

SUMMARY OF **HURON RIVER** WATER QUALITY
CITY OF ANN ARBOR

Ann Arbor Water Treatment Plant
919 Sunset Road, Ann Arbor, MI 48103

Year Analyzed	Compound	Results	MDL
2002	Algae	457/mL	1 /mL
2002	Alkalinity	219 mg/L as CaCO ₃	1 mg/L
2002	Ammonia	0.04 mg/L	0.01 mg/L
2002	Bromide	0.08 mg/L	0.01 mg/L
2002	Calcium	89 mg/L	1 mg/L
2002	Chloride	79 mg/L	1 mg/L
2002	Chlorophyll	5.1 µg/m ³	0.1 µg/m ³
2002	Conductivity	635 µS	1 µS
2002	Color	25 units	1 unit
2002	Cryptosporidium	ND	1.1-5.3/100 L
2002	Fluoride	0.24 mg/L	0.01 mg/L
2002	Giardia	ND	1.1-5.3/100 L
2002	Hardness	290 mg/L	1 mg/L
2002	Heterotrophic Plate Count	38882 cfu/mL	1 cfu/mL
2002	Magnesium	19 mg/L	1 mg/L
2002	Nitrate	0.49 mg/L	0.01 mg/L
2002	Nitrite	6.1 µg/L	1 µg/L
2002	Odor	1.5 TON	1 TON
2002	pH	8.1	0.1
2002	Phosphorus (total)	0.02 mg/L	0.01 mg/L
2002	Sodium	39.5 mg/L	0.1 mg/L
2002	Sulfate	54 mg/L	1 mg/L
2002	Temperature	12.2 °C	0.1 °C

ND = none detected; MDL = method detection limit

2002	Total Solids	430 mg/L	1 mg/L
2002	Total Organic Carbon	5.2 mg/L	0.2 mg/L
2002	Turbidity	1.7 NTU	0.1 NTU
2002	UV254	0.181 cm ⁻¹	0.009 cm ⁻¹
2000	Enteric Virus	ND	1/100 L
2002	Total Coliform	267/100 mL	1/100 mL
2002	E. Coli	5/100 ml	1/100 mL
2002	Enterococcus	15/100 mL	1/100 mL
2000	Gross Alpha	1.1 pCi/L	1.0 pCi/L
2000	Gorss Beta	ND	2.4 pCi/L
Metals			
2002	Aluminum	18.6 ug/L	2.0 ug/L
2002	Antimony	ND	2.0 ug/L
2002	Beryllium	ND	1.0 ug/L
2002	Arsenic	2.2 ug/l	1.0 ug/l
2002	Thallium	ND	1.0 ug/L
2002	Barium	71 ug/L	10 ug/L
2002	Cadmium	ND	0.2 ug/L
2002	Copper	0.14 mg/L	0.04 mg/L
2002	Chromium	ND	1 ug/L
2002	Iron	0.10 mg/L	0.05 mg/L
2002	Lead	ND	0.5 µg/L
2002	Mercury	ND	0.2 ug/L
2002	Manganese	12 ug/L	10 ug/L
2002	Nickel	ND	1.0 ug/L
2002	Selenium	ND	2.0 ug/L
2002	Silver	1.9 ug/L	0.2 ug/L
2002	Zinc	ND	20 ug/L

