September 2017

To ensure your tap water is safe, clean and secure, Tucson Water conducts approximately 14,500 individual tests each year on the water in the main distribution system – before it reaches your home. Test results for key parameters are reported by 10 water quality zones for a water distribution system that covers some 375 square miles.
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Main Water System

Test Results by Water Quality Zone

<table>
<thead>
<tr>
<th>Zones</th>
<th>Hardness (mg/L)</th>
<th>Sodium (mg/L)</th>
<th>Nitrate-N (mg/L)</th>
<th>Fluoride (mg/L)</th>
<th>pH Level (S.U.)</th>
<th>Minerals (mg/L)</th>
<th>Temperature (deg°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>235</td>
<td>64</td>
<td>0.87</td>
<td>0.49</td>
<td>7.7</td>
<td>479</td>
<td>86.3</td>
</tr>
<tr>
<td>2</td>
<td>232</td>
<td>63</td>
<td>0.93</td>
<td>0.47</td>
<td>7.7</td>
<td>479</td>
<td>86.3</td>
</tr>
<tr>
<td>3</td>
<td>231</td>
<td>63</td>
<td>1.19</td>
<td>0.55</td>
<td>7.8</td>
<td>472</td>
<td>86.2</td>
</tr>
<tr>
<td>4</td>
<td>225</td>
<td>60</td>
<td>1.02</td>
<td>0.46</td>
<td>7.7</td>
<td>455</td>
<td>86.4</td>
</tr>
<tr>
<td>5</td>
<td>220</td>
<td>60</td>
<td>1.02</td>
<td>0.45</td>
<td>7.6</td>
<td>444</td>
<td>85.5</td>
</tr>
<tr>
<td>6</td>
<td>200</td>
<td>52</td>
<td>1.24</td>
<td>0.41</td>
<td>7.6</td>
<td>419</td>
<td>86.2</td>
</tr>
<tr>
<td>7</td>
<td>201</td>
<td>53</td>
<td>1.36</td>
<td>0.41</td>
<td>7.7</td>
<td>387</td>
<td>88.9</td>
</tr>
<tr>
<td>8</td>
<td>242</td>
<td>63</td>
<td>1.61</td>
<td>0.48</td>
<td>7.6</td>
<td>470</td>
<td>87.4</td>
</tr>
<tr>
<td>9</td>
<td>269</td>
<td>60</td>
<td>2.09</td>
<td>0.57</td>
<td>7.6</td>
<td>493</td>
<td>86.8</td>
</tr>
<tr>
<td>10</td>
<td>239</td>
<td>64</td>
<td>0.78</td>
<td>0.42</td>
<td>7.7</td>
<td>476</td>
<td>87.9</td>
</tr>
<tr>
<td>Avg</td>
<td>227</td>
<td>60</td>
<td>1.24</td>
<td>0.47</td>
<td>7.7</td>
<td>453</td>
<td>86.7</td>
</tr>
</tbody>
</table>

* mg/L means milligrams per liter  1 mg/L = 1 teaspoon in 1,302 gallons
S.U. = Sample Units  SP = Sample Points  deg°F = Degrees Fahrenheit

Total Coliform & E. coli

EPA standards for Total Coliform and E. coli

Total Coliform positive samples/mo. – 247 samples
E. coli positive samples/mo. – 247 samples
Follow-up assessment required?

Chlorine

EPA Standard
Max. 4.0 mg/L

Tucson Water target average
0.8 to 1.2 mg/L

Actual Average
247 samples – 0.9 mg/L
Catalina Water System

Catalina is a community partially served by Tucson Water. It has about 400 connections, supplying water to about 1,000 persons with water from two wells.

Corona de Tucson Water System

Corona de Tucson is a community located near Sahuarita and Houghton Roads, with about 2,600 connections supplying about 7,300 persons with water from three wells.

