as N mg/l	NO3 as N mg/l	TTHMs (Chloroform) ug/l	Al mg/l	As mg/l
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05
EPA 02	N	7/10/2000	6,849.90	6.67	7.42	2740	369	166	192	5.89	334	1540	20.4	0.47	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	10/2/2000	6,849.95	6.70	7.49	2670	359	172	195	7.8	330	1740	21.2	0.42	< 0.1	< 1	< 0.1	0.004
EPA 02	Dup	10/9/2000	no data	6.69	7.62	2700	327	153	187	6.54	331	1380	18.1	0.43	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	1/15/2001	6,850.00	6.80	7.34	2680	360	157	185	6.5	350	1690	25.8	0.5	< 0.1	< 1	< 0.1	< 0.001
EPA 02	Dup	1/15/2001	no data	6.90	7.47	2560	358	156	185	6.5	330	1680	26.3	0.5	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	4/2/2001	6,850.10	6.87	7.39	2730	408	182	173	6	425	1600	23.7	0.53	< 0.1	< 1	< 0.1	0.001
EPA 02	Dup	4/2/2001	no data	6.88	7.26	2780	407	181	170	5.9	333	1610	24	0.46	< 0.1	< 1	< 0.1	0.001
EPA 02	N	7/16/2001	6,849.60	7.03	7.57	2770	341	159	182	6.9	430	1630	28.3	0.53	< 0.1	< 1	< 0.1	< 0.001
EPA 02	Dup	7/16/2001	no data	7.08	7.49	2720	343	159	185	6.8	331	1610	28.2	0.53	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	10/9/2001	6,849.75	6.67	7.70	2760	330	150	182	6.2	371	1420	25.1	0.36	< 0.1	< 1	< 0.1	0.002
EPA 02	Dup	10/9/2001	no data	6.72	7.10	2730	330	150	177	6.2	338	1440	27.1	0.45	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	1/14/2002	6,849.80	6.96	7.20	2730	406	177	168	8	355	1550	24.8	0.43	< 0.1	< 1	< 0.1	< 0.001
EPA 02	Dup	1/14/2002	no data	6.85	7.10	2770	409	179	174	8.13	334	1600	24.7	0.47	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	4/9/2002	6,849.36	6.83	7.29	2760	356	159	186	6.2	379	1570	25.4	0.45	< 0.1	< 1	< 0.1	< 0.001
EPA 02	Dup	4/9/2002	no data	6.72	7.21	2780	351	158	184	6.3	336	1570	24.8	0.5	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	7/16/2002	6,849.45	6.14	7.54	2760	352	161	188	6	448	1510	24.6	0.6	< 0.1	< 1	< 0.1	< 0.001
EPA 02	Dup	7/16/2002	no data	6.56	7.37	2770	352	160	190	7.6	332	1540	25.9	1.3	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	10/15/2002	6,849.16	6.14	7.72	2630	398	178	189	5.9	432	1700	21	0.5	< 0.1	< 1	< 0.1	0.002
EPA 02	Dup	10/15/2002	no data	6.43	7.48	2650	400	180	187	6.1	337	1750	15.2	0.62	< 0.1	< 1	< 0.1	0.001
EPA 02	N	1/14/2003	6,849.13	6.65	7.62	2700	345	154	172	6.4	409	1410	19.6	0.59	< 0.1	< 1	< 0.1	0.002
EPA 02	Dup	1/14/2003	no data	no data	7.38	2710	380	175	162	6.6	341	1590	23.5	0.69	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	4/15/2003	6,849.54	6.76	7.51	2740	328	141	194	9	448	1550	23.7	0.6	< 0.1	< 1	< 0.1	< 0.001
EPA 02	Dup	4/15/2003	no data	no data	7.37	2730	346	163	192	8.8	333	1520	23.3	0.6	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	7/14/2003	6,849.09	6.50	7.62	2750	352	156	183	7.1	436	1460	25.2	0.5	< 0.1	< 1	< 0.1	< 0.001
EPA 02	Dup	7/14/2003	no data	no data	7.48	2790	365	164	185	7.3	338	1550	19.2	0.57	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	10/14/2003	6,848.80	6.67	7.44	2710	390	172	194	6	438	1620	19.4	0.48	< 0.1	< 1	< 0.1	< 0.001
EPA 02	Dup	10/14/2003	no data	no data	7.52	2700	394	174	194	6.1	329	1600	21.7	0.55	< 0.1	< 1	0.2	< 0.001
EPA 02	N	1/13/2004	6,848.87	6.69	7.74	2700	380	176	196	7.1	323	1640	20.9	0.48	< 0.10	< 1.0	< 0.1	< 0.001
