

WATER QUALITY LABORATORY **INORGANIC ANALYSES** PERIOD OF 01/01/2008 TO 12/31/2008 **Corbalis Treatment Plant Finished Water**

Parameter	MCL ¹	Units ²	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit	# of Tests
Aggressive Index Number		Units	11	12	11	11	11	10		11	11	12	12	11	11	12	10	-	11
Alkalinity, Bicarbonate		mg/L	95	80	78	89	67	80	112	112	111	107	116	98	95	116	67	-	12
Alkalinity, Carbonate		mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	12
Alkalinity, Hydroxyl		mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	12
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	12
Alkalinity, Total		mg/L	95	80	78	89	67	80	112	112	111	107	116	98	95	116	67	-	12
Bromate	10 P	μg/L	BQL	BQL	BQL	BQL			BQL			BQL			BQL	13	BQL	5	23
Bromide		mg/L	0.02	0.01	0.01	BQL	BQL	BQL	0.02	0.02	0.02	0.02	0.02	0.03	0.01	0.03	BQL	0.01	12
Carbon Dioxide		mg/L	6	2	16	11	5	32		22	18	7	6	8	12	32	2	-	11
Chloride	250.0 S	mg/L	38.4	30.0	35.9	37.3	20.9	24.8	27.0	30.0	31.2	29.3	31.3	37.4	31.1	38.4	20.9	5.0	12
Chlorine, Free		mg/L	0.1	0.1	0.1	3.4	3.1	3.1	0.5	0.3	0.3	0.2	0.2	0.1	1.0	3.4	0.0	0.0	44
Chlorine, Total		mg/L	3.8	3.5	3.5	3.6	3.3	3.3	3.5	3.5	3.4	3.0	3.1	3.2	3.4	3.9	2.8	0.0	44
Color	15 S	Units	0	0	1	3	2	3	1	2	1	0	1	1	1	3	0	0	12
Dissolved Oxygen		mg/L	17.5		13.7	13.2	12.5	11.9	11.3	13.8	13.8		14.0		13.5	17.5	11.3	0.0	9
Fluoride	4.0/2.0 P/S	mg/L	0.9	0.8	0.7	0.7	0.9	0.9	1.0	0.8	1.1	0.9	1.0	0.9	0.9	1.1	0.7	0.2	12
Hardness, Calcium		mg/L	94	81	77	65	72	71	94	104	110	104	104	94	89	110	65	-	12
Hardness, Total		mg/L	133	107	105	107	83	103	144	156	158	166	159	138	130	166	83	-	12
Methylene Blue Activated Substances	0.5 S	mg/L								BQL					BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)		mg/L	0.80	0.81		BQL	BQL	BQL	0.76	0.99			0.93	0.85	0.55	1.05	BQL	0.20	33
N, Nitrate (Nitrate as N)	10 P	mg/L	1.2	1.3	1.0	0.7	1.1	0.8	0.8	0.7	1.0	0.5	0.4	0.5	0.8	1.3	0.4	0.2	12
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	0.01	12														
pH	6.5-8.5 S	Units	7.5	7.8	7.0	7.2	7.4	6.7	6.8	7.0	7.1	7.5	7.6	7.4	7.3	7.8	6.7	-	12
Phosphate as Phosphorous		mg/L	0.58	0.59	0.60	0.52	0.55	0.53	0.45	0.43	0.33	0.34		0.38	0.48	0.60	0.33	0.20	11
Solids, Total		mg/L	220	199	190	203	171	210	233	253	253	232	264	228	221	264	171	1	12
Solids, Total Dissolved	500 S	mg/L	203	177	171	188	145	204	218	249	239	223	214	220	204	249	145	1	12
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL		BQL	1	11							
Specific Conductivity		µmhos/cm	358	315	308	354	239	291	385	434	392	404		394	352	434	239	0	11
Sulfate	250.0 S	mg/L	27.2	27.7	20.8	26.8	20.0	27.2	39.6	50.0	51.5	44.5	43.0	39.3	34.8	51.5	20.0	5.0	12
Taste		Units	2	2	2	2	2	2	1	2	2	3	2	3	2	3	1	1	12
Temperature		°C	8.1	10.5	13.3	17.3	17.8	22.4	28.2	25.4	24.8	17.2	13.7	9.8	17.4	28.2	8.1	-	12
Threshold Odor Number	3 S	Units	1	5	4	7	5	7	3	5	8	7	3	7	5	8	1	0	12
Total Organic Carbon		mg/L	2.0	2.1	1.9	2.4	1.9	1.4	2.2	2.3	2.1	2.2	2.3	2.0	2.1	2.4	1.4	0.5	12
Turbidity	≤5 P	NTU	0.10	0.15	0.05	0.40	0.10	0.15	0.10	0.10	0.10	0.25	0.10	0.15	0.15	0.40	0.05	0.00	12

