



## City of Lawton Water Treatment Plant

Medicine Park Water Plant  
P.O. Box 247  
Medicine Park, OK 73557  
Telephone: (580) 529-2703  
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Southeast Water Plant  
4596 SE 15<sup>TH</sup>  
Lawton, OK 73501  
Telephone: (580) 581-3532  
Fax: (580) 581-3579

Dear water system owner/operator:

The following results are from analytical testing conducted on the finished water for the Lawton Water Treatment Plants at both the Medicine Park and the Southeast locations. These results are contaminants detected for the 2017 calendar year. This information should be used to publish your annual Consumer Confidence or Water Quality Report (if required) to comply with EPA 40 CFR 141 and 142. If you have any questions please call (580) 529-2703.

### Medicine Park

<i>Microbiological Contaminants</i>				
Analysis	Date	Concentration	Max. Contaminant Level (MCL)	Information source
Total Organic Carbon (TOC)	Analyzed Monthly (Running Average)	2.53 mg/L 39% Avg. Removal	-	Accurate Environmental Laboratories
Turbidity (highest single measurement)	1/10/2017	0.15 NTU	TT = 1.0 NTU	City of Lawton MP Laboratory
<i>Inorganic Contaminants</i>				
Analysis	Date	Concentration	Max. Contaminant Level (MCL)	Information source
Antimony	5/21/2012	< 2.0 µg/L	6.0 µg/L	State Environmental Lab - ODEQ
Arsenic	5/21/2012	<2.0 µg/L	10.0 µg/L	State Environmental Lab - ODEQ
Barium	5/21/2012	111 µg/L	2000 µg/L	State Environmental Lab - ODEQ
Beryllium	5/21/2012	< 2.0 µg/L	4.0 µg/L	State Environmental Lab - ODEQ
Bromate	Monthly (Running Average)	2.81 µg/L	10 µg/L	Accurate Environmental Laboratories
Cadmium	5/21/2012	< 2.0 µg/L	5.0 µg/L	State Environmental Lab - ODEQ
Chromium	5/21/2012	< 10 µg/L	100 µg/L	State Environmental Lab - ODEQ
Fluoride	1/9/2017	0.70 mg/L	4.0 mg/L	State Environmental Lab - ODEQ
Mercury	5/21/2012	< 0.05 µg/L	2 µg/L	State Environmental Lab - ODEQ
Nitrate/Nitrite as Nitrogen	2/7/2017	0.34 mg/L	10 mg/L	State Environmental Lab - ODEQ
Selenium	5/21/2012	< 10 µg/L	50 µg/L	State Environmental Lab - ODEQ
Sodium	5/21/2012	49.9 mg/L	No Limit	State Environmental Lab - ODEQ
Thallium	5/21/2012	< 1.0 µg/L	2 µg/L	State Environmental Lab - ODEQ
<i>Radiochemical Contaminants</i>				
Analysis	Date	Concentration	Max. Contaminant Level (MCL)	Information source
Gross Alpha	2015	< 0.518 pCi/L	15 pCi/L	Accurate Environmental Laboratories
Gross Beta		3.54 pCi/L	50 pCi/L	Accurate Environmental Laboratories
Combined Radium 226 & 228	2015	0.027 pCi/L	5 pCi/L	Accurate Environmental Laboratories
Uranium		< 1.0 µg/L	30 µg/L	Accurate Environmental Laboratories
<i>Volatile Organic Contaminants</i>				
Analysis	Date	Concentration	Max. Contaminant Level (MCL)	Information source
Benzene		< 0.5 µg/L	5 µg/L	Accurate Environmental Laboratories
Carbon Tetrachloride		< 0.5 µg/L	5 µg/L	Accurate Environmental Laboratories
Chlorobenzene		< 0.5 µg/L	100 µg/L	Accurate Environmental Laboratories