EPA 02	Dup	1/13/2004	no data	no data	7.63	2710	391	180	196	7.6	336	1680	20.5	0.58	< 0.10	< 1.0	< 0.1	< 0.001
EPA 02	N	4/13/2004	6,848.76	6.55	6.97	2680	353	164	182	6.9	405	1580	23.1	0.92	< 0.1	< 1	< 0.1	< 0.001
EPA 02	Dup	4/13/2004	no data	no data	6.82	2710	356	166	191	7.1	342	1620	24.8	0.78	< 0.1	< 1	< 0.1	< 0.001
EPA 02	N	7/20/2004	6,848.67	6.80	6.89	2740	374 D	164 D	202	5.9	358	1530 D	22	0.49	< 0.10	< 1.0	< 0.1	< 0.001
EPA 02	Dup	7/20/2004	no data	no data	6.62	2700	373 D	164 D	201	5.8	331	1550 D	21	0.55	< 0.10	< 1.0	< 0.1	< 0.001
EPA 02	N	10/13/2004	6,848.79	6.93	7.10	2810	367 D	176 D	180	6.5	378	1600 D	23	0.55	< 0.10	< 1.0	< 0.1	< 0.001
EPA 02	Dup	10/13/2004	no data	no data	7.07	2870	386 D	187 D	196	6.6	328	1700 D	24	0.58	< 0.10	< 1.0	< 0.1	< 0.001
EPA 02	N	1/11/2005	6,848.91	7.42	7.11	2850	390 D	180 D	201 D	6.6	356	1630	23	0.51	< 0.1	< 1.0	< 0.1	< 0.001

TABLE C.1
Zone 1 Data Summary, 1989-2012
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
NRC Standard			0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	9.4	5	1	15
EPA Standard			0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15
EPA 02	N	7/10/2000	< 0.01	< 0.005	< 0.01	< 0.05	1.27	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.5	3.9	5.4	< 0.2	< 1	1.4
EPA 02	N	10/2/2000	< 0.01	< 0.005	< 0.01	< 0.05	1.07	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.8	< 1	1.8	< 0.2	< 1	2.6
EPA 02	Dup	10/9/2000	< 0.01	< 0.005	< 0.01	< 0.05	1.07	< 0.1	< 0.05	< 0.001	< 0.1	0.012	1.4	3.3	4.7	< 0.2	< 1	1.5
EPA 02	N	1/15/2001	< 0.01	< 0.005	< 0.01	< 0.05	1.21	< 0.1	< 0.05	< 0.001	< 0.1	0.0015	1.2	2.8	4	< 0.2	< 1	1.2
EPA 02	Dup	1/15/2001	< 0.01	< 0.005	< 0.01	< 0.05	1.15	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	1.4	4.6	6	< 0.2	< 1	1.1
EPA 02	N	4/2/2001	< 0.01	< 0.005	< 0.01	< 0.05	1.14	< 0.1	< 0.05	< 0.001	< 0.1	0.0005	1.4	< 1	1.4	< 0.2	< 1	2.1
EPA 02	Dup	4/2/2001	< 0.01	< 0.005	< 0.01	< 0.05	1.24	< 0.1	< 0.05	< 0.001	< 0.1	0.0006	1.4	< 1	1.4	< 0.2	< 1	1.4
EPA 02	N	7/16/2001	< 0.01	< 0.005	< 0.01	< 0.05	1.2	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	1.4	4.3	5.7	< 0.2	< 1	1.6
EPA 02	Dup	7/16/2001	< 0.01	< 0.005	< 0.01	< 0.05	1.18	< 0.1	< 0.05	< 0.001	< 0.1	0.0006	0.8	6.4	7.2	< 0.2	< 1	< 1
EPA 02	N	10/9/2001	< 0.01	< 0.005	< 0.01	< 0.05	1.08	< 0.1	< 0.05	< 0.001	< 0.1	0.0005	1.3	2.6	3.9	< 0.2	< 1	< 1
EPA 02	Dup	10/9/2001	< 0.01	< 0.005	< 0.01	< 0.05	1.08	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	1.2	< 1	1.2	< 0.2	< 1	< 1
EPA 02	N	1/14/2002	< 0.01	< 0.005	< 0.01	< 0.05	1.34	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.3	3.3	4.6	< 0.2	< 1	1.3
EPA 02	Dup	1/14/2002	< 0.01	< 0.005	< 0.01	< 0.05	1.35	< 0.1	< 0.05	< 0.001	< 0.1	0.0008	1.8	12	13.8	< 0.2	< 1	1.9
EPA 02	N	4/9/2002	< 0.01	< 0.005	< 0.01	< 0.05	1.28	< 0.1	< 0.05	< 0.001	< 0.1	0.0008	1.1	1.7	2.8	< 0.2	< 1	1.8
EPA 02	Dup	4/9/2002	< 0.01	< 0.005	< 0.01	< 0.05	1.28	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.5	< 1	1.5	< 0.2	< 1	1.4
EPA 02	N	7/16/2002	< 0.01	< 0.005	< 0.01	< 0.05	1.28	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.7	< 1	1.7	< 0.2	< 1	1.7
EPA 02	Dup	7/16/2002	< 0.01	< 0.005	< 0.01	< 0.05	1.26	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.9	< 1	0.9	< 0.2	< 1	1.8
