

KINGBROOK RURAL WATER SYSTEM, INC.
WATER QUALITY ANALYSIS

	PHASE I-Bruce WTP (test results 6-2019)		PHASE II-DeSmet WTP (test results 6-2019)		PHASE III-Chester WTP (test results 2021)		SUGGESTED LIMITS
Nitrate	1.4	mg/L	<0.2	mg/L	<0.2	mg/L	10 mg/L
Fluoride	0.77	mg/L	0.58	mg/L	0.55	mg/L	4.0 mg/L
Chloride	12.6	mg/L	16.5	mg/L	17	mg/L	250 mg/L
Iron, Total	<0.05	mg/L	0.05	mg/L	<0.05	mg/L	0.3 mg/L
Manganese	<0.05	mg/L	<0.05	mg/L	0.05	mg/L	0.05 mg/L
Sulfate	129	mg/L	256	mg/L	283	mg/L	levels >250 mg/L may have bitter taste
Solids, Total Dissolved	512	mg/L	695	mg/L	682	mg/L	4000 mg/L
pH	8.02	pH	7.79	pH	7.54	pH	between 6.5 - 8.5
Alkalinity-M	264	mg/L	273	mg/L	260	mg/L	no rec. standard set
Alkalinity-P	0	mg/L	0	mg/L	0	mg/L	no rec. standard set
Bicarbonate	322	mg/L	330	mg/L	311	mg/L	no rec. standard set
Carbonate	0	mg/L	0	mg/L	0	mg/L	no rec. standard set
Conductivity	752	umho/cm	988	umho/cm	978	umho/cm	2000 umho/cm
Calcium	96.5	mg/L	131	mg/L	119	mg/L	no rec. standard set
Magnesium	33.7	mg/L	47.3	mg/L	55.0	mg/L	1000 mg/L
Hardness (calcium)	22	grains	30	grains	27	grains	see chart
Langlier Index	(+)0.88		(+)0.77		(+)1.19		(+)deposit forming, (-) corrosive
Sodium	10.6	mg/L	15.8	mg/L	23.2	mg/L	**no rec. standard set
Potassium	2.7	mg/L	5.8	mg/L	7.3	mg/L	2000 mg/L

** sodium has no recommended EPA standard, however; individuals on a low-salt diet should use 25.0 mg/L or less as a guideline
water samples for the above common ions are taken and analyzed by the Dept. Of Env. & Nat'l Resources once every three years
updated 3-8-2021



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grains= divide by 17.1