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VOLATILE ORGANICS			
1998	Acetone	ND	5.0 µg/L
1998	Acrolein	ND	5.0 µg/L
1998	Acrylonitril	ND	1.0 µg/L
1998	Allyl chloride	ND	5.0 µg/L
1998	butyl-Acrylate	ND	1.0 µg/L
1998	ethyl-Acrylate	ND	1.0 µg/L
2001	Benzene	ND	0.5 µg/L
1997	Bis(2-chloroethoxy) methane	ND	10.0 µg/L
1997	Bis (2-chloroethyl) ether	ND	5.0 µg/L
1997	Bis (2-chloroisopropyl) ether	ND	5.0 µg/L
2001	Bromobenzene	ND	0.5 µg/L
2001	Bromochloromethane	ND	0.5 µg/L
2001	Bromodichloromethane	ND	0.5 µg/L
2001	1,2-Bromoethane	ND	0.5 µg/L
2001	Bromoform	ND	0.5 µg/L
2001	Bromomethane	ND	0.5 µg/L
1998	2-Butanone (MEK) (Methyl ethyl ketone)	ND	5.0 µg/L
1998	Carbon disulfide	ND	5.0 µg/L
2001	Carbon tetrachloride	ND	0.5 µg/L
1998	Chloroacetonitrile	ND	5.0 µg/L
2001	Chlorobenzene	ND	0.5 µg/L
1998	1-Chlorobutane	ND	5.0 µg/L
2001	Chloroethane	ND	0.5 µg/L
1996	2-Chloroethyl vinyl ether	ND	1 µg/L
2001	Chloroform	ND	0.5 µg/L
2001	Chloromethane	ND	0.5 µg/L

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1998	Chloroprene	ND	5.0 µg/L
2001	2-Chlorotoluene (o-)	ND	0.5 µg/L
2001	4-Chlorotoluene (p-)	ND	0.5 µg/L
2001	cis-1,2-Dichloroeth(yl)ene	ND	0.5 µg/L
2001	cis-1,3-Dichloroprop(yl)ene	ND	0.5 µg/L
1998	Cyanogen Chloride	ND	0.2 µg/L
1998	Cyclohexanone	ND	5.0 µg/L
2001	Dibromochloromethane	ND	0.5 µg/L
2001	1,2-Dibromo-3-chloropropane	ND	0.5 µg/L
2001	Dibromomethane	ND	0.5 µg/L
2001	1,2-Dichlorobenzene	ND	0.5 µg/L
2001	1,3-Dichlorobenzene	ND	0.5 µg/L
2001	1,4-Dichlorobenzene	ND	0.5 µg/L
2001	1,1-Dichloroethane	ND	0.5 µg/L
2001	1,2-Dichloroethane	ND	0.5 µg/L
2000	1,2-Dibromoethane (EDB)	ND	0.1 µg/L
2001	1,1-Dichloroeth(yl)ene	ND	0.5 µg/L
2001	1,2-Dichloropropane	ND	0.5 µg/L
2001	1,3-Dichloropropane	ND	0.5 µg/L
2001	2,2-Dichloropropane	ND	0.5 µg/L
1998	1,1-Dichloropropanone	ND	10 µg/L
2001	1,1-Dichloroprop(yl)ene	ND	0.5 µg/L
2001	trans-1,2-Dichloroeth(yl)ene	ND	0.5 µg/L
2001	Trans-1,2-Dichloroprop(yl)ene	ND	0.5 µg/L
1999	cis-1,3-Dichloroprop(yl)ene	ND	0.1µg/L
1999	trans-1,3-Dichloroprop(yl)ene	ND	0.1 µg/L
1998	trans-1,4-Dichloro-2-but(yl)ene	ND	0.5 µg/L
2001	Dichlorodifluoromethane	ND	0.5 µg/L

