



## EM Johnson WTP Monthly Water Quality Report July 2021

Parameter	Plant Tap	Primary MCL **	Secondary MCL **
Temperature, °C	27.1		
Color, units	0.0		<b>15</b>
pH, units	8.4		<b>6.5 - 8.5</b>
Free Carbon Dioxide, mg/l	0.23		
Total Alkalinity, mg/l as CaCO <sub>3</sub>	28.6		
Total Hardness, mg/l as CaCO <sub>3</sub>	25.8		
Total Dissolved Solids, mg/l	97		
Specific Conductivity, uS/cm	198		
Iron, mg/l	<0.10		<b>0.3</b>
Manganese, mg/l	<0.01		<b>0.05</b>
Fluoride, mg/l	0.68	<b>4</b>	<b>2</b>
Chloride, mg/l	12.1		
Ammonia, mg/l as N	0.59		
Nitrate, mg/l as N	0.07	<b>10</b>	
Silica, mg/l as SiO <sub>3</sub>	6.5		
Total Coliform Bacteria*	Absent	<b>0</b>	
E. Coli	Absent	<b>0</b>	
Total Trihalomethanes, mg/l	0.0174	<b>0.080</b>	

\* In 95% of samples collected

\*\*MCL = Maximum Contaminant Level

Certified By: Vannessa Barnes

Vannessa Barnes, Laboratory Scientist Supervisor

NC Lab ID Number 37604

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*Raleigh Water: Serving the people of Garner, Knightdale, Raleigh, Rolesville,  
Wake Forest, Wendell, and Zebulon areas.*

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## EM Johnson WTP Water Quality Report 2021 Plant Tap Summary

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
Temperature, °C	9.1	10.2	12.1	16.7	20.8	24.7	27.1						17.2
Color, units	0.5	0.8	0.8	0	1.5	1.4	0						0.7
pH, units	8.5	8.5	8.4	8.4	8.4	8.4	8.4						8.4
Free Carbon Dioxide, mg/l	0.14	0.14	0.15	0.16	0.18	0.21	0.23						0.17
Total Alkalinity, mg/l as CaCO <sub>3</sub>	20.9	19.9	20.7	21.1	23.7	26.6	28.6						23.1
Total Hardness, mg/l as CaCO <sub>3</sub>	21	22	19.8	21.4	24.2	25.7	25.8						22.8
Total Dissolved Solids, mg/l	123	127	92	89	89	94	97						102
Specific Conductivity, uS/cm	186	191	187	181	187	192	198						189
Iron, mg/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10						<0.10
Manganese, mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						<0.01
Fluoride, mg/l	0.57	0.67	0.68	0.68	0.70	0.75	0.68						0.68
Chloride, mg/l	10.2	9.0	8.7	7.9	10.5	10.9	12.1						9.9
Ammonia, mg/l as N	0.56	0.58	***	0.47	0.51	0.64	0.59						0.6
Nitrate, mg/l as N	0.24	0.29	0.29	0.11	0.08	0.06	0.07						0.16
Silica, mg/l as SiO <sub>3</sub>	8.60	8.4	8.60	8.00	7.10	6.7	6.50						7.70
Total Coliform Bacteria	Absent	Absent	Absent	Absent	Absent	Absent	Absent						<b>Absent</b>
E. Coli	Absent	Absent	Absent	Absent	Absent	Absent	Absent						<b>Absent</b>
Total Trihalomethanes, mg/l	0.0046	0.0048	0.0049	0.0119	0.0115	0.0144	0.0174						0.0099

\*\*\*Chlorine Burnout, no ammonia added

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