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# CHEMICAL ANALYSIS OF THE WATERS OF YELLOWSTONE NATIONAL PARK, WYOMING FROM 1965 TO 1973

By

J. M. Thompson, T. S. Presser, R. B. Barnes and D. B. Bird



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75-25

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.

## INTRODUCTION

Analyses of Yellowstone Park thermal waters have been reported by many investigators extending back almost one hundred years. The first detailed analyses were reported by Gooch and Whitfield (1888). Allen and Day (1935) were second. White, Brannock, and Murata (1956) and Morey, Fournier, Hemley, and Rowe (1961) reported field analyses of dissolved silica content of hot springs. White, Hem, and Waring (1963) reported six new chemical analyses. Noguchi and Nix (1963) reported partial analyses of five geysers. Rowe, Fournier, and Morey (1973) published the analyses of 166 samples from 89 different locations and the previous analyses of the same hot springs and geysers from 1888 to their study. The analyses compiled here are from 541 samples from 405 different locations of streams, rivers, cold springs, warm springs, hot springs, pools, and geysers.

We are indebted to many colleagues at the Survey who have contributed to this report. These include Manuel Nathenson for his help in writing the computer program, E. E. Bell and H. S. Cortez for coding the analyses, R. O. Fournier, L. P. J. Muffler, A. H. Truesdell, and D. E. White for collecting and locating the water samples. We are also grateful to the U. S. National Park Service for their cooperation and assistance.

## SAMPLE COLLECTION

Water samples of springs were collected as close to the main orifice of each spring as was possible or safe. Water samples of known geysers were collected during overflow just prior to eruption or as close to the fountaining water during eruption as was possible or safe. Water samples of streams

and rivers were collected at convenient points (e.g., gage stations, bridges, etc.). In 1966 and 1967, the samples of the Firehole, Gibbon, and Gardner Rivers were checked for uniformity. Samples from both sides and the middle of the rivers were collected and analyzed. These samples were found to be the same within 5% error. No depth integrated samples were collected; all samples must be considered "grab" samples.

Samples were collected in a one liter narrow mouth polyethylene bottle fastened to the end of a jointed aluminum rod. The collecting bottle was rinsed several times prior to sampling. For untreated samples, the sample bottle was rinsed several times with the water collected. For filtered samples, the filter chamber was rinsed with collected water and the filter was pressurized to rinse the filter and sample bottles. Four sample aliquots were normally collected from thermal springs: one was filtered and then acidified (pH $\leq$2); one was filtered only; one was for silica only (a diluted sample); and one was for water isotopes.

Prior to 1972, water samples were filtered if filtering equipment could be easily transported to the collection site. The filtering equipment consisted of a 4 liter stainless steel pressure vessel, a 142 mm stainless steel disc filter holder, a bottle of compressed nitrogen, and appropriate tubing. Later a stainless steel milkfilter and small hand pump were used to filter the samples. This equipment was carried to all springs, pools, and geysers for filteration. River and stream samples were neither filtered nor acidified. The effective filter pore sizes were either 0.10 or 0.45 micrometer (μm). A separate sample was taken for silica analysis by

pipetting either 5 or 10 ml of sample into 50 ml of deionized water. In the laboratory these samples were further diluted to a total volume of 100 mls. This collection procedure is similar to that described by Rowe et al. (1973).

## FIELD ANALYSIS

Field determinations were usually made for pH and temperature. Determinations of sulfide, alkalinity, and ammonia were made as the situation permitted. Direct potentiometric determinations using specific ion electrodes for sodium (Beckman Instrument #78178) and potassium (Beckman Instrument #78137) were made early in the study. Potentiometric titrations for chloride, using standardized silver nitrate, a silver/silver chloride electrode with appropriate reference electrode, and for alkalinity, using standardized sulfuric acid with a glass electrode, and appropriate reference or a combination electrode were also made early in the study. Ammonia that was determined in the field was measured by specific ion electrode (Orion Model 95-10). Sulfide was determined by iodometric back titration with standardized thiosulfate. Silica was determined by the method of Morey et al. (1961). All field determined constituents are indicated in the table.

## LABORATORY ANALYSIS

Silica was determined by either of two methods prior to 1972: 1) reduced molybdate blue method or 2) atomic absorption spectrophotometry (AAS). Both methods are described by Brown et al. (1970). Beginning in 1972 the molybdate blue method described by Rowe et al. (1973) was initiated.

Boron was determined by one of three methods: 1) the curcumin complex method, 2) the dianthrimide method, and 3) the carmine method. The first is described by APHA (1971) and the latter two are described by Brown et al. (1970).

MAJOR CATIONS

Aluminum was normally determined either by a modification of the Morin method (Donaldson, 1966) or by direct aspiration A.A.S. techniques. After 1971 all aluminum values were determined by the method of R. B. Barnes (manuscript in preparation). Sodium, potassium, and lithium were determined by A.A.S. on either a filtered acidified sample or a filtered unacidified sample. Calcium and magnesium were normally determined by A.A.S. on a filtered acidified sample. Generally, if the sample had not been filtered and acidified, iron, manganese, and aluminum were not determined. The procedures for these methods are all found in Brown et al. (1970).

A Kjeldahl distillation was initially used to determine ammonia. The procedure is described by Brown et al. (1970). After 1971 either an ammonia electrode or direct Nesslerization was used. Direct Nesslerization can be used on a majority of Yellowstone National Park waters since the calcium content of these waters is of the order of 1 mg/l.

MAJOR ANIONS

If possible, major anions were analyzed from a filtered unacidified sample. Alkalinity was determined in the lab as described under field analysis when it was not determined in the field.

Sulfate was normally determined by either the thorin procedure (Rainwater and Thatcher, 1960) or chloroanilate procedure (Schafer, 1967). For the chloroanilate method, cations were removed prior to analysis by a strong cation exchanger to which an acetate buffer was added. Barium chloroanilate was then added, mixed, and centrifuged. The color is read on a spectrophotometer at the 330 ion wavelength (D. B. Bird, unpublished data, 1972). When using the thorin procedure, the endpoint was detected either visually or spectrophotometrically. If the concentration of sulfate exceeded 120 mg/1, the samples were diluted. In some cases if the sulfate exceeded 200 mg/1, classical gravimetric procedures were used (Rainwater and Thatcher, 1960).

Of the halides only chloride and fluoride are reported. If the chloride concentration was above 10 mg/1, either a Mohr titration (Brown et al., 1970), or a potentiometric titration using a silver electrode and a modified saturated calomel electrode was used. Chloride concentrations less than 10 mg/1 were determined spectrophotometrically by formation of ferric thiocynate complex ion, as described by ASTM (1969). Fluoride was initially determined by the Zircomium - Eriochrome Cyanide R Method which is described by Brown et al. (1970). Later fluoride was determined electrochemically by a fluoride specific ion electrode (Orion 94-09) in conjunction with either a saturated calomel or double junction reference electrode. All samples and standards were adjusted to an ionic strength of ca. 0.5 and buffered at pH 8 by adding an equal volume of an ionic buffer solution to an equal volume of sample or standard. The buffer

solution contained 0.1 M tris - (hydroxymethyl) aminomethane, 0.058 M HCl, and 1.0 M NaCl (R. B. Barnes, unpublished, 1972).

When it was to be analyzed in the laboratory, the sulfide was precipitated in the field with either zinc or cadmium acetate and determined by the method of Brown et al. (1970).

Comparisons of two springs in each of six basins are shown by Stiff diagrams in Figures 1 - 12. All units are millinormal except those for boron and silica which are in millimolar. The results of the analyses are given in Table 1. The order of the analyses is from Heart Lake Geyser Basin westward to Shoshone Geyser Basin, northward to Mammoth Hot Springs and southeastward toward Fishing Bridge. All concentrations are in milligrams per liter (mg/l) unless otherwise indicated. Any analysis with a footnoted 1 indicates this value should read "less than" indicated. All analyses footnoted with a 2 are field analyses. R. O. Fournier and A. H. Truesdell performed all field analyses except those for ammonia and sulfide which were performed by J. M. Thompson. Methods are discussed under field methods.