EPA 02	N	10/15/2002	< 0.01	< 0.005	< 0.01	< 0.05	1.12	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	1.7	3	4.7	< 0.2	< 1	< 1
EPA 02	Dup	10/15/2002	< 0.01	< 0.005	< 0.01	< 0.05	1.29	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	1.5	< 1	1.5	< 0.2	< 1	< 1
EPA 02	N	1/14/2003	< 0.01	< 0.005	< 0.01	< 0.05	1.23	< 0.1	< 0.05	< 0.001	< 0.1	0.0014	3	< 1	3	< 0.2	< 1	2.2
EPA 02	Dup	1/14/2003	< 0.01	< 0.005	< 0.01	< 0.05	1.23	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	1.9	< 1	1.9	< 0.2	< 1	3
EPA 02	N	4/15/2003	< 0.01	< 0.005	< 0.01	< 0.05	1.28	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.8	10.1	11.9	< 0.2	< 1	2.1
EPA 02	Dup	4/15/2003	< 0.01	< 0.005	< 0.01	< 0.05	1.25	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.3	10.4	11.7	< 0.2	< 1	2.3
EPA 02	N	7/14/2003	< 0.01	< 0.005	< 0.01	< 0.05	1.26	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	1.6	8.7	10.3	< 0.2	< 1	< 1.0
EPA 02	Dup	7/14/2003	< 0.01	< 0.005	< 0.01	< 0.05	1.32	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.3	9.9	11.2	< 0.2	< 1	< 1.0
EPA 02	N	10/14/2003	< 0.01	< 0.005	< 0.01	< 0.05	1.3	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	0.8	8.7	9.5	< 0.2	< 1	1.4
EPA 02	Dup	10/14/2003	< 0.01	< 0.005	< 0.01	< 0.05	1.32	< 0.1	< 0.05	< 0.001	< 0.1	0.0015	1	9.7	10.7	< 0.2	< 1	1.5
EPA 02	N	1/13/2004	< 0.01	< 0.005	< 0.01	< 0.05	1.32	< 0.1	< 0.05	< 0.001	< 0.1	0.0012 D	1.5	< 1.0	1.5	< 0.2	< 1.0	1.4
EPA 02	Dup	1/13/2004	< 0.01	< 0.005	< 0.01	< 0.05	1.3	< 0.1	< 0.05	< 0.001	< 0.1	0.0015 D	1.2	2.1	3.3	< 0.2	< 1.0	1.4
EPA 02	N	4/13/2004	< 0.01	< 0.005	< 0.01	< 0.05	1.29	< 0.1	< 0.05	< 0.001	< 0.1	0.0014	1.1	< 1	1.1	< 0.2	< 1	2
EPA 02	Dup	4/13/2004	< 0.01	< 0.005	< 0.01	< 0.05	1.31	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	1.3	3.7	5	< 0.2	< 1	2.4
EPA 02	N	7/20/2004	< 0.01	< 0.005	< 0.01	< 0.05	1.28	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.5	3.1	4.6	< 0.2	< 1.0	2.3
EPA 02	Dup	7/20/2004	< 0.01	< 0.005	< 0.01	< 0.05	1.27	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	1.3	5.1	6.4	< 0.2	< 1.0	2.2
EPA 02	N	10/13/2004	< 0.01	< 0.005	< 0.01	< 0.05	1.25	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1	2.3	3.3	< 0.2	< 1.0	2.6
EPA 02	Dup	10/13/2004	< 0.01	< 0.005	< 0.01	< 0.05	1.36	< 0.1	< 0.5 D	< 0.001	< 0.1	0.001	1.5	1.1	2.6	< 0.2	< 1.0	2.6
EPA 02	N	1/11/2005	< 0.01	< 0.005	< 0.01	< 0.05	1.45	< 0.1	< 0.05	< 0.001	< 0.1	0.0018	0.8	2.2	3	< 0.2	< 1.0	2.7

TABLE C.1

Zone 1 Data Summary, 1989-2012

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation ft amsl	Field pH SU	Lab pH SU	Lab TDS mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	SO4 mg/l	Cl mg/l	NH4 as N mg/l	NO3 as N mg/l	TTHMs (Chloroform) ug/l	Al mg/l	As mg/l
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05
EPA 02	Dup	1/11/2005	no data	no data	7.05	2910	397 D	187 D	202	6.8	325	1670	23	0.57	< 0.1	< 1.0	< 0.1	< 0.001
EPA 02	N	4/12/2005	6,848.66	6.78	7.08	2750	403	185	206	6.8	348	1740	22	0.49	< 0.1	< 1.0	< 0.1	< 0.001
EPA 02	Dup	4/12/2005	no data	no data	7.11	2750	406	185	203	6.9	322	1760	23	0.5	< 0.1	< 1.0	< 0.1	< 0.001
EPA 02	N	7/19/2005	6,847.89	6.49	7.28	2590	350 D	160 D	195	5.9	389	1420	20	0.4	< 0.1	< 1.0	< 0.1	< 0.001
