DEP Emerging Contaminant Monitoring Project 2019

DEP Emerging Contaminant Monitoring Project 2019  Quarter 4 Summary Results (ng/L unless otherwise indicated)	Sources	Standard	CroGH***	DEL18DT	DEL17	CatAlum	CWB1.5*4	EARCM*4	RDRRCM*4	MB-1	<u>N5-1</u>	N12	BG9	WHIP	<u>E9</u>	<u>E10</u>	<u>E11</u>
Compound			10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19
UCMR3	Erosion of natural deposits	1500 (EPA health ref level)	66	16	16	14	16	13	15	170		38		85	220	310	160
Strontium (ug/L) Vanadium (ug/L)	Erosion of natural deposits Erosion of natural deposits	21 (EPA health ref level)	06 ND*	ND	ND	ND	ND	ND	ND	0.26	160 0.38	1.8	380 0.51	0.28	ND	ND	0.23
Hexavalent Chromium (ug/L)	Erosion of natural deposits	10 (Califonia MCL)	ND	0.13	0.15	0.12	0.12	0.16	0.15	ND	ND	0.16	ND	0.14	ND	0.23	ND
Chlorate (ug/L)	Pesticide runoff, DBP)	210 (EPA health ref level)	ND	ND	ND	ND	ND	ND	ND	310	36	160	ND	ND	ND	ND	ND
1,4- Dioxane (ug/L)	Solvents	1 (NYS proposed MCL)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3
N-ethyl perfluoroctanesulfonamidoacetic acid (NEtFOSAA)	Consumer products	50,000 (NYS UOC MCL)**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSSA)	Consumer products	50,000 (NYS UOC MCL)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorobutanesulfonic acid (PFBS) Perfluorodecanoic acid (PFDA)	Consumer products Consumer products	50,000 (NYS UOC MCL) 50,000 (NYS UOC MCL)	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	4.1 ND	2.4 ND	ND ND	2.5 ND	2.0 ND	ND ND	57 3.4	4.4 ND
Perfluorododecanoic acid (PFDoA)	Consumer products	50,000 (NYS UOC MCL) 50,000 (NYS UOC MCL)	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND 2.2	ND 2.8	ND 30	ND
Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS)	Consumer products Consumer products	50,000 (NYS UOC MCL)	ND	ND	ND	ND	ND	ND	ND	4.2	ND	ND	2.5 2.4	2.3	ND	870	22 20
Perfluorohexanoic acid (PRHxA) Perfluorononanoic acid (PFNA)	Consumer products Consumer products	50,000 (NYS UOC MCL) 50,000 (NYS UOC MCL)	2.3 ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	3.2 ND	2.7 ND	ND ND	3.3 ND	3.6 ND	3.7 ND	300 140	42 7.8
Perfluorooctanoic acid (PFOA)	Consumer products	10 (NYS proposed MCL)	3.4	ND	ND	ND	ND	ND	ND	5.5	5.2	3.7	9.2	8.3	6.7	370	25
Perfluoroctanesulfonic acid (PFOS) Perfluorotetradecanoic acid ((PFTA)	Consumer products Consumer products	10 (NYS proposed MCL) 50,000 (NYS UOC MCL)	3.1 ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	8.4 ND	3.6 ND	3.1 ND	6.1 ND	5.0 ND	3.6 ND	1300 ND	20 ND
Perfluorotridecanoic acid (PFTrDA) Perfluoroundecanoic acid (PFUnA)	Consumer products Consumer products	50,000 (NYS UOC MCL) 50,000 (NYS UOC MCL)	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 4.6	ND ND
UCMR4	Consumer products	30,000 (N 1 3 OOC MCL)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.0	ND
Germanium (ug/L)			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese (ug/L)	Erosion of natural deposits	300 (NYS Secondary MCL)	59	22	39	44	50	41	40	400	320	42	480	28	600	17	550
α-HCH (ug/L) Chlomyrifos (ug/L)			ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Dimethipin (ug/L)			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethoprop (ug/L) Oxyfluorfen (ug/L)			ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Profenofos (ug/L)			ND	ND ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND
Tebuconazole (ug/L) Total Permethrin (trans and cis) (ug/L)			ND ND	ND	ND	ND ND	ND ND	ND	ND	ND ND	ND	ND	ND ND	ND	ND	ND	ND
Tribufos (ug/L)			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o - Toluidine (ug/L) Ouinolone (ug/L)			ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Butylated hydroxanisole (BHA) (ug/L)			ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1- butanol (ug/L)			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2- methoxyethanol (ug/L) 2- propen-1-ol (allyl alcohol) (ug/L)			ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Microcystin LA (ug/L)			ND	ND	ND	ND	ND	ND	ND	x	×		x	×	×		×
Microcystin-LF (ug/L)			ND	ND	ND	ND	ND	ND	ND	×	x	×	×	×	x	x	×
Microcystin-LR (ug/L) Microcystin-LY (ug/L)			ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	×	x x	× ×	x x	×	x x	x x	×
Microcystin-RR (ug/L)			ND	ND	ND	ND	ND	ND	ND	×	×	×	×	×	×	x	×
Microcystin-YR (ug/L) Anatoxin -a (ug/L)			ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	x x	x x	x x	x x	x x	x x	x x	x x
Cylindrospermopsin (ug/L) Nodularin-R (ug/L)			ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	×	×	×	×	×	x x	×	x x
	N	#0.000 Q.W.O.M.O.V.			ND		ND		ND		25	ND	X	X X		ND	
2,4-D 4-nonylphenol (semi-quantitative)	Pesticide	70,000 (NYS MCL)	25 ND	ND ND	ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND	ND ND	ND ND	ND ND	ND	ND ND
