

**CITY OF ANN ARBOR CHEMICAL ANALYSIS FISCAL YEAR 2010-2011  
FINISHED WATER**

Parameter	July	August	September	October	November	December	January	February	March	April	May	June	Average
Total Alkalinity **	65	67	59	59	59	45	49	58	50	60	74	81	60
Total Hardness **	112	127	138	153	162	164	160	169	166	152	141	132	148
Non-Carbonate Hardness**	47	60	79	94	103	120	111	111	117	93	68	51	88
Calcium (Ca++) *	30.3	35.6	37.3	38.3	44.2	34.6	29.0	41.2	38.0	37.4	40.2	42.5	37.4
Magnesium (Mg++) *	8	4	10	13	12	9	16	17	14	14	9	7	11
Sulfate (SO4) *	53	45	67	63	85	70	63	76	88	66	54	53	65
Chloride (Cl-) *	78	82	103	104	109	180	185	145	134	122	106	85	119
Phosphours, meta (PO4)3-*	0.29	0.17	0.10	0.14	0.17	0.13	0.27		0.25	0.17	0.17	0.13	0.18
Iron (Fe++) *	<.055	<0.055	<0.055		<.21	<0.055	<.213	0.760			<0.055		<0.076
Sodium (Na+) *	44	47	45	52	53		72						52
Ammonia (NH3-N) *	0.14	0.11	0.13	0.09	0.09	0.15	0.22	0.07	0.14	0.14	0.11	0.12	0.13
Turbidity (NTU)	0.05	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.06	0.05	0.04
Color	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.7	1.2	1.9	1.8	0.6
Total Solids *						490		390		343	331	500	411
pH	9.3	9.3	9.3	9.3	9.3	9.3	9.0	9.0	9.0	9.0	9.3	9.3	9.2
Fluoride (F-) *	0.89	0.92	0.91	1.02	0.97	0.91	0.77	0.68	0.68	0.68	0.67	0.69	0.82
Odor	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature C	23.5	22.9	18.5	13.9	9.4	6.3	4.0	4.6	6.6	10.9	15.9	21.2	13.1
Chlorine (Free) *	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chlorine (Total) *	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Total Organic Carbon *	2.43	2.50	2.32	2.63	2.03	2.35	2.36		2.50		2.90		2.45
Conductivity (umhos)				592	704		655		704	584	560	502	614
Nitrite - N	9.2	8.8	7.6	8.0	6.9	23.2	23.9	33.1	33.7	18.1	25.5	14.4	17.7
Nitrate - N	0.70	0.60	0.50	0.40	0.50	0.60	0.80						0.59
Trihalomethanes	6.8	2.5	2.5	2.5	<0.5	<0.5	<0.5	<0.5					2.0
Bacti. Anal. M.F. #/100ml	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Heterotrophic Count #/1ml	6	107	5	7	22	12	14	14	18	4	10	3	18
Langelier Index	1.19	0.76	1.15	0.62	0.62	0.37	0.32	0.53	0.47	0.74	1.23	1.59	0.80

\* mg/l

\*\* mg/l as CaCO3