

SAMPLE LOCATION	OWNER OR WATER USER	DATE OF COLLECTION (mo./yr.)	FIELD DETERMINATIONS					CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (as N)	SILICA (SiO ₂)	TRITIUM (pCi/liter)	REFERENCES	REMARKS				
			TEMPERATURE °C	pH	SPECIFIC CONDUCTANCE (µmhos/cm @ 25°C)	BICARBONATE (HCO ₃)	CARBONATE (CO ₃)													DISSOLVED SOLIDS (see note)			
22N/66E-31a1	—	6-50	32	—	309	141	0	—	24	7.4	34	—	—	—	—	—	—	1	—				
15N/67E-13aa	—	6-20	12	7.5	460	200	0	288	39	17	36	2.9	0.4	0.7	34	—	—	—	—				
15N/66E-25a1	—	6-50	12	—	112	63	0	—	10	3.6	12*	—	—	—	—	—	—	1	—				
18N/67E-1e1	—	7-64	12	8.1	975	264	0	—	47	26	122*	—	—	—	—	—	—	1	—				
17N/66E-3ab	—	6-80	9	7.2	28	12	0	—	2.2	1.7	2.4	0.4	0.09	0.04	8.0	—	—	—	McCoy Creek				
17N/66E-15ac	—	6-80	6	7.5	23	8	0	3	2.0	0.7	1.0	0.4	0	0.07	5.0	—	—	—	Taft Creek				
16N/66E-13a1	—	7-64	13	7.8	287	172	0	—	38	7.8	15*	—	—	—	—	—	—	—	1	spring			
16N/66E-34ba	Cleve Reh	6-80	12	7.6	84	44	0	35	13	3.2	1.8	0.4	0.04	0.03	8.0	—	—	—	—	Cleve Creek			
16N/67E-3aa	Rogers Reh	6-80	16	7.3	580	360	0	285	56	27	20	1.5	0.2	0.11	20	—	—	—	—	—			
16N/67E-27d	—	7-64	16	8.0	911	521	0	—	58	30	105*	—	—	—	—	—	—	—	—	—			
15N/66E-21ac	Bastian Reh	6-80	11	8.2	315	204	0	147	53	7.0	3.7	0.5	0.04	0.30	8.0	—	—	—	—	—	Bastian Spring		
15N/66E-8b	—	7-64	12	8.0	626	346	0	—	65	33	21	—	—	—	—	—	—	—	—	—			
14N/66-24a1	—	7-64	12	7.8	499	220	0	—	48	26	22*	—	—	—	—	—	—	—	—	—			
14N/67-16dd	—	6-80	13	7.4	445	176	0	236	27	11	43	2.7	0.4	0.53	23	—	—	—	—	—			
13N/67E-15d1	—	6-50	18	—	161	84	0	—	17	3.3	14*	—	—	—	—	—	—	—	—	—			
13N/67E-18d	—	7-64	12	8.2	395	204	0	—	39	22	12*	—	—	—	—	—	—	—	—	—			
13N/67E-33d	—	7-64	14	8.5	750	239	16	—	61	14	82*	—	—	—	—	—	—	—	—	—			
13N/67E-35d	—	7-64	23	—	158	88	0	—	18	1.0	16*	—	—	—	—	—	—	—	—	—			
13N/66E-17eb	—	6-80	10	7.5	48	28	0	—	4.6	2.6	2.5	0.4	0.1	0.05	8.5	—	—	—	—	—	Pine Creek		
13N/66E-32ob	—	6-80	6.5	7.2	37	20	0	9	3.2	1.7	1.8	0.5	0.4	—	9.5	—	—	—	—	—	Williams Creek		
12N/67E-2a	—	6-80	23	7.9	114	88	0	—	20	2.7	9.2	1.1	0.04	0.22	22	—	—	—	—	—	flowing well		
11N/66E-35ob	—	6-80	12	7.7	335	220	0	160	30	21	7.9	1.3	0.4	0.8	16	—	—	—	—	—	flowing well		
11N/67E-1e1	—	—	12	—	374	220	0	—	58	12	8.2*	—	—	—	—	—	—	—	—	—	—		
11N/67E-1bc	Shoeshone Reh	6-80	11	7.5	305	196	0	144	47	10	3.8	0.7	0.2	0.5	11	—	—	—	—	—	—		
11N/67E-1c	—	6-80	9	7.6	305	200	0	—	48	8.8	1.4	0.4	0.1	0.07	4	—	—	—	—	—	—	Shallow Spring	
11N/68E-31cd	—	6-80	14	7.6	440	196	0	—	42	27	6.8	2.0	0.1	8.2	22	—	—	—	—	—	—		
9N/67E-27a1	—	7-69	21	7.9	236	122	0	—	24	6.8	18*	—	—	—	—	—	—	—	—	—	—	1	spring

*Sodium plus potassium.

References:

1. Rush and Kazmi, 1965

NOTE: SAMPLES FOR WATER QUALITY ANALYSIS COLLECTED BY FUGRO NATIONAL EXCEPT WHERE NOTED. ALL ANALYSIS USED IN mg/l EXCEPT WHERE NOTED. FUGRO NATIONAL ANALYSIS FOR DISSOLVED SOLIDS CALCULATED USING THE RESIDUE - ON - EVAPORATION AT 180 °C METHOD. OTHER AUTHORS MAY USE DIFFERENT METHODS. NEVADA LOCATIONS BASED ON MT. DIABLO BASELINE AND UTAH LOCATIONS BASED ON SALT LAKE BASELINE AND MERIDIAN.

WATER QUALITY ANALYSES SPRING VALLEY, NEVADA	
MX SITING INVESTIGATION DEPARTMENT OF THE AIR FORCE - 6MO	TABLE C1-9
FUGRO NATIONAL, INC.	

SPRING VALLEY

Table 3. Inorganic Water Chemistry.

<u>Time of Collection</u>	2000	2000
<u>Date of Collection</u>	9/14/80	9/18/80
<u>Constituent</u>	<u>Concentration, in mg/l</u>	
Calcium	24.5	24.5
Magnesium	12.2	12.2
Sodium	9.5	9.6
Potassium	3.3	3.3
Alkalinity as HCO ₃	132.4	133.4
Chloride	11.7	12.1
Sulfate	8.8	8.7
Nitrate as N	1.0	1.1
Fluoride	0.29	0.25
Silica	57	57
Total Dissolved Solids, (Residue at 180° C)	188	193
Hardness as CaCO ₃	113	112
Arsenic	0.004	0.006
Copper	< 0.01	< 0.01
Iron	0.03	0.01
Manganese	< 0.01	< 0.01
Mercury	< 0.0002	< 0.0002
Zinc	0.01	0.01

Analyst: Cranmer Engineering, Inc., Grass Valley California.

Tritium Analysis

H ³ (pCi/l ± 2σ)	0±100	0±100
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Analyst: James M. Montgomery, Inc., Pasadena, California.