

Supporting Information

A one year investigation of the occurrence of illicit drugs in wastewater from Brussels, Belgium

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Figure S2. Mean variations between seasons and months in mass loads (in g/day) of illicit drugs and metabolites in influent wastewater from the wastewater treatment plant of Brussels-North. COC: cocaine; BE: benzoylecgonine; EME: ecgonine methyl ester; AMP: amphetamine; MDMA: methylenedioxymethamphetamine; METH: methamphetamine; 6-MAM: 6-monoacetylmorphine; EDDP: ethylidenedimethyldiphenylpyrrolidine; MTD: methadone.

Table S1. Results of the analyses of the influent wastewater samples collected in March-April 2009. Concentrations are given in ng/L.

Date	Day	Flow rate (m ³ /day)	Conc COC	Conc BE	Conc EME	Conc 6-MAM	Conc AMP	Conc MDMA	Conc METH	Conc MTD	Conc EDDP	MTD/EDDP	COC/BE	EME/COC	EME/BE
2/03/09	Monday	252584	412	917	182	33	64	13	9	56	124	0.45	0.45	0.44	0.20
3/03/09	Tuesday	243287	340	866	218	26	56	6	3	47	105	0.45	0.39	0.64	0.25
4/03/09	Wednesday	261336	345	801	179	30	47	4	2	55	120	0.46	0.43	0.52	0.22
5/03/09	Thursday	247583	416	898	207	27	57	4	3	58	118	0.49	0.46	0.50	0.23
6/03/09	Friday	227271	387	965	247	26	63	5	2	65	130	0.50	0.40	0.64	0.26
7/03/09	Saturday	235106	498	1207	311	27	80	75	3	62	131	0.47	0.41	0.62	0.26
8/03/09	Sunday	390619	287	627	180	11	85	22	3	41	99	0.41	0.46	0.63	0.29
9/03/09	Monday	361553	225	506	114	14	50	10	3	39	79	0.49	0.44	0.51	0.23
10/03/09	Tuesday	371972	189	366	87	9	36	4	2	32	59	0.54	0.52	0.46	0.24
11/03/09	Wednesday	270537	368	702	163	21	56	5	3	45	88	0.51	0.52	0.44	0.23
12/03/09	Thursday	272277	318	674	158	17	50	4	2	51	112	0.46	0.47	0.50	0.23
13/03/09	Friday	260975	352	814	202	20	52	4	2	59	114	0.52	0.43	0.57	0.25
14/03/09	Saturday	246290	406	934	258	19	64	9	2	58	119	0.49	0.43	0.64	0.28
15/03/09	Sunday	240321	493	1014	238	24	73	23	3	52	116	0.45	0.49	0.48	0.23
16/03/09	Monday	248841	359	650	154	13	61	13	3	50	106	0.47	0.55	0.43	0.24
17/03/09	Tuesday	245472	310	635	144	16	52	9	3	56	108	0.52	0.49	0.46	0.23
18/03/09	Wednesday	243576	371	653	150	29	51	6	2	68	127	0.54	0.57	0.40	0.23
19/03/09	Thursday	244549	424	683	177	23	54	4	2	63	117	0.54	0.62	0.42	0.26
20/03/09	Friday	238079	388	766	184	16	61	5	2	70	128	0.55	0.51	0.47	0.24
21/03/09	Saturday	231617	418	834	231	18	59	8	2	56	110	0.51	0.50	0.55	0.28
22/03/09	Sunday	231568	362	689	173	15	56	8	2	66	121	0.55	0.53	0.48	0.25
23/03/09	Monday	275100	199	365	81	12	36	4	3	36	71	0.51	0.55	0.41	0.22
24/03/09	Tuesday	264678	169	357	89	10	39	4	3	38	91	0.42	0.47	0.53	0.25
25/03/09	Wednesday	289185	129	201	45	8	20	2	2	21	40	0.53	0.64	0.35	0.22
26/03/09	Thursday	337922	130	225	54	6	24	2	2	24	48	0.50	0.58	0.42	0.24
27/03/09	Friday	346884	212	436	102	8	32	2	1	37	76	0.49	0.49	0.48	0.23
28/03/09	Saturday	307919	181	389	94	5	31	4	2	24	45	0.53	0.47	0.52	0.24
29/03/09	Sunday	299501	311	597	155	13	59	14	6	36	71	0.51	0.52	0.50	0.26
30/03/09	Monday	275611	297	518	118	19	53	9	3	46	89	0.52	0.57	0.40	0.23
31/03/09	Tuesday	264083	313	512	127	20	49	5	3	50	99	0.51	0.61	0.41	0.25
1/04/09	Wednesday	262020	348	759	160	17	42	4	1	45	97	0.46	0.46	0.46	0.21
2/04/09	Thursday	257269	366	865	173	12	45	4	2	51	105	0.49	0.42	0.47	0.20
3/04/09	Friday	253928	590	1399	213	11	51	5	3	54	117	0.46	0.42	0.36	0.15
4/04/09	Saturday	240836	483	1184	268	18	53	9	2	52	108	0.48	0.41	0.55	0.23
5/04/09	Sunday	239800	539	1160	265	28	72	22	2	50	121	0.41	0.46	0.49	0.23
6/04/09	Monday	249069	375	838	182	20	59	12	1	47	118	0.40	0.45	0.49	0.22
7/04/09	Tuesday	238559	378	783	160	18	49	7	3	54	118	0.46	0.48	0.42	0.20
8/04/09	Wednesday	257782	358	739	159	16	39	5	2	45	112	0.40	0.48	0.44	0.22
9/04/09	Thursday	233768	354	755	143	15	52	6	3	52	115	0.45	0.47	0.40	0.19
10/04/09	Friday	234351	390	948	175	20	53	5	1	55	119	0.46	0.41	0.45	0.18

