Table 12. Statistical summaries for field replicate samples for organic wastewater compounds (OWCs) detected in any sample for any primary/replicate sample pair.

[Bold text indicates suspected endocrine-disrupting compound (EDC)]

Compound	Footnote	Statistical summary of field replicate results					
		Number of field primary/replicate sample pairs	Number of field primary/replicate sample pairs that compound was detected at concentration greater than study reporting level in:		Summary statistics for relative percent differences for primary/replicate sample pairs that the compound was detected in both samples		
			Either sample	Both samples	Minimum	Median	Maximum
Human pharmaceutical compounds (HPCs)							
Caffeine (method 1), dissolved	1	6	2	2	4.1	6.4	8.6
Caffeine (method 4), dissolved	1	4	3	3	3.6	7.4	8.0
Caffeine (method 3), whole water	1	6	1	1	8.2	8.2	8.2
Carbamazepine, dissolved	1	6	2	2	5.9	7.3	8.8
Codeine, dissolved	1	6	1	1	16	16	16
Cotinine (method 1), dissolved	1	6	4	4	2.5	6.8	24
Cotinine (method 4), dissolved	1	4	2	2	4.1	4.1	4.1
Diltiazem, dissolved	1	6	1	1	11.6	12	12
Diphenhydramine, dissolved	1	6	2	2	5.7	7.1	8.5
Metformin, dissolved	1	6	1	1	5.3	5.3	5.3
Human and veterinary antibiotic compounds (HVACs)							
Ciprofloxacin, dissolved	1	10	1	1	12	12	12
Erythromycin (method 2), dissolved	1	10	3	3	1.1	7.5	13
Erythromycin-H_2O, dissolved	1	10	4	4	2.4	17	19
Ofloxacin, dissolved	1	10	1	1	22	22	22
Sulfamethoxazole (method 1), dissolved	1	6	1	1	6.5	6.5	6.5
Trimethoprim (method 1), dissolved	1	7	2	2	3.7	13	21
Trimethoprim (method 2), dissolved	1	10	3	3	3.6	13	22
Tylosin, dissolved	1	10	1	1	39	39	39
Major agricultural herbicides (MAHs)							
Atrazine, whole water	1	7	5	5	3.9	9.5	17
Metolachlor, dissolved	1	4	2	2	0	2.9	6
Metolachlor, whole water	1	7	4	4	1.6	8.4	14
Household, industrial, and minor agricultural use compounds (HIACs)							
1,4-Dichlorobenzene, dissolved	1	4	2	2	3.8	12	21
1,4-Dichlorobenzene, whole water	4	7	2	2	3.2	41	79
3,4-Dichlorophenyl isocyanate, whole water	4	6	3	3	23	46	86
4-*tert*-Octylphenol, whole water	1	7	2	2	5.4	12	19
7-Acetyl-1,1,3,4,4,6-hexamethyl tetrahydronaphthalene (AHTN), dissolved	1	4	2	2	0	2.3	4.7
7-Acetyl-1,1,3,4,4,6-hexamethyl tetrahydronaphthalene (AHTN), whole water	1	7	2	2	5.4	22	39
Anthraquinone, dissolved	1	4	2	2	6.9	7.8	8.7
Anthraquinone, whole water	1	7	1	1	18	18	18
Benzophenone, dissolved	1	4	2	2	7.4	9.0	11

Table 12. Statistical summaries for field replicate samples for organic wastewater compounds (OWCs) detected in any sample for any primary/replicate sample pair.—Continued

[Bold text indicates suspected endocrine-disrupting compound (EDC)]