List of Illustrations



Tables

UNNAMED IN RUSTIC GROUP

HEART LAKE BASIN

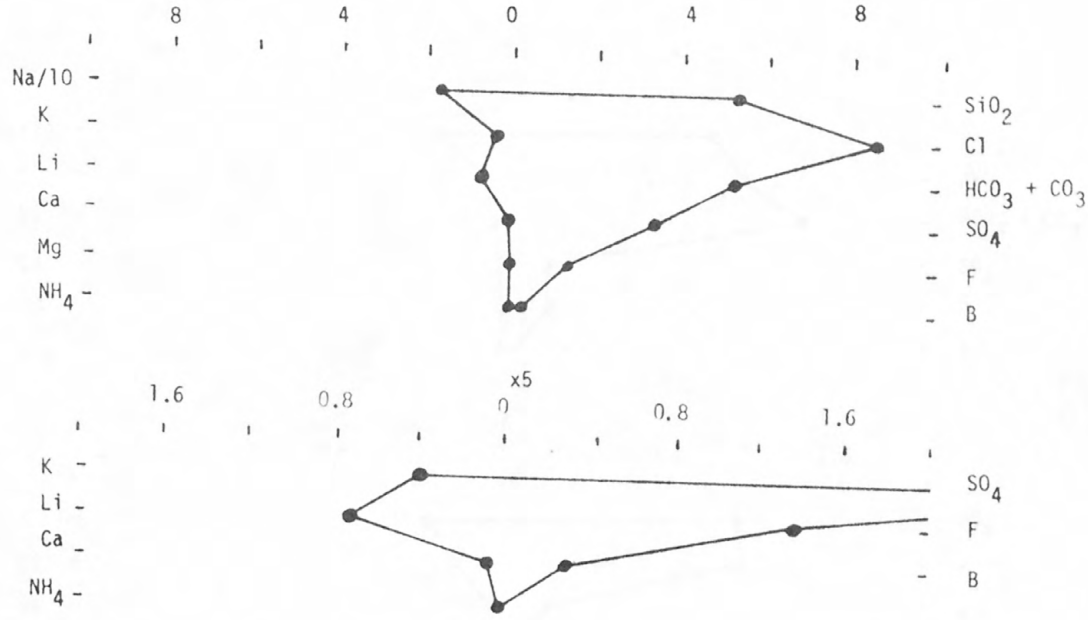


Fig. 1

BASE OF SPIKE GEYSER

HEART LAKE BASIN

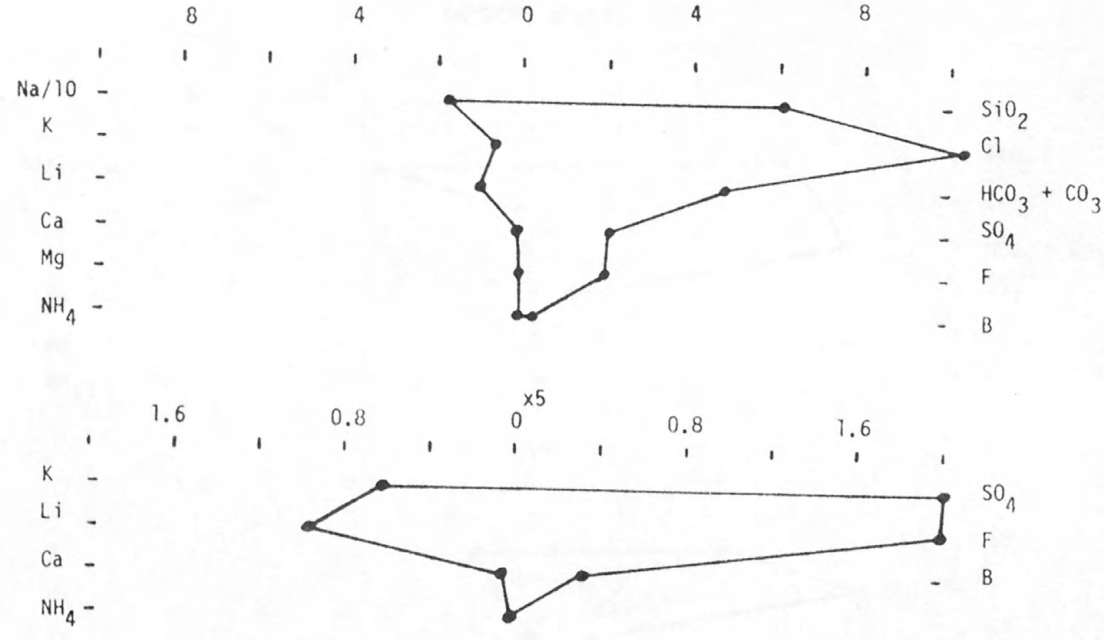


Fig. 2

TAURUS SPRING

SHOSHONE BASIN

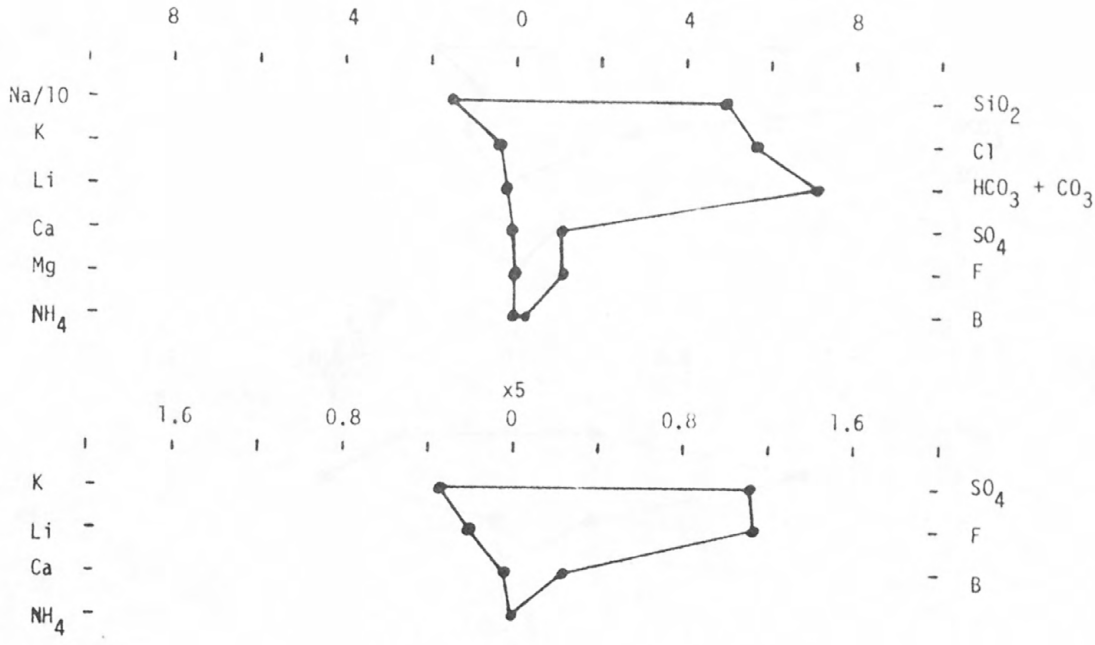


Fig. 3

UNION GEYSER

SHOSHONE BASIN

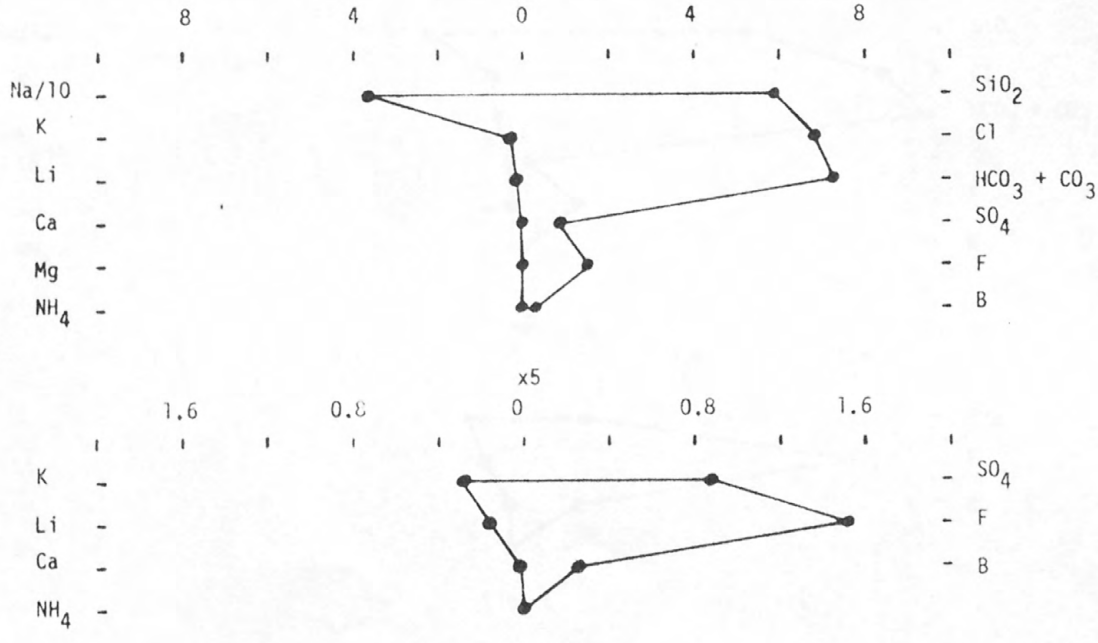


Fig. 4

GIANTESS GEYSER

UPPER BASIN

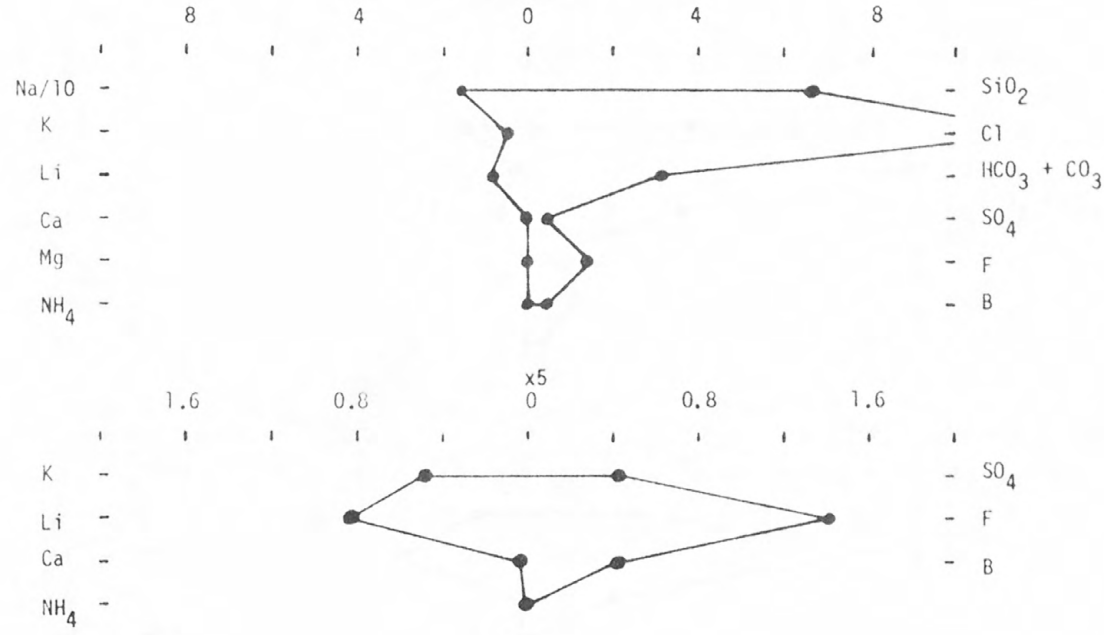


Fig. 5

SAPPHIRE GEYSER

UPPER BASIN

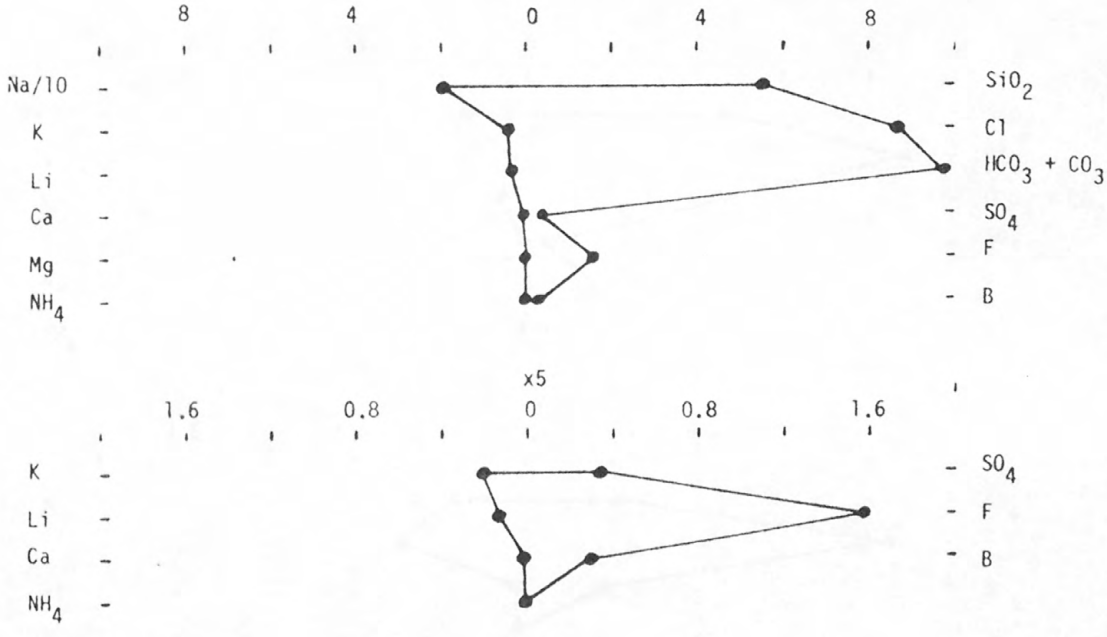


Fig. 6

OJO CALIENTE

LOWER BASIN

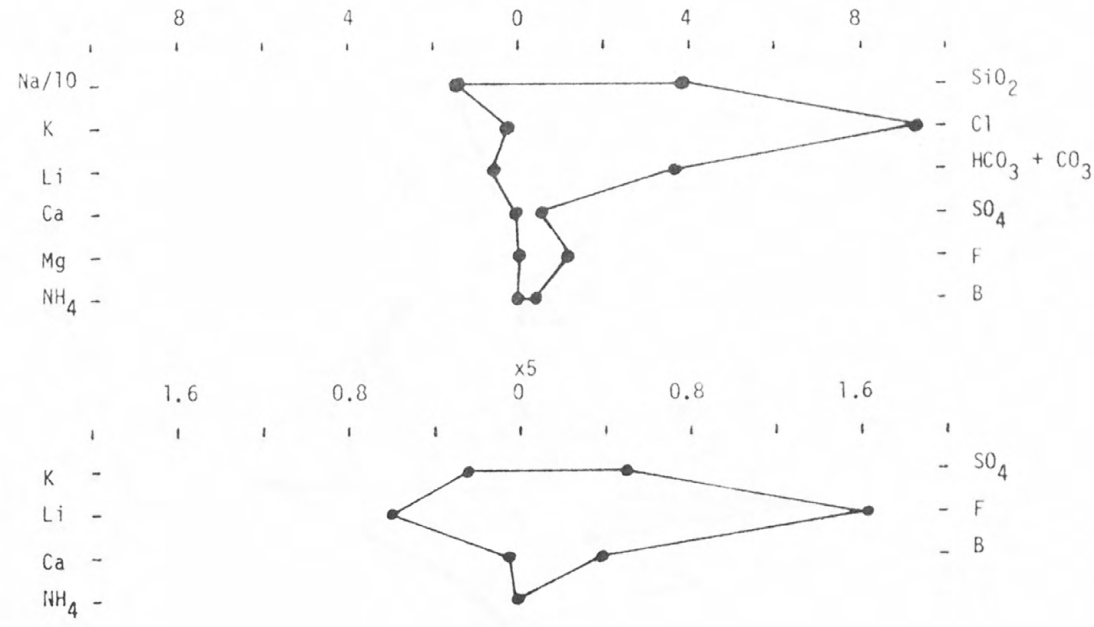


Fig. 7

SPRING BY Y-13 DRILL HOLE

LOWER BASIN

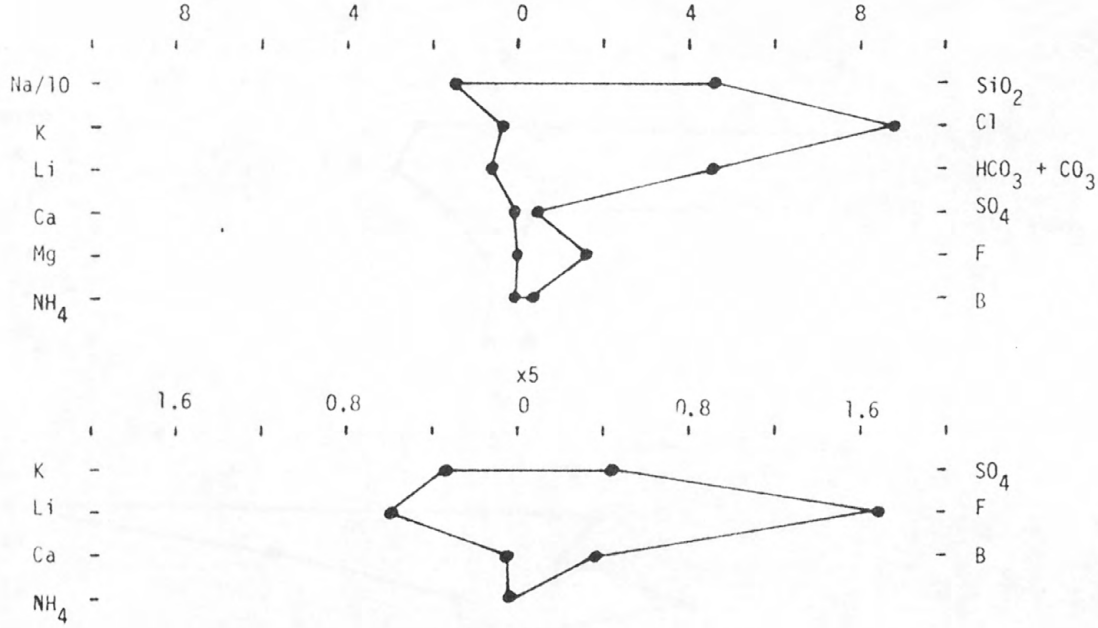


Fig. 8

PERPETUAL SPOUTER ABOVE FIRECRACKER

NORRIS BASIN

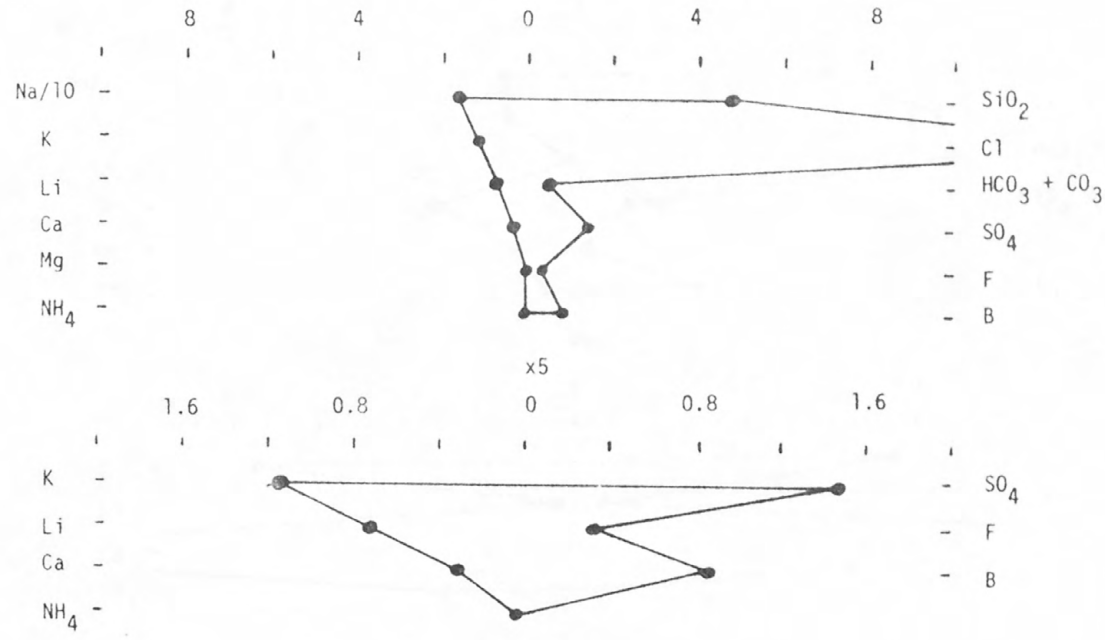


Fig. 9

BASE OF PORCELAIN TERRACE

NORRIS BASIN

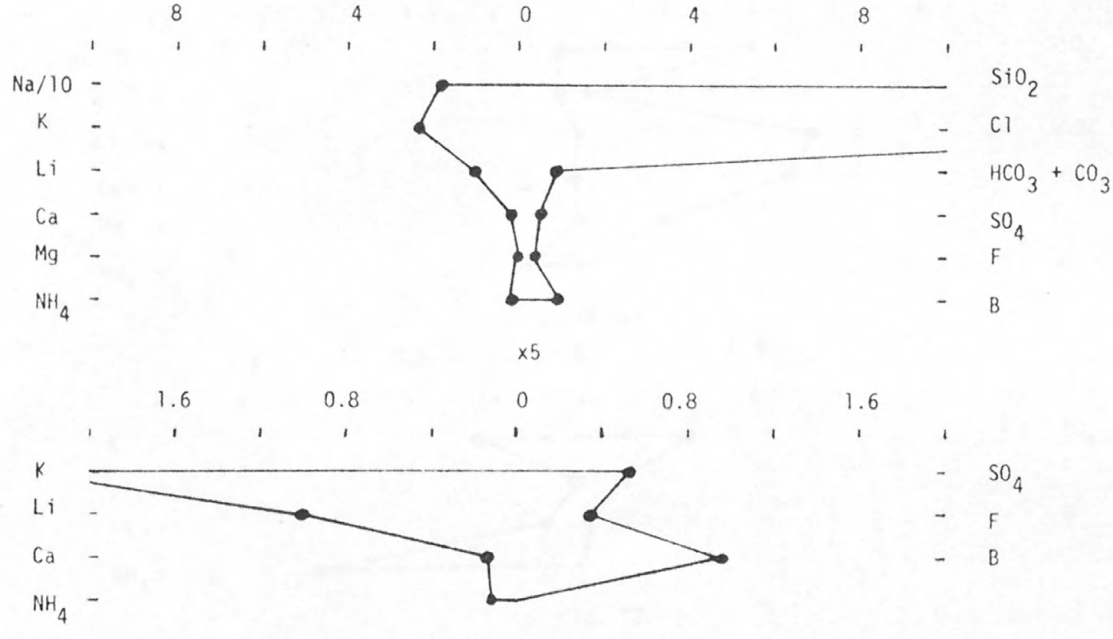


Fig. 10

RAINBOW HOT SPRINGS

EASTERN PARK

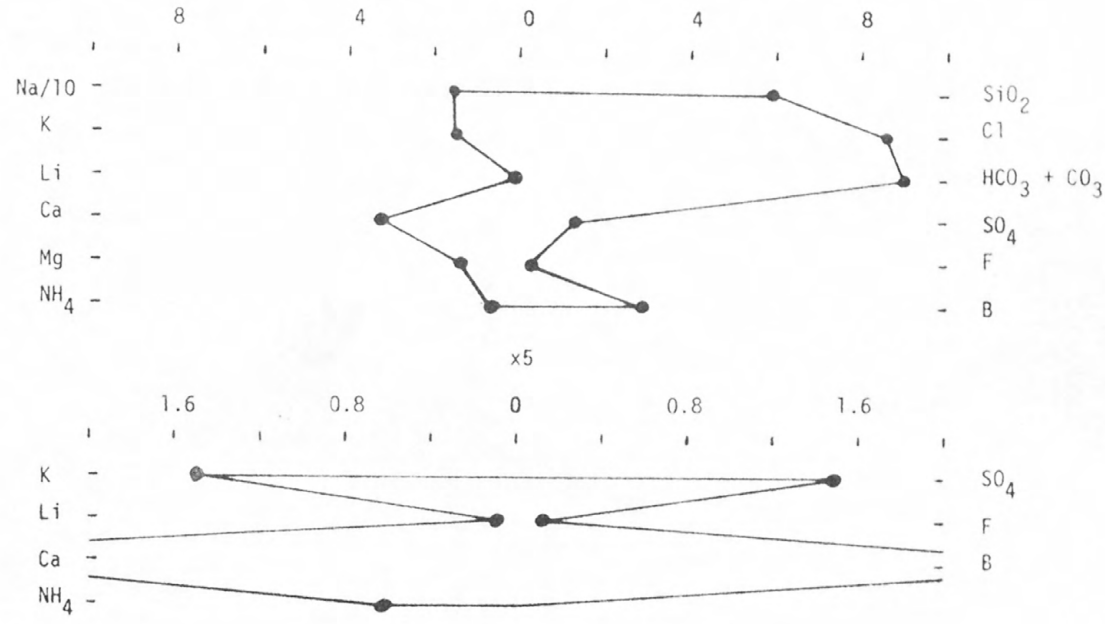


Fig. 11

JOSEPH COATS SPRING

EASTERN PARK

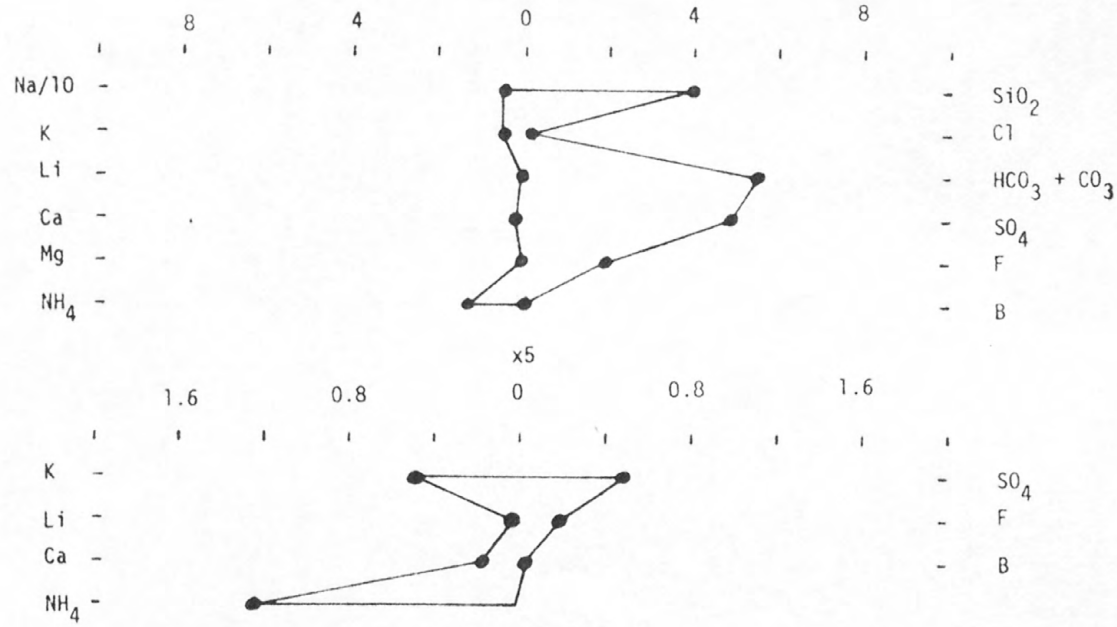


Fig. 12

Table 1.--Analysis of the waters.

