

Table 23.--Chemical analyses and temperature of water from selected wells, springs, and base-flow-measurement sites--Continued

Location	Date of collection	Temperature (°C)	Milligrams per liter, unless indicated otherwise																			Specific conductance (micromhos per centimeter at 25°C)	pH	Sodium-adsorption ratio	
			Dissolved silica (SiO ₂)	Dissolved iron (Fe) (µg/L)	Dissolved manganese (Mn) (µg/L)	Dissolved calcium (Ca)	Dissolved magnesium (Mg)	Dissolved sodium (Na)	Dissolved potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Dissolved sulfate (SO ₄)	Dissolved chloride (Cl)	Dissolved fluoride (F)	Dissolved nitrate (NO ₃) + nitrite (NO ₂) as nitrogen (N)	Dissolved ortho-phosphate (PO ₄)	Dissolved boron (B) (µg/L)	Dissolved solids (sum of determined constituents)	Alkalinity as CaCO ₃	Hardness (Ca, Mg)	Noncarbonate hardness				
Springs - Continued																									
(C-43-5)1ccd-S1	10-28-76	8.0	29	--	--	47	75	42	8.5	589	--	13	28	0.4	0.06	0.03	200	534	483	430	0	800	--	0.9	
2ddd-S1	10- 5-76	16.0	24	--	--	87	65	39	9.1	0	--	250	21	.3	.43	.06	170	667	281	480	200	850	--	.8	
12bda-S1	10-12-76	13.0	11	--	--	39	19	13	2.5	200	--	16	11	.2	2.4	.03	60	221	164	180	12	370	--	.4	
(C-43-6)10ada-S1	10-29-76	--	15	--	--	61	20	7.8	2.9	284	--	10	8.1	.3	.16	.09	60	266	233	230	2	--	--	.2	
(C-43-7)3ccc-S1	6-14-77	12.0	10	20	0	36	11	1.7	1.1	160	0	5.6	1.7	.0	1.0	.03	20	150	130	140	4	260	6.5	.1	
17acb-S1	5-11-77	11.5	9.4	--	--	22	8.3	1.3	1.7	100	--	6.0	1.3	.1	1.1	.03	10	104	82	89	7	190	--	.1	
17acb-S2	5-11-77	10.5	8.4	--	--	15	5.7	.8	1.4	68	--	2.3	.7	.1	1.3	.03	10	74	56	61	5	130	--	.0	
17bcc-S1	6-16-77	16.0	9.4	210	8	5.4	1.0	.7	.8	14	--	5.2	.5	.0	.21	.06	10	31	11	18	6	--	--	.1	
20aca-S1	5-11-77	14.0	9.9	--	--	41	10	3.8	2.5	170	--	11	4.3	.1	.71	.03	30	170	140	140	4	280	--	.1	
(C-43-8)1aca-S1	5- 1-77	--	19	--	--	41	6.2	5.1	.5	140	--	13	4.3	.1	.54	.18	20	161	115	130	13	260	--	.2	
(C-39-4½)26ddd-S1	10-20-76	10.0	9.3	--	--	53	69	26	13	423	--	130	9.0	.5	.26	.03	220	520	347	420	69	775	--	.6	
35dab-S1	10-20-76	12.0	9.2	--	--	100	130	80	21	515	--	510	18	.7	.06	.00	350	1,120	422	790	360	1,500	--	1.2	
(C-41-4½)6adc-S1	10-20-76	11.0	11	--	--	110	92	52	7.0	371	--	420	12	.5	.84	.06	160	891	304	650	350	1,210	--	.9	
6daa-S1	10-20-76	--	15	--	--	34	210	110	24	249	--	960	25	.5	.17	.00	330	1,500	204	950	750	1,700	--	1.6	
(C-42-4½)32dab-S1	10-21-76	14.0	11	--	--	38	22	7.9	2.3	186	--	20	6.6	.2	4.1	.09	50	218	153	190	33	410	--	.3	
(C-43-4½)33baa-S1	10- 4-76	15.5	16	--	--	150	29	44	7.6	16	--	530	21	1.2	.13	.15	140	808	13	490	480	1,100	--	.9	
Base-flow-measurement sites																									
(C-39-7)20ccc	6-22-77	18.0	7.4	60	0	43	32	1.6	0.4	270	0	6.6	0.8	0.1	0.01	0.00	10	225	220	240	18	400	6.5	0.0	
(C-40-7)1bbc	10- 2-77	10.0	8.7	40	0	53	31	1.7	1.3	260	0	20	2.2	.4	--	--	10	247	210	260	47	430	6.5	.0	
(C-40-8)36dac	10- 3-77	16.5	10	20	10	91	59	24	5.4	220	0	340	6.9	.3	--	--	50	645	180	470	290	900	6.5	.5	
(C-42-6)20aaa	10-29-76	--	11	--	--	43	22	7.7	2.5	194	--	40	5.3	.2	.84	.06	40	231	159	200	39	--	--	.2	
30dbc	6- 2-77	18.0	18	330	170	80	27	9.0	2.2	360	0	5.9	6.6	.2	.62	.00	100	330	300	310	16	550	6.5	.2	
(C-42-6)32abd	10-29-76	--	10	--	--	56	24	8.6	2.5	211	--	69	5.7	.3	.74	.03	40	283	173	240	66	--	--	.2	
(C-44-5)11ddc	10-13-76	16.0	14	--	--	140	180	300	12	519	--	1,100	150	.5	.15	.06	900	2,150	426	1,100	670	2,700	--	4.0	
(C-40-4½)6add	10-20-76	10.0	6.9	--	--	62	45	7.9	4.2	284	--	96	2.6	.3	.18	.00	50	366	233	340	110	580	--	.2	
31bda	10-14-76	13.5	11	--	--	90	130	73	8.8	229	--	590	18	.4	.09	.12	110	1,030	188	760	570	1,400	--	1.2	
(C-43-4½)8bbb	10-27-76	12.0	17	--	--	61	49	27	4.1	433	--	22	26	.3	.38	.15	120	422	355	350	0	690	--	.6	
18ccc	10-12-76	20.0	11	--	--	72	40	23	5.0	324	--	99	19	.3	.19	.00	120	430	266	340	79	720	--	.5	
30ccc	10-12-76	18.0	14	--	--	92	95	90	11	584	--	250	54	.5	.14	.06	380	895	479	620	140	1,300	--	1.6	
	10-13-76	12.0	13	--	--	100	130	210	11	557	--	680	110	.5	.08	.06	720	1,530	457	790	330	2,000	--	3.3	