September 2017

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TEST RESULTS from up to 2 Sample Points (SP)

<table>
<thead>
<tr>
<th>Hardness</th>
<th>Sodium</th>
<th>Nitrate-N</th>
<th>Fluoride</th>
<th>pH Level</th>
<th>Minerals</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>(mg/L)1 SP</td>
<td>(mg/L)1 SP</td>
<td>(mg/L)1 SP</td>
<td>(mg/L)1 SP</td>
<td>(S.U.)1 SP</td>
<td>(mg/L)1 SP</td>
<td>(deg°F)1 SP</td>
</tr>
<tr>
<td>87</td>
<td>24</td>
<td>0.46</td>
<td>0.57</td>
<td>7.9</td>
<td>178</td>
<td>84.9</td>
</tr>
</tbody>
</table>

* mg/L means milligrams per liter 1 mg/L = 1 teaspoon in 1,302 gallons
S.U. = Sample Units SP = Sample Points deg°F = Degrees Fahrenheit

TOTAL COLIFORM & E. COLI

EPA standards for Total Coliform and E. coli

Total Coliform positive samples/mo. – 2 samples
E. coli positive samples/mo. – 2 samples
Follow-up assessment required?

CHLORINE

EPA Standard Max. 4.0 mg/L

Actual Average
2 samples – 0.8 mg/L
Tucson Water target average 0.8 to 1.2 mg/L

TEST RESULTS from up to 9 Sample Points (SP)

<table>
<thead>
<tr>
<th>Hardness</th>
<th>Sodium</th>
<th>Nitrate-N</th>
<th>Fluoride</th>
<th>pH Level</th>
<th>Minerals</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>(mg/L)9 SP</td>
<td>(mg/L)9 SP</td>
<td>(mg/L)9 SP</td>
<td>(mg/L)9 SP</td>
<td>(S.U.)9 SP</td>
<td>(mg/L)9 SP</td>
<td>(deg°F)9 SP</td>
</tr>
<tr>
<td>149</td>
<td>45</td>
<td>1.40</td>
<td>0.53</td>
<td>7.6</td>
<td>304</td>
<td>90.9</td>
</tr>
</tbody>
</table>

* mg/L means milligrams per liter 1 mg/L = 1 teaspoon in 1,302 gallons
S.U. = Sample Units SP = Sample Points deg°F = Degrees Fahrenheit

TOTAL COLIFORM & E. COLI

EPA standards for Total Coliform and E. coli

Total Coliform positive samples/mo. – 9 samples
E. coli positive samples/mo. – 9 samples
Follow-up assessment required?

CHLORINE

EPA Standard Max. 4.0 mg/L

Actual Average
9 samples – 0.8 mg/L
Tucson Water target average 0.8 to 1.2 mg/L
Diamond Bell Water System

Diamond Bell is a community located south and east of Sasabe Road and Diamond Bell Ranch Road respectively, with about 200 connections supplying about 570 persons with water from two wells.

Rancho del Sol Lindo & White Fence Farms Water System

Rancho del Sol Lindo is a community located southwest of Silverbell Road and North Trico Road. Rancho del Sol Lindo has about 1,000 connections, supplying about 2,700 persons with water from two wells.

September 2017

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This is a small community by the Three Points area, with 30 connections supplying approximately 75 people from one well.

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The Silverbell West system has 83 connections serving approximately 230 people from one well.
Thunderhead Ranch Water System

Thunderhead Ranch is a small subdivision west of Old Spanish Trail and about one and a half miles south of Irvington Road. It has about 57 connections supplying about 160 persons with water from two wells.

Test Results from 1 Sample Point (SP)

<table>
<thead>
<tr>
<th>Hardness (mg/L)</th>
<th>Sodium (mg/L)</th>
<th>Nitrate-N (mg/L)</th>
<th>Fluoride (mg/L)</th>
<th>pH Level (5.0)</th>
<th>Minerals (mg/L)</th>
<th>Temperature (deg°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>83</td>
<td>13</td>
<td>1.17</td>
<td>0.20</td>
<td>7.7</td>
<td>150</td>
<td>89.1</td>
</tr>
</tbody>
</table>

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S.U. = Sample Units  
SP = Sample Points  
deg°F = Degrees Fahrenheit

Total Coliform & E. coli

- EPA standards for Total Coliform and E. coli

- Total Coliform positive samples/mo. – 1 sample
- E. coli positive samples/mo. – 1 sample
- Follow-up assessment required?