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2000	Dichloromethane	ND	0.5 µg/L
1998	Diethyl ether	ND	5.0 µg/L
1998	1,4-Dioxane	ND	1.0 µg/L
1998	Epichlorohydrin	ND	1.0 µg/L
1998	Ethyl methacrylate	ND	5.0 µg/L
2001	Ethylbenzene	ND	0.5 µg/L
2001	Hexachlorobutadiene	ND	0.5 µg/L
1998	Hexachloroethane	ND	5.0 µg/L
1998	2-Hexanone	ND	5.0 µg/L
1998	Isobutyl alcohol	ND	10 µg/L
1998	Isopropyl alcohol	ND	10 µg/L
2001	Isopropylbenzene	ND	0.5 µg/L
2001	4-Isopropyltoluene (p-)	ND	0.5 µg/L
1998	Methacrylonitrile	ND	5.0 µg/L
2001	Methylene chloride	ND	0.5 µg/L
1998	Methyl iodide (Iodomethane)	ND	5.0 µg/L
2000	Methyl-t-butyl ether (MTBE)	ND	0.5 µg/L
1998	Methylacrylate	ND	5.0 µg/L
1998	Methymethacrylate	ND	5.0 µg/L
1998	4-Methyl-2-pentanone (MIBK)	ND	5.0 µg/L
2001	n-Butylbenzene	ND	0.5 µg/L
2001	n-Propylbenzene	ND	0.5 µg/L
2001	Naphthalene	ND	0.5 µg/L
1998	Nitrobenzene	ND	5.0 µg/L
1998	2-Nitropropane	ND	10 µg/L
1998	Pentachloroethane	ND	5.0 µg/L
1998	Propionitrile	ND	5.0 µg/L
2001	sec-Butylbenzene	ND	0.5 µg/L

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2001	Styrene	ND	0.5 µg/L
2001	tert-Butylbenzene	ND	0.5 µg/L
1998	tert-Butyl alcohol	ND	5.0 µg/L
2001	1,1,1,2-Tetrachloroethane	ND	0.5 µg/L
2001	1,1,2,2-Tetrachloroethane	ND	0.5 µg/L
2001	Tetrachloroeth(yl)ene	ND	0.5 µg/L
1998	Tetrahydrofuran	ND	5.0 µg/L
2001	Toluene	ND	0.5 µg/L
2001	1,2,3-Trichlorobenzene	ND	0.5 µg/L
2001	1,2,4-Trichlorobenzene	ND	0.5 µg/L
2001	1,1,1-Trichloroethane	ND	0.5 µg/L
2001	1,1,2-Trichloroethane	ND	0.5 µg/L
2001	Trichloroeth(yl)ene	ND	0.5 µg/L
2001	1,2,3-Trichloropropane	ND	0.5 µg/L
2001	Trichlorofluoromethane	ND	0.5 µg/L
1998	Trichlorotrifluoromethane	ND	0.5 µg/L
1998	1,2,3-Trimethylbenzene	ND	0.1 µg/L
2001	1,2,4-Trimethylbenzene	ND	0.5 µg/L
2001	1,3,5-Trimethylbenzene	ND	0.5 µg/L
1998	Vinyl acetate	ND	10.0 µg/L
2001	Vinyl chloride	ND	0.5 µg/L
2001	Xylenes, total	ND	0.5 µg/L
PESTICIDES/ HERBICIDES			
2001	Acenaphthene	ND	0.1 µg/L
2001	Acenaphthylene	ND	0.1 µg/L
1997	Acetochlor	ND	0.1 µg/L
2001	Alachlor (Lasso)	ND	0.1 µg/L

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2000	Aldicarb	ND	0.5 µg/L
2000	Aldicarb Sulfone	ND	0.4 µg/L
2000	Aldicarb Sulfoxide	ND	0.5 µg/L
2001	Aldrin	ND	0.1 µg/L
1998	alpha-BHC	ND	0.05 µg/L
2000	alpha-Chlordane	ND	0.1 µg/L
1997	Ametryn	ND	0.1 µg/L
1997	Anilazine	ND	0.5 µg/L
1999	Anthracene	ND	0.1 µg/L
1997	Aroclor 1016	ND	5.0 µg/L
1997	Aroclor 1221	ND	1.0 µg/L
1997	Aroclor 1232	ND	5.0 µg/L
1997	Aroclor 1242	ND	1.0 µg/L
1997	Aroclor 1248	ND	1.0 µg/L
1997	Aroclor 1254	ND	1.0 µg/L
1997	Aroclor 1260	ND	1.0 µg/L
1997	Aspon	ND	0.1 µg/L
1997	Atraton	ND	0.1 µg/L
2001	Atrazine	ND	0.1 µg/L
1997	Azinphos-ethyl	ND	0.5 µg/L
1997	Azinphos-methyl	ND	0.1 µg/L
1997	Azobenzene	ND	0.2 µg/L
1990	Barban	ND	5 µg/L
1997	Bendiocarb	ND	0.5 µg/L
1997	Benfluralin	ND	0.1 µg/L
2001	Benzo[a]anthracene	ND	0.1 µg/L
2001	Benzo[a]pyrene	ND	0.02 µg/L
2001	Benzo[b]fluoranthene	ND	0.1 µg/L

