



Water Quality Laboratory

Inorganics Analyses

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

Distribution Site Representing Corbalis Treatment Plant

Date Report Generated: 1/10/2025

Parameter	MCL <sup>1</sup>	Units <sup>2</sup>	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 <sup>3</sup>
Aggressive Index Number		Units	11	11	11	11	11	12	11	11	11	11	12	-	N/A
Alkalinity, Bicarbonate		mg/L	81	61	56	70	93	110	80	83	103	79	122	-	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	81	61	56	70	93	110	80	83	103	79	122	-	0
Bromide		mg/L	-	0.01	BQL	BQL	0.01	0.01	0.02	BQL	0.01	0.02	0.04	-	0.01
Carbon Dioxide		mg/L	6	5	4	6	7	9	10	7	8	5	8	-	N/A
Chloride	250 S	mg/L	24.2	44.3	28.7	24.2	37.1	24.7	37.9	29.3	28.4	21.2	33.8	-	5.0
Chlorine, Free		mg/L	0.2	0.0	0.2	2.9	0.3	0.4	0.4	0.4	0.4	0.3	0.3	-	0.0
Chlorine, Total		mg/L	3.5	3.3	3.1	3.1	3.1	3.3	3.7	3.2	3.3	2.9	3.3	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	15.5	15.0	13.6	12.7	12.6	11.2	15.5	13.3	12.6	13.2	14.6	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.7	0.8	0.7	0.8	0.8	0.7	0.6	0.7	0.6	0.7	0.6	0.6	0.2
Hardness, Calcium		mg/L	94	76	61	73	90	120	85	76	112	72	114	-	10
Hardness, Total		mg/L	128	104	82	99	126	164	141	105	160	96	167	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.88	0.79	0.85	BQL	0.77	0.79	0.81	-	-	-	-	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	-	1.32	0.91	0.93	0.81	0.97	0.23	1.35	0.99	1.12	0.89	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	-	0.02	0.01	BQL	BQL	BQL	BQL	BQL	0.01	BQL	BQL	-	0.01
pH	6.5 - 8.5 S	Units	7.4	7.4	7.4	7.4	7.4	7.4	7.2	7.4	7.4	7.5	7.5	-	N/A
Phosphate as Phosphorous		mg/L	0.40	0.41	0.40	0.34	0.41	0.40	0.41	0.45	0.41	0.45	0.42	-	0.10
Orthophosphate as PO <sub>4</sub>		mg/L	1.23	1.26	1.21	1.02	1.27	1.23	1.25	1.37	1.26	1.39	1.27	-	0.31
Solids, Total		mg/L	194	177	147	154	213	240	250	-	-	160	-	-	1
Solids, Total Dissolved	500 S	mg/L	166	194	136	110	186	236	230	-	-	134	-	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	BQL	-	-	1
Specific Conductivity		µmhos/cm	320	318	246	263	350	393	401	300	408	266	439	-	0
Sulfate	250 S	mg/L	36.6	20.6	15.5	18.9	21.6	45.6	53.3	15.6	49.6	14.2	38.6	-	5.0
Taste		Units	2	2	2	2	3	3	2	-	-	-	-	-	1
Temperature		°C	8.3	8.4	12.4	13.6	19.3	23.8	30.4	25.1	26.4	22.5	17.6	-	N/A
Threshold Odor Number	3 S	Units	11	3	4	8	1	5	3	-	-	-	-	-	0
Total Organic Carbon		mg/L	1.4	1.4	1.7	1.4	1.4	1.5	1.7	2.8	1.3	2.3	1.4	-	0.5
Turbidity	≤ 5 P	NTU	0.10	0.10	0.10	0.10	0.10	0.20	0.70	0.05	0.10	0.10	0.05	-	0.05

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

<sup>1</sup>Environmental 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

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

<sup>3</sup>Quant 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	-	-	26.4	-	-	175	-	-	48.7	-	-	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	30.0	-	-	28.9	-	-	44.3	-	-	26.1	-	-	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	35.8	-	-	25.4	-	-	31.6	-	-	27.5	-	-	1.0
Chromium	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	1300 AL	µg/L	BQL	BQL	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	BQL	BQL	-	25.0
Lead	15 AL	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium		mg/L	8.6	-	-	6.1	-	-	13.7	-	-	6.2	-	-	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	2.2	-	-	1.9	-	-	3.2	-	-	2.7	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	1.8	-	-	3.3	-	-	4.7	-	-	3.9	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	13.8	20.6	15.0	12.5	20.2	14.5	22.4	16.7	17.5	12.2	20.0	-	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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