



## EM Johnson WTP Monthly Water Quality Report November 2020

Parameter	Plant Tap	Primary MCL **	Secondary MCL **
Temperature, °C	18.0		
Color, units	1.3		15
pH, units	8.4		6.5 - 8.5
Free Carbon Dioxide, mg/l	0.23		
Total Alkalinity, mg/l as CaCO <sub>3</sub>	27.4		
Total Hardness, mg/l as CaCO <sub>3</sub>	24.0		
Total Dissolved Solids, mg/l	126		
Specific Conductivity, uS/cm	188		
Iron, mg/l	<0.10		0.3
Manganese, mg/l	<0.01		0.05
Fluoride, mg/l	0.59		4
Chloride, mg/l	11.6		
Ammonia, mg/l as N	0.55		
Nitrate, mg/l as N	0.15	10	
Silica, mg/l as SiO <sub>2</sub>	8.90		
Total Coliform Bacteria*	Absent	0	
E. Coli	Absent	0	
Total Trihalomethanes, mg/l	0.012	0.080	

\* In 95% of samples collected

\*\*MCL = Maximum Contaminant Level

Certified By: Vannessa Barnes  
Vannessa Barnes, Laboratory Scientist  
Supervisor  
NC Lab ID Number 37604

---

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

One Exchange Plaza Building | 1 Exchange Plaza | Suite 600 | Raleigh, North Carolina 27601  
City of Raleigh (mailing address) | Post Office Box 590 | Raleigh, North Carolina 27602-0590

## EM Johnson WTP Water Quality Report 2020 Plant Tap Summary

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
Temperature, °C	11.6	11.6	14.1	18.5	20.7	25.0	29.5	29.3	26.1	21.8	18.0		20.6
Color, units	1	0.5	0.2	0.8	1.3	0.2	1	0.3	2.8	0.0	1.3		0.9
pH, units	8.4	8.4	8.4	8.4	8.4	8.5	8.4	8.4	8.4	8.4	8.4		8.4
Free Carbon Dioxide, mg/l	0.22	0.22	0.18	0.15	0.19	0.16	0.19	0.19	0.22	0.23	0.23		0.20
Total Alkalinity, mg/l as CaCO <sub>3</sub>	30.8	27.4	23.6	21.5	23.6	23.9	25.1	26.5	28.7	30.5	27.4		26.3
Total Hardness, mg/l as CaCO <sub>3</sub>	27.1	26.3	20.8	21.8	24.9	23.3	24.3	23.4	23.7	23	24		23.9
Total Dissolved Solids, mg/l	137	139	126	117	122	121	123	127	126	128	126		127
Specific Conductivity, uS/cm	206	210	192	175	182	182	188	190	185	194	188		190
Iron, mg/l	0.01	0.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10		0.01
Manganese, mg/l	<0.01	0.01	0.01	0.01	0.01	0.01	0.010	0.01	0.01	<0.01	<0.01		<0.01
Fluoride, mg/l	0.82	0.78	0.78	0.73	0.75	0.52	0.74	0.75	0.35	0.61	0.59		0.67
Chloride, mg/l	12.6	13.5	10.5	10.1	11.1	11.2	11.8	11.6	11.4	11.7	11.6		11.6
Ammonia, mg/l as N	0.53	0.54	***	0.50	0.57	0.61	0.54	0.52	0.56	0.54	0.55		0.5
Nitrate, mg/l as N	0.29	0.17	<0.10	0.10	0.05	0.08	0.09	0.09	0.08	0.11	0.15		0.12
Silica, mg/l as SiO <sub>2</sub>	9.40	8.3	8.90	8.10	7.00	6.80	7.60	8.1	6.50	8.90	8.90		8.05
Total Coliform Bacteria*	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent		Absent
E. Coli	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent		Absent
Total Trihalomethanes, mg/l	0.0145	0.0249	0.0096	0.0200	0.017	0.0179	0.028	0.036	0.0280	0.028	0.012		0.0214

\* In 95% of samples collected

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

Fluoride Shut Off Sept 11th - Sept 30th

Certified By: Vannessa Barnes

Vannessa Barnes, Laboratory Scientist Supervisor

NC Lab ID Number 37604