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2001	Benzo[k]fluoranthene	ND	0.1 µg/L
2001	Benzo[g,h,i]perylene	ND	0.1 µg/L
1998	beta-BHC	ND	0.05 µg/L
1997	Bolstar	ND	0.1 µg/L
1997	Bromacil	ND	0.1 µg/L
2001	Butachlor	ND	0.1 µg/L
1997	Butylate	ND	0.1 µg/L
1997	Butylbenzylphthalate	ND	1.0 µg/L
2000	Carbaryl	ND	0.5 µg/L
2000	Carbofuran	ND	0.9 µg/L
1997	Carbophenothion	ND	0.5 µg/L
1997	Carboxin	ND	0.1 µg/L
1998	Chlordane	ND	0.5 µg/L
1997	Chlorfenvinphos	ND	0.5 µg/L
1997	Chlorneb	ND	0.1 µg/L
1997	2-Chlorobiphenyl	ND	0.1 µg/L
1997	Chlorobenzilate	ND	0.1 µg/L
1997	2-Chloronaphthalene	ND	0.2 µg/L
1997	Chloropropylate	ND	0.1 µg/L
1997	Chlorothalonil	ND	0.1 µg/L
1997	Chloroprotham	ND	0.1 µg/L
1997	Chloropyrifos	ND	0.1 µg/L
1997	Chloropyrifos methyl	ND	0.5 µg/L
1997	Chrysene	ND	0.1 µg/L
1997	Clomazone	ND	0.1 µg/L
1997	Clopyralid	ND	10 µg/L
1997	Coumaphos	ND	0.1 µg/L
1997	Crotoxyphos	ND	0.5 µg/L

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1997	Cyanazine	ND	0.1 µg/L
1997	Cycloate	ND	0.1 µg/L
1997	DCPA	ND	0.1 µg/L
1998	4,4'-DDD	ND	0.1 µg/L
1998	4,4'-DDE	ND	0.1 µg/L
1998	4,4'-DDT	ND	0.1 µg/L
2001	Dalapon	ND	1.0 ug/L
1998	delta-BHC	ND	0.05 µg/L
1997	Demeton	ND	0.1 µg/L
1997	Desethylatrazine	ND	1.0 µg/L
1997	Desisopropylatrazine	ND	1.0 µg/L
2001	Dibenzo[a,h]anthracene	ND	0.1 µg/L
2001	Di(2-ethylhexyl) adipate	ND	0.6 µg/L
2001	Di(2-ethylhexyl) phthalate	ND	0.6µg/L
1997	Diazinon	ND	0.1 µg/L
2001	Dicamba	ND	0.1 µg/L
1997	Dichlobenil	ND	0.1 µg/L
1997	Dichlofenthion	ND	0.1 µg/L
1997	Dichloran	ND	0.1 µg/L
1997	2,3-Dichlorobiphenyl	ND	0.1 µg/L
2001	2,4-Dichlorophenoxy acetic acid	0.5	0.1 µg/L
1997	Dichlorvos	ND	0.1 µg/L
1997	Dicrotophos	ND	0.5 µg/L
2001	Dieldrin	ND	0.1 µg/L
1997	Diethylphthalate	ND	0.6 µg/L
1997	Dimethoate	ND	0.1 µg/L
1997	Dimethylphthalate	ND	1.0 µg/L
1997	Di-n-butylphthalate	ND	1.0 µg/L

