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ANALYTICAL AND STATISTICAL RESULTS FOR 486 WATER SAMPLES
FROM THE 1° X 2° RICHFIELD QUADRANGLE, UTAH

by

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INTRODUCTION

A regional hydrogeochemical survey was conducted in the Richfield 1° x 2° quadrangle during the summer of 1978. Samples from 142 stream waters and 344 ground waters, springs, and wells, were collected and analyzed for calcium, magnesium, sodium, potassium, lithium, silica, alkalinity, sulfate, chloride, fluoride, zinc, copper, molybdenum, arsenic, and uranium. Specific conductance, pH, and temperatures also were measured. The Richfield 1° x 2° quadrangle is in west-central Utah, latitude 38° to 39° west, and longitude 112° to 114° north. The sample analyses and some statistical data for these analyses are presented in this report.

SAMPLE COLLECTION TECHNIQUES

Water samples were collected in acid-rinsed polyethylene bottles. At each locality, a 60-mL sample was collected and filtered through a 0.45- μ m filter and acidified with reagent-grade concentrated nitric acid to pH <2. An untreated 0.5-L sample was also taken

ANALYTICAL TECHNIQUES

Water temperature was measured at the sample site. The pH of the sample was measured on the day of collection. The remaining analyses were determined at U.S. Geological Survey laboratories in Denver, Colorado.

Calcium, magnesium, sodium, potassium, lithium, zinc, copper, molybdenum, arsenic, and uranium were determined using the 0.45- μ m filtered and acidified sample. Alkalinity, as bicarbonate, sulfate, chloride, fluoride, silica, and specific conductance were determined using the untreated sample. The analytical methods used for the analysis of each constituent are shown in table 1.

Table 1.--Analytical methods used for water analyses, Richfield 2° quadrangle, Utah

| Constituent | Method | Reference |
|------------------------------|---|--|
| Alkalinity----- | Gran's plot potentiometric titration----- | Orion Research, Inc. (1975). |
| Sulfate----- | Ion chromatography----- | Smee and Hall (1978). |
| Chloride----- | ---do----- | Do. |
| Fluoride----- | ---do----- | Do. |
| Calcium----- | Flame atomic absorption spectrophotometry----- | Perkin-Elmer Corp. (1976). |
| Magnesium----- | ---do----- | Do. |
| Sodium----- | ---do----- | Do. |
| Potassium----- | ---do----- | Do. |
| Lithium----- | ---do----- | Do. |
| Silica----- | Colorimetric, molybdate blue----- | Brown, Skougstad, and Fishman (1970, p. 138-140). |
| ω Copper----- | Flameless atomic absorption spectrophotometry----- | Perkin-Elmer Corp. (1977). |
| Zinc----- | ---do----- | Do. |
| Molybdenum----- | ---do----- | Miller and Ficklin (1976). |
| Arsenic----- | ---do----- | Aruscavage (1977). |
| Uranium----- | Fluorimetric----- | McHugh (1979). |
| Specific conductance----- | Conductivity bridge----- | Brown, Skougstad, and Fishman (1970, p. 28-29). |

RESULTS

Analytical data for each sample locality, as well as the locality's latitude and longitude, in degrees, minutes, and seconds are shown in table 2.

The letters, SW or GW, in the sample identifications in table 2 denote whether the sample is stream water or ground water.

Table 3 is a summary of the chemical analyses in table 2, and shows each constituent with its minimum and maximum values, mean, geometric mean, standard deviation, and geometric deviation.

Correlation coefficients of the logarithm (base 10) of concentrations of ions are shown in table 4.

Ionic solutions, theoretically, are electrically neutral. Therefore, accuracy of analyses can be checked by comparing the sums of the charges for cations against anions.

The results of the charge balance of the cations and anions for the 486 samples in this report are, except for nine samples, within 10 percent of each other. Most of the nine samples are less than 20 percent, the maximum being 25 percent.

Eleven samples were collected during subsequent summers, and were analyzed again in duplicate. Table 5 shows the relative standard deviation obtained for these eleven samples by constituents.

TABLE 2.--WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH

| Sample | LATITUDE | LONGITUDE | CA(mg/L) | MG(mg/L) | NA(mg/L) | K(mg/L) | LI(ug/L) | SI02(mg/L) | ALK(mg/L) | SO4(mg/L) | CL(mg/L) |
|----------|----------|-----------|----------|----------|----------|---------|----------|------------|-----------|-----------|----------|
| 0002GW31 | 38 26 3 | 113 16 53 | 150.0 | 45.0 | 75 | <1.0 | 60 | 31 | 200.0 | 57.0 | 290.00 |
| 0003GW22 | 38 51 56 | 113 59 34 | 70.0 | 33.0 | 3 | 2.0 | 30 | 12 | 200.0 | 160.0 | 24.00 |
| 0016GW24 | 38 35 37 | 113 15 55 | 43.0 | 11.0 | 25 | 1.0 | 15 | 24 | 150.0 | 20.0 | 78.00 |
| 0031SW33 | 38 1 14 | 113 59 47 | 9.0 | 1.0 | 4 | 2.0 | 3 | 28 | 23.0 | 6.1 | 4.80 |
| 0032SW33 | 38 1 10 | 113 59 2 | 12.0 | 3.0 | 6 | 2.0 | 5 | 32 | 42.0 | 6.6 | 8.30 |
| 0033SW33 | 38 2 30 | 113 59 45 | 45.0 | 9.0 | 5 | <1.0 | 3 | 32 | 150.0 | 15.0 | 25.00 |
| 0034SW33 | 38 0 16 | 113 49 17 | 68.0 | 20.0 | 16 | 1.0 | 10 | 68 | 290.0 | 19.0 | 36.00 |
| 0035SW33 | 38 3 14 | 113 47 7 | 68.0 | 12.0 | 8 | 2.0 | 11 | 56 | 130.0 | 140.0 | 21.00 |
| 0049SW33 | 38 6 47 | 113 52 37 | 78.0 | 24.0 | 25 | <1.0 | 8 | 26 | 230.0 | 54.0 | 93.00 |
| 0050SW33 | 38 9 21 | 113 53 50 | 75.0 | 18.0 | 20 | 1.0 | 10 | 24 | 220.0 | 57.0 | 53.00 |
| 0054SW33 | 38 13 2 | 113 53 11 | 83.0 | 26.0 | 38 | 1.0 | 5 | 28 | 320.0 | 54.0 | 120.00 |
| 0055SW33 | 38 13 47 | 113 50 50 | 63.0 | 11.0 | 5 | 1.0 | 7 | 22 | 200.0 | 12.0 | 33.00 |
| 0059SW32 | 38 21 48 | 113 55 54 | 110.0 | 45.0 | 190 | 3.0 | 17 | 54 | 440.0 | 100.0 | 250.00 |
| 0072GW42 | 38 16 49 | 112 55 38 | 78.0 | 32.0 | 10 | 3.0 | 20 | 30 | 200.0 | 70.0 | 130.00 |
| 0125GW23 | 38 34 52 | 113 57 23 | 94.0 | 36.0 | 26 | <1.0 | 19 | 12 | 250.0 | 170.0 | 59.00 |
| 0130GW23 | 38 32 14 | 113 58 3 | 73.0 | 27.0 | 5 | <1.0 | 7 | 10 | 240.0 | 89.0 | 15.00 |
| 0133GW23 | 38 32 52 | 113 51 28 | 68.0 | 15.0 | 48 | 6.0 | 40 | 64 | 220.0 | 25.0 | 250.00 |
| 0138GW23 | 38 31 22 | 113 54 43 | 98.0 | 20.0 | 23 | 2.0 | 10 | 48 | 350.0 | 27.0 | 94.00 |
| 0140GW23 | 38 31 7 | 113 56 25 | 60.0 | 15.0 | 5 | 2.0 | 6 | 56 | 260.0 | 3.9 | 18.00 |
| 0141GW23 | 38 31 7 | 113 56 11 | 68.0 | 14.0 | 5 | 2.0 | 6 | 48 | 230.0 | 5.7 | 25.00 |
| 0144GW23 | 38 32 32 | 113 59 8 | 93.0 | 46.0 | 10 | <1.0 | 13 | 14 | 360.0 | 75.0 | 32.00 |
| 0151GW23 | 38 44 5 | 113 46 20 | 73.0 | 42.0 | 65 | 2.0 | 21 | 14 | 260.0 | 100.0 | 340.00 |
| 0154GW23 | 38 31 53 | 113 51 23 | 100.0 | 27.0 | 33 | 2.0 | 35 | 62 | 320.0 | 23.0 | 91.00 |
| 0165GW23 | 38 35 38 | 113 45 8 | 20.0 | 8.0 | 23 | 5.0 | 70 | 52 | 130.0 | 7.2 | 29.00 |
| 0167GW33 | 38 2 33 | 113 37 20 | 390.0 | 87.0 | 90 | 2.0 | 80 | 40 | 210.0 | 900.0 | 290.00 |
| 0168GW33 | 38 2 2 | 113 35 55 | 48.0 | 10.0 | 33 | 3.0 | 28 | 34 | 180.0 | 26.0 | 52.00 |
| 0174GW33 | 38 2 16 | 113 32 22 | 140.0 | 29.0 | 95 | 1.0 | 180 | 40 | 250.0 | 49.0 | 330.00 |
| 0180GW33 | 38 3 56 | 113 33 4 | 190.0 | 69.0 | 340 | 19.0 | 290 | 60 | 320.0 | 140.0 | 1,510.00 |
| 0182GW33 | 38 2 9 | 113 31 5 | 100.0 | 23.0 | 50 | <1.0 | 22 | 58 | 410.0 | 28.0 | 140.00 |
| 0193GW33 | 38 3 59 | 113 30 37 | 110.0 | 24.0 | 58 | 2.0 | 21 | 58 | 410.0 | 25.0 | 140.00 |
| 0232GW12 | 38 59 42 | 112 55 34 | 80.0 | 32.0 | 120 | 2.0 | 60 | 18 | 330.0 | 52.0 | 1,000.00 |
| 0238GW12 | 38 46 11 | 112 49 52 | 90.0 | 21.0 | 220 | 8.0 | 130 | 64 | 140.0 | 98.0 | 830.00 |
| 0240GW12 | 38 46 13 | 112 52 15 | 63.0 | 20.0 | 100 | 6.0 | 70 | 52 | 200.0 | 59.0 | 350.00 |
| 0241GW12 | 38 45 43 | 112 52 9 | 53.0 | 17.0 | 130 | 3.0 | 60 | 42 | 160.0 | 38.0 | 280.00 |
| 0242GW13 | 38 42 17 | 112 57 8 | 43.0 | 14.0 | 35 | 5.0 | 50 | 54 | 130.0 | 35.0 | 110.00 |
| 0246GW13 | 38 39 18 | 112 52 12 | 45.0 | 14.0 | 35 | 5.0 | 34 | 50 | 140.0 | 33.0 | 120.00 |
| 0250GW13 | 38 43 22 | 112 46 22 | 23.0 | 14.0 | 58 | 9.0 | 120 | 90 | 190.0 | 40.0 | 66.00 |
| 0251GW13 | 38 36 18 | 112 53 37 | 160.0 | 62.0 | 150 | 15.0 | 720 | 80 | 260.0 | 8.2 | 510.00 |
| 0252GW13 | 38 36 7 | 112 52 45 | 58.0 | 24.0 | 70 | 6.0 | 90 | 48 | 190.0 | 42.0 | 110.00 |
| 0253GW13 | 38 36 32 | 112 56 35 | 50.0 | 17.0 | 33 | 8.0 | 80 | 76 | 170.0 | 40.0 | 48.00 |
| 0254GW13 | 38 30 17 | 113 0 0 | 95.0 | 82.0 | 370 | 10.0 | 3,600 | 30 | 280.0 | 6.0 | 14070.00 |
| 0263GW13 | 38 30 27 | 112 51 8 | 120.0 | 25.0 | 1,620 | 260.0 | 21,000 | 46 | 300.0 | 7.8 | 3,640.00 |
| 0295GW31 | 38 19 36 | 113 12 49 | 95.0 | 24.0 | 78 | 2.0 | 70 | 34 | 260.0 | 32.0 | 180.00 |
| 0296GW31 | 38 20 22 | 113 13 11 | 150.0 | 55.0 | 120 | 1.0 | 100 | 54 | 470.0 | 25.0 | 270.00 |
| 0300GW31 | 38 17 58 | 113 12 28 | 130.0 | 32.0 | 95 | 2.0 | 50 | 32 | 260.0 | 47.0 | 290.00 |

TABLE 2.--WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--CONTINUED

| Sample | F(mg/L) | ZN(ug/L) | CU(ug/L) | MO(ug/L) | AS(ug/L) | U(ug/L) | SP. COND. (umhos/cm) | pH | TEMP.(C) |
|----------|---------|----------|----------|----------|----------|---------|-------------------------|------|----------|
| 0002GW31 | .20 | 2.9 | 2.1 | 3.3 | 5.4 | 2.7 | 1,480 | 7.40 | 17.0 |
| 0003GW22 | 1.50 | 2.6 | .6 | 7.6 | .5 | 2.3 | 650 | 7.55 | 14.5 |
| 0016GW24 | .22 | 3.3 | 1.5 | 1.9 | .5 | .5 | 410 | 7.50 | 13.0 |
| 0031SW33 | .16 | 2.0 | 1.3 | 1.2 | 4.5 | .6 | 86 | 6.85 | 6.5 |
| 0032SW33 | .31 | 1.4 | 1.4 | 1.0 | .5 | .5 | 141 | 7.50 | 5.5 |
| 0033SW33 | .18 | 2.4 | 1.3 | 1.8 | .5 | .6 | 320 | 8.10 | 13.5 |
| 0034SW33 | .22 | 2.4 | 1.0 | 1.3 | 4.7 | 2.0 | 540 | 7.90 | 11.0 |
| 0035SW33 | .71 | 2.4 | 1.3 | 1.9 | .5 | 1.1 | 515 | 7.40 | 15.0 |
| 0049SW33 | .28 | 1.0 | 1.2 | 3.8 | .5 | 5.4 | 600 | 8.05 | 5.0 |
| 0050SW33 | .36 | 1.0 | 1.6 | 5.0 | .5 | 6.8 | 550 | 8.30 | 6.0 |
| 0054SW33 | .61 | .9 | 1.5 | 3.8 | .5 | 16.0 | 750 | 7.90 | 14.5 |
| 0055SW33 | .49 | .7 | 1.1 | 1.7 | .5 | 1.8 | 597 | 8.40 | 15.0 |
| 0059SW22 | 1.70 | 1.2 | 3.3 | 8.0 | 31.0 | 17.0 | 1,750 | 8.20 | 19.5 |
| 0072GW42 | .46 | 8.8 | .6 | 8.6 | 4.9 | 8.6 | 715 | 8.25 | 12.0 |
| 0125GW23 | 2.50 | 4.6 | 1.3 | 2.0 | .5 | 1.9 | 1,105 | 7.79 | 10.5 |
| 0130GW23 | .21 | 1.6 | 1.4 | 1.9 | .5 | 1.1 | 610 | 8.10 | 11.0 |
| 0133GW23 | .15 | 2.5 | 1.3 | <1.0 | 4.9 | 10.2 | 720 | 7.45 | 10.5 |
| 0138GW23 | .12 | 2.3 | 1.0 | 1.2 | 2.3 | 5.0 | 745 | 7.45 | 11.5 |
| 0140GW23 | .12 | 2.4 | 1.0 | <1.0 | 1.3 | 1.5 | 455 | 7.50 | 11.0 |
| 0141GW23 | .39 | 2.6 | 1.1 | <1.0 | 2.3 | 2.4 | 362 | 7.60 | 14.0 |
| 0144GW23 | .10 | 2.9 | 1.5 | 3.0 | .5 | 1.5 | 780 | 7.65 | 10.5 |
| 0151GW23 | .09 | 20.0 | .6 | <1.0 | .5 | 1.2 | 990 | 7.90 | 16.0 |
| 0154GW23 | .14 | 3.2 | 1.3 | <1.0 | 3.8 | 7.3 | 880 | 7.40 | 12.0 |
| 0165GW23 | 1.10 | 29.0 | 6.8 | 1.4 | 35.0 | 4.3 | 275 | 8.10 | 16.5 |
| 0167GW33 | 1.40 | 1.9 | 13.0 | 10.0 | 1.9 | 6.5 | 2,700 | 7.30 | 15.5 |
| 0168GW33 | 3.50 | 1.2 | .8 | <1.0 | 1.9 | 1.4 | 455 | 7.40 | 19.0 |
| 0174GW33 | 10.00 | 4.9 | 3.6 | 1.0 | 12.0 | 4.9 | 1,280 | 7.05 | 15.5 |
| 0180GW33 | .91 | 3.0 | 14.0 | 6.6 | 20.0 | 7.6 | 2,950 | 7.70 | 23.0 |
| 0182GW33 | .35 | 3.4 | 1.8 | <1.0 | 8.1 | 6.0 | 870 | 7.35 | 18.5 |
| 0183GW33 | .35 | 2.2 | 1.0 | 1.6 | 11.0 | 6.0 | 885 | 7.55 | 16.5 |
| 0232GW12 | .30 | 9.3 | 1.5 | 1.5 | 1.2 | 7.0 | 1,290 | 7.35 | 16.0 |
| 0238GW12 | 2.80 | 2.5 | 3.6 | 8.8 | 12.0 | 5.8 | 1,600 | 7.60 | 20.5 |
| 0240GW12 | 3.60 | 2.0 | 1.0 | 4.6 | 24.0 | 2.0 | 900 | 7.95 | 18.0 |
| 0241GW12 | 3.30 | 2.6 | .6 | 2.2 | 16.0 | .8 | 720 | 7.75 | 23.5 |
| 0242GW13 | .53 | 13.0 | 4.1 | 2.8 | 15.0 | 2.3 | 470 | 7.85 | 13.5 |
| 0246GW13 | .46 | 4.3 | 1.3 | 2.4 | 8.7 | 2.0 | 485 | 7.35 | 15.0 |
| 0250GW13 | 5.40 | 3.3 | 4.6 | 4.2 | 65.0 | 1.8 | 510 | 9.30 | 15.0 |
| 0251GW13 | 1.70 | 2.3 | 5.5 | 5.3 | 260.0 | 1.9 | 2,100 | 7.15 | 17.0 |
| 0252GW13 | .46 | 40.0 | 1.1 | 8.3 | 65.0 | 2.3 | 740 | 7.65 | 19.5 |
| 0253GW13 | 5.00 | 20.0 | 1.4 | 3.8 | 190.0 | <.2 | 530 | 7.85 | 19.0 |
| 0254GW13 | .38 | 51.0 | 1.5 | 7.7 | 11.0 | <.2 | 3,200 | 7.60 | 19.0 |
| 0263GW13 | 2.50 | 24.0 | 13.0 | 3.0 | 740.0 | <.2 | 10,000 | 6.05 | 24.0 |
| 0299GW31 | .17 | 9.1 | .5 | <1.0 | 2.8 | 7.2 | 920 | 7.55 | 15.5 |
| 0296CW31 | 3.40 | 3.7 | 1.8 | 1.5 | 11.0 | 4.1 | 1,460 | 7.45 | 13.0 |
| 0300GW31 | 2.00 | 10.2 | 1.6 | 1.6 | 7.9 | 13.0 | 1,200 | 7.89 | 18.0 |

