

# Artesian Well - 800 South 500 East

## 2019 Data

The information below represents annual sampling for full chemistry and organics. Weekly bacteria testing for total coliform, *E. coli*, and heterotrophic plate count (HPC) are also performed. For any questions concerning these tests and/or results, please contact the Salt Lake City Department of Public Utilities Water Quality Division: Arlene Larsen (801.483.6832 or [arlene.larsen@slcgov.com](mailto:arlene.larsen@slcgov.com)) or Marian Rice (801-483-6765 or [marian.rice@slcgov.com](mailto:marian.rice@slcgov.com)).

| CHEMISTRY              |                                    |                                                        |
|------------------------|------------------------------------|--------------------------------------------------------|
| Analyte                | Results (mg/L or ppm) <sup>1</sup> | EPA Max Contaminant Level <sup>2</sup><br>(mg/L / ppm) |
| Alkalinity Titration   | 286                                |                                                        |
| Aluminum               | 0.05                               | 0.2 <sup>a</sup>                                       |
| Ammonia as N           | ND <sup>3</sup>                    |                                                        |
| Antimony               | ND                                 | 0.006                                                  |
| Arsenic                | 0.0011                             | 0.01                                                   |
| Barium                 | 0.042                              | 2                                                      |
| Beryllium              | ND                                 | 0.004                                                  |
| Bromide                | 0.1                                |                                                        |
| Cadmium                | ND                                 | 0.005                                                  |
| Calcium                | 133                                |                                                        |
| Chloride               | 170                                | 250                                                    |
| Chromium               | ND                                 | 0.1                                                    |
| Copper                 | ND                                 | Action Level <sup>4</sup> = 1.3                        |
| Fluoride               | 0.2                                | 4                                                      |
| Hardness               | 549                                |                                                        |
| Iron                   | 0.09                               | 0.3 <sup>a</sup>                                       |
| Langelier Index        | 0.02                               |                                                        |
| Lead                   | ND                                 | Action Level <sup>4</sup> = 0.015                      |
| Magnesium              | 52.7                               |                                                        |
| Manganese              | 0.0078                             |                                                        |
| Mercury                | ND                                 | 0.002                                                  |
| Molybdenum             | ND                                 |                                                        |
| Nickel                 | ND                                 |                                                        |
| Nitrate-N              | 3.4                                | 10                                                     |
| Nitrite-N              | ND                                 | 1                                                      |
| Ortho-Phosphate as P   | ND                                 |                                                        |
| pH                     | 7.2                                |                                                        |
| Perchlorate            | 3.31 <sup>5,c</sup>                |                                                        |
| Potassium              | 3.2                                |                                                        |
| Selenium               | 0.0021                             | 0.05                                                   |
| Silver                 | ND                                 | 0.1 <sup>a</sup>                                       |
| Sodium                 | 65.7                               |                                                        |
| Sulfate                | 149                                | 250 <sup>a</sup>                                       |
| Thallium               | ND                                 | 0.002                                                  |
| Total Cyanide          | ND                                 | 0.2                                                    |
| Total Dissolved Solids | 780                                | 2000 <sup>b</sup>                                      |
| Total Organic Carbon   | ND                                 |                                                        |
| UV254 cm-1             | ND                                 |                                                        |
| Vanadium               | ND                                 |                                                        |