11/04/09	Saturday	222505	470	1156	243	30	49	10	2	59	129	0.46	0.41	0.52	0.21
12/04/09	Sunday	233090	465	1083	259	20	68	14	5	48	115	0.42	0.43	0.56	0.24
13/04/09	Monday	215590	440	971	261	20	67	120	4	54	129	0.42	0.45	0.59	0.27
14/04/09	Tuesday	246320	355	707	143	22	57	23	3	57	131	0.44	0.50	0.40	0.20
15/04/09	Wednesday	249362	340	672	134	17	50	6	2	52	122	0.43	0.51	0.39	0.20
16/04/09	Thursday	301398	272	618	120	12	39	4	2	49	103	0.48	0.44	0.44	0.19
17/04/09	Friday	313090	198	375	69	2	26	2	1	24	52	0.46	0.53	0.35	0.18
18/04/09	Saturday	260978	392	955	200	22	45	10	3	51	105	0.49	0.41	0.51	0.21
19/04/09	Sunday	240256	427	1027	229	29	62	30	3	52	109	0.48	0.42	0.54	0.22
20/04/09	Monday	243610	348	783	173	22	63	13	4	51	125	0.41	0.44	0.50	0.22
21/04/09	Tuesday	239423	325	672	141	20	45	6	3	56	120	0.47	0.48	0.43	0.21
22/04/09	Wednesday	239749	332	703	140	28	48	4	2	56	128	0.44	0.47	0.42	0.20
23/04/09	Thursday	218745	335	758	164	25	41	3	2	56	128	0.44	0.44	0.49	0.22
24/04/09	Friday	238323	362	840	175	20	49	3	3	58	124	0.47	0.43	0.48	0.21
25/04/09	Saturday	234398	418	1083	246	21	58	9	3	64	142	0.45	0.39	0.59	0.23
26/04/09	Sunday	324751	262	662	146	7	44	26	2	38	102	0.37	0.40	0.56	0.22
27/04/09	Monday	256585	245	546	112	14	64	11	4	42	95	0.44	0.45	0.46	0.21
28/04/09	Tuesday	240092	316	675	145	21	61	7	3	54	122	0.44	0.47	0.46	0.21
29/04/09	Wednesday	244262	328	773	166	21	43	4	2	56	132	0.42	0.42	0.51	0.21
30/04/09	Thursday	229898	378	883	161	19	45	4	3	60	136	0.44	0.43	0.43	0.18

Table S2. Results of the analyses of the influent wastewater samples collected in June-July 2009. Concentrations are given in ng/L.

