



**WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2005 TO 12/31/2005
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	--	11	11	11	--	11	11	12	10	-	34
Alkalinity, Bicarbonate		mg/L	--	63	84	74	65	101	--	105	113	75	--	56	83	114	56	-	34
Alkalinity, Carbonate		mg/L	--	0	0	0	0	0	--	0	0	0	--	0	0	0	0	-	34
Alkalinity, Hydroxyl		mg/L	--	0	0	0	0	0	--	0	0	0	--	0	0	0	0	-	34
Alkalinity, Phenolphthalein		mg/L	--	0	0	0	0	0	--	0	0	0	--	0	0	0	0	-	34
Alkalinity, Total		mg/L	--	63	84	74	65	101	--	105	113	75	--	56	83	114	56	-	34
Bromate	10 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	10	16
Bromide		mg/L	--	0.02	0.01	BQL	BQL	--	--	BQL	0.02	BQL	--	0.01	BQL	0.02	BQL	0.01	30
Carbon Dioxide		mg/L	--	10	5	6	3	12	--	6	17	20	--	6	10	23	2	-	34
Chloride	250.0 S	mg/L	--	89.4	24.8	28.0	31.4	26.8	--	26.8	31.4	35.5	--	28.2	36.1	89.7	24.3	5.0	34
Chlorine, Free		mg/L	--	0.1	0.1	6.2	3.8	4.1	--	0.4	0.4	0.1	--	0.2	1.6	6.6	0.0	0.0	34
Chlorine, Total		mg/L	--	3.4	3.6	6.6	4.1	4.1	--	4.3	4.5	4.2	--	4.3	4.4	7.2	3.1	0.0	34
Color	15 S	Units	--	2	5	1	2	1	--	1	3	0	--	1	2	5	0	0	34
Dissolved Oxygen		mg/L	--	15.8	17.5	13.6	11.3	12.0	--	12.2	12.2	14.5	--	16.2	14.1	17.7	11.2	0.0	34
Fluoride	4.0/2.0 P/S	mg/L	--	0.7	0.9	0.7	0.9	0.8	--	0.8	0.8	0.7	--	0.8	0.8	0.9	0.6	0.2	34
Hardness, Calcium		mg/L	--	76	93	66	53	86	--	80	105	72	--	57	78	109	53	-	34
Hardness, Total		mg/L	--	118	129	107	80	133	--	133	160	108	--	84	119	166	78	-	34
Methylene Blue Activated Substances	0.5 S	mg/L	--	--	--	--	BQL	BQL	--	--	--	--	--	--	BQL	0.052	BQL	0.050	5
N, Ammonia (Ammonia as N)		mg/L	--	1.29	1.17	BQL	BQL	BQL	--	0.95	1.07	--	--	1.01	0.74	1.36	BQL	0.05	30
N, Nitrate (Nitrate as N)	10 P	mg/L	--	1.5	1.1	1.0	0.8	0.9	--	0.7	0.7	1.1	--	1.4	1.0	1.5	0.7	0.2	34
N, Nitrite (Nitrite as N)	1 P	mg/L	--	BQL	BQL	--	BQL	BQL	--	BQL	--	BQL	--	BQL	BQL	BQL	BQL	0.01	25
pH	6.5-8.5 S	Units	--	7.1	7.5	7.4	7.7	7.2	--	7.5	7.1	6.9	--	7.3	7.3	7.8	6.8	-	34
Phosphate as Phosphorous		mg/L	--	0.72	0.51	0.56	0.60	--	--	0.44	0.37	0.42	--	0.56	0.52	0.74	0.35	0.20	30
Solids, Fixed		mg/L	--	248	--	163	138	192	--	193	231	182	--	111	185	258	89	1	30
Solids, Total		mg/L	--	352	305	300	199	313	--	290	317	255	--	180	284	383	155	1	34
Solids, Total Dissolved	500 S	mg/L	--	257	217	181	106	207	--	193	251	155	--	147	195	263	101	1	34
Solids, Total Suspended		mg/L	--	BQL	2	BQL	BQL	BQL	--	BQL	--	BQL	--	BQL	BQL	2	BQL	1	30
Solids, Volatile		mg/L	--	104	198	137	61	121	--	--	86	74	--	69	109	239	33	1	30
Specific Conductivity		µmhos/cm	--	473	332	278	262	313	--	334	403	311	--	244	331	477	243	0	34
Sulfate	250.0 S	mg/L	--	18.1	33.8	16.8	14.0	23.1	--	22.2	41.2	20.4	--	16.3	23.4	42.4	13.9	5.0	34
Taste		Units	--	2	2	3	4	2	--	2	2	1	--	3	2	4	1	1	34
Temperature		°C	--	7.5	9.2	16.2	18.4	23.7	--	25.6	24.9	17.2	--	11.0	17.0	26.1	7.0	-	34
Threshold Odor Number	3 S	Units	--	3	4	15	12	3	--	3	6	3	--	2	5	16	1	1	34
Total Organic Carbon		mg/L	--	12.9	1.6	1.4	2.2	2.0	--	2.1	2.2	2.7	--	1.8	3.3	13.0	1.4	0.5	34
Turbidity	≤5 P	NTU	--	0.08	0.75	0.14	0.18	0.11	--	0.29	0.23	0.18	--	0.05	0.22	0.80	0.05	0.00	34

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 01/01/2005 TO 12/31/2005
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	--	--	92	--	--	178	--	--	--	--	89	205	BQL	20	10
Antimony	6 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	4	10
Arsenic	50 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	2	10
Barium	2000 P	µg/L	--	93	--	--	52	--	--	41	--	--	--	--	64	136	40	2	10
Beryllium	4 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	1	10
Cadmium	5 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	1	10
Calcium		mg/L	--	31.5	--	--	19.9	--	--	37.8	--	--	--	--	31.7	39.2	19.6	0.5	10
Chromium	100 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	1	BQL	1	10
Copper	1300 AL	µg/L	--	12	12	27	BQL	11	--	5	4	12	--	5	10	109	BQL	2	34
Iron	300 S	µg/L	--	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	21	--	BQL	BQL	82	BQL	20	34
Lead	15 AL	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	0.37	10
Magnesium		mg/L	--	9.2	--	--	6.1	--	--	10.8	--	--	--	--	9.2	10.9	6.0	0.5	10
Manganese	50 S	µg/L	--	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	7	--	4	BQL	8	BQL	2	34
Mercury	2 P	µg/L	--	--	BQL	--	BQL	--	--	--	--	--	--	--	BQL	BQL	BQL	0.5	6
Nickel	100 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	5	10
Potassium		mg/L	--	3.8	--	--	2.9	--	--	3.1	--	--	--	--	3.3	3.8	2.9	0.5	10
Selenium	50 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	4	10
Silicon		mg/L	--	5	--	--	2	--	--	4	--	--	--	--	4	5	BQL	1	10
Silver	100 S	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	0.5	10
Sodium		mg/L	--	44.3	13.0	14.5	22.2	17.7	--	17.7	20.5	19.3	--	15.0	20.3	45.2	12.8	1.0	34
Thallium	2 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	2	10
Zinc	5000 S	µg/L	--	271	--	--	98	--	--	153	--	--	--	--	189	281	96	25	10

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