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| HEART LAKE GEYSER BASIN | | | | | | | | |
| T7338 | SEP 73 | RUSTIC | | SPRING | ALMOST RECTANGULAR | 44 17.682 | 110 29.987 | 91.0 |
| T7340 | SEP 73 | MIDDLE | DOUBLE | SPRING | DOUBLE SPRING | 44 18.504 | 110 30.955 | 87.0 |
| T7341 | SEP 73 | FISSURE | GLADE | GEYSER | | 44 18.887 | 110 31.268 | 94.4 |
| T7343 | SEP 73 | FISSURE | | SPRING | SPG 3' S OF TRIPLE BULGER | 44 18.909 | 110 31.268 | 93.0 |
| T7345 | SEP 73 | LOWER | | POOL | EASTERN; 4' X 3' POOL | 44 18.217 | 110 30.304 | 94.0 |
| T7346 | SEP 73 | UPPER | DELUGE | GEYSER | | 44 19.031 | 110 31.504 | 93.0 |
| T7348 | SEP 73 | UPPER | | GEYSER | 3 SMALL VENTS EASTERN BASE OF SPIKE | 44 19.071 | 110 31.623 | 93.5 |
| T7350 | SEP 73 | | | SPRING | RED ACID | 44 19.073 | 110 31.600 | 79.0 |
| W73 1 | SEP 73 | LOWER | | SPRING | WESTERN | 44 18.148 | 110 30.510 | |
| W73 2 | SEP 73 | FISSURE | | SPRING | HOT RIVER FROM BASE OF FISSURE | 44 18.908 | 110 31.295 | |
| W73 3 | SEP 73 | | | SPRING | WITCH CRK DISC INTO HEART LAKE | 44 17.807 | 110 30.043 | |
| LEWIS LAKE HOT SPRING | | | | | | | | |
| T7351 | SEP 73 | | | SPRING | , HOT ON LEWIS LAKE | 44 18.500 | 110 39.410 | |
| SHOSHONE GEYSER BASIN | | | | | | | | |
| YM45 | | | UNION | GEYSER | | 44 21.135 | 110 47.888 | |
| YW32 | | | | POOL | POOL N SIDE FALL CRK | 44 21.104 | 110 48.191 | |
| YW33 | | | | SPRING | SPG NR PATROL CABIN | 44 21.358 | 110 47.945 | 93.6 |
| YW34 | | | BLACK SULFUR | SPRING | | 44 21.333 | 110 47.798 | 92.5 |
| YW35 | | | TAURUS | SPRING | | 44 21.178 | 110 47.864 | 95.0 |
| T7201 | SEP 72 | | BOILING SPG | SPRING | SHOSHONE SPG NUMBER 156 | 44 21.033 | 110 48.307 | 94.0 |
| T7202 | SEP 72 | | BOILING CAULDRO | SPRING | SHOSHONE SPG NUMBER 139 | 44 21.104 | 110 48.191 | 94.5 |
| T7203 | SEP 72 | | VELVET | SPRING | SHOSHONE SPG NUMBER 68 | 44 21.247 | 110 47.963 | 92.8 |
| T7204 | SEP 72 | | GOURD | SPRING | SHOSHONE SPG NUMBER 4 | 44 21.300 | 110 47.832 | 93.0 |
| T7205 | SEP 72 | | UNNAMED | SPRING | SHOSHONE SPG NUMBER 35A | 44 21.336 | 110 47.902 | 93.0 |
| T7206 | SEP 72 | | LITTLE BULGER | SPRING | SHOSHONE SPG NUMBER 13 | 44 21.314 | 110 47.811 | 87.0 |
| T7207 | SEP 72 | | SHIELD | GEYSER | SHOSHONE SPG NUMBER 3 | 44 21.298 | 110 47.831 | 92.5 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HEART LAKE GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| T7338 | 8.7 | 8.40 | 318.0 | | | | 1.2 | 0.05 | 405.0 | 15.5 | 5.00 | 0.1 | 318.0 | | 160.0 | 303.0 | 26.0 | 3.30 | | |
| T7340 | 7.7 | 8.48 | 207.0 | | | | 10.0 | 0.15 | 310.0 | 10.0 | 3.10 | 0.1 | 264.0 | | 130.0 | 233.0 | 17.0 | 2.70 | | |
| T7341 | 9.0 | 9.91 | 318.0 | | | | 0.9 | 0.01 | 400.0 | 28.0 | 4.80 | 0.2 | 60.0 | 118.0 | 170.0 | 297.0 | 27.0 | 3.40 | | |
| T7343 | 8.8 | 9.62 | 293.0 | | | | 1.2 | 0.02 | 340.0 | 26.5 | 4.10 | 0.1 | 111.0 | 70.0 | 150.0 | 268.0 | 24.0 | 3.00 | | |
| T7345 | 9.3 | 9.65 | 312.0 | | | | 1.0 | 0.02 | 405.0 | 11.5 | 4.30 | 0.2 | 152.0 | 76.0 | 160.0 | 303.0 | 27.0 | 3.50 | | |
| T7346 | 9.5 | 0.20 | 415.0 | | | | 0.9 | 0.02 | 440.0 | 39.0 | 5.60 | 0.1 | | 200.0 | 180.0 | 354.0 | 32.0 | 4.00 | | |
| T7348 | 8.9 | 9.48 | 366.0 | | | | 0.9 | 0.01 | 400.0 | 24.2 | 6.70 | 0.1 | 159.0 | 64.0 | 100.0 | 363.0 | 38.0 | 3.60 | | |
| T7350 | 3.0 | 1.97 | 200.0 | | | | 5.0 | 1.20 | 1.7 | 9.5 | 0.10 | 3.8 | | | 220.0 | 3.0 | 0.2 | 0.10 | | |
| W73 1 | | | 334.0 | | | | 0.9 | 0.03 | 380.0 | 9.4 | 4.00 | 0.2 | 149.0 | 80.0 | 150.0 | 270.0 | 21.0 | 3.10 | | |
| W73 2 | | | 180.0 | | | | 1.8 | 0.05 | 170.0 | 8.5 | 2.00 | 0.1[1] | 54.0 | 32.0 | 75.0 | 137.0 | 11.0 | 1.60 | | |
| W73 3 | | | 138.0 | | | | 5.0 | 0.80 | 120.0 | 10.0 | 1.30 | | | | 50.3 | 89.0 | 8.7 | 1.00 | | |
| LEWIS LAKE HOT SPRING | | | | | | | | | | | | | | | | | | | | |
| T7351 | | 8.00 | 330.0 | | | | 3.2 | 0.02 | 140.0 | 17.0 | 0.60 | 0.1 | 165.0 | | 51.0 | 79.0 | 0.1 | 8.20 | | |
| SHOSHONE GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| YM45 | | | | | | | 0.4 | | 348.0 | 12.0 | 1.20 | | 313.0 | 53.0 | 70.0 | 238.0 | 29.7 | 3.30 | | |
| YW32 | | | | | | | | | 307.0 | 12.7 | 1.80 | | 308.0[2] | 50.0 | | 186.0 | 21.6 | 2.20 | | |
| YW33 | | | | | | | | | 243.0 | 24.5 | 1.30 | | 264.0 | 65.0 | | 132.0 | 17.8 | 1.70 | | |
| YW34 | | | | | | | | | 272.0 | 12.7 | 1.50 | | 356.0[2] | | | 162.0 | 19.1 | 2.10 | | |
| YW35 | | | | | | | | | 340.0 | 14.7 | 1.40 | | 308.0 | 60.0 | | 235.0 | 25.6 | 2.90 | | |
| T7201 | 7.0 | 8.50 | 170.0 | 0.08 | 0.05 | | 4.1 | 0.05 | 295.0 | 11.3 | 1.60 | | 449.0 | 3.3 | 36.0 | 135.0 | 15.4 | 1.70 | | |
| T7202 | 7.2 | 9.20 | 260.0 | 0.29 | 0.05 | | 0.5 | 0.05 | 325.0 | 10.7 | 1.70 | | 416.0 | | 43.0 | 175.0 | 18.2 | 2.10 | | |
| T7203 | 7.3 | 9.30 | 250.0 | 0.23 | 0.05 | | 0.9 | 0.05 | 330.0 | 13.7 | 1.50 | | 438.0 | | 45.0 | 183.0 | 18.8 | 2.50 | | |
| T7204 | 7.5 | 8.70 | 256.0 | 0.17 | 0.05 | | 1.5 | 0.05 | 315.0 | 12.4 | 1.60 | | 435.0 | | 46.0 | 155.0 | 16.7 | 2.30 | | |
| T7205 | 7.7 | 9.20 | 260.0 | 0.17 | 0.05 | | 1.1 | 0.05 | 315.0 | 13.3 | 1.50 | | 425.0 | | 50.0 | 165.0 | 17.7 | 2.30 | | |
| T7206 | 8.0 | 9.40 | 256.0 | 0.23 | 0.05 | | 2.0 | 0.05 | 300.0 | 11.7 | 1.60 | | 425.0 | | 55.0 | 157.0 | 17.0 | 2.00 | | |
| T7207 | 7.5 | 9.10 | 250.0 | 0.26 | 0.05 | | 2.5 | 0.05 | 300.0 | 12.4 | 1.60 | | 437.0 | | 46.0 | 156.0 | 17.4 | 2.00 | | |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| SHOSHONE | GEYSER | BASIN | | | | | | |
| T7208 | SEP 72 | | LITTLE GIANT | GEYSER | SHOSHONE SPG NUMBER 28 | 44 21.385 | 110 47.743 | 92.5 |
| T7209 | SEP 72 | | UNNAMED | SPRING | SHOSHONE SPG NUMBER 32A | 44 21.392 | 110 47.751 | 94.0 |
| T7210 | SEP 72 | | BLACK SULFUR | SPRING | SHOSHONE SPG NUMBER 17 | 44 21.329 | 110 47.799 | 93.5 |
| T7211 | SEP 72 | | BEAD | GEYSER | SHOSHONE SPG NUMBER 59 | 44 21.254 | 110 47.980 | 90.5 |
| T7212 | SEP 72 | | UNNAMED | SPRING | SHOSHONE SPG NUMBER 12B | 44 21.314 | 11 0.000 | 89.0 |
| T7213 | SEP 72 | | UNNAMED | SPRING | SHOSHONE SPG NUMBER 162 | 44 20.918 | 110 47.758 | 86.0 |
| T7214 | SEP 72 | | WASHTUB | SPRING | SHOSHONE SPG NUMBER 121 | 44 20.094 | 110 47.926 | 81.0 |
| T7215 | SEP 72 | | UNNAMED | SPRING | SHOSHONE SPG NUMBER 86 | 44 21.187 | 110 47.907 | 94.5 |
| T7216 | SEP 72 | | TAURUS | SPRING | SHOSHONE SPG NUMBER 82 | 44 21.178 | 110 47.864 | 94.5 |
| T7217 | SEP 72 | | PEARL | SPRING | SHOSHONE SPG NUMBER 48 | 44 21.250 | 110 47.929 | 90.0 |
| T7218 | SEP 72 | | UNNAMED | SPRING | SHOSHONE SPG NUMBER 67 | 44 21.262 | 110 48.000 | 93.0 |
| T7219 | SEP 72 | | CORAL | SPRING | SHOSHONE SPG NUMBER 76 | 44 21.188 | 110 48.046 | 80.5 |
| T7220 | SEP 72 | | BRONZE | GEYSER | SHOSHONE SPG NUMBER 78 | 44 21.233 | 110 47.902 | 93.0 |
| T7221 | SEP 72 | | GLEN | SPRING | SHOSHONE SPG NUMBER 65 | 44 21.272 | 110 48.032 | 94.5 |
| T7222 | SEP 72 | | UNNAMED | SPRING | SHOSHONE SPG NUMBER 166 | 44 21.300 | 110 47.562 | 93.0 |
| T7223 | SEP 72 | | UNNAMED | SPRING | SHOSHONE SPG NUMBER 7 | 44 21.314 | 110 47.845 | 93.5 |
| T7305 | AUG 73 | | | SPRING | SHOSHONE SPG NUMBER 198 | 44 21.448 | 110 47.547 | 83.0 |
| T7313 | AUG 73 | | UNION | GEYSER | SHOSHONE SPG NUMBER | 44 21.135 | 110 47.888 | 91.5 |
| T7314 | AUG 73 | | | SPRING | SHOSHONE SPG NUMBER 91A | 44 21.136 | 110 47.854 | 81.0 |
| T7316 | AUG 73 | | | SPRING | SHOSHONE SPG NUMBER 182B | 44 21.084 | 110 47.908 | 0.0 |
| T7319 | AUG 73 | | | SPRING | SHOSHONE SPG NUMBER 192 | 44 21.378 | 110 47.732 | 89.5 |
| T7327 | AUG 73 | | | SPRING | SHOSHONE SPG NUMBER 110 | 44 21.407 | 110 47.937 | 83.5 |
| T7328 | AUG 73 | | | SPRING | SHOSHONE SPG NUMBER 34 | 44 21.357 | 110 47.945 | 98.0 |
| T7329 | AUG 73 | | | SPRING | SHOSHONE SPG NUMBER 133 | 44 21.138 | 110 48.140 | 80.0 |
| LONE STAR | GEYSER | BASIN | | | | | | |
| YF355 | 18 JUL 67 | | UNNAMED | SPRING | N SIDE RIVER 60 YD E OF BRIG | 44 24.980 | 110 48.716 | 68.0 |
| YF356 | 18 JUL 67 | | UNNAMED | SPRING | FAR W OF TRAIL PAST BRDG | 44 24.987 | 110 48.817 | 78.0 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHOSHONE GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| T7208 | 8.3 | 9.50 | 292.0 | 0.20 | 0.05 | | 0.9 | 0.05 | 300.0 | 18.4 | 1.40 | | 394.0 | | 46.0 | 168.0 | 17.7 | 2.20 | | |
| T7209 | 7.5 | 9.20 | 308.0 | 0.29 | 0.05 | | 1.1 | 0.05 | 350.0 | 15.6 | 1.60 | | 326.0 | | 50.0 | 278.0 | 20.6 | 3.60 | | |
| T7210 | 6.8 | 8.80 | 244.0 | 0.47 | 0.05 | | 1.2 | 0.05 | 275.0 | 11.6 | 1.40 | | 345.0 | | 65.0 | 133.0 | 15.2 | 2.00 | | |
| T7211 | 7.5 | 8.90 | 278.0 | 0.20 | 0.05 | | 1.1 | | 330.0 | 15.5 | 1.60 | | 437.0 | | 47.0 | 174.0 | 19.2 | 2.30 | | |
| T7212 | | 8.80 | 242.0 | 0.06 | 0.05 | | 1.6 | 0.05 | 280.0 | 11.7 | 1.10 | | 322.0 | | 40.0 | 179.0 | 18.8 | 2.20 | | |
| T7213 | 7.0 | 8.90 | 344.0 | 0.10 | 0.05 | | 0.9 | 0.05 | 350.0 | 12.5 | 0.65 | | 393.0 | | 43.0 | 215.0 | 27.1 | 2.70 | | |
| T7214 | 7.3 | 9.00 | 328.0 | 0.14 | 0.05 | | 0.4 | 0.05 | 365.0 | 16.0 | 1.00 | | 406.0 | | 48.0 | 238.0 | 25.5 | 2.80 | | |
| T7215 | 7.5 | 9.20 | 316.0 | 0.32 | 0.05 | | 0.7 | 0.05 | 375.0 | 10.3 | 1.20 | | 419.0 | | 52.0 | 238.0 | 24.8 | 2.90 | | |
| T7216 | 8.0 | 9.10 | 296.0 | 0.26 | 0.05 | | 0.6 | 0.05 | 340.0 | 13.3 | 1.40 | | 434.0 | | 53.0 | 200.0 | 21.6 | 2.60 | | |
| T7217 | 7.0 | 8.70 | 266.0 | 0.15 | 0.05 | | 1.1 | 0.05 | 315.0 | 12.2 | 1.50 | | 427.0 | | 49.0 | 178.0 | 19.2 | 2.20 | | |
| T7218 | 7.3 | 8.80 | 266.0 | 0.35 | 0.05 | | 1.0 | 0.05 | 315.0 | 14.8 | 1.50 | | 432.0 | | 46.0 | 175.0 | 19.2 | 2.20 | | |
| T7219 | 7.5 | 9.20 | 286.0 | 0.29 | 0.05 | | 1.3 | 0.05 | 325.0 | 11.3 | 1.50 | | 437.0 | | 48.0 | 193.0 | 20.9 | 2.00 | | |
| T7220 | 7.5 | 8.80 | 246.0 | 0.41 | 0.05 | | 1.1 | 0.05 | 315.0 | 12.4 | 1.50 | | 424.0 | | 50.0 | 167.0 | 18.6 | 2.30 | | |
| T7221 | 7.5 | 8.90 | 268.0 | 0.29 | 0.05 | | 1.1 | 0.05 | 315.0 | 15.6 | 1.50 | | 433.0 | | 49.0 | 170.0 | 19.0 | 2.30 | | |
| T7222 | 4.0 | 2.40 | 404.0 | 3.50 | 4.50 | | 4.3 | 0.49 | 60.0 | 32.0 | 0.16 | | | | 436.0 | 60.0 | 2.7 | 0.90 | | |
| T7223 | 7.5 | 9.10 | 256.0 | 0.15 | | | 1.4 | 0.05 | 295.0 | 11.7 | 1.50 | | 410.0 | | 57.0 | 153.0 | 17.2 | 2.00 | | |
| T7305 | 7.2 | 7.80 | 286.0 | | | | 0.7 | 0.14 | 170.0 | 15.0 | 0.30 | 0.6 | 213.0 | | 61.0 | 92.0 | 8.6 | 1.10 | | 835 |
| T7313 | 8.2 | 8.90 | 352.0 | | | | 0.3 | 0.04 | 380.0 | 11.0 | 1.10 | 0.1 | 445.0 | | 42.0 | 242.0 | 29.0 | 2.80 | | 1650 |
| T7314 | 8.1 | 8.90 | 349.0 | | | | 0.3 | 0.01[1] | 380.0 | 10.0 | 1.10 | 0.1 | 445.0 | | 46.0 | 243.0 | 28.0 | 2.80 | | 1670 |
| T7316 | 6.8 | 7.70 | 262.0 | | | | 0.6 | 0.03 | 260.0 | 19.0 | 0.50 | 0.4 | 267.0 | | 54.0 | 174.0 | 20.0 | 1.90 | | 1 |
| T7319 | 7.4 | 8.10 | 350.0 | | | | 0.3 | 0.01[1] | 350.0 | 13.0 | 1.50 | 0.1 | 230.0 | | 70.0 | 323.0 | 21.5 | 3.70 | | 1610 |
| T7327 | 8.6 | 9.40 | 299.0 | | | | 0.5 | 0.01[1] | 300.0 | 20.0 | 2.20 | 0.1 | 435.0 | | 46.0 | 158.0 | 17.6 | 1.40 | | 1420 |
| T7328 | 8.4 | 9.40 | 300.0 | | | | 0.6 | 0.01[1] | 250.0 | 25.0 | 1.30 | 0.1 | 428.0 | | 34.0 | 123.0 | 15.6 | 2.00 | | 1170 |
| T7329 | 8.3 | 9.00 | 310.0 | | | | 0.5 | 0.01[1] | 310.0 | 12.0 | 1.60 | 0.1 | 438.0 | | 43.0 | 183.0 | 20.0 | 0.70 | | 1180 |
| LONE STAR GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| YF355 | | | | | | | 8.6 | 0.02 | 307.0 | 10.1 | 1.70 | | 250.0 | | 27.2 | 447.0 | 19.6 | 5.00 | | |
| YF356 | | | | | | | 2.1 | 0.01 | 281.0 | 12.9 | 1.70 | | | 78.0 | 22.0 | 444.0 | 15.6 | 4.50 | | |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| LONE STAR GEYSER BASIN | | | | | | | | |
| YF357 | 18 JUL 67 | | UNNAMED | SPRING | NR TRAIL PAST BRDG | 44 24.957 | 110 48.798 | 72.0 |
| YF391 | 1 AUG 67 | | LONE STAR POOL | POOL | BY BRDG NR DRILL HOLE | 44 24.980 | 110 48.716 | 68.0 |
| YM 78 | | | UNNAMED | SPRING | W OF LONE STAR RP | 44 26.023 | 110 48.404 | 93.5 |
| YM 80 | | | UNNAMED | SPRING | W OF LONE STAR RP | 44 26.000 | 110 48.628 | 94.5 |
| UPPER GEYSER BASIN | | | | | | | | |
| YF175 | 22 MAY 66 | | BONITA | SPRING | | 44 28.216 | 110 50.585 | 91.0 |
| YF339 | 22 OCT 66 | | BONITA | SPRING | | 44 28.216 | 110 50.585 | |
| RF214 | 30 MAY 66 | | CAULIFLOWER | SPRING | | 44 29.105 | 110 50.975 | 78.0 |
| RF332 | 19 SEP 66 | | CHROMATIC | POOL | | 44 28.115 | 110 50.304 | |
| RF283 | 18 JUN 66 | | EAR | SPRING | | 44 27.870 | 110 49.767 | 95.0 |
| YF338 | 22 OCT 66 | | EAR | SPRING | | 44 27.870 | 110 49.767 | |
| YF533 | 8 SEP 72 | | EAR | SPRING | | 44 27.870 | 110 49.767 | 95.0 |
| RF284 | 18 JUN 66 | | FROG | SPRING | | 44 27.881 | 110 50.079 | 72.0 |
| YF462 | 28 MAY 70 | | GIANTESS | GEYSER | | 44 27.811 | 110 49.687 | 95.0 |
| YF534 | 8 SEP 72 | | GIANTESS | GEYSER | | 44 27.811 | 110 49.687 | 95.0 |
| RF333 | 19 SEP 66 | | INKWELL | SPRING | | 44 28.141 | 110 50.385 | |
| YF487 | 28 MAY 70 | | INTERCHANGE | SPRING | | 44 27.672 | 110 50.645 | 7.7 |
| YF500 | 5 JUN 71 | | INTERCHANGE | SPRING | | 44 27.672 | 110 50.645 | |
| YF535 | 8 SEP 72 | | INTERCHANGE | SPRING | | 44 27.672 | 110 50.645 | |
| RF285 | 18 JUN 66 | | LIBERTY POOL | POOL | | 44 27.900 | 110 50.074 | 88.0 |
| RF213 | 30 MAY 66 | | MIPROR | SPRING | | 44 28.988 | 110 50.968 | 77.0 |
| RF201 | 30 MAY 66 | | MORNING GLORY | SPRING | | 44 28.506 | 110 50.558 | 74.0 |
| YF334 | 18 SEP 66 | | OBLONG | GEYSER | | 44 28.163 | 110 50.361 | |
| YF316 | 18 SEP 66 | | PINE | SPRING | | 44 27.797 | 110 50.875 | |
| YF532 | 8 SEP 72 | | PUNCH BOWL | SPRING | | 44 28.167 | 110 50.866 | 95.0 |
| YF335 | 18 SEP 66 | | ROUND | SPRING | | 44 28.124 | 110 50.304 | |
| YF536 | 8 SEP 72 | | SAPPHIRE | GEYSER | | 44 29.104 | 110 51.268 | 95.0 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LONE STAR GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| YF357 | | | | | | | 1.7 | 0.01 | 268.0 | 10.4 | 1.40 | | 98.0 | | 24.0 | 411.0 | 17.5 | 4.50 | | |
| YF391 | | 8.19 | 245.0 | 0.11 | 0.01 | 0.50 | 8.7 | 0.02 | 329.0 | 9.1 | 1.70 | | 115.0 | | 22.0 | 417.0 | 21.0 | 4.40 | | 1660 |
| YM 78 | | | | | | | | | 342.0 | | | | | | | 430.0 | | | | |
| YM 80 | | | | | | | 3.6 | 0.03 | 322.0 | 9.5 | 3.30 | | 15.0[2] | | 35.0 | 458.0 | 18.5 | 4.20 | | |
| UPPER GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| YF175 | | 8.79 | | | | | | | 436.0 | 16.0 | | | 440.0 | 56.5 | | 315.0 | 15.0 | | | |
| YF339 | | | | 0.53 | | | 0.2 | 0.02 | 456.0 | 13.4 | 4.49 | 0.2 | 634.0 | | 26.0 | 307.0 | | 3.20 | | |
| RF214 | 7.4 | | | | | | | | 425.0 | 21.0 | | | 535.0 | | | 277.0 | | | | 1800 |
| RF332 | | 9.29 | | | | | | | 385.0 | 17.3 | 4.99 | | 127.0[2] | 105.0[2] | | 373.0[2] | | | | |
| RF283 | | | | | | | | | 354.0 | | | | | | | 446.0 | | | | 1600 |
| YF338 | | | | 0.35 | | | 0.5 | 0.03 | 341.0 | 12.8 | 5.42 | 0.3 | 167.0 | | 26.5 | 418.0 | | 1.40 | | |
| YF533 | 9.0 | 9.22 | 362.0 | | 0.05 | | 0.6 | 0.01 | 335.0 | 16.5 | 5.20 | 0.4[2] | 174.0 | | 21.5 | 417.0 | 26.0 | 4.30 | 4.1[2] | |
| RF284 | | | | | | | | | 373.0 | | | | 307.0 | 26.4 | | 347.0 | | | | 1550 |
| YF462 | | 9.07 | 411.0 | 0.50 | | | 0.5 | 0.01 | 360.0 | 20.7 | 5.48 | | 106.0 | 41.0 | 25.0 | 425.0 | 27.5 | 4.49 | | |
| YF534 | 8.9 | 9.23 | 401.0 | | | | 0.5 | 0.01 | 365.0 | 19.0 | 5.70 | | 191.0 | | 20.5 | 439.0 | 27.0 | 4.60 | 4.7 | |
| RF333 | | 8.65 | | | | | | | 357.0 | 31.2 | 3.44 | | 400.0[2] | 34.0[2] | | 269.0[2] | | | | |
| YF487 | | 8.65 | 292.0 | | | | 0.7 | 0.03 | 282.0 | 19.9 | 2.90 | | 266.0 | 18.8 | 19.0 | 234.0 | 21.6 | 2.57 | | |
| YF500 | | 8.66 | 292.0 | | | | 0.7 | 0.02 | 272.0 | 19.1 | | | 274.0 | 17.3 | 21.2 | 224.0 | 21.0 | | | |
| YF535 | | 8.65 | 270.0 | | | | 0.5 | 0.01 | 300.0 | 19.5 | 3.20 | 0.1[1] | 273.0 | 22.0 | 22.0 | 226.0 | 18.5 | 2.30 | | |
| RF285 | | | | | | | | | 251.0 | 17.4 | 4.30 | | 79.0 | 118.0 | | 336.0 | | | | 1600 |
| RF213 | 7.8 | | | | | | | | 408.0 | 17.5 | | | | | | 286.0 | | | | 1800 |
| RF201 | | | | | | | | | 388.0 | 20.0 | 2.08 | | 511.0 | | | 287.0 | | | | 1700 |
| YF334 | | 8.55 | | | | | | | 392.0 | 18.7 | 4.36 | | 386.0[2] | 24.0[2] | | 316.0[2] | | | | |
| YF316 | | 9.38 | | | | | | | 453.0 | 15.7 | 4.39 | | 232.0[2] | 159.0[2] | | 336.0[2] | | | | |
| YF532 | 9.1 | 8.25 | 343.0 | | 0.05 | | 0.4 | 0.01 | 425.0 | 17.7 | 4.00 | 0.1[2] | 610.0 | | 15.7 | 295.0 | 29.0 | 2.90 | 2.3[2] | |
| YF335 | | 9.21 | | | | | | | 475.0 | 21.9 | 4.64 | | 320.0[2] | 142.0[2] | | 310.0[2] | | | | |
| YF536 | 8.5 | 9.00 | 334.0 | | | | 0.3 | 0.01 | 450.0 | 15.8 | 2.30 | 0.2[2] | 595.0 | | 16.5 | 308.0 | 30.0 | 3.20 | 2.6[2] | |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| UPPER GEYSER BASIN | | | | | | | | |
| RF202 | 30 MAY 66 | | SEISMIC | GEYSER | | 44 28.812 | 110 51.007 | 92.0 |
| YF200 | 30 MAY 66 | | SPITEFUL | GEYSER | | 44 28.473 | 110 50.511 | |
| YF531 | 8 SEP 72 | | SPOUTER | GEYSER | | 44 27.762 | 110 51.147 | 95.0 |
| RF265 | 13 JUN 66 | | THREE SISTERS | SPRING | | 44 27.617 | 110 50.158 | 86.0 |
| RF215 | 30 MAY 66 | | TORTOISE SHELL | SPRING | | 44 27.825 | 110 50.143 | 92.5 |
| YF549 | 10 SEP 72 | | TORTOISE SHELL | SPRING | | 44 27.825 | 110 50.143 | 95.0 |
| RF331 | 19 SEP 66 | | WITCHESCAULDRON | SPRING | | 44 27.977 | 110 50.317 | |
| YM268 | 10 OCT 66 | | RED MUD | SPRING | NR MORNING GLORY | 44 28.471 | 110 50.653 | 51.0 |
| RF262 | 13 MAY 66 | | UNNAMED | SPRING | S OF U.S. DRILL HOLE | 44 27.521 | 110 50.072 | 95.0 |
| YF474 | 23 MAY 70 | | UNNAMED | SPRING | SPG W OF OLD FAITHFUL | 44 27.635 | 110 49.663 | 90.0 |
| RF203 | 30 MAY 66 | | UNNAMED | SPRING | SPG 150' N35W OF SEISMIC | 44 28.787 | 110 50.979 | 67.5 |
| YF205 | 30 MAY 66 | | UNNAMED | SPRING | SPG WITH SIDE SPOUTER NR RIVER | 44 28.848 | 110 51.016 | 93.0 |
| RF211 | 30 MAY 66 | | UNNAMED | POOL | POOL 50YD FROM RD | 44 28.933 | 110 51.006 | 78.5 |
| YF212 | 30 MAY 66 | | UNNAMED | GEYSER | GEYS N49W TO SAPPHIRE | 44 28.945 | 110 51.001 | 93.0 |
| YF263 | 13 JUN 66 | MYRIAD | UNNAMED | GEYSER | W EDGE OF HOT AREA NR FENNER DH | 44 27.530 | 110 50.087 | 92.0 |
| YF264 | 13 JUN 66 | MYRIAD | UNNAMED | SPRING | N60W TO FENNER DH | 44 27.519 | 110 50.056 | 76.0 |
| YF266 | 13 JUN 66 | | UNNAMED | SPRING | 40YD SW OF 3 SISTERS | 44 27.599 | 110 50.199 | 88.0 |
| YF287 | 20 JUN 66 | | UNNAMED | SPRING | ABV MYSTIC FALLS | 44 29.042 | 110 52.349 | 92.0 |
| YF315 | 18 SEP 66 | | UNNAMED | SPRING | BIG SPG IN BLK SAND MEADOW | 44 27.615 | 110 50.714 | 72.0 |
| YF501 | 5 JUN 71 | | UNNAMED | SPRING | BIG SPG IN BLK SAND MEADOW | 44 27.615 | 110 50.714 | 76.1 |
| YF343 | 15 JUL 67 | | UNNAMED | SPRING | SPG AT STRM BY SEWAGE PLANT | 44 27.247 | 110 50.659 | |
| YF344 | 15 JUL 67 | | UNNAMED | SPRING | 1ST SPG S OF MALLARD CR | 44 30.244 | 110 49.934 | 58.0 |
| YF345 | 15 JUL 67 | | UNNAMED | SPRING | S OF 344 W OF RD | 44 29.929 | 110 50.237 | 42.0 |
| YF346 | 15 JUL 67 | | UNNAMED | SPRING | S OF 345 E OF RD | 44 29.638 | 110 50.408 | 59.0 |
| YF347 | 15 JUL 67 | | UNNAMED | SPRING | S OF 346 N OF RD | 44 29.597 | 110 50.460 | 58.0 |
| YF348 | 15 JUL 67 | BLK SAN | UNNAMED | POOL | BLK SAND TERRACE LINE OF POOLS | 44 27.447 | 110 50.583 | 59.0 |
| YF349 | 15 JUL 67 | | UNNAMED | SPRING | SIDE OF HILL ABOVE CAMPGROUND | 44 26.875 | 110 49.356 | 34.5 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UPPER | GEYSER | BASIN | | | | | | | | | | | | | | | | | | |
| RF202 | | | | | | | | | 371.0 | 16.0 | 3.73 | | 205.0 | 144.0 | | 279.0 | | | | 1600 |
| YF200 | | | | | | | | | 400.0 | 25.0 | | | | | | 271.0 | | | | |
| YF531 | 8.5 | 9.03 | 311.0 | | 0.05 | | 0.5 | 0.03 | 450.0 | 17.0 | 3.60 | 1.2[2] | 635.0 | | 17.4 | 312.0 | 29.0 | 3.30 | 1.2[2] | |
| RF265 | | 9.35 | | | | | | | 359.0 | 17.5 | 5.53 | | 91.0 | 76.1 | | 416.0 | | | | 1550 |
| RF215 | | | | | | | | | 409.0 | | | | 157.0 | 108.0 | | 389.0 | | | | 1880 |
| YF549 | 9.0 | 9.44 | 346.0 | | 0.05 | | 0.5 | 0.01 | 400.0 | 19.0 | 4.80 | 2.0[2] | 395.0 | | 17.9 | 378.0 | 30.0 | 4.00 | 2.5[2] | |
| RF331 | | 8.80 | | | | | | | 403.0 | 19.9 | 4.80 | | 348.0[2] | 33.0[2] | | 352.0[2] | | | | |
| YM268 | 4.5 | | | | | | | | 82.0 | 13.3 | 0.60 | | | | | 48.0 | | | | |
| RF262 | | | | | | | | | 354.0 | 23.8 | 5.40 | | | 63.7 | | 451.0 | | | | 1540 |
| YF474 | 8.9 | 9.12 | 333.0 | | | | 0.8 | 0.01 | 298.0 | 16.7 | 4.83 | | 60.1 | 43.6 | 18.2 | 352.0 | 25.2 | | | |
| RF203 | 8.4 | | | | | | | | 337.0 | 12.0 | | | | | | 257.0 | | | | 1500 |
| YF205 | 8.4 | | | | | | 0.5 | | 390.0 | 19.0 | 3.70 | | 252.0[2] | 103.0[2] | 23.0 | 277.0 | 29.5 | 3.10 | | 1730 |
| RF211 | 7.9 | | | | | | | | 389.0 | 20.0 | | | 436.0 | | | 279.0 | | | | 1730 |
| YF212 | 7.0 | | | | | | | | 256.0 | 15.0 | 2.40 | | 342.0 | | | 202.0 | | | | 1300 |
| YF263 | | | | | | | | | 338.0 | 14.9 | 4.86 | | 85.0 | 61.3 | | 402.0 | | | | 1530 |
| YF264 | | | | | | | | | 365.0 | 17.3 | 5.52 | | | 110.0 | | 435.0 | | | | 1550 |
| YF266 | | | | | | | | | 422.0 | 18.5 | 5.15 | | 234.0 | | | 376.0 | | | | 1560 |
| YF287 | | | | | | | | | 129.0 | 6.9 | 0.63 | | 237.0[2] | | | 56.5 | 11.9 | 1.00 | | 500 |
| YF315 | | 8.32 | | | | | 1.0 | 0.01 | 266.0 | 24.5 | 2.90 | | 224.0[2] | 17.0[2] | 24.7 | 238.0[2] | | | | |
| YF501 | | | | | | | 0.8 | 0.03 | 247.0 | 24.9 | | | | | | 219.0 | | | | |
| YF343 | | | | | | | | | | | | | 47.6[2] | | | 7.7[2] | | | | |
| YF344 | | | | | | | 4.1 | | 58.9[2] | 4.1[2] | | | 107.0[2] | | | 13.2[2] | | | | |
| YF345 | | | | | | | | | | | | | 84.5[2] | | | 1.3[2] | | | | |
| YF346 | | | | | | | 12.9 | | 26.3[2] | 8.8[2] | | | 80.7[2] | | | 0.8[2] | | | | |
| YF347 | | | | | | | 8.8 | | 18.9[2] | 4.6[2] | | | 40.4[2] | | | 7.4[2] | | | | |
| YF348 | | | | | | | | | | | | | 144.0[2] | | | 189.0[2] | | | | |
| YF349 | | | | | | | 9.4 | | 50.3[2] | 6.5[2] | | | 102.0[2] | | | 22.4[2] | | | | |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| UPPER GEYSER BASIN | | | | | | | | |
| YF489 | 28 MAY 70 | BISQUIT | UNNAMED | SPRING | SPG 50' S20E OF Y8 DH | 44 29.076 | 110 51.056 | 79.0 |
| YF492 | 29 MAY 70 | | UNNAMED | SPRING | FROM CRACK IN MOUND S OF OLD FAITHFUL | 44 27.614 | 110 49.675 | 91.0 |
| YF502 | 5 JUN 71 | | UNNAMED | SPRING | PINE SPG AREA | 44 27.797 | 110 50.875 | |
| YF508 | 26 SEP 71 | | UNNAMED | SPRING | | 44 27.857 | 110 49.379 | 59.0 |
| YF509 | 26 SEP 71 | | UNNAMED | SPRING | | 44 27.813 | 110 49.614 | 93.5 |
| YF510 | 26 SEP 71 | | UNNAMED | SPRING | | 44 27.345 | 110 49.165 | 90.0 |
| YF511 | 26 SEP 71 | | UNNAMED | SPRING | | 44 27.302 | 110 49.066 | 65.0 |
| YM210 | | | ISLAND GEYSER | GEYSER | ON ISLAND SE OF BISQUIT BASIN | 44 29.039 | 110 51.205 | |
| J7317 | SEP 73 | | UNNAMED | SPRING | S OF FENNER UPPER BASIN DH | 44 27.521 | 110 50.070 | 94.0 |
| YT-32 | | HILLSID | | SPRING | | 44 28.399 | 110 51.821 | |
| YT9-4 | 13 SEP 69 | HILLSID | | SPRING | | 44 28.015 | 110 51.765 | 32.0 |
| YT9-6 | 16 SEP 69 | HILLSID | | SPRING | | 44 28.823 | 110 52.042 | 89.5 |
| YT9-7 | 16 SEP 69 | HILLSID | | SPRING | | 44 28.654 | 110 52.005 | 78.0 |
| YT9-8 | 16 SEP 69 | HILLSID | | SPRING | | 44 28.569 | 110 51.966 | 86.0 |
| T9-8B | 16 SEP 69 | HILLSID | | SPRING | | 44 28.532 | 110 51.967 | 67.0 |
| YT9-9 | 16 SEP 69 | HILLSID | ASTA | SPRING | | 44 28.533 | 110 51.980 | 84.5 |
| T9-10 | 16 SEP 69 | HILLSID | | SPRING | | 44 28.489 | 110 51.957 | 83.0 |
| T9-11 | 16 SEP 69 | HILLSID | | SPRING | | 44 28.450 | 110 51.967 | 83.0 |
| T9-12 | 16 SEP 69 | HILLSID | | SPRING | | 44 28.344 | 110 51.875 | 82.0 |
| T9-13 | 16 SEP 69 | HILLSID | | SPRING | | 44 28.304 | 110 51.873 | 78.0 |
| T9-14 | 16 SEP 69 | HILLSID | | SPRING | | 44 28.249 | 110 51.894 | 39.0 |
| T9-15 | 16 SEP 69 | HILLSID | | SPRING | | 44 28.198 | 110 51.887 | 41.0 |
| T9-16 | 16 SEP 69 | HILLSID | | SPRING | | 44 28.145 | 110 51.833 | |
| T9-17 | 16 SEP 69 | HILLSID | | SPRING | | 44 28.072 | 110 51.770 | 32.0 |
| T9-18 | 16 SEP 69 | HILLSID | UNNAMED | SPRING | | 44 28.735 | 110 50.558 | 67.0 |
| T9-19 | 16 SEP 69 | HILLSID | UNNAMED | SPRING | | 44 28.189 | 110 49.707 | 53.0 |
| MIDWAY GEYSER BASIN | | | | | | | | |
| YF226 | 7 JUN 66 | FLOOD | UNNAMED | GEYSER | ON E BANK ACROSS FROM GEY ON W BANK | 44 31.250 | 110 49.688 | 89.0 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UPPER GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| YF489 | | 8.92 | | 0.46 | | | 0.5 | 0.03 | 429.0 | 16.5 | 2.92 | | 471.0 | 52.7 | 19.2 | 293.0 | 31.2 | | | |
| YF492 | | 8.64 | 344.0 | 0.54 | | | 1.0 | 0.01 | 307.0 | 18.7 | 5.04 | | 123.0 | 15.0 | 19.0 | 362.0 | 25.8 | | | |
| YF502 | | 9.47 | 308.0 | | | | 0.3 | 0.01 | 452.0 | 15.4 | | | 265.0 | 157.0 | 23.5 | 319.0 | | | | |
| YF508 | | 8.30 | | 0.03 | 0.05 | 0.02 | 5.4 | 0.34 | 50.0 | 12.0 | 0.10 | 0.1 | 129.0 | | 8.3 | 381.0 | 7.4 | 0.04 | | 255 |
| YF509 | | 8.50 | | 0.91 | 0.20 | 0.01 | 0.6 | 0.15 | 320.0 | 11.0 | 5.10 | 0.1 | 169.0 | | 42.0 | 381.0 | 26.0 | 3.90 | | 1650 |
| YF510 | | 8.18 | | 0.10 | 0.05 | 0.02 | 2.2 | 0.05 | 310.0 | 28.0 | 3.40 | 0.1 | 127.0 | | 32.0 | 393.0 | 27.0 | 4.00 | | 1650 |
| YF511 | | 3.18 | | 0.73 | 0.20 | 0.01 | 1.8 | 0.11 | 220.0 | 9.0 | 2.00 | 0.1 | 0.0 | | 183.0 | 183.0 | 21.0 | 2.70 | | 1400 |
| YM210 | | | | | | | | | 431.0 | 24.8 | 2.40 | | 0.0 | 254.0 [2] | | 294.0 [2] | 35.8 | 3.90 | | |
| J7317 | 9.4 | 9.94 | 375.0 | | | | 0.8 | 0.01 | 310.0 | 23.0 | 4.00 | 0.1 [1] | 261.0 | | 24.0 | 404.0 | 27.0 | 4.40 | 0.2 [1,2] | |
| YT-32 | | 7.92 | | 0.08 | 0.00 | 0.00 | 7.0 | 0.24 | 20.4 | 5.0 | 0.11 | 0.1 | 54.6 | | 2.4 | 5.0 | 6.2 | 0.10 | | |
| YT9-4 | 7.0 | 7.42 | 80.0 | 0.15 | 0.00 | 6.36 | 0.3 | | 10.4 | 4.2 | 0.04 | 0.0 | 34.2 | | 0.2 | 4.0 | 5.6 | 0.16 | | |
| YT9-6 | 7.0 | 8.63 | 163.0 | 0.23 | 0.07 | 0.13 | 9.0 | 0.13 | 128.0 | 6.3 | 0.57 | 0.2 | 211.0 | 12.3 | 11.1 | 50.0 | 11.0 | 0.87 | | |
| YT9-7 | 6.7 | 8.64 | 245.0 | 0.15 | 0.00 | 0.10 | 9.9 | 0.15 | 133.0 | 16.4 | 0.59 | 0.1 | 226.0 | 13.1 | 14.2 | 68.0 | 10.7 | 0.93 | | |
| YT9-8 | 7.2 | 8.66 | 170.0 | 0.15 | 0.00 | 0.00 | 8.1 | 0.14 | 141.0 | 7.4 | 0.72 | 0.2 | 217.0 | 15.6 | 13.3 | 66.0 | 11.6 | 1.11 | | |
| T9-88 | 8.5 | 8.66 | 160.0 | 0.69 | 0.10 | 1.38 | 7.8 | 0.13 | 147.0 | 7.7 | 0.75 | 0.1 | 225.0 | 13.1 | 13.7 | 68.0 | 11.8 | 1.12 | | |
| YT9-9 | 6.7 | 8.67 | 168.0 | 0.12 | 0.00 | 0.00 | 7.9 | 0.16 | 149.0 | 7.5 | 0.77 | 0.1 | 217.0 | 15.6 | 13.7 | 72.0 | 11.6 | 1.14 | | |
| T9-10 | 6.9 | 8.62 | 170.0 | 0.13 | 0.00 | 0.00 | 7.9 | 0.27 | 150.0 | 7.6 | 0.83 | 0.1 | 223.0 | 13.9 | 14.2 | 72.0 | 12.0 | 1.17 | | |
| T9-11 | 7.0 | 8.63 | 173.0 | 0.45 | 0.00 | 0.00 | 8.0 | 0.28 | 151.0 | 7.6 | 0.84 | 0.1 | 230.0 | 10.3 | 14.2 | 73.0 | 12.0 | 1.20 | | |
| T9-12 | 7.3 | 8.66 | 165.0 | 0.15 | 0.00 | 0.00 | 8.0 | 0.35 | 141.0 | 7.5 | 0.80 | 0.2 | 214.0 | 14.3 | 13.0 | 70.0 | 12.1 | 1.12 | | |
| T9-13 | 7.4 | 8.58 | 160.0 | 0.10 | 0.00 | 0.00 | 8.4 | 0.38 | 136.0 | 7.7 | 0.77 | | 213.0 | 9.4 | 12.6 | 66.0 | 11.6 | 1.08 | | |
| T9-14 | 7.0 | 7.90 | 165.0 | 0.14 | 0.00 | 0.00 | 6.8 | 0.23 | 22.6 | 5.9 | 0.14 | | 58.3 | | 2.8 | 6.0 | 6.3 | 0.12 | | |
| T9-15 | 6.9 | 8.00 | 110.0 | 0.24 | 0.00 | 0.00 | 7.0 | 0.22 | 21.4 | 5.5 | 0.15 | 0.1 | 563.0 | | 1.2 | 5.0 | 6.6 | 0.12 | | |
| T9-16 | 6.0 | 7.82 | 105.0 | 0.19 | 0.00 | 0.00 | 7.1 | 0.24 | 19.2 | 5.1 | 0.15 | 0.2 | 39.6 | | 1.2 | 12.0 | 6.2 | 0.10 | | |
| T9-17 | 6.8 | 7.73 | 85.0 | 0.17 | 0.00 | 0.00 | 6.2 | 0.28 | 8.7 | 4.2 | 0.05 | 0.3 | 34.6 | | 0.9 | 0.0 | 5.5 | 0.02 | | |
| T9-18 | | 7.89 | 120.0 | 0.17 | 0.00 | 0.00 | 6.6 | 0.01 | 18.9 | 2.0 | 0.06 | 0.1 | 43.3 | | 0.5 | 0.0 | 9.8 | 0.02 | | |
| T9-19 | | 7.91 | 115.0 | 0.15 | 0.00 | 0.00 | 7.2 | 0.15 | 16.2 | 3.5 | 0.06 | 0.2 | 46.7 | | 0.0 | 1.0 | 7.8 | 0.04 | | |