| Zinc                           | ND                                 | 5 <sup>a</sup>                         |
|--------------------------------|------------------------------------|----------------------------------------|
| <b>ORGANICS</b>                |                                    |                                        |
| Analyte                        | Results (µg/L or ppb) <sup>5</sup> | EPA Max Contaminant Level (µg/L / ppb) |
| <b>Carbamates</b>              |                                    |                                        |
| 3-Hydroxycarbofuran            | ND                                 |                                        |
| Aldicarb                       | ND                                 |                                        |
| Aldicarb sulfone               | ND                                 |                                        |
| Aldicarb sulfoxide             | ND                                 |                                        |
| Carbaryl                       | ND                                 |                                        |
| Carbofuran                     | ND                                 | 40                                     |
| Methomyl                       | ND                                 |                                        |
| Oxamyl                         | ND                                 | 200                                    |
| <b>Herbicides</b>              |                                    |                                        |
| 2,4,5-TP (Silvex)              | ND                                 | 50                                     |
| 2,4-D                          | ND                                 | 70                                     |
| Dalapon                        | ND                                 | 200                                    |
| Dicamba                        | ND                                 |                                        |
| Dinoseb                        | ND                                 | 7                                      |
| Pentachlorophenol              | ND                                 | 1                                      |
| Picloram                       | ND                                 | 500                                    |
| <b>Pesticides</b>              |                                    |                                        |
| Endrin                         | ND                                 | 2                                      |
| Heptachlor                     | ND                                 | 0.4                                    |
| Heptachlor epoxide             | ND                                 | 0.2                                    |
| Lindane                        | ND                                 | 0.2                                    |
| Methoxychlor                   | ND                                 | 40                                     |
| PCB-1016                       | ND                                 | 0.2                                    |
| PCB-1221                       | ND                                 | 0.5                                    |
| PCB-1232                       | ND                                 | 0.5                                    |
| PCB-1242                       | ND                                 | 0.5                                    |
| PCB-1248                       | ND                                 | 0.5                                    |
| PCB-1254                       | ND                                 | 0.5                                    |
| PCB-1260                       | ND                                 | 0.5                                    |
| PCB - Total                    | ND                                 | 0.5                                    |
| Toxaphene                      | ND                                 | 3                                      |
| <b>Semi-Volatile Compounds</b> |                                    |                                        |
| Alachlor                       | ND                                 | 2                                      |
| Aldrin                         | ND                                 |                                        |
| Atrazine                       | ND                                 | 3                                      |
| Benzo (a) pyrene               | ND                                 | 0.2                                    |
| Bis(2-ethylhexyl) adipate      | ND                                 | 400                                    |
| Bis (2-ethylhexyl) Phthalate   | ND                                 | 6                                      |
| Butachlor                      | ND                                 |                                        |
| alpha-Chlordane                | ND                                 | 2                                      |
| gamma-Chlordane                | ND                                 | 2                                      |
| Chlordane - Total              | ND                                 | 2                                      |

|                                   |       |     |
|-----------------------------------|-------|-----|
| Dieldrin                          | ND    |     |
| Hexachlorobenzene                 | ND    | 1   |
| Hexachlorocyclopentadiene         | ND    | 50  |
| Metolachlor                       | ND    |     |
| Metribuzin                        | ND    |     |
| Propachlor                        | ND    |     |
| Simazine                          | ND    | 4   |
| <b>Volatile Organic Compounds</b> |       |     |
| 1,1,1,2-Tetrachloroethane         | ND    |     |
| 1,1,1-Trichloroethane             | ND    | 200 |
| 1,1,2,2-Tetrachloroethane         | ND    |     |
| 1,1,2-Trichloroethane             | ND    | 5   |
| 1,1,2-Trichlorotrifluoroethane    | ND    |     |
| 1,1-Dichloroethane                | ND    | 7   |
| 1,1-Dichloroethene                | ND    |     |
| 1,1-Dichloropropene               | ND    |     |
| 1,2,3-Trichlorobenzene            | ND    |     |
| 1,2,3-Trichloropropane            | ND    |     |
| 1,2,4-Trichlorobenzene            | ND    | 70  |
| 1,2,4-Trimethylbenzene            | ND    | 70  |
| 1,2-Dichlorobenzene               | ND    | 600 |
| 1,2-Dichloroethane                | ND    | 5   |
| 1,2-Dichloropropane               | ND    | 5   |
| 1,3,5-Trimethylbenzene            | ND    |     |
| 1,3-Dichlorobenzene               | ND    |     |
| 1,3-Dichloropropane               | ND    |     |
| 1,4-Dichlorobenzene               | ND    | 75  |
| 2,2-Dichloropropane               | ND    |     |
| 2-Chlorotoluene                   | ND    |     |
| 4-Chlorotoluene                   | ND    |     |
| Benzene                           | ND    | 5   |
| Bromobenzene                      | ND    |     |
| Bromochloromethane                | ND    |     |
| Bromodichloromethane              | ND    |     |
| Bromoform                         | ND    |     |
| Bromomethane                      | ND    |     |
| Carbon Tetrachloride              | ND    | 5   |
| Chlorobenzene                     | ND    | 100 |
| Chloroethane                      | ND    |     |
| Chloroform                        | 1.8 * |     |
| Chloromethane                     | ND    |     |
| cis-1,2-Dichloroethene            | ND    |     |
| cis-1,3-Dichloropropene           | ND    |     |
| Dibromochloromethane              | ND    |     |
| Dibromomethane                    | ND    |     |
| Dichlorodifluoromethane           | ND    |     |
| Ethyl Benzene                     | ND    | 700 |
| Hexachlorobutadiene               | ND    |     |
| Isopropylbenzene                  | ND    |     |