EPA 02	Dup	7/19/2005	no data	no data	7.15	2630	346 D	159 D	196	5.8	335	1450 D	17	0.46	< 0.1	< 1.0	< 0.1	< 0.001
EPA 02	N	10/11/2005	6,848.28	6.79	7.26	2640	352 D	163 D	199	6.4	284	1560 D	23	0.47	< 0.1	< 1.0	< 0.1	< 0.001
EPA 02	Dup	10/11/2005	no data	no data	7.19	2690	351 D	163 D	197	6.5	357	1570 D	24	0.52	< 0.1	< 1.0	< 0.1	< 0.001
EPA 02	N	1/17/2006	6,848.01	6.93	7.56	2540	345 D	161 D	185	6.2	336	1480 D	21	0.49	< 0.1	< 1.0	< 0.1	< 0.001
EPA 02	Dup	1/17/2006	no data	no data	7.72	2560	339 D	158 D	182	6.2	531	1390	20	0.61	< 0.1	< 1.0	< 0.1	< 0.001
EPA 02	N	4/11/2006	6,848.22	6.86	7.32	2560	364 D	168 D	191	5.9	383	1470	21	0.47	< 0.1	< 1.0	< 0.1	< 0.001
EPA 02	Dup	4/11/2006	no data	no data	7.44	2600	369 D	172 D	193	6	354	1520	21	0.61	< 0.1	< 1.0	< 0.1	< 0.001
EPA 02	N	7/25/2006	6,848.04	6.70	7.24	2540	346 D	154 D	204	6.2	321	1550	21	0.68	< 0.1	< 1.0	< 0.1	< 0.001
EPA 02	Dup	7/25/2006	no data	no data	7.08	2480	356 D	159 D	206	6.5	319	1580	21	0.51	< 0.1	< 1.0	< 0.1	< 0.001
EPA 02	N	10/10/2006	6,847.90	6.69	7.26	2490	352 D	158 D	195	6.3	335	1490	20	0.49	< 0.1	< 0.5	< 0.1	< 0.001
EPA 02	Dup	10/10/2006	no data	no data	7.03	2440	355 D	160 D	195	6.2	337	1500	20	0.54	< 0.1	< 0.5	< 0.1	< 0.001
EPA 02	N	1/16/2007	6,847.64	6.74	7.32	2580	352 D	161 D	186	6.5	310	1520	22	0.29	< 0.1	< 0.5	< 0.1	< 0.001
EPA 02	Dup	1/16/2007	6,847.17	6.74	7.24	2570	359 D	164 D	184	6.3	307	1480	21	0.39	< 0.1	< 0.5	< 0.1	< 0.001
EPA 02	N	4/16/2007	6,847.81	6.96	7.25	2590	343 D	157 D	182	6.4	342	1420	22	0.41	< 0.1	< 0.5	< 0.1	0.002
EPA 02	Dup	4/16/2007	6,847.13	6.82	7.04	2600	349 D	160 D	177	6.2	351	1380	22	0.45	< 0.1	< 0.5	< 0.1	< 0.001
EPA 02	N	7/16/2007	6,847.44	6.61	7.10	2540	352	159	186	5.9	340	1440	20	0.35	< 0.1	< 0.5	< 0.1	0.001
EPA 02	Dup	7/16/2007	6,847.04	6.67	6.83	2510	355 D	164 D	192	6	334	1510	20	0.42	< 0.1	< 0.5	< 0.1	0.002
EPA 02	N	10/8/2007	6,847.26	6.85	7.39	2600	344 D	159 D	185	6.1	287	1490 D	20	0.33	< 0.1	0.91	< 0.1	< 0.001
EPA 02	Dup	10/8/2007	6,846.84	6.78	7.15	2670	350 D	162 D	188	6.2	348	1470	20	0.32	< 0.1	< 0.5	< 0.1	< 0.001
EPA 02	N	1/21/2008	6,847.49	6.78	6.99	2580	333 D	145	192	6.9	291	1480 D	31 D	0.37	< 0.1	< 0.5	< 0.1	< 0.001
EPA 02	Dup	1/21/2008	6,846.94	6.76	6.88	2520	327 D	146	187	6.9	346	1490 D	26 D	0.35	< 0.1	< 0.5	< 0.1	< 0.001
EPA 02	N	4/14/2008	6,847.09	6.53	7.16	2520	369	153	198 D	6.1	335	1550 D	18	0.36	< 0.1	< 0.5	< 0.1	0.002
EPA 02	Dup	4/14/2008	6,846.34	6.48	6.94	2550	358	157	199 D	6.1	329	1590 D	18	0.34	< 0.1	< 0.5	< 0.1	0.001
EPA 02	N	7/14/2008	6,846.99	6.89	6.92	2550	352	157	192 D	6	305	1750 D	18	0.29	< 0.1	< 0.5	< 0.1	< 0.003
EPA 02	Dup	7/14/2008	6,846.39	6.84	6.89	2610	356	160	196 D	6	333	1730 D	19	0.33	< 0.1	< 0.5	< 0.1	< 0.003
EPA 02	N	10/13/2008	6,846.89	6.83	6.84	2780 H	364	165	195 D	6	279	1790 D	18	0.3	< 0.1	< 0.5	< 0.1	0.001
EPA 02	Dup	10/13/2008	6,846.19	6.69	6.87	2710 H	354	161	194 D	6	320	1720 D	18	0.3	< 0.1	< 0.5	< 0.1	< 0.001
EPA 02	N	1/13/2009	6,846.79	6.75	6.98	2750	378	173	212	6	286	1750 D	17	0.28	< 0.1	< 0.5	< 0.1	< 0.001
EPA 02	Dup	1/13/2009	no data	no data	6.96	2800	377	174	211	6	337	1560 D	14	0.28	< 0.1	< 0.5	< 0.1	< 0.001
EPA 02	N	4/13/2009	6,846.84	6.65	6.91	2610	336	153	198	6	309	1700 D	17	0.29	< 0.1	< 0.50	< 0.1	< 0.001
