

**CITY OF LAKELAND
WATER UTILITIES
WILLIAMS WATER TREATMENT PLANT
CHEMICAL ANALYSIS YEARLY AVERAGE - 2009**

<u>Parameter</u>	<u>Raw Water</u>	<u>Finished Water</u>
Total Hardness (as CaCO ₃)	150	129
Calcium Hardness (as CaCO ₃)	109	96
Magnesium Hardness (as CaCO ₃)	41	33
P. Alkalinity (as CaCO ₃)	-	0
Total Alkalinity (as CaCO ₃)	146	112
Free Chlorine	-	1.85
Total Chlorine	-	2.00
Chlorides	13.7	21.0
Ammonia (as N)	0.38	0.03
Turbidity (NTU)	0.18	0.25
Color (Units)	4	2
Temperature (° C)(Lab)	24.8	25.5
pH (Units)	7.81	7.95
Sulfide	1.4	0.0
Iron	0.009	0.009
Fluoride	0.25	0.78
Phosphate (as P)	0.06	0.06
Silica	16.6	15.3
Sulfate	2.9	3.4
Total Dissolved Solids	183	167
Nitrate (as N)	0.02	0.01
Specific Conductance (µmhos/cm)	299	270
Saturation Index	-	0.19
Carbon Dioxide	3.7	-

Results in milligrams/Liter except as noted