|                                  |                                |                                                 |
|----------------------------------|--------------------------------|-------------------------------------------------|
| Methyl tert-Butyl Ether (MTBE)   | ND                             |                                                 |
| Methylene Chloride               | ND                             | 5                                               |
| Naphthalene                      | ND                             |                                                 |
| n-Butyl Benzene                  | ND                             |                                                 |
| n-Propyl Benzene                 | ND                             |                                                 |
| p-Isopropyltoluene               | ND                             |                                                 |
| sec-Butyl Benzene                | ND                             |                                                 |
| Styrene                          | ND                             | 100                                             |
| tert-Butylbenzene                | ND                             |                                                 |
| Tetrachloroethene                | ND                             | 5                                               |
| Toluene                          | ND                             | 1000                                            |
| trans-1,2-Dichloroethene         | ND                             | 100                                             |
| trans-1,3-Dichloropropene        | ND                             |                                                 |
| Trichloroethene                  | ND                             | 5                                               |
| Trichlorofluoromethane           | ND                             |                                                 |
| Vinyl Chloride                   | ND                             | 2                                               |
| Xylenes, total                   | ND                             | 10000                                           |
|                                  |                                |                                                 |
| <b>RADIONUCLIDES<sup>6</sup></b> |                                |                                                 |
| <b>Analyte</b>                   | <b>Results (Picocuries/L )</b> | <b>EPA Max Contaminant Level (Picocuries/L)</b> |
| Gross Alpha                      | <2                             | 15                                              |
| Radium 228                       | <1                             | 5                                               |

<sup>1</sup> Units are in milligrams per liter (µg/L). Milligrams per liter are equivalent to parts per million (1 penny in \$10,000).

<sup>2</sup> Max Contaminant Level (MCL) - The highest or maximum level of a contaminant that is allowed in drinking water.

<sup>3</sup> Non Detect (ND) - Indicates that the analyte was not present in the sample.

<sup>4</sup> Action Level - The level of lead or copper which, if exceeded in over 10% of homes tested, triggers treatment or other requirements that a water system must follow.

<sup>5</sup> Units are in micrograms per liter (µg/L). Micrograms per liter are equivalent to parts per billion (1 penny in \$10 million).

<sup>6</sup> Radionuclides results are from 2012.

<sup>a</sup> Secondary Drinking Water Standards MCL

<sup>b</sup> Utah State Primary Standard

<sup>c</sup> Perchlorate is both a naturally occurring and man-made chemical that is used to produce rocket fuel, fireworks, flares and explosives. Perchlorate can also be present in bleach and in some fertilizers. Low levels of perchlorate are found in this well may or may not be naturally occurring. See link below for more information on Perchlorates.

<https://www.epa.gov/sdwa/perchlorate-drinking-water>

\* Detection of Chloroform may be due to the irrigation of surface areas with chlorinated water.