



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2024 TO 12/31/2024

Distribution Site Representing Washington Aqueduct Service Area

Date Report Generated: 1/10/2025

Parameter	MCL ¹	Units ²	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Quant Limit ³
Aggressive Index Number		Units	12	11	11	11	12	12	12	12	12	12	12	-	N/A
Alkalinity, Bicarbonate		mg/L	63	53	58	62	87	103	80	72	80	85	102	-	0
Alkalinity, Carbonate		mg/L	0	0	0	0	0	0	0	0	0	0	0	-	0
Alkalinity, Hydroxyl		mg/L	0	0	0	0	0	0	0	0	0	0	0	-	0
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	0	0	0	0	0	0	0	-	0
Alkalinity, Total		mg/L	63	53	58	62	87	103	80	72	80	85	102	-	0
Bromide		mg/L	0.03	0.01	BQL	BQL	BQL	BQL	0.33	0.01	BQL	0.01	0.02	-	0.01
Carbon Dioxide		mg/L	2	3	2	2	3	4	3	3	3	3	3	-	N/A
Chloride	250 S	mg/L	29.7	36.5	27.3	20.4	24.6	26.7	34.8	39.0	32.8	29.1	33.3	-	5.0
Chlorine, Free		mg/L	0.1	0.2	0.1	2.9	0.4	0.4	0.3	0.6	0.4	0.4	0.3	-	0.0
Chlorine, Total		mg/L	3.3	3.5	3.5	3.1	3.2	3.6	2.9	3.4	3.4	3.3	3.3	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	12.3	11.9	12.2	11.2	8.9	8.8	7.9	7.5	6.4	8.7	10.1	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.6	0.6	-	0.2
Hardness, Calcium		mg/L	83	71	75	75	97	113	91	88	93	91	107	-	10
Hardness, Total		mg/L	114	95	102	101	131	151	141	139	132	127	151	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.96	1.02	0.94	BQL	0.91	1.00	0.97	-	-	-	-	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.62	1.57	1.19	0.98	0.86	0.81	BQL	0.29	0.88	0.98	0.87	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.01	BQL	BQL	-	0.01
pH	6.5 - 8.5 S	Units	7.8	7.5	7.8	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.8	-	N/A
Phosphate as Phosphorous		mg/L	0.75	0.79	0.71	0.68	0.76	0.83	0.75	0.77	0.79	0.76	0.76	-	0.10
Orthophosphate as PO ₄		mg/L	2.30	2.42	2.17	2.08	2.33	2.53	2.27	2.34	2.42	2.33	2.31	-	0.31
Solids, Total		mg/L	199	176	169	162	200	240	245	-	-	221	-	-	1
Solids, Total Dissolved	500 S	mg/L	164	176	158	142	166	228	222	-	-	178	-	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	BQL	-	-	1
Specific Conductivity		µmhos/cm	320	312	287	275	332	385	398	405	379	360	407	-	0
Sulfate	250 S	mg/L	41.5	34.8	34.2	36.4	36.9	44.7	54.8	60.7	46.8	44.5	40.8	-	5.0
Taste		Units	2	3	3	2	3	5	3	-	-	-	-	-	1
Temperature		°C	7.1	8.5	10.9	14.3	20.7	24.2	28.0	26.2	24.4	22.2	17.5	-	N/A
Threshold Odor Number	3 S	Units	7	7	1	12	4	20	13	-	-	-	-	-	0
Total Organic Carbon		mg/L	1.9	1.6	1.6	1.5	1.3	1.8	2.1	1.9	1.9	2.1	1.6	-	0.5
Turbidity	≤ 5 P	NTU	0.05	0.10	0.05	0.05	0.05	0.25	0.15	0.05	0.05	0.05	0.05	-	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	BQL	-	-	BQL	-	-	92.0	-	-	33.8	-	-	25.0
Antimony	6 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	10 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	2000 P	µg/L	29.0	-	-	28.4	-	-	43.2	-	-	38.2	-	-	25.0
Beryllium	4 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	5 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium		mg/L	31.0	-	-	25.3	-	-	32.7	-	-	36.1	-	-	1.0
Chromium	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	1300 AL	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	8.7	BQL	46.3	BQL	BQL	-	25.0
Iron	300 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	61.9	BQL	BQL	BQL	BQL	-	25.0
Lead	15 AL	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium		mg/L	7.6	-	-	5.9	-	-	11.7	-	-	8.9	-	-	1.0
Manganese	50 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Mercury	2 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	0.50
Nickel	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium		mg/L	2.8	-	-	2.0	-	-	3.3	-	-	3.5	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	2.9	-	-	2.2	-	-	4.0	-	-	2.8	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	17.2	21.9	15.4	13.3	15.2	17.3	21.5	23.4	22.0	21.2	19.3	-	1.0
Thallium	2 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Zinc	5000 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	25.0

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