Table 2--WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | LATITUDE | LONGITUDE | CA(mg/L) | MG(mg/L) | NA(mg/L) | K(mg/L) | LI(ug/L) | SI02(mg/L) | ALK(mg/L) | S04(mg/L) | CL(mg/L) |
|----------|----------|-----------|----------|----------|----------|---------|----------|------------|-----------|-----------|----------|
| 0301GW31 | 38 22 39 | 113 20 53 | 60.0 | 20.0 | 48 | 3.0 | 35 | 120 | 140.0 | 29.0 | 140.00 |
| 0304GW34 | 38 10 59 | 113 27 25 | 120.0 | 40.0 | 45 | 4.0 | 26 | 38 | 170.0 | 220.0 | 150.00 |
| 0307GW34 | 38 12 53 | 113 28 5 | 130.0 | 32.0 | 78 | 3.0 | 31 | 34 | 190.0 | 130.0 | 260.00 |
| 0312GW33 | 38 12 43 | 113 31 27 | 230.0 | 120.0 | 230 | 3.0 | 60 | 20 | 270.0 | 880.0 | 420.00 |
| 0318GW33 | 38 12 23 | 113 34 2 | 130.0 | 27.0 | 110 | 2.0 | 50 | 52 | 310.0 | 25.0 | 240.00 |
| 0321GW33 | 38 10 43 | 113 32 13 | 310.0 | 96.0 | 190 | 5.0 | 90 | 16 | 180.0 | 220.0 | 880.00 |
| 0322GW34 | 38 7 23 | 113 25 48 | 90.0 | 20.0 | 48 | 1.0 | 18 | 48 | 270.0 | 33.0 | 70.00 |
| 0325GW34 | 38 7 12 | 113 29 13 | 130.0 | 46.0 | 87 | 1.2 | 37 | 50 | 340.0 | 100.0 | 150.00 |
| 0338GW33 | 38 7 12 | 113 37 55 | 500.0 | 96.0 | 160 | 9.3 | 70 | 48 | 320.0 | 190.0 | 1,130.00 |
| 0367SW34 | 38 5 35 | 113 29 46 | 110.0 | 25.0 | 130 | <1.0 | 34 | 56 | 331.0 | 48.0 | 240.00 |
| 0377SW32 | 38 19 43 | 113 38 22 | 9.0 | 2.0 | 3 | <1.0 | 4 | 14 | 19.0 | 4.4 | 8.30 |
| 0378SW32 | 38 17 40 | 113 38 36 | 9.0 | 5.0 | 5 | <1.0 | 4 | 16 | 40.0 | 7.9 | 9.90 |
| 0381GW32 | 38 18 26 | 113 54 59 | 48.0 | 13.0 | 20 | <1.0 | 7 | 40 | 230.0 | 15.0 | 3.50 |
| 0386GW32 | 38 20 25 | 113 37 14 | 19.0 | 6.0 | 5 | <1.0 | 5 | 14 | 74.0 | 6.7 | 13.00 |
| 0388GW32 | 38 21 33 | 113 36 23 | 65.0 | 7.0 | 5 | <1.0 | 7 | 10 | 215.0 | 4.9 | 4.30 |
| 0389GW32 | 38 20 15 | 113 36 40 | 78.0 | 13.0 | 8 | <1.0 | 4 | 10 | 271.0 | 5.2 | 5.70 |
| 0390SW32 | 38 20 1 | 113 36 10 | 35.0 | 12.0 | 6 | <1.0 | 2 | 8 | 167.0 | 6.2 | 8.60 |
| 0435GW32 | 38 19 53 | 113 33 43 | 70.0 | 19.0 | 18 | <1.0 | 9 | 14 | 262.0 | 27.0 | 39.00 |
| 0438SW32 | 38 18 22 | 113 34 25 | 58.0 | 8.0 | 8 | 2.0 | 4 | 20 | 189.0 | 12.0 | 13.00 |
| 0439GW32 | 38 18 42 | 113 36 21 | 80.0 | 11.0 | 6 | <1.0 | 3 | 8 | 233.0 | 8.7 | 7.50 |
| 0440GW31 | 38 18 47 | 113 29 27 | 130.0 | 44.0 | 90 | 1.0 | 20 | 24 | 157.0 | 130.0 | 280.00 |
| 0441SW32 | 38 17 45 | 113 39 35 | 45.0 | 9.0 | 13 | 2.0 | 4 | 20 | 124.0 | 24.0 | 39.00 |
| 0443GW33 | 38 3 45 | 113 38 42 | 70.0 | 14.0 | 20 | 5.0 | 31 | 42 | 178.0 | 39.0 | 45.00 |
| 0445GW33 | 38 1 44 | 113 39 58 | 250.0 | 44.0 | 48 | 2.0 | 60 | 30 | 183.0 | 620.0 | 170.00 |
| 0447GW33 | 38 2 5 | 113 40 8 | 360.0 | 49.0 | 70 | 2.0 | 80 | 28 | 201.0 | 880.0 | 180.00 |
| 0451GW33 | 38 3 42 | 113 43 13 | 65.0 | 14.0 | 23 | 5.0 | 18 | 40 | 172.0 | 27.0 | 81.00 |
| 0454GW33 | 38 5 57 | 113 44 55 | 33.0 | 7.0 | 13 | 2.0 | 8 | 36 | 77.0 | 14.0 | 25.00 |
| 0455GW33 | 38 5 50 | 113 44 54 | 30.0 | 7.0 | 13 | 3.0 | 10 | 40 | 73.0 | 17.0 | 29.00 |
| 0460GW33 | 38 0 4 | 113 47 15 | 100.0 | 28.0 | 33 | 9.0 | 30 | 74 | 316.0 | 34.0 | 77.00 |
| 0463GW32 | 38 17 15 | 113 35 52 | 5.0 | 5.0 | 5 | <1.0 | 4 | 14 | 45.0 | 8.1 | 12.00 |
| 0470GW32 | 38 17 35 | 113 32 49 | 10.0 | 29.0 | 13 | <1.0 | 20 | 10 | 263.0 | 27.0 | 49.00 |
| 0473GW32 | 38 15 23 | 113 31 58 | 160.0 | 48.0 | 45 | 2.0 | 20 | 18 | 147.0 | 420.0 | 79.00 |
| 0477GW34 | 38 14 50 | 113 26 25 | 140.0 | 40.0 | 105 | 1.0 | 90 | 38 | 250.0 | 48.0 | 300.00 |
| 0481GW33 | 38 12 17 | 113 47 43 | 300.0 | 93.0 | 230 | 5.0 | 60 | 58 | 281.0 | 320.0 | 1,000.00 |
| 0482SW33 | 38 11 35 | 113 50 6 | 58.0 | 7.0 | 5 | <1.0 | <2 | 12 | 112.0 | 75.0 | 7.00 |
| 0483SW33 | 38 13 0 | 113 50 27 | 63.0 | 11.0 | 10 | <1.0 | 3 | 16 | 178.0 | 18.0 | 24.00 |
| 0484SW33 | 38 12 54 | 113 50 17 | 38.0 | 10.0 | 8 | <1.0 | <2 | 14 | 154.0 | 11.0 | 13.00 |
| 0486SW33 | 38 10 18 | 113 49 21 | 60.0 | 8.0 | 15 | 1.0 | 3 | 20 | 132.0 | 21.0 | 71.00 |
| 0488SW33 | 38 10 6 | 113 49 47 | 23.0 | 5.0 | 8 | <1.0 | <2 | 18 | 83.0 | 7.5 | 7.70 |
| 0489GW33 | 38 10 3 | 113 50 15 | 60.0 | 11.0 | 10 | <1.0 | 5 | 10 | 191.0 | 12.0 | 7.50 |
| 0490SW33 | 38 10 6 | 113 49 25 | 58.0 | 8.0 | 10 | 1.0 | 5 | 18 | 143.0 | 12.0 | 33.00 |
| 0491GW33 | 38 8 31 | 113 49 37 | 45.0 | 8.0 | 8 | <1.0 | 5 | 8 | 173.0 | 13.0 | 7.00 |
| 0492GW33 | 38 9 2 | 113 49 51 | 39.0 | 7.0 | 5 | <1.0 | 5 | 10 | 125.0 | 15.0 | 6.70 |
| 0494GW33 | 38 7 48 | 113 48 2 | 88.0 | 21.0 | 25 | 1.0 | 20 | 16 | 260.0 | 94.0 | 29.00 |
| 0495SW33 | 38 7 43 | 113 47 49 | 65.0 | 12.0 | 15 | 2.0 | 5 | 12 | 241.0 | 19.0 | 18.00 |

Table 2.--WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | F(mg/L) | ZN(ug/L) | CU(ug/L) | MO(ug/L) | AS(ug/L) | U(ug/L) | SP.COND. (µmhos/cm) | pH | TEMP.(C) |
|----------|---------|----------|----------|----------|----------|---------|------------------------|------|----------|
| 0301GW31 | .40 | 5.0 | 1.2 | 2.2 | 9.5 | 1.6 | 680 | 7.65 | 15.0 |
| 0304GW34 | 1.50 | 50.0 | 2.7 | 2.3 | 4.0 | 3.8 | 1,160 | 7.60 | 15.0 |
| 0307GW34 | .34 | 83.0 | 1.5 | 2.6 | .9 | 3.6 | 1,150 | 7.50 | 16.0 |
| 0312GW33 | 13.00 | 3.8 | 5.1 | 9.2 | 1.6 | 4.6 | 3,300 | 8.05 | 16.0 |
| 0319GW33 | 2.50 | 5.3 | 1.6 | 2.0 | 4.8 | 34.0 | 1,080 | 7.35 | 14.0 |
| 0321GW33 | .70 | 2.5 | 2.5 | 5.4 | 7.5 | 8.2 | 3,650 | 7.85 | 18.0 |
| 0322GW34 | .17 | 13.0 | 4.4 | 1.7 | 8.5 | 3.8 | 775 | 7.40 | 16.5 |
| 0325GW34 | 1.00 | 12.0 | 1.4 | 1.4 | 5.3 | 8.6 | 1,220 | 7.30 | 10.0 |
| 0339GW33 | .21 | 4.8 | 3.6 | 5.3 | 10.0 | 38.0 | 4,200 | 7.20 | 13.5 |
| 0367SW34 | .42 | 3.9 | 1.2 | 1.1 | 14.2 | 7.7 | 930 | 7.90 | 8.0 |
| 0377SW32 | 1.50 | 4.1 | 1.6 | <1.0 | 1.4 | <.2 | 88 | 7.70 | 7.5 |
| 0378SW32 | .15 | 4.0 | 1.9 | <1.0 | 1.3 | <.2 | 125 | 7.80 | 8.0 |
| 0381GW32 | .49 | 2.3 | 1.2 | 1.1 | 4.2 | 5.0 | 460 | 7.50 | 9.5 |
| 0386GW32 | .13 | 6.4 | .6 | <1.0 | 1.4 | <.2 | 176 | 7.90 | 8.0 |
| 0388GW32 | .13 | 3.1 | 5.0 | <1.0 | .5 | <.2 | 365 | 7.05 | 7.5 |
| 0389GW32 | .10 | 1.3 | .5 | <1.0 | .6 | .7 | 460 | 7.75 | 11.5 |
| 0390SW32 | .13 | 1.6 | .6 | <1.0 | .8 | .5 | 460 | 7.80 | 9.5 |
| 0435GW32 | .21 | 1.9 | .5 | <1.0 | .5 | 1.0 | 600 | 7.60 | 9.5 |
| 0438SW32 | .20 | 1.9 | .4 | <1.0 | 1.0 | 1.0 | 380 | 8.15 | 17.0 |
| 0439GW32 | .07 | 2.1 | .6 | <1.0 | .6 | .4 | 520 | 7.30 | 8.0 |
| 0440GW31 | .11 | 2.5 | 1.5 | <1.0 | 3.5 | 3.6 | 1,400 | 7.50 | 14.0 |
| 0441SW32 | .08 | 7.5 | .6 | <1.0 | 1.6 | <.2 | 270 | 7.40 | 11.0 |
| 0443GW33 | 2.50 | 6.8 | .6 | 4.8 | 2.9 | 2.7 | 595 | 7.75 | 13.0 |
| 0445GW33 | .70 | 23.0 | 2.5 | 4.3 | .8 | 1.4 | 1,680 | 7.10 | 12.0 |
| 0447GW33 | .70 | 14.0 | 3.9 | 5.4 | 2.6 | 4.1 | 2,150 | 7.50 | 11.0 |
| 0451GW33 | 2.10 | 4.0 | .7 | 2.2 | 2.0 | 10.0 | 630 | 6.95 | 11.5 |
| 0454GW33 | 2.10 | 4.7 | 1.2 | <1.0 | 1.1 | 1.3 | 249 | 7.30 | 10.0 |
| 0455GW33 | 2.50 | 4.8 | 1.5 | 3.8 | 1.2 | 1.7 | 248 | 7.45 | 10.0 |
| 0460GW33 | .25 | 3.7 | 1.2 | 3.3 | 8.5 | 7.6 | 880 | 7.90 | 15.0 |
| 0463GW32 | .05 | 3.9 | 1.6 | <1.0 | 1.9 | <.2 | 130 | 7.10 | 8.5 |
| 0470GW32 | .29 | 6.2 | .6 | <1.0 | 2.3 | .8 | 650 | 7.50 | 11.0 |
| 0473GW32 | .68 | 8.5 | 2.1 | 2.0 | 1.2 | 1.6 | 1,340 | 7.35 | 10.5 |
| 0477GW34 | 1.60 | 10.0 | 1.3 | 1.2 | 3.1 | 12.0 | 1,525 | 7.10 | 12.5 |
| 0481GW33 | 5.00 | 7.7 | 1.5 | 9.9 | 9.5 | 4.4 | 3,900 | 7.50 | 14.0 |
| 0482SW33 | .10 | 2.9 | .6 | <1.0 | .2 | .8 | 224 | 8.30 | 11.0 |
| 0483SW33 | .34 | 2.0 | .7 | 2.4 | .4 | 3.1 | 370 | 8.40 | 19.0 |
| 0484SW33 | .23 | 2.5 | .7 | <1.0 | .3 | 1.4 | 306 | 8.40 | 13.0 |
| 0486SW33 | .94 | 4.2 | .6 | <1.0 | .8 | 1.9 | 355 | 7.80 | 13.0 |
| 0488SW33 | .60 | 2.5 | .7 | <1.0 | .3 | .7 | 194 | 7.80 | 14.0 |
| 0489GW33 | .73 | 5.0 | .7 | 1.3 | .2 | 3.8 | 345 | 7.55 | 19.0 |
| 0490SW33 | .31 | 5.0 | 1.1 | <1.0 | .2 | .6 | 325 | 8.40 | 21.5 |
| 0491GW33 | .10 | 7.5 | 1.0 | 2.5 | .2 | 2.7 | 330 | 7.40 | 9.0 |
| 0492GW33 | .10 | 2.3 | .4 | 2.4 | .4 | 2.6 | 272 | 7.65 | 9.0 |
| 0494GW33 | .34 | 8.7 | 1.2 | 2.8 | 1.1 | 3.2 | 770 | 7.80 | 12.0 |
| 0495SW33 | .23 | 2.5 | .8 | 1.2 | 1.7 | 1.1 | 485 | 8.50 | 25.0 |

Table 2.- WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | LATITUDE | LONGITUDE | CA(mg/L) | MG(mg/L) | NA(mg/L) | K(mg/L) | LI(ug/L) | SI02(mg/L) | ALK(mg/L) | SO4(mg/L) | CL(mg/L) |
|----------|----------|-----------|----------|----------|----------|---------|----------|------------|-----------|-----------|----------|
| 0497GW33 | 38 5 45 | 113 47 26 | 98.0 | 21.0 | 18 | <1.0 | 30 | 30 | 187.0 | 270.0 | 2.20 |
| 0501GW33 | 38 14 22 | 113 49 27 | 70.0 | 14.0 | 30 | <1.0 | 8 | 40 | 322.0 | 22.0 | 45.00 |
| 0503SW33 | 38 11 55 | 113 53 8 | 63.0 | 14.0 | 15 | <1.0 | <2 | 16 | 195.0 | 21.0 | 25.00 |
| 0504SW33 | 38 11 16 | 113 53 3 | 58.0 | 9.0 | 13 | <1.0 | 2 | 14 | 190.0 | 13.0 | 17.00 |
| 0506SW33 | 38 14 7 | 113 53 14 | 53.0 | 13.0 | 13 | <1.0 | 2 | 20 | 232.0 | 15.0 | 13.00 |
| 0507GW33 | 38 14 6 | 113 53 18 | 53.0 | 13.0 | 15 | <1.0 | <2 | 18 | 226.0 | 17.0 | 13.00 |
| 0509GW42 | 38 24 16 | 112 48 12 | 13.0 | 3.0 | 8 | 1.0 | 4 | 16 | 44.0 | 11.0 | 15.00 |
| 0510GW33 | 38 1 3 | 113 50 57 | 68.0 | 16.0 | 20 | 1.0 | 20 | 48 | 272.0 | 16.0 | 44.00 |
| 0512GW33 | 38 0 55 | 113 57 59 | 35.0 | 7.0 | 8 | 2.0 | 10 | 28 | 141.0 | 4.4 | 8.50 |
| 0513GW33 | 38 2 38 | 113 57 56 | 19.0 | 4.0 | 8 | <1.0 | 5 | 28 | 58.0 | 6.5 | 14.00 |
| 0515GW33 | 38 7 49 | 113 50 57 | 53.0 | 8.0 | 8 | <1.0 | 8 | 20 | 165.0 | 18.0 | 13.00 |
| 0516SW33 | 38 7 45 | 113 52 17 | 53.0 | 10.0 | 18 | <1.0 | 4 | 26 | 207.0 | 19.0 | 22.00 |
| 0517SW33 | 38 9 2 | 113 52 7 | 50.0 | 7.0 | 8 | <1.0 | 4 | 16 | 167.0 | 11.0 | 8.50 |
| 0518SW33 | 38 8 49 | 113 52 38 | 63.0 | 10.0 | 13 | <1.0 | 5 | 20 | 206.0 | 22.0 | 13.00 |
| 0519GW33 | 38 9 55 | 113 52 1 | 48.0 | 6.0 | 8 | <1.0 | 6 | 22 | 192.0 | 5.8 | 4.20 |
| 0520GW33 | 38 11 17 | 113 51 55 | 40.0 | 5.0 | 5 | <1.0 | 3 | 16 | 151.0 | 18.0 | 11.00 |
| 0521GW32 | 38 15 28 | 113 53 6 | 43.0 | 8.0 | 13 | <1.0 | 2 | 20 | 180.0 | 10.0 | 11.00 |
| 0522GW32 | 38 16 0 | 113 53 29 | 45.0 | 11.0 | 18 | <1.0 | 5 | 44 | 225.0 | 10.0 | 18.00 |
| 0523SW32 | 38 15 55 | 113 53 24 | 33.0 | 7.0 | 10 | <1.0 | 3 | 34 | 131.0 | 8.9 | 14.00 |
| 0524GW32 | 38 16 52 | 113 52 16 | 35.0 | 5.0 | 10 | <1.0 | <2 | 36 | 127.0 | 5.3 | 10.00 |
| 0525SW32 | 38 16 30 | 113 55 12 | 50.0 | 10.0 | 15 | 1.0 | 3 | 32 | 212.0 | 11.0 | 26.00 |
| 0526SW32 | 38 17 5 | 113 54 34 | 65.0 | 8.0 | 15 | <1.0 | 6 | 30 | 188.0 | 12.0 | 23.00 |
| 0527GW32 | 38 17 41 | 113 53 41 | 48.0 | 6.0 | 13 | <1.0 | 5 | 30 | 188.0 | 15.0 | 17.00 |
| 0532GW32 | 38 18 34 | 113 55 27 | 70.0 | 12.0 | 23 | <1.0 | 5 | 44 | 173.0 | 22.0 | 44.00 |
| 0533SW32 | 38 19 18 | 113 51 4 | 53.0 | 11.0 | 23 | <1.0 | 8 | 58 | 230.0 | 27.0 | 26.00 |
| 0535GW32 | 38 20 6 | 113 52 15 | 50.0 | 11.0 | 25 | <1.0 | 6 | 44 | 224.0 | 9.9 | 25.00 |
| 0536GW32 | 38 19 54 | 113 52 34 | 73.0 | 10.0 | 38 | <1.0 | 10 | 46 | 319.0 | 10.0 | 43.00 |
| 0537GW32 | 38 18 38 | 113 52 42 | 20.0 | 3.0 | 13 | 11.0 | 3 | 42 | 100.0 | 4.3 | 5.80 |
| 0547SW42 | 38 22 32 | 112 47 17 | 18.0 | 3.0 | 8 | 1.0 | 4 | 20 | 51.0 | 10.0 | 10.00 |
| 0548SW42 | 38 21 53 | 112 47 32 | 18.0 | 4.0 | 10 | 1.0 | 10 | 22 | 70.0 | 4.8 | 9.10 |
| 0569SW42 | 38 18 42 | 112 50 29 | 28.0 | 6.0 | 10 | 1.0 | 9 | 22 | 108.0 | 7.9 | 14.00 |
| 0570GW42 | 38 17 58 | 112 50 2 | 95.0 | 51.0 | 30 | 1.0 | 20 | 20 | 311.0 | 140.0 | 55.00 |
| 0577GW34 | 38 4 14 | 113 25 35 | 48.0 | 24.0 | 68 | 6.0 | 60 | 26 | 117.0 | 6.5 | 220.00 |
| 0580GW34 | 38 3 49 | 113 27 25 | 73.0 | 10.0 | 38 | <1.0 | 40 | 38 | 189.0 | 19.0 | 75.00 |
| 0581GW34 | 38 1 12 | 113 27 17 | 48.0 | 15.0 | 190 | 6.0 | 110 | 42 | 179.0 | 130.0 | 260.00 |
| 0583GW33 | 38 13 8 | 113 40 15 | 18.0 | 4.0 | 10 | <1.0 | 4 | 16 | 55.0 | 14.0 | 12.00 |
| 0584GW32 | 38 17 0 | 113 38 30 | 18.0 | 4.0 | 10 | <1.0 | 4 | 16 | 57.0 | 7.5 | 8.80 |
| 0586SW32 | 38 14 49 | 113 50 54 | 38.0 | 9.0 | 15 | <1.0 | <2 | 22 | 185.0 | 8.6 | 17.00 |
| 0587GW42 | 38 20 38 | 112 47 27 | 58.0 | 8.0 | 30 | 1.0 | 26 | 24 | 195.0 | 31.0 | 65.00 |
| 0590GW42 | 38 22 19 | 112 49 57 | 13.0 | 3.0 | 8 | 1.0 | 4 | 20 | 41.0 | 6.5 | 8.00 |
| 0669GW24 | 38 40 42 | 113 18 17 | 45.0 | 35.0 | 296 | 14.0 | 140 | 36 | 146.0 | 140.0 | 596.00 |
| 0691GW23 | 38 32 13 | 113 41 24 | 30.0 | 13.0 | 15 | 1.0 | 5 | 12 | 157.0 | 9.5 | 30.00 |
| 0739GW32 | 38 25 48 | 113 50 37 | 30.0 | 13.0 | 15 | 1.0 | 5 | 12 | 157.0 | 9.5 | 31.00 |
| 0741GW32 | 38 25 33 | 113 51 33 | 48.0 | 28.0 | 28 | 1.0 | 11 | 14 | 272.0 | 15.0 | 58.00 |
| 0743GW32 | 38 24 44 | 113 50 10 | 80.0 | 39.0 | 58 | <1.0 | 12 | 44 | 350.0 | 75.0 | 210.00 |