Compound	Footnote	Statistical summary of field replicate results					
		Number of field primary/replicate sample pairs	Number of field primary/replicate sample pairs that compound was detected at concentration greater than study reporting level in:		Summary statistics for relative percent differences for primary/replicate sample pairs that the compound was detected in both samples		
			Either sample	Both samples	Minimum	Median	Maximum
Household, industrial, and minor agricultural use compounds (HIACs)—Continued							
Bromoform, dissolved	1	4	2	2	4.7	6.0	7.4
Camphor, dissolved	1	4	1	1	9.8	9.8	9.8
Carbaryl, dissolved	1	4	1	1	7.4	7.4	7.4
N,N-Diethyl-*meta*-toluamide (DEET), dissolved	1	4	3	3	0	0	1.2
N,N-Diethyl-*meta*-toluamide (DEET), whole water	1	7	3	3	7.8	30	40
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethyl cyclopenta-g-2-benzopyran (HHCB), dissolved	1	4	2	2	5.1	5.8	6.5
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethyl cyclopenta-g-2-benzopyran (HHCB), whole water	1	7	2	2	15	33	50
Indole, dissolved	1	4	2	2	12	13	15
Isophorone, dissolved	1	4	1	1	5.6	5.6	5.6
Nonylphenol diethoxylate (NP2EO), dissolved	1	4	2	2	4.5	28	52
Nonylphenol diethoxylate (NP2EO), whole water	1	7	1	1	11	11	11
Octylphenol diethoxylate (OP2EO), dissolved	1	4	1	1	19	19	19
Octylphenol monoethoxylate (OP1EO), dissolved	3	4	1	1	46	46	46
para-Cresol, dissolved	1	4	2	2	0	6.8	14
***para*-Nonylphenol (NP)**, dissolved	1	4	3	3	0	2.2	9.5
***para*-Nonylphenol (NP)**, whole water	1	7	1	1	12	12	12
Pentachlorophenol, dissolved	1	4	1	1	10	10	10
Phenol, dissolved	3	4	1	1	55	55	55
Tetrachloroethylene, dissolved	1	4	1	1	20	20	20
Tributyl phosphate, dissolved	1	4	3	3	0	5.4	7.7
Tributyl phosphate, whole water	1	7	3	3	0	5.2	8.0
Triclosan, dissolved	1	4	2	2	0	9.1	18
Triethyl citrate (ethyl citrate), dissolved	1	4	2	2	0	3.2	6.5
Triethyl citrate (ethyl citrate), whole water	1	7	2	2	1.2	13	26
Triphenyl phosphate, dissolved	1	4	3	3	0	3.4	4.1
Triphenyl phosphate, whole water	1	7	1	1	5.9	5.9	5.9
Tri(2-butoxyethyl)phosphate, dissolved	1	4	1	1	5.3	5.3	5.3

Table 12. Statistical summaries for field replicate samples for organic wastewater compounds (OWCs) detected in any sample for any primary/replicate sample pair.—Continued

[Bold text indicates suspected endocrine-disrupting compound (EDC)]

Compound	Footnote	Statistical summary of field replicate results					
		Number of field primary/replicate sample pairs	Number of field primary/replicate sample pairs that compound was detected at concentration greater than study reporting level in:		Summary statistics for relative percent differences for primary/replicate sample pairs that the compound was detected in both samples		
			Either sample	Both samples	Minimum	Median	Maximum
Household, industrial, and minor agricultural use compounds (HIACs)—Continued							
Tri(2-butoxyethyl)phosphate, whole water	2	7	2	1	4.5	4.5	4.5
Tri(2-chloroethyl)phosphate, dissolved	1	4	3	3	2.9	3.5	7.1
Tri(2-chloroethyl)phosphate, whole water	2	7	3	2	1.7	16	30
Tri(dichloroisopropyl)phosphate, dissolved	1	4	2	2	0	3.3	6.6
Tri(dichloroisopropyl)phosphate, whole water	1	7	2	2	22	30	38
Polyaromatic hydrocarbons (PAHs)							
1-Methylnaphthalene, whole water	1	7	1	1	9.5	9.5	9.5
2-Methylnaphthalene, whole water	1	7	1	1	23	23	23
Carbazole, dissolved	1	4	1	1	2.0	2.0	2.0
Fluoranthene, dissolved	1	4	1	1	5.6	5.6	5.6
Naphthalene, dissolved	1	4	1	1	4.0	4.0	4.0
Phenanthrene, dissolved	1	4	1	1	6.5	6.5	6.5
Phenanthrene, whole water	1	7	2	2	4.3	31	58
Pyrene, dissolved	1	4	1	1	0	0	0
Pyrene, whole water	3	7	1	1	68	68	68
Sterol compounds (SCs)							
3-*beta*-Coprostanol, dissolved	1	4	2	2	17	26	35
3-*beta*-Coprostanol, whole water	1	7	2	2	20	27	33
beta-Sitosterol, dissolved	1	4	1	1	29	29	29
beta-Stigmastanol, dissolved	3	4	1	1	55	55	55
Cholesterol, dissolved	1	4	2	2	0	16	32
Cholesterol, whole water	2	7	6	5	1.9	29	49

[1]When compound was detected at concentrations greater than the study reporting level in either sample of a primary/replicate sample pair, compound was always detected in both samples; median relative percent difference acceptable (less than 40 percent); field replicate results judged to be acceptable.

[2]For one primary/replicate sample pair, compound was detected at a concentration greater than the study reporting level in either the primary or replicate sample, but not both; median relative percent difference acceptable (less than 40 percent); all other quality-assurance/quality-control results for compound were acceptable; field replicate results judged to be acceptable.

[3]Compound was detected at a concentration greater than the study reporting level in both samples of a single primary/replicate sample pair; relative percent difference exceeded 40 percent; all other quality-assurance/quality-control results for compound were acceptable; field replicate results judged to be acceptable.

[4]Compound was detected at a concentration greater than the study reporting level in multiple primary/replicate sample pairs; median relative percent difference exceeded 40 percent; compound excluded from analyses and discussion related to occurrence of emerging contaminants in drinking water, wastewater effluents, and the Big Sioux River.