



EM Johnson WTP Monthly Finished Water Quality Report October 2023

Parameter	Plant Tap	Primary MCL **	Secondary MCL **
Temperature, °C	21.5		
Color, units	0.0		15
pH, units	8.4		6.5 - 8.5
Free Carbon Dioxide, mg/l	0.27		
Total Alkalinity, mg/l as CaCO ₃	35.8		
Total Hardness, mg/l as CaCO ₃	28.6		
Total Dissolved Solids, mg/l	106		500
Specific Conductivity, uS/cm	215		
Iron, mg/l	<0.10		0.3
Manganese, mg/l	<0.01		0.05
Fluoride, mg/l	0.74	4	2
Chloride, mg/l	11.4		250
Ammonia, mg/l as N	0.82		
Nitrate, mg/l as N	0.06	10	
Silica, mg/l as SiO ₃	7.4		
Total Coliform Bacteria*	Absent	0	
E. Coli	Absent	0	
Total Trihalomethanes, mg/l	0.0124	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	29.4	26.9	21.5			20.9
Color, units	0.0	1.0	0.5	0.0	0.0	0.0	0.0	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	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	0.27	0.27			0.24
Total Alkalinity, mg/l as CaCO ₃	30.0	30.7	28.6	26.3	26.6	27.5	28.1	28.9	32.1	35.8			29.5
Total Hardness, mg/l as CaCO ₃	27.8	29.3	28.9	28.9	25.3	28.0	26.7	26.7	26.1	28.6			27.6
Total Dissolved Solids, mg/l	103	109	104	99	94	96	94	105	109	106			102
Specific Conductivity, uS/cm	210	223	213	203	192	197	193	214	223	215			208
Iron, mg/l	<0.10	<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			<0.01
Fluoride, mg/l	0.73	0.74	0.74	0.70	0.73	0.73	0.80	0.78	0.78	0.74			0.75
Chloride, mg/l	15.0	14.9	14.5	12.7	11.2	11.2	11.4	11.5	11.3	11.4			12.5
Ammonia, mg/l as N	0.52	0.47	***	0.39	0.55	0.53	0.74	0.91	0.59	0.82			0.6
Nitrate, mg/l as N	0.23	0.13	0.11	0.07	0.04	0.04	0.05	0.05	0.05	0.06			0.08
Silica, mg/l as SiO ₃	8.30	7.80	7.90	6.00	5.40	6.00	6.00	6.20	6.60	7.40			6.76
Total Coliform Bacteria	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent			Absent
E. Coli	Absent	Absent	Absent	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	0.041	0.0249	0.0124			0.0203

***Chlorine Burnout, no ammonia added

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