| MIDWAY GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| YF226 | | 9.10 | | | | | | | | | | | 294.0 | 57.0 | | 234.0 | | | | 1400 |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| MIDWAY | GEYSER | BASIN | | | | | | |
| YF227 | 7 JUN 66 | FLOOD | FLOOD | SPRING | E BANK AT BEND IN RIVER | 44 31.174 | 110 49.541 | 89.0 |
| YF228 | 7 JUN 66 | FLOOD | SHELF | POOL | E BANK SMALL POOL 200' S OF 227 | 44 31.155 | 110 49.573 | 78.0 |
| YF229 | 7 JUN 66 | FLOOD | UNNAMED | POOL | HOT STRM, BASE OF GLACIAL MAT SW END | 44 31.138 | 110 49.633 | 76.0 |
| YF362 | 19 JUN 67 | RABBIT | UNNAMED | GEYSER | ON HILL E OF RD NR DUMP | 44 30.836 | 110 49.829 | |
| YF368 | 29 JUN 67 | RABBIT | UNNAMED | POOL | LRG POOL AT BEND | 44 32.130 | 110 48.870 | 87.0 |
| YF369 | 29 JUL 67 | RABBIT | UNNAMED | POOL | SPOUTER AT S FORK B RABBIT CR | 44 32.130 | 110 48.870 | 92.0 |
| YF370 | 29 JUL 67 | RABBIT | UNNAMED | SPRING | BLUE POOL UP SIDE A RABBIT CR | 44 32.130 | 110 48.870 | 86.0 |
| YF230 | 7 JUN 66 | RABBIT | UNNAMED | SPRING | NR RABBIT CR DH Y5 | 44 30.860 | 110 49.264 | 90.0 |
| YF392 | JUL 67 | RABBIT | UNNAMED | SPRING | NR RABBIT CR DH Y5 930 | 44 30.860 | 110 49.264 | |
| YF541 | 9 SEP 72 | RABBIT | UNNAMED | SPRING | NR RABBIT CR DH Y5 | 44 30.860 | 110 49.264 | 95.0 |
| YM319 | 29 AUG 67 | RABBIT | UNNAMED | SPRING | MARGIN OF MALLARD LAKE | 44 31.130 | 110 48.300 | 72.0 |
| YM322 | 29 AUG 67 | RABBIT | UNNAMED | SPRING | | 44 30.770 | 110 48.830 | 69.0 |
| T6701 | 67 | RABBIT | UNNAMED | POOL | CLEAR POOL WITH PINK ALGAE | 44 31.390 | 110 48.790 | 65.0 |
| T6702 | 67 | RABBIT | UNNAMED | POOL | LRG POOL 3 ORIFICES RED ALGAE | 44 31.380 | 110 48.770 | 46.0 |
| T6703 | 67 | RABBIT | UNNAMED | SPRING | SUPER HEATED | 44 31.350 | 110 48.680 | 96.0 |
| T6704 | 67 | RABBIT | UNNAMED | POOL | VERY LRG BOILING POOL | 44 31.300 | 110 48.690 | 92.5 |
| T6705 | 67 | RABBIT | UNNAMED | POOL | VERY LRG HOT POOL | 44 31.170 | 110 48.640 | 77.0 |
| T6706 | 67 | RABBIT | UNNAMED | POOL | SMALL SUPERHEATED POOL | 44 31.130 | 110 48.610 | 94.0 |
| T6709 | 67 | RABBIT | UNNAMED | POOL | VERY VIOLENT SPOUTER | 44 30.470 | 110 48.240 | 93.7 |
| T6710 | 67 | RABBIT | UNNAMED | SPRING | SPG UP VALLEY ON W SIDE DEPOSIT MNO2 | 44 30.450 | 110 48.230 | 94.5 |
| T6711 | 67 | RABBIT | UNNAMED | SPRING | ROW OF SPGS TRENDING N40W | 44 30.849 | 110 48.796 | 80.0 |
| T6712 | 67 | RABBIT | UNNAMED | SPRING | ROW OF SPG TRENDING N40W | 44 30.911 | 110 48.947 | 80.0 |
| T6713 | 67 | RABBIT | UNNAMED | SPRING | ROW OF SPG TRENDING N40W | 44 30.939 | 110 48.991 | 75.0 |
| T6714 | 67 | RABBIT | UNNAMED | SPRING | ROW OF SPG TRENDING N40W | 44 31.050 | 110 49.157 | 40.0 |
| T6715 | 67 | RABBIT | UNNAMED | SPRING | ROW OF SPG TRENDING N40W | 44 31.047 | 110 49.309 | 92.0 |
| T6716 | 67 | RABBIT | UNNAMED | SPRING | ROW OF SPG TRENDING N40W | 44 31.074 | 110 49.390 | 85.0 |
| T6717 | 67 | RABBIT | UNNAMED | SPRING | ROW OF SPG TRENDING N40W | 44 31.141 | 110 49.399 | 90.0 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MIDWAY | GEYSER | BASIN | | | | | | | | | | | | | | | | | | |
| YF227 | | 8.94 | | | | | | | | | | | 342.0 | 24.0 | | 260.0 | | | | 1430 |
| YF228 | | 9.44 | | | | | | | | | | | 235.0 | 108.0 | | 247.0 | | | | 1300 |
| YF229 | | 7.87 | | | | | | | | | | | 306.0 | | | 202.0 | | | | 1200 |
| YF362 | | | | | | | | | 409.0 | 99.4 | 4.30 | | | | | 311.0 | 26.7 | 3.40 | | |
| YF368 | | 8.99 | | | | | 0.5 | 0.01 | 350.0 | 12.2 | 5.60 | | 293.0 | 48.2 | 24.0 | 315.0 | 27.2 | 1.00 | | |
| YF369 | | 8.14 | | | | | 0.7 | | 449.0 | 19.5 | 0.10 | | 86.6 | | 33.2 | 2.0 | 5.9 | 0.06 | | |
| YF370 | | 8.76 | | | | | 1.4 | | 325.0 | 11.3 | 4.90 | | 305.0 | 25.0 | 63.0 | 290.0 | 25.2 | 0.94 | | |
| YF230 | 8.3 | | | | | | | | | | | | 419.0 | 15.0 | | 269.0 | | | | 1570 |
| YF392 | | 8.44 | 210.0 | 0.54 | 0.01 | 0.01 | 0.4 | 0.01 | 360.0 | 9.1 | 3.20 | 0.1[1] | 447.0 | 10.0 | 16.0 | 268.0 | 25.0 | 2.80 | | 1670 |
| YF541 | 8.3 | 8.35 | 225.0 | | 0.05 | | 0.5 | 0.04 | 375.0 | 9.6 | 3.30 | 0.3[2] | 460.0 | | 25.0 | 271.0 | 24.0 | 2.80 | 0.8[2] | |
| YM319 | 7.0 | | | | | | 0.5 | 0.08 | 58.2 | 12.8 | | | 42.4 | | 88.2 | 4.0 | | | | |
| YM322 | 7.5 | | | | | | | | 333.0 | 13.9 | | | | | 56.0 | 231.0 | | | | |
| T6701 | 9.0 | | | | | | 1.2 | 0.03 | 371.0 | 14.2 | | | 396.0 | | 25.0 | 332.0 | | | | 1550 |
| T6702 | | | | | | | | | | | | | | | | | | | | 1650 |
| T6703 | 8.6 | | | | | | 1.0 | 0.02 | 322.0 | 9.8 | | | 353.0 | | 10.0 | 287.0 | | | | |
| T6704 | 8.7 | | | | | | | | | | | | | | | | | | | 1560 |
| T6705 | 9.1 | | | | | | 1.0 | 0.02 | 371.0 | 13.2 | | | 395.0 | | 22.0 | 335.0 | | | | 1750 |
| T6706 | 8.9 | | | | | | | | | | | | | | | | | | | 1600 |
| T6709 | 7.7 | | | | | | 1.6 | 0.04 | 53.7 | 20.1 | | | 80.0 | | 56.4 | 2.1 | | | | 300 |
| T6710 | 8.2 | | | | | | 3.2 | 0.02 | 44.7 | 13.8 | | | 113.0 | | 3.7 | 2.1 | | | | 210 |
| T6711 | 8.5 | | | | | | 1.5 | 0.02 | 342.0 | 12.6 | | | 394.0 | | 19.0 | 287.0 | | | | |
| T6712 | 7.6 | | | | | | | | | | | | | | | | | | | |
| T6713 | 7.7 | | | | | | | | | | | | | | | | | | | |
| T6714 | 8.7 | | | | | | | | | | | | | | | | | | | |
| T6715 | 7.6 | | | | | | 0.9 | 0.02 | 332.0 | 9.3 | | | 416.0 | | 27.0 | 272.0 | | | | |
| T6716 | | | | | | | | | | | | | | | | | | | | |
| T6717 | | | | | | | | | | | | | | | | | | | | |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| MIDWAY | GEYSER | BASIN | | | | | | |
| T6718 | 67 | RABBIT | UNNAMED | SPRING | ROW OF SPG TRENDING N40W | 44 30.920 | 110 49.440 | 71.0 |
| YF381 | OCT 67 | | UNNAMED | SPRING | COLD SPG IN PICNIC GROUND | 44 30.500 | 110 49.940 | 21.0 |
| YF548 | 10 SEP 72 | | UNNAMED | SPRING | COLD SPG IN PICNIC GROUND | 44 30.500 | 110 49.940 | |
| YF550 | 10 SEP 72 | | UNNAMED | SPRING | 0.9 MI N.OF BISQUIT | 44 29.640 | 110 50.440 | 48.0 |
| YF551 | 10 SEP 72 | | UNNAMED | SPRING | 1.4 MI N.OF BISQUIT | 44 30.020 | 110 50.190 | 60.3 |
| J7306 | 23 SEP 73 | | UNNAMED | SPRING | 1.2 MI N OF BISQUIT | 44 29.930 | 110 50.360 | 51.0 |
| J7307 | 23 SEP 73 | | UNNAMED | SPRING | 0.9 MI N OF BISQUIT | 44 29.650 | 110 50.450 | 48.0 |
| LOWER | GEYSER | BASIN | | | | | | |
| YF340 | 25 SEP 66 | FIRHOLA | STEADY | GEYSER | ALSO CALLED BLACK WARRIOR LAKE | 44 32.651 | 110 47.154 | |
| YF431 | 18 MAY 68 | FIRHOLA | STEADY | GEYSER | | 44 32.651 | 110 47.154 | |
| T9-21 | SEP 69 | FIRHOLA | STEADY | GEYSER | | 44 33.651 | 110 47.154 | |
| YF539 | 9 SEP 72 | FIRHOLA | STEADY | GEYSER | | 44 33.651 | 110 47.154 | 95.0 |
| J7308 | 23 SEP 73 | FIRHOLA | STEADY | GEYSER | | 44 32.651 | 110 47.154 | 93.0 |
| RF254 | 9 JUN 66 | FIRHOLA | FIVE SISTERS | SPRING | | 44 31.939 | 110 47.779 | 86.0 |
| YF540 | 9 SEP 72 | FIRHOLA | SHELF | SPRING | | 44 32.589 | 110 47.677 | 95.0 |
| YF326 | 19 SEP 66 | FIRHOLA | ZOMAR | SPRING | | 44 32.523 | 110 47.250 | |
| J7310 | 23 SEP 73 | FIRHOLA | ZOMAR | POOL | 1/4 MI FROM STEADY 35YD S OF RD | 44 32.560 | 110 47.440 | 77.5 |
| YF249 | 9 JUN 65 | FIRHOLA | UNNAMED | SPRING | HIGHEST SPG ON LEFT FORK OF WHITE CR | 44 31.750 | 110 47.231 | 80.0 |
| YF250 | 9 JUN 66 | FIRHOLA | UNNAMED | SPRING | HOT WATERFALL ON WHITE CR | 44 31.740 | 110 47.364 | 84.5 |
| F250A | JUN 66 | FIRHOLA | UNNAMED | SPRING | HILLS OF WHITE CR | 44 31.659 | 110 47.317 | 79.0 |
| YF252 | 9 JUN 66 | FIRHOLA | UNNAMED | POOL | WITH SIO2 RIM TREE ACROSS POOL | 44 31.906 | 110 47.648 | 92.0 |
| YF253 | 9 JUN 66 | FIRHOLA | UNNAMED | GEYSER | NR 5 SISTERS | 44 31.925 | 110 47.730 | 95.0 |
| YF306 | 14 SEP 66 | FIRHOLA | UNNAMED | GEYSER | SUBTERRANEAN GEYSER NW OF NARCISSUS | 44 32.735 | 110 48.060 | 90.5 |
| YF308 | 15 SEP 66 | FIRHOLA | UNNAMED | GEYSER | N52W OF WHITE DOME | 44 32.421 | 110 48.239 | |
| YF323 | 19 SEP 66 | FIRHOLA | UNNAMED | SPRING | SMALL SPG IN FIREHOLE LAKE AREA | 44 32.496 | 110 47.446 | 80.0 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MIDWAY GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| T6718 | 7.5 | | | | | | 1.9 | 0.05 | 252.0 | 8.9 | | | 307.0 | | 20.0 | 209.0 | | | | 1220 |
| YF381 | 5.5 | 7.29 | 105.0 | | | | 2.8 | | 32.0 | 5.0 | 0.12 | | 67.0 | | 6.3 | 17.0 | | | | |
| YF548 | 7.5 | 7.93 | 80.0 | | | | 3.2 | 0.70 | 25.5 | 3.6 | 0.10 | 0.1[1] | 28.0 | | 7.0 | 10.1 | 1.5 | 0.10 | | |
| YF550 | 7.5 | 7.72 | 100.0 | | | | 7.4 | 0.20 | 8.8 | 3.4 | 0.02[1] | 0.2 | 27.0 | | 4.0 | 0.7 | 7.0 | 0.03 | | |
| YF551 | 8.2 | 8.25 | 122.0 | | | | 12.8 | 0.14 | 32.0 | 7.9 | 0.04 | 0.1[1] | 87.0 | | 7.0 | 1.0 | 1.8 | 0.02 | | |
| J7306 | 6.3 | 6.70 | 109.0 | | | | 7.8 | 0.18 | 16.0 | 4.0 | 0.01[1] | 0.1[1] | 43.0 | | 17.0 | 4.5 | 7.8 | 0.10[1] | 0.2 | [1,2] |
| J7307 | 6.4 | 6.90 | 107.0 | | | | 7.8 | 0.20 | 10.0 | 3.6 | 0.01[1] | 0.1[1] | 32.0 | | 18.0 | 0.8 | 7.8 | 0.10[1] | 0.2 | [1,2] |
| LOWER GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| YF340 | | | | 0.25 | | | 13.2 | 0.01 | 90.0 | 10.3 | 0.44 | 0.1 | 157.0 | | 20.0 | 46.0 | | 0.56 | | |
| YF431 | | | | | | | | | 94.4 | 15.3 | | | | | 22.5 | 44.0 | | | | |
| T9-21 | 8.3 | 8.44 | 190.0 | 0.15 | 0.11 | 0.15 | 12.1 | 0.04 | 90.6 | 15.0 | 0.46 | 0.1 | 155.0 | 4.5 | 29.5 | 45.0 | 10.4 | 0.52 | | |
| YF539 | 7.9 | 8.03 | 274.0 | | | | 13.0 | 0.05 | 90.0 | 14.1 | 0.44 | 0.9[2] | 174.0 | | 23.9 | 43.1 | 9.8 | 0.49 | 0.4[2] | |
| J7308 | 6.8 | 8.40 | 213.0 | | | | 15.1 | 0.05 | 85.0 | 16.0 | 0.40 | 0.1[1] | 165.0 | | 27.0 | 44.0 | 10.0 | 0.50 | 0.2 | [1,2] 522 |
| RF254 | | 8.00 | | | | | | | 134.0 | | | | | | | 257.0 | | | | 1410 |
| YF540 | 8.4 | 8.97 | 363.0 | | | | 1.0 | 0.04 | 365.0 | 18.0 | 2.00 | 2.0[2] | 270.0 | | 22.9 | 366.0 | 19.0 | 3.80 | 1.2[2] | |
| YF326 | | 7.20 | | | | | | | 98.7 | 16.8 | 0.43 | | 157.0[2] | | | 64.0[2] | | | | |
| J7310 | 7.0 | 7.70 | 197.0 | | | | 14.0 | 0.06 | 105.0 | 16.8 | 0.45 | 0.1 | 176.0 | | 25.0 | 61.6 | 10.0 | 0.70 | 0.2 | 594 |
| YF249 | 7.0 | | | | | | | | 84.0 | | | | | | | 62.0 | | | | 450 |
| YF250 | 8.0 | | | | | | | | 75.0 | | | | 122.0 | | | 51.0 | | | | 420 |
| F250A | 7.0 | | | | | | | | 59.0 | | | | | | | 37.6 | | | | 400 |
| YF252 | 7.0 | | | | | | | | 188.0 | | | | | | | 142.0 | | | | 910 |
| YF253 | 8.0 | | | | | | | | 296.0 | | | | 198.0 | 62.0 | | 253.0 | | | | 1330 |
| YF306 | 8.0 | 9.40 | | | | | | | 317.0 | 13.2 | 2.45 | | 37.0[2] | 87.0[2] | | 345.0[2] | | | | |
| YF308 | | 8.38 | | | | | | | 333.0 | 13.7 | 3.04 | | 220.0[2] | 24.0[2] | | 331.0[2] | | | | |
| YF323 | | 7.70 | | | | | | | 94.2 | 17.5 | 0.41 | | 142.0[2] | | | 68.0[2] | | | | |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| LOWER GEYSER BASIN | | | | | | | | |
| YF324 | 19 SEP 66 | FIRHOLA | UNNAMED | SPRING | LRG FLOWING SPG FIREHOLE LAKE | 44 32.459 | 110 47.595 | 82.0 |
| YF325 | 19 SEP 66 | FIRHOLA | UNNAMED | SPRING | BIGGEST SPG FIREHOLE LAKE | 44 32.510 | 110 47.508 | 85.0 |
| YF327 | 19 SEP 66 | FIRHOLA | UNNAMED | SPRING | NE BLACK WARRIOR LAKE N SIDE RD | 44 32.701 | 110 47.083 | 93.0 |
| YF329 | 19 SEP 66 | FIRHOLA | UNNAMED | SPRING | N OF BLACK WARRIOR S OF RD | 44 32.696 | 110 47.307 | 76.0 |
| J7309 | 23 SEP 73 | FIRHOLA | UNNAMED | SPRING | 50 YD W OF SURPRISE 35YD S OF RD | 44 32.570 | 110 47.690 | 73.0 |
| YM237 | | FIRHOLA | UNNAMED | SPRING | LRG SPG IN VALLEY WHITE CRK | 44 | 110 | 77.0 |
| YM244 | | FIRHOLA | UNNAMED | SPRING | SPG FURTHEST TO SE OF GROUP AT FORK | 44 31.740 | 110 47.364 | 84.0 |
| YF367 | 20 JUL 67 | FOUNTAN | CLIFF | SPRING | | 44 33.461 | 110 48.366 | 90.0 |
| T6608 | 66 | FOUNTAN | LONE | SPRING | | 44 33.517 | 110 48.117 | |
| YF366 | 20 JUL 67 | FOUNTAN | | SPRING | NR KALEIDOSCOPE | 44 33.259 | 110 48.758 | |
| T6611 | | FOUNTAN | | SPRING | JUST W OF KALEIDOSCOPE | 44 33.259 | 110 48.758 | |
| YF546 | 10 SEP 72 | FOUNTAN | | SPRING | NR CLEPSYDRA | 44 33.053 | 110 49.578 | 92.0 |
| YF544 | 9 SEP 72 | NEZPERC | UNNAMED | SPRING | SPG IN FOUNTAIN FLATS | 44 33.954 | 110 48.963 | 47.0 |
| RF243 | 8 JUN 66 | NEZPERC | SPOUTER | SPRING | E OF RHYOLITE SLIDE | 44 34.408 | 110 47.587 | 94.0 |
| RF244 | 8 JUN 66 | NEZPERC | | SPRING | VALLEY MOUTH ON SIDE OF NEZ PERCE | 44 34.318 | 110 47.681 | 87.0 |
| RF245 | 8 JUN 66 | NEZPERC | | SPRING | S65W TO TOP WESTERN PORC HILL | 44 34.412 | 110 48.428 | 76.0 |
| YF342 | 25 SEP 66 | NEZPERC | | GEYSER | NEW GEYSER | 44 34.436 | 110 47.648 | |
| YF358 | 19 JUL 67 | NEZPERC | LOST GLASSES | SPRING | MEADOW N OF FLN FLATS RD | 44 34.411 | 110 50.123 | 90.0 |
| YF359 | 19 JUL 67 | NEZPERC | | POOL | BIG POOL FLOODED BY RIVER NR FLN FLAT RD | 44 34.255 | 110 49.948 | 90.0 |
| YF364 | 19 JUL 67 | NEZPERC | | SPRING | 100 YD FROM TELE ON FLN FLATS RD | 44 34.557 | 110 49.801 | |
| F231A | 8 JUN 66 | NEZPERC | | SPRING | QUAGMIRE GROUP | 44 33.931 | 110 48.323 | 71.0 |
| F231C | 8 JUN 66 | NEZPERC | | SPRING | QUAGMIRE GROUP | 44 34.024 | 110 48.419 | 63.5 |
| BB233 | | NEZPERC | | SPRING | QUAGMIRE GROUP | 44 34.020 | 110 48.240 | 60.0 |
| FQ237 | 8 JUN 66 | NEZPERC | | SPRING | QUAGMIRE GROUP | 44 34.005 | 110 48.284 | 67.0 |
| RF239 | 8 JUN 66 | NEZPERC | SNORT | SPRING | QUAGMIRE GROUP | 44 34.061 | 110 48.302 | 95.0 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOWER GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| YF324 | | 7.50 | | | | | | | 84.8 | 16.8 | 0.38 | | 137.0[2] | | | 67.0[2] | | | | |
| YF325 | | 7.00 | | | | | | | 93.0 | 16.3 | 0.39 | | 130.0[2] | | | 72.5[2] | | | | |
| YF327 | | 7.10 | | | | | | | 85.1 | 13.6 | 0.43 | | 152.0[2] | | | 41.0[2] | | | | |
| YF329 | | 7.00 | | | | | | | 99.2 | 23.5 | 0.43 | | 164.0[2] | | | 41.5[2] | | | | |
| J7309 | | 7.14 | 251.0 | | | | 0.6 | 0.01 | 290.0 | 16.8 | 2.80 | 0.4 | 323.0 | | 20.0 | 242.0 | 19.5 | 26.00 | 0.2 | |
| YM237 | | | | | | | | | 44.3 | 13.7 | 0.25 | | 112.0 | | | 16.0[2] | 7.8 | | | |
| YM244 | | | | | | | | | 80.0 | 16.4 | 0.31 | | 123.0[2] | | | 50.0[2] | | | | |
| YF367 | | | 178.0 | | | | | | 402.0 | 16.5 | 1.60 | | | | | 295.0 | 23.7 | 2.40 | | 175 |
| T6608 | | 8.20 | | | | | | | 300.0 | 18.4 | 0.85 | | 421.0[2] | 1.4[2] | | 186.0[2] | | | | |
| YF366 | | 8.80 | 352.0 | | | | 0.7 | | 367.0 | 16.8 | 2.90 | | 373.0 | 35.0 | 35.5 | 313.0 | 22.0 | 2.50 | | |
| T6611 | | | | | | | | | 374.0 | 16.9 | 2.70 | | 332.0[2] | 41.0[2] | | 288.0[2] | | | | |
| YF546 | 9.0 | 9.37 | 414.0 | | 0.05 | | 0.5 | 0.01 | 380.0 | 12.5 | 2.80 | 3.0[2] | 380.0 | | 22.0 | 325.0 | 22.0 | 3.50 | 1.1[2] | |
| YF544 | 8.5 | 8.47 | 191.0 | | | | 4.6 | 0.05 | 350.0 | 20.0 | 2.40 | 0.2[2] | 343.0 | 22.0 | 29.0 | 270.0 | 20.8 | 2.90 | | |
| RF243 | | 8.50 | | | | | | | 275.0 | | 2.44 | | 257.0 | 7.2 | | 264.0 | | | | 1300 |
| RF244 | | 7.50 | | | | | | | 264.0 | | | | | | | 266.0 | | | | 1220 |
| RF245 | | 8.00 | | | | | | | 347.0 | | | | | | | 325.0 | | | | 1570 |
| YF342 | | | | | | | | | 293.0 | 8.3 | 3.10 | | | | | | | | | |
| YF358 | | | | | | | 1.0 | 0.01 | 274.0 | 11.7 | 1.90 | | 500.0 | 48.0 | 29.0 | 269.0 | 28.0 | 2.30 | | |
| YF359 | | | | | | | 0.4 | 0.03 | 317.0 | 11.5 | 3.30 | | 600.0 | 24.0 | 42.0 | 310.0 | 34.8 | 1.70 | | |
| YF364 | | 8.72 | | | | | 3.0 | 0.03 | 321.0 | 14.2 | 2.00 | | 337.0 | 24.5 | 27.8 | 250.0 | 24.2 | 1.60 | | |
| F231A | | 5.50 | | | | | | | 276.0 | | | | | | | 265.0 | | | | 1320 |
| F231C | | 6.50 | | | | | | | 311.0 | | | | | | | 328.0 | | | | 1400 |
| BB233 | | 7.50 | | | | | | | 325.0 | | | | | | | 332.0 | | | | 1310 |
| FQ237 | | 7.50 | | | | | | | 288.0 | | | | | | | 266.0 | | | | 1300 |
| RF239 | | 8.00 | | | | | | | 307.0 | 10.9 | 3.95 | | 8.5[2] | 78.0[2] | | 344.0[2] | | | | 1400 |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| LOWER GEYSER BASIN | | | | | | | | |
| YF353 | 10 JUN 67 | NEZPERC | SNORT | SPRING | QUAGMIRE GROUP | 44 34.061 | 110 48.302 | |
| YF542 | 9 SEP 72 | NEZPERC | SNORT | SPRING | QUAGMIRE GROUP | 44 34.061 | 110 48.302 | 92.0 |
| RF246 | 8 JUN 66 | NEZPERC | UNNAMED | SPRING | E OF WESTERN PORC HILL | 44 34.289 | 110 48.497 | 94.0 |
| RF247 | 8 JUN 66 | NEZPERC | UNNAMED | SPRING | SLOPE OF WESTERN PORC HILL | 44 34.343 | 110 48.762 | 87.5 |
| YF414 | 19 JUL 68 | NEZPERC | UNNAMED | SPRING | 70' E OF Y-13 DRILL HOLE 930 | 44 34.277 | 110 48.651 | 93.0 |
| YF354 | 10 JUN 67 | NEZPERC | UNNAMED | SPRING | NW PORCUPINE HILL ON NE SLOPE | 44 34.308 | 110 48.729 | |
| YF363 | 9 JUL 67 | NEZPERC | UNNAMED | SPRING | HILLSIDE N OF PORC HILL | 44 34.367 | 110 48.739 | |
| YM491 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | QUAGMIRE GROUP | 44 33.931 | 110 48.323 | 72.0 |
| YM492 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | QUAGMIRE GROUP | 44 34.040 | 110 48.169 | 74.0 |
| YM497 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | QUAGMIRE GROUP | 44 34.020 | 110 48.240 | 60.0 |
| YM498 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | QUAGMIRE GROUP | 44 34.040 | 110 48.201 | 86.0 |
| YM526 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | QUAGMIRE GROUP | 44 34.005 | 110 48.284 | 67.0 |
| YM527 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | QUAGMIRE GROUP | 44 34.008 | 110 48.263 | 72.0 |
| YM528 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | QUAGMIRE GROUP | 44 33.954 | 110 48.279 | 79.0 |
| YM529 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | QUAGMIRE GROUP | 44 33.949 | 110 48.254 | 64.0 |
| YM530 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | QUAGMIRE GROUP | 44 33.962 | 110 48.233 | 80.0 |
| YM531 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | QUAGMIRE GROUP | 44 34.055 | 110 48.077 | 84.0 |
| YM532 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | QUAGMIRE GROUP | 44 34.069 | 110 48.022 | 66.0 |
| YM533 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | QUAGMIRE GROUP | 44 34.061 | 110 48.302 | 93.0 |
| YM534 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | QUAGMIRE GROUP | 44 34.024 | 110 48.419 | 65.0 |
| YM535 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | QUAGMIRE GROUP | 44 34.040 | 110 48.433 | 93.0 |
| YM438 | 28 SEP 68 | NEZPERC | 'DEAD SAVAGE' | SPRING | MORNING MIST GROUP | 44 34.412 | 110 48.428 | 79.0 |
| YM449 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | MORNING MIST GROUP | 44 34.287 | 110 48.353 | 76.0 |
| YM536 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | MORNING MIST GROUP | 44 34.209 | 110 48.632 | 70.0 |
| YM537 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | MORNING MIST GROUP | 44 34.226 | 110 48.580 | 64.0 |
| YM538 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | MORNING MIST GROUP | 44 34.273 | 110 48.410 | 72.0 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOWER | GEYSER | BASIN | | | | | | | | | | | | | | | | | | |
| YF353 | | 9.30 | 242.0 | 0.18 | 0.01 | 0.01 | 1.6 | 0.04 | 314.0 | 10.0 | 4.00 | 0.1 | 41.0[2] | 69.0[2] | 23.0 | 344.0[2] | 33.0 | 4.10 | | 1550 |
| YF542 | 9.1 | 9.38 | 235.0 | | | | 1.5 | 0.01 | 310.0 | 10.2 | 3.70 | 0.2 | 174.0 | | 18.9 | 340.0 | 31.0 | 4.40 | 3.7 | |
| RF246 | | 8.00 | | | | | | | 332.0 | | 4.70 | | 154.0[2] | 49.0[2] | | 371.0 | 37.2 | 4.40 | | 1500 |
| RF247 | | 7.00 | | | | | | | 285.0 | 7.7 | 3.43 | | 156.0 | | | 305.0 | | | | 1420 |
| YF414 | | 9.15 | 280.0 | | 0.10 | 0.02 | 0.8 | 0.01 | 341.0 | 19.0 | 4.60 | 0.1 | 156.0 | 58.0 | 23.0 | 312.0 | 31.0 | 4.30 | | 1670 |
| YF354 | | | 222.0 | | | | | | | | | | 122.0[2] | | | 306.0[2] | | | | |
| YF363 | | 8.72 | | | | | | | 276.0 | 8.4 | 3.60 | | | | | 292.0 | 30.9 | 2.40 | | |
| YM491 | 7.0 | | 220.0 | | | | 1.3 | 0.03 | 277.0 | 7.6 | | | 244.0 | | 21.7 | 272.0 | | | | |
| YM492 | 7.0 | | 225.0 | | | | 1.4 | 0.03 | 287.0 | 9.0 | | | 162.0 | | 44.2 | 304.0 | | | | |
| YM497 | 7.0 | | 235.0 | | | | 1.7 | 0.02 | 305.0 | 10.5 | | | 187.0 | | 28.2 | 332.0 | | | | |
| YM498 | 7.5 | | 286.0 | | | | 1.7 | 0.02 | 301.0 | 12.4 | | | 174.0 | | 21.8 | 342.0 | | | | |
| YM526 | 7.0 | | 222.0 | | | | 2.1 | 0.02 | 300.0 | 9.2 | | | 203.0 | | 28.0 | 323.0 | | | | |
| YM527 | 7.0 | | 230.0 | | | | 1.5 | 0.02 | 298.0 | 8.9 | | | 186.0 | | 32.2 | 332.0 | | | | |
| YM528 | 7.0 | | 240.0 | | | | 1.5 | 0.05 | 252.0 | 9.6 | | | 209.0 | | 20.0 | 245.0 | | | | |
| YM529 | 6.5 | | 282.0 | | | | 4.0 | 0.04 | 258.0 | 11.1 | | | 213.0 | | 20.1 | 256.0 | | | | |
| YM530 | 6.0 | | 213.0 | | | | 2.5 | 0.06 | 223.0 | 7.6 | | | 180.0 | | 19.6 | 247.0 | | | | |
| YM531 | 6.0 | | 249.0 | | | | 0.5 | 0.02 | 44.0 | 6.5 | | | 60.4 | | 28.7 | 10.2 | | | | |
| YM532 | 7.0 | | 254.0 | | | | 4.7 | 0.10 | 226.0 | 10.4 | | | 352.0 | | 26.7 | 147.0 | | | | |
| YM533 | 7.0 | | 252.0 | | | | 1.8 | 0.01 | 309.0 | 10.5 | | | 175.0 | | 41.9 | 352.0 | | | | |
| YM534 | 7.0 | | 252.0 | | | | 1.3 | 0.02 | 311.0 | 10.0 | | | 154.0 | | 61.8 | 342.0 | | | | |
| YM535 | 7.0 | | 246.0 | | | | 1.6 | 0.02 | 271.0 | 7.6 | | | 142.0 | | 21.7 | 320.0 | | | | |
| YM438 | 8.0 | | 221.0 | | | | 0.9 | 0.01 | 331.0 | 8.0 | | | 259.0 | | 26.2 | 330.0 | | | | |
| YM449 | 7.0 | | 224.0 | | | | 1.4 | 0.03 | 313.0 | 10.5 | | | 222.0 | | 40.2 | 332.0 | | | | |
| YM536 | 8.5 | | 301.0 | | | | 0.7 | 0.01 | 349.0 | 13.8 | | | 297.0 | | 43.5 | 346.0 | | | | |
| YM537 | 7.0 | | 254.0 | | | | 1.2 | 1.01 | 305.0 | 9.6 | | | 251.0 | | 34.8 | 302.0 | | | | |
| YM538 | 8.0 | | 240.0 | | | | 1.2 | 0.02 | 314.0 | 9.1 | | | 216.0 | | 33.2 | 363.0 | | | | |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| LOWER GEYSER BASIN | | | | | | | | |
| YM553 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | MORNING MIST GROUP | 44 34.379 | 110 48.928 | 89.0 |
| YW 87 | 6 SEP 68 | NEZPERC | UNNAMED | SPRING | ON S SIDE CR 15' AB CR | 44 34.423 | 110 48.043 | 62.5 |
| YM445 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.301 | 110 47.724 | 71.0 |
| YM452 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.316 | 110 47.681 | 94.0 |
| M452A | 10 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN AT N TIP | 44 34.318 | 110 47.681 | 87.0 |
| YM453 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.382 | 110 47.644 | 63.0 |
| YM454 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.364 | 110 47.614 | 79.0 |
| M455A | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.338 | 110 47.628 | 93.0 |
| YM456 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.458 | 110 47.451 | 82.0 |
| YM457 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.477 | 110 47.403 | 93.0 |
| M457B | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.502 | 110 47.403 | 93.0 |
| YM458 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.580 | 110 47.302 | 89.0 |
| YM459 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.654 | 110 47.302 | 76.0 |
| YM463 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.843 | 110 47.256 | 72.0 |
| M463B | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN FURTHEST E OF SIO2 DEPOSITI | 44 34.846 | 110 47.208 | 89.0 |
| YM539 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.260 | 110 48.020 | 89.0 |
| YM540 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.250 | 110 47.963 | 78.0 |
| YM541 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.300 | 110 47.972 | 56.0 |
| YM542 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.377 | 110 47.674 | 77.0 |
| YM543 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN FURTHEST E OF ALKA SPG | 44 34.333 | 110 47.566 | 93.0 |
| YM544 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.415 | 110 47.616 | 93.0 |
| YW217 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN SAME AS YM 543 | 44 34.333 | 110 47.566 | 93.5 |
| YW218 | 28 SEP 68 | NEZPERC | UNNAMED | SPRING | CULEX BASIN | 44 34.520 | 110 47.545 | 93.0 |
| | | | | | | | | |
| YF274 | 13 JUN 66 | RIVER | BOULDER | SPRING | BASE OF SEDIMENTS SW OF OJO CAL | 44 33.520 | 110 50.610 | 92.0 |
| YF352 | 15 JUL 67 | RIVER | BOULDER | SPRING | | 44 33.520 | 110 50.610 | 93.0 |
| YF543 | 9 SEP 72 | RIVER | BOULDER | SPRING | | 44 33.520 | 110 50.610 | 95.0 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOWER GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| YM553 | 7.0 | | 205.0 | | | | 2.1 | 0.02 | 293.0 | 6.1 | | | 238.0 | | 15.5 | 288.0 | | | | |
| YW 87 | 6.0 | | 193.0 | | | | 3.0 | 0.12 | 219.0 | 9.6 | | | 163.0 | | 19.8 | 232.0 | | | | |
| YM445 | 7.0 | | 235.0 | | | | 1.3 | 0.02 | 283.0 | 10.2 | | | 215.0 | | 27.2 | 288.0 | | | | |
| YM452 | 7.5 | | 224.0 | | | | 1.1 | 0.02 | 271.0 | 10.1 | | | 207.0 | | 25.2 | 283.0 | | | | |
| M452A | 7.5 | | | | | | 1.2 | 0.02 | 264.0 | 9.8 | | | 205.0 | | 27.2 | 279.0 | | | | |
| YM453 | 7.0 | | 223.0 | | | | 1.8 | 0.02 | 291.0 | 8.4 | | | 193.0 | | 29.5 | 307.0 | | | | |
| YM454 | 7.5 | | 224.0 | | | | 1.3 | 0.01 | 285.0 | 8.4 | | | 203.0 | | 22.5 | 285.0 | | | | |
| M455A | 8.0 | | 248.0 | | | | 1.3 | 0.01 | 279.0 | 9.6 | | | 170.0 | | 25.6 | 315.0 | | | | |
| YM456 | 7.5 | | 221.0 | | | | 1.0 | 0.01 | 277.0 | 6.7 | | | 202.0 | | 24.6 | 290.0 | | | | |
| YM457 | | | 203.0 | | | | 1.1 | 0.02 | 261.0 | 9.0 | | | 266.0 | | 30.6 | 228.0 | | | | |
| M457B | 7.5 | | 203.0 | | | | 1.0 | 0.02 | 270.0 | 7.8 | | | 279.0 | | 34.0 | 236.0 | | | | |
| YM458 | 7.0 | | 179.0 | | | | 3.3 | 0.03 | 204.0 | 8.8 | | | 159.0 | | 24.0 | 215.0 | | | | |
| YM459 | 7.0 | | 225.0 | | | | 0.5 | 0.01 | 279.0 | 4.2 | | | 196.0 | | 31.2 | 309.0 | | | | |
| YM463 | 7.0 | | 272.0 | | | | 0.4 | 0.02 | 309.0 | 7.8 | | | 167.0 | | 32.2 | 342.0 | | | | |
| M463B | 7.0 | | | | | | 0.5 | 0.02 | 268.0 | 9.8 | | | 154.0 | | 21.7 | 405.0 | | | | |
| YM539 | 7.0 | | 187.0 | | | | 2.4 | 0.06 | 258.0 | 8.4 | | | 218.0 | | 23.0 | 255.0 | | | | |
| YM540 | 7.0 | | 188.0 | | | | 1.8 | 0.06 | 269.0 | 6.0 | | | 210.0 | | 26.9 | 278.0 | | | | |
| YM541 | 6.0 | | 206.0 | | | | 2.8 | 0.01 | 291.0 | 8.8 | | | 265.0 | | 31.9 | 272.0 | | | | |
| YM542 | 7.5 | | 221.0 | | | | 1.9 | 0.01 | 300.0 | 10.5 | | | 185.0 | | 34.6 | 337.0 | | | | |
| YM543 | 8.0 | | 242.0 | | | | 1.2 | 0.01 | 287.0 | 9.0 | | | 241.0 | | 56.0 | 286.0 | | | | |
| YM544 | 7.0 | | 188.0 | | | | 2.1 | 0.01 | 249.0 | 6.2 | | | 154.0 | | 30.2 | 265.0 | | | | |
| YW217 | 8.0 | | | | | | | | | | | | | | | | | | | |
| YW218 | 7.5 | | 235.0 | | | | 1.3 | 0.02 | 285.0 | 7.2 | | | 238.0 | | 22.4 | 288.0 | | | | |
| YF274 | 8.6 | 9.25 | | | | | | | 314.0 | 8.7 | 2.54 | | 141.0 | 57.5 | | 355.0 | | | | 1480 |
| YF352 | 8.6 | 9.15 | 211.0 | 0.45 | 0.02 | 0.01 | 1.0 | 0.02 | 322.0 | 8.9 | 2.60 | | 122.0 | 62.0 | 28.0 | 299.0 | 31.0 | | | |
| YF543 | 9.1 | 9.18 | 206.0 | | | | 0.9 | 0.01 | 325.0 | 8.3 | 2.80 | 0.1 | 260.0 | | 21.0 | 305.0 | 31.0 | 3.80 | 3.8 | |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| LOWER GEYSER BASIN | | | | | | | | |
| YF276 | 13 JUN 66 | RIVER | CAVERN | SPRING | POCKET BASIN | 44 33.582 | 110 49.965 | 74.0 |
| YF319 | 18 SEP 66 | RIVER | FORTRESS | GEYSER | BIG KETTLE-LIKE GEYSER | 44 33.369 | 110 49.923 | 95.0 |
| YF420 | 19 JUL 68 | RIVER | FORTRESS | GEYSER | | 44 33.369 | 110 49.923 | 95.0 |
| YF275 | 13 JUN 66 | RIVER | OJO CALIENTE | SPRING | | 44 33.770 | 110 50.271 | 95.0 |
| YF351 | 10 JUN 67 | RIVER | OJO CALIENTE | SPRING | | 44 33.770 | 110 50.271 | |
| YF537 | 9 SEP 72 | RIVER | OJO CALIENTE | SPRING | | 44 33.770 | 110 50.271 | 95.0 |
| YF317 | 18 SEP 66 | RIVER | UNNAMED | SPRING | 3RD SPG DS OF FORTRESS | 44 33.406 | 110 49.933 | 87.0 |
| YF421 | 19 JUL 68 | RIVER | UNNAMED | SPRING | ORLONG WITH DK GRN PPT | 44 33.406 | 110 49.933 | 85.0 |
| YF318 | 18 SEP 66 | RIVER | UNNAMED | SPRING | 2ND SPG PS OF FORTRESS | 44 33.387 | 110 49.927 | 83.0 |
