



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2021 TO 12/31/2021

Distribution Site Representing Washington Aqueduct Service Area

Date Report Generated: 12/22/2021

Parameter	MCL ¹	Units ²	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Quant Limit ³
Aggressive Index Number		Units	-	-	11	13	11	12	12	12	12	12	11	-	N/A
Alkalinity, Bicarbonate		mg/L	-	-	48	118	71	84	90	88	68	102	86	-	0
Alkalinity, Carbonate		mg/L	-	-	0	0	0	0	0	0	0	0	0	-	0
Alkalinity, Hydroxyl		mg/L	-	-	0	0	0	0	0	0	0	0	0	-	0
Alkalinity, Phenolphthalein		mg/L	-	-	0	0	0	0	0	0	0	0	0	-	0
Alkalinity, Total		mg/L	-	-	48	118	71	84	90	88	68	102	86	-	0
Bromide		mg/L	-	-	BQL	0.02	BQL	BQL	BQL	0.01	BQL	0.01	0.01	-	0.01
Carbon Dioxide		mg/L	-	-	2	1	4	3	4	3	2	4	5	-	N/A
Chloride	250 S	mg/L	-	-	50.4	31.7	35.4	41.0	39.8	40.8	27.3	37.4	37.6	-	5.0
Chlorine, Free		mg/L	-	-	0.1	0.1	2.6	0.2	0.4	0.3	0.3	0.3	0.1	-	0.0
Chlorine, Total		mg/L	-	-	3.3	1.5	2.8	3.2	3.8	2.9	3.8	3.5	3.1	-	0.0
Color	15 S	Units	-	-	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	-	-	11.6	12.4	9.8	8.4	8.7	8.3	7.6	8.8	9.6	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	-	-	0.6	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.7	-	0.2
Hardness, Calcium		mg/L	-	-	62	124	81	95	98	92	89	106	95	-	10
Hardness, Total		mg/L	-	-	82	154	110	128	128	137	110	141	128	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	-	-	0.80	0.60	BQL	0.86	1.11	0.84	1.06	0.90	0.81	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	-	-	1.62	1.42	1.20	1.29	0.89	0.42	1.99	1.86	1.40	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	-	-	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.01
pH	6.5 - 8.5 S	Units	-	-	7.7	8.6	7.6	7.7	7.7	7.7	7.8	7.7	7.5	-	N/A
Phosphate as Phosphorous		mg/L	-	-	0.81	0.47	0.80	0.71	0.81	0.75	-	0.76	0.80	-	0.10
Orthophosphate as PO ₄		mg/L	-	-	2.48	1.43	2.45	2.18	2.46	2.30	-	2.33	2.44	-	0.31
Solids, Total		mg/L	-	-	192	258	206	224	242	254	174	209	251	-	1
Solids, Total Dissolved	500 S	mg/L	-	-	204	246	150	200	230	242	184	242	216	-	1
Solids, Total Suspended		mg/L	-	-	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	-	-	356	414	348	404	400	427	328	418	394	-	0
Sulfate	250 S	mg/L	-	-	33.7	36.5	33.7	37.7	39.8	56.1	45.4	38.1	40.7	-	5.0
Taste		Units	-	-	2	2	3	3	2	2	3	3	3	-	1
Temperature		°C	-	-	9.2	14.3	17.8	24.8	28.1	25.1	23.0	21.9	16.5	-	N/A
Threshold Odor Number	3 S	Units	-	-	6	8	12	12	6	6	8	6	8	-	0
Total Organic Carbon		mg/L	-	-	1.3	1.1	1.6	2.1	2.0	1.9	2.6	1.6	2.0	-	0.5
Turbidity	≤ 5 P	NTU	-	-	0.10	0.10	0.10	0.25	0.25	0.15	0.20	0.25	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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Aluminum	50 - 200 S	µg/L	-	-	-	59.9	-	-	139	-	-	42.9	-	-	25.0
Antimony	6 P	µg/L	-	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	10 P	µg/L	-	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	2000 P	µg/L	-	-	-	33.0	-	-	38.8	-	-	34.4	-	-	25.0
Beryllium	4 P	µg/L	-	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	5 P	µg/L	-	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium		mg/L	-	-	-	50.8	-	-	38.2	-	-	43.1	-	-	1.0
Chromium	100 P	µg/L	-	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	1300 AL	µg/L	-	-	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Iron	300 S	µg/L	-	-	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Lead	15 AL	µg/L	-	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium		mg/L	-	-	-	8.5	-	-	9.3	-	-	9.2	-	-	1.0
Manganese	50 S	µg/L	-	-	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Mercury	2 P	µg/L	-	-	-	BQL	-	-	BQL	-	-	BQL	-	-	0.50
Nickel	100 P	µg/L	-	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium		mg/L	-	-	-	2.4	-	-	3.1	-	-	3.5	-	-	1.0
Selenium	50 P	µg/L	-	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	-	-	-	1.1	-	-	2.9	-	-	2.5	-	-	1.0
Silver	100 S	µg/L	-	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	-	-	30.6	18.2	21.6	23.6	22.2	25.0	17.8	22.9	21.5	-	1.0
Thallium	2 P	µg/L	-	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Zinc	5000 S	µg/L	-	-	-	BQL	-	-	BQL	-	-	BQL	-	-	25.0

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