

Table 32. Summary of neutral organic wastewater compound (table 8) data determined by continuous liquid-liquid extraction for the spring 2005 Boulder Creek, Colorado (BC) and Fourmile Creek, Iowa (FC) Lagrangian samplings.
 [Site identifier defined in table 2; U, upstream from wastewater treatment plant (WWTP); E, WWTP effluent; BC-D3.6, BC-D7.4, FC-D2.9, and FC-D8.4 are sites downstream from the WWTP indicating distance in kilometers; number after compound indicates replicate analysis; µg/L, microgram per liter; <, less than method detection limit; --, not determined.]

Constituent	Unit	Boulder Creek					Fourmile Creek				
		BC-U	BC-E	BC-D3.6	BC-D7.4	Blank	FC-U	FC-E	FC-D2.9	FC-D8.4	Blank
Date		4/19/2005	4/19/2005	4/19/2005	4/19/2005	4/19/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005
Time		855	900	1145	1630	1430	740	745	1120	1540	--
Compound											
Bisphenol A 1	µg/L	0.032	0.14	0.015	0.083	0.008	<0.005	0.010	<0.005	0.005	<0.005
Bisphenol A 2	µg/L	0.023	0.033	0.054	0.006	<0.005	<0.005	<0.005	0.005	<0.005	<0.005
2[3]- <i>tert</i> -Butyl-4-methylphenol 1	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2[3]- <i>tert</i> -Butyl-4-methylphenol 2	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4- <i>tert</i> -Butylphenol 1	µg/L	<0.005	0.066	<0.005	0.029	<0.005	<0.005	0.032	0.010	0.014	<0.005
4- <i>tert</i> -Butylphenol 2	µg/L	<0.005	0.026	<0.005	<0.005	<0.005	<0.005	0.033	0.016	0.009	<0.005
Caffeine 1	µg/L	0.10	0.23	0.064	0.65	<0.005	0.037	0.015	0.026	0.041	<0.005
Caffeine 2	µg/L	0.055	0.14	0.13	0.065	<0.005	0.041	0.024	0.037	0.030	<0.005
Cholesterol 1	µg/L	0.10	3.0	0.20	2.2	<0.005	0.043	0.22	0.15	0.13	<0.005
Cholesterol 2	µg/L	0.092	1.9	1.1	0.71	<0.005	0.042	0.24	0.27	0.083	<0.005
Coprostanol 1	µg/L	<0.005	5.4	0.29	14	<0.005	<0.005	0.24	0.11	0.063	<0.005
Coprostanol 2	µg/L	<0.005	2.2	1.4	0.75	<0.005	<0.005	0.24	0.23	0.048	<0.005
2,6-Di- <i>tert</i> -butyl-1,4-benzoquinone 1	µg/L	0.26	1.4	0.76	0.99	<0.005	0.071	0.32	0.16	0.19	<0.005
2,6-Di- <i>tert</i> -butyl-1,4-benzoquinone 2	µg/L	0.33	0.58	0.77	0.28	<0.005	0.25	0.41	0.30	0.19	<0.005
2,6-Di- <i>tert</i> -butyl-4-methylphenol 1	µg/L	<0.005	0.051	0.017	0.022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,6-Di- <i>tert</i> -butyl-4-methylphenol 2	µg/L	0.013	0.010	0.013	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,6-Di- <i>tert</i> -butylphenol 1	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,6-Di- <i>tert</i> -butylphenol 2	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichlorobenzene 1	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.012	0.006	<0.005	0.006
1,2-Dichlorobenzene 2	µg/L	<0.005	0.033	0.023	<0.005	<0.005	<0.005	0.011	0.005	<0.005	<0.005
1,3-Dichlorobenzene 1	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006
1,3-Dichlorobenzene 2	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,4-Dichlorobenzene 1	µg/L	<0.005	0.35	0.10	<0.005	<0.005	<0.005	0.23	0.061	0.029	0.008
1,4-Dichlorobenzene 2	µg/L	<0.005	0.23	0.13	0.027	<0.005	<0.005	0.22	0.069	0.020	<0.005
N,N-Diethyl- <i>meta</i> -toluamide 1	µg/L	0.039	0.46	0.19	0.13	<0.005	<0.005	0.009	0.005	0.011	<0.005
N,N-Diethyl- <i>meta</i> -toluamide 2	µg/L	0.024	0.21	0.20	0.062	<0.005	0.006	0.011	0.011	0.009	<0.005
4-Ethylphenol 1	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4-Ethylphenol 2	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
5-Methyl-1H-benzotriazole 1	µg/L	<0.005	0.89	0.066	<0.005	<0.005	<0.005	0.25	0.084	0.062	<0.005
5-Methyl-1H-benzotriazole 2	µg/L	<0.005	0.31	0.35	<0.005	<0.005	<0.005	0.30	0.12	0.042	<0.005
4-Methylphenol 1	µg/L	<0.005	0.057	0.042	<0.005	<0.005	0.005	0.008	0.010	0.018	<0.005
4-Methylphenol 2	µg/L	<0.005	0.035	0.067	<0.005	<0.005	0.007	0.010	0.015	<0.005	<0.005
4-Nonylphenol 1	µg/L	0.10	0.84	0.19	0.92	<0.05	0.043	0.12	0.082	0.108	<0.05
4-Nonylphenol 2	µg/L	0.13	0.60	0.48	0.16	<0.05	0.15	0.28	0.22	0.073	<0.05
4-Nonylphenolmonoethoxylate 1	µg/L	0.058	5.6	0.27	0.58	<0.05	0.012	0.13	<0.05	<0.05	<0.05
4-Nonylphenolmonoethoxylate 2	µg/L	<0.05	3.8	0.69	0.16	<0.05	0.016	0.16	0.079	<0.05	<0.05
4-Nonylphenoldiethoxylate 1	µg/L	0.15	1.5	0.15	9.2	<0.05	<0.05	0.41	0.067	0.075	<0.05
4-Nonylphenoldiethoxylate 2	µg/L	<0.05	1.2	0.29	0.43	<0.05	<0.05	0.56	0.13	<0.05	<0.05
4-Nonylphenoltriethoxylate 1	µg/L	<0.05	0.73	<0.05	<0.05	<0.05	<0.05	0.17	<0.05	<0.05	<0.05
4-Nonylphenoltriethoxylate 2	µg/L	<0.05	0.34	<0.05	<0.05	<0.05	<0.05	0.39	<0.05	<0.05	<0.05
4-Nonylphenoltetraethoxylate 1	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4-Nonylphenoltetraethoxylate 2	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4- <i>normal</i> -Octylphenol 1	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4- <i>normal</i> -Octylphenol 2	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4- <i>tert</i> -Octylphenol 1	µg/L	0.012	0.17	0.054	0.067	0.008	<0.005	0.18	0.067	0.060	<0.005
4- <i>tert</i> -Octylphenol 2	µg/L	0.025	0.077	0.11	0.020	<0.005	0.010	0.21	0.093	0.043	<0.005
4- <i>tert</i> -Octylphenolmonoethoxylate 1	µg/L	<0.005	0.15	0.010	0.014	<0.005	<0.005	0.044	0.011	0.009	<0.005
4- <i>tert</i> -Octylphenolmonoethoxylate 2	µg/L	<0.005	0.098	0.024	0.006	<0.005	<0.005	0.046	0.015	0.007	<0.005
4- <i>tert</i> -Octylphenoldiethoxylate 1	µg/L	<0.005	0.35	<0.005	<0.005	<0.005	<0.005	1.1	0.24	0.14	<0.005
4- <i>tert</i> -Octylphenoldiethoxylate 2	µg/L	<0.005	0.24	<0.005	<0.005	<0.005	<0.005	1.2	0.34	0.099	<0.005