| YF320 | 18 SEP 66 | RIVER | UNNAMED | POOL | RD POOL WITH SIO2 AND YELLOW SEDIMENT | 44 33.387 | 110 49.921 | 67.0 |
| YF321 | 18 SEP 66 | RIVER | UNNAMED | SPRING | MEADOW RIVER GRP FAR ABV RIVER | 44 0.000 | 110 0.000 | 72.0 |
| YF350 | 10 JUN 67 | RIVER | UNNAMED | SPRING | ON FNT FLATS RD NR TELEPHONE | 44 34.572 | 110 49.817 | |
| YF419 | 19 JUL 68 | RIVER | UNNAMED | SPRING | 1ST SPG N OF TANGLED CR E SIDE RIVER | 44 33.319 | 110 49.897 | 79.0 |
| YF422 | 19 JUL 68 | RIVER | UNNAMED | SPRING | SMALL SPG ABV RIVER S SIDE POCKET | 44 33.540 | 110 49.879 | 85.0 |
| YM041 | 31 MAY 66 | RIVER | UNNAMED | SPRING | NW SLOPE OF POCKET BASIN | 44 33.990 | 110 49.696 | 67.0 |
| YM175 | 19 SEP 66 | RIVER | UNNAMED | SPRING | E SIDE POCKET BASIN | 44 33.574 | 110 49.973 | 82.0 |
| YM177 | 19 SEP 66 | RIVER | UNNAMED | SPRING | E SIDE OF FIREHOLE R. | 44 33.469 | 110 49.925 | |
| M177A | 19 SEP 66 | RIVER | UNNAMED | SPRING | | 44 33.464 | 110 49.943 | |
| YM178 | 17 SEP 66 | RIVER | UNNAMED | SPRING | E SIDE OF FIREHOLE R. | 44 33.432 | 110 49.885 | 89.0 |
| YM179 | 19 SEP 66 | RIVER | UNNAMED | SPRING | | 44 33.395 | 110 49.904 | |
| M179B | 19 SEP 66 | RIVER | UNNAMED | SPRING | | 44 33.385 | 110 49.884 | |
| YM183 | 18 SEP 66 | RIVER | UNNAMED | SPRING | | 44 33.266 | 110 49.775 | 94.0 |
| YM185 | 18 SEP 66 | RIVER | UNNAMED | SPRING | LRG SPG E SIDE RIVER S END MIDWAY | 44 33.579 | 110 49.651 | 54.0 |
| YM188 | 19 SEP 66 | RIVER | UNNAMED | SPRING | | 44 33.452 | 110 49.893 | |
| YM190 | 19 SEP 66 | RIVER | UNNAMED | SPRING | W SIDE FIREHOLE TOT DISC FROM 5 VENTS | 44 33.291 | 110 50.115 | |
| YM190 | 19 SEP 66 | RIVER | UNNAMED | SPRING | | 44 33.291 | 110 50.115 | |
| YM191 | 19 SEP 66 | RIVER | UNNAMED | SPRING | | 44 33.357 | 110 50.080 | 79.5 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOWER GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| YF276 | | 8.35 | | | | | | | 310.0 | 8.8 | 3.91 | | 184.0 | 4.8 | | 316.0 | | | | 1490 |
| YF319 | | 9.42 | | | | | | | 346.0 | 13.3 | 2.78 | | 128.0[2] | 75.0[2] | | 310.0[2] | | | | |
| YF420 | | | 236.0 | | | | | | | | | | | | | | | | | |
| YF275 | | | | | | | | | 314.0 | | | | 214.0 | | | 345.0 | | | | 1530 |
| YF351 | | 8.31 | 242.0 | 1.00 | 0.18 | 0.01 | 1.1 | 0.02 | 317.0 | 9.2 | 4.50 | 0.1 | 241.0[2] | 4.2[2] | 27.0 | 331.0[2] | 33.0 | 4.00 | | 1610 |
| YF537 | 8.0 | 8.19 | 230.0 | | | | 0.9 | 0.02 | 335.0 | 9.5 | 4.20 | 0.3 | 225.0 | | 24.0 | 331.0 | 31.0 | 4.10 | 1.3 | |
| YF317 | 7.6 | | | | | | | | 314.0 | 14.7 | 2.24 | | 219.0[2] | | | 310.0[2] | | | | |
| YF421 | | | 233.0 | | | | | | | | | | | | | | | | | |
| YF318 | 7.0 | 9.15 | | | | | | | 333.0 | 14.8 | 2.48 | | 122.0[2] | 72.0[2] | | 316.0[2] | | | | |
| YF320 | 4.5 | 4.22 | | | | | | | 332.0 | 13.2 | 1.98 | | | | | 206.0[2] | | | | |
| YF321 | | 8.99 | | | | | | | 300.0 | 12.6 | 2.55 | | 60.0 | 60.0 | | 313.0[2] | | | | |
| YF350 | | | 263.0 | | | | | | | | | | 328.0[2] | 19.5[2] | | 262.0[2] | | | | |
| YF419 | 7.5 | | 236.0 | | | | | | | | | | | | | | | | | |
| YF422 | | | 276.0 | | | | | | | | | | | | | | | | | |
| YM041 | 7.0 | | | | | | 1.1 | 0.06 | 313.0 | | 4.00 | | 164.0[2] | | 72.0 | 305.0 | 33.7 | 4.40 | | |
| YM175 | 7.0 | 8.50 | 255.0 | 0.26 | | | 1.4 | | 332.0 | 15.3 | 2.67 | 0.5 | 184.0 | 8.6 | 44.7 | 330.0 | 27.9 | 4.56 | | |
| YM177 | | 8.58 | 190.0 | 0.05 | | 0.03 | 6.3 | 0.12 | 286.0 | 16.9 | 1.77 | 0.2 | 212.0 | 11.5 | 32.2 | 274.0 | 18.9 | 3.68 | | |
| M177A | 7.7 | 8.50 | 190.0 | 0.10 | | 0.03 | 6.8 | 0.12 | 287.0 | 16.9 | 1.87 | 0.1 | 232.0[2] | 8.6 | 35.3 | 271.0 | 18.6 | 3.50 | | |
| YM178 | 7.0 | 8.59 | | | | | | | 349.0 | 15.5 | 2.70 | | 147.0[2] | 46.0 | | 310.0[2] | | | | |
| YM179 | | 8.59 | 285.0 | 0.36 | | 0.01 | 1.1 | 0.01 | 346.0 | 17.8 | 2.46 | 0.3 | 212.0 | 12.7 | 45.4 | 317.0 | 25.6 | 4.50 | | |
| M179B | | 8.60 | | 0.32 | 0.02 | | 1.0 | 0.01 | 343.0 | 17.6 | 2.37 | 0.5 | 216.0 | 12.7 | 42.3 | 330.0 | 24.3 | 4.10 | | |
| YM183 | 7.5 | 9.07 | 220.0 | 0.44 | 0.01 | 0.01 | 1.1 | 0.02 | 340.0 | 11.9 | 2.24 | 0.2 | 213.0 | 42.0 | 37.0 | 293.0 | 23.2 | 3.90 | | |
| YM185 | 7.0 | 7.31 | | | | | | | 275.0 | 22.6 | 1.90 | | 320.0[2] | | | 236.0[2] | | | | |
| YM188 | | 8.72 | | 0.46 | 0.01 | 0.01 | 0.9 | 0.01 | 328.0 | 14.3 | 2.40 | 0.1 | 211.0 | 19.0 | 32.0 | 326.0 | 26.8 | 4.40 | | |
| YM190 | 7.5 | 9.15 | | | | | | | 351.0 | 14.5 | 3.50 | | 87.0[2] | 101.0[2] | | 331.0[2] | | | | |
| YM190 | 7.5 | 9.66 | | 0.16 | 0.01 | 0.01 | 0.7 | 0.01 | 362.0 | 15.3 | 3.70 | 0.2 | 67.0 | 122.0 | 40.0 | 320.0 | 30.0 | 4.30 | | |
| YM191 | 6.0 | 7.92 | | 0.45 | 0.01 | 0.01 | 1.1 | 0.04 | 363.0 | 8.3 | 3.57 | 0.2 | 170.0 | | 128.0 | 314.0 | 30.2 | 4.10 | | |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| LOWER GEYSER BASIN | | | | | | | | |
| YM192 | 19 SEP 66 | RIVER | UNNAMED | SPRING | W SIDE FIREHOLE BANK | 44 33.381 | 110 49.976 | 92.5 |
| M192B | 19 SEP 66 | RIVER | UNNAMED | SPRING | | 44 33.380 | 110 49.974 | 79.0 |
| YM194 | 19 SEP 66 | RIVER | UNNAMED | SPRING | LRG SPR AT SW END | 44 33.115 | 110 49.991 | 86.0 |
| YM194 | 19 SEP 66 | RIVER | UNNAMED | SPRING | | 44 33.115 | 110 49.991 | 86.0 |
| YM221 | 26 SEP 66 | RIVER | UNNAMED | SPRING | HUGE SPRING | 44 33.043 | 110 49.615 | 46.0 |
| YM224 | 28 SEP 66 | RIVER | UNNAMED | SPRING | | 44 32.592 | 110 49.633 | 28.5 |
| M296C | 19 OCT 66 | RIVER | UNNAMED | SPRING | | 44 33.697 | 110 50.145 | 63.0 |
| M296D | 19 OCT 66 | RIVER | UNNAMED | SPRING | S SIDE FIREHOLE ACR FRM 276 | 44 33.697 | 110 50.109 | 85.0 |
| YM299 | 6 AUG 67 | RIVER | UNNAMED | SPRING | | 44 33.703 | 110 49.964 | 87.5 |
| YM300 | 6 AUG 67 | RIVER | UNNAMED | SPRING | DEPOSITING BLACK PPT | 44 33.670 | 110 49.945 | 89.0 |
| M300C | 6 AUG 67 | RIVER | UNNAMED | SPRING | COMPLEX POOL FLOWING INTO ABV 2 | 44 33.686 | 110 49.942 | 85.0 |
| YM301 | 6 AUG 67 | RIVER | UNNAMED | SPRING | INTERMITTANT NOT DEPOSITING SIO2 | 44 33.686 | 110 49.943 | 84.7 |
| M301A | 6 AUG 67 | RIVER | UNNAMED | SPRING | S OF FLVC. POOL SE SIDE OF POCKET BASIN | 44 33.689 | 110 49.947 | |
| YM502 | 16 SEP 68 | RIVER | UNNAMED | SPRING | E BANK FIREHOLE N OF POCKET BASIN, | 44 34.234 | 110 49.968 | 91.0 |
| YM591 | 28 AUG 69 | RIVER | UNNAMED | SPRING | | 44 33.540 | 110 49.879 | |
| YM606 | 15 SEP 69 | RIVER | UNNAMED | SPRING | | 44 33.792 | 110 49.883 | 56.0 |
| YM607 | 15 SEP 69 | RIVER | UNNAMED | SPRING | | 44 33.763 | 110 49.895 | 53.0 |
| YM609 | 16 SEP 69 | RIVER | UNNAMED | SPRING | | 44 33.796 | 110 50.014 | 74.0 |
| YM611 | 16 SEP 69 | RIVER | UNNAMED | SPRING | | 44 33.795 | 110 50.205 | 80.0 |
| YM612 | 16 SEP 69 | RIVER | UNNAMED | SPRING | | 44 33.766 | 110 50.100 | 55.0 |
| YM614 | 16 SEP 69 | RIVER | UNNAMED | SPRING | | 44 33.703 | 110 49.963 | 86.0 |
| YM616 | 16 SEP 69 | RIVER | UNNAMED | SPRING | | 44 33.703 | 110 49.947 | 80.0 |
| YM619 | 17 SEP 69 | RIVER | UNNAMED | SPRING | | 44 33.615 | 110 50.000 | 93.0 |
| YM623 | 17 SEP 69 | RIVER | UNNAMED | SPRING | | 44 33.624 | 110 49.927 | 60.0 |
| M629A | 17 SEP 69 | RIVER | UNNAMED | SPRING | | 44 33.745 | 110 50.061 | 68.0 |
| M629D | 17 SEP 69 | RIVER | UNNAMED | SPRING | | 44 33.742 | 110 50.113 | 77.0 |
| YM630 | 17 SEP 69 | RIVER | UNNAMED | SPRING | | 44 33.726 | 110 50.079 | 74.0 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOWER GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| YM192 | 8.0 | 9.25 | | | | | | | 344.0 | 11.2 | 2.70 | | 49.0 [2] | 132.0 [2] | | 300.0 [2] | | | | |
| M192B | 7.0 | 7.91 | | 0.18 | 0.01 | 0.01 | 1.1 | 0.02 | 306.0 | 6.8 | 2.83 | 0.2 | 245.0 | | 44.0 | 260.0 | 24.8 | 3.60 | | |
| YM194 | 7.0 | 8.25 | | | | | | | 386.0 | 13.6 | 1.70 | | 367.0 [2] | 24.0 [2] | | 309.0 [2] | | | | |
| YM194 | 7.0 | 8.82 | | 0.36 | 0.01 | 0.10 | 0.5 | 0.01 | 396.0 | 14.1 | 2.20 | 0.2 | 362.0 | 43.0 | 27.0 | 294.0 | 27.3 | 3.80 | | |
| YM221 | 6.0 | | | | | | | | 180.0 | 19.4 | 1.20 | | 258.0 [2] | | | 145.0 [2] | | | | |
| YM224 | 6.0 | | | | | | | | 152.0 | 13.4 | 1.10 | | 181.0 [2] | | | 120.0 [2] | | | | |
| M296C | 7.0 | 8.52 | | 0.27 | 0.01 | 0.01 | 1.0 | 0.01 | 362.0 | 12.4 | 4.40 | 0.3 | 202.0 | 11.0 | 56.0 | 343.0 | 31.4 | 4.60 | | |
| M296D | 7.0 | 8.59 | | 0.37 | 0.01 | 0.01 | 1.1 | 0.01 | 346.0 | 11.5 | 4.36 | 0.2 | 208.0 | 12.3 | 44.3 | 333.0 | 30.0 | 4.50 | | |
| YM299 | 7.0 | | | | | | | | 240.0 | 8.4 | | | 274.0 | | | 231.0 | | | | |
| YM300 | 6.5 | | | | | | | | 225.0 | 12.8 | | | 103.0 | | | 214.0 | | | | |
| M300C | 5.0 | | | | | | | | 126.0 | 16.6 | | | 137.0 | | | 226.0 | | | | |
| YM301 | | 9.18 | 250.0 | 0.82 | 0.19 | 0.01 | 1.3 | 0.05 | 325.0 | 15.2 | 2.85 | 0.4 | 85.0 | 48.0 | 60.0 | 323.0 | 28.8 | 4.40 | | |
| M301A | 7.0 | | | | | | | | 303.0 | 14.3 | | | | | 57.0 | 312.0 | | | | |
| YM502 | 7.5 | | | | | | 1.1 | 0.04 | 327.0 | 11.1 | | | 283.0 | | 25.0 | 306.0 | | | | |
| YM591 | 7.5 | 9.19 | 260.0 | 0.24 | 0.01 | 0.01 | 1.1 | 0.01 | 321.0 | 12.6 | 2.36 | 0.3 | 92.0 | 45.0 | 48.0 | 313.0 | 26.7 | 4.30 | | |
| YM606 | 7.0 | 8.80 | 215.0 | 0.32 | 0.01 | 0.01 | 1.1 | 0.01 | 337.0 | 9.3 | 4.09 | 0.2 | 155.0 | 22.0 | 51.0 | 334.0 | 30.8 | 4.44 | | |
| YM607 | 7.0 | 8.82 | 230.0 | 0.29 | 0.01 | 0.01 | 0.8 | 0.01 | 337.0 | 9.8 | 4.08 | 0.2 | 152.0 | 25.0 | 52.0 | 323.0 | 30.3 | 7.00 | | |
| YM609 | 7.0 | 8.56 | 230.0 | 0.29 | 0.01 | 0.01 | 1.0 | 0.02 | 332.0 | 10.9 | 4.03 | 0.3 | 181.0 | 9.8 | 56.0 | 320.0 | 29.8 | 4.40 | | |
| YM611 | 7.0 | 8.47 | 240.0 | 0.10 | 0.01 | 0.01 | 0.8 | 0.01 | 328.0 | 5.0 | 3.95 | 0.3 | 208.0 | 7.8 | 40.0 | 306.0 | 29.3 | 4.30 | | |
| YM612 | 7.5 | 9.23 | 210.0 | 0.22 | 0.01 | 0.02 | 1.0 | 0.01 | 328.0 | 7.5 | 4.05 | 0.2 | 106.0 | 56.0 | 48.7 | 314.0 | 29.0 | 4.30 | | |
| YM614 | 6.5 | 8.13 | 195.0 | 0.31 | 0.01 | 0.03 | 1.1 | 0.05 | 256.0 | 9.2 | 2.92 | 0.3 | 100.0 | | 95.0 | 242.0 | 22.0 | 3.30 | | |
| YM616 | 7.0 | 8.39 | 175.0 | 0.14 | 0.01 | 0.01 | 1.2 | 0.05 | 299.0 | 11.2 | 3.64 | 0.2 | 161.0 | 4.0 | 64.0 | 285.0 | 25.8 | 3.90 | | |
| YM619 | 8.0 | 9.39 | 230.0 | 0.18 | 0.01 | 0.01 | 0.9 | 0.01 | 339.0 | 12.5 | 3.37 | 0.3 | 73.0 | 75.0 | 39.0 | 323.0 | 27.9 | 4.40 | | |
| YM623 | 4.0 | 3.28 | | 3.30 | 1.40 | 0.32 | 6.2 | 3.36 | 77.5 | 38.1 | 0.74 | 0.8 | | | 193.0 | 53.0 | 2.5 | 0.80 | | |
| M629A | 7.0 | 8.18 | | 0.28 | 0.01 | 0.01 | 1.0 | 0.02 | 315.0 | 9.1 | 4.08 | 0.1 | 188.0 | | 57.0 | 310.0 | 29.0 | 4.00 | | |
| M629D | 7.0 | 8.10 | | 0.28 | 0.01 | 0.01 | 0.9 | 0.01 | 325.0 | 7.3 | 4.21 | 0.3 | 212.0 | | 47.0 | 310.0 | 30.0 | 4.30 | | |
| YM630 | 7.0 | 8.09 | | 0.32 | 0.01 | 0.01 | 1.0 | 0.01 | 325.0 | 11.0 | 4.21 | 0.3 | 198.0 | | 56.0 | 314.0 | 30.3 | 4.30 | | |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| LOWER GEYSER BASIN | | | | | | | | |
| YM633 | 17 SEP 69 | RIVER | UNNAMED | SPRING | | 44 33.582 | 110 49.955 | 88.0 |
| YM634 | 19 SEP 69 | RIVER | UNNAMED | SPRING | | 44 33.541 | 110 49.974 | 93.0 |
| YM639 | 20 SEP 69 | RIVER | UNNAMED | SPRING | | 44 33.553 | 110 49.986 | 75.0 |
| YM640 | 21 SEP 69 | RIVER | UNNAMED | SPRING | | 44 33.990 | 110 49.729 | 61.0 |
| YF269 | JUN 66 | FAIRY | IMPERIAL | GEYSER | | 44 31.901 | 110 52.514 | 93.0 |
| YF406 | JUL 68 | FAIRY | IMPERIAL | GEYSER | | 44 31.901 | 110 52.514 | 93.0 |
| T6628 | 66 | FAIRY | IMPERIAL | SPRING | | 44 31.901 | 110 52.514 | 90.0 |
| YF271 | JUN 66 | FAIRY | LOCOMOTIVE | SPRING | | 44 33.230 | 110 51.509 | 94.0 |
| YF407 | JUL 68 | FAIRY | LOCOMOTIVE | GEYSER | | 44 33.230 | 110 51.509 | |
| YF268 | JUN 66 | FAIRY | SPRAY | GEYSER | | 44 31.898 | 110 52.349 | 92.0 |
| YF405 | JUL 68 | FAIRY | SPRAY | GEYSER | | 44 31.898 | 110 52.349 | 93.0 |
| YF267 | JUN 66 | FAIRY | UNNAMED | SPRING | BASE OF FAIRY FALLS | 44 31.539 | 110 52.165 | 16.0 |
| YF272 | JUN 66 | FAIRY | UNNAMED | SPRING | NORTH OF LOCOMOTIVE | 44 33.247 | 110 51.528 | 93.0 |
| YF273 | JUN 66 | FAIRY | UNNAMED | SPRING | EAST OF FAIRY GRP NR RD | 44 32.462 | 110 51.307 | 92.0 |
| YF341 | SEP 66 | FAIRY | UNNAMED | SPRING | E END OF LOWER FAIRY GRP | | | |
| YF553 | 10 SEP 72 | FAIRY | UNNAMED | SPRING | END OF FAIRY MEADOW | 44 33.082 | 110 50.944 | 87.0 |
| YM 98 | | FAIRY | UNNAMED | GEYSER | GEYSER POOL AT SE CORNER LOWER FAIRY | 44 32.658 | 110 53.390 | 89.5 |
| YM102 | | FAIRY | UNNAMED | POOL | BUBBLING POOL AT SW EDGE LOWER FAIRY | 44 33.026 | 110 52.028 | 93.2 |
| YM106 | | FAIRY | UNNAMED | SPRING | NE EDGE OF LOWER FAIRY GRP | 44 33.118 | 110 51.330 | 87.0 |
| YM112 | | FAIRY | UNNAMED | SPRING | NW MOST SPG OF LOWER FAIRY GRP | 44 33.039 | 110 51.367 | 83.5 |
| YM158 | | FAIRY | UNNAMED | SPRING | 0.6 MI NW OF TWIN BUTTE | 44 33.020 | 110 51.005 | 26.5 |
| YM162 | | FAIRY | UNNAMED | SPRING | WOODS W OF FAIRY MEADOW BTW 2 SPG GP | 44 32.816 | 110 50.927 | 54.0 |
| YF278 | JUL 68 | SENTINL | QUEEN'S LAUNDRY | SPRING | | 44 33.816 | 110 52.156 | 90.0 |
| YF401 | JUL 68 | SENTINL | QUEEN'S LAUNDRY | SPRING | | 44 33.816 | 110 52.156 | 92.0 |
| YF279 | JUN 66 | SENTINL | STEEP CONE | GEYSER | | 44 33.964 | 110 51.771 | 95.0 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YM633 | 7.5 | 9.00 | 250.0 | 0.25 | 0.01 | 0.01 | 1.3 | 0.01 | 328.0 | 14.1 | 2.50 | 0.5 | 127.0 | 32.0 | 40.0 | 321.0 | 28.0 | 4.40 | | |
| YM634 | | 8.08 | | 0.21 | 0.01 | 0.01 | 1.0 | 0.01 | 325.0 | 12.1 | 2.62 | 0.4 | 210.0 | | 46.0 | 312.0 | 26.8 | 4.10 | | |
| YM639 | 7.0 | 7.80 | | 0.36 | 0.01 | 0.01 | 1.0 | 0.01 | 325.0 | 9.6 | 2.80 | 0.2 | 209.0 | | 48.0 | 307.0 | 24.7 | 4.20 | | |
| YM640 | 6.0 | 8.33 | | 0.33 | 0.01 | 0.01 | 0.9 | 0.01 | 333.0 | 11.0 | 4.29 | 0.2 | 212.0 | 4.0 | 44.0 | 322.0 | 31.0 | 4.40 | | |
| LOWER | GEYSER | BASIN | | | | | | | | | | | | | | | | | | |
| YF269 | | | | | | | 1.0 | 0.01 | 290.0 | 12.4 | 2.40 | | 298.0[2] | 41.0[2] | 31.0 | 222.0 | 24.0 | 2.90 | | 1300 |
| YF406 | | | 244.0 | | | | | | | | | | | | | | | | | |
| T6628 | 7.0 | | | | | | | | 307.0 | 12.2 | 2.50 | | 216.0[2] | 84.0[2] | | 202.0[2] | | | | |
| YF271 | | 8.70 | | | | | | | 251.0 | 4.2 | 1.46 | | 258.0 | 17.0 | | 198.0 | | | | 1150 |
| YF407 | | | 167.0 | | | | | | | | | | | | | | | | | |
| YF268 | | 9.20 | | | | | | | 271.0 | 11.0 | 2.25 | | 230.0 | 58.0 | | 199.0 | | | | 1250 |
| YF405 | | | 226.0 | | | | | | | | | | | | | | | | | |
| YF267 | | | | | | | | | | | | | | | | 1.6 | | | | 40 |
| YF272 | | | | | | | | | 344.0 | | | | | | | 275.0 | | | | 1400 |
| YF273 | | | | | | | | | 377.0 | | | | | | | 285.0 | | | | 1620 |
| YF341 | | | | | | | | | 21.3 | 25.2 | 0.04 | | | | | | | | | |
| YF553 | 8.2 | 8.72 | 289.0 | | | | 0.5 | 0.01 | 390.0 | 14.4 | 3.40 | 0.1 | 395.0 | | 34.0 | 319.0 | 33.0 | 3.90 | | |
| YM 98 | | | | | | | 0.6 | 0.01 | 372.0 | 11.9 | 2.80 | | 317.0 | 4.3 | 37.0 | 308.0 | 31.5 | 5.70 | | |
| YM102 | | 8.45 | | | | | | | 364.0 | | | | 378.0 | 9.6 | | 319.0 | | | | |
| YM106 | | | | | | | | | 388.0 | | | | | | | 376.0 | | | | |
| YM112 | | 7.68 | | | | | 3.1 | 0.07 | 297.0 | 12.2 | 1.40 | | 362.0 | | 22.0 | 222.0 | 26.3 | 2.90 | | |
| YM158 | | | | | | | | | 16.2 | 2.2 | 0.09 | | 37.0[2] | | | 1.0[2] | 3.3 | 0.01 | | |
| YM162 | | | | | | | | | 124.0 | 9.7 | 0.06 | | 161.0[2] | | | 79.3[2] | 13.7 | 1.30 | | |
| YF278 | | | | | | | | | 322.0 | 12.4 | 2.20 | | 327.0[2] | 19.0 | | 253.0[2] | 27.9 | 3.40 | | 1380 |
| YF401 | | | 348.0 | | | | | | | | | | | | | | | | | |
| YF279 | | | | | | | | | 303.0 | | | | | | | 276.0 | | | | 1320 |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| LOWER GEYSER BASIN | | | | | | | | |
| YF400 | JUL 68 | SENTINL | STEEP CONE | GEYSER | | 44 33.964 | 110 51.771 | 95.0 |
| YF281 | JUN 66 | SENTINL | UNNAMED | SPRING | | 44 33.875 | 110 51.812 | 87.0 |
| YF282 | JUN 66 | SENTINL | UNNAMED | SPRING | E END OF SENTINEL GROUP | 44 33.872 | 110 51.550 | 94.0 |
| YF399 | JUL 68 | SENTINL | UNNAMED | SPRING | SMALL SPG GRP OF 4 CONNECTED POOLS | 44 33.941 | 110 51.766 | 93.0 |
| YM70 | | SENTINL | QUEEN'S LAUNDRY | SPRING | | 44 33.816 | 110 52.156 | |
| YM87 | | SENTINL | UNNAMED | SPRING | WESTERNMOST LARGE SPG IN SENTINEL MDW | 44 34.167 | 110 52.624 | 42.0 |
| SECRET VALLEY HOT SPRINGS | | | | | | | | |
| YM348 | | | UNNAMED | SPRING | MN DEPOSITING SPG | 44 40.276 | 110 47.169 | 0.0 |
| T6728 | 67 | | UNNAMED | SPRING | MN DEPOSITING SPG | 44 40.276 | 110 47.169 | 35.0 |
| TERRACE HOT SPRINGS | | | | | | | | |
| T6922 | SEP 69 | | TERRACE | SPRING | | 44 33.930 | 110 51.783 | 66.0 |
| YF528 | MAY 72 | | UNNAMED | SPRING | ABV MAIN ORIFICE | 44 33.930 | 110 51.780 | 65.0 |
| YF529 | MAY 72 | | TERRACE | SPRING | NR FOUNTAINING WATER | 44 33.930 | 110 51.783 | |
| YF545 | 9 SEP 72 | | TERRACE | SPRING | NR FOUNTAINING WATER | 44 33.930 | 110 51.783 | 60.1 |
| J7316 | 27 SEP 73 | | TERRACE | SPRING | NR FOUNTAINING WATER | 44 33.930 | 110 51.783 | 59.0 |
| GIBBON MEADOWS HOT SPRINGS | | | | | | | | |
| YF426 | 29 SEP 68 | | SYLVAN SPRING | SPRING | | 44 42.030 | 110 46.387 | 93.0 |
| YF460 | 9 SEP 69 | | SYLVAN SPRING | SPRING | | 44 42.030 | 110 46.387 | |
| T7382 | SEP 73 | | SYLVAN SPRING | SPRING | | 44 42.030 | 110 46.387 | |
| YF372 | 15 OCT 67 | | UNNAMED | SPRING | NE GIBBON HILL NEUTRAL SPG | 44 42.240 | 110 41.691 | 64.0 |
| YF373 | 15 OCT 67 | | UNNAMED | SPRING | E OF GIBBON HILL | 44 42.326 | 110 41.728 | 55.0 |
| YF374 | 15 OCT 67 | | UNNAMED | SPRING | E OF GIBBON HILL SMALL ACID SPG | 44 42.454 | 110 41.844 | 46.0 |
| YF461 | 9 SEP 69 | | UNNAMED | SPRING | SW SIDE OF GIBBON HILL | 44 41.711 | 110 46.724 | 67.5 |
| YM21 | | | UNNAMED | SPRING | JUST NW OF GIBBON HILL | 44 42.686 | 110 42.793 | 89.0 |
| YM152 | | | UNNAMED | SPRING | NE OF GIBBON HILL | 44 42.507 | 110 40.691 | 66.5 |
| J7313 | 25 SEP 73 | | UNNAMED | SPRING | 0.9 MI N OF BERYL | 44 41.395 | 110 44.737 | 52.0 |
| J7314 | 25 SEP 73 | | UNNAMED | SPRING | 1.3 MI N OF GIBBON FALLS | 44 40.122 | 110 44.562 | 31.0 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOWER GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| YF400 | | | 358.0 | | | | | | | | | | | | | | | | | |
| YF281 | | | | | | | | | 203.0 | | | | | | | 219.0 | | | | 1000 |
| YF282 | | | | | | | | | 309.0 | 9.9 | 1.70 | | | 113.0 [2] | | 300.0 | 31.9 | 3.80 | | 1380 |
| YF399 | | | 336.0 | | | | | | 313.0 | 9.1 | | | | | 26.5 | 257.0 | | | | |
| YM70 | | | | | | | | | 345.0 | | | | 375.0 | | | 236.0 | | | | |
| YM87 | | | | | | | | | 54.0 | | | | | | | 37.0 | | | | |
| SECRET VALLEY HOT SPRINGS | | | | | | | | | | | | | | | | | | | | |
| YM348 | | | | | | | | | | | | | 187.0 | | | 2.0 | | | | |
| T6728 | 6.0 | | | | | | | | 42.0 | 7.7 | | | 71.0 | | 4.0 | | | | | |
| TERRACE HOT SPRINGS | | | | | | | | | | | | | | | | | | | | |
| T6922 | 6.3 | 8.79 | 148.0 | 0.18 | 0.15 | 0.12 | 6.7 | 0.82 | 324.0 | 36.6 | 0.62 | | 696.0 | 50.0 | 10.7 | 69.0 | 6.7 | 1.14 | | |
| YF528 | | 8.37 | 160.0 | 0.03 | 0.05 | 0.09 | 25.0 | 0.89 | 325.0 | 37.0 | 0.70 | 0.1 | 857.0 | | 15.0 | 70.0 | 5.7 | 1.10 | | 1400 |
| YF529 | | 8.10 | 160.0 | 0.09 | 0.05 | 0.12 | 22.0 | 0.87 | 300.0 | 32.0 | 0.70 | 0.1 | 783.0 | | 15.0 | 65.0 | 6.1 | 1.10 | | 1310 |
| YF545 | | 8.60 | 146.0 | | | | 22.0 | 0.87 | 315.0 | 34.5 | 0.60 | 0.1 [1] | 645.0 | 54.0 | 16.0 | 64.0 | 6.9 | 1.00 | | |
| J7316 | 6.7 | 7.33 | 153.0 | | | | 21.8 | 0.90 | 305.0 | 32.5 | 0.75 | 0.1 [1] | 778.0 | | 13.0 | 65.0 | 6.8 | 1.30 | | |
| GIBBON MEADOWS HOT SPRINGS | | | | | | | | | | | | | | | | | | | | |
| YF426 | | 7.10 | 675.0 | | 0.10 | | 3.6 | 0.01 | 383.0 | 65.0 | 5.70 | 1.0 | 41.0 | | 178.0 | 484.0 | 17.0 | 8.50 | | 2160 |
| YF460 | | 7.95 | | 1.25 | | | 3.7 | 0.02 | 395.0 | 56.8 | 5.90 | | 63.0 | | 148.0 | 559.0 | 20.8 | | | |
| T7382 | | 5.66 | 626.0 | | | | 4.3 | 0.01 | 410.0 | 44.0 | 4.80 | | 44.0 | | 192.0 | 531.0 | 17.6 | 1.90 | | |
| YF372 | | 8.40 | 210.0 | | | | | | 72.0 | 22.0 | 0.25 | | 136.0 | 3.8 | 49.0 | 7.8 | | | | |
| YF373 | 5.5 | 8.40 | 195.0 | | | | | | 64.0 | 20.0 | 0.25 | | 147.0 | | 25.0 | 11.0 | | | | |
| YF374 | 3.5 | | 200.0 | | 4.00 | | | | 12.0 | 18.0 | 0.30 | | | | 23.0 | 3.0 | | | | |
| YF461 | 6.5 | 8.58 | 162.0 | 0.22 | 0.01 | 0.04 | 12.0 | 2.32 | 62.6 | 14.5 | 0.12 | 0.3 | 190.0 | 9.9 | 4.0 | 1.6 | 7.0 | 0.03 | | |
| YM21 | | | | | | | | | 269.0 | 39.0 | 1.60 | | 427.0 [2] | 19.0 | | 88.0 | 15.3 | 1.70 | | |
| YM152 | | 5.66 | 626.0 | | | | | | 71.0 | 22.0 | 0.25 | | 144.0 [2] | | 60.0 | 5.1 [2] | 9.2 | 0.15 | | |
| J7313 | 6.5 | 6.30 | 154.0 | | | | 15.2 | 1.20 | 60.0 | 10.5 | 0.20 | 0.1 [1] | 172.0 | | 7.0 | 7.0 | 8.0 | 0.10 | 0.2 | [1,2] |
| J7314 | 6.2 | 5.99 | 131.0 | | | | 14.6 | 1.00 | 24.0 | 5.0 | 0.10 | 0.1 [1] | 107.0 | | 2.0 | 0.8 | 8.4 | 0.10 | 0.2 | [1,2] |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| GIBBON MEADOWS HOT SPRINGS | | | | | | | | |
| J7315 | 25 SEP 73 | | UNNAMED | SPRING | 2.5 MI N OF GIBBON FALLS | 44 3.973 | 110 4.518 | 32.0 |
| YF571 | 14 SEP 72 | | UNNAMED | SPRING | COLD SPG AT SYLVAN AREA | | | 5.0 |
| NORRIS GEYSER BASIN | | | | | | | | |
| YF175 | 25 MAY 66 | | CISTERN | SPRING | | 44 43.998 | 110 42.160 | 92.0 |
| YF361 | 19 JUL 67 | | CISTERN | SPRING | | 44 43.998 | 110 42.160 | 93.0 |
| YF497 | 3 JUN 71 | | CISTERN | GEYSER | | 44 42.938 | 110 42.041 | |
| YF558 | 11 SEP 73 | | CISTERN | SPRING | | 44 43.998 | 110 42.160 | 95.0 |
| YF572 | AUG 72 | | EBONY | GEYSER | | 44 43.388 | 110 42.263 | |
| YF379 | 18 OCT 67 | | ECHINUS | GEYSER | | 44 42.938 | 110 42.041 | |
| YF496 | 31 MAY 70 | | ECHINUS | GEYSER | | 44 42.938 | 110 42.041 | |
| YF378 | 18 OCT 67 | | GREEN DRAGON | SPRING | | 44 42.819 | 110 42.335 | 92.0 |
| YF518 | 27 SEP 71 | | GREEN DRAGON | SPRING | | 44 42.819 | 110 42.335 | |
| YF505 | 7 JUN 71 | | HARDING | GEYSER | | 44 42.528 | 110 42.099 | 93.0 |
| YF402 | 6 JUL 68 | | LEDGE | GEYSER | | 44 43.565 | 110 42.271 | 93.0 |
| YF376 | 18 OCT 67 | | LITTLEWHIRLIGIG | GEYSER | | 44 42.651 | 110 42.138 | 93.0 |
| YF555 | 11 SEP 72 | | LITTLEWHIRLIGIG | GEYSER | | 44 42.651 | 110 42.138 | 92.0 |
| YF185 | 25 MAY 66 | | PEARL | GEYSER | | 44 42.958 | 110 42.361 | 84.0 |
| YF377 | 18 OCT 67 | | PERPETUAL SPOUT | GEYSER | | 44 43.213 | 110 42.465 | 92.5 |
| YF499 | 3 JUN 71 | | PERPETUAL SPOUT | GEYSER | | 44 43.213 | 110 42.465 | |
| YF556 | 11 SEP 72 | | PERPETUAL SPOUT | GEYSER | | 44 43.213 | 110 42.465 | 92.0 |
| YF186 | 25 MAY 66 | | PORK CHOP | SPRING | | 44 43.949 | 110 42.408 | 87.0 |
| YF498 | 3 JUN 71 | | PORK CHOP | SPRING | | 44 42.949 | 110 42.408 | 94.5 |
| YF557 | 11 SEP 72 | | PORK CHOP | SPRING | | 44 42.949 | 110 42.408 | 91.0 |
| YF375 | 18 OCT 67 | | PRIMROSE | SPRING | | 44 43.342 | 110 42.034 | 93.0 |
| YF428 | 3 JUN 68 | | STEAMBOAT | GEYSER | | 44 43.398 | 110 42.138 | |
| YF383 | 21 OCT 67 | | VERMILION | SPRING | | 44 43.665 | 110 42.004 | 80.0 |
| YF360 | 19 JUL 67 | | UNNAMED | SPRING | BASE OF PORCLAN TERRACE | 44 43.344 | 110 41.958 | 94.0 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GIBBON MEADOWS HOT SPRINGS | | | | | | | | | | | | | | | | | | | | |
| J7315 | 6.2 | 6.23 | 138.0 | | | | 10.5 | 1.10 | 73.0 | 11.0 | 0.40 | 0.1[1] | 197.0 | | 2.0 | 8.2 | 6.3 | 0.20 | 0.2[1,2] | |
| YF571 | 7.7 | 7.80 | 26.0 | | | | 9.4 | 16.00 | 3.0 | 1.0 | 0.02 | 0.1[1] | 39.0 | | 2.0 | 0.2 | 1.8 | 0.10 | | |
| NORRIS GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| YF175 | | 6.98 | | | | | | | 300.0 | 56.0 | 3.76 | | 39.0 | | | 455.0 | | | | 1700 |
| YF361 | | 7.11 | 490.0[2] | 0.11 | 0.01 | 0.05 | 2.4 | 0.07 | 316.0 | 62.0 | 4.30 | 0.6 | 35.0 | | 82.0 | 476.0 | 5.4 | 7.20 | | 1910 |
| YF497 | | | | | | | 4.3 | 0.56 | 149.0 | 51.8 | 1.02 | | | | 283.0 | 112.0 | 4.5 | | | |
| YF558 | 7.4 | 7.30 | 487.0 | | 0.05 | | 2.6 | 0.03 | 310.0 | 65.0 | 3.60 | 0.9[2] | 60.0 | | 102.0 | 464.0 | 5.4 | 7.80 | 1.2[2] | |
| YF572 | | 7.10 | 470.0 | 0.17 | 0.25 | 0.04 | 3.4 | 0.12 | 402.0 | 65.9 | 5.90 | 0.5 | 14.2 | | 42.0 | 650.0 | 5.6 | 9.60 | | |
| YF379 | | | 265.0[2] | 0.60 | 3.20 | | | | 153.0 | 56.0 | 0.86 | | | | 370.0 | 106.0 | | | | |
| YF496 | | | 271.0 | | | | | | | | | | | | | | | | | |
| YF378 | | | 447.0[2] | 1.50 | 0.40 | | | | 273.0 | 62.0 | 4.00 | | | | 102.0 | 447.0 | | | | |
| YF518 | | | 334.0 | | | | 5.6 | 1.40 | 145.0 | 61.0 | 2.30 | | | | 190.0 | 216.0 | 4.2 | 4.40 | | |
| YF505 | | 3.53 | 325.0 | | | | 0.9 | 0.25 | 264.0 | 18.0 | 0.09 | | | | 123.0 | 2.0 | | | | |
| YF402 | | 7.45 | 582.0 | | | | 0.4 | 0.39 | 402.0 | 84.8 | 8.00 | | 27.7 | | 52.0 | 680.0 | | | | |
| YF376 | | | 447.0[2] | 1.50 | 0.40 | | | | 348.0 | 79.0 | 5.30 | | | | 83.0 | 609.0 | | | | |
| YF555 | 3.1 | 3.30 | 561.0 | | 1.30 | | 2.0 | 0.10 | 345.0 | 88.0 | 4.60 | 6.0[2] | | | 81.0 | 582.0 | 4.4 | 8.80 | 0.9[2] | |
| YF185 | | 6.76 | | | | | | | 430.0 | | | | | | | 740.0 | | | | 2400 |
| YF377 | 7.4 | | 273.0 | | | | | | 368.0 | 47.0 | 5.10 | | 23.6 | | 72.0 | 578.0 | | | | |
| YF499 | | | | | | | 6.6 | 0.06 | 369.0 | 43.2 | 5.26 | | | | 73.0 | 593.0 | 6.7 | | | |
| YF556 | 8.3 | 8.40 | 288.0 | | 0.10 | | 6.1 | 0.06 | 375.0 | 45.0 | 5.00 | 0.5[2] | 30.0 | | 70.7 | 558.0 | 6.2 | 9.00 | 1.4[2] | |
| YF186 | | 7.29 | | | | | | | 449.0 | | | | | | | 751.0 | | | | 2300 |
| YF498 | 6.0 | | | | | | 7.3 | 0.05 | 452.0 | 60.6 | 6.55 | | | | 27.8 | 782.0 | 6.8 | | | |
| YF557 | 7.6 | 7.96 | 510.0 | | 0.05 | | 7.0 | 0.07 | 470.0 | 61.0 | 6.30 | 0.5[2] | 30.0 | | 24.6 | 780.0 | 7.3 | 11.40 | 0.7[2] | |
| YF375 | | | 431.0 | 0.70 | 1.00 | | | | 306.0 | 75.0 | 4.60 | | | | 71.0 | 532.0 | | | | |
| YF428 | | | | | | | 5.0 | 0.83 | 257.0 | 53.5 | 3.31 | 0.3 | | | 158.0 | 376.0 | 0.5 | 4.10 | | |
| YF383 | | | 268.0 | | 4.50 | | | | 42.0 | 35.0 | 0.12 | | | | 443.0 | 12.0 | | | | |
| YF360 | | 7.89 | 600.0[2] | 0.17 | 0.09 | 0.02 | 2.7 | 0.02 | 409.0 | 00.0 | 6.80 | 0.2 | 34.0 | | 40.0 | 706.0 | 5.9 | 10.00 | | 2420 |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| NORRIS GEYSER BASIN | | | | | | | | |
| YF380 | 18 OCT 67 | | UNNAMED | SPRING | BASE OF PORCLAN TERRACE | 44 43.344 | 110 41.958 | |
| YF507 | 26 SEP 71 | | UNNAMED | SPRING | BASE OF PORCLAN TERRACE | 44 43.344 | 110 41.958 | 93.2 |
| YF554 | 11 SEP 72 | | UNNAMED | SPRING | BASE OF PORCLAN TERRACE | 44 43.344 | 110 41.958 | 92.0 |
| YF382 | 22 OCT 67 | | UNNAMED | SPRING | SPG 40' NW OF FENNER HOLE | 44 43.622 | 110 42.210 | 63.0 |
| YF397 | 22 OCT 67 | | UNNAMED | SPRING | AT FENNER DRILL PLUG | 44 43.277 | 110 41.948 | 92.0 |
| YF503 | JUN 71 | | UNNAMED | GEYSER | NR BEND IN ROAD | 44 43.242 | 110 42.313 | 92.0 |
| YF504 | JUN 71 | | UNNAMED | SPRING | NR BATHTUB N17W | 44 43.205 | 110 42.171 | 92.0 |
| YF512 | 27 SEP 71 | | UNNAMED | SPRING | | 44 43.270 | 110 42.842 | 54.0 |
| YF513 | 27 SEP 71 | | UNNAMED | SPRING | | 44 43.264 | 110 42.854 | 54.0 |
| YF514 | 27 SEP 71 | | UNNAMED | SPRING | | 44 43.774 | 110 42.304 | 50.0 |
| YF515 | 27 SEP 71 | | UNNAMED | SPRING | | 44 43.744 | 110 42.343 | 93.0 |
| YF516 | 27 SEP 71 | | UNNAMED | SPRING | | 44 43.331 | 110 41.765 | 83.0 |
| YF517 | 27 SEP 71 | | UNNAMED | SPRING | | 44 43.321 | 110 41.765 | |
| YF365 | 19 JUL 67 | | UNNAMED | SPRING | | 44 43.622 | 110 42.210 | 20.0 |
| FRYING PAN HOT SPRINGS AREA | | | | | | | | |
| J7312 | 25 SEP 73 | | UNNAMED | SPRING | 200YD N OF FRYING PAN | 44 45.007 | 110 46.410 | 61.5 |
| MAMMOTH HOT SPRINGS | | | | | | | | |
| YF570 | 13 SEP 72 | | ELEPHANT BACK | SPRING | WEST OF RD AT ELEPHANT BACK | 44 57.743 | 110 42.780 | 65.0 |
| J7303 | 21 SEP 73 | | ELEPHANT BACK | SPRING | ON SW SIDE OF ROAD IN FLOWING WATER | 44 57.743 | 110 42.780 | 65.0 |
