(Concentration of dissolved constituents, dissolved solids, and hardness given in milligrams per liter, unless otherwise noted)

Site No.	Sampling site	Date of collection	Temperature (°C)	Discharge (ft^3/s)	Silica (SiO_2)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3) + Nitrite (NO_2) as N	Suspended Solids	Dissolved Solids	Specific conductance (micromhos at 25°C)	Alkalinity	Acidity	Hardness as $CaCO_3$: Calcium, Magnesium	Hardness as $CaCO_3$: Noncarbonate	Sodium-adsorption ratio	pH	Boron (B)	Total Iron (Fe)	Dissolved Fe	Manganese (Mn)	Aluminum (Al)	Source
S-1	MUDDY CREEK NEAR EMERY	7-1-49		126		35	20	5.1	1.2	198	11	9.1	2.1			182	380			170	0	0.2		.14					USGS
		10-22-57		34						234	0	26					444			197	5		8.0						USGS
		5-22-58		254	8.0	32	23	?	?	202	7.0	14	3.5			231	357			174	0		8.3						USGS
		7-29-58		88	6.8	44	24	?	?	259	0	11	3.0			227	404			210	0		8.1						USGS
		10-4-71	10.0	17													410												USGS
		11-4-71	1.5	18													420												USGS
		12-1-71	0	12													440												USGS
		1-4-72	0	9.8													420												USGS
		2-2-72	0	8.4													460												USGS
		3-3-72	1.0	11													440												USGS
		4-5-72	1.5	152													450												USGS
		6-6-72	15.0	63													360												USGS
		8-9-72	23.0	34													340												USGS
		8-31-72	14.5	16													375												USGS
		10-13-72	8.0	10													390												USGS
		11-29-72	0	8.1													520												USGS
		12-28-72	0	10													330												USGS
		1-16-73	0	8.3													460												USGS
		2-14-73	0	8.0													480												USGS
		3-19-73	1.5	9.5													460												USGS
		4-11-73	7.0	12													340												USGS
		5-7-73	6.0	53													350												USGS
		5-31-73	12.5	147													400												USGS
		6-14-73	11.5	201													380												USGS
		7-12-73	13.0	80													400												USGS
		8-15-73	17.0	52													440												USGS
		10-16-74	9.0	14													400												USGS
		11-26-74	0	15													500												USGS
		12-17-74	0	11													460												USGS
		1-27-75	0	8.4													500												USGS
		3-6-75	0	8.9													450												USGS
		4-2-75	1.5	23													520												USGS
		5-6-75	8.5	12													420												USGS
		6-3-75	8.0	163													400												USGS
		6-30-75	11.0	149													370												USGS
		7-23-75	16.5		5.5	42	23	5.5	0.6	223	0	12	1.8	0.50		203	365			200	17	0.2	8.2	0					USGS
		8-5-75	15.5	48													380												USGS
		8-26-75	18.0	50	5.3	39	24	6.4	0.7	223	0	13	2.5	0.37		203	415			200	14	0.2	8.3	.02					USGS
		9-9-75	11.5	39													380												USGS
		11-19-75	0.5	10	5.4	47	26	10	0.6	241	14	21	3.5	0.53		250	410			230	4	0.3	8.5	.03	.02		.005	.01	USGS
S-2	Muddy Creek at Highway 10 (D-21-6) 36 bbb near Emery	7-23-75	28.0	0.5	10	180	100	180	5.1	309	0	940	24	.08		1590	2100			860	610	2.7	7.8	.19					USGS
		8-26-75	25.5	0.06	8.8	270	140	240	6.2	271	0	1400	29	.02		2230	2860			1300	1000	3.0	7.9	.29					USGS
		11-19-75	3.0	0.6	8.3	240	110	170	3.5	350	0	1000	20	.02		1730	2240			1100	770	2.3	8.2	.17	.10		.05	.02	USGS
		3-31-76	10.0	1.0	6.8	160	85	120	3.5	301	0	690	17	.01		1230	1720			750	500	1.9	7.7	.13					USGS
S-3	Unnamed canal at Highway 10 at (D-21-7) 30ccd about 5 miles below point of diversion at site S-1 near Emery	7-23-75	18.0	0.2	5.6	43	23	7.3	0.7	230	0	15	1.7	.44		212	385			200	13	0.2	8.2	.006					USGS
		8-26-75		dry																									

APPENDIX B
TABLE 1
Sheet 1 of 4

SAMPLING & ANALYSES OF SURFACE WATER