EPA 02	Dup	4/13/2009	no data	no data	6.84	2640	321	146	190	6	347	1610 D	16	0.31	< 0.1	< 0.50	< 0.1	< 0.001
EPA 02	N	7/13/2009	6,846.64	6.6	7.22 H	2690 H	343	149	197	6	326	1720 D	22	0.39	< 0.1	< 0.50	< 0.1	< 0.001

TABLE C.1
Zone 1 Data Summary, 1989-2012
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
NRC Standard			0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	9.4	5	1	15
EPA Standard			0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15
EPA 02	Dup	1/11/2005	< 0.01	< 0.005	< 0.01	< 0.05	1.53	< 0.1	< 0.05	< 0.001	< 0.1	0.0019	0.5	4.1	4.6	< 0.2	< 1.0	3.4
EPA 02	N	4/12/2005	< 0.01	< 0.005	< 0.01	< 0.05	1.52	< 0.1	< 0.05	< 0.001	< 0.1	0.0012	0.7	1.4	2.1	< 0.2	< 1.0	1.5
EPA 02	Dup	4/12/2005	< 0.01	< 0.005	< 0.01	< 0.05	1.53	< 0.1	< 0.05	< 0.001	< 0.1	0.0012	0.7	3.2	3.9	< 0.2	< 1.0	2.5
EPA 02	N	7/19/2005	< 0.01	< 0.005	< 0.01	< 0.05	1.25	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.1	1.8	2.9	< 0.2	< 1.0	< 1.0
EPA 02	Dup	7/19/2005	< 0.01	< 0.005	< 0.01	< 0.05	1.24	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.9	2	2.9	< 0.2	< 1.0	1.2
EPA 02	N	10/11/2005	< 0.01	< 0.005	< 0.01	< 0.05	1.28	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.6	3.7	5.3	< 0.2	< 1.0	1.1
EPA 02	Dup	10/11/2005	< 0.01	< 0.005	< 0.01	< 0.05	1.31	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.6	2.9	4.5	< 0.2	< 1.0	2.2
EPA 02	N	1/17/2006	< 0.01	< 0.005	< 0.01	< 0.05	1.29	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	1.4	2	3.4	< 0.2	< 1.0	1.9
EPA 02	Dup	1/17/2006	< 0.01	< 0.005	< 0.01	< 0.05	1.3	< 0.1	< 0.05	< 0.001	< 0.1	0.0014	1.2	1.8	3	< 0.2	< 1.0	3.1
EPA 02	N	4/11/2006	< 0.01	< 0.005	< 0.01	< 0.05	1.1	< 0.1	< 0.05	< 0.001	< 0.1	0.0017	1	4.3	5.3	< 0.2	< 1.0	1.4
EPA 02	Dup	4/11/2006	< 0.01	< 0.005	< 0.01	< 0.05	1.19	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	1.1	6.2	7.3	< 0.2	< 1.0	< 1.0
EPA 02	N	7/25/2006	< 0.01	< 0.005	< 0.01	< 0.05	1.24	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.3	6.6	7.9	< 0.2	< 1.0	1.2
EPA 02	Dup	7/25/2006	< 0.01	< 0.005	< 0.01	< 0.05	1.46	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.8	4.8	5.6	< 0.2	< 1.0	1.2
EPA 02	N	10/10/2006	< 0.01	< 0.005	< 0.01	< 0.05	1.23	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.4	1.2	2.6	< 0.2	< 1	1.7
EPA 02	Dup	10/10/2006	< 0.01	< 0.005	< 0.01	< 0.05	1.24	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.7	1.5	3.2	< 0.2	< 1	2.5
EPA 02	N	1/16/2007	< 0.01	< 0.005	< 0.01	< 0.05	1.18	< 0.1	< 0.05	< 0.001	< 0.1	0.0012	1.4	2.9	4.3	< 0.2	< 1	1.8
EPA 02	Dup	1/16/2007	< 0.01	< 0.005	< 0.01	< 0.05	1.14	< 0.1	< 0.05	< 0.001	< 0.1	0.0012	1.9	< 1	1.9	< 0.2	< 1	2
EPA 02	N	4/16/2007	< 0.01	< 0.005	< 0.01	< 0.05	1.28	< 0.1	< 0.05	< 0.001	< 0.1	0.0013 D	1.2	2.2	3.4	< 0.2	< 1	1.8
EPA 02	Dup	4/16/2007	< 0.01	< 0.005	< 0.01	< 0.05	1.29	< 0.1	< 0.05	< 0.001	< 0.1	0.0013 D	1.1	2.4	3.5	< 0.2	< 1	1.1
EPA 02	N	7/16/2007	< 0.01	< 0.005	< 0.01	< 0.05	1.14	< 0.1	< 0.05	< 0.001	< 0.1	0.0016	< 0.2	1.4	1.4	< 0.2	< 1	< 1
EPA 02	Dup	7/16/2007	< 0.01	< 0.005	< 0.01	< 0.05	1.28	< 0.1	< 0.05	< 0.001	< 0.1	0.0015	0.7	< 1	0.7	< 0.2	< 1	1.6
EPA 02	N	10/8/2007	< 0.01	< 0.005	< 0.01	< 0.05	1.42	< 0.1	< 0.05	< 0.001	< 0.1	0.0012	1.1	< 1	1.1	< 0.2	< 1	1.7
EPA 02	Dup	10/8/2007	< 0.01	< 0.005	< 0.01	< 0.05	1.39	< 0.1	< 0.05	< 0.001	< 0.1	0.0012	1.4	< 1	1.4	< 0.2	< 1	2.5