| YF567 | 13 SEP 72 | | NEW BLUE | SPRING | NR OLD TERRACE BOARDWALK | 44 58.138 | 110 42.362 | 70.0 |
| J7301 | 21 SEP 73 | | NEW BLUE | SPRING | NR OLD BOARDWALK | 44 58.138 | 110 42.362 | 78.0 |
| YF569 | 13 SEP 72 | | NEW HIGHLAND | SPRING | AT TOP, IN NEW ACTIVITY AREA | 44 58.046 | 110 42.647 | 75.0 |
| J7302 | 21 SEP 73 | | NEW HIGHLAND | SPRING | IN AREA OF ACTIVITY AT TOP | 44 58.046 | 110 42.647 | 73.5 |
| YF568 | 13 SEP 72 | | SQUIRREL | SPRING | SMALL SPG IN SQUIRREL GROUP | 44 57.812 | 110 42.881 | 75.0 |
| PELICAN VALLEY HOT SPRINGS | | | | | | | | |
| YF432 | 16 JUN 69 | | RAVEN CR | SPRING | AT BRGE ON PELICAN SPG CABIN TRAIL | 44 36.086 | 110 12.608 | 6.0 |
| YF433 | 16 JUN 69 | | UNNAMED | SPRING | AREA OF BIG POOL WITH GAS BUBBLES | 44 35.991 | 110 12.177 | 35.0 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NORRIS GEYSER BASIN | | | | | | | | | | | | | | | | | | | | |
| YF380 | | | 593.0 | | 0.20 | | | | 400.0 | 96.0 | 6.80 | | | | 24.0 | 703.0 | | | | |
| YF507 | | 8.40 | 740.0 | 0.09 | 0.05 | 0.02 | 2.2 | 0.02 | 400.0 | 04.0 | 6.80 | 0.5 | 48.0 | | 34.0 | 713.0 | 8.0 | 11.00 | | 2450 |
| YF554 | 8.0 | 8.10 | 678.0 | 0.06 | 0.05[1] | | 2.7 | 0.05 | 420.0 | 91.0 | 7.00 | 2.0[2] | 52.0 | | 25.0 | 709.0 | 6.6 | 10.40 | 1.9[2] | |
| YF382 | | | 208.0 | 0.10 | 4.70 | | | | 63.0 | 22.0 | 0.70 | | | | 337.0 | 88.0 | | | | |
| YF397 | 5.0 | 4.60 | 391.0 | | | | 4.9 | 0.14 | 440.0 | 42.5 | 7.90 | | 1.0 | | 35.0 | 720.0 | 6.0 | | | |
| YF503 | | | | | | | 3.8 | 0.02 | 425.0 | 34.4 | 4.82 | | | | 30.0 | 703.0 | | | | |
| YF504 | 6.0 | | | | | | 1.6 | 0.14 | 327.0 | 34.8 | 4.21 | | | | 34.0 | 544.0 | | | | |
| YF512 | | 3.30 | 310.0 | | | | 3.5 | 0,14 | 290.0 | 37.0 | 3.70 | 0.7 | | | 92.0 | 468.0 | 4.2 | 7.30 | | 1900 |
| YF513 | | 3.29 | | | | | 3.9 | 0.13 | 290.0 | 37.0 | 3.90 | 0.7 | | | 94.0 | 465.0 | 4.2 | 7.00 | | 1900 |
| YF514 | | 2.75 | 280.0 | | | | 4.5 | 0.15 | 250.0 | 57.0 | 3.50 | 1.4 | | | 197.0 | 427.0 | 3.4 | 6.60 | | 2250 |
| YF515 | | 3.20 | | | | | 4.3 | 0.32 | 305.0 | 57.0 | 3.80 | 1.9 | | | 123.0 | 505.0 | 4.8 | 7.80 | | 2100 |
| YF516 | | 8.01 | 340.0 | 0.12 | 0.05 | 0.02 | 1.8 | 0.01[1] | 290.0 | 37.0 | 3.50 | 2.1 | 68.0 | | 39.0 | 444.0 | 5.3 | 9.10 | | 1680 |
| YF517 | | 2.40 | 340.0 | | | | 1.1 | 0.05 | 220.0 | 37.0 | 2.30 | 3.3 | | | 328.0 | 326.0 | 3.0 | 6.40 | | 2800 |
| YF365 | | | | | | | | | 111.0 | 45.6 | 0.70 | | | | | 75.0 | 4.5 | 2.00 | | |
| FRYING PAN HOT SPRINGS AREA | | | | | | | | | | | | | | | | | | | | |
| J7312 | 2.8 | 2.12 | 254.0 | | | | 6.8 | 2.40 | 71.0 | 29.0 | 0.20 | 2.0 | | | 335.0 | 39.0 | 1.0 | 0.80 | 1.2[2] | |
| MAMMOTH HOT SPRINGS | | | | | | | | | | | | | | | | | | | | |
| YF570 | 7.5 | 7.98 | | | 0.20 | 1.00 | 416.0 | 80.00 | 125.0 | 57.0 | 1.20 | 0.4[2] | 875.0 | | 671.0 | 154.0 | 2.8 | 3.50 | 0.9[2] | |
| J7303 | 7.2 | 7.29 | 59.0 | | | 0.20 | 378.0 | 83.00 | 125.0 | 53.0 | 1.50 | | 880.0 | | 681.0 | 157.0 | 2.6 | 3.60 | 0.5[2] | |
| YF567 | | 7.30 | | | 0.05 | | 394.0 | 47.00 | 130.0 | 57.0 | 1.70 | | 900.0 | | 592.0 | 162.0 | 0.6 | 3.80 | 3.1[2] | |
| J7301 | | | 57.8 | | | 0.05 | 330.0 | 83.00 | 140.0 | 56.0 | 1.60 | | 800.0 | | 601.0 | 168.0 | 2.3 | 3.90 | 0.5[2] | |
| YF569 | 7.4 | 7.78 | | | 0.05 | | 344.0 | 46.00 | 135.0 | 58.0 | 1.30 | 0.6[2] | 795.0 | | 590.0 | 171.0 | 2.5 | 3.90 | 3.2[2] | |
| J7302 | | 7.27 | 53.8 | | | 0.05 | 345.0 | 76.00 | 130.0 | 55.0 | 1.60 | | 864.0 | | 568.0 | 166.0 | 2.5 | 3.70 | 5.8[2] | |
| YF568 | 6.9 | 7.70 | | | 0.08 | | 360.0 | 45.00 | 115.0 | 43.0 | 1.20 | 0.6[2] | 775.0 | | 614.0 | 143.0 | 3.1 | 3.30 | 2.7[2] | |
| PELICAN VALLEY HOT SPRINGS | | | | | | | | | | | | | | | | | | | | |
| YF432 | | 9.13 | | | | | 13.3 | 4.77 | 6.7 | 2.0 | | | 50.4 | | 10.0 | 0.1 | 0.1 | | | |
| YF433 | 6.0 | 8.50 | 170.0 | | | | | | 140.0 | 29.6 | 0.38 | | 372.0 | | 72.0 | 89.0 | | 4.70 | | |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| PELICAN VALLEY HOT SPRINGS | | | | | | | | |
| YF434 | 16 JUN 69 | | UNNAMED | SPRING | AT N SIDE OF VALLEY E OF SERV RD | 44 35.818 | 110 13.158 | 69.0 |
| YF435 | 17 JUN 69 | | UPPER PELICAN | SPRING | W SIDE OF CR NR OLD WHITE GEY SINTER | 44 37.913 | 110 13.804 | 59.0 |
| YF436 | 17 JUN 69 | | UNNAMED | SPRING | N OF MAIN PELICAN VALLEY | 44 36.741 | 110 13.433 | |
| YF437 | 17 JUN 69 | | UNNAMED | SPRING | 1ST STM W OF ASTRIGENT NR WOODS | 44 35.120 | 110 16.158 | |
| VERIMILION HOT SPRINGS AREA | | | | | | | | |
| F437B | 18 JUN 69 | | UNNAMED | SPRING | ACID SPG FROM TUFF | 44 35.051 | 110 18.899 | 51.5 |
| YF438 | 18 JUN 69 | | UNNAMED | SPRING | BIGGEST FLOWING SPG | 44 35.034 | 110 18.779 | 50.0 |
| YF439 | 18 JUN 69 | | ASTRIGENT CR | SPRING | FEW HUNDRED YDS BEFORE ENTER PELICAN | 44 35.681 | 110 14.821 | |
| YF440 | 19 JUN 69 | | UNNAMED | SPRING | PONUNTRA SPG GRP 3' HIGH MOUND IN NW ARE | 44 40.362 | 110 17.930 | 67.0 |
| RAINBOW HOT SPRINGS | | | | | | | | |
| YF441 | 21 JUN 69 | | UNNAMED | SPRING | SMALL SEEP IN BOG, OIL SLICK ON SURFACE | 44 46.136 | 110 16.223 | 40.0 |
| YF442 | 21 JUN 69 | | UNNAMED | SPRING | BIGGEST FLOWING SPG 60'E MAIN SIO2 DOME | 44 46.093 | 110 16.127 | 84.0 |
| YF443 | 21 JUN 69 | | UNNAMED | SPRING | WESTERN MOST STEEP MOUND N SIDE RIVER | 44 46.110 | 110 16.163 | 92.0 |
| YF444 | 21 JUN 69 | | UNNAMED | SPRING | S SIDE RIVER IN MIDDLE OF ACTIVE AREA | 44 45.998 | 110 15.935 | 80.0 |
| HOT SPRINGS BASIN | | | | | | | | |
| YF445 | 22 JUN 69 | | UNNAMED | SPRING | 150' N OF BUF XING, W SIDE ALTERED AREA | 44 44.591 | 110 14.556 | 92.0 |
| YF446 | 22 JUN 69 | | UNNAMED | SPRING | 1/2 WAY ALONG ALTERED VALLEY S ABUNDANT | 44 44.677 | 110 15.360 | 76.0 |
| YF447 | 22 JUN 69 | | UNNAMED | SPRING | SMALL STM COMING FROM 2" HOLE 1/2 NS VAL | 44 44.824 | 110 15.396 | 74.0 |
| YF448 | 22 JUN 69 | | UNNAMED | SPRING | PERP SPOUTER N END SULFUR VALLEY | 44 44.910 | 110 15.408 | 89.0 |
| YF449 | 23 JUN 69 | | UNNAMED | SPRING | STM FLOW S INTO BIG STM FLO W INTO BROAD | 44 41.873 | 110 15.504 | |
| JOSEPH COATS HOT SPRINGS | | | | | | | | |
| YF450 | 26 JUN 69 | | UNNAMED | SPRING | N SIDE DEPOSIT SULFUR & SILICA VIGOR. BO | 44 44.350 | 110 19.796 | 85.0 |
| YF451 | 26 JUN 69 | | UNNAMED | SPRING | SMALL STM FROM ALTERED SED 20' FROM FUMA | 44 44.306 | 110 19.616 | 86.0 |
| YF452 | 26 JUN 69 | | UNNAMED | SPRING | SMALL SPOUTER UP CR S BROAD CR | 44 44.237 | 110 19.484 | 93.0 |
| WASHBURN HOT SPRINGS | | | | | | | | |
| YF429 | 22 JUN 68 | LOWER | UNNAMED | SPRING | 50' N OF INKPOT LARGE DISC. | 44 45.886 | 110 25.768 | 86.0 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PELICAN VALLEY HOT SPRINGS | | | | | | | | | | | | | | | | | | | | |
| YF434 | | 8.56 | 284.0 | | | | | | 295.0 | 52.0 | 1.02 | | 780.0 | | 15.0 | 189.0 | | 6.70 | | |
| YF435 | 6.5 | 8.22 | 137.0 | | | | | | 73.8 | 20.8 | 0.11 | | 319.0 | | 16.0 | 25.0 | | 0.78 | | |
| YF436 | | 8.28 | | | | | 19.7 | 4.88 | 12.4 | 3.8 | | | 51.0 | | 26.0 | 9.5 | 0.1 | | | |
| YF437 | | 4.35 | | | | | 6.0 | 0.99 | 14.3 | 5.8 | | | | | 30.0 | 0.2 | 0.1 | | | |
| VERIMILION HOT SPRINGS AREA | | | | | | | | | | | | | | | | | | | | |
| F437B | 3.0 | 2.72 | 172.0 | | | | 6.0 | 1.04 | 15.4 | 13.4 | 0.25 | 2.3 | | | 381.0 | 17.0 | 0.2 | 1.54 | | |
| YF438 | 3.0 | 2.66 | 167.0 | | | | 5.7 | 1.14 | 15.9 | 13.6 | 0.25 | 2.0 | | | 357.0 | 14.0 | 0.2 | 1.72 | | |
| YF439 | 4.0 | 3.18 | | | | | 38.2 | 8.05 | 56.2 | 15.2 | | | | | 168.0 | 52.7 | 0.4 | | | |
| YF440 | 7.0 | 8.61 | 247.0 | | | | 33.8 | 9.63 | 430.0 | 38.5 | 0.35 | 0.2 | 774.0 | | 43.5 | 244.0 | 4.5 | 8.25 | | |
| RAINBOW HOT SPRINGS | | | | | | | | | | | | | | | | | | | | |
| YF441 | 6.0 | 8.68 | 150.0 | | | | 59.2 | 21.70 | 153.0 | 31.7 | 0.31 | 0.1 | 326.0 | | 2.0 | 166.0 | 1.7 | 14.60 | | |
| YF442 | 7.5 | 8.34 | 362.0 | | | | | | 321.0 | 57.2 | 0.53 | | 493.0 | | 123.0 | 247.0 | | 25.10 | | |
| YF443 | 7.5 | 8.38 | 356.0 | | | | 64.5 | 16.20 | 354.0 | 58.8 | 0.55 | 11.0 | 550.0 | | 66.0 | 304.0 | 2.3 | 31.50 | | |
| YF444 | 3.0 | 2.47 | 318.0 | | | | 18.2 | 1.73 | 107.0 | 72.8 | 0.70 | 26.2 | | | 562.0 | 51.0 | 0.9 | 6.08 | | |
| HOT SPRINGS BASIN | | | | | | | | | | | | | | | | | | | | |
| YF445 | 3.0 | 2.64 | 333.0 | | | | 2.3 | 0.41 | 11.5 | 14.5 | 0.01 | 37.4 | | | 253.0 | 0.1 | 0.2 | 0.05 | | |
| YF446 | 1.5 | 1.78 | 143.0 | | | | 1.6 | 0.24 | 3.3 | 11.0 | 0.01 | 66.6 | | | /850.0 | 0.1 | 0.0 | 3.00 | | |
| YF447 | 1.0 | 1.83 | 178.0 | | | | 1.5 | 0.25 | 3.3 | 9.4 | 0.02 | 62.8 | | | /760.0 | 0.1 | 0.0 | 3.60 | | |
| YF448 | 3.0 | 2.66 | 317.0 | | | | 37.1 | 3.75 | 187.0 | 16.0 | 0.04 | 171.0 | | | /530.0 | 0.1 | 0.8 | 5.05 | | |
| YF449 | | 7.82 | | | | | 5.6 | 0.45 | 3.0 | 1.1 | | | 7.5 | | 3.0 | 0.2 | 0.1 | | | |
| JOSEPH COATS HOT SPRINGS | | | | | | | | | | | | | | | | | | | | |
| YF450 | 2.0 | 2.22 | 65.0 | | | | 1.6 | 0.05 | 2.1 | 2.6 | 0.03 | 199.0 | | | /410.0 | 0.1 | 0.0 | 0.60 | | |
| YF451 | 1.5 | 1.82 | 333.0 | | | | 4.1 | 0.39 | 7.0 | 17.1 | 0.01 | 57.3 | | | /830.0 | 0.1 | 0.0 | 0.07 | | |
| YF452 | 8.0 | 8.38 | 238.0 | | | | 3.4 | 0.01 | 109.0 | 19.2 | 0.18 | 22.4 | 335.0 | | 24.0 | 5.4 | 3.7 | 0.36 | | |
| WASHBURN HOT SPRINGS | | | | | | | | | | | | | | | | | | | | |
| YF429 | | | | | | | 17.2 | 9.30 | 27.1 | 13.7 | 0.01 | 658.0 | 8.2 | | /950.0 | 2.1 | 0.5 | 7.84 | | |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| WASHBURN HOT SPRINGS | | | | | | | | |
| YF430 | 22 JUN 68 | | UNNAMED | SPRING | | 44 46.006 | 110 25.756 | |
| YF467 | 14 SEP 69 | | UNNAMED | SPRING | MIDDLE ACTIVE AREA SML CAVERN ABV H2O BL | 44 45.972 | 110 25.732 | |
| J7304 | 22 SEP 73 | UPPER | UNNAMED | SPRING | NR BASE 100' FROM TREES, CLEAR J20 | 44 45.972 | 110 25.732 | 91.0 |
| J7305 | 22 SEP 73 | LOWER | UNNAMED | SPRING | 40' W OF INKPOT, 60' W OF TRAIL NO DISC | 44 45.860 | 110 25.804 | 89.0 |
| YELLOWSTONE CANYON HOT SPRINGS | | | | | | | | |
| YF427 | 29 SEP 68 | | 7 MI HOLE | SPRING | | 44 45.118 | 110 24.437 | 92.0 |
| YF468 | 14 SEP 69 | | 7 MI HOLE | SPRING | | 44 45.118 | 110 24.437 | 65.0 |
| YF469 | 14 SEP 69 | | UNNAMED | SPRING | ON TRAIL ALONG N85W TREND DEPOSITING SIO | 44 45.074 | 110 25.060 | 92.0 |
| YF470 | 14 SEP 69 | | UNNAMED | SPRING | 1ST SPG ON TRAIL TO 7 MI HOLE | 44 45.143 | 110 25.324 | 83.0 |
| SULFUR CAULDRON HOT SPRINGS | | | | | | | | |
| YM384 | 26 MAY 68 | | UNNAMED | SPRING | E SIDE R ACROSS FROM MUD VOLCANO | 44 37.536 | 110 25.751 | 23.0 |
| YM385 | 26 MAY 68 | | UNNAMED | SPRING | S OF 384 | 44 37.497 | 110 25.608 | 88.0 |
| YM386 | 26 MAY 68 | | UNNAMED | SPRING | SE OF 385 | 44 37.447 | 110 25.668 | 49.0 |
| YM388 | 26 MAY 68 | | UNNAMED | SPRING | SSW OF 386 | 44 37.500 | 110 25.747 | 58.0 |
| YM389 | 26 MAY 68 | | UNNAMED | SPRING | NE OF 388 | 44 37.503 | 110 25.770 | 22.0 |
| FIREHOLE RIVER SAMPLES | | | | | | | | |
| YF256 | JUN 66 | | | | STM CROSSING LONE STAR ROAD | 44 26.623 | 110 48.220 | 6.5 |
| FR380 | AUG 67 | | | | STM CROSSING LONE STAR ROAD | 44 26.623 | 110 48.220 | |
| YF199 | 27 MAY 66 | | FIREHOLE | RIVER | ABV UPPER BASIN | 44 26.316 | 110 48.197 | 13.0 |
| YT15 | 28 SEP 66 | | FIREHOLE | RIVER | ABV UPPER BASIN | 44 26.316 | 110 48.197 | 8.3 |
| | OCT 66 | | FIREHOLE | RIVER | ABV UPPER BASIN | 44 26.316 | 110 48.197 | |
| YF372 | 5 MAY 67 | | FIREHOLE | RIVER | ABV UPPER BASIN | 44 26.316 | 110 48.197 | |
| YF192 | 27 MAY 66 | | FIREHOLE | RIVER | ABV MIDWAY BASIN | 44 30.266 | 110 50.054 | 11.0 |
| YF293 | 24 JUN 66 | | FIREHOLE | RIVER | ABV MIDWAY BASIN | 44 30.266 | 110 50.064 | 15.0 |
| YT16 | 28 SEP 66 | | FIREHOLE | RIVER | ABV MIDWAY BASIN | 44 30.266 | 110 50.064 | |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WASHBURN HOT SPRINGS** | | | | | | | | | | | | | | | | | | | | |
| YF430 | | | | | | | | | 28.6 | 15.5 | | | | | 2400.0 | 0.6 | | | | |
| YF467 | 5.0 | 4.48 | 243.0 | 3.30 | 6.40 | 0.10 | 13.6 | 4.33 | 14.8 | 7.3 | 0.02 | 424.0 | | | 1260.0 | 0.1 | 0.1 | 6.40 | | |
| J7304 | 8.1 | 8.00 | 247.0 | 0.20 | 0.10 | | 2.0 | 4.10 | 9.7 | 6.5 | 0.10[1] | 270.0 | 107.0 | | 900.0 | 7.0 | 0.1 | 6.60 | 4.5 | 2290 |
| J7305 | 7.9 | 7.69 | 237.0 | 0.38 | 0.20 | | 2.5 | 0.50 | 30.0 | 9.0 | 0.10[1] | 210.0 | 140.0 | | 712.0 | 2.2 | 1.8 | 0.50 | 7.8 | 1960 |
| **YELLOWSTONE CANYON HOT SPRINGS** | | | | | | | | | | | | | | | | | | | | |
| YF427 | | | 523.0 | | | | 0.5 | 0.01 | 353.0 | 53.8 | 3.36 | 1.3 | 229.0 | | 124.0 | 406.0 | 12.8 | 13.00 | | |
| YF468 | 3.5 | 2.48 | 209.0 | 7.80 | 5.80 | 0.20 | 20.7 | 6.70 | 83.6 | 41.3 | 0.65 | 12.4 | | | 524.0 | 46.0 | 1.4 | 3.39 | | |
| YF469 | 7.0 | 8.88 | 508.0 | 0.43 | 0.04 | 0.02 | 0.6 | 0.01 | 347.0 | 52.4 | 3.32 | 1.2 | 110.0 | 45.0 | 128.0 | 376.0 | 12.4 | 16.80 | | |
| YF470 | 6.5 | 8.45 | 472.0 | 0.20 | 0.01 | 0.20 | 0.4 | 0.02 | 309.0 | 45.0 | 3.04 | 2.5 | 170.0 | 12.0 | 266.0 | 313.0 | 9.5 | 13.70 | | |
| **SULFUR CAULDRON HOT SPRINGS** | | | | | | | | | | | | | | | | | | | | |
| YM384 | 1.5 | | | | | | | | 4.3 | 2.8 | 0.01 | | | | 1200.0 | 2.5 | | | | 5500 |
| YM385 | 2.0 | | | | | | | | 25.4 | 33.8 | 0.01 | | | | 2700.0 | 2.1 | | | | 5500 |
| YM386 | 6.5 | 8.08 | | | | | 77.5 | 21.90 | 123.0 | 36.6 | 0.16 | | 103.0 | | 452.0 | 4.0 | | | | 700 |
| YM388 | 7.0 | | | | | | 78.7 | 16.40 | 74.3 | 47.5 | 0.20 | 0.2 | 344.0 | | 65.0 | 13.0 | 2.0 | 0.20 | | 720 |
| YM389 | 4.5 | | | | | | 6.0 | 3.16 | 12.0 | 3.5 | 0.05 | | 12.0 | | 36.0 | 6.0 | | | | 270 |
| **FIREHOLE RIVER SAMPLES** | | | | | | | | | | | | | | | | | | | | |
| YF256 | | | 20.4 | | | | 4.0 | 0.53 | 2.3 | 1.7 | | | 11.0 | | 2.0 | 1.5 | | | | 5 |
| FR380 | | | | | | | 2.8 | 0.69 | 4.5 | 1.9 | | | 17.0 | | 0.5 | 1.6 | | | | |
| YF199 | | | 34.9 | | | | | | | | | | 29.3 | | | 4.5 | | | | 6 |
| YT15 | | | 44.6 | | | | 4.0 | 0.39 | 13.7 | 3.5 | | | 21.0 | | 2.0 | 11.2[2] | | | | |
| | | | 49.3 | | | | | | | | | | 20.1 | | | 12.4 | | | | |
| YF372 | | | | | | | 2.9 | 0.49 | 9.5 | 2.5 | | | 15.0 | | 5.0 | 9.9 | | | | |
| YF192 | | | 45.6 | | | | | | 16.2 | | | | 44.5 | | | 16.2 | | | | 12 |
| YF293 | | | 55.3 | | | | 3.4 | 0.43 | 38.5 | 4.3 | | | 56.0 | | 4.0 | 25.0[2] | | | | |
| YT16 | | | 76.8 | | | | 4.0 | 0.44 | 54.0 | 10.2 | | | 79.0 | | 5.0 | 38.0[2] | | | | |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| FIREHOLE RIVER SAMPLES | | | | | | | | |
| W1 | 26 OCT 66 | | FIREHOLE | RIVER | ABV MIDWAY BASIN | 44 30.266 | 110 50.064 | |
| YF373 | 14 MAY 67 | | FIREHOLE | RIVER | ABV MIDWAY BASIN | 44 30.266 | 110 50.064 | 14.0 |
| YF381 | 23 JUL 67 | | FIREHOLE | RIVER | ABV MIDWAY BASIN | 44 30.266 | 110 50.064 | |
| YF475 | 28 JAN 70 | | FIREHOLE | RIVER | ABV MIDWAY BASIN | 44 30.266 | 110 50.064 | |
| YF193 | 27 MAY 66 | | FIREHOLE | RIVER | BLW LOWER BASIN | 44 34.940 | 110 49.832 | 16.0 |
| YF258 | 11 JUN 66 | | FIREHOLE | RIVER | BLW LOWER BASIN | 44 34.940 | 110 49.832 | 15.0 |
| YF259 | 11 JUN 66 | | FIREHOLE | RIVER | BLW LOWER BASIN ABV CASCADES | 44 34.940 | 110 49.832 | 14.0 |
| YF294 | 24 JUN 66 | | FIREHOLE | RIVER | BLW LOWER BASIN | 44 34.940 | 110 49.832 | 17.0 |
| YT17 | 27 SEP 66 | | FIREHOLE | RIVER | BLW LOWER BASIN | 44 34.940 | 110 49.832 | 18.0 |
| W2 | 26 OCT 66 | | FIREHOLE | RIVER | BLW LOWER BASIN | 44 34.940 | 110 49.832 | |
| YF374 | 14 MAY 67 | | FIREHOLE | RIVER | BLW LOWER BASIN | 44 34.940 | 110 49.832 | |
| YF382 | 23 JUL 67 | | FIREHOLE | RIVER | BLW LOWER BASIN | 44 34.940 | 110 49.832 | |
| YF394 | 6 MAY 68 | | FIREHOLE | RIVER | BLW LOWER BASIN | 44 34.940 | 110 49.832 | |
| YF197 | 27 MAY 66 | | FIREHOLE | RIVER | BLW LOWER BASIN BLW FALLS | 44 37.906 | 110 51.820 | 18.5 |
| YF260 | 11 JUN 66 | | FIREHOLE | RIVER | BLW LOWER BASIN BLW FALLS | 44 37.906 | 110 51.820 | 14.0 |
| YF295 | 24 JUN 66 | | FIREHOLE | RIVER | BLW LOWER BASIN BLW FALLS | 44 37.906 | 110 51.820 | 17.5 |
| T6618 | 28 SEP 66 | | FIREHOLE | RIVER | BLW LOWER BASIN BLW FALLS | 44 37.906 | 110 51.820 | 17.7 |
| GIBBON RIVER SAMPLES | | | | | | | | |
| YF176 | 24 MAY 66 | | GIBBON | RIVER | BLW BERYL SPRING | 44 3.973 | 110 4.518 | 11.0 |
| YF194 | 27 MAY 66 | | GIBBON | RIVER | BLW BERYL SPRING | 44 3.973 | 110 4.518 | 16.0 |
| YF296 | 24 JUN 66 | | GIBBON | RIVER | BLW BERYL SPRING | 44 3.973 | 110 4.518 | 14.0 |
| T6619 | 27 SEP 66 | | GIBBON | RIVER | BLW BERYL SPRING | 44 3.973 | 110 4.518 | 15.5 |
| W4 | 26 OCT 66 | | GIBBON | RIVER | BLW BERYL SPRING | 44 3.973 | 110 4.518 | |
| YF376 | 14 MAY 67 | | GIBBON | RIVER | BLW BERYL SPRING | 44 3.973 | 110 4.518 | 12.0 |
| YF384 | 24 MAY 67 | | GIBBON | RIVER | BLW BERYL SPRING | 44 3.973 | 110 4.518 | 21.0 |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIREHOLE RIVER SAMPLES | | | | | | | | | | | | | | | | | | | | |
| W1 | | 8.39 | 80.9 | | | | 4.4 | 0.44 | 58.1 | 5.8 | | | 80.0 | 3.0 | 6.0 | 38.0 | | | | |
| YF373 | | 8.01 | | | | | 4.8 | 0.48 | 60.0 | 5.6 | | | 87.0 | | 8.0 | 41.0 | | | | |
| YF381 | | 7.99 | | | | | 4.1 | 0.43 | 47.3 | 4.5 | | | 72.0 | | 4.0 | 37.0 | | | | 26 |
| YF475 | | | | | | | 9.8 | 0.37 | 60.3 | 5.6 | | | 85.0 | | | 40.0 | | | | |
| YF193 | | | 57.3 | | | | | | 34.0 | | | | 66.0 | | | 33.0 | | | | 29 |
| YF258 | | | | | | | | | 52.0 | | | | | | | 36.0 | | | | 30 |
| YF259 | | 7.91 | | | | | 0.8 | 0.44 | 53.0 | 4.8 | | | 74.0 | | 7.0 | 39.0 | | | | 29 |
| YF294 | | | 81.1 | | | | 5.3 | 0.59 | 75.0 | 6.2 | | | 94.0 | | 16.0 | 52.0 [2] | | | | |
| YT17 | | | 105.0 | | | | 6.0 | 0.58 | 90.9 | 7.9 | | | 110.0 | | 15.0 | 66.0 [2] | | | | |
| W2 | | | 107.0 | | | | 5.3 | 0.48 | 99.0 | 7.9 | | | 125.0 | | 14.0 | 68.0 | | | | |
| YF374 | | 8.22 | | | | | 5.4 | 0.57 | 98.2 | 7.8 | | | 133.0 | 1.0 | 18.0 | 76.0 | | | | |
| YF382 | | 8.12 | | | | | 5.0 | 0.46 | 82.6 | 6.9 | | | 115.0 | | 12.0 | 57.0 | | | | 46 |
| YF394 | | 8.00 | | | | | 5.6 | 0.68 | 63.0 | 6.3 | | | 86.0 | | 18.2 | 49.0 | | | | |
| YF197 | | | 56.8 | | | | | | | | | | | | | 36.0 | | | | 29 |
| YF260 | | | | | | | | | 52.0 | | | | | | | 36.0 | | | | 29 |
| YF295 | | | 78.4 | | | | | | | | | | | | | 52.0 [2] | | | | |
| T6618 | | | 100.0 | | | | | | | | | | | | | 69.0 [2] | | | | |
| GIBBON RIVER SAMPLES | | | | | | | | | | | | | | | | | | | | |
| YF176 | | 7.83 | | | | | | | 22.8 | 6.5 | | | | | | 24.0 | | | | |
| YF194 | | | 43.7 | | | | | | | | | | | | | 24.0 | | | | 21 |
| YF296 | | 7.87 | 61.2 | | | | 7.4 | 1.45 | 50.5 | 8.0 | | | 61.0 | | 32.0 | 43.0 [2] | | | | |
| T6619 | | 8.03 | 79.7 | | | | 7.8 | 1.48 | 69.6 | 12.0 | | | 73.0 | | 38.0 | 63.0 | | | | |
| W4 | | 8.03 | 88.2 | | | | 8.1 | 1.52 | 76.8 | 13.9 | | | 78.0 | | 40.0 | 67.0 | | | | |
| YF376 | | 7.88 | | | | | 7.8 | 1.48 | 66.4 | 11.2 | | | 61.0 | | 56.0 | 62.0 | | | | |
| YF384 | | 7.87 | | | | | 7.1 | 1.38 | 36.1 | 6.1 | | | 51.3 | | 23.0 | 33.0 | | | | 26 |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| GIBBON RIVER SAMPLES | | | | | | | | |
| YF395 | 6 MAY 68 | | GIBBON | RIVER | BLW BERYL SPRING | 44 3.973 | 110 4.518 | |
| YF191 | 27 MAY 66 | | GIBBON | RIVER | AT ELK PARK | 44 42.493 | 110 44.645 | 18.0 |
| YF297 | 24 JUN 66 | | GIBBON | RIVER | AT ELK PARK | 44 42.493 | 110 44.645 | 15.0 |
| YT20 | 28 SEP 66 | | GIBBON | RIVER | AT ELK PARK | 44 42.493 | 110 44.645 | |
| W5 | 26 OCT 66 | | GIBBON | RIVER | AT ELK PARK | 44 42.493 | 110 44.645 | |
| YF377 | 14 MAY 67 | | GIBBON | RIVER | AT ELK PARK | 44 42.493 | 110 44.645 | |
| YF385 | 24 JUL 67 | | GIBBON | RIVER | AT ELK PARK | 44 42.493 | 110 44.645 | 20.5 |
| YF195 | 27 MAY 66 | | GIBBON | RIVER | ABV NORRIS | 44 44.393 | 110 41.820 | 13.0 |
| YF298 | 24 JUN 66 | | GIBBON | RIVER | ABV NORRIS | 44 44.393 | 110 41.820 | 14.5 |
| YT21 | 24 SEP 66 | | GIBBON | RIVER | ABV NORRIS | 44 44.393 | 110 41.820 | 14.3 |
| W | 26 OCT 66 | | GIBBON | RIVER | ABV NORRIS | 44 44.393 | 110 41.820 | |
| YF378 | 14 MAY 67 | | GIBBON | RIVER | ABV NORRIS | 44 44.393 | 110 41.820 | |
| YF386 | 24 JUL 67 | | GIBBON | RIVER | ABV NORRIS | 44 44.393 | 110 41.820 | 19.0 |
| MADISON RIVER SAMPLES | | | | | | | | |
| YF196 | 27 MAY 66 | | MADISON | RIVER | AT MADISON JUNCTION | 44 38.526 | 110 52.471 | 17.0 |
| YF292 | 24 JUN 66 | | MADISON | RIVER | AT MADISON JUNCTION | 44 38.526 | 110 52.471 | 19.5 |
| YT13 | 27 SEP 66 | | MADISON | RIVER | AT MADISON JUNCTION | 44 38.526 | 110 52.471 | 17.0 |
| W3 | 26 OCT 66 | | MADISON | RIVER | AT MADISON JUNCTION | 44 38.526 | 110 52.471 | |
| YF371 | 30 APR 67 | | MADISON | RIVER | AT MADISON JUNCTION | 44 38.526 | 110 52.471 | |
| YF375 | 18 MAY 67 | | MADISON | RIVER | AT MADISON JUNCTION | 44 38.526 | 110 52.471 | |
| YF383 | 23 JUL 67 | | MADISON | RIVER | AT MADISON JUNCTION | 44 38.526 | 110 52.471 | |
| YF393 | 6 MAY 68 | | MADISON | RIVER | AT MADISON JUNCTION | 44 38.526 | 110 52.471 | |
| OBSIDIAN CREEK SAMPLES | | | | | | | | |
| YF190 | 27 MAY 66 | | OBSIDIAN | RIVER | AT OBSIDIAN CLIFF PARKING AREA | 44 49.424 | 110 43.682 | 20.0 |
| YF299 | 24 JUN 66 | | OBSIDIAN | RIVER | AT OBSIDIAN CLIFF PARKING AREA | 44 49.424 | 110 43.682 | |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GIBBON RIVER SAMPLES | | | | | | | | | | | | | | | | | | | | |
| YF395 | | 7.63 | | | | | 5.7 | 1.18 | 38.4 | 6.3 | | | 43.0 | | 32.0 | 31.0 | | | | |
| YF191 | | | 41.8 | | | | | | | | | | | | | 23.0 | | | | 18 |
| YF297 | | | 56.6 | | | | 6.3 | 1.10 | 39.5 | 8.0 | | | 33.0 | | 31.0 | 38.0 [2] | | | | |
| YT20 | | 7.64 | 76.1 | | | | 7.1 | 1.10 | 56.6 | 12.4 | | | 36.0 | | 36.0 | 64.0 [2] | | | | |
| W5 | | 7.70 | 82.4 | | | | 6.5 | 1.08 | 61.6 | 13.7 | | | 38.0 | | 44.0 | 68.0 | | | | |
| YF377 | | | | | | | | | 55.4 | 11.1 | | | | | | 61.9 | | | | |
| YF385 | | 7.60 | | | | | 5.3 | 0.89 | 27.4 | 5.9 | | | 30.0 | | 20.0 | 29.0 | | | | 20 |
| YF195 | | | 28.4 | | | | | | | | | | 28.0 | | | 2.3 | | | | 9 |
| YF298 | | | 37.4 | | | | | | | | | | 36.0 | | | 3.9 [2] | | | | |
| YT21 | | 7.95 | 44.9 | | | | 5.8 | 1.06 | 17.2 | 4.7 | | | 45.0 | | 9.0 | 5.0 [2] | | | | |
| W | | | 42.6 | | | | | | | | | | 52.0 | | | 4.8 | | | | |
| YF378 | | 7.90 | | | | | 7.2 | 1.35 | 19.8 | 4.7 | | | 50.0 | | 17.0 | 8.8 | | | | |
| YF386 | | 7.57 | | | | | 5.1 | 0.89 | 10.3 | 2.8 | | | 30.0 | | 8.0 | 4.1 | | | | 9 |
| MADISON RIVER SAMPLES | | | | | | | | | | | | | | | | | | | | |
| YF196 | | | 53.5 | | | | | | | | | | | | | 30.8 | | | | 29 |
| YF292 | | | 70.7 | | | | | | | | | | | | | 45.0 [2] | | | | |
| YT13 | | 8.26 | 91.6 | | | | 6.8 | 0.80 | 91.9 | 8.9 | | | 140.0 | 1.0 | 14.0 | 62.0 [2] | | | | |
| W3 | | 8.39 | 93.2 | | | | 6.5 | 0.76 | 94.4 | 8.8 | | | 138.0 | 3.0 | 18.0 | 62.0 | | | | |
| YF371 | | 8.39 | | | | | 6.8 | 0.80 | 103.0 | 9.3 | | | 143.0 | 3.0 | 26.0 | 76.0 | | | | |
| YF375 | | 8.01 | | | | | 4.8 | 0.68 | 61.1 | 6.6 | | | 83.0 | | 19.0 | 43.0 | | | | |
| YF383 | | 8.07 | | | | | 6.1 | 0.79 | 70.4 | 6.7 | | | 113.0 | | 12.0 | 48.8 | | | | 40 |
| YF393 | | 7.97 | | | | | 5.3 | 0.74 | 60.9 | 6.0 | | | 91.0 | | 16.0 | 38.0 | | | | |
| OBSIDIAN CREEK SAMPLES | | | | | | | | | | | | | | | | | | | | |
| YF190 | | | 39.6 | | | | | | | | | | | | | 22.0 | | | | 19 |
| YF299 | | 6.85 | 67.4 | | | | 13.4 | 2.85 | 43.9 | 12.2 | | | 8.0 | | 76.0 | 53.0 [2] | | | | |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| OBSIDIAN CREEK SAMPLES | | | | | | | | |
| YT22 | 28 SEP 66 | | OBSIDIAN | RIVER | AT OBSIDIAN CLIFF PARKING AREA | 44 49.424 | 110 43.682 | 18.0 |
| W6 | 26 OCT 66 | | OBSIDIAN | RIVER | AT OBSIDIAN CLIFF PARKING AREA | 44 49.424 | 110 43.682 | |
| HOT RIVER SAMPLES | | | | | | | | |
| YF189 | 27 MAY 66 | | HOT | RIVER | ABV GARDNER R | 44 59.112 | 110 41.309 | 50.0 |
| YF302 | 24 JUN 66 | | HOT | RIVER | ABV GARDNER R | 44 59.112 | 110 41.309 | |
| YT23 | 28 SEP 66 | | HOT | RIVER | ABV GARDNER R | 44 59.112 | 110 41.309 | |
| W7 | 26 SEP 66 | | HOT | RIVER | ABV GARDNER R | 44 59.112 | 110 41.309 | |
| GARDNER RIVER SAMPLES | | | | | | | | |
| YF188 | 27 MAY 66 | | GARDNER | RIVER | ABV HOT R. | 44 59.063 | 110 41.230 | 11.5 |
| YF303 | 24 JUN 66 | | GARDNER | RIVER | ABV HOT R. | 44 59.063 | 110 41.230 | |
| YT24 | 28 SEP 66 | | GARDNER | RIVER | ABV HOT R. | 44 59.063 | 110 41.230 | |
| W8 | 26 OCT 66 | | GARDNER | RIVER | ABV HOT R. | 44 59.063 | 110 41.230 | |
| YF389 | 24 JUL 67 | | GARDNER | RIVER | ABV HOT R. | 44 59.063 | 110 41.230 | 17.5 |
| YF301 | 24 JUN 66 | | GARDNER | RIVER | BLW HOT R | 45 0.675 | 110 41.734 | 14.5 |
| YT25 | 27 SEP 66 | | GARDNER | RIVER | BLW HOT R | 45 0.675 | 110 41.734 | 20.9 |
| W8A | 26 OCT 66 | | GARDNER | RIVER | BLW HOT R | 45 0.675 | 110 41.734 | |
| YF388 | 24 JUL 67 | | GARDNER | RIVER | BLW HOT R | 45 0.675 | 110 41.734 | 20.0 |
| YF396 | 6 MAY 68 | | GARDNER | RIVER | BLW HOT R | 45 0.675 | 110 41.734 | |
| YF477 | 28 JAN 70 | | GARDNER | RIVER | BLW HOT R | 45 0.675 | 110 41.734 | |
| YF527 | MAY 72 | | GARDNER | RIVER | BLW HOT R | 45 0.675 | 110 0.734 | |
| YF566 | 12 SEP 72 | | GARDNER | RIVER | BLW HOT RIVER | 45 0.675 | 110 41.734 | |
| YELLOWSTONE RIVER SAMPLES | | | | | | | | |
| YF519 | MAY 72 | | YELLOWSTONE | RIVER | AT YELLOWSTONE LAKE OUTLET | 44 34.043 | 110 22.896 | |
| YF559 | 12 SEP 72 | | YELLOWSTONE | RIVER | AT YELLOWSTONE LAKE OUTLET | 44 34.043 | 110 22.896 | |
| YF454 | 11 JUL 69 | | YELLOWSTONE | RIVER | AT CHITTENDEN BRDG | 45 6.716 | 110 47.537 | |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OBSIDIAN CREEK SAMPLES | | | | | | | | | | | | | | | | | | | | |
| YT22 | | 7.27 | 90.9 | | | | 18.7 | 3.80 | 73.6 | 20.0 | | | 15.0 | | 94.0 | 91.0 | | | | |
| W6 | | | 95.7 | | | | | | | | | | | | | 94.0 | | | | |
| HOT RIVER SAMPLES | | | | | | | | | | | | | | | | | | | | |
| YF189 | | | 49.0 | | | | | | | | | | | | | 133.0 | | | | |
| YF302 | | 8.13 | 44.6 | | | | 105.0 | 66.80 | 111.0 | 47.1 | | | 99.0 | | 585.0 | 133.0 [2] | | | | |
| YT23 | | 8.05 | 45.0 | | | | 106.0 | 69.00 | 110.0 | 47.0 | | | 96.0 | | 525.0 | 137.0 [2] | | | | |
| W7 | | | 42.2 | | | | | | | | | | | | | 137.0 | | | | |
| GARDNER RIVER SAMPLES | | | | | | | | | | | | | | | | | | | | |
| YF188 | | | 17.9 | | | | | | | | | | | | | 1.6 | | | | 135 |
| YF303 | | 8.02 | 14.8 | | | | 22.7 | 55.00 | 4.5 | 14.7 | | | 89.0 | | 10.0 | 3.5 [2] | | | | |
| YT24 | | 8.26 | 25.3 | | | | 31.9 | 8.40 | 11.7 | 2.8 | | | 117.0 | 1.0 | 25.0 | 5.2 [2] | | | | |
| W8 | | 7.70 | 27.5 | | | | 45.4 | 22.00 | 34.2 | 13.2 | | | 108.0 | | 156.0 | 7.0 | | | | |
| YF389 | | 7.93 | | | | | 24.3 | 6.15 | 6.0 | 1.6 | | | 90.0 | | 17.0 | 3.6 | | | | 18 |
| YF301 | | 8.18 | 15.5 | | | | 37.0 | 9.59 | 11.4 | 4.1 | | | 116.0 | | 46.0 | 10.0 [2] | | | | |
| YT25 | | 8.14 | 29.2 | | | | 48.4 | 21.20 | 31.6 | 13.2 | | | 119.0 | | 122.0 | 29.0 [2] | | | | |
| W8A | | | 30.9 | | | | | | | | | | | | | 35.0 | | | | |
| YF388 | | 8.24 | | | | | 40.0 | 10.60 | 13.2 | 4.5 | | | 121.0 | 1.0 | 58.0 | 13.0 | | | | 32 |
| YF396 | | 8.12 | | | | | 45.0 | 13.20 | 14.6 | 4.8 | | | 140.0 | | 67.0 | 14.0 | | | | |
| YF477 | | | | | | | 143.0 | 21.60 | 35.6 | 12.7 | | | 199.0 | | | 36.0 | | | | |
| YF527 | | 7.70 | 19.5 | | | | 31.0 | 7.80 | 9.2 | 3.3 | 0.08 | | 105.0 | | 37.0 | 7.8 | 0.5 | 0.02 | | 250 |
| YF566 | | | 28.0 | | | | 53.0 | 14.10 | 20.5 | 7.5 | 0.18 | 0.1 [1] | 169.0 | | 107.0 | 22.1 | | 0.50 | | |
| YELLOWSTONE RIVER SAMPLES | | | | | | | | | | | | | | | | | | | | |
| YF519 | | 7.50 | 10.6 | | | | 4.7 | 2.40 | 8.5 | 1.6 | 0.04 | | 40.0 | | 7.0 | 4.6 | 0.7 | 0.10 | | 89 |
| YF559 | | | 10.3 | | | | 6.0 | 2.00 | 8.3 | 1.6 | 0.04 | 0.1 [1] | 38.0 | | 9.4 | 4.5 | | 0.10 | | |
| YF454 | | | | | | | 10.9 | 2.38 | 10.8 | 2.4 | | | 35.0 | | 10.5 | 5.3 | 0.6 | | | |