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1997	2,4-Dinitrotoluene	ND	0.1 µg/L
1997	2,6-Dinitrotoluene	ND	0.1 µg/L
1997	Di-n-octylphthalate	ND	1.0 µg/L
2001	Dinoseb	ND	0.1 µg/L
1997	Dioxation	ND	0.5 µg/L
1997	Diphenamid	ND	0.1 µg/L
1997	Disulfoton	ND	0.1 µg/L
1997	Disulfoton sulfone	ND	0.1 µg/L
1997	Disulfoton sulfoxide	ND	1.0 µg/L
1997	Dyfonate	ND	0.1 µg/L
1998	alpha-Endosulfan	ND	0.1 µg/L
1998	beta-Endosulfan	ND	0.1 µg/L
1998	Endosulfan sulfate	ND	0.1 µg/L
2001	Endrin	ND	0.01 µg/L
1998	Endrin aldehyde	ND	0.1 µg/L
1997	EPN	ND	0.5 µg/L
1997	EPTC	ND	0.1 µg/L
1997	Esfenvalerate	ND	0.5 µg/L
1997	Ethalfuralin	ND	0.1 µg/L
1997	Ethion	ND	5.0 µg/L
1997	Ethoprop	ND	0.1 µg/L
1997	Etridiazole	ND	0.1 µg/L
1997	Famphur	ND	0.1 µg/L
1997	Fenami(no)phos	ND	0.1 µg/L
1997	Fenarimol	ND	0.1 µg/L
1997	Fenitrothion	ND	0.5 µg/L
1997	Fenoxyp-ethyl	ND	5.0 µg/L
1997	Fensulfothion	ND	0.5 µg/L

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1997	Fenthion	ND	0.1 µg/L
1997	Fluazifop-Butyl	ND	0.1 µg/L
1997	Fluchloralin	ND	0.1 µg/L
1997	Fluothane	ND	0.1 µg/L
1997	Fluometuron	ND	0.1 µg/L
2001	Fluorene	ND	0.1 µg/L
1997	Fluridone	ND	0.1 µg/L
2001	gamma-BHC (Lindane)	ND	0.02 µg/L
2000	gamma-Chlordane	ND	0.1 µg/L
2001	Heptachlor	ND	0.04 µg/L
2001	Heptachlor epoxide	ND	0.02 µg/L
1997	2,2',3,3',4,4',6-Heptachlorobiphenyl	ND	0.1 µg/L
2001	Hexachlorobenzene	ND	0.1 µg/L
1997	2,2',4,4',5,6'-Hexachlorobiphenyl	ND	0.1 µg/L
1997	Hexachlorobutadiene	ND	0.2 µg/L
2001	Hexachlorocyclopentadiene	ND	0.1 µg/L
1997	Hexachloroethane	ND	0.2 µg/L
1997	Hexazinone	ND	0.1 µg/L
2000	3-Hydroxycarbofuran	ND	0.5 µg/L
2001	Indeno[1,2,3-cd]pyrene	ND	0.1 µg/L
1997	Iprodione	ND	0.5 µg/L
1998	Isodrin	ND	0.05 µg/L
1997	Isofenphos	ND	0.5 µg/L
1997	Isophorone	ND	0.1 µg/L
1998	Kepone	ND	0.1 µg/L
1997	Leptophos	ND	0.5 µg/L
1997	Malathion	ND	0.1 µg/L
1997	Merphos	ND	0.1 µg/L

