



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2020 TO 12/31/2020

Corbalis Treatment Plant Finished Water

Date Report Generated: 12/10/2020

Parameter	MCL ¹	Units ²	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Quant Limit ³
Aggressive Index Number		Units	11	11	11	11	11	11	11	11	11	11	11	-	N/A
Alkalinity, Bicarbonate		mg/L	77	84	73	71	55	74	86	101	90	105	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	77	84	73	71	55	74	86	101	90	105	102	-	0
Bromate ⁴	10 P	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*	5
Bromide		mg/L	0.03	0.03	0.01	0.01	BQL	BQL	0.01	0.01	0.02	0.02	0.02	-	0.01
Carbon Dioxide		mg/L	8	7	9	6	5	7	9	8	9	11	10	-	N/A
Chloride	250 S	mg/L	23.2	18.9	18.3	18.0	22.5	14.6	20.4	22.6	18.5	24.1	28.7	-	5.0
Chlorine, Free ⁴		mg/L	0.2	0.2	3.6	3.7	3.6	3.0	0.4	0.3	0.4	0.4	0.2	-	0.0
Chlorine, Total ⁴		mg/L	3.7	3.6	3.8	4.0	3.8	3.3	3.7	3.6	4.4	3.8	3.8	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	15.4	13.9	13.6	13.2	13.3	11.8	11.4	11.7	12.3	12.3	14.9	-	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	0.8	0.7	0.7	0.7	-	0.2
Hardness, Calcium		mg/L	91	93	80	77	51	74	85	89	91	101	91	-	10
Hardness, Total		mg/L	123	124	105	106	70	98	121	129	125	146	132	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N) ⁴		mg/L	0.90	0.82	BQL	BQL	BQL	BQL	0.86	0.68	0.92	0.91	0.89	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.33 ⁴	1.45	0.99	0.89 ⁴	0.86	0.89	0.58 ⁴	0.73	0.86	0.78 ⁴	0.95	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	0.01 ⁴	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.01
pH	6.5 - 8.5 S	Units	7.3	7.4	7.2	7.4	7.3	7.3	7.3	7.4	7.3	7.3	7.3	-	N/A
Phosphate as Phosphorous		mg/L	0.40	0.39	0.41	0.38	0.42	0.40	0.40	0.39	0.43	0.41	0.42	-	0.10
Orthophosphate as PO ₄		mg/L	1.21	1.18	1.26	1.15	1.27	1.21	1.22	1.19	1.31	1.24	1.28	-	0.31
Solids, Total		mg/L	205	185	168	164	128	151	184	204	201	233	222	-	1
Solids, Total Dissolved	500 S	mg/L	216	188	182	122	114	146	198	236	192	246	226	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	324	313	278	279	219	260	318	338	316	386	365	-	0
Sulfate	250 S	mg/L	40.8	37.3	32.5	34.9	12.3	25.6	34.0	35.6	38.2	47.4	31.7	-	5.0
Taste		Units	2	2	2	2	2	2	2	2	2	2	2	-	1
Temperature		°C	9.7	11.4	14.2	15.5	15.7	22.8	26.1	27.4	25.4	22.5	17.6	-	N/A
Threshold Odor Number	3 S	Units	7	9	8	8	6	8	12	6	8	6	8	-	0
Total Organic Carbon		mg/L	1.3	1.0	1.2	1.1	1.6	1.5	1.2	1.4	1.3	1.1	1.6	-	0.5
Turbidity	≤ 5 P	NTU	0.05	0.05	0.05	0.05	0.05	0.10	0.10	0.10	0.10	0.05	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

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Parameter	MCL ¹	Units ²	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Quant Limit ³
Aluminum	50 - 200 S	µg/L	BQL	-	-	BQL	-	-	40.0	-	-	BQL	-	-	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	29.4	-	-	36.2	-	-	41.8	-	-	38.4	-	-	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	35.0	-	-	30.6	-	-	32.6	-	-	39.9	-	-	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	8.2	-	-	7.4	-	-	9.0	-	-	13.2	-	-	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	2.0	-	-	1.8	-	-	2.5	-	-	2.8	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	1.9	-	-	1.1	-	-	3.4	-	-	1.0	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	13.6	11.5	11.7	11.0	13.4	9.2	12.5	14.5	12.9	15.5	17.7	-	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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