1,2-Dichloroethane	3/15/17	< 0.5 µg/L	5 µg/L	Accurate Environmental Laboratories
1,2-Dichloropropane		< 0.5 µg/L	5 µg/L	Accurate Environmental Laboratories
Ethylbenzene		< 0.5 µg/L	700 µg/L	Accurate Environmental Laboratories
Styrene		< 0.5 µg/L	100 µg/L	Accurate Environmental Laboratories
Toluene		< 0.5 µg/L	1000 µg/L	Accurate Environmental Laboratories
1,1,1-Trichloroethane		< 0.5 µg/L	200 µg/L	Accurate Environmental Laboratories
1,1,2-Trichloroethane		< 0.5 µg/L	5 µg/L	Accurate Environmental Laboratories
1,2,4-Trichlorobenzene		< 0.5 µg/L	70 µg/L	Accurate Environmental Laboratories
Vinyl Chloride		< 0.5 µg/L	2 µg/L	Accurate Environmental Laboratories
Xylenes		< 0.5 µg/L	10000 µg/L	Accurate Environmental Laboratories

**LT 2 - Lake Lawtonka (Raw Water)**  
**(Long Term 2 - Enhanced Surface Water Treatment Rule)**  
*\*Sampling completed September 2017*

Analysis	Date	Concentration	Minimun Detection	Information source
<i>Cryptosporidium</i>	None	0 oocysts/L	0 oocysts/L	Accurate Environmental Laboratories
<i>E. Coli</i>	3/10/2017	5.41 MPN/100mL	1.0 MPN/100mL	Accurate Environmental Laboratories
<i>Giardia</i>	None	0 cysts/L	0 cysts/L	Accurate Environmental Laboratories
Turbidity (highest single measurement)	3/10/2017	7.97 NTU	0.10 NTU	Accurate Environmental Laboratories

**Southeast Water Treatment Plant**

<b>Microbiological contaminants</b>				
Analysis	Date	Concentration	Max. Contaminant	Information source
Total Organic Carbon (TOC)	Analyzed Monthly (Running Average)	3.07 mg/L 37% Avg. Removal	-	Accurate Environmental Laboratories
Turbidity (highest single measurement)	12/20/2017	0.14 NTU	TT = 1.0 NTU	City of Lawton SE Laboratory

<b>Inorganic Contaminants</b>				
Analysis	Date	Concentration	Max. Contaminant	Information source
Antimony	6/24/2015	< 2.0 µg/L	6.0 µg/L	State Environmental Lab - ODEQ
Arsenic	6/24/2015	< 2.0 µg/L	10.0 µg/L	State Environmental Lab - ODEQ
Barium	6/24/2015	142 µg/L	2000 µg/L	State Environmental Lab - ODEQ
Beryllium	6/24/2015	< 2.0 µg/L	4.0 µg/L	State Environmental Lab - ODEQ
Bromate	Monthly (Running Average)	0.00 µg/L	10 µg/L	Accurate Environmental Laboratories
Cadmium	6/24/2015	< 2.0 µg/L	5.0 µg/L	State Environmental Lab - ODEQ
Chromium	6/24/2015	< 5.0 µg/L	100 µg/L	State Environmental Lab - ODEQ
Fluoride	6/24/2015	< 0.20 mg/L	4.0 mg/L	State Environmental Lab - ODEQ
Mercury	6/24/2015	< 0.05 µg/L	2 µg/L	State Environmental Lab - ODEQ
Nitrate/Nitrite as Nitrogen	2/7/2017	0.24 mg/L	10 mg/L	State Environmental Lab - ODEQ
Sodium	6/24/2015	71.6 mg/L	No limit	State Environmental Lab - ODEQ
Thallium	6/24/2015	< 1.0 µg/L	2 µg/L	State Environmental Lab - ODEQ