^{*} Monthly result composed from an average of parameter results for Corbalis Treatment Plant finished water points of entry to distribution system.

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

1 Environmental Protection Agency/Virginia Department of Health established levels for drinking water

P=Primary-enforceable, S=Secondary-non-enforceable, AL=Action Level on specific taps, MCL=Maximum Contaminant Level.

² mg/L=milligrams per liter, µg/L=micrograms per liter



WATER QUALITY LABORATORY METAL ANALYSES PERIOD OF 01/01/2008 TO 12/31/2008 **Corbalis Treatment Plant Finished Water**

Parameter	MCL ¹	Units ²	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit	# of Tests
Aluminum	50-200 S	μg/L	37.6			BQL			66.2			35.6			34.9	66.2	BQL	25.0	4
Antimony	6 P	μg/L	BQL			BQL			BQL			BQL			BQL	BQL	BQL	2.0	4
Arsenic	10 P	μg/L	BQL			BQL			BQL			BQL			BQL	BQL	BQL	2.0	4
Barium	2000 P	μg/L	38.4			45.9			46.9			37.3			42.1	46.9	37.3	25.0	4
Beryllium	4 P	μg/L	BQL			BQL			BQL			BQL			BQL	BQL	BQL	2.0	4
Cadmium	5 P	μg/L	BQL			BQL			BQL			BQL			BQL	BQL	BQL	2.0	4
Calcium		mg/L	38.3			32.3			39.6			39.7			37.5	39.7	32.3	4.0	4
Chromium	100 P	μg/L	BQL			BQL			BQL			BQL			BQL	BQL	BQL	5.0	4
Copper	1300 AL	μg/L	BQL	BQL	BQL	46	49	78	34	BQL	BQL	BQL	BQL	BQL	BQL	78.1	BQL	25.0	12
Iron	300 S	μg/L	BQL	60	12														
Lead	15 AL	μg/L	BQL			BQL			BQL			BQL			BQL	BQL	BQL	2.0	4
Magnesium		mg/L	10.0			8.9			11.2			12.6			10.7	12.6	8.9	4.0	4
Manganese	50 S	μg/L	BQL	25.0	12														
Mercury	2 P	μg/L	0.55	BQL									BQL		BQL	0.55	BQL	0.50	3
Nickel	100 P	μg/L	BQL			BQL			BQL			BQL			BQL	BQL	BQL	5.0	4
Potassium		mg/L	2.6			2.4			3.1			3.7			3.0	3.7	2.4	0.5	4
Selenium	50 P	μg/L	BQL			BQL			BQL			BQL			BQL	BQL	BQL	5.0	4
Silicon		mg/L	BQL			BQL			4			BQL			BQL	4	BQL	4	4
Silver	100 S	μg/L	BQL			BQL			BQL			BQL			BQL	BQL	BQL	5.0	4
Sodium		mg/L	21.4	19.7	19.6	23.2	15.8	19.0	23.2	20.8	22.2	19.2	23.6	24.7	21.0	24.7	15.8	5.0	12
Thallium	2 P	μg/L	BQL			BQL			BQL			BQL			BQL	BQL	BQL	2.0	4
Zinc	5000 S	μg/L	BQL			BQL			BQL			BQL			BQL	BQL	BQL	25.0	4

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2 mg/L=milligrams per liter, µg/L=micrograms per liter