Table 2.-- WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | F (mg/L) | ZN (ug/L) | CU (ug/L) | MO (ug/L) | AS (ug/L) | U (ug/L) | SP.COND. (umhos/cm) | pH | TEMP. (C) |
|----------|----------|-----------|-----------|-----------|-----------|----------|------------------------|------|-----------|
| 0497GW33 | 1.20 | 23.0 | 1.5 | 3.4 | .2 | <.2 | 820 | 7.10 | 11.0 |
| 0501GW33 | .20 | 7.6 | 1.3 | 3.0 | 11.4 | 2.7 | 630 | 7.30 | 11.5 |
| 0503SW33 | .39 | 2.8 | 1.1 | 4.2 | .2 | 4.2 | 422 | 8.40 | 12.0 |
| 0504SW33 | .16 | 2.1 | .5 | 1.5 | .5 | 2.6 | 389 | 8.30 | 15.0 |
| 0506SW33 | .09 | 1.6 | .2 | 1.7 | 1.0 | 3.6 | 441 | 8.05 | 10.0 |
| 0507GW33 | .09 | 2.6 | .7 | 3.1 | 1.4 | 3.6 | 450 | 7.55 | 9.0 |
| 0509GW42 | .10 | 5.0 | .8 | <1.0 | .3 | .3 | 141 | 6.80 | 7.0 |
| 0510GW33 | .16 | 8.8 | 1.0 | 1.3 | 7.7 | 3.2 | 580 | 7.45 | 9.0 |
| 0512GW33 | .09 | 2,890.0 | 3.6 | <1.0 | .9 | 1.8 | 280 | 7.85 | 14.0 |
| 0513GW33 | .16 | 33.0 | 1.0 | <1.0 | 2.1 | .7 | 180 | 7.35 | 16.5 |
| 0515GW33 | .13 | 3.2 | .5 | 3.7 | .7 | 3.5 | 375 | 8.05 | 11.0 |
| 0516SW33 | .19 | 3.0 | .6 | 1.5 | 1.2 | 2.4 | 440 | 8.25 | 12.0 |
| 0517SW33 | .39 | 2.4 | 1.0 | 1.1 | .3 | .9 | 350 | 8.05 | 12.0 |
| 0518SW33 | .29 | 2.6 | 1.2 | 3.7 | .3 | 3.0 | 435 | 8.20 | 14.5 |
| 0519GW33 | .22 | 3.6 | .7 | 4.0 | .3 | 2.5 | 332 | 7.80 | 10.5 |
| 0520GW33 | .07 | 2.4 | .3 | 2.0 | .8 | 3.6 | 270 | 8.15 | 9.5 |
| 0521GW32 | .06 | 2.9 | .8 | 1.6 | .4 | 1.8 | 360 | 7.30 | 7.0 |
| 0522GW32 | .11 | 3.5 | .5 | <1.0 | 1.7 | 1.9 | 405 | 7.65 | 10.0 |
| 0523SW32 | .11 | 2.6 | .6 | <1.0 | 1.3 | 1.5 | 268 | 8.15 | 15.0 |
| 0524GW32 | .12 | 3.6 | .5 | <1.0 | 1.0 | 1.2 | 252 | 7.55 | 8.5 |
| 0525SW32 | .13 | 2.0 | .5 | <1.0 | 1.9 | 2.0 | 435 | 8.45 | 20.0 |
| 0526SW32 | .19 | 1.9 | .5 | <1.0 | 3.0 | 1.8 | 430 | 8.30 | 20.0 |
| 0527GW32 | .18 | 2.5 | .6 | <1.0 | 1.9 | 2.2 | 375 | 7.35 | 12.5 |
| 0532GW32 | .26 | 2.3 | .7 | <1.0 | 3.7 | 5.4 | 580 | 7.45 | 9.0 |
| 0533SW32 | .15 | 3.3 | 1.3 | 1.0 | 5.3 | 1.8 | 585 | 8.05 | 16.5 |
| 0535GW32 | .11 | 3.9 | .5 | <1.0 | 2.0 | 2.2 | 465 | 7.50 | 9.5 |
| 0536GW32 | .23 | 2.6 | .5 | <1.0 | 4.8 | 5.2 | 635 | 7.70 | 12.0 |
| 0537GW32 | .08 | 3.3 | 1.6 | 1.3 | 1.9 | <.2 | 210 | 7.40 | 13.0 |
| 0547SW42 | .23 | 2.9 | 1.0 | <1.0 | .4 | .5 | 130 | 7.90 | 10.5 |
| 0548SW42 | .43 | 1.5 | 1.9 | <1.0 | .3 | 1.0 | 169 | 6.90 | 7.5 |
| 0569SW42 | 1.10 | 3.3 | <1.0 | 3.9 | .3 | 8.4 | 260 | 8.10 | 19.0 |
| 0570GW42 | .76 | 3.3 | 1.1 | 7.1 | 1.0 | 2.9 | 1,040 | 7.55 | 12.0 |
| 0577GW34 | .27 | 2.6 | 2.8 | 2.3 | 7.4 | 4.9 | 850 | 8.90 | 16.5 |
| 0580GW34 | .19 | 4.3 | .6 | <1.0 | 3.4 | 5.2 | 655 | 7.15 | 19.5 |
| 0581GW34 | 1.00 | 4.6 | 3.4 | 2.4 | 36.0 | 3.5 | 1,260 | 8.10 | 16.5 |
| 0583GW33 | .07 | 3.1 | 2.4 | <1.0 | 4.4 | <.2 | 165 | 7.30 | 18.0 |
| 0584GW32 | .12 | 1.9 | 1.3 | 2.5 | 4.3 | <.2 | 170 | 7.25 | 11.0 |
| 0586SW32 | .27 | 15.0 | .8 | 1.9 | 1.0 | 2.0 | 358 | 8.20 | 14.0 |
| 0587GW42 | 1.80 | 3.9 | 1.3 | 94.0 | 1.5 | 740.0 | 540 | 7.10 | 12.5 |
| 0590GW42 | .11 | 2.5 | 1.0 | 1.3 | .4 | <.2 | 120 | 7.65 | 9.5 |
| 0669GW24 | .39 | 40.0 | 3.1 | 45.0 | 21.0 | 1.5 | 2,400 | 8.05 | 15.0 |
| 0691GW23 | .12 | 3.9 | 1.6 | 1.2 | 2.8 | .3 | 365 | 7.75 | 18.0 |
| 0739GW32 | .10 | 1.8 | 2.7 | 1.5 | 2.7 | .2 | 369 | 7.75 | 12.0 |
| 0741GW32 | .29 | 4.7 | 1.1 | 1.6 | 4.9 | 2.9 | 392 | 7.55 | 21.0 |
| 0743GW32 | .39 | 4.7 | <1.0 | 3.0 | 5.6 | 8.4 | 280 | 7.40 | 12.0 |

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Table 2.--WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | LATITUDE | LONGITUDE | CA(mg/L) | MG(mg/L) | NA(mg/L) | K(mg/L) | LI(ug/L) | SI02(mg/L) | ALK(mg/L) | S04(mg/L) | CL(mg/L) |
|----------|----------|-----------|----------|----------|----------|---------|----------|------------|-----------|-----------|----------|
| 0753GW32 | 38 23 38 | 113 57 45 | 103.0 | 18.0 | 28 | 1.0 | 12 | 46 | 267.0 | 14.0 | 77.00 |
| 0755GW32 | 38 28 6 | 113 58 44 | 67.0 | 19.0 | 15 | <1.0 | 4 | 42 | 293.0 | 9.0 | 20.00 |
| 0764GW32 | 38 29 45 | 113 56 41 | 60.0 | 17.0 | 15 | 2.0 | 5 | 42 | 254.0 | 10.0 | 18.00 |
| 0767GW32 | 38 16 48 | 113 49 15 | 95.0 | 16.0 | 35 | 1.0 | 9 | 32 | 344.0 | 67.0 | 38.00 |
| 0769SW32 | 38 15 52 | 113 51 1 | 53.0 | 8.0 | 15 | <1.0 | <2 | 18 | 184.0 | 11.0 | 22.00 |
| 0770GW32 | 38 16 33 | 113 52 6 | 33.0 | 5.0 | 10 | <1.0 | 4 | 22 | 117.0 | 4.4 | 7.50 |
| 0773GW32 | 38 20 23 | 113 50 22 | 50.0 | 4.0 | 55 | 2.0 | 15 | 28 | 235.0 | 8.6 | 64.00 |
| 0775GW32 | 38 22 5 | 113 52 5 | 65.0 | 13.0 | 18 | 2.0 | 10 | 42 | 206.0 | 12.0 | 66.00 |
| 0777GW32 | 38 20 52 | 113 54 16 | 110.0 | 21.0 | 43 | <1.0 | 15 | 48 | 343.0 | 36.0 | 79.00 |
| 0779GW32 | 38 19 29 | 113 53 27 | 45.0 | 5.0 | 20 | 1.0 | 7 | 36 | 166.0 | 12.0 | 19.00 |
| 0782GW32 | 38 19 52 | 113 55 43 | 75.0 | 6.0 | 25 | 1.0 | 15 | 20 | 265.0 | 10.0 | 35.00 |
| 0786GW31 | 38 20 22 | 113 18 33 | 78.0 | 20.0 | 45 | 7.0 | 36 | 36 | 173.0 | 17.0 | 150.00 |
| 0794GW31 | 38 19 2 | 113 16 52 | 380.0 | 104.0 | 105 | 8.0 | 220 | 12 | 240.0 | 856.0 | 250.00 |
| 0795GW31 | 38 29 12 | 113 29 50 | 65.0 | 34.0 | 23 | 2.0 | 12 | 8 | 286.0 | 22.0 | 53.00 |
| 0796GW31 | 38 29 2 | 113 29 50 | 63.0 | 30.0 | 18 | 1.0 | 10 | 6 | 254.0 | 7.2 | 31.00 |
| 0801GW24 | 38 30 51 | 113 16 34 | 14.0 | 3.0 | 10 | <1.0 | 5 | 10 | 43.0 | 9.4 | 11.00 |
| 0803GW32 | 38 23 45 | 113 30 59 | 110.0 | 37.0 | 33 | 1.0 | 19 | 38 | 275.0 | 31.0 | 150.00 |
| 0805GW32 | 38 24 3 | 113 30 9 | 160.0 | 67.0 | 100 | 1.0 | 32 | 36 | 306.0 | 120.0 | 420.00 |
| 0806SW24 | 38 32 26 | 113 15 51 | 20.0 | 4.0 | 10 | 1.0 | 8 | 16 | 59.0 | 6.6 | 18.00 |
| 0807GW24 | 38 31 12 | 113 15 20 | 100.0 | 25.0 | 65 | 2.0 | 15 | 26 | 254.0 | 52.0 | 130.00 |
| 0808GW24 | 38 31 38 | 113 13 54 | 83.0 | 20.0 | 55 | <1.0 | 22 | 18 | 225.0 | 34.0 | 130.00 |
| 0812GW24 | 38 30 58 | 113 6 57 | 63.0 | 12.0 | 60 | 6.0 | 20 | 10 | 202.0 | 26.0 | 100.00 |
| 0814GW24 | 38 31 28 | 113 6 12 | 55.0 | 16.0 | 60 | 8.0 | 15 | 22 | 176.0 | 41.0 | 150.00 |
| 0816GW24 | 38 35 26 | 113 1 37 | 130.0 | <1.0 | 1,590 | 41.0 | 1,000 | 44 | 420.0 | 1,320.0 | 1,770.00 |
| 0818GW24 | 38 33 59 | 113 11 17 | 120.0 | 47.0 | 70 | 3.0 | 70 | 28 | 195.0 | 55.0 | 320.00 |
| 0821GW24 | 38 35 33 | 113 10 56 | 120.0 | 25.0 | 93 | 7.0 | 60 | 30 | 109.0 | 83.0 | 310.00 |
| 0829GW24 | 38 35 15 | 113 13 19 | 70.0 | 11.0 | 88 | 15.0 | 40 | 24 | 251.0 | 34.0 | 180.00 |
| 0831GW34 | 38 7 37 | 113 0 12 | 63.0 | 10.0 | 28 | 5.0 | 14 | 32 | 183.0 | 19.0 | 91.00 |
| 0833GW34 | 38 10 42 | 113 4 10 | 13.0 | 2.0 | 65 | 2.0 | 14 | 36 | 82.0 | 28.0 | 36.00 |
| 0839GW34 | 38 10 24 | 113 12 11 | 70.0 | 10.0 | 390 | 54.0 | 1,500 | 72 | 324.0 | 260.0 | 190.00 |
| 0841GW34 | 38 6 13 | 113 13 24 | 80.0 | 28.0 | 141 | 6.0 | 60 | 52 | 165.0 | 190.0 | 150.00 |
| 0846GW34 | 38 4 40 | 113 5 13 | 25.0 | 6.0 | 40 | 5.0 | 18 | 52 | 155.0 | 8.9 | 11.00 |
| 0857GW34 | 38 4 16 | 113 14 31 | 85.0 | 29.0 | 78 | 7.0 | 50 | 58 | 153.0 | 180.0 | 110.00 |
| 0858GW34 | 38 1 32 | 113 16 24 | 83.0 | 46.0 | 50 | 6.0 | 30 | 32 | 256.0 | 294.0 | 55.00 |
| 0859GW34 | 38 3 23 | 113 19 31 | 75.0 | 70.0 | 85 | 7.0 | 60 | 42 | 233.0 | 322.0 | 68.00 |
| 0860GW34 | 38 1 27 | 113 21 54 | 60.0 | 65.0 | 85 | 6.0 | 90 | 38 | 212.0 | 246.0 | 102.00 |
| 0861GW34 | 38 5 58 | 113 17 19 | 170.0 | 190.0 | 320 | 9.0 | 110 | 46 | 230.0 | 878.0 | 350.00 |
| 0862GW34 | 38 10 38 | 113 15 30 | 85.0 | 47.0 | 100 | 8.0 | 90 | 44 | 176.0 | 75.0 | 250.00 |
| 0863GW34 | 38 10 13 | 113 21 12 | 110.0 | 42.0 | 73 | 5.0 | 70 | 16 | 188.0 | 160.0 | 184.00 |
| 0864GW34 | 38 13 2 | 112 54 14 | 110.0 | 20.0 | 178 | 15.0 | 200 | 32 | 221.0 | 400.0 | 83.00 |
| 0868GW43 | 38 9 21 | 112 54 4 | 73.0 | 12.0 | 48 | 4.0 | 21 | 28 | 295.0 | 22.0 | 81.00 |
| 0873GW43 | 38 10 27 | 112 50 13 | 50.0 | 17.0 | 30 | 4.0 | 25 | 26 | 195.0 | 19.0 | 58.00 |
| 0875GW43 | 38 13 2 | 112 50 8 | 38.0 | 12.0 | 38 | 5.0 | 14 | 36 | 191.0 | 40.0 | 43.00 |
| 0886GW43 | 38 1 31 | 112 50 5 | 65.0 | 15.0 | 15 | 4.0 | 3 | 38 | 238.0 | 8.3 | 22.00 |
| 0887GW43 | 38 0 37 | 112 52 8 | 90.0 | 21.0 | 33 | <1.0 | 3 | 38 | 395.0 | 23.0 | 35.00 |

Table 2.--WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | F(mg/L) | ZN(ug/L) | CU(ug/L) | MO(ug/L) | AS(ug/L) | U(ug/L) | SP.COND. (umhos/cm) | pH | TEMP.(C) |
|----------|---------|----------|----------|----------|----------|---------|------------------------|------|----------|
| 0753GW32 | .10 | 1.7 | <1.0 | 1.3 | 1.6 | 1.8 | 785 | 7.65 | 21.0 |
| 0755GW32 | .07 | 65.0 | <1.0 | <1.0 | 1.9 | 1.5 | 500 | 7.10 | 18.0 |
| 0764GW32 | .15 | 2.2 | 3.3 | <1.0 | 2.3 | 1.8 | 460 | 7.75 | 13.0 |
| 0767GW32 | .15 | 3.1 | .7 | 2.3 | 2.6 | 16.0 | 724 | 7.05 | 10.0 |
| 0769SW32 | .15 | 1.2 | <1.0 | <1.0 | .6 | 1.6 | 386 | 8.30 | 10.5 |
| 0770GW32 | .09 | 3.0 | <1.0 | <1.0 | 1.2 | 1.5 | 245 | 7.50 | 9.0 |
| 0773GW32 | .13 | 2.2 | .6 | 1.0 | 6.3 | 14.0 | 495 | 7.40 | 10.5 |
| 0775GW32 | .08 | 1.8 | .4 | <1.0 | 1.9 | 5.1 | 531 | 7.60 | 13.5 |
| 0777GW32 | .24 | 1.6 | 1.0 | 2.1 | 6.4 | 4.0 | 860 | 7.40 | 17.0 |
| 0779GW32 | .33 | 1.2 | 2.1 | <1.0 | 3.3 | 3.1 | 355 | 7.75 | 11.0 |
| 0782GW32 | .14 | 4.7 | 1.0 | <1.0 | 4.3 | 5.4 | 520 | 7.75 | 13.0 |
| 0786GW31 | .15 | 16.0 | 3.2 | 1.6 | 6.1 | 2.9 | 205 | 7.55 | 13.5 |
| 0794GW31 | .67 | 3.1 | 4.8 | 12.0 | 7.6 | <.2 | 2,650 | 7.60 | 16.5 |
| 0795GW31 | .10 | 2.8 | 2.0 | 3.8 | 2.2 | 1.6 | 650 | 7.75 | 9.5 |
| 0796GW31 | .13 | 1.6 | .8 | <1.0 | 2.0 | .2 | 550 | 7.90 | 19.5 |
| 0801GW24 | .06 | 2.3 | 2.0 | <1.0 | .5 | <.2 | 141 | 7.45 | 5.5 |
| 0803GW32 | .13 | 2.5 | 1.5 | 1.2 | 3.5 | 5.7 | 890 | 7.50 | 14.0 |
| 0805GW32 | .50 | 1.9 | 2.2 | 2.5 | 6.1 | 4.2 | 1,780 | 7.80 | 14.0 |
| 0806SW24 | .13 | 1.3 | 2.4 | <1.0 | 1.3 | <.2 | 189 | 7.90 | 20.0 |
| 0807GW24 | .18 | 2.0 | 7.2 | <1.0 | 2.9 | 3.7 | 940 | 7.80 | 20.0 |
| 0809GW24 | .26 | 1.3 | 2.0 | 1.9 | 3.5 | 3.6 | 815 | 7.40 | 16.5 |
| 0812GW24 | .25 | 2.2 | 3.9 | 2.8 | 2.7 | 11.0 | 690 | 7.85 | 13.5 |
| 0814GW24 | .55 | 1.3 | 1.5 | 4.4 | 4.2 | 5.7 | 720 | 7.70 | 16.5 |
| 0816GW24 | 3.10 | 28.0 | 19.0 | 7.4 | 240.0 | 22.0 | 7,700 | 7.75 | 14.0 |
| 0818GW24 | .66 | 16.0 | 1.6 | 1.2 | 5.5 | 2.3 | 1,360 | 8.15 | 18.5 |
| 0821GW24 | .50 | 72.0 | .6 | 1.3 | 8.4 | 3.8 | 1,240 | 7.65 | 16.5 |
| 0829GW24 | .20 | 71.0 | 2.6 | 1.6 | 5.5 | 13.0 | 850 | 7.10 | 14.5 |
| 0831GW34 | .22 | 28.0 | 1.3 | 1.7 | 5.4 | 1.1 | 540 | 6.50 | 12.0 |
| 0833GW34 | 1.00 | 20.0 | 4.4 | 1.7 | 17.0 | .4 | 340 | 8.70 | 18.0 |
| 0839GW34 | 4.70 | 1.7 | 9.5 | <1.0 | 97.0 | <.2 | 2,200 | 7.55 | 66.0 |
| 0841GW34 | .20 | 130.0 | 5.2 | 1.6 | 6.4 | 5.1 | 1,780 | 7.90 | 14.5 |
| 0846GW34 | .34 | 170.0 | 5.5 | 2.0 | 9.9 | 2.6 | 355 | 8.05 | 20.0 |
| 0857GW34 | .26 | 47.0 | 4.3 | 1.7 | 6.0 | 3.5 | 1,020 | 7.90 | 20.0 |
| 0858GW34 | .37 | 109.0 | 2.4 | 1.8 | 5.5 | 2.3 | 950 | 7.60 | 16.5 |
| 0859GW34 | .41 | 51.0 | 3.7 | 2.5 | 8.1 | 3.9 | 1,220 | 7.70 | 16.5 |
| 0860GW34 | .95 | 55.0 | 3.0 | 7.5 | 20.0 | 5.7 | 1,180 | 7.70 | 12.0 |
| 0861GW34 | .67 | 40.0 | 7.2 | 8.0 | 6.4 | 4.8 | 3,200 | 7.40 | 15.5 |
| 0862GW34 | .36 | 44.0 | 6.8 | 4.5 | 10.0 | 4.4 | 1,320 | 7.65 | 18.0 |
| 0863GW34 | .50 | 580.0 | 15.0 | 7.9 | 1.8 | 1.5 | 1,350 | 7.75 | 24.0 |
| 0864GW34 | 2.60 | 5.8 | 4.5 | 1.1 | 22.0 | .3 | 1,430 | 7.65 | 33.5 |
| 0868GW43 | .24 | 1.9 | .7 | 1.3 | 6.6 | 2.3 | 680 | 7.30 | 15.5 |
| 0873GW43 | .31 | 1.7 | .8 | 2.0 | 5.3 | 1.0 | 539 | 6.90 | 11.0 |
| 0875GW43 | 1.00 | 1.4 | 1.0 | 3.5 | 4.5 | 7.6 | 655 | 7.85 | 11.5 |
| 0886GW43 | .10 | 2.4 | .5 | <1.0 | 2.2 | 1.4 | 500 | 7.40 | 13.5 |
| 0887GW43 | .24 | 5.5 | .7 | <1.0 | 5.0 | 2.0 | 720 | 7.30 | 13.5 |

