

Table 3. Inorganic Water Chemistry, Garden Valley.

<u>Time of Collection</u>	1500	2000	0100	0600	1100	0900	---
<u>Date of Collection</u>	11/5/80	11/5/80	11/6/80	11/6/80	11/6/80	11/9/80	12/2/80
<u>Constituent</u>	<u>Concentration, in mg/l</u>						
Calcium	38.5	38.5	38.5	39.3	39.3	39.3	38.
Magnesium	7.76	7.86	7.86	7.95	7.86	7.76	9.1
Sodium	26.9	25.1	24.8	24.6	24.4	24.4	22.
Potassium	1.73	1.66	1.66	1.70	1.73	1.66	2.1
Alkalinity as HCO ₃	179	177	178	180	178	182	180
Chloride	9.5	9.5	9.5	9.3	9.1	8.9	9.0
Sulfate	27	27	25	25	27	25	20
Nitrate as N	0.25	0.25	0.27	0.25	0.25	0.40	0.36
Fluoride	0.33	0.33	0.32	0.33	0.33	0.33	< 0.1
Silica	27	27	27	28	28	27	24
Dissolved Solids (calculated)	227	224	223	226	226	224	214

Analyst: Desert Research Institute, Reno, Nevada; except sample of 12/2/80 which was analyzed by Sierra Environmental Monitoring, Reno, Nevada.

SAMPLE LOCATION	OWNER OR WATER USER	DATE OF COLLECTION (mo-yr)	FIELD DETERMINATIONS					DISSOLVED SOLIDS (see note)	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)													
3N/56E-23aa	—	6-80	13	7.6	305	220	0	181	48	17	7.3	1.0	11	2.8	0.6	0.08	16	—	Southfork, Creek	
3N/56E-32a	—	6-80	13	8.0	205	156	0	156	42	5.7	11	1.2	13	4.1	0.7	0.07	22	—	Cottonwood Creek	
3N/57E-16c	—	6-80	13	8.0	375	272	0	275	56	24	15	2.6	18	5.6	0.3	0.44	30	—	Cherry Creek	
3N/57E-16d	—	6-80	11	6.7	430	327	0	—	67	24	17	3.4	21	10	0.3	0.9	32	—	Spring well	
3N/58E-16a	Uhalde	6-80	8	7.1	365	249	0	—	34	30	10	4.1	15	6.1	0.3	1.4	32	—	Heizer Well	
2N/56E-14c	Clva Corp.	6-80	—	7.4	430	205	0	—	44	10	22	2	28	8.5	0.1	2.7	14	—	watergap	
2N/59E-17a	—	6-80	19	8.4	445	273	0	234	40	25	15	2.6	21	7.1	0.3	0.28	28	—	spring	
1N/57E-20	—	6-80	12	7.0	660	390	0	—	111	20	43	3.9	78	18	1.3	0.0	66	—	Freiburg Mine Well	
1N/57E-20	Gold Cr-k. Crp	6-80	—	7.6	445	386	0	—	100	17	30	3	55	15	0.7	3.4	23	—	South Uhalde Well	
1S/57E-2bb	Uhalde	6-80	—	8.0	305	205	0	—	11	3.4	90	4	21	8.5	0.8	9.4	23	—		

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
GARDEN VALLEY, NEVADA

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - BMO

TABLE
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FUGRO NATIONAL, INC.