



EM Johnson WTP Monthly Finished Water Quality Report September 2025

Parameter	Plant Tap	Primary MCL **	Secondary MCL **
Temperature, °C	26.9		
Color, units	0.0		15
pH, units	8.38		6.5 - 8.5
Free Carbon Dioxide, mg/l	0.20		
Total Alkalinity, mg/l as CaCO ₃	23.5		
Total Hardness, mg/l as CaCO ₃	24.6		
Specific Conductivity, uS/cm	165		
Iron, mg/l	<0.10		0.3
Manganese, mg/l	<0.01		0.05
Fluoride, mg/l	0.77	4	2
Chloride, mg/l	10.4		250
Ammonia, mg/l as N	0.520		
Nitrate, mg/l as N	0.051	10	
Silica, mg/l as SiO ₃	8.79		
Total Coliform Bacteria*	Absent	0	
E. Coli	Absent	0	
Total Trihalomethanes, mg/l	0.023	0.080	

* In 95% of samples collected

**MCL = Maximum Contaminant Level

***Chlorine Burnout, no ammonia added

Certified By: Martesa Webb

Martesa Webb, 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 Finished Water Quality Report 2025 Plant Tap Summary

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
Temperature, °C	12.2	14.0	17.2	22.9	26.2	28.9	30.8	28.7	26.9				23.1
Color, units	1.3	0.0	0.0	0.6	0.0	0.0	1.4	0.0	0.0				0.4
pH, units	8.4	8.4	8.3	8.4	8.4	8.4	8.4	8.4	8.4				8.4
Free Carbon Dioxide, mg/l	0.17	0.17	0.23	0.20	0.20	0.23	0.21	0.21	0.20				0.20
Total Alkalinity, mg/l as CaCO ₃	21.3	21.0	24.7	24.2	24.0	26.7	26.9	23.7	23.5				24.0
Total Hardness, mg/l as CaCO ₃	22.8	23.4	25.7	25.1	28.1	30.2	30.5	23.5	24.6				26.0
Specific Conductivity, uS/cm	176	176.5	194.1	192	182	192	190	167	165				182
Iron, mg/l	<0.10	<0.10	<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	<0.01				<0.01
Fluoride, mg/l	0.62	0.42	0.73	0.74	0.67	0.69	0.66	0.70	0.77				0.67
Chloride, mg/l	10.0	10.2	13.0	13.7	14.2	14.7	14.1	10.7	10.4				12.3
Ammonia, mg/l as N	0.63	0.50	***	0.59	0.42	0.44	0.65	0.43	0.52				0.52
Nitrate, mg/l as N	0.22	0.22	0.15	0.05	0.06	0.05	0.06	0.099	0.05				0.11
Silica, mg/l as SiO ₃	9.58	7.90	7.30	6.60	5.50	5.00	6.70	7.70	8.79				7.23
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	0.011	0.013	0.010	0.011	0.011	0.016	0.029	0.027	0.023				0.017

***Chlorine Burnout, no ammonia added

Certified By: Martesa Webb

Martesa Webb, Laboratory Scientist Supervisor

NC Lab ID Number 37604