Date	Day	Flow rate (m ³ /day)	Conc COC	Conc BE	Conc EME	Conc 6-MAM	Conc AMP	Conc MDMA	Conc METH	Conc MTD	Conc EDDP	MTD/EDDP	COC/BE	EME/COC	EME/BE
1/06/09	Monday	221875	399	732	176	24	64	70	9	81	121	0.67	0.55	0.44	0.24
2/06/09	Tuesday	224471	340	605	145	20	56	13	6	66	117	0.56	0.56	0.43	0.24
3/06/09	Wednesday	223602	323	667	151	26	48	5	4	61	119	0.51	0.48	0.47	0.23
4/06/09	Thursday	223879	361	753	197	3	44	4	3	83	110	0.75	0.48	0.55	0.26
5/06/09	Friday	221444	328	734	176	16	51	4	3	91	121	0.75	0.45	0.54	0.24
6/06/09	Saturday	217778	491	939	270	24	57	8	4	71	126	0.56	0.52	0.55	0.29
7/06/09	Sunday	233650	415	853	240	26	62	10	6	76	121	0.63	0.49	0.58	0.28
8/06/09	Monday	241530	335	662	158	27	86	6	4	76	114	0.67	0.51	0.47	0.24
9/06/09	Tuesday	334210	176	338	79	6	32	2	3	32	70	0.46	0.52	0.45	0.23
10/06/09	Wednesday	376457	134	249	58	4	15	2	3	23	41	0.56	0.54	0.43	0.23
11/06/09	Thursday	292566	169	323	80	8	29	1	3	30	47	0.64	0.52	0.47	0.25
12/06/09	Friday	247759	371	716	200	18	60	3	2	64	99	0.65	0.52	0.54	0.28
13/06/09	Saturday	231594	444	927	251	25	75	6	4	75	112	0.67	0.48	0.57	0.27
14/06/09	Sunday	269251	412	619	142	10	61	8	3	46	70	0.66	0.67	0.34	0.23
15/06/09	Monday	276484	292	501	121	15	59	5	4	65	112	0.58	0.58	0.41	0.24
16/06/09	Tuesday	236851	360	565	124	22	71	3	4	66	116	0.57	0.64	0.34	0.22
17/06/09	Wednesday	229732	374	595	172	26	73	3	4	65	125	0.52	0.63	0.46	0.29
18/06/09	Thursday	226308	344	681	193	22	97	2	3	66	129	0.51	0.51	0.56	0.28
19/06/09	Friday	222997	376	716	187	8	72	7	3	79	149	0.53	0.53	0.50	0.26
20/06/09	Saturday	237557	397	853	265	15	87	30	4	88	128	0.69	0.47	0.67	0.31
21/06/09	Sunday	273117	311	521	147	12	55	13	4	44	82	0.54	0.60	0.47	0.28
22/06/09	Monday	241453	327	574	144	20	75	7	4	66	109	0.61	0.57	0.44	0.25
23/06/09	Tuesday	220657	307	579	149	13	57	5	3	64	124	0.52	0.53	0.49	0.26
24/06/09	Wednesday	225269	365	572	174	14	60	3	4	67	123	0.54	0.64	0.48	0.30
25/06/09	Thursday	229475	332	591	169	12	64	4	3	66	126	0.52	0.56	0.51	0.29
26/06/09	Friday	222979	393	665	177	10	61	3	3	68	137	0.50	0.59	0.45	0.27
27/06/09	Saturday	229775	450	819	233	11	71	11	4	70	135	0.52	0.55	0.52	0.28
28/06/09	Sunday	214324	447	864	248	15	97	11	4	92	158	0.58	0.52	0.55	0.29
29/06/09	Monday	220864	360	677	196	17	82	9	3	87	147	0.59	0.53	0.54	0.29
30/06/09	Tuesday	209769	308	633	171	14	75	5	3	105	137	0.77	0.49	0.56	0.27
1/07/09	Wednesday	220805	335	624	154	11	66	4	3	83	120	0.69	0.54	0.46	0.25
2/07/09	Thursday	226417	347	664	157	12	67	3	3	79	124	0.64	0.52	0.45	0.24
3/07/09	Friday	209718	343	771	187	11	70	2	3	76	123	0.62	0.44	0.55	0.24
4/07/09	Saturday	200403	546	967	263	13	82	4	5	79	132	0.60	0.56	0.48	0.27
5/07/09	Sunday	217672	386	793	211	7	87	7	4	63	132	0.48	0.49	0.55	0.27
6/07/09	Monday	288051	236	462	110	8	51	5	3	56	114	0.49	0.51	0.47	0.24
7/07/09	Tuesday	289766	164	321	83	7	42	2	4	43	102	0.42	0.51	0.51	0.26
8/07/09	Wednesday	293176	180	383	91	4	46	1	4	37	76	0.49	0.47	0.51	0.24
9/07/09	Thursday	291191	157	352	79	3	43	1	3	35	58	0.60	0.45	0.50	0.22
10/07/09	Friday	206360	279	692	167	13	69	3	3	72	101	0.71	0.40	0.60	0.24
11/07/09	Saturday	305252	290	644	162	6	80	2	4	45	88	0.51	0.45	0.56	0.25
12/07/09	Sunday	220714	291	622	166	6	119	11	4	42	86	0.49	0.47	0.57	0.27

