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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### 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>97</td>
<td>37</td>
<td>1.91</td>
<td>0.47</td>
<td>8.0</td>
<td>243</td>
<td>71.3</td>
</tr>
<tr>
<td>2</td>
<td>185</td>
<td>52</td>
<td>1.94</td>
<td>0.47</td>
<td>7.9</td>
<td>380</td>
<td>72.5</td>
</tr>
<tr>
<td>3</td>
<td>177</td>
<td>50</td>
<td>2.17</td>
<td>0.51</td>
<td>7.9</td>
<td>368</td>
<td>70.4</td>
</tr>
<tr>
<td>4</td>
<td>122</td>
<td>36</td>
<td>1.55</td>
<td>0.30</td>
<td>7.7</td>
<td>247</td>
<td>72.6</td>
</tr>
<tr>
<td>5</td>
<td>129</td>
<td>39</td>
<td>1.70</td>
<td>0.33</td>
<td>7.7</td>
<td>289</td>
<td>72.6</td>
</tr>
<tr>
<td>6</td>
<td>155</td>
<td>43</td>
<td>1.87</td>
<td>0.36</td>
<td>7.8</td>
<td>343</td>
<td>72.2</td>
</tr>
<tr>
<td>7</td>
<td>164</td>
<td>47</td>
<td>1.80</td>
<td>0.39</td>
<td>7.8</td>
<td>320</td>
<td>71.6</td>
</tr>
<tr>
<td>8</td>
<td>196</td>
<td>58</td>
<td>1.63</td>
<td>0.43</td>
<td>7.8</td>
<td>424</td>
<td>73.7</td>
</tr>
<tr>
<td>9</td>
<td>201</td>
<td>58</td>
<td>1.83</td>
<td>0.68</td>
<td>7.8</td>
<td>403</td>
<td>75.2</td>
</tr>
<tr>
<td>10</td>
<td>183</td>
<td>62</td>
<td>1.31</td>
<td>0.38</td>
<td>7.8</td>
<td>407</td>
<td>74.7</td>
</tr>
<tr>
<td><strong>Avg</strong></td>
<td><strong>162</strong></td>
<td><strong>48</strong></td>
<td><strong>1.80</strong></td>
<td><strong>0.43</strong></td>
<td><strong>7.8</strong></td>
<td><strong>342</strong></td>
<td><strong>72.5</strong></td>
</tr>
</tbody>
</table>

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

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**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?

- 0

---

**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

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December 2016
Corona de Tucson

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.

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**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.

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**TEST RESULTS from 2 Sample Points (SP)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness (mg/L)</td>
<td>87</td>
</tr>
<tr>
<td>Sodium (mg/L)</td>
<td>24</td>
</tr>
<tr>
<td>Nitrate-N (mg/L)</td>
<td>0.45</td>
</tr>
<tr>
<td>Fluoride (mg/L)</td>
<td>0.54</td>
</tr>
<tr>
<td>pH Level (S.U.)</td>
<td>8.1</td>
</tr>
<tr>
<td>Minerals (mg/L)</td>
<td>175</td>
</tr>
<tr>
<td>Temperature (deg°F)</td>
<td>64.5</td>
</tr>
</tbody>
</table>

---

**Corona de Tucson Water System**

Test Results from 9 Sample Points (SP)

<table>
<thead>
<tr>
<th>Test</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness (mg/L)</td>
<td>373</td>
</tr>
<tr>
<td>Sodium (mg/L)</td>
<td>58</td>
</tr>
<tr>
<td>Nitrate-N (mg/L)</td>
<td>1.05</td>
</tr>
<tr>
<td>Fluoride (mg/L)</td>
<td>0.27</td>
</tr>
<tr>
<td>pH Level (S.U.)</td>
<td>7.3</td>
</tr>
<tr>
<td>Minerals (mg/L)</td>
<td>583</td>
</tr>
<tr>
<td>Temperature (deg°F)</td>
<td>69.3</td>
</tr>
</tbody>
</table>

---

**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**

- **Actual Average**
  - 9 samples – 0.9 mg/L

- **Tucson Water target average**
  - 0.8 to 1.2 mg/L

---

**TEST RESULTS from 9 Sample Points (SP)**

---

**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**

- **Actual Average**
  - 2 samples – 1.2 mg/L

- **Tucson Water target average**
  - 0.8 to 1.2 mg/L
December 2016

Tucson Water also monitors water quality at 9 separate and distinct community systems served solely by local groundwater wells – not from the main water distribution system. Hundreds of individual tests are conducted each year on these community wells to ensure well water is clean, safe and secure.

