



EM Johnson WTP Monthly Water Quality Report September 2020

Parameter	Plant Tap	Primary MCL **	Secondary MCL**
Temperature, °C	26.1		
Color, units	2.8		15
pH, units	8.4		6.5 - 8.5
Free Carbon Dioxide, mg/l	0.22		
Total Alkalinity, mg/l as CaCO ₃	28.7		
Total Hardness, mg/l as CaCO ₃	23.7		
Total Dissolved Solids, mg/l	126		
Specific Conductivity, uS/cm	185		
Iron, mg/l	<0.10		0.3
Manganese, mg/l	0.01		0.05
Fluoride, mg/l	0.35		4
Chloride, mg/l	11.4		
Ammonia, mg/l as N	0.56		
Nitrate, mg/l as N	0.08	10	
Silica, mg/l as SiO ₂	6.50		
Total Coliform Bacteria*	Absent	0	
E. Coli	Absent	0	
Total Trihalomethanes, mg/l	0.028	0.080	

* In 95% of samples collected

**MCL = Maximum Contaminant Level

Fluoride Shut Off Sept 11th – Sept 30th

Certified By:

Vannessa Barnes

Vannessa Barnes, Laboratory Scientist
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NC Lab ID Number 37804

*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 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				20.7
Color, units	1	0.5	0.2	0.8	1.3	0.2	1	0.3	2.8				0.9
pH, units	8.4	8.4	8.4	8.4	8.4	8.5	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				0.19
Total Alkalinity, mg/l as CaCO ₃	30.8	27.4	23.6	21.5	23.6	23.9	25.1	26.5	28.7				25.7
Total Hardness, mg/l as CaCO ₃	27.1	26.3	20.8	21.8	24.9	23.3	24.3	23.4	23.7				24.0
Total Dissolved Solids, mg/l	137	139	126	117	122	121	123	127	126				126
Specific Conductivity, uS/cm	206	210	192	175	182	182	188	190	185				190
Iron, mg/l	0.01	0.00	<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
Fluoride, mg/l	0.82	0.78	0.78	0.73	0.75	0.52	0.74	0.75	0.35				0.69
Chloride, mg/l	12.6	13.5	10.5	10.1	11.1	11.2	11.8	11.6	11.4				11.5
Ammonia, mg/l as N	0.53	0.54	***	0.50	0.57	0.61	0.54	0.52	0.56				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				0.12
Silica, mg/l as SiO ₂	9.40	8.3	8.90	8.10	7.00	6.80	7.60	8.1	6.50				7.86
Total Coliform Bacteria*	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent				Absent
E. Coli	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				0.0217

* In 95% of samples collected

**Chlorine Burnout, no ammonia added
Fluoride Shut Off Sept 11th - Sept 30th

Certified By: Vannessa Barnes

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