13/07/09	Monday	201526	272	591	149	8	91	6	3	70	109	0.64	0.46	0.55	0.25
14/07/09	Tuesday	210285	267	550	143	10	75	2	3	78	118	0.66	0.49	0.54	0.26
15/07/09	Wednesday	200369	271	577	137	11	69	1	3	85	121	0.70	0.47	0.51	0.24
16/07/09	Thursday	202397	275	599	145	15	78	3	3	98	128	0.77	0.46	0.53	0.24
17/07/09	Friday	263564	220	483	112	5	64	6	3	63	127	0.50	0.46	0.51	0.23
18/07/09	Saturday	245124	204	547	127	5	62	24	3	50	87	0.57	0.37	0.62	0.23
19/07/09	Sunday	320316	173	417	93	2	47	7	2	32	68	0.47	0.41	0.54	0.22
20/07/09	Monday	201139	242	548	129	7	75	9	3	65	105	0.62	0.44	0.53	0.24
21/07/09	Tuesday	202004	293	567	139	11	81	8	4	60	123	0.49	0.52	0.47	0.25
22/07/09	Wednesday	294091	155	302	78	5	62	3	3	41	103	0.40	0.51	0.50	0.26
23/07/09	Thursday	336772	133	249	58	3	51	1	3	28	63	0.44	0.53	0.44	0.23
24/07/09	Friday	264779	154	353	79	5	49	3	2	44	77	0.57	0.44	0.51	0.22
25/07/09	Saturday	188914	289	722	178	11	82	4	3	72	124	0.58	0.40	0.62	0.25
26/07/09	Sunday	178946	297	734	179	9	75	8	3	72	128	0.56	0.40	0.60	0.24
27/07/09	Monday	205061	225	471	112	9	76	5	3	68	137	0.50	0.48	0.50	0.24
28/07/09	Tuesday	193083	233	479	108	9	81	3	3	78	139	0.56	0.49	0.46	0.23
29/07/09	Wednesday	272070	187	383	91	8	47	2	2	56	132	0.42	0.49	0.49	0.24
30/07/09	Thursday	192680	244	529	139	9	76	1	5	67	114	0.59	0.46	0.57	0.26
31/07/09	Friday	192596	275	607	139	7	73	1	3	76	151	0.50	0.45	0.51	0.23

Table S3. Results of the analyses of the influent wastewater samples collected in September-October 2009. Concentrations are given in ng/L.

