



**WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2006 TO 12/31/2006
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	11	11	--	11	11	10	11	11	11	11	--	11	11	10	-	39 *
Alkalinity, Bicarbonate		mg/L	63	61	64	--	86	103	75	111	105	90	104	--	86	112	60	-	39 *
Alkalinity, Carbonate		mg/L	0	0	0	--	0	0	0	0	0	0	0	--	0	0	0	-	39 *
Alkalinity, Hydroxyl		mg/L	0	0	0	--	0	0	0	0	0	0	0	--	0	0	0	-	39 *
Alkalinity, Phenolphthalein		mg/L	0	0	0	--	0	0	0	0	0	0	0	--	0	0	0	-	39 *
Alkalinity, Total		mg/L	63	61	64	--	86	103	75	111	105	90	104	--	86	112	60	-	39 *
Bromate	10 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	10	16 *
Bromide		mg/L	BQL	BQL	0.02	--	BQL	BQL	BQL	0.02	BQL	0.01	0.02	--	BQL	0.02	BQL	0.01	39 *
Carbon Dioxide		mg/L	7	8	9	--	4	11	24	15	7	6	14	--	10	24	4	-	39 *
Chloride	250.0 S	mg/L	28.1	33.0	38.1	--	25.0	26.8	26.2	33.9	23.4	26.1	26.5	--	28.8	38.4	23.3	5.0	39 *
Chlorine, Free		mg/L	0.2	0.2	0.0	--	4.0	3.6	4.0	0.5	0.3	0.3	0.4	--	1.4	4.1	0.0	0.0	39 *
Chlorine, Total		mg/L	3.9	3.9	3.6	--	4.2	3.9	4.2	4.0	4.0	3.8	3.7	--	3.9	4.3	3.2	0.0	39 *
Color	15 S	Units	1	2	1	--	2	1	3	2	0	2	0	--	1	5	0	0	39 *
Cyanide (as free cyanide)	0.2 P	mg/L	--	--	--	--	--	BQL	--	--	--	--	--	--	BQL	BQL	BQL	0.025	4 *
Dissolved Oxygen		mg/L	17.5	15.7	18.6	--	13.6	14.1	13.1	13.3	12.6	15.4	15.9	--	14.9	18.7	12.3	0.0	39 *
Fluoride	4.0/2.0 P/S	mg/L	0.7	0.7	0.7	--	0.9	1.2	1.0	0.9	1.1	0.9	0.7	--	0.9	1.2	0.7	0.2	39 *
Hardness, Calcium		mg/L	75	70	74	--	78	88	84	99	87	82	94	--	83	101	67	-	39 *
Hardness, Total		mg/L	101	95	106	--	103	130	114	156	126	116	133	--	118	158	94	-	39 *
Methylene Blue Activated Substances	0.5 S	mg/L	--	--	--	--	--	--	BQL	--	--	--	--	--	BQL	BQL	BQL	0.050	4 *
N, Ammonia (Ammonia as N)		mg/L	0.93	1.13	0.97	--	BQL	BQL	--	1.10	--	0.78	0.95	--	0.73	1.23	BQL	0.05	31 *
N, Nitrate (Nitrate as N)	10 P	mg/L	1.4	1.3	1.0	--	0.9	0.4	0.8	0.8	1.2	1.1	1.0	1.2	1.0	1.4	0.4	0.2	43 *
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	BQL	BQL	--	BQL	BQL	BQL	0.02	--	BQL	BQL	BQL	BQL	0.03	BQL	0.01	35 *
pH	6.5-8.5 S	Units	7.3	7.2	7.2	--	7.6	7.3	6.8	7.2	7.5	7.5	7.2	--	7.3	7.6	6.8	-	39 *
Phosphate as Phosphorous		mg/L	0.55	0.57	0.56	--	0.62	0.43	0.52	0.48	0.40	0.43	0.36	--	0.49	0.77	0.35	0.20	39 *
Solids, Fixed		mg/L	103	105	127	--	138	171	148	205	162	--	164	--	146	214	69	1	35 *
Solids, Total		mg/L	208	153	173	--	189	241	251	294	241	--	241	--	221	324	137	1	35 *
Solids, Total Dissolved	500 S	mg/L	156	152	173	--	159	196	193	249	190	160	197	--	182	252	148	1	39 *
Solids, Total Suspended		mg/L	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	1	39 *
Solids, Volatile		mg/L	105	48	47	--	50	70	104	89	80	--	77	--	74	133	23	1	35 *
Specific Conductivity		µmhos/cm	271	264	259	--	274	291	--	404	308	302	305	--	297	408	258	0	35 *
Sulfate	250.0 S	mg/L	20.4	19.6	18.5	--	18.0	25.5	33.2	45.1	22.2	18.7	22.1	--	24.4	46.4	17.9	5.0	39 *
Taste		Units	2	2	2	--	2	2	3	2	2	1	2	--	2	3	1	1	39 *
Temperature		°C	11.1	9.9	8.8	--	17.6	24.5	26.1	26.8	22.9	17.3	14.0	--	18.0	27.5	8.2	-	39 *
Threshold Odor Number	3 S	Units	7	4	1	--	12	7	5	7	5	3	2	--	5	12	1	1	39 *
Total Organic Carbon		mg/L	1.7	1.6	1.6	--	1.8	2.0	2.0	2.3	2.5	2.1	2.5	--	2.0	2.5	1.6	0.5	39 *
Turbidity	≤5 P	NTU	0.10	0.13	0.43	--	0.13	0.45	0.11	0.14	0.20	0.15	0.12	--	0.20	1.00	0.05	0.00	39 *

* 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 01/01/2006 TO 12/31/2006
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	--	BQL	--	--	57.0	224.3	--	87.4	--	51.6	--	--	84.1	330.0	BQL	25.0	20 *
Antimony	6 P	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	20 *
Arsenic	10 P	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	20 *
Barium	2000 P	µg/L	--	34.4	--	--	34.3	38.3	--	43.6	--	31.5	--	--	36.4	44.2	31.1	25.0	20 *
Beryllium	4 P	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	20 *
Cadmium	5 P	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	20 *
Calcium		mg/L	--	26.5	--	--	29.7	35.6	--	43.1	37.6	34.0	--	--	34.4	43.6	26.0	0.5	24 *
Chromium	100 P	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	20 *
Copper	1300 AL	µg/L	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	72	BQL	25.0	39 *
Iron	300 S	µg/L	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	60	39 *
Lead	15 AL	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	20 *
Magnesium		mg/L	--	6.7	--	--	8.0	10.3	--	12.9	8.9	7.8	--	--	9.1	13.0	6.7	0.5	24 *
Manganese	50 S	µg/L	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	25.0	39 *
Mercury	2 P	µg/L	--	BQL	--	--	--	--	BQL	--	--	--	--	--	BQL	0.7	BQL	0.5	8 *
Nickel	100 P	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	20 *
Potassium		mg/L	--	2.1	--	--	2.2	3.0	--	3.4	--	2.6	--	--	2.7	3.4	2.1	0.5	20 *
Selenium	50 P	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	20 *
Silicon		mg/L	--	BQL	--	--	4	BQL	--	4	--	4	--	--	BQL	4	BQL	4	20 *
Silver	100 S	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	20 *
Sodium		mg/L	14.0	17.2	15.6	--	16.8	16.1	14.5	23.2	15.7	13.2	13.6	--	16.0	23.4	13.0	5.0	39 *
Thallium	2 P	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	20 *
Zinc	5000 S	µg/L	--	214	--	--	146	153	--	153	--	159	--	--	165	220	140	25	20 *

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