| NUMBER | DATE | GROUP | NAME | TYPE | DESCRIPTION | LATITUDE | LONGITUDE | TEMP |
|---|---|---|---|---|---|---|---|---|
| YELLOWSTONE RIVER SAMPLES | | | | | | | | |
| YF530 | MAY 72 | | YELLOWSTONE | RIVER | AT CHITTENDEN BRDG | 44 42.485 | 110 30.108 | |
| YF561 | 12 SEP 72 | | YELLOWSTONE | RIVER | AT CHITTENDEN BRDG | 44 48.485 | 110 30.108 | |
| YF455 | 11 JUL 69 | | YELLOWSTONE | RIVER | AT LAMAR BRDG ABV LAMAR R . | 45 6.716 | 110 47.537 | |
| YF523 | MAY 72 | | YELLOWSTONE | RIVER | AT LAMAR BRDG ABV LAMAR R | 44 55.234 | 110 24.206 | |
| YF562 | 12 SEP 72 | | YELLOWSTONE | RIVER | AT LAMAR BRDG | 44 55.234 | 110 24.206 | |
| YF291 | 24 JUN 66 | | YELLOWSTONE | RIVER | AT CORWIN SPRINGS GAGE | 45 6.716 | 110 47.537 | 29.0 |
| YT14 | 27 SEP 66 | | YELLOWSTONE | RIVER | AT CORWIN SPRINGS GAGE | 45 6.716 | 110 47.537 | |
| W9 | 26 OCT 66 | | YELLOWSTONE | RIVER | AT CORWIN SPRINGS GAGE | 45 6.716 | 110 47.537 | |
| YF387 | 24 JUL 67 | | YELLOWSTONE | RIVER | AT CORWIN SPRINGS GAGE | 45 6.716 | 110 47.537 | |
| YF474 | 24 JAN 70 | | YELLOWSTONE | RIVER | AT CORWIN SPRINGS GAGE | 45 6.716 | 110 47.537 | |
| YF526 | MAY 72 | | YELLOWSTONE | RIVER | AT CORWIN SPRINGS GAGE | 45 6.716 | 110 47.537 | |
| YF565 | 12 SEP 72 | | YELLOWSTONE | RIVER | AT CORWIN SPRINGS GAGE | 45 6.716 | 110 47.537 | |
| YF520 | MAY 72 | | UNNAMED | RIVER | STM OFF ELEPHANT BACK AT HIWAY BRDG | 44 35.379 | 110 23.099 | |
| YF560 | 12 SEP 72 | | UNNAMED | RIVER | STM OFF ELEPHANT BACK AT HIWAY BRDG | 44 35.379 | 110 23.099 | |
| YF524 | MAY 72 | | LAMAR | RIVER | AT LAMAR GAGE | 44 55.658 | 110 23.708 | |
| YF563 | 12 SEP 72 | | LAMAR | RIVER | AT LAMAR GAGE SITE | 44 55.658 | 110 23.708 | |
| YF525 | MAY 72 | | LAVA | RIVER | AT HIWAY BRDG | 44 51.931 | 110 38.026 | |
| YF564 | 12 SEP 72 | | LAVA | RIVER | AT HIWAY BRDG | 44 51.931 | 110 38.026 | |