<b>Radiochemical Contaminants</b>				
Analysis	Date	Concentration	Max. Contaminant	Information source
Gross Alpha	2015	1.70 pCi/L	15 pCi/L	Accurate Environmental Laboratories
Gross Beta		1.59 pCi/L	50 pCi/L	Accurate Environmental Laboratories
Combined Radium 226 & 228		0.097 pCi/L	5 pCi/L	Accurate Environmental Laboratories
Uranium		< 1.0 µg/L	30 µg/L	Accurate Environmental Laboratories

<b>Volatile Organic Contaminants</b>				
Analysis	Date	Concentration	Max. Contaminant	Information source
Benzene		< 0.5 µg/L	5 µg/L	State Environmental Lab - ODEQ
Carbon Tetrachloride		< 0.5 µg/L	5 µg/L	State Environmental Lab - ODEQ
Chlorobenzene		< 0.5 µg/L	100 µg/L	State Environmental Lab - ODEQ

1,2-Dichloroethane	3/15/17	< 0.5 µg/L	5 µg/L	State Environmental Lab - ODEQ
1,2-Dichloropropane		< 0.5 µg/L	5 µg/L	State Environmental Lab - ODEQ
Ethylbenzene		< 0.5 µg/L	700 µg/L	State Environmental Lab - ODEQ
Styrene		< 0.5 µg/L	100 µg/L	State Environmental Lab - ODEQ
Toluene		< 0.5 µg/L	1000 µg/L	State Environmental Lab - ODEQ
1,1,1-Trichloroethane		< 0.5 µg/L	200 µg/L	State Environmental Lab - ODEQ
1,1,2-Trichloroethane		< 0.5 µg/L	5 µg/L	State Environmental Lab - ODEQ
1,2,4-Trichlorobenzene		< 0.5 µg/L	70 µg/L	State Environmental Lab - ODEQ
Vinyl Chloride		< 0.5 µg/L	2 µg/L	State Environmental Lab - ODEQ
Xylenes		< 0.5 µg/L	10000 µg/L	State Environmental Lab - ODEQ

**LT 2 - Lake Ellsworth & Waurika (Raw Water)**  
**(Long Term 2 - Enhanced Surface Water Treatment Rule)**  
 \*Sampling completed September 2017

Analysis	Date	Concentration	Minimum Detection	Information source
<i>Cryptosporidium</i>	None	0 oocysts/L	0 oocysts/L	Accurate Environmental Laboratories
<i>E. Coli</i>	None	0.00 MPN/100mL None Detected	1.0 MPN/100mL	Accurate Environmental Laboratories
<i>Giardia</i>	None	0 cysts/L	0 cysts/L	Accurate Environmental Laboratories
Turbidity (highest single measurement)	5/7/17 *Lake Waurika	34.7 NTU	0.10 NTU	Accurate Environmental Laboratories

**Distribution Testing**

Analysis	Date	Concentration	Max. Contaminant	Information source
Total Coliform Bacteria (highest # of samples in a single month)	September 104 Samples	0 positive 0.00%	5% positive	City of Lawton WTP Laboratory
Fecal coliform Bacteria	N/A	0 positive	N/A	City of Lawton WTP Laboratory
Chlorite (highest monthly average)	9/13/2017	<0.040 mg/L Range (ND to 0.083)	1000 µg/L	Accurate Environmental Laboratories
Copper	2015	0.0109 mg/L	1.3 mg/L	Accurate Environmental Laboratories
Lead	2015	0.357 µg/L	15 µg/L	Accurate Environmental Laboratories
TTHMs	LRAA 9/5/17	14.18 µg/L Range (8.72 µg/L to 25.3 µg/L)	80 µg/L	Accurate Environmental Laboratories
HAA5	LRAA 9/5/17	7.47 µg/L Range (4.74 µg/L to 15.5 µg/L)	60 µg/L	Accurate Environmental Laboratories

\*LRAA - Locational Running Annual Averages

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 City of Lawton Water Treatment Plant Laboratory