Table 2.-- WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | LATITUDE | LONGITUDE | CA(mg/L) | MG(mg/L) | NA(mg/L) | K(mg/L) | LI(ug/L) | SI02(mg/L) | ALK(mg/L) | SO4(mg/L) | CL(mg/L) |
|----------|----------|-----------|----------|----------|----------|---------|----------|------------|-----------|-----------|----------|
| 0898GW43 | 38 4 12 | 112 48 33 | 78.0 | 21.0 | 20 | 5.0 | <2 | 36 | 346.0 | 16.0 | 29.00 |
| 0899GW43 | 38 6 13 | 112 48 3 | 43.0 | 11.0 | 10 | <1.0 | <2 | 32 | 151.0 | 17.0 | 15.00 |
| 1052SW14 | 38 40 52 | 112 2 16 | 75.0 | 12.0 | 13 | 1.0 | <2 | 40 | 298.0 | 6.0 | 11.00 |
| 1054SW14 | 38 40 49 | 112 2 47 | 20.0 | 4.0 | 5 | 2.0 | 2 | 26 | 84.0 | 3.1 | 3.70 |
| 1057SW14 | 38 34 13 | 112 5 10 | 33.0 | 6.0 | 5 | <1.0 | <2 | 24 | 116.0 | 7.5 | 4.50 |
| 1058SW14 | 38 34 39 | 112 4 59 | 30.0 | 3.0 | 5 | 1.0 | 5 | 20 | 98.0 | 9.5 | 2.50 |
| 1060GW14 | 38 38 17 | 112 2 47 | 35.0 | 7.0 | 8 | 2.0 | <2 | 36 | 138.0 | 3.8 | 18.00 |
| 1063GW14 | 38 38 16 | 112 5 57 | 303.0 | 30.0 | 740 | 9.9 | 820 | 48 | 301.0 | 780.0 | 810.00 |
| 1064GW14 | 38 33 32 | 112 5 0 | 30.0 | 6.0 | 5 | <1.0 | <2 | 42 | 119.0 | 5.7 | 5.70 |
| 1065GW14 | 38 31 51 | 112 3 28 | 15.0 | 2.0 | 5 | <1.0 | <2 | 26 | 53.0 | 3.5 | 2.70 |
| 1066SW14 | 38 30 30 | 112 1 58 | 5.0 | 1.3 | 3 | <1.0 | 2 | 18 | 28.0 | 2.5 | 2.00 |
| 1067GW14 | 38 31 55 | 112 1 52 | 10.0 | 3.2 | 5 | 1.0 | 3 | 24 | 58.0 | 3.0 | 4.20 |
| 1068SW14 | 38 30 21 | 112 0 15 | 15.0 | 2.0 | 3 | 1.0 | <2 | 24 | 52.0 | 1.8 | 3.30 |
| 1082GW42 | 38 24 44 | 112 46 34 | 48.0 | 8.0 | 15 | 3.0 | 5 | 14 | 169.0 | 12.0 | 19.00 |
| 1084SW44 | 38 1 36 | 112 14 5 | 23.0 | 3.0 | 8 | <1.0 | <2 | 22 | 89.0 | 2.7 | 1.20 |
| 1088SW44 | 38 0 18 | 112 11 52 | 9.0 | 2.0 | 3 | 1.0 | <2 | 24 | 48.0 | 2.3 | 1.30 |
| 1094GW44 | 38 0 14 | 112 6 53 | 28.0 | 6.0 | 5 | 2.0 | <2 | 42 | 110.0 | 6.9 | 6.60 |
| 1098GW44 | 38 4 56 | 112 0 16 | 28.0 | 4.0 | 8 | 2.0 | 2 | 42 | 117.0 | 3.1 | 5.30 |
| 1101GW43 | 38 1 30 | 112 43 6 | 33.0 | 7.0 | 15 | 4.3 | 6 | 46 | 140.0 | 8.0 | 18.00 |
| 1102GW42 | 38 7 5 | 112 38 2 | 30.0 | 6.0 | 8 | 4.0 | 6 | 40 | 137.0 | 17.0 | 8.30 |
| 1103GW43 | 38 14 21 | 112 39 47 | 48.0 | 11.0 | 23 | 4.0 | 10 | 44 | 211.0 | 26.0 | 26.00 |
| 1104GW42 | 38 17 40 | 112 36 43 | 43.0 | 8.0 | 19 | 2.0 | 9 | 26 | 161.0 | 46.0 | 26.00 |
| 1105GW42 | 38 22 15 | 112 38 23 | 25.0 | 4.0 | 5 | 1.0 | 8 | 26 | 65.0 | 10.0 | 13.00 |
| 1106GW42 | 38 29 29 | 112 36 47 | 50.0 | 10.0 | 18 | 5.0 | 21 | 48 | 167.0 | 40.0 | 53.00 |
| 1107GW13 | 38 36 8 | 112 34 50 | 83.0 | 16.0 | 23 | 3.0 | 19 | 34 | 199.0 | 36.0 | 89.00 |
| 1108GW13 | 38 44 29 | 112 34 16 | 540.0 | 95.0 | 1,000 | 170.0 | 4,600 | 20 | 494.0 | 150.0 | 2,470.00 |
| 1109GW11 | 38 55 46 | 112 22 23 | 90.0 | 11.0 | 13 | 4.0 | 100 | 18 | 277.0 | 74.0 | 75.00 |
| 1112GW43 | 38 0 51 | 112 35 59 | 40.0 | 8.0 | 20 | 2.0 | <2 | 28 | 226.0 | 10.0 | 4.10 |
| 1113GW43 | 38 1 51 | 112 30 22 | 35.0 | 8.0 | 10 | 2.0 | <2 | 38 | 182.0 | 8.0 | 9.00 |
| 1114GW44 | 38 2 29 | 112 21 19 | 50.0 | 80.0 | 188 | 43.0 | 80 | 180 | 1,530.0 | 4.0 | 192.00 |
| 1115GW44 | 38 12 32 | 112 12 46 | 38.0 | 8.0 | 25 | 4.0 | 10 | 48 | 102.0 | 90.0 | 12.00 |
| 1116GW41 | 38 24 17 | 112 14 46 | 41.0 | 13.0 | 3 | <1.0 | 5 | 6 | 170.0 | 42.0 | .60 |
| 1117GW14 | 38 30 10 | 112 15 28 | 20.0 | 5.0 | 5 | .5 | 4 | 16 | 61.0 | 14.0 | 7.70 |
| 1118GW14 | 38 41 19 | 112 7 18 | 75.0 | 27.0 | 23 | 3.0 | 15 | 28 | 230.0 | 72.0 | 23.00 |
| 1120GW31 | 38 22 3 | 113 3 12 | 88.0 | 20.0 | 68 | 6.0 | 22 | 36 | 224.0 | 120.0 | 140.00 |
| 1121GW34 | 38 13 21 | 113 10 0 | 30.0 | 16.0 | 88 | 5.0 | 70 | 20 | 139.0 | 130.0 | 74.00 |
| 1126GW34 | 38 13 18 | 113 17 13 | 20.0 | 5.0 | 93 | 2.0 | 70 | 12 | 162.0 | 85.0 | 23.00 |
| 1127GW34 | 38 9 46 | 113 18 45 | 81.0 | 125.0 | 83 | 8.0 | 130 | 38 | 164.0 | 210.0 | 290.00 |
| 1301GW43 | 38 0 34 | 112 44 37 | 28.0 | 6.0 | 20 | 5.0 | 4 | 56 | 123.0 | 5.6 | 15.00 |
| 1329GW42 | 38 15 56 | 112 53 22 | 128.0 | 46.0 | 23 | 3.0 | 17 | 22 | 195.0 | 250.0 | 54.00 |
| 1331GW42 | 38 17 22 | 112 53 50 | 125.0 | 58.0 | 43 | 2.0 | 25 | 20 | 388.0 | 160.0 | 39.00 |
| 1333GW42 | 38 16 39 | 112 54 53 | 68.0 | 27.0 | 18 | 3.0 | 12 | 20 | 245.0 | 61.0 | 50.00 |
| 1334GW42 | 38 16 19 | 112 55 46 | 65.0 | 33.0 | 20 | 3.0 | 11 | 16 | 233.0 | 91.0 | 50.00 |
| 1335GW42 | 38 16 34 | 112 52 5 | 123.0 | 43.0 | 30 | 1.0 | 18 | 10 | 312.0 | 120.0 | 47.00 |
| 1337GW42 | 38 17 15 | 112 51 43 | 110.0 | 22.0 | 15 | 2.0 | 8 | 12 | 335.0 | 18.0 | 34.00 |

Table 2.--WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | F (mg/L) | ZN (ug/L) | CU (ug/L) | MO (ug/L) | AS (ug/L) | U (ug/L) | SP. COND. (umhos/cm) | pH | TEMP. (C) |
|----------|----------|-----------|-----------|-----------|-----------|----------|-------------------------|------|-----------|
| 0898GW43 | .28 | 1.5 | 1.1 | <1.0 | 3.2 | 1.8 | 602 | 8.10 | 20.0 |
| 0899GW43 | .22 | 1.4 | 1.8 | <1.0 | 4.0 | .3 | 350 | 8.25 | 18.0 |
| 1052SW14 | .21 | 3.4 | <1.0 | <1.0 | 6.2 | 5.5 | 492 | 7.85 | 13.5 |
| 1054SW14 | .23 | 2.1 | 2.5 | <1.0 | 3.3 | .8 | 168 | 8.30 | 16.0 |
| 1057SW14 | .08 | 6.4 | 1.5 | 1.0 | 2.0 | 1.5 | 235 | 7.95 | 13.5 |
| 1058SW14 | .20 | 3.1 | 1.2 | 3.0 | 3.1 | 3.3 | 205 | 8.00 | 11.5 |
| 1060GW14 | .24 | 4.9 | 1.1 | <1.0 | 2.3 | 2.6 | 281 | 8.05 | 13.0 |
| 1063GW14 | 2.10 | 19.0 | 6.5 | 6.6 | 240.0 | <.2 | 4,200 | 7.25 | 82.0 |
| 1064GW14 | .29 | 1.9 | .9 | <1.0 | 1.3 | .5 | 243 | 8.05 | 12.0 |
| 1065GW14 | .15 | 4.4 | 1.7 | <1.0 | .7 | <.2 | 112 | 7.40 | 7.0 |
| 1066SW14 | .01 | 2.4 | 1.2 | <1.0 | 1.0 | .2 | 166 | 8.15 | 12.0 |
| 1067GW14 | .13 | 5.0 | 1.3 | <1.0 | 1.2 | <.2 | 136 | 6.85 | 12.0 |
| 1068SW14 | .12 | 2.3 | 1.6 | <1.0 | 1.5 | <.2 | 101 | 7.95 | 12.0 |
| 1082GW42 | .24 | 50.0 | 2.4 | 1.2 | .7 | 3.9 | 369 | 8.14 | 23.0 |
| 1084SW44 | .09 | 1.5 | 1.0 | <1.0 | 1.7 | <.2 | 162 | 7.82 | 8.0 |
| 1088SW44 | .06 | 1.5 | <1.0 | <1.0 | 1.0 | <.2 | 84 | 7.55 | 10.0 |
| 1094GW44 | .14 | 1.9 | 1.6 | <1.0 | 1.7 | .4 | 215 | 7.66 | 20.0 |
| 1098GW44 | .15 | 1.6 | 1.4 | <1.0 | 2.5 | .3 | 225 | 7.74 | 20.0 |
| 1101GW43 | .26 | 5.4 | 3.1 | 1.4 | 4.0 | 1.5 | 348 | 7.92 | 16.0 |
| 1102GW42 | .48 | 568.0 | 5.1 | <1.0 | 2.9 | .4 | 300 | 7.68 | 18.0 |
| 1103GW43 | .17 | 5.6 | 3.8 | <1.0 | 4.1 | 4.6 | 510 | 8.00 | 12.0 |
| 1104GW42 | .90 | 7.1 | 6.0 | 2.0 | .5 | 13.4 | 430 | 7.69 | 14.0 |
| 1105GW42 | .46 | 4.6 | 1.2 | 1.3 | 2.6 | 2.0 | 195 | 7.96 | 16.0 |
| 1106GW42 | .36 | 514.0 | 3.7 | 1.1 | 3.5 | 3.9 | 545 | 7.75 | 20.0 |
| 1107GW13 | 1.00 | 112.0 | 2.7 | <1.0 | 2.5 | 1.7 | 800 | 7.56 | 15.0 |
| 1108GW13 | 3.70 | 93.0 | 22.0 | 7.0 | 9.9 | .3 | 8,000 | 8.17 | 17.0 |
| 1109GW11 | .37 | 40.0 | 2.1 | <1.0 | 1.1 | .7 | 1,325 | 7.72 | 14.0 |
| 1112GW43 | .28 | 118.0 | 3.8 | <1.0 | .5 | .9 | 390 | 7.95 | 12.0 |
| 1113GW43 | .14 | 6.3 | .9 | <1.0 | .5 | .5 | 334 | 7.87 | 13.0 |
| 1114GW44 | .51 | 29.0 | 4.7 | <1.0 | 14.0 | 1.5 | 2,350 | 7.19 | 20.0 |
| 1115GW44 | .44 | 64.0 | 1.6 | 1.3 | 7.2 | 1.5 | 450 | 7.53 | 14.0 |
| 1116GW41 | .34 | 224.0 | 2.5 | <1.0 | 1.1 | .4 | 355 | 8.05 | 14.0 |
| 1117GW14 | .64 | 2,105.0 | 8.1 | 1.0 | .5 | .2 | 178 | 7.52 | 14.0 |
| 1118GW14 | .56 | 26.0 | 2.0 | <1.0 | 1.2 | 5.3 | 880 | 7.65 | 12.0 |
| 1120GW31 | .40 | 8.2 | 5.0 | 2.2 | 5.9 | 22.8 | 995 | 7.78 | 17.0 |
| 1121GW34 | .07 | 72.0 | 5.4 | 1.9 | 4.3 | .7 | 705 | 7.89 | 15.0 |
| 1126GW34 | .50 | 87.0 | 17.0 | 6.1 | .5 | 1.9 | 540 | 7.76 | 18.0 |
| 1127GW34 | 1.20 | 17.0 | 8.4 | 6.0 | 11.0 | 2.6 | 1,750 | 8.13 | 18.0 |
| 1301GW43 | .28 | 2.7 | 1.2 | 1.0 | 6.5 | .8 | 269 | 7.35 | 11.5 |
| 1329GW42 | .98 | 43.0 | 3.0 | 4.5 | 4.1 | 6.1 | 980 | 7.95 | 12.5 |
| 1331GW42 | .06 | 2.7 | 1.2 | 1.7 | 2.5 | .6 | 1,120 | 7.55 | 14.0 |
| 1333GW42 | .21 | 35.0 | <1.0 | 10.8 | 3.6 | 15.0 | 620 | 7.05 | 12.5 |
| 1334GW42 | .45 | 1.7 | 1.4 | 8.1 | 2.5 | 10.0 | 650 | 8.25 | 11.5 |
| 1335GW42 | .25 | 4.7 | 1.6 | 3.1 | .9 | .9 | 650 | 7.45 | 12.0 |
| 1337GW42 | .10 | 2.3 | 1.0 | <1.0 | 5.0 | .2 | 710 | 7.45 | 11.5 |

Table 2.--WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | LATITUDE | LONGITUDE | CA(mg/L) | MG(mg/L) | NA(mg/L) | K(mg/L) | LI(ug/L) | SI02(mg/L) | ALK(mg/L) | S04(mg/L) | CL(mg/L) |
|----------|----------|-----------|----------|----------|----------|---------|----------|------------|-----------|-----------|----------|
| 1339GW42 | 38 20 38 | 112 53 21 | 75.0 | 19.0 | 20 | 2.0 | 5 | 16 | 263.0 | 13.0 | 21.00 |
| 1342GW42 | 38 25 35 | 112 50 34 | 50.0 | 9.0 | 33 | 4.0 | 30 | 30 | 201.0 | 16.0 | 41.00 |
| 1349GW42 | 38 29 30 | 112 45 13 | 58.0 | 10.0 | 33 | 4.0 | 30 | 30 | 231.0 | 15.0 | 38.00 |
| 1354GW42 | 38 28 10 | 112 47 2 | 28.0 | 5.0 | 16 | 7.0 | 10 | 30 | 131.0 | 6.6 | 16.00 |
| 1356GW42 | 38 28 6 | 112 42 13 | 18.0 | 4.0 | 5 | 1.0 | 6 | 14 | 55.0 | 4.2 | 16.00 |
| 1360GW42 | 38 28 50 | 112 44 58 | 50.0 | 9.0 | 38 | 8.0 | 20 | 44 | 231.0 | 10.0 | 41.00 |
| 1361GW42 | 38 28 32 | 112 42 44 | 45.0 | 8.0 | 13 | 3.0 | 11 | 18 | 162.0 | 16.0 | 16.00 |
| 1368GW42 | 38 28 22 | 112 40 1 | 40.0 | 6.0 | 10 | 2.0 | 5 | 22 | 82.0 | 9.1 | 57.00 |
| 1369GW42 | 38 29 1 | 112 41 47 | 93.0 | 19.0 | 33 | 1.0 | 25 | 14 | 391.0 | 20.0 | 65.00 |
| 1372GW42 | 38 29 41 | 112 40 6 | 100.0 | 14.0 | 23 | 1.0 | 14 | 32 | 277.0 | 17.0 | 95.00 |
| 1381GW42 | 38 21 13 | 112 59 43 | 120.0 | 45.0 | 48 | 4.0 | 31 | 30 | 140.0 | 160.0 | 280.00 |
| 1382GW42 | 38 19 1 | 112 59 27 | 125.0 | 33.0 | 33 | 5.0 | 24 | 30 | 161.0 | 110.0 | 212.00 |
| 1383GW42 | 38 16 49 | 112 59 28 | 83.0 | 14.0 | 28 | 5.0 | 15 | 30 | 245.0 | 60.0 | 62.00 |
| 1413GW42 | 38 21 47 | 112 31 17 | 58.0 | 7.0 | 8 | 2.0 | 10 | 14 | 178.0 | 25.0 | 6.40 |
| 1416SW42 | 38 22 51 | 112 31 43 | 23.0 | 4.0 | 8 | 1.0 | 4 | 40 | 61.0 | 230.0 | 16.00 |
| 1417SW42 | 38 22 50 | 112 31 47 | 68.0 | 26.0 | 13 | 2.0 | 12 | 28 | 230.0 | 100.0 | 18.00 |
| 1420SW42 | 38 22 34 | 112 33 48 | 125.0 | 57.0 | 49 | 1.0 | 12 | 22 | 256.0 | 220.0 | 84.00 |
| 1421GW42 | 38 22 33 | 112 33 44 | 145.0 | 68.0 | 65 | 2.0 | 15 | 26 | 468.0 | 370.0 | 94.00 |
| 1423GW42 | 38 24 6 | 112 32 52 | 60.0 | 12.0 | 20 | 3.0 | 6 | 28 | 114.0 | 43.0 | 100.00 |
| 1424SW42 | 38 25 46 | 112 32 31 | 53.0 | 13.0 | 13 | 3.0 | 7 | 14 | 105.0 | 78.0 | 13.00 |
| 1425SW42 | 38 25 26 | 112 31 24 | 15.0 | 2.0 | 5 | 1.0 | 4 | 28 | 38.0 | 8.9 | 12.00 |
| 1427SW42 | 38 27 9 | 112 30 43 | 8.0 | 1.0 | 5 | <1.0 | 2 | 24 | 27.0 | 3.9 | 4.80 |
| 1431SW42 | 38 27 5 | 112 34 16 | 73.0 | 16.0 | 23 | 2.0 | 3 | 20 | 286.0 | 35.0 | 13.00 |
| 1432GW42 | 38 28 13 | 112 35 29 | 95.0 | 19.0 | 20 | <1.0 | 10 | 48 | 402.0 | 12.0 | 38.00 |
| 1433SW42 | 38 28 16 | 112 34 26 | 73.0 | 14.0 | 28 | 1.0 | 5 | 42 | 290.0 | 15.0 | 49.00 |
| 1434GW42 | 38 28 47 | 112 33 2 | 50.0 | 9.0 | 13 | <1.0 | 5 | 36 | 216.0 | 3.3 | 5.90 |
| 1437SW13 | 38 30 2 | 112 33 1 | 63.0 | 15.0 | 25 | <1.0 | 12 | 46 | 280.0 | 8.3 | 35.00 |
| 1438GW13 | 38 31 43 | 112 33 50 | 113.0 | 24.0 | 48 | <1.0 | 27 | 42 | 366.0 | 31.0 | 92.00 |
| 1440GW13 | 38 31 33 | 112 36 0 | 108.0 | 34.0 | 55 | 2.0 | 36 | 64 | 385.0 | 56.0 | 180.00 |
| 1442GW13 | 38 33 38 | 112 33 13 | 65.0 | 13.0 | 65 | 3.0 | 22 | 68 | 295.0 | 6.2 | 43.00 |
| 1443GW13 | 38 33 55 | 112 32 52 | 53.0 | 12.0 | 20 | 1.0 | 19 | 34 | 174.0 | 14.0 | 67.00 |
| 1450SW41 | 38 19 18 | 112 21 41 | 25.0 | 4.0 | 3 | <1.0 | <2 | 14 | 83.0 | 3.1 | .80 |
| 1452SW41 | 38 19 20 | 112 21 6 | 25.0 | 3.0 | 3 | <1.0 | 2 | 12 | 74.0 | 5.0 | 18.00 |
| 1454GW43 | 38 14 31 | 112 41 15 | 38.0 | 11.0 | 40 | 6.0 | 22 | 68 | 150.0 | 30.0 | 51.00 |
| 1455GW43 | 38 13 14 | 112 40 17 | 25.0 | 4.0 | 33 | 5.0 | 10 | 72 | 123.0 | 15.0 | 16.00 |
| 1463GW13 | 38 38 13 | 112 36 33 | 63.0 | 10.0 | 23 | 6.0 | 20 | 50 | 181.0 | 22.0 | 28.00 |
| 1469SW41 | 38 17 32 | 112 26 55 | 10.0 | 2.0 | 3 | 2.0 | <2 | 34 | 47.0 | 3.3 | 2.10 |
| 1470SW41 | 38 18 1 | 112 26 57 | 6.0 | 1.0 | 3 | 1.0 | 2 | 30 | 21.0 | 3.1 | 1.10 |
| 1471SW41 | 38 18 7 | 112 28 5 | 7.0 | 1.0 | 3 | 1.0 | <2 | 34 | 24.0 | 3.3 | 1.90 |
| 1472GW41 | 38 18 19 | 112 29 2 | 6.0 | 1.0 | 3 | 2.0 | 2 | 40 | 27.0 | 3.3 | 1.10 |
| 1475GW41 | 38 17 15 | 112 25 13 | 40.0 | 5.0 | 3 | 2.0 | 2 | 48 | 130.0 | 1.9 | 1.90 |
| 1477SW41 | 38 18 9 | 112 23 8 | 10.0 | 1.0 | 3 | 1.0 | <2 | 30 | 35.0 | 3.0 | .81 |
| 1481GW41 | 38 17 35 | 112 23 59 | 14.0 | 2.0 | 3 | 2.0 | <2 | 40 | 61.0 | 1.9 | .90 |
| 1482SW41 | 38 19 42 | 112 26 1 | 6.0 | <1.0 | 3 | <1.0 | 2 | 28 | 21.0 | 1.8 | 1.10 |
| 1484GW43 | 38 3 41 | 112 43 6 | 35.0 | 6.0 | 28 | 5.0 | 6 | 58 | 270.0 | .8 | 28.00 |