Date	Day	Flow rate (m ³ /day)	Conc COC	Conc BE	Conc EME	Conc 6-MAM	Conc AMP	Conc MDMA	Conc METH	Conc MTD	Conc EDDP	MTD/EDDP	COC/BE	COC/EME	EME/BE
1/09/2009	Tuesday	283972	187	419	98	6	51	3	2	50	120	0.42	0.45	0.52	0.23
2/09/2009	Wednesday	340504	160	428	88	8	39	2	2	40	100	0.40	0.37	0.55	0.21
3/09/2009	Thursday	288530	144	405	77	7	33	3	2	31	76	0.41	0.36	0.53	0.19
4/09/2009	Friday	283028	196	561	107	9	51	2	2	44	96	0.46	0.35	0.55	0.19
5/09/2009	Saturday	206324	318	933	213	5	64	3	3	51	123	0.41	0.34	0.67	0.23
6/09/2009	Sunday	205384	388	945	217	6	79	8	3	58	132	0.44	0.41	0.56	0.23
7/09/2009	Monday	214568	307	711	144	7	67	5	2	60	135	0.44	0.43	0.47	0.20
8/09/2009	Tuesday	213296	276	677	139	8	67	3	4	60	135	0.44	0.41	0.50	0.21
9/09/2009	Wednesday	213545	270	681	135	9	57	2	3	55	135	0.41	0.40	0.50	0.20
10/09/2009	Thursday	209254	310	682	146	8	53	2	3	57	140	0.41	0.45	0.47	0.21
11/09/2009	Friday	210980	387	709	142	10	60	2	7	55	137	0.40	0.55	0.37	0.20
12/09/2009	Saturday	202220	408	855	194	8	65	29	4	56	138	0.41	0.48	0.48	0.23
13/09/2009	Sunday	205993	402	836	187	8	73	14	3	54	136	0.40	0.48	0.47	0.22
14/09/2009	Monday	332173	200	394	90	7	39	6	3	36	105	0.34	0.51	0.45	0.23
15/09/2009	Tuesday	223661	272	485	111	12	45	4	3	52	104	0.50	0.56	0.41	0.23
16/09/2009	Wednesday	220736	311	583	128	10	54	3	3	55	126	0.44	0.53	0.41	0.22
17/09/2009	Thursday	222023	330	612	140	13	84	3	4	59	139	0.42	0.54	0.42	0.23
18/09/2009	Friday	219684	374	709	140	10	59	3	3	64	139	0.46	0.53	0.37	0.20
19/09/2009	Saturday	215085	467	920	195	13	79	45	5	60	143	0.42	0.51	0.42	0.21
20/09/2009	Sunday	211824	422	883	203	13	89	17	5	51	143	0.36	0.48	0.48	0.23
21/09/2009	Monday	216033	337	675	135	13	80	9	4	53	140	0.38	0.50	0.40	0.20
22/09/2009	Tuesday	211135	392	621	117	12	65	5	3	53	138	0.38	0.63	0.30	0.19
23/09/2009	Wednesday	215163	353	616	144	13	51	3	3	51	139	0.37	0.57	0.41	0.23
24/09/2009	Thursday	228664	319	588	137	11	52	3	3	48	131	0.37	0.54	0.43	0.23
25/09/2009	Friday	211081	367	693	145	12	58	3	3	54	127	0.43	0.53	0.40	0.21
26/09/2009	Saturday	203323	482	941	210	14	68	6	3	58	146	0.40	0.51	0.44	0.22
27/09/2009	Sunday	206114	444	912	209	12	86	21	4	52	151	0.34	0.49	0.47	0.23
28/09/2009	Monday	216953	329	659	144	14	71	10	4	52	144	0.36	0.50	0.44	0.22
29/09/2009	Tuesday	213628	372	657	134	13	62	4	3	50	137	0.36	0.57	0.36	0.20
30/09/2009	Wednesday	213001	228	607	171	3	15	2	2	53	134	0.40	0.38	0.75	0.28
1/10/2009	Thursday	211228	299	631	87	19	46	5	3	63	130	0.48	0.47	0.29	0.14
2/10/2009	Friday	205325	278	683	86	15	47	4	3	67	132	0.51	0.41	0.31	0.13
3/10/2009	Saturday	225275	309	838	107	13	52	7	3	65	140	0.46	0.37	0.35	0.13
4/10/2009	Sunday	211264	461	900	132	20	76	19	3	66	125	0.53	0.51	0.29	0.15
5/10/2009	Monday	406713	137	316	47	7	31	6	2	36	76	0.47	0.43	0.34	0.15
6/10/2009	Tuesday	372714	119	250	41	4	27	3	2	31	68	0.46	0.48	0.34	0.16
7/10/2009	Wednesday	495855	60	170	27	3	12	2	2	14	27	0.52	0.35	0.45	0.16
8/10/2009	Thursday	324445	120	316	48	6	21	2	2	30	61	0.49	0.38	0.40	0.15
9/10/2009	Friday	378825	127	341	51	4	30	6	2	31	55	0.56	0.37	0.40	0.15
10/10/2009	Saturday	332262	166	436	77	2	34	5	2	31	57	0.54	0.38	0.46	0.18
11/10/2009	Sunday	258242	280	705	131	15	52	11	4	52	96	0.54	0.40	0.47	0.19
12/10/2009	Monday	232342	210	524	85	8	57	8	3	58	96	0.60	0.40	0.40	0.16