EPA 02	N	1/21/2008	< 0.01	< 0.005	< 0.01	< 0.05	1.21	< 0.1	< 0.05	< 0.001	< 0.1	0.0017	1.6	< 1	1.6	< 0.2	< 1	1.6
EPA 02	Dup	1/21/2008	< 0.01	< 0.005	< 0.01	< 0.05	1.23	< 0.1	< 0.05	0.001	< 0.1	0.0018	0.5	< 1	0.5	< 0.2	< 1	2
EPA 02	N	4/14/2008	< 0.01	< 0.005	< 0.01	< 0.05	1.28	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	1.1	2.7	3.8	0.7	-3.1 U	2.4
EPA 02	Dup	4/14/2008	< 0.01	< 0.005	< 0.01	< 0.05	1.26	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	1.3	3	4.3	0.7	-0.1 U	2.6
EPA 02	N	7/14/2008	< 0.01	< 0.005	< 0.01	< 0.05	1.37	< 0.1	< 0.05	< 0.001	< 0.1	0.0016 D	1.5	3.1	4.6	-0.1 U	1.9 U	1.2
EPA 02	Dup	7/14/2008	< 0.01	< 0.005	< 0.01	< 0.05	1.49	< 0.1	< 0.05	< 0.001	< 0.1	0.0017 D	1.4	3.2	4.6	0 U	3.4 U	1.6
EPA 02	N	10/13/2008	< 0.01	< 0.005	< 0.01	< 0.05	1.55	< 0.1	< 0.05	< 0.001	< 0.1	0.0023	0.86	1.7	2.56	0.2	-0.7 U	2.5
EPA 02	Dup	10/13/2008	< 0.01	< 0.005	< 0.01	< 0.05	1.44	< 0.1	< 0.05	< 0.001	< 0.1	0.0019	0.96	2.2	3.16	0.5	0.5 U	2.7
EPA 02	N	1/13/2009	< 0.01	< 0.005	< 0.01	< 0.05	1.4	< 0.1	< 0.05	0.002	< 0.1	0.0017	1.1	2.3	3.4	0.3	-3 U	3.7
EPA 02	Dup	1/13/2009	< 0.01	< 0.005	< 0.01	< 0.05	1.51	< 0.1	< 0.05	< 0.001	< 0.1	0.0015	1.2	3.3	4.5	-0.1 U	-2 U	3.4
EPA 02	N	4/13/2009	< 0.01	< 0.005	< 0.01	< 0.05	1.21	< 0.1	< 0.05	< 0.001	< 0.1	0.0019	1.1	2.2	3.3	-0.1 U	0.2 U	1
EPA 02	Dup	4/13/2009	< 0.04	< 0.005	< 0.01	< 0.05	1.26	< 0.1	< 0.05	< 0.001	< 0.1	0.0018	1.4	3	4.4	-0.03 U	1.2 U	1
EPA 02	N	7/13/2009	< 0.01	< 0.005	< 0.01	< 0.05	1.34	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	1.3	3	4.3	-0.01 U	1.1 U	2.8

TABLE C.1

Zone 1 Data Summary, 1989-2012

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation ft amsl	Field pH SU	Lab pH SU	Lab TDS mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	SO4 mg/l	Cl mg/l	NH4 as N mg/l	NO3 as N mg/l	TTHMs (Chloroform) ug/l	Al mg/l	As mg/l
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05
EPA 02	Dup	7/13/2009	no data	no data	7.09 H	2770 H	353	156	199	6	332	1720 D	17	0.46	<0.1	<0.50	<0.1	<0.001
EPA 02	N	10/12/2009	6,846.74	6.77	7.31	2830 H	360	158	192	6	318	1670 D	21	0.42	<0.1	<0.50	<0.1	<0.001
EPA 02	Dup	10/12/2009	no data	no data	7.2	2790	351	164	198	6	331	1620 D	24	0.45	<0.1	<0.50	<0.1	<0.001
EPA 02	N	1/11/2010	6,846.34	6.86	6.96	2600	346	154	204	7	346	1670 D	18	0.42	0.12	<0.50	<0.1	<0.001
EPA 02	Dup	1/11/2010	6,845.64	6.84	6.99	2780	384	173	204	7	345	1860 D	18	0.47	<0.10	<0.50	<0.1	<0.001
EPA 02	N	4/12/2010	6,846.59	6.76	6.95	2870	369	167	205	7	350	1840 D	29	0.42	<0.1	<0.50	<0.1	<0.001
EPA 02	Dup	4/12/2010	6,845.74	6.75	7.1	2850	368	167	209	7	350	1850 D	16	0.5	<0.1	<0.50	<0.1	0.002
EPA 02	N	7/19/2010	6,846.29	6.61	6.91	2830	353	162	204	6	332	1820 D	21 D	0.5	<0.1	<0.50	<0.1	<0.001
EPA 02	Dup	7/19/2010	6,845.39	6.6	7.26	3000	380	181	201	6	332	1880 D	22 D	0.57	<0.1	<0.50	<0.1	<0.001
EPA 02	N	10/11/2010	6,846.49	6.75	7.81	2800	358	155	203	6	320	1790 DH	18 D	0.46	<0.1	<0.50	<0.1	<0.001
EPA 02	Dup	10/11/2010	6,844.54	6.74	7.69	2750	364	162	215	7	348	1780 D	16 D	0.47	<0.1	<0.50	<0.1	<0.001
EPA 02	N	1/10/2011	6,846.14	6.86	7.71	2740	351	156	199	7	326	1740 D	21 D	0.44	<0.1	<0.50	<0.1	<0.001
EPA 02	N	4/11/2011	6,846.17	6.87	7.21	2830	376	166	214	7	322	1770 D	21 D	0.47	<0.1	<0.50	<0.1	0.002
