

Table 8. Data for tritium and geochemistry at selected wells.

| Sample ID | Collection date | Tritium<br>TU | Error (+/-)<br>TU | Comments             | Sample depth<br>BTOC in ft. | Conductivity<br>µS/cm | Chloride from test strips<br>mg/L | pH  | Temperature<br>degrees Celsius | Dissolved oxygen<br>mg/L | Alkalinity<br>mg/L as CaCO <sub>3</sub> | ICP-AES    |            |            |           |            |            |            |            |            |            | ICP-MS     |            |           |            |            |            |            |            |            |           |            |            |            |                          |                         |            |           |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |            |            |            |            |            |            |            |            |            |            |           |            |            |            |            |            |            |                          |            |                         |            |            |
|-----------|-----------------|---------------|-------------------|----------------------|-----------------------------|-----------------------|-----------------------------------|-----|--------------------------------|--------------------------|---|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|--------------------------|-------------------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|--------------------------|------------|-------------------------|------------|------------|
|           |                 |               |                   |                      |                             |                       |                                   |     |                                |                          |   | Ag<br>µg/L | Al<br>µg/L | As<br>µg/L | B<br>µg/L | Ba<br>µg/L | Be<br>µg/L | Ca<br>mg/L | Cd<br>µg/L | Co<br>µg/L | Cr<br>µg/L | Cu<br>µg/L | Fe<br>µg/L | K<br>mg/L | Li<br>µg/L | Mg<br>mg/L | Mn<br>µg/L | Mo<br>µg/L | Na<br>mg/L | Ni<br>µg/L | P<br>mg/L | Pb<br>µg/L | Sb<br>µg/L | Se<br>µg/L | SiO <sub>2</sub><br>mg/L | SO <sub>4</sub><br>mg/L | Sr<br>µg/L | V<br>µg/L | Zn<br>µg/L | Ag<br>µg/L | Al<br>µg/L | As<br>µg/L | Ba<br>µg/L | Be<br>µg/L | Bi<br>µg/L | Ca<br>mg/L | Cd<br>µg/L | Ce<br>µg/L | Co<br>µg/L | Cr<br>µg/L | Cs<br>µg/L | Cu<br>µg/L | Dy<br>µg/L | Er<br>µg/L | Eu<br>µg/L | Fe<br>µg/L | Ga<br>µg/L | Gd<br>µg/L | Ge<br>µg/L | Ho<br>µg/L | K<br>mg/L | La<br>µg/L | Li<br>µg/L | Lu<br>µg/L | Mg<br>mg/L | Mn<br>µg/L | Mo<br>µg/L | Na<br>mg/L | Nb<br>µg/L | Nd<br>µg/L | Ni<br>µg/L | P<br>mg/L | Pb<br>µg/L | Pr<br>µg/L | Rb<br>µg/L | Sb<br>µg/L | Sc<br>µg/L | Se<br>µg/L | SiO <sub>2</sub><br>mg/L | Sm<br>µg/L | SO <sub>4</sub><br>mg/L | Sr<br>µg/L | Ta<br>µg/L |
| MW-14     | 5/8/2008        | 0.65          | 0.08              | tubing set at 30 ft. | 37.63                       | 823                   |                                   | 7.0 | 15.8                           | 3.83                     | 124                                     | <5         | <20        | <50        | 349       | 49.9       | <10        | 45.7       | <5         | <10        | <10        | <10        | <20        | 2.35      | 50.8       | 16.8       | <10        | <20        | 82.4       | <10        | <0.5      | <50        | <50        | <200       | 14.1                     | 151                     | 1210       | 22.6      | <20        | <1         | <2         | 9.2        | 47.9       | <0.05      | <0.2       | 46.1       | <0.02      | 0.02       | 0.1        | <0.005     | <50        | <0.05      | <0.005     | 0.08       | <0.005     | 2.4        | 0.01       | 41.6       | <0.1       | 14.8       | 0.3       | 4.1        | 84.4       | <0.2       | 0.02       | <0.4       | <0.01      | <0.05      | <0.01      | 2.5        | <0.3       | <0.6      | 13.5       | 8.2        | <0.01      | 130        | 1280       | <0.02      |                          |            |                         |            |            |