13/10/2009	Tuesday	225862	224	525	83	9	54	6	4	63	92	0.68	0.43	0.37	0.16
14/10/2009	Wednesday	224233	206	504	101	16	46	4	3	60	96	0.63	0.41	0.49	0.20
15/10/2009	Thursday	220250	219	514	102	11	42	5	3	59	98	0.60	0.43	0.47	0.20
16/10/2009	Friday	253295	208	522	90	8	52	4	3	59	104	0.57	0.40	0.43	0.17
17/10/2009	Saturday	225506	314	748	152	11	66	13	3	55	98	0.56	0.42	0.48	0.20
18/10/2009	Sunday	212618	316	737	158	15	78	18	4	54	105	0.51	0.43	0.50	0.21
19/10/2009	Monday	226636	212	537	111	16	63	10	3	63	108	0.58	0.39	0.52	0.21
20/10/2009	Tuesday	225046	221	478	108	11	50	5	2	65	109	0.60	0.46	0.49	0.23
21/10/2009	Wednesday	247988	213	489	115	9	54	3	2	55	115	0.48	0.44	0.54	0.24
22/10/2009	Thursday	228579	233	539	128	12	51	4	2	50	103	0.49	0.43	0.55	0.24
23/10/2009	Friday	221572	251	634	141	9	59	11	2	56	112	0.50	0.40	0.56	0.22
24/10/2009	Saturday	260261	314	751	210	10	85	78	4	51	119	0.43	0.42	0.67	0.28
25/10/2009	Sunday	224119	326	765	186	14	86	65	5	49	121	0.40	0.43	0.57	0.24
26/10/2009	Monday	217753	251	590	132	13	80	75	3	56	120	0.47	0.43	0.53	0.22
27/10/2009	Tuesday	215395	230	527	120	14	62	15	3	55	125	0.44	0.44	0.52	0.23
28/10/2009	Wednesday	216495	257	541	133	14	56	7	2	57	120	0.48	0.48	0.52	0.25
29/10/2009	Thursday	214070	256	584	145	13	59	4	2	55	123	0.45	0.44	0.57	0.25
30/10/2009	Friday	205604	305	722	179	14	70	7	3	64	128	0.50	0.42	0.59	0.25
31/10/2009	Saturday	198123	381	999	235	16	69	11	3	60	121	0.50	0.38	0.62	0.24
1/11/2009	Sunday	357961	285	451	116	5	37	10	2	31	71	0.44	0.63	0.41	0.26

Table S4. Results of the analyses of the influent wastewater samples collected in December-January 2009-2010. nd = not determined.

Concentrations are given in ng/L.

