



Water Quality Laboratory

Inorganics Analyses

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

Corbalis Treatment Plant Finished Water

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	11	11	11	11	11	11	11	11	12	11	-	N/A
Alkalinity, Bicarbonate		mg/L	70	109	75	79	70	97	106	108	83	120	115	-	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	70	109	75	79	70	97	106	108	83	120	115	-	0
Bromate ⁴	10 P	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5
Bromide		mg/L	0.01	0.02	0.02	BQL	0.01	BQL	0.01	0.02	BQL	0.01	0.02	-	0.01
Carbon Dioxide		mg/L	7	11	7	10	9	10	8	11	8	10	9	-	N/A
Chloride	250 S	mg/L	27.1	22.2	21.8	20.2	17.6	23.9	26.5	34.5	28.1	24.4	22.4	-	5.0
Chlorine, Free ⁴		mg/L	0.5	0.2	0.1	3.5	3.3	3.6	0.2	0.4	0.3	0.3	0.2	-	0.0
Chlorine, Total ⁴		mg/L	3.6	3.8	4.0	3.6	3.4	3.7	3.6	3.7	4.0	3.8	3.7	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	15.2	14.5	14.8	12.6	14.9	12.0	10.6	11.6	12.1	14.4	14.7	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	-	0.2
Hardness, Calcium		mg/L	66	113	76	79	76	100	102	95	78	110	102	-	10
Hardness, Total		mg/L	92	149	102	106	104	142	139	142	101	158	150	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N) ⁴		mg/L	0.90	0.94	0.83	BQL	BQL	BQL	0.99	0.84	0.88	0.88	0.81	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.52 ⁴	1.78	1.59	1.05 ⁴	0.91	0.90	0.72 ⁴	0.52	1.78	1.33 ⁴	1.20	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	0.01 ⁴	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.01
pH	6.5 - 8.5 S	Units	7.3	7.3	7.3	7.2	7.2	7.3	7.4	7.3	7.3	7.4	7.4	-	N/A
Phosphate as Phosphorous		mg/L	0.43	0.39	0.42	0.44	0.44	0.37	0.42	0.39	-	0.39	0.42	-	0.10
Orthophosphate as PO ₄		mg/L	1.31	1.19	1.29	1.33	1.35	1.12	1.27	1.19	-	1.18	1.27	-	0.31
Solids, Total		mg/L	153	246	147	190	160	214	232	241	180	238	253	-	1
Solids, Total Dissolved	500 S	mg/L	160	220	158	144	130	164	222	194	166	238	222	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	282	388	286	286	273	361	380	416	302	403	390	-	0
Sulfate	250 S	mg/L	18.7	44.8	27.7	28.0	30.7	38.1	40.9	44.6	20.0	39.5	43.7	-	5.0
Taste		Units	2	2	2	2	2	2	2	2	2	2	3	-	1
Temperature		°C	9.4	9.0	11.7	15.7	17.3	23.4	26.0	26.6	25.2	22.6	18.9	-	N/A
Threshold Odor Number	3 S	Units	8	8	8	12	12	12	6	8	8	1	1	-	0
Total Organic Carbon		mg/L	1.4	0.8	0.9	1.3	1.3	1.4	1.3	1.5	2.5	1.2	1.5	-	0.5
Turbidity	≤ 5 P	NTU	0.05	0.05	0.05	0.10	0.05	0.10	0.15	0.05	0.15	0.10	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

⁴Monthly result composed from an average of parameter results for finished water points of entry to distribution system

- Not sampled

* Analysis pending



Water Quality Laboratory

Metal Analyses

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

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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
Aluminum	50 - 200 S	µg/L	BQL	-	-	BQL	-	-	70.4	-	-	36.8	-	-	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	26.2	-	-	35.2	-	-	46.4	-	-	41.3	-	-	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	27.2	-	-	32.3	-	-	39.7	-	-	45.5	-	-	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	7.0	-	-	7.7	-	-	11.2	-	-	12.1	-	-	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	-	-	1.8	-	-	2.9	-	-	2.8	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	4.5	-	-	1.9	-	-	3.1	-	-	1.2	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	15.2	13.7	11.9	11.8	10.6	13.9	15.6	20.5	15.3	15.7	14.8	-	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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