

<b>City of Dayton</b>		<b>2019 Water Quality Averages &amp; Pumping Data Summary</b>			
					<b>Sheet 1 of 2 sheets</b>
<b>Chemical Analysis mg/l</b>	Mad River Well Field	Ottawa Water Plant Effluent	Miami Well Field	Miami Water Plant Effluent	Distribution System <sup>1</sup>
Total Hardness as CaCO <sub>3</sub>	323.46	152.12	323.45	131.98	<b>140.75</b>
P. Alk. as CaCO <sub>3</sub>		8.17		5.83	<b>6.58</b>
Total Alk. as CaCO <sub>3</sub>	280.47	98.81	280.89	79.46	<b>86.87</b>
NonCarb. Hard. as CaCO <sub>3</sub>	42.99	53.31	42.56	52.51	<b>53.88</b>
CO2 as CaCO <sub>3</sub>	207.52		213.12		
Ca. Hard. as CaCO <sub>3</sub>	207.52	56.07	213.12	60.57	<b>56.95</b>
Mg. Hard. as CaCO <sub>3</sub>	115.94	95.96	110.31	71.46	<b>81.14</b>
Calcium	83.01	22.43	85.25	24.23	<b>23.86</b>
Magnesium	28.17	23.32	26.88	17.37	<b>19.72</b>
Sulfate	37.22	37.34	45.51	45.20	<b>43.43</b>
Chloride	52.08	53.67	49.25	48.33	<b>53.33</b>
Nitrate	1.30	1.38	0.54	0.51	<b>0.76</b>
Nitrite	0.00	0.00	0.00	0.00	<b>0.00</b>
Sodium	25.13	25.07	26.55	21.85	<b>23.68</b>
Potassium	2.84	2.70	3.23	4.92	<b>4.82</b>
Chlorine - Free		1.58		1.51	<b>1.19</b>
Chlorine - Total		1.70		1.60	<b>1.27</b>
Total Organic Carbon	0.68	0.48	0.79	0.56	<b>0.51</b>
Fluoride	0.25	0.87	0.31	0.92	<b>0.89</b>
Cyanide	< 0.005	< 0.005	< 0.005	< 0.005	<b>&lt; 0.005</b>
Phenol	<0.040	<0.040	<0.040	<0.040	<b>&lt;0.040</b>
Silica	9.97	10.05	10.23	8.52	<b>9.17</b>
<b>PHYSICAL TESTS</b>					
Turbidity, NTU	3.739	0.028	1.322	0.035	<b>0.072</b>
pH, S.U.	7.593	8.679	7.450	8.583	<b>8.590</b>
Temperature, Co	14.898	15.178	16.259	15.292	<b>15.383</b>
Total Solids, mg/L	407.000	265.667	430.833	236.083	<b>246.250</b>
Conductivity, umhos/cm2	723.500	425.250	725.250	396.167	<b>729.750</b>
<b>MICROBIOLOGICAL</b>					
Total Coliform, % Positive	66.88	0.00	7.11	0.00	<b>0.067</b>
E. coli, % Positive	3.12	0.00	0.00	0.00	<b>0.000</b>
HPC colonies/100ml	798.56	13.42	346.61	11.43	<b>14.486</b>
pg CATP/mL	8.71	0.15	4.14	0.14	<b>0.173</b>
Cryptosporidium & Giardia	None Detected		None Detected		
The Mad River Well Field provides water to the Ottawa Water Treatment Plant. The Miami Well Field provides water to the Miami Water Treatment Plant.					
NTU = Nephelometric Turbidity Units (measure of "cloudiness") S.U. = Standard Units					
< = less than (indicated) detection limit HPC = Heterotrophic Plate Count					
mg/l = milligrams per liter (or parts per million)					
<sup>1</sup> Distribution System data averages are for samples collected at sites throughout the water distribution system.					
<sup>2</sup> 156 mg/l hardness is equivalent to 9.12 grains per gallon.					
<b>Treated Water Pumping</b>					
	<b>Ottawa WTP</b>		<b>Miami WTP</b>		<b>Combined</b>
Max. Daily Plant Flow	50.54 MGD		61.90 MGD		102.22 MGD Feb-14
Avg. Daily Plant Flow	36.4 MGD		27.43 MGD		63.83 MGD
In 2019 Dayton pumped 23.3 billion gallons of treated water into the distribution system.					
For more information: City of Dayton Water Lab, 3210 Chuck Wagner Lane, Dayton OH 45414 phone: 937-333-6093 or email: Brandon.Turner@daytonohio.gov					

**City of Dayton Division of Water Supply & Treatment  
2019 Water Quality Data Averages - Continued**

METAL ANALYSES:	Mad River Well Field	Ottawa Plant Eff.	Miami Well Field	Miami Plant Eff.	Distribution System
ppm					
Barium	0.157	0.045	0.147	0.044	0.072
Boron	0.042	0.042	0.052	0.051	0.053
Iron	0.372	0.028	0.400	<0.025	<0.025
Lead	<0.003	<0.003	<0.003	<0.003	<0.003
Manganese	<0.025	<0.025	0.072	<0.025	<0.025
Molybdenum	0.004	0.004	0.005	0.004	0.006
Strontium	0.589	0.333	1.165	0.482	0.640

ppm = parts per million

VOLATILE ORGANIC CHEMICALS, [VOC] including THMs, ppb	<0.50	4.024	<0.50	4.72	21.057
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TOTAL TRIHALOGENATED METHANES (THMs) ppb 21.057

Note: THMs are created when chlorine reacts with natural organics.

ppb = parts per billion

Not detected for flushed samples: Aluminum, Antimony, Arsenic, Beryllium, Cadmium, Chromium, Copper, Cobalt, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Titanium, Vanadium, Zinc, Nitrogen/Phosphorus Pesticides, Acid Extractable & Base Neutral Compounds, Alpha Radiation.

Lead and copper were not detected in most of the samples collected at residences in 2017. During the most recent Lead and Copper Rule compliance period (2017) ninety (90%) of the samples collected in "worst case scenario" (not flushed) were below 4.8 ug/L for lead, and below 60 ug/L for copper. All of the samples were below the lead action level, 15 ug/l.

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