



**WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2007 TO 12/31/2007
Distribution Site Representing Corbalis Treatment Plant**

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	12	12	--	11	12	11	-	11
Alkalinity, Bicarbonate		mg/L	60	86	65	88	94	116	101	95	100	111	129	--	95	129	60	-	11
Alkalinity, Carbonate		mg/L	0	0	0	0	0	0	0	0	0	0	0	--	0	0	0	-	11
Alkalinity, Hydroxyl		mg/L	0	0	0	0	0	0	0	0	0	0	0	--	0	0	0	-	11
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	0	0	0	0	0	0	0	--	0	0	0	-	11
Alkalinity, Total		mg/L	60	86	65	88	94	116	101	95	100	111	129	--	95	129	60	-	11
Bromide		mg/L	0.02	0.02	BQL	BQL	0.01	0.01	BQL	BQL	0.02	0.02	BQL	--	BQL	0.02	BQL	0.01	11
Carbon Dioxide		mg/L	4	9	2	4	5	9	8	5	10	7	6	--	6	10	2	-	11
Chloride	250.0 S	mg/L	25.8	33.3	33.6	26.5	19.3	25.7	29.8	36.2	35.2	37.3	30.6	--	30.3	37.3	19.3	5.0	11
Chlorine, Free		mg/L	0.0	0.0	0.1	3.0	2.9	2.2	0.3	0.4	0.2	0.3	0.1	--	0.9	3.0	0.0	0.0	11
Chlorine, Total		mg/L	3.7	3.8	3.9	3.0	3.0	2.4	3.1	2.7	3.6	3.6	3.5	--	3.3	3.9	2.4	0.0	11
Color	15 S	Units	2	8	2	4	0	0	0	0	0	0	0	--	1	8	0	0	11
Dissolved Oxygen		mg/L	13.3	19.5	--	16.8	13.6	10.0	11.6	10.5	12.0	16.1	14.3	--	13.8	19.5	10.0	0.0	10
Fluoride	4.0/2.0 P/S	mg/L	0.8	0.8	0.9	0.8	0.8	0.8	0.9	0.9	1.1	1.0	0.8	--	0.9	1.1	0.8	0.2	11
Hardness, Calcium		mg/L	56	89	65	81	79	90	107	46	103	95	109	--	84	109	46	-	11
Hardness, Total		mg/L	83	123	86	112	136	139	139	134	142	162	165	--	129	165	83	-	11
Methylene Blue Activated Substances	0.5 S	mg/L	--	--	--	--	--	--	BQL	--	--	--	--	--	BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)		mg/L	1.26	1.08	1.11	BQL	--	BQL	0.78	0.60	0.67	0.69	0.64	--	0.68	1.26	BQL	0.05	10
N, Nitrate (Nitrate as N)	10 P	mg/L	1.0	1.5	1.2	1.1	0.9	0.9	0.2	0.2	0.5	0.3	0.9	--	0.8	1.5	0.2	0.2	11
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	0.01	BQL	--	--	--	BQL	BQL	BQL	0.01	0.01	--	BQL	0.01	BQL	0.01	8
pH	6.5-8.5 S	Units	7.5	7.3	7.8	7.6	7.6	7.4	7.4	7.6	7.3	7.5	7.6	--	7.5	7.8	7.3	-	11
Phosphate as Phosphorous		mg/L	0.45	0.81	0.75	0.64	0.66	0.60	0.39	0.26	0.45	0.44	0.43	--	0.53	0.81	0.26	0.20	11
Solids, Total		mg/L	156	198	197	201	197	206	252	240	250	278	247	--	220	278	156	1	11
Solids, Total Dissolved	500 S	mg/L	144	178	187	--	193	234	--	218	236	265	228	--	209	265	144	1	9
Solids, Total Suspended		mg/L	BQL	BQL	--	BQL	--	BQL	--	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	1	8
Specific Conductivity		µmhos/cm	232	340	293	311	315	373	401	402	431	456	400	--	359	456	232	0	11
Sulfate	250.0 S	mg/L	14.5	21.1	15.9	16.6	39.1	34.4	50.5	53.1	49.8	58.6	35.5	--	35.4	58.6	14.5	5.0	11
Taste		Units	1	1	2	2	2	2	2	2	4	2	3	--	2	4	1	1	11
Temperature		°C	9.9	4.3	9.0	10.3	18.7	24.3	27.6	26.2	21.3	17.2	14.2	--	16.6	27.6	4.3	-	11
Threshold Odor Number	3 S	Units	3	8	7	7	7	3	3	3	1	7	7	--	5	8	1	0	11
Total Organic Carbon		mg/L	2.2	2.2	2.4	1.6	1.7	2.0	2.3	2.4	2.3	2.5	3.0	--	2.2	3.0	1.6	0.5	11
Turbidity	≤5 P	NTU	0.15	0.10	0.35	0.20	0.15	0.10	0.10	0.10	0.10	0.10	0.15	--	0.15	0.35	0.10	0.00	11

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 01/01/2007 TO 12/31/2007
Distribution Site Representing Corbalis Treatment Plant**

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	--	--	87.4	--	--	44.9	--	--	39.8	--	--	43.0	87.4	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	30.3	--	--	32.9	--	--	41.9	--	--	42.3	--	--	36.9	42.3	30.3	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	--	--	--	32.5	--	--	36.4	--	--	41.0	--	--	36.6	41.0	32.5	0.5	3
Chromium	100 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Copper	1300 AL	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	25.0	11
Iron	300 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	60	11
Lead	15 AL	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Magnesium		mg/L	5.9	--	--	8.2	--	--	13.2	--	--	13.7	--	--	10.3	13.7	5.9	0.5	4
Manganese	50 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	25.0	11
Mercury	2 P	µg/L	--	--	--	--	--	--	BQL	--	--	--	BQL	--	BQL	BQL	BQL	0.50	2
Nickel	100 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Potassium		mg/L	2.0	--	--	1.9	--	--	3.2	--	--	3.8	--	--	2.7	3.8	1.9	0.5	4
Selenium	50 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Silicon		mg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	4	4
Silver	100 S	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Sodium		mg/L	13.8	14.5	21.2	15.1	13.4	21.3	23.0	26.7	23.2	29.3	22.0	--	20.3	29.3	13.4	5.0	11
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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