



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2018 TO 12/31/2018

Corbalis Treatment Plant Finished Water

Date Report Generated: 12/21/2018

Parameter	MCL ¹	Units ²	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Quant Limit ³
Aggressive Index Number		Units	12	11	11	11	11	11	11	11	11	11	11	-	N/A
Alkalinity, Bicarbonate		mg/L	70	80	90	60	65	67	86	66	102	94	88	-	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	80	90	60	65	67	86	66	102	94	88	-	0
Bromate ⁴	10 P	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5
Bromide		mg/L	0.04	0.04	0.02	0.02	BQL	BQL	BQL	BQL	BQL	BQL	0.01	-	0.01
Carbon Dioxide		mg/L	2	4	6	6	8	8	9	5	10	9	9	-	N/A
Chloride	250 S	mg/L	26.0	26.8	23.0	18.0	23.0	32.4	22.9	21.3	26.3	20.2	25.4	-	5.0
Chlorine, Free ⁴		mg/L	0.1	0.2	0.2	3.3	3.0	0.2	0.3	0.2	0.3	0.2	0.2	-	0.0
Chlorine, Total ⁴		mg/L	3.4	3.5	3.4	3.5	3.2	3.6	3.4	3.6	3.7	3.7	3.8	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	18.1	16.7	14.7	14.6	13.1	13.6	12.6	12.2	13.5	12.4	14.3	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.8	0.7	0.7	0.7	-	0.2
Hardness, Calcium		mg/L	89	97	106	72	64	65	82	54	81	86	79	-	10
Hardness, Total		mg/L	119	132	139	96	96	86	110	71	120	112	111	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N) ⁴		mg/L	0.85	0.84	0.83	BQL	BQL	-	0.88	0.90	0.81	0.87	0.81	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.63 ⁴	1.28	1.50	1.16 ⁴	0.70	0.93	0.87 ⁴	1.06	1.20	1.49 ⁴	1.32	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.01
pH	6.5 - 8.5 S	Units	7.8	7.6	7.5	7.3	7.2	7.2	7.3	7.4	7.3	7.3	7.3	-	N/A
Phosphate as Phosphorous		mg/L	0.42	0.41	0.40	0.44	0.44	0.45	0.40	0.46	-	0.41	0.42	-	0.10
Orthophosphate as PO ₄		mg/L	1.27	1.26	1.23	1.33	1.33	1.39	1.23	1.39	-	1.24	1.28	-	0.31
Solids, Total		mg/L	192	205	222	160	156	158	184	145	203	202	198	-	1
Solids, Total Dissolved	500 S	mg/L	180	260	180	146	154	154	186	98	194	190	204	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	340	373	356	261	248	282	311	241	327	311	314	-	0
Sulfate	250 S	mg/L	40.5	44.9	43.5	30.3	26.9	13.0	23.8	11.6	19.0	20.9	24.6	-	5.0
Taste		Units	2	2	2	2	2	2	1	2	2	2	2	-	1
Temperature		°C	8.4	9.7	11.3	13.3	18.2	22.7	25.3	25.0	25.0	23.3	17.8	-	N/A
Threshold Odor Number	3 S	Units	3	7	2	3	9	8	1	6	4	7	6	-	0
Total Organic Carbon		mg/L	1.8	1.4	1.3	1.2	1.5	1.8	1.7	2.1	1.9	1.4	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	0.10	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

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Aluminum	50 - 200 S	µg/L	BQL	-	-	BQL	-	-	44.3	-	-	40.2	-	-	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	35.5	-	-	31.0	-	-	45.2	-	-	41.0	-	-	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	34.0	-	-	29.8	-	-	30.9	-	-	30.0	-	-	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	8.0	-	-	6.7	-	-	8.2	-	-	7.8	-	-	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	-	-	1.7	-	-	2.8	-	-	2.3	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	1.9	-	-	2.0	-	-	3.0	-	-	6.0	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	15.0	16.1	13.6	11.3	13.7	17.4	12.6	16.1	14.9	11.5	15.5	-	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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