



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2017 TO 12/31/2017

Corbalis Treatment Plant Finished Water

Date Report Generated: 11/07/2017

Parameter	MCL <sup>1</sup>	Units <sup>2</sup>	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Quant Limit <sup>3</sup>
Aggressive Index Number		Units	11	11	11	11	11	-	11	11	12	12	*	-	N/A
Alkalinity, Bicarbonate		mg/L	60	62	63	64	56	-	94	79	116	122	*	-	0
Alkalinity, Carbonate		mg/L	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
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	0	-	0	0	0	0	*	-	0
Alkalinity, Total		mg/L	60	62	63	64	56	-	94	79	116	122	73	-	0
Bromate <sup>4</sup>	10 P	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	8	BQL	BQL	*	-	5
Bromide		mg/L	0.02	0.04	0.01	0.01	BQL	-	0.01	0.02	0.02	0.03	*	-	0.01
Carbon Dioxide		mg/L	5	4	6	6	7	-	9	6	7	10	*	-	N/A
Chloride	250 S	mg/L	32.1	21.3	21.4	30.3	21.3	-	25.4	19.4	29.6	33.0	*	-	5.0
Chlorine, Free <sup>4</sup>		mg/L	0.2	0.2	0.1	3.3	3.5	-	0.3	0.3	0.3	0.3	0.3	-	0.0
Chlorine, Total <sup>4</sup>		mg/L	3.3	3.4	3.3	3.6	3.6	-	3.4	3.5	3.8	3.7	4.0	-	0.0
Color	15 S	Units	0	0	0	0	0	-	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	14.6	14.1	13.8	11.9	14.6	-	14.8	15.6	13.4	12.5	15.9	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.7	0.6	0.8	0.7	0.7	-	0.7	0.7	0.6	0.6	*	-	0.2
Hardness, Calcium		mg/L	64	85	76	63	56	-	99	89	113	118	*	-	10
Hardness, Total		mg/L	89	102	100	90	76	-	137	121	171	176	*	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	-	BQL	-	-	-	-	0.05
N, Ammonia (Ammonia as N) <sup>4</sup>		mg/L	0.83	0.81	0.78	BQL	BQL	-	0.96	0.73	0.77	0.81	*	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.11	1.06	0.99	0.76	0.95	-	1.56	1.37	0.99	0.82	*	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	*	-	0.01
pH	6.5 - 8.5 S	Units	7.4	7.5	7.3	7.3	7.2	-	7.3	7.4	7.5	7.4	7.5	-	N/A
Phosphate as Phosphorous		mg/L	0.41	0.43	0.43	0.42	0.43	-	0.41	0.41	0.41	0.41	0.40	-	0.10
Orthophosphate as PO <sub>4</sub>		mg/L	1.25	1.31	1.32	1.28	1.31	-	1.26	1.24	1.24	1.24	1.23	-	0.31
Solids, Total		mg/L	162	184	180	165	150	-	219	196	272	274	*	-	1
Solids, Total Dissolved	500 S	mg/L	-	186	193	145	105	-	285	166	320	294	*	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	287	303	288	281	221	-	374	335	441	476	*	-	0
Sulfate	250 S	mg/L	24.6	42.4	38.5	20.0	15.3	-	41.6	39.1	52.9	55.1	*	-	5.0
Taste		Units	2	2	2	1	2	-	2	2	2	2	1	-	1
Temperature		°C	10.3	11.4	-	15.7	17.8	-	26.0	25.6	23.1	23.3	19.0	-	N/A
Threshold Odor Number	3 S	Units	8	10	6	8	12	-	1	7	10	5	OF, Cc	-	0
Total Organic Carbon		mg/L	2.0	1.3	1.6	1.5	1.8	-	2.0	2.0	1.5	1.4	*	-	0.5
Turbidity	≤ 5 P	NTU	0.05	0.05	0.05	0.10	0.05	-	0.10	0.10	0.05	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

<sup>4</sup>Monthly 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 <sup>1</sup>	Units <sup>2</sup>	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Quant Limit <sup>3</sup>
Aluminum	50 - 200 S	µg/L	BQL	-	-	BQL	-	-	38.9	-	-	*	-	-	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	27.4	-	-	33.1	-	-	44.0	-	-	53.2	-	-	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	25.8	-	-	25.9	-	-	39.4	-	-	47.9	-	-	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	*	-	25.0
Iron	300 S	µg/L	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	6.6	-	-	7.0	-	-	10.4	-	-	15.5	-	-	1.0
Manganese	50 S	µg/L	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	2.6	-	-	2.0	-	-	3.4	-	-	3.8	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	2.9	-	-	3.0	-	-	3.2	-	-	1.1	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	*	-	-	5.0
Sodium		mg/L	17.0	12.8	13.7	17.9	11.7	-	17.0	12.6	20.9	22.8	*	-	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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