Table 2.-- WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | F(mg/L) | ZN(ug/L) | CU(ug/L) | MO(ug/L) | AS(ug/L) | U(ug/L) | SP.COND. (umhos/cm) | pH | TEMP.(C) |
|----------|---------|----------|----------|----------|----------|---------|------------------------|------|----------|
| 1339GW42 | 1.30 | 2.4 | 1.2 | 3.7 | .3 | 7.6 | 584 | 7.50 | 10.5 |
| 1342GW42 | .80 | 2.7 | 1.7 | 3.7 | 2.3 | 6.4 | 465 | 7.20 | 13.5 |
| 1349GW42 | .79 | 3.9 | 1.7 | 1.7 | 1.1 | 46.9 | 460 | 7.60 | 10.0 |
| 1354GW42 | .25 | 6.3 | 1.4 | 1.0 | 1.2 | .5 | 270 | 7.20 | 11.0 |
| 1356GW42 | .15 | 3.0 | 1.5 | 1.1 | 2.1 | .2 | 125 | 7.20 | 15.0 |
| 1360GW42 | .41 | 3.1 | 1.1 | <1.0 | 2.0 | 3.8 | 500 | 7.35 | 9.0 |
| 1361GW42 | .24 | 2.9 | 1.1 | 2.0 | .4 | 7.8 | 355 | 8.00 | 11.5 |
| 1368GW42 | .10 | 4.4 | 1.5 | <1.0 | 1.0 | .4 | 320 | 7.70 | 7.0 |
| 1369GW42 | .14 | 2.4 | 2.3 | 2.5 | .9 | 11.2 | 680 | 7.95 | 11.5 |
| 1372GW42 | .20 | 4.4 | 1.6 | <1.0 | 1.8 | 1.6 | 710 | 7.60 | 17.5 |
| 1381GW42 | .45 | 4.4 | 3.8 | 7.4 | 5.5 | 3.5 | 1,160 | 8.00 | 18.0 |
| 1382GW42 | .25 | 4.0 | 1.5 | 1.2 | 3.6 | 4.2 | 1,080 | 8.25 | 14.5 |
| 1383GW42 | .30 | 24.0 | 3.0 | 1.1 | 3.1 | 12.0 | 630 | 7.80 | 13.0 |
| 1413GW42 | .46 | 4.5 | <1.0 | 1.0 | .3 | 12.4 | 360 | 7.00 | 7.0 |
| 1416SW42 | .16 | 1.9 | <1.0 | <1.0 | .6 | 1.0 | 174 | 8.05 | 12.0 |
| 1417SW42 | .33 | 2.3 | <1.0 | <1.0 | .8 | 3.1 | 580 | 8.20 | 14.0 |
| 1420SW42 | .24 | 1.5 | 1.3 | <1.0 | 1.0 | 4.9 | 1,050 | 8.20 | 14.0 |
| 1421GW42 | .34 | 3.5 | 1.7 | 10.2 | 4.7 | 3.8 | 1,380 | 7.60 | 17.5 |
| 1423GW42 | .50 | 7.0 | <1.0 | <1.0 | .3 | .4 | 530 | 6.90 | 8.5 |
| 1424SW42 | 4.10 | 12.0 | 1.7 | <1.0 | .7 | 100.0 | 430 | 8.00 | 14.0 |
| 1425SW42 | .09 | 2.3 | <1.0 | <1.0 | .5 | .2 | 105 | 7.65 | 11.5 |
| 1427SW42 | .19 | 2.2 | <1.0 | <1.0 | .5 | <.2 | 68 | 7.80 | 10.5 |
| 1431SW42 | .22 | 3.0 | 1.0 | <1.0 | .8 | 1.1 | 575 | 8.35 | 17.5 |
| 1432GW42 | .10 | 320.0 | 2.6 | <1.0 | 1.1 | 3.2 | 650 | 7.05 | 19.0 |
| 1433SW42 | .14 | 1.8 | 5.2 | <1.0 | 1.6 | 2.4 | 555 | 8.40 | 16.0 |
| 1434GW42 | .10 | 5.7 | 1.0 | <1.0 | .9 | .3 | 340 | 7.30 | 10.0 |
| 1437SW13 | .27 | 2.0 | 1.7 | <1.0 | 2.8 | 4.5 | 505 | 8.40 | 19.5 |
| 1438GW13 | .28 | 5.8 | <1.0 | <1.0 | 4.9 | 4.1 | 850 | 7.40 | 12.5 |
| 1440GW13 | <.05 | 3.7 | 1.0 | 1.3 | 4.6 | 6.1 | 939 | 7.75 | 17.5 |
| 1442GW13 | .23 | 3.2 | 1.6 | <1.0 | 5.7 | 1.0 | 680 | 7.85 | 17.5 |
| 1443GW13 | .18 | 2.5 | <1.0 | <1.0 | .8 | 1.9 | 425 | 7.35 | 16.0 |
| 1450SW41 | .04 | 2.3 | 1.3 | <1.0 | .3 | <.2 | 144 | 7.95 | 6.5 |
| 1452SW41 | .06 | 1.9 | <1.0 | <1.0 | .4 | <.2 | 127 | 7.90 | 6.5 |
| 1454GW43 | .32 | 2.6 | <1.0 | <1.0 | 5.5 | 4.4 | 455 | 7.80 | 11.5 |
| 1455GW43 | .25 | 4.8 | <1.0 | <1.0 | 5.0 | 2.6 | 271 | 8.05 | 18.5 |
| 1463GW13 | .13 | 1,300.0 | 1.0 | <1.0 | 4.4 | 1.9 | 483 | 7.80 | 20.0 |
| 1469SW41 | .06 | 3.9 | <1.0 | <1.0 | 1.5 | 1.3 | 87 | 7.65 | 9.5 |
| 1470SW41 | .05 | 2.7 | 1.3 | <1.0 | .6 | <.2 | 49 | 7.60 | 9.0 |
| 1471SW41 | .05 | 2.9 | <1.0 | <1.0 | .7 | <.2 | 59 | 7.50 | 12.5 |
| 1472GW41 | .06 | 3.9 | 1.2 | <1.0 | .8 | .2 | 58 | 6.35 | 4.0 |
| 1475GW41 | .09 | 6.5 | <1.0 | <1.0 | 1.3 | .3 | 220 | 7.30 | 15.0 |
| 1477SW41 | .05 | 1.8 | <1.0 | <1.0 | .4 | <.2 | 79 | 7.65 | 8.5 |
| 1481GW41 | .07 | 2.2 | <1.0 | <1.0 | .6 | .2 | 101 | 7.10 | 3.5 |
| 1482SW41 | .20 | 1.8 | 1.6 | <1.0 | .5 | <.2 | 55 | 7.45 | 15.0 |
| 1484GW43 | .32 | 220.0 | 1.8 | <1.0 | 1.5 | <.2 | 330 | 7.70 | 24.0 |

Table 2.--WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | LATITUDE | LONGITUDE | CA(mg/L) | MG(mg/L) | NA(mg/L) | K(mg/L) | LI(ug/L) | SI02(mg/L) | ALK(mg/L) | S04(mg/L) | CL(mg/L) |
|----------|----------|-----------|----------|----------|----------|---------|----------|------------|-----------|-----------|----------|
| 1502GW43 | 38 2 18 | 112 42 11 | 43.0 | 8.0 | 5 | 4.0 | 3 | 50 | 134.0 | 7.5 | 27.00 |
| 1503GW43 | 38 1 5 | 112 42 17 | 30.0 | 7.0 | 18 | 4.0 | 3 | 50 | 131.0 | 4.5 | 15.00 |
| 1504GW43 | 38 2 22 | 112 42 57 | 46.0 | 8.0 | 15 | 4.0 | 2 | 50 | 142.0 | 8.1 | 26.00 |
| 1507GW42 | 38 19 32 | 112 31 54 | 28.0 | 8.0 | 23 | <1.0 | <2 | 24 | 159.0 | 7.2 | 18.00 |
| 1520SW42 | 38 21 36 | 112 31 43 | 93.0 | 11.0 | 20 | 5.0 | 30 | 26 | 295.0 | 54.0 | 13.00 |
| 1523SW41 | 38 22 54 | 112 29 37 | 10.0 | 1.0 | 3 | <1.0 | 2 | 14 | 39.0 | 4.2 | 2.30 |
| 1530GW42 | 38 23 33 | 112 30 26 | 4.0 | <1.0 | 3 | <1.0 | <2 | 20 | 3.0 | 7.5 | 1.00 |
| 1534SW41 | 38 23 59 | 112 29 3 | 4.0 | <1.0 | 4 | <1.0 | 2 | 22 | 14.0 | 7.5 | 1.60 |
| 1538GW41 | 38 25 24 | 112 29 12 | 8.0 | 1.0 | 5 | <1.0 | 5 | 24 | 33.0 | 2.5 | 2.20 |
| 1542GW41 | 38 25 7 | 112 29 40 | 8.0 | 1.0 | 6 | <1.0 | 7 | 20 | 27.0 | 5.8 | 2.70 |
| 1546GW41 | 38 25 43 | 112 28 39 | 9.0 | 1.0 | 8 | <1.0 | 10 | 18 | 34.0 | 6.3 | 2.50 |
| 1550SW41 | 38 25 48 | 112 28 17 | 7.0 | 1.0 | 3 | <1.0 | 2 | 24 | 27.0 | 1.7 | 1.90 |
| 1557SW42 | 38 25 42 | 112 30 55 | 6.0 | 1.0 | 3 | <1.0 | 2 | 14 | 23.0 | 1.7 | 2.20 |
| 1560GW42 | 38 26 42 | 112 31 8 | 8.0 | 1.0 | 3 | 1.0 | 3 | 22 | 28.0 | 2.5 | 3.20 |
| 1562SW42 | 38 25 38 | 112 32 34 | 13.0 | 4.0 | 8 | 2.0 | 5 | 30 | 55.0 | 7.1 | 12.00 |
| 1571SW42 | 38 27 27 | 112 32 22 | 25.0 | 4.0 | 5 | 1.0 | 4 | 24 | 100.0 | 4.6 | 5.00 |
| 1574GW42 | 38 27 55 | 112 34 46 | 95.0 | 21.0 | 18 | 1.0 | 12 | 48 | 418.0 | 6.2 | 39.00 |
| 1576SW41 | 38 21 23 | 112 22 54 | 13.0 | 2.0 | 3 | <1.0 | <2 | 6 | 42.0 | 1.7 | .46 |
| 1577GW41 | 38 22 31 | 112 23 46 | 10.0 | 2.0 | 5 | <1.0 | 2 | 14 | 54.0 | 1.8 | .21 |
| 1578GW41 | 38 22 54 | 112 24 3 | 6.3 | 2.8 | 3 | <1.0 | <2 | 8 | 45.0 | 1.3 | .03 |
| 1579GW41 | 38 23 52 | 112 23 39 | 33.0 | 3.0 | 3 | <1.0 | 5 | 10 | 34.0 | 54.0 | 1.20 |
| 1580SW41 | 38 23 26 | 112 23 2 | 6.5 | <1.0 | 3 | <1.0 | <2 | 4 | 31.0 | 3.1 | .32 |
| 1581GW41 | 38 25 16 | 112 24 8 | 5.0 | <1.0 | 1 | <1.0 | <2 | 4 | 2.4 | 8.1 | 1.20 |
| 1582SW41 | 38 25 28 | 112 23 56 | 2.0 | <1.0 | 3 | <1.0 | <2 | 8 | 1.2 | 11.0 | 1.30 |
| 1583SW41 | 38 25 6 | 112 23 14 | 10.0 | 1.0 | 3 | <1.0 | <2 | 8 | 14.0 | 11.0 | 3.30 |
| 1584SW41 | 38 24 54 | 112 23 22 | 2.0 | <1.0 | 2 | <1.0 | <2 | 10 | 1.0 | 8.3 | .31 |
| 1585SW41 | 38 24 52 | 112 23 20 | 18.0 | 1.0 | 2 | <1.0 | <2 | 4 | 30.0 | 22.0 | .53 |
| 1589GW41 | 38 26 34 | 112 22 35 | 29.0 | 1.0 | 3 | <1.0 | 5 | 4 | 84.0 | 5.0 | 1.20 |
| 1590SW41 | 38 26 2 | 112 22 25 | 33.0 | 2.0 | 3 | <1.0 | 3 | 4 | 68.0 | 26.0 | 1.60 |
| 1591SW41 | 38 25 46 | 112 22 42 | 15.0 | 1.0 | 3 | <1.0 | 2 | 2 | 43.0 | 6.4 | 1.50 |
| 1597GW41 | 38 28 0 | 112 21 51 | 13.0 | 1.0 | 3 | <1.0 | 3 | 12 | 43.0 | 9.4 | 4.60 |
| 1599GW41 | 38 29 13 | 112 19 56 | 28.0 | 4.0 | 15 | 1.0 | 8 | 24 | 101.0 | 13.0 | 36.00 |
| 1603GW43 | 38 5 50 | 112 45 15 | 38.0 | 5.0 | 8 | 2.0 | <2 | 38 | 140.0 | 6.6 | 9.40 |
| 1607GW43 | 38 14 44 | 112 52 30 | 285.0 | 100.0 | 85 | 3.0 | 40 | 20 | 255.0 | 950.0 | 140.00 |
| 1608GW43 | 38 8 17 | 112 51 44 | 55.0 | 7.0 | 20 | 3.0 | 13 | 36 | 199.0 | 9.0 | 33.00 |
| 1609GW34 | 38 14 10 | 113 21 35 | 28.0 | 7.0 | 35 | 2.0 | 29 | 20 | 129.0 | 13.0 | 38.00 |
| 1610GW34 | 38 6 41 | 113 20 47 | 70.0 | 27.0 | 55 | 5.0 | 28 | 38 | 167.0 | 154.0 | 70.00 |
| 1616GW11 | 38 56 52 | 112 8 8 | 58.0 | 12.0 | 3 | <1.0 | <2 | 2 | 234.0 | 1.6 | 4.90 |
| 1617GW11 | 38 53 20 | 112 9 48 | 78.0 | 12.0 | 13 | 3.0 | 14 | 6 | 335.0 | 1.3 | 5.10 |
| 1620SW11 | 38 52 50 | 112 8 34 | 53.0 | 18.0 | 8 | 3.0 | 15 | 8 | 280.0 | 6.3 | 26.00 |
| 1621SW11 | 38 52 37 | 112 8 40 | 65.0 | 20.0 | 8 | 2.0 | 15 | 8 | 283.0 | 24.0 | 26.00 |
| 1623GW11 | 38 56 31 | 112 10 57 | 78.0 | 14.0 | 3 | <1.0 | <2 | 4 | 288.0 | 2.0 | 5.30 |
| 1625GW11 | 38 59 32 | 112 9 8 | 68.0 | 11.0 | 3 | <1.0 | <2 | 4 | 264.0 | 1.8 | 4.60 |
| 1626GW11 | 38 55 38 | 112 12 34 | 58.0 | 8.0 | 10 | <1.0 | 5 | 8 | 238.0 | 9.0 | 19.00 |
| 1628GW11 | 38 55 15 | 112 12 46 | 55.0 | 16.0 | 5 | <1.0 | 4 | 6 | 290.0 | 3.9 | 7.30 |

Table 2.--WATER ANALYSES FROM THE RICHFIELD 7 DEGREE QUADRANGLE, UTAH--continued

| Sample | F(mg/L) | ZN(ug/L) | CU(ug/L) | MO(ug/L) | AS(ug/L) | U(ug/L) | SP.COND. (umhos/cm) | pH | TEMP.(C) |
|----------|---------|----------|----------|----------|----------|---------|------------------------|------|----------|
| 1502GW43 | .19 | 80.0 | 1.6 | 1.5 | 2.8 | .7 | 340 | 8.10 | 18.5 |
| 1503GW43 | .20 | 5.1 | <1.0 | 1.3 | 3.7 | .6 | 260 | 8.00 | 16.0 |
| 1504GW43 | .31 | 3.3 | 1.7 | 1.2 | 2.8 | .4 | 345 | 7.95 | 17.0 |
| 1507GW42 | .26 | 2.6 | <1.0 | 1.0 | 3.7 | 2.9 | 274 | 7.95 | 16.0 |
| 1520SW42 | .76 | 2.5 | 4.7 | 6.8 | 6.1 | 14.0 | 565 | 8.20 | 13.0 |
| 1523SW41 | .38 | 2.3 | .4 | 1.0 | .4 | 1.0 | 79 | 8.23 | 11.0 |
| 1530GW42 | 1.50 | 17.0 | .3 | <1.0 | .4 | .8 | 43 | 5.85 | 10.0 |
| 1534SW41 | 1.10 | 14.0 | .3 | <1.0 | .4 | .5 | 43 | 6.45 | 12.5 |
| 1538GW41 | .34 | 3.4 | .3 | <1.0 | .3 | .6 | 74 | 6.30 | 7.0 |
| 1542GW41 | .48 | 3.0 | .4 | <1.0 | .4 | .7 | 78 | 6.40 | 14.0 |
| 1546GW41 | .83 | 4.4 | .8 | 1.1 | .7 | .6 | 91 | 6.95 | 15.0 |
| 1550SW41 | .52 | 3.8 | .8 | <1.0 | .2 | <.2 | 62 | 6.60 | 6.5 |
| 1557SW42 | .14 | 3.2 | 1.2 | 1.1 | .4 | <.2 | 52 | 7.45 | 17.0 |
| 1560GW42 | .19 | 3.3 | 1.2 | <1.0 | .4 | .5 | 70 | 7.00 | 6.0 |
| 1562SW42 | .12 | 3.3 | 1.8 | 1.0 | .8 | .4 | 173 | 7.85 | 15.0 |
| 1571SW42 | .10 | 1.8 | 1.8 | <1.0 | 1.1 | .5 | 195 | 8.20 | 13.0 |
| 1574GW42 | .10 | 400.0 | 3.3 | <1.0 | 1.4 | 2.8 | 720 | 6.90 | 19.0 |
| 1576SW41 | .09 | 2.4 | <1.0 | <1.0 | .7 | <.2 | 815 | 7.60 | 17.5 |
| 1577GW41 | .09 | 2.6 | <1.0 | <1.0 | .8 | .3 | 98 | 7.70 | 2.5 |
| 1578GW41 | .32 | 2.6 | 1.0 | <1.0 | .8 | .2 | 96 | 7.85 | 1.0 |
| 1579GW41 | .49 | 4.0 | <1.0 | <1.0 | .2 | .3 | 225 | 7.40 | 3.0 |
| 1580SW41 | .03 | 2.2 | <1.0 | <1.0 | .9 | .2 | 73 | 7.60 | 8.0 |
| 1581GW41 | .51 | 3.5 | <1.0 | -- | -- | 1.1 | 31 | 6.75 | 1.0 |
| 1582SW41 | .66 | 11.0 | 1.3 | <1.0 | .3 | .6 | 37 | 6.40 | 9.5 |
| 1583SW41 | .77 | 4.3 | 1.3 | <1.0 | .1 | .2 | 70 | 6.95 | 8.0 |
| 1584SW41 | .86 | 60.0 | 3.3 | <1.0 | .6 | .4 | 40 | 6.30 | 9.0 |
| 1585SW41 | .17 | 1.9 | <1.0 | -- | -- | <.2 | 104 | 7.60 | 8.5 |
| 1589GW41 | .17 | 20.0 | 2.0 | 1.4 | 1.5 | 4.7 | 177 | 7.80 | 6.0 |
| 1590SW41 | .23 | 1.8 | 1.3 | <1.0 | .5 | .3 | 215 | 8.00 | 9.5 |
| 1591SW41 | .19 | 2.7 | 1.8 | <1.0 | .6 | .2 | 97 | 8.00 | 5.0 |
| 1597GW41 | .67 | 2.7 | 1.7 | <1.0 | .7 | .2 | 95 | 6.85 | 5.5 |
| 1599GW41 | .51 | 3.0 | 1.9 | <1.0 | 1.0 | 2.6 | 265 | 7.30 | 9.5 |
| 1603GW43 | .18 | 6.5 | 6.0 | 1.0 | 1.9 | <.2 | 275 | 6.95 | 16.5 |
| 1607GW43 | .22 | 2.0 | 3.8 | 4.4 | 1.4 | 2.6 | 2,150 | 7.30 | 12.0 |
| 1608GW43 | .10 | 1.1 | .6 | <1.0 | 7.1 | .5 | 430 | 7.55 | 16.0 |
| 1609GW34 | .38 | 150.0 | 4.2 | 3.1 | 7.2 | .7 | 360 | 8.30 | 19.0 |
| 1610GW34 | .47 | 81.0 | 2.1 | 6.7 | 6.7 | 2.1 | 835 | 7.65 | 13.5 |
| 1616GW11 | .06 | 3.5 | 1.3 | <1.0 | .3 | .2 | 295 | 7.90 | 8.0 |
| 1617GW11 | .10 | 5.1 | 5.1 | <1.0 | 1.1 | <.2 | 580 | 7.85 | 11.0 |
| 1620SW11 | .11 | 2.3 | 2.0 | <1.0 | 1.2 | .3 | 475 | 7.85 | 18.0 |
| 1621SW11 | .12 | 2.1 | 3.3 | <1.0 | 1.1 | .2 | 485 | 8.05 | 18.0 |
| 1623GW11 | .05 | 3.2 | 1.3 | <1.0 | .3 | .2 | 490 | 7.60 | 5.5 |
| 1625GW11 | .06 | 130.0 | 1.5 | <1.0 | .5 | <.2 | 411 | 7.60 | 13.5 |
| 1626GW11 | .11 | 2.3 | 1.5 | <1.0 | .5 | <.2 | 429 | 7.35 | 12.0 |
| 1628GW11 | .07 | 2.0 | 5.5 | <1.0 | .9 | .2 | 460 | 7.45 | 9.0 |