- Total Coliform positive samples/mo. – 0
- E. coli positive samples/mo. – 0
- Follow-up assessment required? – no

CHLORINE

- Actual Average
  - 1 sample – 0.9 mg/L
  - Tucson Water target average
  - 0.8 to 1.2 mg/L

Tucson Police-Fire Academy Water System

The Police-Fire Academy, located south of Interstate 10 and east of Wilmot Road, was built in the late 1990s. One well supplies about 25 persons regularly, plus class members taught at this facility.

Test Results from 1 Sample Point (SP)

<table>
<thead>
<tr>
<th>Hardness (mg/L)</th>
<th>Sodium (mg/L)</th>
<th>Nitrate-N (mg/L)</th>
<th>Fluoride (mg/L)</th>
<th>pH Level (5.0)</th>
<th>Minerals (mg/L)</th>
<th>Temperature (deg°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>199</td>
<td>41</td>
<td>0.80</td>
<td>0.37</td>
<td>7.4</td>
<td>353</td>
<td>81.1</td>
</tr>
</tbody>
</table>

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1 mg/L = 1 teaspoon in 1,302 gallons  
S.U. = Sample Units  
SP = Sample Points  
deg°F = Degrees Fahrenheit

Total Coliform & E. coli

- EPA standards for Total Coliform and E. coli

- Total Coliform positive samples/mo. – 1 sample
- E. coli positive samples/mo. – 1 sample
- Follow-up assessment required?

- Total Coliform positive samples/mo. – 0
- E. coli positive samples/mo. – 0
- Follow-up assessment required? – no

CHLORINE

- Actual Average
  - 1 sample – 0.5 mg/L
  - Tucson Water target average
  - 0.8 to 1.2 mg/L
Valley View Acres is a small community located north of Hilltop Road, just west of Sandario Road, with about 150 connections supplying about 470 people with water from two wells.

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Valley View Acres Water System

Valley View Acres is a small community located north of Hilltop Road, just west of Sandario Road, with about 150 connections supplying about 470 people with water from two wells.

TEST RESULTS from 1 Sample Point (SP)

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Measurement</th>
<th>Unit</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness</td>
<td>mg/L</td>
<td>S.U.</td>
<td>1.75</td>
</tr>
<tr>
<td>Sodium</td>
<td>mg/L</td>
<td>S.U.</td>
<td>43</td>
</tr>
<tr>
<td>Nitrate-N</td>
<td>mg/L</td>
<td>S.U.</td>
<td>1.75</td>
</tr>
<tr>
<td>Fluoride</td>
<td>mg/L</td>
<td>S.U.</td>
<td>0.64</td>
</tr>
<tr>
<td>pH Level</td>
<td>S.U.</td>
<td>deg°F</td>
<td>7.5</td>
</tr>
<tr>
<td>Minerals</td>
<td>mg/L</td>
<td>deg°F</td>
<td>277</td>
</tr>
<tr>
<td>Temperature</td>
<td>deg°F</td>
<td>deg°F</td>
<td>86.7</td>
</tr>
</tbody>
</table>

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S.U. = Sample Units SP = Sample Points deg°F = Degrees Fahrenheit

EPA standards for Total Coliform and E. coli

Total Coliform positive samples/mo. – 1 sample
E. coli positive samples/mo. – 1 sample
Follow-up assessment required? no

CHLORINE

Actual Average 1 sample – 0.8 mg/L

EPA Standard Max. 4.0 mg/L
Tucson Water target average 0.8 to 1.2 mg/L