Constituent	Unit	BC-U	BC-E	BC-D3.6	BC-D7.4	Blank	FC-U	FC-E	FC-D2.9	FC-D8.4	Blank
4- <i>tert</i> -Octylphenoltriethoxylate 1	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.17	0.049	0.035	<0.005
4- <i>tert</i> -Octylphenoltriethoxylate 2	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.24	0.082	0.026	<0.005
4- <i>tert</i> -Octylphenoltetraethoxylate 1	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4- <i>tert</i> -Octylphenoltetraethoxylate 2	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4- <i>tert</i> -Octylphenolpentaethoxylate 1	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4- <i>tert</i> -Octylphenolpentaethoxylate 2	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4- <i>tert</i> -Pentylphenol 1	µg/L	<0.005	0.044	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4- <i>tert</i> -Pentylphenol 2	µg/L	<0.005	0.018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4-Propylphenol 1	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	0.005	<0.005
4-Propylphenol 2	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005
Triclosan 1	µg/L	0.009	0.58	0.077	0.20	<0.005	<0.005	0.033	0.013	0.011	<0.005
Triclosan 2	µg/L	<0.005	0.36	0.22	0.043	<0.005	<0.005	0.042	0.023	0.008	<0.005
Surrogate Standards											
d6 Bisphenol A 1	percent	110	70	45	56	87	22	12	27	85	13
d6 Bisphenol A 2	percent	93	60	130	1	89	23	22	100	50	0
d7 Cholesterol 1	percent	4	8	3	13	9	6	4	5	8	4
d7 Cholesterol 2	percent	2	3	11	11	10	6	6	11	5	0
d21 2,6-Di- <i>tert</i> -butyl-4-methylphenol 1	percent	28	5	5	2	22	4	2	2	6	21
d21 2,6-Di- <i>tert</i> -butyl-4-methylphenol 2	percent	41	2	6	4	29	3	2	4	4	0
d4 17β-Estradiol 1	percent	71	43	23	55	24	46	20	37	77	9
d4 17β-Estradiol 2	percent	65	29	79	14	20	32	25	73	47	0
4- <i>normal</i> -Nonylphenol 1	percent	56	20	16	33	36	60	21	40	87	32
4- <i>normal</i> -Nonylphenol 2	percent	50	11	47	4	30	37	24	74	56	0
4- <i>normal</i> -Nonylphenolmonoethoxylate 1	percent	27	26	15	43	18	45	33	39	80	13
4- <i>normal</i> -Nonylphenolmonoethoxylate 2	percent	27	18	39	28	17	40	41	80	49	0
4- <i>normal</i> -Nonylphenoldiethoxylate 1	percent	15	17	8	33	10	38	24	28	61	12
4- <i>normal</i> -Nonylphenoldiethoxylate 2	percent	17	10	26	15	5	33	32	64	39	0