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1997	Metalaxyl	ND	0.5 µg/L
2000	Methomyl	ND	0.5 µg/L
2001	Methoxychlor	ND	0.1 µg/L
2001	1-Methyl naphthalene	ND	0.1 µg/L
1997	2-Methyl naphthalene	ND	0.1 µg/L
1997	Methyl paraoxon	ND	0.1 µg/L
1997	Methyl parathion	ND	0.5 µg/L
2001	Metolachlor (Dual)	ND	0.1 µg/L
2001	Metribuzin (Sencor)	ND	0.1 µg/L
1997	Metsulfuron-methyl	ND	0.5 µg/L
1997	Mevinphos	ND	0.1 µg/L
1997	MGK-264	ND	0.1 µg/L
1997	MGK-326	ND	0.1 µg/L
1997	Mirex	ND	0.5 µg/L
1997	Molinate	ND	0.1 µg/L
1997	Monocrotophos	ND	0.5 µg/L
1997	Naled	ND	0.5 µg/L
1997	Naphthalene	ND	0.2 µg/L
1997	Napropamide	ND	0.1 µg/L
1997	trans-Nonachlor	ND	0.1 µg/L
1997	Norflurazon	ND	0.1 µg/L
1997	2,2',3,3',4,5',6,6'- Octachlorobiphenyl	ND	0.1 µg/L
1997	Oryzalin	ND	0.5 µg/L
1997	Oxadiazon	ND	0.1 µg/L
2000	Oxamyl (Vydate)	ND	1 µg/L
1997	Oxyfluorfen	ND	0.5 µg/L
1997	Parathion	ND	0.5 µg/L

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1997	Pebulate	ND	0.1 µg/L
1997	Pendimethalin	ND	0.1 µg/L
1997	Pentachlorobenzene	ND	0.5 µg/L
1997	2,2',3',4,5-Pentachlorobiphenyl	ND	0.1 µg/L
2001	Pentachlorophenol	ND	0.04 µg/L
1997	cis-Permethrin	ND	0.1 µg/L
1997	trans-Permethrin	ND	0.1 µg/L
2001	Phenanthrene	ND	0.1 µg/L
1997	Phorate	ND	0.1 µg/L
1997	Phosmet	ND	0.5 µg/L
1997	Phosphamidon	ND	0.5 µg/L
2001	Picloram	ND	0.1 µg/L
1997	Profluralin	ND	0.1 µg/L
1997	Prometon	ND	0.1 µg/L
1997	Prometryn	ND	0.1 µg/L
1997	Pronamide	ND	0.1 µg/L
2001	Propachlor	ND	0.1 µg/L
1997	Propanil	ND	0.1 µg/L
1997	Propazine	ND	0.1 µg/L
1997	Propiconazole	ND	0.5 µg/L
1997	Prothiofos	ND	0.5 µg/L
1997	Pyrene	ND	0.1 µg/L
2001	Simazine	ND	0.07 µg/L
1997	Simetryn	ND	0.1 µg/L
1997	Stirofos	ND	0.1 µg/L
1997	Sulfotep	ND	0.5 µg/L
1998	2,4,5-T	ND	0.20 µg/L
2001	2,4,5-TP (Silvex)	ND	0.1 µg/L

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1997	Tebuthiuron	ND	1.0 µg/L
1997	TEPP	ND	5.0 µg/L
1997	Terbacil	ND	0.1 µg/L
1997	Terbufos	ND	0.1 µg/L
1997	Terbutryn	ND	0.1 µg/L
1997	1,2,4,5-Tetrachlorobenzene	ND	1.0 µg/L
1997	2,2',4,4'-Tetrachlorobiphenyl	ND	0.1 µg/L
1997	Thiabendazole	ND	5.0 µg/L
1997	Thiobencarb	ND	0.1 µg/L
1997	Thionazin	ND	0.5 µg/L
1998	Toxaphene	ND	1.0 µg/L
1997	Triademefon	ND	0.1 µg/L
1997	Tribufos (DEF)	ND	0.1 µg/L
1997	Trichlorfon	ND	5.0 µg/L
1997	2,4,5-Trichlorobiphenyl	ND	0.1 µg/L
1997	Trichloronate	ND	0.5 µg/L
1997	Tricyclazole	ND	0.1 µg/L
1997	Trifluralin	ND	0.1 µg/L
1997	Vernolate	ND	0.1 µg/L
1997	Vinclozolin	ND	0.5 µg/L

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