| MW-29     | 5/8/2008        | 0.48          | 0.04              | tubing set at 27.5   | 29.1                        | 2500                  | 285                               | 7.5 | 17.7                           | 2.31                     | 212                                     | <5         | <20        | 51.6       | 690       | 28.7       | <10        | 61.3       | <5         | <10        | <10        | <10        | <20        | 2.58      | 128        | 27         | 18.6       | <20        | 406        | <10        | <0.5      | <50        | <50        | <200       | 19.8                     | 615                     | 1590       | 15.5      | <20        | <1         | <2         | 10.8       | 27.9       | <0.05      | <0.2       | 60.2       | <0.02      | 0.01       | 0.3        | 1.5        | <0.02      | <0.5       | <0.005     | 0.007      | <0.005     | <50        | <0.05      | 0.02       | <0.05      | <0.005     | 2.6       | <0.01      | 113        | <0.1       | 22.8       | 16.2       | 14.3       | 404        | 0.75       | 0.01       | 1.1        | <0.01     | <0.05      | <0.01      | 0.51       | <0.3       | <0.6       | 23.6       | 12.1                     | <0.01      | 485                     | 1690       | 0.1        |
| WP-05     | 5/8/2008        | 0.35          | 0.11              | tubing set at 28 ft. | 30.75                       | 1356                  |                                   | 7.6 | 16.2                           | 3.82                     | 130                                     | <5         | <20        | <50        | 231       | 62.5       | <10        | 80.8       | <5         | <10        | <10        | <10        | <20        | 3.25      | 56.4       | 32.1       | 25.2       | <20        | 128        | <10        | <0.5      | <50        | <50        | <200       | 19.1                     | 289                     | 2400       | 15.5      | <20        | <1         | 2.7        | 6.5        | 60.3       | <0.05      | <0.2       | 82.4       | <0.02      | <0.01      | 0.14       | 2.3        | <0.02      | <0.5       | 0.006      | 0.01       | 0.02       | <50        | <0.05      | <0.005     | 0.06       | <0.005     | 3.31      | <0.01      | 45.4       | <0.1       | 27.9       | 22         | 3.8        | 132        | <0.2       | 0.02       | 0.7        | <0.01     | <0.05      | <0.01      | 1.17       | <0.3       | <0.6       | 14.9       | 12.5                     | 0.01       | 234                     | 2530       | <0.02      |
| WP-08     | 5/8/2008        | 0.36          | 0.12              | tubing set at 18.4   | 19.4                        | 5580                  | 966                               | 7.3 | 16.2                           | 1.08                     | 234                                     | <5         | <20        | 64.5       | 399       | 147        | <10        | 92         | <5         | 10.2       | <10        | <10        | <200       | 8.61      | 129        | 23.8       | 1870       | <20        | 1010       | <10        | <0.5      | <50        | <50        | <200       | 21.2                     | 1380                    | 2340       | <10       | <20        | <1         | 3.5        | 14         | 145        | <0.05      | <0.2       | 95         | <0.02      | 0.91       | 7.09       | 3          | <0.02      | <0.5       | 0.04       | 0.02       | 0.02       | 1130       | <0.05      | 0.055      | 0.24       | 0.007      | 8.28      | 0.22       | 116        | <0.1       | 20.8       | 1830       | 21.5       | 1040       | <0.2       | 0.22       | 6.5        | 0.01      | <0.05      | 0.03       | 2.56       | <0.3       | <0.6       | 26.6       | 14.7                     | 0.03       | 1120                    | 2550       | <0.02      |
| WP-10     | 5/8/2008        | 0.24          | 0.09              | tubing set at 35 ft. | 38.3                        | 2960                  | 523                               | 7.6 | 18.8                           | 4.22                     | 180                                     | <5         | 29.3       | 69         | 623       | 52.9       | <10        | 149        | <5         | <10        | <10        | <10        | <20        | 3.18      | 134        | 49.3       | <10        | <20        | 379        | <10        | <0.5      | <50        | <50        | <200       | 23                       | 679                     | 3680       | 38.7      | <20        | <1         | 3.5        | 14         | 51.3       | <0.05      | 0.49       | 151        | <0.02      | 0.01       | 0.05       | 1.8        | 0.06       | <0.5       | <0.005     | 0.02       | 0.006      | <50        | <0.05      | 0.01       | <0.05      | <0.005     | 3.1       | <0.01      | 123        | <0.1       | 44.3       | 9.9        | 6.3        | 382        | 1.92       | 0.01       | 0.8        | <0.01     | <0.05      | <0.01      | 1.09       | <0.3       | <0.6       | 29.4       | 15.1                     | <0.01      | 528                     | 3900       | 0.48       |