EPA 02	N	7/18/2011	6,845.99	6.88	7.74	2830	370	162	212	7	312	1650 D	20 D	0.5 D	<0.1	<0.50	0.2	<0.001
EPA 02	Dup	7/18/2011	6,845.19	6.79	7.78	2800	366	163	211	6	321	1680 D	20 D	0.5 D	<0.1	<0.50	0.1	<0.001
EPA 02	Dup	10/10/2011	6,846.11	6.8	7.51	2840	384	169	206	7	285	1790 D	21 D	0.4 D	<0.1	<0.50	<0.1	<0.001
EPA 02	N	10/10/2011	6,845.29	6.77	7.75	2820	386	171	210	7	295	1780 D	21 D	0.4 D	<0.1	<0.50	<0.1	<0.001
EPA 02	N	1/9/2012	6,845.89	6.89	6.77 H	2850	345	143	184	6	286	1720 D	21 D	0.35	<0.1	<0.50	<0.1	<0.001
EPA 02	Dup	1/9/2012	6,845.14	6.91	6.32 H	2710	351	147	187	6	310	1610 D	19 D	0.36	<0.1	<0.50	<0.1	<0.001
EPA 02	N	4/9/2012	6,845.79	6.8	6.88 H	2960	349	162	201	6	305	1790 D	22 D	0.43	<0.1	<0.50	<0.1	<0.01
EPA 02	Dup	4/9/2012	6,844.99	6.79	6.76 H	2820	340	156	195	6	328	1720 D	20 D	0.46	<0.1	<0.50	<0.1	<0.01
EPA 02	N	7/16/2012	6,845.69	6.68	7.10 H	2920	337	155	207	6	299	1790 D	21 D	0.42	<0.1	<0.50	<0.1	<0.001
EPA 02	Dup	7/16/2012	6,844.89	6.73	6.76 H	2890	388	178	175	5	323	1730 D	21 D	0.46	<0.1	<0.50	<0.1	<0.001
EPA 02	N	10/15/2012	6,845.59	6.93	7.04 H	2990	382	161	215	7	306	1800 D	22 D	0.44	<0.1	<0.50	<0.1	<0.001
EPA 02	Dup	10/15/2012	6,844.81	6.93	6.75 H	2820	391	169	216	7	338	1700 D	21 D	0.42	<0.1	<0.50	<0.1	<0.001
EPA 04	N	7/26/1989	6,868.80	6.90	5.97	4433	559	373	242	9.1	183	3039	37.1	0.91	0.03	< 1	< 0.1	< 0.001
EPA 04	N	10/5/1989	6,869.10	6.50	6.90	4760	560	371	244	12.3	182	3043	38.9	0.98	0.1	< 1	< 0.1	< 0.001
EPA 04	N	1/16/1990	6,869.40	6.50	6.76	4554	491	343	229	8.95	217	2919	37.5	0.99	0.1	< 1	< 0.1	< 0.001
EPA 04	N	4/17/1990	6,869.30	6.50	6.90	4604	500	347	223	7.7	194	2851	38.4	1.02	0.15	< 1	< 0.1	< 0.001
EPA 04	N	7/17/1990	6,869.10	6.40	6.70	4642	526	367	226	9.2	201	2855	36.4	0.7	0.06	< 1	< 0.1	< 0.001
EPA 04	N	10/16/1990	6,869.10	6.40	7.15	4645	515	368	232	9.2	193	2987	42.7	0.82	0.11	< 1	< 0.1	< 0.001
EPA 04	N	1/8/1991	6,869.00	6.50	6.65	4644	494	337	225	17	185	3039	40.1	0.99	0.04	< 1	< 0.1	< 0.001
EPA 04	N	4/17/1991	6,869.50	6.50	7.22	4759	525	392	238	8.9	161	3260	40.2	0.97	< 0.01	< 1	0.11	< 0.001
EPA 04	N	7/3/1991	6,869.60	6.60	6.80	4686	504	352	210	7.7	184	3345	37.8	1.04	0.05	< 1	0.3	< 0.001
EPA 04	N	10/22/1991	6,870.20	6.50	6.56	4651	502	350	221	8.2	188	2948	44.2	1.16	0.04	< 1	< 0.1	< 0.001

TABLE C.1

Zone 1 Data Summary, 1989-2012

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
NRC Standard			0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	9.4	5	1	15
EPA Standard			0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15
EPA 02	Dup	7/13/2009	<0.01	<0.005	<0.01	<0.05	1.34	<0.1	<0.05	<0.001	<0.1	0.0012	1.4	2.8	4.2	0.02 U	-0.4 U	3
EPA 02	N	10/12/2009	<0.01	<0.005	<0.01	<0.05	1.44	<0.1	<0.05	<0.001	<0.1	0.0019	1.1	3.1	4.2	-0.02 U	1.1 U	2
EPA 02	Dup	10/12/2009	<0.01	<0.005	<0.01	<0.05	1.49	<0.1	<0.05	<0.001	<0.1	0.0016	1.1	3	4.1	0.06 U	1.1 U	2
EPA 02	N	1/11/2010	<0.01	<0.005	<0.01	<0.05	1.3	<0.1	<0.05	<0.001	<0.1	0.0012	0.87	3.1	3.97	0.02 U	1.9 U	1.7
EPA 02	Dup	1/11/2010	<0.01	<0.005	<0.01	<0.05	1.47	<0.1	<0.05	<0.001	<0.1	0.0012	1.2	3.4	4.6	-0.01 U	0.8 U	1.6
EPA 02	N	4/12/2010	<0.01	<0.005	<0.01	<0.05	1.89	<0.1	<0.05	<0.001	<0.1	0.0012	1.4	2.9	4.3	0.04 U	0.4 U	1.6