Table 2.--WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | LATITUDE | LONGITUDE | CA(mg/L) | MG(mg/L) | NA(mg/L) | K(mg/L) | LI(ug/L) | SI02(mg/L) | ALK(mq/L) | S04(mg/L) | CL(mg/L) |
|----------|----------|-----------|----------|----------|----------|---------|----------|------------|-----------|-----------|----------|
| 1630GW11 | 38 55 46 | 112 14 3 | 38.0 | 11.0 | 5 | <1.0 | 3 | 6 | 173.0 | 4.7 | 8.10 |
| 1631GW11 | 38 58 27 | 112 14 15 | 30.0 | 6.0 | 8 | <1.0 | 5 | 12 | 132.0 | 5.6 | 13.00 |
| 1641GW11 | 38 45 53 | 112 0 46 | 48.0 | 16.0 | 28 | 3.0 | 20 | 36 | 158.0 | 90.0 | 150.00 |
| 1649GW11 | 38 50 12 | 112 13 43 | 60.0 | 9.0 | 3 | <1.0 | <2 | 4 | 260.0 | 1.9 | 4.80 |
| 1650GW11 | 38 51 35 | 112 13 11 | 60.0 | 10.0 | 3 | <1.0 | <2 | 4 | 231.0 | 1.3 | 4.30 |
| 1651GW11 | 38 49 13 | 112 16 7 | 70.0 | 6.0 | 3 | <1.0 | <2 | 4 | 255.0 | 1.7 | 4.90 |
| 1652GW11 | 38 47 35 | 112 16 42 | 98.0 | 12.0 | 3 | <1.0 | <2 | 6 | 374.0 | 2.7 | 5.30 |
| 1656GW14 | 38 42 22 | 112 12 37 | 33.0 | 20.0 | 20 | 4.0 | 18 | 42 | 249.0 | 14.0 | 83.00 |
| 1658GW14 | 38 43 44 | 112 12 32 | 95.0 | 20.0 | 38 | 6.0 | 22 | 42 | 292.0 | 16.0 | 120.00 |
| 1659GW14 | 38 44 5 | 112 13 29 | 160.0 | 66.0 | 80 | 3.0 | 90 | 34 | 418.0 | 260.0 | 170.00 |
| 1665GW14 | 38 43 18 | 112 8 59 | 490.0 | 210.0 | 440 | 22.0 | 490 | 24 | 283.0 | 3,030.0 | 170.00 |
| 1669GW14 | 38 34 0 | 112 7 48 | 45.0 | 9.0 | 15 | 1.0 | 7 | 24 | 155.0 | 62.0 | 5.90 |
| 1688GW14 | 38 40 7 | 112 16 17 | 38.0 | 4.0 | 80 | 2.0 | 10 | 22 | 119.0 | 152.0 | 33.00 |
| 1692GW14 | 38 42 57 | 112 16 33 | 95.0 | 72.0 | 58 | 3.0 | 80 | 14 | 413.0 | 58.0 | 200.00 |
| 1700GW14 | 38 41 33 | 112 17 33 | 83.0 | 38.0 | 38 | 2.0 | 30 | 24 | 415.0 | 19.0 | 100.00 |
| 1701GW14 | 38 36 30 | 112 27 20 | 30.0 | 5.0 | 10 | <1.0 | 6 | 22 | 86.0 | 12.0 | 34.00 |
| 1703SW14 | 38 39 42 | 112 25 24 | 93.0 | 24.0 | 30 | 7.0 | 20 | 46 | 382.0 | 7.3 | 46.00 |
| 1704GW14 | 38 39 42 | 112 24 44 | 55.0 | 12.0 | 18 | 2.0 | 15 | 46 | 186.0 | 8.9 | 74.00 |
| 1712GW14 | 38 39 34 | 112 27 57 | 40.0 | 9.0 | 15 | 2.0 | 6 | 44 | 174.0 | 8.9 | 40.00 |
| 1716GW14 | 38 41 27 | 112 27 48 | 60.0 | 14.0 | 30 | 2.0 | 14 | 28 | 220.0 | 26.0 | 84.00 |
| 1736GW14 | 38 32 39 | 112 24 30 | 90.0 | 9.0 | 33 | 5.0 | 24 | 64 | 202.0 | 28.0 | 130.00 |
| 1744GW14 | 38 31 20 | 112 19 8 | 58.0 | 8.0 | 18 | 3.0 | 17 | 30 | 168.0 | 7.7 | 35.00 |
| 1748GW41 | 38 18 53 | 112 14 8 | 78.0 | 30.0 | 30 | 1.0 | 32 | 24 | 331.0 | 71.0 | 89.00 |
| 1751GW41 | 38 20 53 | 112 5 19 | 25.0 | 3.0 | 28 | <1.0 | 6 | 28 | 133.0 | 16.0 | 15.00 |
| 1755SW41 | 38 29 30 | 112 27 16 | 20.0 | 3.0 | 10 | <1.0 | 8 | 32 | 75.0 | 3.8 | 8.90 |
| 1758SW41 | 38 28 0 | 112 27 7 | 8.0 | 1.0 | 5 | 1.0 | 5 | 22 | 22.0 | 8.6 | 3.10 |
| 1759GW41 | 38 29 34 | 112 25 57 | 63.0 | 11.0 | 10 | 2.0 | 7 | 14 | 179.0 | 48.0 | 12.00 |
| 1768SW44 | 38 11 55 | 112 13 38 | 50.0 | 8.0 | 25 | 5.0 | 7 | 52 | 172.0 | 48.0 | 7.50 |
| 1782GW41 | 38 24 57 | 112 2 23 | 33.0 | 5.0 | 5 | 1.0 | 3 | 40 | 109.0 | 3.5 | 5.00 |
| 1787GW41 | 38 25 14 | 112 1 16 | 20.0 | 4.0 | 3 | 2.0 | <2 | 36 | 67.0 | 5.0 | 3.40 |
| 1788GW41 | 38 26 55 | 112 1 48 | 20.0 | 6.0 | 3 | <1.0 | 8 | 36 | 80.0 | 3.9 | 3.80 |
| 1791GW41 | 38 29 50 | 112 3 29 | 7.0 | 1.0 | 3 | <1.0 | 2 | 24 | 19.0 | 5.0 | 2.70 |
| 1802GW43 | 38 14 6 | 112 34 13 | 58.0 | 12.0 | 8 | 4.0 | 9 | 56 | 213.0 | 9.5 | 17.00 |
| 1807GW43 | 38 10 16 | 112 34 18 | 43.0 | 6.0 | 8 | 4.0 | 5 | 58 | 141.0 | 2.7 | 6.70 |
| 1811GW43 | 38 6 15 | 112 31 8 | 43.0 | 7.0 | 5 | 5.0 | 3 | 52 | 154.0 | 2.8 | 6.20 |
| 1816GW43 | 38 9 9 | 112 31 12 | 40.0 | 6.0 | 5 | 4.0 | 5 | 56 | 142.0 | 6.5 | 8.00 |
| 1821GW43 | 38 3 38 | 112 38 11 | 90.0 | 33.0 | 28 | 4.0 | 3 | 52 | 397.0 | 27.0 | 88.00 |
| 1828GW43 | 38 3 58 | 112 33 27 | 45.0 | 7.0 | 10 | 3.0 | 5 | 48 | 167.0 | 1.2 | 9.50 |
| 1837GW44 | 38 3 47 | 112 29 34 | 35.0 | 7.0 | 5 | 4.0 | <2 | 40 | 104.0 | 7.2 | 35.00 |
| 1850GW43 | 38 1 18 | 112 34 24 | 50.0 | 7.0 | 13 | 1.0 | 8 | 32 | 195.0 | 2.8 | 14.00 |
| 1853GW43 | 38 2 36 | 112 32 44 | 70.0 | 13.0 | 20 | 8.0 | 12 | 38 | 295.0 | 5.5 | 16.00 |
| 1857GW44 | 38 14 9 | 112 27 25 | 4.3 | 3.0 | 3 | 3.0 | <2 | 36 | 33.0 | 2.9 | .47 |
| 1858SW44 | 38 13 33 | 112 25 53 | 4.5 | 2.4 | 3 | 3.0 | 2 | 34 | 27.0 | 12.0 | 1.60 |
| 1859SW44 | 38 13 23 | 112 26 10 | 8.0 | 2.0 | 3 | 2.0 | <2 | 30 | 26.0 | 7.2 | .94 |
| 1860SW44 | 38 13 20 | 112 26 14 | 7.0 | 2.0 | 3 | 2.0 | <2 | 30 | 27.0 | 7.4 | 2.30 |

Table 2.--WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | F(mg/L) | ZN(ug/L) | CU(ug/L) | MO(ug/L) | AS(ug/L) | U(ug/L) | SP.COND. (µmhos/cm) | pH | TEMP.(C) |
|----------|---------|----------|----------|----------|----------|---------|------------------------|------|----------|
| 1630GW11 | .05 | 2.0 | 1.4 | <1.0 | .7 | <.2 | 320 | 7.55 | 10.0 |
| 1631GW11 | .07 | 3.6 | 1.1 | <1.0 | .4 | <.2 | 270 | 7.05 | 16.5 |
| 1641GW11 | .45 | 2.3 | 1.0 | <1.0 | 8.8 | 3.6 | 580 | 7.50 | 15.5 |
| 1649GW11 | .08 | 3.5 | 2.0 | <1.0 | .8 | <.2 | 410 | 7.45 | 5.5 |
| 1650GW11 | .04 | 2.2 | 1.6 | 1.0 | .3 | <.2 | 368 | 7.75 | 5.5 |
| 1651GW11 | .06 | 2.4 | 1.2 | <1.0 | 1.0 | <.2 | 410 | 7.15 | 11.0 |
| 1652GW11 | .06 | 30.0 | 1.1 | <1.0 | .8 | <.2 | 598 | 7.35 | 11.0 |
| 1656GW14 | .09 | 2.1 | <1.0 | 1.3 | 2.7 | 2.3 | 641 | 7.45 | 11.5 |
| 1658GW14 | .16 | 50.0 | 1.3 | 1.2 | 4.6 | 7.1 | 810 | 8.25 | 21.0 |
| 1659GW14 | .61 | 840.0 | 2.4 | 5.7 | 4.4 | 4.7 | 1,555 | 6.95 | 11.0 |
| 1665GW14 | .76 | 4.8 | 10.0 | 105.0 | 2.6 | 8.7 | 4,830 | 7.85 | 21.0 |
| 1669GW14 | 2.00 | 3.9 | 4.7 | 29.0 | 6.9 | 1.6 | 410 | 8.35 | 18.0 |
| 1688GW14 | .55 | 2.6 | 3.3 | <1.0 | 3.1 | 1.5 | 600 | 7.10 | 15.5 |
| 1692GW14 | .35 | 2.4 | 2.4 | 3.2 | 3.4 | 3.7 | 1,270 | 7.60 | 9.0 |
| 1700GW14 | .28 | 2.0 | 3.0 | 1.1 | 4.0 | 2.8 | 840 | 7.20 | 6.5 |
| 1701GW14 | .13 | 11.0 | 2.4 | <1.0 | .8 | .3 | 248 | 7.20 | 12.0 |
| 1703SW14 | .39 | 16.0 | 3.6 | 2.4 | 9.2 | .6 | 695 | 7.30 | 18.0 |
| 1704GW14 | .20 | 3.9 | 2.5 | <1.0 | 1.9 | 2.2 | 480 | 7.30 | 12.0 |
| 1712GW14 | .17 | 5.9 | 1.8 | <1.0 | 1.7 | 1.0 | 370 | 6.52 | 12.0 |
| 1716GW14 | .22 | 2.3 | 1.0 | 1.6 | 2.7 | 2.5 | 560 | 8.70 | 22.0 |
| 1736GW14 | .32 | 3.6 | 2.4 | 1.5 | 4.1 | 9.2 | 730 | 7.15 | 13.0 |
| 1744GW14 | .24 | 50.0 | 1.0 | 1.2 | 2.5 | 1.7 | 445 | 8.00 | 10.0 |
| 1748GW41 | .17 | 1.8 | 1.0 | <1.0 | 4.6 | 6.1 | 760 | 7.85 | 16.0 |
| 1751GW41 | .61 | 6.9 | <1.0 | <1.0 | 5.1 | 3.1 | 265 | 8.20 | 22.0 |
| 1755SW41 | .62 | 3.1 | <1.0 | 1.0 | 1.3 | 1.6 | 145 | 7.70 | 10.0 |
| 1758SW41 | .47 | 7.0 | 1.6 | <1.0 | 1.2 | <.2 | 84 | 7.40 | 11.0 |
| 1759GW41 | .19 | 2.0 | 1.0 | 1.5 | 1.3 | 3.4 | 450 | 8.10 | 12.0 |
| 1768SW44 | .26 | 3.0 | 1.3 | <1.0 | 3.5 | 1.6 | 430 | 8.10 | 13.0 |
| 1782GW41 | .14 | 3.1 | <1.0 | <1.0 | 2.0 | .9 | 213 | 7.85 | 10.0 |
| 1787GW41 | .12 | 8.4 | 2.2 | <1.0 | 1.5 | <.2 | 132 | 7.40 | 9.0 |
| 1788GW41 | .12 | 3.5 | 2.1 | <1.0 | 2.7 | <.2 | 144 | 7.25 | 13.0 |
| 1791GW41 | .07 | 3.9 | 2.1 | <1.0 | 2.0 | .2 | 54 | 7.35 | 9.0 |
| 1802GW43 | .18 | 3.9 | 2.4 | 2.1 | 3.6 | 1.5 | 400 | 7.85 | 10.5 |
| 1807GW43 | .17 | 30.0 | 1.9 | 1.3 | 2.5 | .5 | 258 | 7.95 | 18.5 |
| 1811GW43 | .30 | 2.5 | 1.9 | <1.0 | 2.2 | .7 | 270 | 7.80 | 16.0 |
| 1816GW43 | .42 | 190.0 | 2.1 | <1.0 | 2.6 | .5 | 249 | 8.70 | 18.5 |
| 1821GW43 | .25 | 11.0 | 1.4 | 1.4 | .6 | 1.2 | 880 | 6.95 | 15.5 |
| 1826GW43 | .13 | 4.3 | 1.7 | <1.0 | 2.6 | .8 | 300 | 7.50 | 12.0 |
| 1837GW44 | .10 | 180.0 | 1.2 | 1.6 | 1.1 | <.2 | 220 | 6.75 | 13.5 |
| 1850GW43 | .26 | 100.0 | 1.8 | <1.0 | 3.5 | 1.3 | 355 | 6.85 | 9.0 |
| 1853GW43 | .22 | 13.0 | 4.2 | 1.6 | 3.1 | 1.8 | 475 | 7.90 | 16.0 |
| 1857GW44 | .07 | 5.2 | 1.6 | <1.0 | .7 | <.2 | 77 | 6.75 | 4.0 |
| 1858SW44 | .16 | 6.4 | 3.6 | <1.0 | 17.4 | <.2 | 86 | 7.70 | 15.5 |
| 1859SW44 | .14 | 1.6 | 1.9 | <1.0 | .3 | <.2 | 63 | 7.70 | 15.0 |
| 1860SW44 | .33 | 2.6 | 2.1 | <1.0 | .1 | <.2 | 55 | 7.70 | 15.0 |

Table 2.-- WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | LATITUDE | LONGITUDE | CA(mg/L) | MG(mg/L) | NA(mg/L) | K(mg/L) | LI(ug/L) | SI02(mg/L) | ALK(mg/L) | S04(mg/L) | CL(mg/L) |
|----------|----------|-----------|----------|----------|----------|---------|----------|------------|-----------|-----------|----------|
| 1861SW44 | 38 13 23 | 112 26 5 | 9.0 | 2.0 | 3 | 3.0 | <2 | 28 | 42.0 | 1.9 | .56 |
| 1862SW44 | 38 12 17 | 112 25 41 | 7.0 | 3.0 | 3 | 2.0 | 3 | 34 | 38.0 | 1.5 | .18 |
| 1863SW44 | 38 12 14 | 112 25 44 | 6.0 | 2.0 | 3 | 2.0 | <2 | 32 | 25.0 | 4.5 | .85 |
| 1864SW44 | 38 13 24 | 112 23 46 | 8.0 | 2.0 | 3 | 2.0 | <2 | 28 | 36.0 | 1.7 | .50 |
| 1865GW44 | 38 13 55 | 112 23 29 | 10.0 | 2.0 | 3 | 2.0 | <2 | 30 | 40.0 | 1.0 | .90 |
| 1866SW44 | 38 14 0 | 112 23 8 | 9.0 | 2.9 | 3 | 1.0 | <2 | 30 | 40.0 | 1.5 | .16 |
| 1876GW12 | 38 48 29 | 112 31 27 | 385.0 | 99.0 | 660 | 75.0 | 2,000 | 44 | 410.0 | 880.0 | 1,440.00 |
| 1877GW12 | 38 48 45 | 112 30 18 | 265.0 | 65.0 | 560 | 63.0 | 1,700 | 46 | 378.0 | 370.0 | 1,100.00 |
| 1878GW12 | 38 47 43 | 112 43 2 | 185.0 | 50.0 | 2,210 | 19.0 | 1,100 | 46 | 96.0 | 530.0 | 4,080.00 |
| 1886GW12 | 38 46 3 | 112 34 44 | 230.0 | 130.0 | 1,280 | 130.0 | 4,400 | 12 | 326.0 | 670.0 | 2,430.00 |
| 1887GW12 | 38 49 0 | 112 31 24 | 395.0 | 110.0 | 790 | 68.0 | 2,200 | 40 | 405.0 | 640.0 | 1,630.00 |
| 1888GW12 | 38 51 52 | 112 30 9 | 525.0 | 95.0 | 980 | 140.0 | 3,400 | 52 | 441.0 | 310.0 | 2,450.00 |
| 1899GW11 | 38 50 53 | 112 25 23 | 95.0 | 23.0 | 120 | 5.0 | 100 | 18 | 248.0 | 78.0 | 160.00 |
| 1890GW12 | 38 47 42 | 112 33 5 | 365.0 | 260.0 | 647 | 78.0 | 1,600 | 38 | 229.0 | 573.0 | 1,910.00 |
| 1892GW12 | 38 55 43 | 112 30 18 | 255.0 | 96.0 | 310 | 25.0 | 640 | 42 | 261.0 | 240.0 | 880.00 |
| 1894GW12 | 38 56 34 | 112 32 21 | 410.0 | 200.0 | 623 | 83.0 | 2,600 | 38 | 263.0 | 88.0 | 2,000.00 |
| 1895GW12 | 38 58 40 | 112 35 11 | 35.0 | 14.0 | 440 | 5.0 | 210 | 22 | 305.0 | 290.0 | 370.00 |
| 1896GW12 | 38 56 55 | 112 36 25 | 40.0 | 27.0 | 430 | 10.0 | 240 | 42 | 320.0 | 270.0 | 540.00 |
| 2110GW44 | 38 6 38 | 112 10 41 | 28.0 | 4.0 | 8 | 1.0 | 3 | 50 | 102.0 | 1.9 | 3.20 |
| 2116GW44 | 38 6 53 | 112 6 13 | 33.0 | 4.0 | 8 | 2.0 | 2 | 50 | 120.0 | 1.5 | 4.50 |
| 2119GW44 | 38 7 37 | 112 19 18 | 35.0 | 8.0 | 13 | 3.0 | 4 | 44 | 146.0 | 4.2 | 6.10 |
| 2121SW44 | 38 14 50 | 112 21 43 | 12.0 | 3.0 | 3 | 2.0 | <2 | 40 | 51.0 | 1.5 | .30 |
| 2123GW41 | 38 16 49 | 112 0 7 | 28.0 | 6.0 | 8 | 3.0 | 4 | 54 | 129.0 | 3.6 | 11.00 |
| 2124SW41 | 38 16 38 | 112 0 26 | 38.0 | 10.0 | 15 | 3.0 | 7 | 56 | 172.0 | 10.0 | 23.00 |
| 2125GW41 | 38 17 17 | 112 2 29 | 28.0 | 5.0 | 15 | 2.0 | 3 | 56 | 116.0 | 2.3 | 10.00 |
| 2126GW41 | 38 16 57 | 112 3 28 | 18.0 | 5.0 | 8 | 3.0 | 2 | 60 | 94.0 | 3.5 | 9.50 |
| 2134SW14 | 38 37 49 | 112 17 5 | 31.0 | 6.0 | 10 | 2.0 | 7 | 40 | 117.0 | 3.3 | 19.00 |
| 2144SW14 | 38 32 21 | 112 28 57 | 27.0 | 6.0 | 13 | 2.0 | 7 | 32 | 101.0 | 7.3 | 37.00 |
| 2145SW14 | 38 30 50 | 112 27 32 | 8.0 | 2.0 | 5 | <1.0 | 2 | 28 | 30.0 | 2.3 | 5.30 |
| 2146SW14 | 38 30 59 | 112 21 36 | 7.0 | 2.0 | 3 | <1.0 | 2 | 28 | 30.0 | 2.9 | 4.60 |
| 2148SW14 | 38 35 25 | 112 21 35 | 52.0 | 11.0 | 15 | 4.0 | 15 | 66 | 230.0 | 1.9 | 41.00 |
| 2157SW44 | 38 9 59 | 112 28 24 | 11.0 | 3.0 | 5 | 2.0 | <2 | 28 | 10.0 | 41.0 | 2.60 |
| 2159GW44 | 38 11 17 | 112 26 29 | 7.0 | 2.0 | 3 | <1.0 | 2 | 26 | 29.0 | 2.4 | 2.20 |
| 2161GW44 | 38 10 17 | 112 5 25 | 53.0 | 24.0 | 23 | 1.0 | 25 | 50 | 263.0 | 5.4 | 20.00 |
| 2162GW44 | 38 9 33 | 112 4 17 | 10.0 | 3.0 | 55 | <1.0 | 18 | 26 | 122.0 | 7.6 | 29.00 |
| 2301SW41 | 38 28 41 | 112 20 36 | 7.3 | 2.1 | 5 | 1.0 | 5 | 26 | 33.0 | 5.4 | 7.00 |
| 2302SW41 | 38 28 30 | 112 20 49 | 6.0 | 1.7 | 8 | <1.0 | 6 | 30 | 40.0 | 5.5 | 4.60 |
| 2304GW41 | 38 28 28 | 112 20 52 | 100.0 | 12.0 | 13 | 1.0 | 18 | 16 | 257.0 | 104.0 | 13.00 |
| 2305SW41 | 38 27 50 | 112 22 28 | 10.0 | 2.0 | 5 | <1.0 | 2 | 12 | 41.0 | 4.9 | 2.60 |
| 2306SW41 | 38 27 39 | 112 22 29 | 8.0 | 2.0 | 3 | <1.0 | 2 | 12 | 29.0 | 2.7 | 2.00 |
| 2307SW41 | 38 27 37 | 112 22 19 | 7.0 | 2.0 | 3 | <1.0 | <2 | 12 | 31.0 | 2.1 | 1.80 |
| 2308GW41 | 38 26 35 | 112 15 15 | 35.0 | 5.0 | 33 | <1.0 | 14 | 28 | 127.0 | 84.0 | 6.30 |
| 2310GW41 | 38 25 27 | 112 17 57 | 150.0 | 14.0 | 13 | 1.0 | 22 | 20 | 355.0 | 200.0 | 8.90 |
| 2311SW41 | 38 26 23 | 112 18 44 | 58.0 | 6.0 | 5 | 1.0 | 5 | 10 | 208.0 | 18.0 | 6.50 |
| 2312GW41 | 38 26 19 | 112 18 42 | 85.0 | 9.0 | 8 | 2.0 | 20 | 14 | 167.0 | 140.0 | 4.00 |

