



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2017 TO 12/31/2017

Distribution Site Representing Griffith Treatment Plant

Date Report Generated: 5/09/2017

Parameter	MCL ¹	Units ²	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Quant Limit ³
Aggressive Index Number		Units	11	11	11	11	-	-	-	-	-	-	-	-	N/A
Alkalinity, Bicarbonate		mg/L	71	56	56	46	-	-	-	-	-	-	-	-	0
Alkalinity, Carbonate		mg/L	0	0	0	0	-	-	-	-	-	-	-	-	0
Alkalinity, Hydroxyl		mg/L	0	0	0	0	-	-	-	-	-	-	-	-	0
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	-	-	-	-	-	-	-	-	0
Alkalinity, Total		mg/L	71	56	56	46	-	-	-	-	-	-	-	-	0
Bromide		mg/L	0.02	0.02	0.02	0.01	-	-	-	-	-	-	-	-	0.01
Carbon Dioxide		mg/L	4	6	4	1	-	-	-	-	-	-	-	-	N/A
Chloride	250 S	mg/L	66.8	62.2	62.2	60.4	-	-	-	-	-	-	-	-	5.0
Chlorine, Free		mg/L	0.3	0.2	0.1	2.9	-	-	-	-	-	-	-	-	0.0
Chlorine, Total		mg/L	3.0	3.1	2.7	3.1	-	-	-	-	-	-	-	-	0.0
Color	15 S	Units	0	0	0	0	-	-	-	-	-	-	-	-	0
Dissolved Oxygen		mg/L	18.2	17.1	18.3	16.9	-	-	-	-	-	-	-	-	0.0
Fluoride	4.0/2.0 P/S	mg/L	0.6	0.6	0.6	0.7	-	-	-	-	-	-	-	-	0.2
Hardness, Calcium		mg/L	97	72	75	53	-	-	-	-	-	-	-	-	10
Hardness, Total		mg/L	123	97	98	74	-	-	-	-	-	-	-	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.66	0.71	0.61	BQL	-	-	-	-	-	-	-	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.68	1.13	1.17	0.87	-	-	-	-	-	-	-	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	BQL	BQL	BQL	-	-	-	-	-	-	-	-	0.01
pH	6.5 - 8.5 S	Units	7.5	7.3	7.5	7.8	-	-	-	-	-	-	-	-	N/A
Phosphate as Phosphorus		mg/L	0.41	0.45	0.45	0.47	-	-	-	-	-	-	-	-	0.10
Orthophosphate as PO ₄		mg/L	1.26	1.39	1.37	1.43	-	-	-	-	-	-	-	-	0.31
Solids, Total		mg/L	292	256	250	225	-	-	-	-	-	-	-	-	1
Solids, Total Dissolved	500 S	mg/L	-	235	264	181	-	-	-	-	-	-	-	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	-	-	-	-	-	-	-	-	1
Specific Conductivity		µmhos/cm	508	429	415	358	-	-	-	-	-	-	-	-	0
Sulfate	250 S	mg/L	61.6	39.9	37.2	23.8	-	-	-	-	-	-	-	-	5.0
Taste		Units	2	2	2	2	-	-	-	-	-	-	-	-	1
Temperature		°C	16.3	17.2	18.1	18.3	-	-	-	-	-	-	-	-	N/A
Threshold Odor Number	3 S	Units	7	7	1	7	-	-	-	-	-	-	-	-	0
Total Organic Carbon		mg/L	2.1	2.3	2.3	2.5	-	-	-	-	-	-	-	-	0.5
Turbidity	≤ 5 P	NTU	0.05	0.05	0.35	0.10	-	-	-	-	-	-	-	-	0.05

BQL = The lowest quantitation limit of all analyses for the particular parameter: Below Quantitation Limit

¹Environmental Protection Agency/Virginia Department of Health established levels for drinking water at points of entry to the water distribution system

P = Primary - enforceable, S = Secondary - non-enforceable, AL = Action Level on specific taps, MCL = Maximum Contaminant Level

²mg/L = milligrams per liter, µg/L = micrograms per liter, µmhos/cm = micromhos per centimeter, NTU = Nephelometric Turbidity Units

³Quant Limit = Quantitation Limit : lowest level of measurement, N/A = not applicable

- Not sampled

* Analysis pending



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Metal Analyses

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Parameter	MCL ¹	Units ²	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Quant Limit ³
Aluminum	50 - 200 S	µg/L	BQL	-	-	*	-	-	-	-	-	-	-	-	25.0
Antimony	6 P	µg/L	BQL	-	-	BQL	-	-	-	-	-	-	-	-	2.0
Arsenic	10 P	µg/L	BQL	-	-	BQL	-	-	-	-	-	-	-	-	2.0
Barium	2000 P	µg/L	36.3	-	-	BQL	-	-	-	-	-	-	-	-	25.0
Beryllium	4 P	µg/L	BQL	-	-	BQL	-	-	-	-	-	-	-	-	2.0
Cadmium	5 P	µg/L	BQL	-	-	BQL	-	-	-	-	-	-	-	-	2.0
Calcium		mg/L	38.8	-	-	21.4	-	-	-	-	-	-	-	-	1.0
Chromium	100 P	µg/L	BQL	-	-	BQL	-	-	-	-	-	-	-	-	5.0
Copper	1300 AL	µg/L	BQL	BQL	28.0	BQL	-	-	-	-	-	-	-	-	25.0
Iron	300 S	µg/L	BQL	BQL	50.3	BQL	-	-	-	-	-	-	-	-	25.0
Lead	15 AL	µg/L	BQL	-	-	BQL	-	-	-	-	-	-	-	-	2.0
Magnesium		mg/L	8.6	-	-	5.6	-	-	-	-	-	-	-	-	1.0
Manganese	50 S	µg/L	BQL	BQL	BQL	BQL	-	-	-	-	-	-	-	-	25.0
Mercury	2 P	µg/L	BQL	-	-	BQL	-	-	-	-	-	-	-	-	0.50
Nickel	100 P	µg/L	BQL	-	-	BQL	-	-	-	-	-	-	-	-	5.0
Potassium		mg/L	5.9	-	-	3.4	-	-	-	-	-	-	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	*	-	-	-	-	-	-	-	-	5.0
Silicon		mg/L	2.9	-	-	3.3	-	-	-	-	-	-	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	-	-	-	-	-	-	5.0
Sodium		mg/L	40.4	35.9	34.6	38.1	-	-	-	-	-	-	-	-	1.0
Thallium	2 P	µg/L	BQL	-	-	BQL	-	-	-	-	-	-	-	-	2.0
Zinc	5000 S	µg/L	BQL	-	-	BQL	-	-	-	-	-	-	-	-	25.0

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