Wells were micropurged to avoid drawdown and sampled once field parameter stabilized  
 Sample was collected with tubing set at depth indicated and water was pumped using a peristaltic pump

Abbreviations:  
 < is less than the detection limit  
 µS/cm is microSiemens per centimeter  
 mg/L is milligrams per liter  
 µg/L is micrograms per liter  
 ICP-AES is inductively coupled plasma-atomic emission spectrometry  
 ICP-MS is inductively coupled plasma-mass spectrometry  
 IC is ion chromatography  
 BTOC = below top of casing  
 TU = tritium units

|             |                 |
|-------------|-----------------|
| <b>Ag</b>   | Silver          |
| <b>Al</b>   | Aluminum        |
| <b>As</b>   | Arsenic         |
| <b>Ba</b>   | Barium          |
| <b>Be</b>   | Beryllium       |
| <b>Bi</b>   | Bismuth         |
| <b>Ca</b>   | Calcium         |
| <b>Cd</b>   | Cadmium         |
| <b>Ce</b>   | Cerium          |
| <b>Cl</b>   | Chlorine        |
| <b>Co</b>   | Cobalt          |
| <b>Cr</b>   | Chromium        |
| <b>Cs</b>   | Cesium          |
| <b>Cu</b>   | Copper          |
| <b>Dy</b>   | Dysprosium      |
| <b>Er</b>   | Erbium          |
| <b>Eu</b>   | Europium        |
| <b>F</b>    | Fluorine        |
| <b>Fe</b>   | Iron            |
| <b>Ga</b>   | Gallium         |
| <b>Gd</b>   | Gadolinium      |
| <b>Ge</b>   | Germanium       |
| <b>Ho</b>   | Holmium         |
| <b>K</b>    | Potassium       |
| <b>La</b>   | Lanthanum       |
| <b>Li</b>   | Lithium         |
| <b>Lu</b>   | Lutetium        |
| <b>Mg</b>   | Magnesium       |
| <b>Mn</b>   | Manganese       |
| <b>Mo</b>   | Molybdenum      |
| <b>Na</b>   | Sodium          |
| <b>Nb</b>   | Niobium         |
| <b>Nd</b>   | Neodymium       |
| <b>Ni</b>   | Nickel          |
| <b>NO3</b>  | Nitrate         |
| <b>P</b>    | Phosphorus      |
| <b>Pb</b>   | Lead            |
| <b>Pr</b>   | Praseodymium    |
| <b>Rb</b>   | Rubidium        |
| <b>Sb</b>   | Antimony        |
| <b>Sc</b>   | Scandium        |
| <b>Se</b>   | Selenium        |
| <b>SiO2</b> | Silicon Dioxide |
| <b>Sm</b>   | Samarium        |
| <b>SO4</b>  | Sulfate         |
| <b>Sr</b>   | Strontium       |
| <b>Ta</b>   | Tantalum        |
| <b>Tb</b>   | Terbium         |
| <b>Th</b>   | Thorium         |
| <b>Ti</b>   | Titanium        |
| <b>Tl</b>   | Thallium        |
| <b>Tm</b>   | Thulium         |
| <b>U</b>    | Uranium         |
| <b>V</b>    | Vanadium        |
| <b>W</b>    | Tungsten        |
| <b>Y</b>    | Yttrium         |
| <b>Yb</b>   | Ytterbium       |
| <b>Zn</b>   | Zinc            |
| <b>Zr</b>   | Zirconium       |