

Pharmaceuticals and Personal Care Products in Drinking Water

2018

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	5	ND	ND	ND	ND	
Acetaminophen	5	ND	ND	ND	ND	
Albuterol	5	ND	ND	ND	ND	
Amoxicillin (semi-quantitative)	20	ND	ND	ND	ND	
Androstenedione	10	ND	ND	ND	ND	
Atenolol	5	ND	ND	ND	ND	
Atrazine	5	49	21	52	34	Herbicide
Bezafibrate	5	ND	ND	ND	ND	
Bromacil	5	ND	ND	ND	ND	
Caffeine	10	16	ND	ND	ND	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	ND	ND	ND	ND	
DEA	5	45	21	25	16	Corrosion Inhibitor
DEET	10	ND	ND	ND	ND	
Dehydronifedipine	5	ND	ND	ND	ND	
DIA	5	18	ND	5.2	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	
Fluoxetine	5	ND	ND	ND	ND	
Isoproturon	100	ND	ND	ND	ND	
Ketoprofen	5	ND	ND	ND	ND	

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
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	
Metazachlor	5	ND	ND	ND	ND	
Metformin	5	ND	ND	ND	ND	
Metolachlor	5	ND	ND	5.1	ND	Herbicide against Grasses
Nifedipine(semi quantitative)	20	ND	ND	ND	ND	
Norethisterone	5	ND	ND	ND	ND	
OUST (Sulfameturon, methyl)	5	ND	ND	ND	ND	
Oxolinic acid	5	ND	ND	ND	ND	
Pentoxifylline	5	ND	ND	ND	ND	
Phenazone	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	5.1	ND	ND	ND	Herbicide
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	
TCPP	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

2018

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	7.4	ND	ND	ND	Herbicide
4-nonylphenol - semi quantitative	400	ND	ND	ND	ND	
4-tert-Octylphenol	50	ND	ND	ND	ND	
Acesulfame-K	20	87	220	ND	ND	Artificial Sweetner
Bendroflumethiazide	5	ND	ND	ND	ND	
BPA	10	ND	ND	ND	ND	Used to make plastics/resins
Butalbital	5	ND	ND	ND	ND	
Butylparaben	5	ND	ND	ND	ND	
Chloramphenicol	5	ND	ND	ND	ND	
Clofibric Acid	5	ND	ND	ND	ND	
Diclofenac	5	ND	ND	ND	ND	
Estradiol	5	ND	ND	ND	ND	
Estriol	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	34	ND	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	
Salicylic Acid	100	ND	ND	ND	ND	
Sucralose	100	220	ND	ND	ND	Artificial Sweetner
Triclocarban	20	ND	ND	ND	ND	
Triclosan	20	ND	ND	ND	ND	
Warfarin	5	ND	ND	ND	ND	