4-tert-octylphenol Acesulfame -K	Artificial sweetener	50,000 (NYS UOC MCL)	ND 110	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 31	ND 20	ND ND	ND 28	ND 100	ND ND	ND 120	ND ND
Bendroflumethiazide		,	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bisphenol A (BPA) Butalbital	Polycarbobate plastics	50,000 (NYS UOC MCL)	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	24 ND
Butylparaben			ND	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloramphenicol Clofibric Acid			ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Diclofenac Estradiol			ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Estriol			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Estrone Ethinyl-Estradiol - 17 - alpha	Reproductive hormone	50,000 (NYS UOC MCL)	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Ethylparaben			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gemfibrozil Ibuprofen			ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Iohexol	X-ray medication drug	50,000 (NYS UOC MCL)	36 ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	25 ND	ND ND	ND ND	ND ND
Iopromide Isobutylparaben			ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Methylparaben Naproxen			ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Propylparaben			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Salicylic Acid Sucralose	Artificial sweetener	50,000 (NYS UOC MCL)	ND 350	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 210	ND ND	ND ND	ND ND
Triclocarban	annous successor	2.,500 (*** 5 COC MCL)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Triclosan Warfarin			ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
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Quarter 4 Summary Results (ng/L unless otherwise indicated)	Sources	Standard	CroGH***	DEL18DT	DEL17	<u>CatAlum</u>	CWB1.5*4	EARCM*4	RDRRCM*4	MB-1	<u>N5-1</u>	<u>N12</u>	BG9	WHIP	<u>E9</u>	<u>E10</u>	<u>E11</u>
<u>Compound</u>			10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19
1,7-Dimethylxanthine Acetaminophen			10 ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 17	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Albuterol			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Amoxicillin (semi - quantitative) Androstenedione Atenolol Atrazine Bezafibrate Bromacil Caffeine Carbadox Carbamazepine Carisoprodol Chlorotoluron Cimetidine Cymazine DACT DEA DEET Debydronifedipine DIA Diazepam Dillantin Dilliazem Diluron Erythromycin Erythromycin Flumeqine Fluocetine Isoproturon Ketorolac Lidocaine Lidocaine Lidocaine Lincomycin Linuron Lopressor	Pesticide  Coffice, tea  Anti-convulsant drug  Local anesthetic drug	3,000 (NYS MCL)  50,000 (NYS UOC MCL)  50,000 (NYS UOC MCL)	ND N	ND N	ND N	ND N	ND N	ND N	ND N	ND N	ND N	ND N	ND N	ND N	ND N	ND N	ND N
Meclofenamic Acid Meprobamate Metazechlor Metformin Metolachlor Nifedipine	Diabetes treatment drug	50,000 (NYS UOC MCL)	ND ND ND 5.6 ND ND	ND ND ND ND ND ND	ND ND ND ND ND ND	ND ND ND ND ND ND	ND ND ND 10 ND ND	ND ND ND ND ND ND									
Norchisterone Sulfameturon Methyl Oxolinic acid Pentoxifylline Phenazone Primidone Progazine Quinoline Simazine Quinoline Simazine Sulfadinzine Sulfamethoxine	Manufacture of dyes	50,000 (NYS UOC MCL)	ND N	ND N	ND N	ND N	ND	ND	ND N	ND	ND N	ND N	ND N	ND N	ND N	ND N	ND N
Sulfathiazole TCEP TCPP TDCPP TEcstosterone	Tris(2-chloroethyl) phosphate (flame retardant)	50,000 (NYS UOC MCL)	ND ND ND ND ND	ND ND 200 ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND 280 ND ND	ND ND 250 ND ND	ND ND ND ND ND	ND ND 320 ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND 15 690 ND ND
Theobromine Theophylline Thiabendazole	Chocolate, cocoa  Food preservative	50,000 (NYS UOC MCL) 50,000 (NYS UOC MCL)	ND 16 ND	ND ND ND													
Trimethoprim  RADIONUCLIDE SUITE			ND														
Radium 226 (pC/L) Radium 228 (pC/L) Alpha, Gross (pC/L) Beta, Gross (pC/L) Uranium (pC/L) Uranium (gr/L)	Natural or man-made sources Natural or man-made sources	15 (NYS MCL) 4 mrem/year (MCL)	ND ND ND ND ND ND	ND ND ND 3.2 ND ND	ND ND ND 3.3 ND ND	ND ND ND ND ND	ND ND ND 9.2 ND	ND ND ND 3.5 ND	ND ND ND 7.2 ND ND	ND ND ND 4.2 ND ND	ND ND 3.6*5 4.6 ND ND						
* ND = not detected  * NYS UOC MCL = New York State Unregulated Organic Contaminant Maximum Contaminant Level  ** NYS UOC MCL = New York State Unregulated Organic Contaminant Maximum Contaminant Level  ** - sampled at (ROI Be levation tap this quarter - Croton is off line  *4 - three outfalls sampled commencing with 3rd quarter sampling (per directive from S. Schindler during 05/2019 and 06/2019)  *5 - Alpha Gross + adjusted error																	