

Water Treatment Plant Monthly Water Quality Sampling

May 2015

Parameter	Laboratory	Units	# of Samples	Minimum	Maximum	Average
Free Chlorine (Finished)	Grab sample	mg/l	30	0.66	1.22	0.90
Free Chlorine (Finished)	SCADA	mg/l	3	0.68	1.33	0.92
Total Coliform (Finished)	Grab Sample	MPN	4	<2.0	<2.0	<2.0
Total Coliform (Finished)	Exova	MPN	1	<2.0	<2.0	<2.0
E.Coli (Finished)	Grab Sample	MPN	4	<2.0	<2.0	<2.0
E.Coli (Finished)	Exova	MPN	1	<1.0	<1.0	<1.0
Turbidity (Finished)	SCADA	NTU	31	0.04	0.07	0.05
Turbidity (finished)	Exova	NTU	1		.02	
UVT (RAW)	Grab Sample	%	31	66.3	73.4	69.1
UVT/UVA (Finished)	Grab Sample	%/	31	70.9/.130	81.4/.087	78.1/.107
UVT (Finished)	Exova	%	1	-	83.0	-

Definitions and why these parameters are important:

Free Chlorine: The quantity of chlorine remaining which was not been consumed in reactions with micro-organisms or organic matter.

Total Coliform: An indicator that the system is experiencing regrowth of bacteria infiltration of contaminant, or it has not been properly treated at the source.

E.Coli (Escherichia Coli): Indicates the presence of fecal contamination.

Turbidity: Suspension of particles in the water column (clay, silt, dissolved organic or inorganic matter)

UVT: The transmission of UV light through a water column. Metals in water are not visible with the human eye; however, they can have a negative impact on UVT if present.

UVA: Helpful in determining dissolved organic concentration in water, pH shows influence of this measurement