| NUMBER | FPH | LPH | SIO2 | AL | FE | MN | CA | MG | NA | K | LI | NH4 | HCO3 | CO3 | SO4 | CL | F | B | H2S | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YELLOWSTONE RIVER SAMPLES | | | | | | | | | | | | | | | | | | | | |
| YF530 | | 7.00 | 14.0 | | | | 4.9 | 2.30 | 10.8 | 2.1 | 0.04 | | 34.0 | | 13.0 | 7.2 | 0.7 | 0.12 | | 100 |
| YF561 | | | 15.1 | | | | 5.4 | 2.10 | 12.4 | 2.6 | 0.06 | 0.1 | 39.0 | | 13.1 | 6.6 | | 0.10 | | |
| YF455 | | | | | | | 11.8 | 2.38 | 12.8 | 2.4 | | | 36.0 | | 10.9 | 6.7 | 0.6 | | | |
| YF523 | | 7.30 | 19.8 | | | | 5.4 | 2.30 | 12.7 | 2.5 | 0.06 | | 41.0 | | 13.0 | 6.5 | 0.6 | 0.22 | | 110 |
| YF562 | | | 21.1 | | | | 6.4 | 2.50 | 16.0 | 3.1 | 0.08 | 0.1 | 48.0 | | 20.0 | 8.0 | | 0.30 | | |
| YF291 | | 7.63 | 13.0 | | | | 9.2 | 3.50 | 10.8 | 1.6 | | | 48.0 | | 14.0 | 4.1[2] | | | | |
| YT14 | | 7.90 | 18.0 | | | | 16.0 | 5.48 | 19.8 | 3.9 | | | 72.1 | | 30.0 | 9.5[2] | | | | |
| W9 | | 8.06 | 26.7 | | | | 19.4 | 6.50 | 31.1 | 4.8 | | | 84.0 | | 34.0 | 13.0 | | | | |
| YF387 | | 7.57 | | | | | 9.4 | 3.50 | 10.8 | 1.5 | | | 44.0 | | 19.0 | 4.5 | | | | |
| YF474 | | | | | | | 48.5 | 6.20 | 26.0 | 5.2 | | | 82.0 | | | 13.0 | | | | |
| YF526 | | 7.70 | 18.8 | | | | 11.0 | 3.50 | 7.6 | 1.7 | 0.03 | | 51.0 | | 14.0 | 3.3 | 0.3 | 0.11 | | 110 |
| YF565 | | | 19.2 | | | | 11.8 | 4.20 | 13.2 | 2.8 | 0.06 | 0.1 | 61.0 | | 19.5 | 6.4 | | 0.20 | | |
| YF520 | | 7.30 | 60.0 | | | | 5.2 | 2.40 | 9.2 | 2.8 | 0.02 | | 45.0 | | 6.5 | 0.8 | 57.0 | 0.30 | | 85 |
| YF560 | | | 42.8 | | | | 5.6 | 1.12 | 3.0 | 2.6 | 0.01 | 0.1[1] | 29.0 | | 3.6 | 0.3 | | 0.10 | | |
| YF524 | | 7.80 | 17.4 | | | | 11.8 | 3.90 | 3.6 | 0.8 | 0.01[1] | | 57.0 | | 6.4 | 0.3 | 0.2 | 0.03 | | 95 |
| YF563 | | | 18.8 | | | | 9.1 | 5.00 | 5.1 | 1.1 | 0.01[1] | 0.2 | 81.0 | | 7.3 | 0.5 | | 0.10 | | |
| YF525 | | 7.20 | 27.1 | | | | 5.7 | 2.00 | 3.2 | 1.1 | 0.01[1] | | 32.0 | | 7.4 | 0.5 | 0.7 | 0.02 | | 60 |
| YF564 | | | 35.9 | | | | 7.3 | 1.90 | 4.4 | 1.5 | 0.01[1] | 0.1 | 46.0 | | 8.6 | 0.4 | | 0.10 | | |

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