Table 2.-- WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | F (mg/L) | ZN (ug/L) | CU (ug/L) | MO (ug/L) | AS (ug/L) | U (ug/L) | SP. COND. (umhos/cm) | pH | TEMP. (C) |
|-----------|----------|-----------|-----------|-----------|-----------|----------|-------------------------|------|-----------|
| 1861SW44 | .04 | 1.2 | 2.5 | <1.0 | 3.1 | <.2 | 76 | 7.90 | 16.0 |
| 1862SW44 | .08 | 13.0 | 7.9 | <1.0 | 59.0 | <.2 | 71 | 7.50 | 6.0 |
| 1863SW44 | .08 | 2.2 | 2.2 | <1.0 | .2 | <.2 | 65 | 7.70 | 8.0 |
| 1864SW44 | .02 | 1.7 | 1.3 | <1.0 | .1 | <.2 | 66 | 7.70 | 5.5 |
| 1865GW44 | .08 | 2.0 | 1.4 | <1.0 | .1 | <.2 | 78 | 6.90 | 4.0 |
| 1866SW44 | .07 | 1.6 | 1.8 | <1.0 | .5 | <.2 | 80 | 7.80 | 8.0 |
| 1876GW12 | 1.10 | 9.1 | 5.2 | 8.4 | 10.9 | .6 | 5,400 | 6.90 | 15.0 |
| 1877GW12 | 1.00 | 17.0 | 3.9 | 6.1 | 15.0 | 1.5 | 4,100 | 6.90 | 15.0 |
| 1878GW12 | 6.60 | 20.0 | 12.0 | 50.0 | 17.7 | 1.1 | 10,100 | 8.80 | 25.0 |
| 1886GW12 | .70 | 45.0 | 14.0 | 4.7 | 3.8 | 3.0 | 7,750 | 7.60 | 21.0 |
| 1887GW12 | 2.20 | 7.9 | 7.0 | 8.0 | 9.6 | 1.0 | 5,850 | 6.80 | 14.0 |
| 1888GW12 | 3.00 | 14.0 | 7.8 | 10.0 | 11.0 | .4 | 7,000 | 6.60 | 29.0 |
| 1889GW11 | .14 | 2.9 | 1.7 | 1.1 | 2.5 | .9 | 960 | 7.40 | 13.5 |
| 1890GW12 | 1.00 | 7.2 | 3.7 | 7.5 | 6.7 | .4 | 6,250 | 7.00 | 14.0 |
| 1892GW12 | .70 | 8.4 | 8.8 | 4.3 | 11.1 | .3 | 3,300 | 7.10 | 16.0 |
| 1894GW12 | 1.60 | 120.0 | 9.0 | 8.2 | 5.7 | .5 | 6,400 | 7.60 | 19.5 |
| 1895GW12 | 2.10 | 1.5 | 6.9 | 5.0 | 4.8 | <.2 | 2,180 | 8.10 | 14.0 |
| 1896GW12 | 1.60 | 8.6 | 6.8 | 1.7 | 58.0 | <.2 | 2,440 | 7.90 | 13.0 |
| 2110GW44 | .15 | 2.5 | 1.0 | <1.0 | 2.5 | .3 | 190 | 7.82 | 12.0 |
| 22116GW44 | .20 | 1.0 | <1.0 | <1.0 | 2.3 | 2.9 | 225 | 7.66 | 13.0 |
| 2119GW44 | .16 | 3.3 | <1.0 | <1.0 | 2.7 | .6 | 275 | 7.65 | 14.0 |
| 2121SW44 | .09 | 2.4 | <1.0 | <1.0 | 1.1 | <.2 | 105 | 7.70 | 11.5 |
| 2123GW41 | .17 | 1.7 | <1.0 | <1.0 | 2.7 | .4 | 250 | 7.45 | 15.0 |
| 2124SW41 | .22 | 1.0 | 1.4 | <1.0 | 2.5 | .6 | 340 | 8.10 | 14.5 |
| 2125GW41 | .17 | 1.4 | <1.0 | <1.0 | 2.3 | .4 | 223 | 8.70 | 19.0 |
| 2126GW41 | .18 | 1.2 | 1.0 | <1.0 | 2.0 | <.2 | 185 | 7.85 | 9.5 |
| 2134SW14 | .09 | 1.3 | .4 | <1.0 | 1.7 | .6 | 258 | 8.10 | 11.0 |
| 2144SW14 | .21 | 1.1 | 1.4 | <1.0 | 2.6 | .5 | 255 | 8.30 | 21.0 |
| 2145SW14 | .55 | 1.5 | .5 | <1.0 | 1.5 | <.2 | 88 | 7.80 | 12.0 |
| 2145SW14 | .15 | 1.4 | .4 | <1.0 | 1.7 | <.2 | 68 | 8.00 | 10.5 |
| 2148SW14 | .23 | 1.8 | 1.9 | <1.0 | 3.4 | .5 | 430 | 8.10 | 15.5 |
| 2157SW44 | .44 | 1.8 | 1.4 | <1.0 | 1.2 | <.2 | 115 | 7.45 | 15.0 |
| 2159GW44 | .12 | 2.5 | 2.3 | 1.5 | 1.4 | <.2 | 61 | 6.40 | 16.0 |
| 2161GW44 | .33 | 2.1 | 2.9 | 1.0 | 13.2 | .9 | 455 | 8.10 | 15.0 |
| 2162GW44 | 1.20 | 1.2 | 1.3 | 1.9 | 165.0 | .7 | 295 | 8.30 | 15.5 |
| 2301SW41 | .21 | 1.4 | 1.0 | <1.0 | 1.2 | <.2 | 105 | 7.65 | 13.5 |
| 2302SW41 | .18 | 1.4 | <1.0 | <1.0 | 1.5 | .6 | 102 | 7.75 | 11.0 |
| 2304GW41 | 1.70 | 2.8 | <1.0 | 3.4 | .2 | 2.2 | 640 | 7.10 | 8.5 |
| 2305SW41 | .60 | 1.7 | 1.1 | 1.7 | .7 | .8 | 93 | 7.85 | 10.0 |
| 2306SW41 | .44 | 1.6 | 1.1 | <1.0 | .8 | <.2 | 67 | 7.85 | 7.0 |
| 2307SW41 | .33 | 2.0 | <1.0 | <1.0 | .7 | <.2 | 68 | 7.25 | 6.0 |
| 2308GW41 | .74 | 3.4 | 1.0 | 5.6 | 11.3 | 1.1 | 400 | 7.55 | 14.5 |
| 2310GW41 | 1.40 | 11.0 | 1.3 | 29.0 | 2.1 | 1.7 | 850 | 7.25 | 11.0 |
| 2311SW41 | .26 | 2.8 | 1.0 | <1.0 | 2.0 | 1.5 | 250 | 8.15 | 10.0 |
| 2312GW41 | 1.80 | 8.2 | <1.0 | 47.5 | 1.8 | .6 | 240 | 7.70 | 22.0 |

Table 2.-- WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | LATITUDE | LONGITUDE | CA(mg/L) | MG(mg/L) | NA(mg/L) | K(mg/L) | LI(ug/L) | SI02(mg/L) | ALK(mg/L) | SO4(mg/L) | CL(mg/L) |
|----------|----------|-----------|----------|----------|----------|---------|----------|------------|-----------|-----------|----------|
| 2313SW41 | 38 24 58 | 112 18 37 | 73.0 | 9.0 | 5 | 2.0 | 13 | 8 | 89.0 | 150.0 | 1.90 |
| 2327SW41 | 38 23 40 | 112 19 12 | 22.0 | 3.0 | 3 | <1.0 | 2 | 6 | 37.0 | 33.0 | 1.20 |
| 2328GW41 | 38 23 32 | 112 20 44 | 63.0 | 8.0 | 5 | <1.0 | 15 | 8 | 98.0 | 120.0 | 2.00 |
| 2331GW41 | 38 21 42 | 112 17 40 | 23.0 | 7.0 | 3 | 1.0 | 15 | 10 | 50.0 | 36.0 | 2.50 |
| 2332SW41 | 38 21 51 | 112 19 37 | 50.0 | 8.0 | 3 | 1.0 | 5 | 10 | 108.0 | 64.0 | 2.60 |
| 2335GW41 | 38 22 3 | 112 15 9 | 85.0 | 19.0 | 5 | 2.0 | 12 | 12 | 143.0 | 190.0 | 10.00 |
| 2338GW41 | 38 16 12 | 112 18 39 | 35.0 | 8.0 | 8 | <1.0 | 2 | 32 | 142.0 | 3.2 | 2.10 |
| 2341GW41 | 38 18 59 | 112 17 21 | 50.0 | 20.0 | 5 | <1.0 | 2 | 36 | 246.0 | 5.3 | 6.40 |
| 2342GW44 | 38 13 54 | 112 20 0 | 9.0 | 3.0 | 3 | 2.0 | <2 | 38 | 41.0 | .9 | .47 |
| 2344GW41 | 38 17 14 | 112 21 26 | 7.0 | 1.0 | 3 | 1.0 | <2 | 22 | 27.0 | 2.2 | .32 |
| 2347SW42 | 38 20 26 | 112 31 19 | 68.0 | 23.0 | 10 | 2.0 | 9 | 46 | 284.0 | 17.0 | 17.00 |
| 2354SW41 | 38 21 17 | 112 27 58 | 88.0 | 26.0 | 10 | 2.0 | 14 | 16 | 235.0 | 140.0 | 4.80 |
| 2355SW41 | 38 21 4 | 112 27 6 | 28.0 | 6.0 | 5 | <1.0 | 3 | 22 | 92.0 | 10.0 | 1.80 |
| 2356SW41 | 38 21 3 | 112 27 7 | 48.0 | 9.0 | 8 | <1.0 | <2 | 12 | 174.0 | 10.0 | 2.20 |
| 2359GW44 | 38 0 46 | 112 18 35 | 5.0 | 1.0 | 23 | <1.0 | <2 | 26 | 61.0 | 11.0 | 3.80 |
| 2362GW44 | 38 3 15 | 112 21 38 | 43.0 | 11.0 | 13 | 4.0 | 4 | 54 | 190.0 | 5.3 | 13.00 |
| 2374GW44 | 38 0 15 | 112 15 8 | 18.0 | 4.0 | 3 | <1.0 | <2 | 32 | 73.0 | 2.8 | 1.40 |
| 2375SW42 | 38 29 20 | 112 32 7 | 53.0 | 9.0 | 8 | <1.0 | 7 | 36 | 203.0 | 3.8 | 5.00 |
| 2377SW42 | 38 28 2 | 112 31 43 | 20.0 | 4.0 | 6 | <1.0 | 5 | 24 | 77.0 | 2.2 | 2.50 |
| 2378SW42 | 38 27 59 | 112 31 43 | 9.0 | 2.0 | 3 | <1.0 | 2 | 20 | 33.0 | 2.6 | 2.70 |
| 2383SW41 | 38 28 45 | 112 28 15 | 9.0 | 1.0 | 8 | 1.0 | 5 | 30 | 36.0 | 1.9 | 3.50 |
| 2384SW41 | 38 28 40 | 112 28 21 | 8.0 | 1.0 | 3 | 2.0 | 4 | 32 | 27.0 | 1.9 | 2.90 |
| 2386SW41 | 38 27 58 | 112 28 11 | 6.0 | <1.0 | 3 | <1.0 | 2 | 18 | 23.0 | 2.5 | 1.80 |
| 2387SW41 | 38 28 2 | 112 25 18 | 13.0 | 2.0 | 3 | <1.0 | 4 | 10 | 54.0 | 3.5 | 2.60 |
| 2389SW41 | 38 23 27 | 112 25 29 | 7.0 | <1.0 | <1 | <1.0 | <2 | 12 | 24.0 | 1.4 | .15 |
| 2390SW41 | 38 22 54 | 112 26 39 | 7.0 | 1.0 | 3 | <1.0 | <2 | 16 | 11.0 | 12.0 | .90 |
| 2391SW41 | 38 24 28 | 112 24 51 | 4.0 | <1.0 | 3 | <1.0 | <2 | 18 | 3.6 | 12.0 | 1.40 |
| 2392SW41 | 38 26 29 | 112 26 36 | 5.0 | <1.0 | 3 | <1.0 | <2 | 16 | 12.0 | 1.7 | .80 |
| 2393SW41 | 38 27 5 | 112 22 40 | 9.0 | <1.0 | 2 | <1.0 | <2 | 10 | 25.0 | 2.0 | .50 |
| 2402GW41 | 38 15 49 | 112 5 22 | 38.0 | 8.0 | 10 | 1.0 | 11 | 56 | 180.0 | 4.1 | 8.60 |
| 2407GW11 | 38 50 55 | 112 17 8 | 6.0 | 1.0 | 5 | <1.0 | <2 | 6 | 23.0 | 5.3 | 7.60 |
| 2414GW11 | 38 49 33 | 112 18 33 | 10.0 | 2.0 | 3 | <1.0 | <2 | 8 | 34.0 | 4.4 | 9.80 |
| 2420GW11 | 38 46 27 | 112 19 19 | 70.0 | 24.0 | 13 | 2.0 | 10 | 12 | 350.0 | 11.0 | 16.00 |
| 2424SW14 | 38 32 22 | 112 20 22 | 13.0 | 8.0 | 63 | 3.0 | 20 | 40 | 126.0 | 8.9 | 51.00 |
| 2430SW14 | 38 32 43 | 112 2 0 | 9.0 | 3.0 | 3 | <1.0 | 3 | 26 | 42.0 | 3.2 | 3.90 |
| 2432SW14 | 38 30 28 | 112 4 37 | 46.0 | 8.0 | 5 | <1.0 | 4 | 30 | 171.0 | 6.7 | 3.50 |
| 2435SW41 | 38 27 1 | 112 27 20 | 5.0 | 4.0 | 3 | <1.0 | <2 | 24 | 24.0 | 5.0 | 3.00 |
| 2436SW41 | 38 24 27 | 112 21 6 | 40.0 | 3.0 | 3 | <1.0 | <2 | 8 | 109.0 | 32.0 | 1.70 |
| 2437SW41 | 38 23 41 | 112 22 1 | 18.0 | 1.0 | 2 | <1.0 | <2 | 6 | 49.0 | 13.0 | .34 |
| 2438SW41 | 38 21 41 | 112 21 6 | 17.0 | 1.0 | 2 | <1.0 | 2 | 6 | 42.0 | 17.0 | .07 |
| 2439SW41 | 38 19 28 | 112 19 32 | 28.0 | 9.0 | 3 | <1.0 | <2 | 16 | 106.0 | 6.2 | .42 |
| 2444SW41 | 38 17 58 | 112 20 19 | 18.0 | 5.0 | 3 | <1.0 | <2 | 24 | 87.0 | 2.3 | 1.00 |
| 2458GW44 | 38 4 18 | 112 7 9 | 18.0 | 7.0 | 5 | 2.0 | <2 | 44 | 76.0 | 4.6 | 3.30 |
| 2460GW44 | 38 4 18 | 112 10 2 | 11.0 | 3.0 | 3 | <1.0 | <2 | 38 | 55.0 | 5.4 | 1.60 |
| 2461GW44 | 38 3 29 | 112 9 6 | 9.0 | 3.0 | 3 | 4.0 | <2 | 52 | 44.0 | 3.5 | 2.30 |

Table 2.--WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | F (mg/L) | ZN (ug/L) | CU (ug/L) | MO (ug/L) | AS (ug/L) | U (ug/L) | SP. COND. (microhm/cm) | pH | TEMP. (C) |
|----------|----------|-----------|-----------|-----------|-----------|----------|---------------------------|------|-----------|
| 2313SW41 | .80 | 4.0 | 1.3 | 8.3 | 1.6 | .2 | 433 | 7.95 | 11.0 |
| 2327SW41 | .10 | 4.0 | 1.4 | <1.0 | .9 | <.2 | 158 | 7.50 | 7.0 |
| 2328GW41 | .50 | 3.0 | 1.5 | 1.1 | 1.3 | .6 | 395 | 7.40 | 3.5 |
| 2331SW41 | .38 | 60.0 | 1.3 | <1.0 | 1.4 | <.2 | 182 | 7.30 | 7.5 |
| 2332SW41 | .14 | 4.0 | 3.6 | <1.0 | 1.2 | .3 | 310 | 7.70 | 10.5 |
| 2335GW41 | .77 | 1.8 | 6.9 | 16.0 | 1.5 | .9 | 545 | 7.50 | 14.5 |
| 2338GW41 | .20 | 24.0 | 1.4 | <1.0 | 3.5 | 1.7 | 240 | 7.67 | 10.0 |
| 2341GW41 | .13 | 1.5 | 1.4 | <1.0 | 1.7 | .6 | 390 | 8.22 | 8.0 |
| 2342GW44 | .08 | 1.4 | <1.0 | <1.0 | 1.5 | 4.8 | 84 | 7.60 | 5.5 |
| 2344GW41 | .04 | 3.1 | .1 | <1.0 | 1.5 | <.2 | 59 | 7.11 | 4.5 |
| 2347SW42 | .22 | <.5 | 2.7 | 2.1 | 2.6 | 4.7 | 520 | 8.30 | 10.5 |
| 2354SW41 | .76 | .5 | 4.5 | 7.7 | 2.5 | 29.2 | 62 | 8.10 | 15.5 |
| 2355SW41 | .13 | <.5 | 1.0 | <1.0 | 1.1 | .4 | 180 | 8.20 | 12.0 |
| 2356SW41 | .13 | <.5 | 2.3 | <1.0 | 1.6 | 1.3 | 310 | 8.20 | 12.5 |
| 2359GW44 | .38 | 2.2 | .2 | 1.6 | 2.4 | .6 | 145 | 8.35 | 21.0 |
| 2362GW44 | .16 | 3.5 | .7 | <1.0 | 3.9 | 2.4 | 335 | 7.75 | 13.5 |
| 2374GW44 | .08 | 4.3 | .3 | <1.0 | 1.2 | <.2 | 145 | 7.20 | 5.0 |
| 2375SW42 | .13 | <.5 | .6 | <1.0 | 1.6 | 3.9 | 335 | 8.20 | 4.0 |
| 2377SW42 | .13 | <.5 | 1.5 | <1.0 | 1.2 | .4 | 160 | 7.75 | 7.0 |
| 2378SW42 | .03 | <.5 | .3 | <1.0 | 1.1 | <.2 | 93 | 7.80 | 6.0 |
| 2383SW41 | .26 | 20.0 | .2 | <1.0 | 1.2 | .3 | 86 | 7.80 | 10.0 |
| 2384SW41 | .22 | .5 | .1 | <1.0 | 1.2 | .2 | 80 | 7.80 | 10.0 |
| 2386SW41 | .17 | <.5 | .3 | <1.0 | 1.1 | <.2 | 59 | 7.80 | 14.0 |
| 2387SW41 | .18 | <.5 | .3 | <1.0 | .9 | .5 | 108 | 7.90 | 14.0 |
| 2389SW41 | .04 | <.5 | .7 | <1.0 | .8 | .5 | 49 | 8.05 | 13.0 |
| 2390SW41 | .47 | 1.6 | .4 | <1.0 | 1.0 | <.2 | 70 | 7.65 | 17.0 |
| 2391SW41 | .39 | 3.9 | <.1 | <1.0 | 1.0 | .4 | 39 | 8.15 | 14.0 |
| 2392SW41 | 1.80 | .6 | .1 | 1.3 | .8 | 1.0 | 45 | 7.80 | 14.0 |
| 2393SW41 | .76 | <.5 | .2 | <1.0 | 1.0 | .3 | 63 | 7.90 | 13.0 |
| 2402GW41 | .19 | 50.0 | 1.3 | <1.0 | 3.0 | 1.0 | 322 | 7.30 | 12.5 |
| 2407GW11 | .03 | 1.3 | 2.1 | <1.0 | 1.1 | <.2 | 69 | 6.10 | 4.5 |
| 2414GW11 | .05 | .5 | 1.3 | <1.0 | .9 | <.2 | 110 | 6.20 | 6.5 |
| 2420GW11 | .10 | 1.0 | 1.6 | <1.0 | 1.0 | <.2 | 620 | 7.55 | 9.5 |
| 2424SW14 | 1.00 | 2.5 | .8 | <1.0 | 3.7 | 2.7 | 340 | 7.93 | 12.5 |
| 2430SW14 | .25 | 1.3 | .6 | <1.0 | 1.8 | .4 | 84 | 7.65 | 5.0 |
| 2432SW14 | .13 | .9 | 1.2 | <1.0 | 1.9 | 2.2 | 290 | 8.20 | 4.0 |
| 2435SW41 | .65 | 3.0 | .5 | <1.0 | .5 | .3 | 67 | 7.05 | 7.0 |
| 2436SW41 | .23 | 1.0 | 3.5 | 1.3 | 1.3 | <.2 | 245 | 8.45 | 13.0 |
| 2437SW41 | <.01 | .7 | .7 | <1.0 | .7 | <.2 | 115 | 8.25 | 5.5 |
| 2438SW41 | .16 | 1.2 | .5 | <1.0 | 2.1 | .2 | 109 | 8.20 | 5.5 |
| 2439SW41 | .10 | 1.5 | 2.6 | 1.0 | .8 | <.2 | 190 | 8.20 | 5.0 |
| 2444SW41 | .07 | .6 | 1.1 | <1.0 | .3 | <.2 | 146 | 8.10 | 6.5 |
| 2458GW44 | .14 | 7.4 | .5 | <1.0 | 1.1 | <.2 | 338 | 6.45 | 11.5 |
| 2460GW44 | .04 | 210.0 | .6 | <1.0 | .6 | <.2 | 107 | 6.25 | 8.5 |
| 2461GW44 | .10 | 6.7 | 1.0 | <1.0 | .9 | <.2 | 91 | 6.55 | 11.0 |

