



EM Johnson WTP Monthly Finished Water Quality Report July 2023

Parameter	Plant Tap	Primary MCL **	Secondary MCL **
Temperature, °C	29.2		
Color, units	0.0		15
pH, units	8.4		6.5 - 8.5
Free Carbon Dioxide, mg/l	0.23		
Total Alkalinity, mg/l as CaCO ₃	28.1		
Total Hardness, mg/l as CaCO ₃	26.7		
Total Dissolved Solids, mg/l	94		500
Specific Conductivity, uS/cm	193		
Iron, mg/l	<0.10		0.3
Manganese, mg/l	<0.01		0.05
Fluoride, mg/l	0.80	4	2
Chloride, mg/l	11.4		250
Ammonia, mg/l as N	0.74		
Nitrate, mg/l as N	0.05	10	
Silica, mg/l as SiO ₃	6.0		
Total Coliform Bacteria*	Absent	0	
E. Coli	Absent	0	
Total Trihalomethanes, mg/l	0.0281	0.080	

* In 95% of samples collected

**MCL = Maximum Contaminant Level

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.*

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EM Johnson WTP Finished Water Quality Report 2023 Plant Tap Summary

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
Temperature, °C	10.1	11.8	14.7	18.8	21.8	24.7	29.2						18.7
Color, units	0.0	1.0	0.5	0.0	0.0	0.0	0						0.2
pH, units	8.4	8.4	8.4	8.4	8.4	8.4	8.4						8.4
Free Carbon Dioxide, mg/l	0.24	0.24	0.23	0.20	0.23	0.21	0.23						0.23
Total Alkalinity, mg/l as CaCO ₃	30.0	30.7	28.6	26.3	26.6	27.5	28.1						28.3
Total Hardness, mg/l as CaCO ₃	27.8	29.3	28.9	28.9	25.3	28	26.7						27.8
Total Dissolved Solids, mg/l	103	109	104	99	94	96	94						100
Specific Conductivity, uS/cm	210	223	213	203	192	197	193						204
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	0.73	0.74	0.74	0.70	0.73	0.73	0.80						0.74
Chloride, mg/l	15.0	14.9	14.5	12.7	11.2	11.2	11.4						13.0
Ammonia, mg/l as N	0.52	0.47	***	0.39	0.55	0.53	0.74						0.5
Nitrate, mg/l as N	0.23	0.13	0.11	0.07	0.04	0.04	0.05						0.10
Silica, mg/l as SiO ₃	8.30	7.80	7.90	6.00	5.40	6.00	6.00						6.77
Total Coliform Bacteria	Absent	Absent	Absent	Absent	Absent	Absent	Absent						Absent
E. Coli	Absent	Absent	Absent	Absent	Absent	Absent	Absent						Absent
Total Trihalomethanes, mg/l	0.013	0.0057	0.0296	0.0196	0.0130	0.0155	0.0281						0.0178

***Chlorine Burnout, no ammonia added

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