**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.

**TEST RESULTS from 1 Sample Point (SP)**

<table>
<thead>
<tr>
<th></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></td>
<td>116</td>
<td>30</td>
<td>1.54</td>
<td>0.31</td>
<td>7.7</td>
<td>214</td>
<td>63.9</td>
</tr>
</tbody>
</table>

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

**TEST RESULTS from 3 Sample Points (SP)**

<table>
<thead>
<tr>
<th></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></td>
<td>244</td>
<td>53</td>
<td>7.07</td>
<td>0.52</td>
<td>7.7</td>
<td>424</td>
<td>67.0</td>
</tr>
</tbody>
</table>

* mg/L means milligrams per liter  1 mg/L = 1 teaspoon in 1,302 gallons  S.U. = Sample Units  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?

- Total Coliform & E. coli
  - 0
  - 0
  - no

**CHLORINE**

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

- EPA Standard
  - Max. 4.0 mg/L
This is a small community by the Three Points area, with 30 connections supplying approximately 75 people from one well.

The Silverbell West system has 83 connections serving approximately 230 people from one well.
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.

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.

**Thunderhead Ranch Water System**

**Tucson Police-Fire Academy Water System**

**TEST RESULTS from 1 Sample Point (SP)**

**Hardness** (mg/L) SP: 90

**Sodium** (mg/L) SP: 14

**Nitrate-N** (mg/L) SP: 1.60

**Fluoride** (mg/L) SP: 0.19

**pH Level** (S.U.) SP: 7.9

**Minerals** (mg/L) SP: 142

**Temperature** (deg°F) SP: 68.0

**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?

**no**

**CHLORINE**

Actual Average 1 sample – 1.2 mg/L

Tucson Water target average 0.8 to 1.2 mg/L

**TEST RESULTS from 1 Sample Point (SP)**

**Hardness** (mg/L) SP: 206

**Sodium** (mg/L) SP: 43

**Nitrate-N** (mg/L) SP: 0.79

**Fluoride** (mg/L) SP: 0.33

**pH Level** (S.U.) SP: 7.6

**Minerals** (mg/L) SP: 349

**Temperature** (deg°F) SP: 72.5

**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?

**no**

**CHLORINE**

Actual Average 1 sample – 0.5 mg/L

Tucson Water target average 0.8 to 1.2 mg/L
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.

Dec 2016

Tucson Water also monitors water quality at 9 separate and distinct community systems served solely by local groundwater wells – not from the main water distribution system. Hundreds of individual tests are conducted each year on these community wells to ensure well water is clean, safe and secure.

TEST RESULTS from 1 Sample Point (SP)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness</td>
<td>mg/L</td>
<td>118</td>
</tr>
<tr>
<td>Sodium</td>
<td>mg/L</td>
<td>46</td>
</tr>
<tr>
<td>Nitrate-N</td>
<td>mg/L</td>
<td>1.73</td>
</tr>
<tr>
<td>Fluoride</td>
<td>mg/L</td>
<td>0.63</td>
</tr>
<tr>
<td>pH Level</td>
<td>S.U.</td>
<td>7.6</td>
</tr>
<tr>
<td>Minerals</td>
<td>mg/L</td>
<td>298</td>
</tr>
<tr>
<td>Temperature</td>
<td>deg°F</td>
<td>69.1</td>
</tr>
</tbody>
</table>

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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? no

CHLORINE

EPA Standard
Max. 4.0 mg/L

Actual Average
1 sample – 1.1 mg/L

Tucson Water target average
0.8 to 1.2 mg/L