



EM Johnson WTP Monthly Finished Water Quality Report October 2022

Parameter	Plant Tap	Primary MCL **	Secondary MCL **
Temperature, °C	20.8		
Color, units	0.0		15
pH, units	8.4		6.5 - 8.5
Free Carbon Dioxide, mg/l	0.31		
Total Alkalinity, mg/l as CaCO ₃	35.7		
Total Hardness, mg/l as CaCO ₃	31.1		
Total Dissolved Solids, mg/l	106		500
Specific Conductivity, uS/cm	216		
Iron, mg/l	<0.10		0.3
Manganese, mg/l	<0.01		0.05
Fluoride, mg/l	0.73	4	2
Chloride, mg/l	14.4		250
Ammonia, mg/l as N	0.49		
Nitrate, mg/l as N	0.08	10	
Silica, mg/l as SiO ₃	5.90		
Total Coliform Bacteria*	Absent	0	
E. Coli	Absent	0	
Total Trihalomethanes, mg/l	0.0183	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 2022 Plant Tap Summary

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
Temperature, °C	11.7	8.40	13.9	19.9	22.3	27.5	26.8	28.4	27.2	20.8			20.7
Color, units	1.0	0.5	1.2	0	0.4	0.5	0.3	1.2	0	0.0			0.5
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	0.23	0.22	0.23	0.22	0.22	0.22	0.21	0.23	0.25	0.31			0.23
Total Alkalinity, mg/l as CaCO ₃	30.6	27.6	28.6	27.8	27.2	28.5	28.5	28.8	31.9	35.7			29.5
Total Hardness, mg/l as CaCO ₃	27.6	27.9	27.9	26.9	27.4	28.3	27.3	26.9	28.1	31.1			27.9
Total Dissolved Solids, mg/l	97	102	109	118	108	105	102	100	89	106			104
Specific Conductivity, uS/cm	199	208	223	239	221	214	209	205	182	216			212
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	0.62	0.73	0.71	0.69	0.66	0.68	0.70	0.68	0.76	0.73			0.70
Chloride, mg/l	17.4	14.5	15.2	18.0	16.2	14.6	14.3	14.2	14.6	14.4			15.3
Ammonia, mg/l as N	0.60	0.57	***	0.49	0.52	0.49	0.53	0.6	0.52	0.49			0.5
Nitrate, mg/l as N	0.24	0.21	0.08	0.08	0.09	0.06	0.07	0.05	0.06	0.08			0.10
Silica, mg/l as SiO ₃	6.10	7.10	4.50	1.90	2.10	2.90	3.70	4.5	5.20	5.90			4.39
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	0.0056	0.0136	0.0060	0.0110	0.0122	0.0187	0.021	0.032	0.0228	0.0183			0.0161

***Chlorine Burnout, no ammonia added

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