

# Pharmaceuticals and Personal Care Products in Drinking Water

## 2019

LC-MS-MS Endocrine Disruptors Positive Mode	Minimum Reporting Limit (ng/L)	Lake Ontario Raw Water (ng/L)	Lake Ontario Effluent Water (ng/L)	Otisco Lake Raw Water (ng/L)	Otisco Lake Effluent Water (ng/L)	Likely Source and/or Typical Use
1,7-Dimethylxanthine	10	ND	ND	ND	ND	
Acetaminophen	5	ND	ND	ND	ND	Pain Reliever
Albuterol	5	ND	ND	ND	ND	
Amoxicillin (semi-quantitative)	20	ND	ND	ND	ND	
Androstenedione	10	ND	ND	ND	ND	
Antipyrine	5	ND	ND	ND	ND	
Atenolol	5	ND	ND	ND	ND	
Atrazine	5	41	26	53	43	Herbicide
Azithromycin	20	ND	ND	ND	ND	
Bezafibrate	5	ND	ND	ND	ND	
Bromacil	5	ND	ND	ND	ND	
Caffeine	5	26	10	ND	11	Coffee, Tea, Soft Drinks
Carbadox	5	ND	ND	ND	ND	
Carbamazepine	5	ND	ND	ND	ND	
Carisoprodol	5	ND	ND	ND	ND	
Chloridazon	5	ND	ND	ND	ND	
Chlorotoluron	5	ND	ND	ND	ND	
Cimetidine(semi quantitative)	5	ND	ND	ND	ND	
Cotinine	10	ND	ND	ND	ND	
Cyanazine	5	ND	ND	ND	ND	
DACT	5	52	40	ND	ND	Herbicide
DEA	5	46	27	25	18	Corrosion Inhibitor
DEET	10	ND	ND	ND	ND	
Dehydronifedipine	5	ND	ND	ND	ND	
DIA	5	19	7.8	6.7	ND	Herbicide Metabolite
Diazepam	5	ND	ND	ND	ND	
Dilantin	20	ND	ND	ND	ND	
Ditiazem	5	ND	ND	ND	ND	
Diuron	5	ND	ND	ND	ND	
Erythromycin	10	ND	ND	ND	ND	
Flumequine	10	ND	ND	ND	ND	
Isoproturon	100	ND	ND	ND	ND	
Ketoprofen	5	ND	ND	ND	ND	

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Ketorolac	5	ND	ND	ND	ND	
Lidocaine	5	ND	ND	ND	ND	
Lincomycin	10	ND	ND	ND	ND	
Linuron	5	ND	ND	ND	ND	
Lopressor	20	ND	ND	ND	ND	
Meclofenamic Acid	5	ND	ND	ND	ND	
Meprobamate	5	ND	ND	ND	ND	
Metazochlor	5	ND	ND	ND	ND	
Nifedipine(semi quantitative)	20	ND	ND	ND	ND	
Norethisterone	5	ND	ND	ND	ND	
Oxolinic acid	5	ND	ND	ND	ND	
Pentoxifylline	5	ND	ND	ND	ND	
Primidone	5	ND	ND	ND	ND	
Progesterone	5	ND	ND	ND	ND	
Propazine	5	ND	ND	ND	ND	
Quinoline	5	ND	ND	ND	ND	
Simazine	5	ND	ND	ND	ND	
Sulfachloropyridazine	5	ND	ND	ND	ND	
Sulfadiazine	5	ND	ND	ND	ND	
Sulfadimethoxine	5	ND	ND	ND	ND	
Sulfamerazine	5	ND	ND	ND	ND	
Sulfamethazine	5	ND	ND	ND	ND	
Sulfamethizole	5	ND	ND	ND	ND	
Sulfamethoxazole	5	ND	ND	ND	ND	
Sulfathiazole	5	ND	ND	ND	ND	
TCEP	10	ND	ND	ND	ND	
T CPP	100	ND	ND	ND	ND	
TDCPP	100	ND	ND	ND	ND	
Testosterone	5	ND	ND	ND	ND	
Theobromine	10	ND	ND	ND	ND	
Theophylline (semi quantitative)	10	ND	ND	ND	ND	
Thiabendazole	5	ND	ND	ND	ND	
Trimethoprim	5	ND	ND	ND	ND	

## Pharmaceuticals and Personal Care Products in Drinking Water 2019

LC-MS-MS Endocrine Disruptors Negative Mode	Minimum Reporting Limit (ng/L)	Lake Ontario Raw Water (ng/L)	Lake Ontario Effluent Water (ng/L)	Otisco Lake Raw Water (ng/L)	Otisco Lake Effluent Water (ng/L)	Likely Source and/or Typical Use
2,4-D	5	ND	ND	16	11	Herbicide
4-nonylphenol - semi quantitative	400	ND	ND	ND	ND	
4-tert-Octylphenol	50	ND	ND	ND	ND	
Acesulfame-K	20	120	110	ND	22	Artificial Sweetner
Bendroflumethiazide	5	ND	ND	ND	ND	
BPA	10	ND	ND	ND	ND	
Butalbital	5	ND	ND	ND	ND	
Butylparaben	5	ND	ND	ND	ND	
Chloramphenicol	5	ND	ND	ND	ND	
Clofibrac Acid	5	ND	ND	ND	ND	
Diclofenac	5	ND	ND	ND	ND	
Estradiol	5	ND	ND	ND	ND	
Estrone	5	ND	ND	ND	ND	
Ethinyl Estradiol - 17 alpha	5	ND	ND	ND	ND	
Ethylparaben	20	ND	ND	ND	ND	
Gemfibrozil	5	ND	ND	ND	ND	
Ibuprofen	10	ND	ND	ND	ND	
Iohexal	10	31	35	ND	ND	Medicine used for x-rays
Iopromide	5	ND	ND	ND	ND	
Isobutylparaben	5	ND	ND	ND	ND	
Methylparaben	20	ND	ND	ND	ND	
Naproxen	10	ND	ND	ND	ND	
Propylparaben	5	ND	ND	ND	ND	
Sucralose	100	200	140	ND	ND	Artificial Sweetner
Triclocarban	20	ND	ND	ND	ND	
Triclosan	20	ND	ND	ND	ND	
Warfarin	5	ND	ND	ND	ND	