Table 2.--WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | LATITUDE | | LONGITUDE | | CA(mg/L) | MG(mg/L) | NA(mg/L) | K(mg/L) | LI(ug/L) | SI02(mg/L) | ALK(mg/L) | S04(mg/L) | CL(mg/L) |
|----------|----------|-------|-----------|-------|----------|----------|----------|---------|----------|------------|-----------|-----------|----------|
| 2462GW44 | 38 | 2 17 | 112 | 11 7 | 12.0 | 3.0 | 3 | <1.0 | <2 | 36 | 55.0 | 3.1 | 1.90 |
| 2463GW44 | 38 | 1 23 | 112 | 12 13 | 12.0 | 4.0 | 3 | 1.0 | <2 | 38 | 57.0 | 3.7 | 1.10 |
| 2465GW44 | 38 | 5 26 | 112 | 11 55 | 47.0 | 9.0 | 8 | <1.0 | 4 | 38 | 274.0 | 5.7 | 4.00 |
| 2618SW11 | 38 | 54 37 | 112 | 10 32 | 50.0 | 22.0 | 3 | <1.0 | 5 | 8 | 245.0 | 3.2 | 5.40 |
| 2626SW11 | 38 | 58 38 | 112 | 7 57 | 50.0 | 13.0 | 3 | <1.0 | <2 | 6 | 228.0 | 1.5 | 3.80 |
| 2627SW11 | 38 | 57 16 | 112 | 14 48 | 18.0 | 3.0 | 8 | 1.0 | 4 | 18 | 52.0 | 6.6 | 18.00 |
| 2628SW11 | 38 | 58 3 | 112 | 11 45 | 40.0 | 8.0 | 3 | <1.0 | <2 | 8 | 163.0 | 3.1 | 16.00 |
| 2632GW14 | 38 | 40 4 | 112 | 19 30 | 18.0 | 4.0 | 10 | 2.0 | 5 | 42 | 89.0 | 3.5 | 18.00 |
| 2635GW14 | 38 | 40 58 | 112 | 22 19 | 28.0 | 6.0 | 13 | 3.0 | 6 | 46 | 123.0 | 7.3 | 19.00 |
| 2637GW14 | 38 | 38 51 | 112 | 21 32 | 18.0 | 7.0 | 10 | 3.0 | 5 | 38 | 79.0 | 4.8 | 14.00 |
| 2802GW11 | 38 | 58 22 | 112 | 26 48 | 85.0 | 30.0 | 55 | 7.0 | 150 | 16 | 294.0 | 85.0 | 83.00 |
| 2804GW11 | 38 | 55 57 | 112 | 25 30 | 55.0 | 13.0 | 18 | 4.0 | 50 | 14 | 233.0 | 15.0 | 44.00 |
| 2805GW11 | 38 | 45 30 | 112 | 26 19 | 70.0 | 27.0 | 18 | 1.0 | 14 | 14 | 311.0 | 25.0 | 49.00 |
| 2807GW11 | 38 | 45 14 | 112 | 21 48 | 68.0 | 21.0 | 10 | 1.0 | 9 | 12 | 312.0 | 16.0 | 30.00 |
| 2813GW11 | 38 | 48 17 | 112 | 22 58 | 70.0 | 19.0 | 50 | 2.0 | 27 | 20 | 292.0 | 67.0 | 75.00 |
| 2816GW11 | 38 | 51 42 | 112 | 23 3 | 53.0 | 9.0 | 5 | <1.0 | 3 | 12 | 194.0 | 4.7 | 12.00 |
| 2818GW11 | 38 | 57 43 | 112 | 15 45 | 90.0 | 36.0 | 30 | 1.0 | 24 | 26 | 353.0 | 92.0 | 46.00 |
| 2821GW11 | 38 | 55 17 | 112 | 15 37 | 50.0 | 16.0 | 8 | <1.0 | 3 | 14 | 240.0 | 5.2 | 16.00 |
| 2823GW11 | 38 | 54 55 | 112 | 17 17 | 68.0 | 24.0 | 23 | 1.0 | 21 | 24 | 198.0 | 30.0 | 60.00 |
| 2825GW11 | 38 | 54 21 | 112 | 19 19 | 48.0 | 10.0 | 18 | 2.0 | 7 | 14 | 170.0 | 9.6 | 68.00 |
| 2826GW43 | 38 | 0 34 | 112 | 30 31 | 55.0 | 15.0 | 15 | 6.0 | 6 | 40 | 294.0 | 1.0 | 28.00 |
| 2827GW44 | 38 | 0 7 | 112 | 28 38 | 75.0 | 12.0 | 10 | 3.0 | 2 | 44 | 333.0 | 6.5 | 10.00 |
| 2831SW41 | 38 | 28 56 | 112 | 23 27 | 9.8 | 1.4 | 3 | <1.0 | <2 | 10 | 47.0 | 3.4 | 2.60 |
| 2833SW41 | 38 | 28 37 | 112 | 24 6 | 1.3 | 1.0 | 5 | <1.0 | <2 | 14 | 15.0 | 1.6 | 1.90 |
| 2834SW41 | 38 | 28 34 | 112 | 24 9 | 4.5 | 2.0 | 3 | <1.0 | <2 | 8 | 29.0 | 5.8 | 7.30 |
| 2835GW41 | 38 | 28 29 | 112 | 24 10 | 4.3 | 15.0 | 20 | 1.0 | <2 | 8 | 25.0 | 1.0 | 1.50 |
| 2838SW41 | 38 | 29 0 | 112 | 25 44 | 43.0 | 12.0 | 8 | 2.0 | 8 | 12 | 160.0 | 50.0 | 9.70 |
| 2840GW41 | 38 | 28 3 | 112 | 9 10 | 88.0 | 15.0 | 20 | 1.0 | 14 | 34 | 175.0 | 212.0 | 11.00 |
| 2842GW41 | 38 | 29 18 | 112 | 8 21 | 35.0 | 8.0 | 8 | <1.0 | 5 | 40 | 140.0 | 18.0 | 9.80 |
| 2848GW41 | 38 | 23 44 | 112 | 8 36 | 70.0 | 21.0 | 33 | 2.0 | 18 | 66 | 337.0 | 27.0 | 55.00 |
| 2850GW41 | 38 | 25 16 | 112 | 13 4 | 48.0 | 12.0 | 80 | 1.0 | 11 | 18 | 224.0 | 160.0 | 21.00 |
| 2852GW41 | 38 | 21 26 | 112 | 2 32 | 18.0 | 4.0 | 5 | 2.0 | 2 | 52 | 82.0 | 2.1 | 5.10 |
| 28A1GW44 | 38 | 11 28 | 112 | 9 6 | 23.0 | 2.0 | 23 | 2.0 | 6 | 54 | 122.0 | 3.6 | 8.20 |
| 2866GW44 | 38 | 13 16 | 112 | 17 47 | 28.0 | 9.0 | 10 | 7.0 | 2 | 56 | 183.0 | 2.4 | 3.10 |
| 2871GW44 | 38 | 12 7 | 112 | 21 19 | 10.0 | 3.0 | 5 | 3.0 | <2 | 42 | 64.0 | 1.4 | 1.60 |
| 2885GW44 | 38 | 12 57 | 112 | 2 9 | 20.0 | 3.0 | 8 | 2.0 | 4 | 50 | 85.0 | 2.9 | 7.60 |

Table 2.-- WATER ANALYSES FROM THE RICHFIELD 2 DEGREE QUADRANGLE, UTAH--continued

| Sample | F(mg/l.) | ZN(ug/L) | CU(ug/L) | MO(ug/L) | AS(ug/L) | U(ug/L) | SP.COND. (umhos/cm) | pH | TEMP.(C) |
|----------|----------|----------|----------|----------|----------|---------|------------------------|------|----------|
| 2462GW44 | .04 | 4.4 | .5 | <1.0 | .5 | <.2 | 113 | 6.60 | 6.0 |
| 2463GW44 | .06 | 5.2 | .9 | <1.0 | .9 | <.2 | 111 | 6.80 | 6.5 |
| 2465GW44 | .17 | 3.6 | 1.5 | <1.0 | 1.5 | 1.8 | 370 | 7.65 | 8.5 |
| 2618SW11 | .10 | <.5 | 1.0 | <1.0 | 1.0 | .5 | 420 | 8.25 | 13.5 |
| 2626SW11 | .10 | .9 | .5 | <1.0 | 1.1 | <.2 | 385 | 8.15 | 13.0 |
| 2627SW11 | .17 | .9 | .7 | <1.0 | 1.5 | <.2 | 173 | 8.35 | 23.0 |
| 2628SW11 | .04 | 1.0 | 1.0 | <1.0 | 1.0 | <.2 | 280 | 8.35 | 9.0 |
| 2632GW14 | .11 | 5.1 | 1.5 | <1.0 | 2.0 | <.2 | 205 | 6.95 | 9.0 |
| 2635GW14 | .18 | 2.3 | .8 | <1.0 | 2.0 | .4 | 279 | 7.10 | 12.0 |
| 2637GW14 | .14 | 4.6 | .9 | <1.0 | 1.5 | <.2 | 198 | 7.20 | 18.0 |
| 2802GW11 | .10 | 2.6 | 1.2 | <1.0 | 1.5 | .7 | 855 | 8.20 | 16.0 |
| 2804GW11 | .27 | 5.6 | 1.9 | <1.0 | 1.0 | <.2 | 450 | 7.70 | 14.0 |
| 2805GW11 | .11 | 3.1 | 1.2 | <1.0 | 2.6 | .3 | 650 | 7.30 | 11.0 |
| 2809GW11 | .07 | 50.0 | 4.6 | <1.0 | 1.5 | .4 | 545 | 7.30 | 16.0 |
| 2813GW11 | .35 | 5.7 | 1.1 | 1.2 | 3.2 | 1.5 | 730 | 7.50 | 14.5 |
| 2816GW11 | .12 | 99.0 | 5.7 | <1.0 | .1 | .2 | 350 | 7.30 | 20.0 |
| 2818GW11 | .24 | 2.9 | 6.5 | 1.8 | 2.8 | 1.0 | 860 | 7.20 | 13.0 |
| 2821GW11 | .07 | 2.4 | 2.9 | <1.0 | .6 | .4 | 405 | 8.00 | 11.0 |
| 2823GW11 | .19 | 3.3 | 1.8 | <1.0 | 2.9 | .8 | 630 | 7.30 | 16.0 |
| 2825GW11 | .13 | 1.2 | 3.4 | <1.0 | 1.8 | <.2 | 425 | 7.70 | 21.0 |
| 2826GW43 | .21 | 3.9 | 2.1 | <1.0 | 2.0 | .7 | 530 | 7.80 | 12.5 |
| 2827GW44 | .17 | 7.7 | 1.7 | <1.0 | 1.7 | 1.6 | 575 | 7.20 | 10.0 |
| 2831SW41 | .27 | 3.9 | 1.5 | <1.0 | .7 | .3 | 115 | 7.79 | 8.5 |
| 2833SW41 | .44 | 2.5 | 1.4 | <1.0 | 1.1 | .2 | 40 | 7.30 | 4.0 |
| 2834SW41 | .21 | 2.5 | 3.6 | <1.0 | .6 | .7 | 66 | 8.00 | 7.0 |
| 2835GW41 | .17 | <.5 | 2.5 | 27.0 | .2 | .8 | 60 | 7.40 | 1.0 |
| 2838SW41 | 1.10 | 2.5 | 2.5 | 3.6 | .8 | .6 | 385 | 8.10 | 11.5 |
| 2840GW41 | 2.30 | .5 | 5.2 | 27.0 | 2.0 | 9.2 | 660 | 7.35 | 14.0 |
| 2842GW41 | .31 | 8.2 | 2.3 | <1.0 | 2.5 | 1.8 | 295 | 7.10 | 9.0 |
| 2848GW41 | .65 | 3.2 | 2.9 | 2.0 | 15.2 | 7.6 | 640 | 7.50 | 13.0 |
| 2850GW41 | .32 | 1.8 | 6.0 | 1.3 | 3.8 | 2.4 | 710 | 8.25 | 13.0 |
| 2852GW41 | .12 | 5.5 | 2.3 | <1.0 | 1.4 | <.2 | 162 | 7.85 | 9.0 |
| 2861GW44 | .27 | 3.0 | 2.4 | <1.0 | 4.7 | .7 | 225 | 8.00 | 13.0 |
| 2866GW44 | .27 | 5.2 | 2.7 | <1.0 | 6.7 | .7 | 275 | 7.50 | 13.0 |
| 2871GW44 | .17 | 1.6 | 1.0 | <1.0 | .9 | <.2 | 100 | 7.80 | 6.5 |
| 2885GW44 | .18 | 8.6 | 1.4 | <1.0 | 2.4 | .3 | 180 | 8.05 | 15.0 |

Table 3.--Summary of chemical analyses of 486 water samples from the Richfield 2° quadrangle, Utah

[Values qualified with < were replaced with seven-tenths of the qualified value in the determination of means, etc.]

| Variable | Minimum | Maximum | Mean | Geometric Mean | Standard Deviation | Geometric Deviation |
|-------------------------|---------|---------|-------|----------------|--------------------|---------------------|
| Ca (mg/L) | 1.3 | 540. | 63.7 | 39.8 | 73.4 | 2.78 |
| Mg (mg/L) | <1.0 | 260. | 18.0 | 8.99 | 27.6 | 3.34 |
| Na (mg/L) | <1.0 | 2210. | 58.1 | 15.4 | 188. | 4.00 |
| K (mg/L) | <1.0 | 260. | 4.87 | 1.76 | 18.3 | 2.87 |
| Li (µg/L) | <2.0 | 21000. | 128. | 8.84 | 1042. | 5.19 |
| SiO ₂ (mg/L) | 2.0 | 180. | 30.1 | 24.8 | 18.0 | 1.96 |
| Alkalinity (mg/L) | 1.0 | 1530. | 176. | 130. | 123. | 2.53 |
| SO ₄ (mg/L) | 0.80 | 3030. | 67.9 | 15.9 | 201. | 4.82 |
| Cl (mg/L) | 0.03 | 4080. | 120. | 18.4 | 385. | 7.03 |
| F (mg/L) | <0.05 | 13. | 0.542 | 0.261 | 1.07 | 3.00 |
| Zn (µg/L) | <0.50 | 2890. | 31.9 | 4.64 | 184. | 4.19 |
| Cu (µg/L) | <0.10 | 22. | 2.13 | 1.43 | 2.51 | 2.34 |
| Mo (µg/L) | <1.0 | 105. | 2.73 | 1.32 | 7.86 | 2.49 |
| As (µg/L) | 0.10 | 740. | 7.65 | 1.93 | 40.7 | 3.63 |
| U (µg/L) | <0.20 | 740. | 4.25 | 0.980 | 34.0 | 4.40 |
| Sp. Cond. µmhos/cm | 31.0 | 10100. | 711. | 379. | 1196. | 2.92 |
| pH | 5.85 | 9.30 | 7.64 | -- | 0.479 | -- |
| Temp. (°C) | 1.0 | 82. | 13.2 | 12.1 | 6.07 | 1.57 |

Table 4.--Matrix of correlation coefficients of the log-transformed data

[The values below the diagonal are the numbers of unqualified pairs of analyses used to obtain the correlation coefficient:

| | Ca | Mg | Na | K | Li | SiO ₂ | Alk. | SO ₄ | Cl | F | Zn | Cu | Mo | As | U | Sp. Cond. | pH | Temp. |
|------------------|-----|-----|-----|-----|-----|------------------|------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----------|------|-------|
| Ca | 1.0 | .89 | .72 | .45 | .68 | .20 | .86 | .69 | .77 | .34 | .22 | .39 | .48 | .38 | .54 | .92 | .12 | .43 |
| Mg | 473 | 1.0 | .74 | .48 | .70 | .24 | .81 | .68 | .79 | .34 | .23 | .43 | .51 | .41 | .50 | .89 | .10 | .39 |
| Na | 485 | 473 | 1.0 | .69 | .89 | .42 | .62 | .71 | .90 | .55 | .28 | .50 | .55 | .65 | .50 | .88 | .03 | .50 |
| K | 323 | 323 | 323 | 1.0 | .72 | .45 | .35 | .44 | .60 | .41 | .33 | .52 | .41 | .57 | .18 | .60 | -.04 | .41 |
| Li | 400 | 400 | 400 | 323 | 1.0 | .32 | .53 | .71 | .83 | .58 | .32 | .54 | .57 | .63 | .38 | .83 | -.04 | .45 |
| SiO ₂ | 486 | 473 | 485 | 323 | 400 | 1.0 | .25 | .12 | .38 | .25 | .18 | .12 | .07 | .50 | .31 | .26 | -.04 | .35 |
| Alk. | 486 | 473 | 485 | 323 | 400 | 486 | 1.0 | .45 | .66 | .16 | .16 | .32 | .30 | .37 | .50 | .82 | .21 | .41 |
| SO ₄ | 486 | 473 | 485 | 323 | 400 | 486 | 486 | 1.0 | .68 | .56 | .24 | .43 | .64 | .38 | .48 | .74 | .05 | .37 |
| Cl | 486 | 473 | 485 | 323 | 400 | 486 | 486 | 486 | 1.0 | .47 | .26 | .43 | .48 | .56 | .52 | .87 | .02 | .53 |
| F | 484 | 473 | 484 | 323 | 400 | 484 | 484 | 484 | 484 | 1.0 | .19 | .31 | .54 | .40 | .38 | .44 | .00 | .33 |
| Zn | 474 | 473 | 474 | 323 | 400 | 474 | 474 | 474 | 474 | 474 | 1.0 | .36 | .15 | .20 | .11 | .29 | -.18 | .26 |
| Cu | 438 | 438 | 438 | 323 | 400 | 438 | 438 | 438 | 438 | 438 | 438 | 1.0 | .39 | .39 | .10 | .49 | .01 | .27 |
| Mo | 226 | 226 | 226 | 226 | 226 | 226 | 226 | 226 | 226 | 226 | 226 | 226 | 1.0 | .34 | .41 | .54 | .05 | .20 |
| As | 484 | 473 | 484 | 323 | 400 | 484 | 484 | 484 | 484 | 484 | 474 | 438 | 226 | 1.0 | .28 | .54 | .07 | .42 |
| U | 387 | 387 | 387 | 323 | 387 | 387 | 387 | 387 | 387 | 387 | 387 | 387 | 226 | 387 | 1.0 | .51 | .15 | .22 |
| Sp. cond. | 486 | 473 | 485 | 323 | 400 | 486 | 486 | 486 | 486 | 484 | 474 | 438 | 226 | 484 | 387 | 1.0 | .09 | .49 |
| pH | 486 | 473 | 485 | 323 | 400 | 486 | 486 | 486 | 486 | 484 | 474 | 438 | 226 | 484 | 387 | 486 | 1.0 | .23 |
| Temp. | 486 | 473 | 485 | 323 | 400 | 486 | 486 | 486 | 486 | 484 | 474 | 438 | 226 | 484 | 387 | 486 | 486 | 1.0 |

Table 5.--Relative standard deviations obtained from 11 water samples by constituents

| Constituents | Relative standard deviation |
|------------------|-----------------------------|
| pH | 1.4 percent |
| Na | 4.0 percent |
| Conductance | 4.4 percent |
| K | 4.9 percent |
| SiO ₂ | 5.2 percent |
| Ca | 6.2 percent |
| Mg | 6.4 percent |
| Li | 6.4 percent |
| Cl | 7.3 percent |
| SO ₄ | 7.5 percent |
| Temperature | 8.5 percent |
| Alkalinity | 9.6 percent |
| U | 9.8 percent |
| F | 10.5 percent |
| Mo | 15.0 percent |
| As | 24.8 percent |
| Zn | 27.1 percent |
| Cu | 33.4 percent |

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