1/Analysis by Nevada Power Co.

2/Analysis by Utah Department of Health.

3/Analysis includes, in micrograms per liter, aluminum (Al), 20; arsenic (As), 1; barium (Ba), 300; beryllium (Be), 0; cadmium (Cd), 1; chromium (Cr), 0; cobalt (Co), 0; copper (Cu), 1; lead (Pb), 28; lithium (Li), 2; mercury (Hg), 0.0; molybdenum (Mo), 0; nickel (Ni), 1; selenium (Se), 4; vanadium (V), 1.0; zinc (Zn), 10.

4/Analysis includes, in micrograms per liter, aluminum (Al), 20; arsenic (As), 0; barium (Ba), 100; beryllium (Be), 5; cadmium (Cd), 1; chromium (Cr), 0; cobalt (Co), 0; copper (Cu), 2; lead (Pb), 7; lithium (Li), 4; mercury (Hg), 0.1; molybdenum (Mo), 1; nickel (Ni), 3; selenium (Se), 1; vanadium (V), 8.0; zinc (Zn), 10.

5/Analysis includes, in micrograms per liter, aluminum (Al), 20; arsenic (As), 1; barium (Ba), 0; beryllium (Be), 0; cadmium (Cd), 15; chromium (Cr), 0; cobalt (Co), 2; copper (Cu), 1; lead (Pb), 10; lithium (Li), 0; mercury (Hg), 0.4; molybdenum (Mo), 0; nickel (Ni), 9; selenium (Se), 0; vanadium (V), 0.7; zinc (Zn), 10.

6/Sampled at 40-foot depth in Shinarump Member of the Chinle Formation.

7/Sampled at 325-foot depth in Moenkopi Formation.

8/Analysis by U.S. National Park Service.