Date	Day	Flow rate (m ³ /day)	Conc COC	Conc BE	Conc EME	Conc 6-MAM	Conc AMP	Conc MDMA	Conc METH	Conc MTD	Conc EDDP	MTD/EDDP	COC/BE	COC/EME	EME/BE
1/12/2009	Tuesday	139397	241	439	171	6	63	2	2	38	95	0.40	0.55	0.71	0.23
2/12/2009	Wednesday	168080	203	457	183	4	45	1	2	34	83	0.41	0.44	0.90	0.20
3/12/2009	Thursday	183354	155	288	93	4	34	1	2	23	56	0.41	0.54	0.60	0.22
4/12/2009	Friday	168302	1603	519	154	5	34	1	1	26	57	0.46	3.09	0.10	0.20
5/12/2009	Saturday	172999	169	354	110	2	34	3	1	23	44	0.52	0.48	0.65	0.31
6/12/2009	Sunday	162027	225	504	158	5	51	6	2	28	60	0.47	0.45	0.70	0.31
7/12/2009	Monday	174263	153	268	110	4	48	3	2	24	66	0.36	0.57	0.72	0.21
8/12/2009	Tuesday	111354	214	492	138	6	63	2	2	40	82	0.49	0.43	0.64	0.28
9/12/2009	Wednesday	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
10/12/2009	Thursday	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
11/12/2009	Friday	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
12/12/2009	Saturday	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
13/12/2009	Sunday	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
14/12/2009	Monday	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
15/12/2009	Tuesday	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
16/12/2009	Wednesday	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
17/12/2009	Thursday	27188	261	421	97	4	51	2	2	25	47	0.53	0.62	0.37	0.23
18/12/2009	Friday	47814	142	267	70	4	35	3	3	28	58	0.48	0.53	0.49	0.26
19/12/2009	Saturday	120017	339	694	199	8	60	6	3	47	121	0.39	0.49	0.59	0.29
20/12/2009	Sunday	225117	481	912	277	14	93	41	5	60	141	0.43	0.53	0.58	0.30
21/12/2009	Monday	307673	517	723	165	11	65	9	2	58	120	0.48	0.72	0.32	0.23
22/12/2009	Tuesday	447671	215	304	103	8	37	4	3	28	70	0.40	0.71	0.48	0.34
23/12/2009	Wednesday	267787	472	644	151	8	50	4	5	44	94	0.47	0.73	0.32	0.23
24/12/2009	Thursday	453210	190	384	99	4	46	2	1	29	72	0.40	0.49	0.52	0.26
25/12/2009	Friday	424763	249	433	116	2	35	3	1	22	48	0.46	0.58	0.47	0.27
26/12/2009	Saturday	250868	578	964	198	3	69	8	4	45	102	0.44	0.60	0.34	0.21
27/12/2009	Sunday	265181	417	694	185	8	75	13	4	42	104	0.40	0.60	0.44	0.27
28/12/2009	Monday	235825	394	680	164	12	80	12	4	52	121	0.43	0.58	0.42	0.24
29/12/2009	Tuesday	429748	106	239	58	6	27	3	2	21	48	0.44	0.44	0.55	0.24
30/12/2009	Wednesday	433619	192	356	90	5	35	3	2	28	57	0.49	0.54	0.47	0.25
31/12/2009	Thursday	261615	784	891	205	9	60	9	4	55	91	0.60	0.88	0.26	0.23
1/01/2010	Friday	225398	742	1841	524	12	121	95	6	67	113	0.59	0.40	0.71	0.28
2/01/2010	Saturday	228226	948	1115	262	16	82	197	10	63	115	0.55	0.85	0.28	0.23
3/01/2010	Sunday	249712	388	786	232	19	83	43	5	55	111	0.50	0.49	0.60	0.30
4/01/2010	Monday	238157	409	597	160	12	79	22	5	53	115	0.46	0.69	0.39	0.27
5/01/2010	Tuesday	236522	378	593	162	14	65	9	5	60	133	0.45	0.64	0.43	0.27
6/01/2010	Wednesday	233798	442	629	164	15	69	5	4	62	124	0.50	0.70	0.37	0.26
7/01/2010	Thursday	231873	385	667	178	26	67	5	4	69	133	0.52	0.58	0.46	0.27
8/01/2010	Friday	231640	351	794	200	9	65	5	3	75	124	0.60	0.44	0.57	0.25
9/01/2010	Saturday	234082	450	941	230	18	53	8	3	73	128	0.57	0.48	0.51	0.24

10/01/2010	Sunday	233911	529	894	208	18	99	13	4	66	137	0.48	0.59	0.39	0.23
11/01/2010	Monday	241668	614	595	145	18	76	8	4	67	131	0.51	1.03	0.24	0.24
12/01/2010	Tuesday	242511	347	570	143	14	66	4	4	62	130	0.48	0.61	0.41	0.25
13/01/2010	Wednesday	297270	280	543	177	15	55	3	3	60	113	0.53	0.52	0.63	0.33
14/01/2010	Thursday	301278	272	468	120	10	54	2	3	46	102	0.45	0.58	0.44	0.26
15/01/2010	Friday	245434	334	676	159	12	67	5	2	72	125	0.58	0.49	0.48	0.24
16/01/2010	Saturday	301845	374	793	201	10	76	12	2	65	120	0.54	0.47	0.54	0.25
17/01/2010	Sunday	307047	305	527	124	8	52	8	3	34	77	0.44	0.58	0.41	0.24
18/01/2010	Monday	253449	359	578	130	13	72	8	4	53	111	0.48	0.62	0.36	0.22
19/01/2010	Tuesday	275184	321	514	124	11	58	4	4	53	112	0.47	0.62	0.39	0.24
20/01/2010	Wednesday	249015	438	562	137	11	68	2	4	59	124	0.48	0.78	0.31	0.24
21/01/2010	Thursday	257538	331	572	139	12	77	3	4	59	126	0.47	0.58	0.42	0.24
22/01/2010	Friday	241597	314	677	150	10	83	4	2	74	134	0.55	0.46	0.48	0.22
23/01/2010	Saturday	298916	352	720	170	9	71	7	2	51	109	0.47	0.49	0.48	0.24
24/01/2010	Sunday	255971	431	765	209	10	97	15	4	53	119	0.45	0.56	0.48	0.27
25/01/2010	Monday	239660	352	593	155	12	91	9	3	73	129	0.57	0.59	0.44	0.26
26/01/2010	Tuesday	238776	340	550	142	15	72	7	4	68	132	0.52	0.62	0.42	0.26
27/01/2010	Wednesday	304440	247	443	105	18	58	2	4	54	121	0.45	0.56	0.43	0.24

Figure S1. Diurnal variation in the flow rate of the Brussels-North wastewater treatment plant.