EPA 02	Dup	4/12/2010	<0.01	<0.005	<0.01	<0.05	1.5	<0.1	<0.05	<0.001	<0.1	0.0014	1.3	4.7	6	0.03 U	-1 U	1.7
EPA 02	N	7/19/2010	<0.01	<0.005	<0.01	<0.05	1.34	<0.1	<0.05	<0.001	<0.1	0.0011	1.5	2.3	3.8	0.07 U	-0.5 U	3.4
EPA 02	Dup	7/19/2010	<0.01	<0.005	<0.01	<0.05	1.58	<0.1	<0.05	<0.001	<0.1	<0.0003	1.2	3	4.2	0.1 U	0.8 U	2.5
EPA 02	N	10/11/2010	<0.01	<0.005	<0.01	<0.05	0.9	<0.1	<0.05	<0.001	<0.1	0.0013	1.4	2.3	3.7	-0.02 U	0.7 U	1.3
EPA 02	Dup	10/11/2010	<0.01	<0.005	<0.01	<0.05	1.3	<0.1	<0.05	<0.001	<0.1	0.0015	1.6	3.2	4.8	0.03 U	-0.2 U	1.3
EPA 02	N	1/10/2011	<0.01	<0.005	<0.01	<0.05	1.56	<0.1	<0.05	<0.001	<0.1	0.0017	1.2	2.8	4	0.004 U	1.0 U	3.7
EPA 02	N	4/11/2011	<0.01	<0.005	<0.01	<0.05	1.67	<0.1	<0.05	0.002	<0.1	0.0016	1.2	2.3	3.5	0.02 U	0.7 U	1.3
EPA 02	N	7/18/2011	<0.01	<0.005	<0.01	<0.05	1.4	<0.1	<0.05	<0.001	<0.1	0.0018	1.1	3	4.1	0.04 U	-0.5 U	1.5
EPA 02	Dup	7/18/2011	<0.01	<0.005	<0.01	<0.05	1.54	<0.1	<0.05	<0.001	<0.1	0.0012	0.84	3.7	4.54	0.009 U	-0.4 U	1.7
EPA 02	Dup	10/10/2011	<0.01	<0.005	<0.01	<0.05	0.9	<0.1	<0.05	<0.001	<0.1	0.0014	1.2	2.4	3.6	0.0007 U	0.9 U	2.4
EPA 02	N	10/10/2011	<0.01	<0.005	<0.01	<0.05	1.53	<0.1	<0.05	<0.001	<0.1	0.0023	1.5	2.6	4.1	0.06 U	0.7 U	4.7
EPA 02	N	1/9/2012	<0.01	<0.005	<0.01	<0.05	1.18	<0.1	<0.05	<0.001	<0.1	0.002	1.4	1.3 U	4	0.04 U	0.4 U	1.1
EPA 02	Dup	1/9/2012	<0.01	<0.005	<0.01	<0.05	1.2	<0.1	<0.05	<0.001	<0.1	0.0023	1.1	0.82 U	2.74	0.005 U	0.4 U	0.9
EPA 02	N	4/9/2012	<0.01	<0.005	<0.01	<0.05	1.9	<0.1	<0.05	<0.001	<0.1	0.0025	1.1	2.7	6.5	0.008 U	0.3 U	1.3
EPA 02	Dup	4/9/2012	<0.01	<0.005	<0.01	<0.05	1.45	<0.1	<0.05	<0.001	<0.1	0.002	1.1	3.9	8.9	0.01 U	0.4 U	1.5
EPA 02	N	7/16/2012	<0.001	<0.005	<0.01	<0.001	1.39	<0.1	<0.05	<0.001	<0.1	0.0017	1.3	2.2	5.7	0.04 U	0.8 U	1.6
EPA 02	Dup	7/16/2012	<0.001	<0.005	<0.01	<0.001	1.43	<0.1	<0.05	<0.001	<0.1	0.0014	1.6	2.4	6.4	0.02 U	0.5 U	1.4
EPA 02	N	10/15/2012	<0.001	<0.005	<0.01	<0.001	1.24	<0.1	<0.05	<0.001	<0.1	0.002	0.91	2.4	3.31	0.05 U	0.2 U	1.8
EPA 02	Dup	10/15/2012	<0.001	<0.005	<0.01	<0.001	1.39	<0.1	<0.05	<0.001	<0.1	0.0022	1.1	3	4.1	0.4	0.6 U	2.8
EPA 04	N	7/26/1989	< 0.05	< 0.01	< 0.01	< 0.05	3.4	< 0.1	< 0.05	< 0.001	< 0.1	0.004	1.9	1.4	3.3	0.9	< 1	3
EPA 04	N	10/5/1989	< 0.05	< 0.01	< 0.01	< 0.05	3.1	< 0.01	< 0.05	< 0.001	< 0.1	0.003	2	1.9	3.9	0.3	2.2	3
EPA 04	N	1/16/1990	< 0.05	< 0.01	< 0.01	< 0.05	3.4	< 0.1	< 0.05	< 0.001	< 0.1	0.0007	1.3	3.4	4.7	2.8	< 1	3.5
EPA 04	N	4/17/1990	< 0.05	< 0.01	< 0.01	< 0.05	2.5	< 0.1	< 0.05	< 0.001	< 0.1	0.002	0.8	1.6	2.4	< 0.2	2.4	1.5
EPA 04	N	7/17/1990	< 0.05	< 0.01	< 0.01	< 0.05	3.31	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.8	4.4	5.2	< 0.2	1.5	< 1
EPA 04	N	10/16/1990	< 0.05	< 0.01	0.01	< 0.05	3.31	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.5	< 1	1.5	< 0.2	1.1	2
EPA 04	N	1/8/1991	< 0.01	< 0.01	0.01	< 0.05	3.27	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.5	2.7	4.2	< 0.2	< 1	2
EPA 04	N	4/17/1991	< 0.01	< 0.01	< 0.01	< 0.05	3.87	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.7	4.9	5.6	< 0.2	< 1	< 1
EPA 04	N	7/3/1991	< 0.01	< 0.01	0.01	< 0.05	3.21	0.03	< 0.05	< 0.001	< 0.1	0.0029	1.5	5.1	6.6	< 0.2	< 1	1
EPA 04	N	10/22/1991	< 0.01	< 0.01	0.02	< 0.05	3.28	< 0.1	< 0.05	< 0.001	< 0.1	0.0684	0.7	3.9	4.6	< 0.2	1.8	< 1