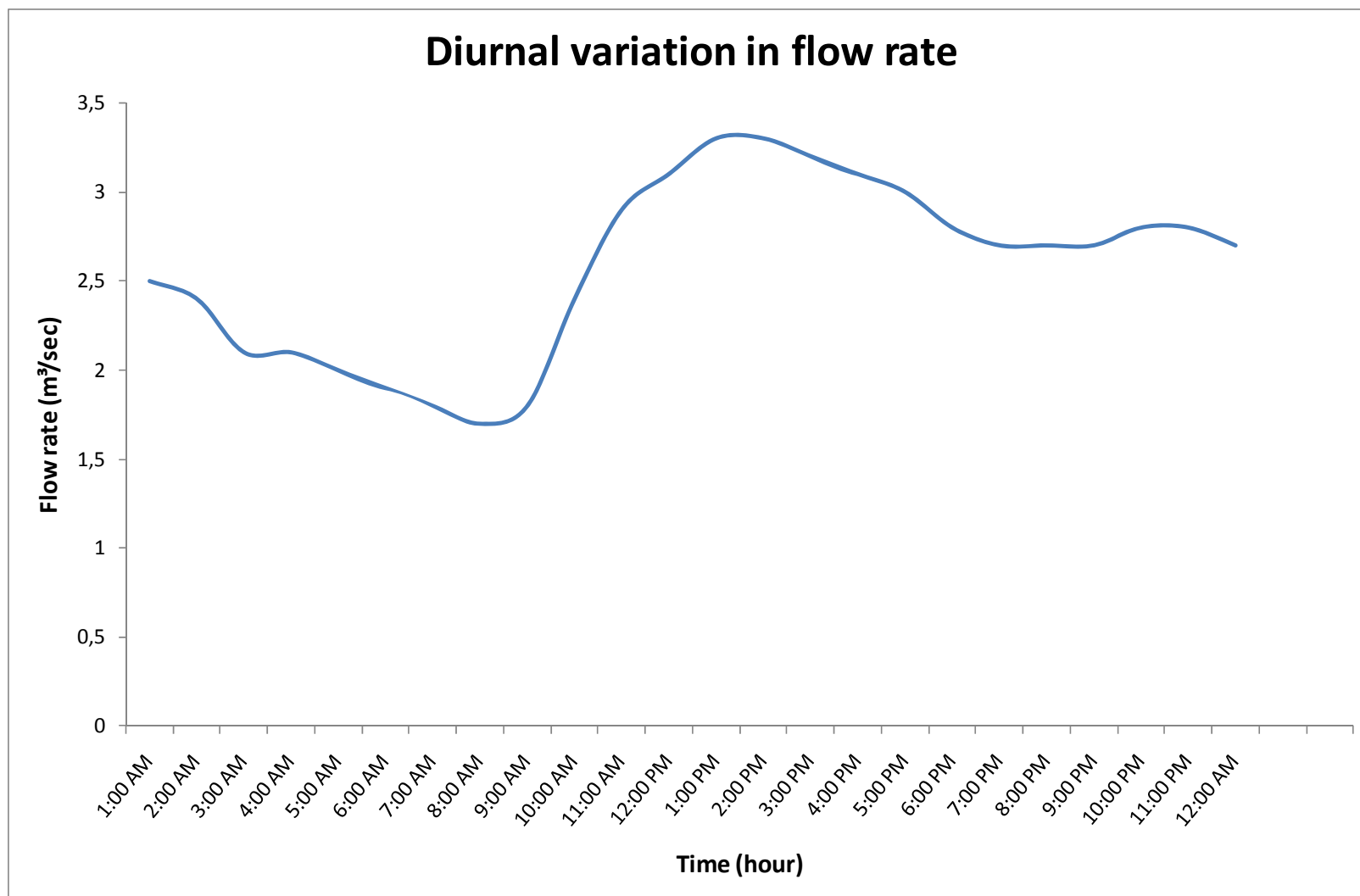


Figure S2. Mean variations between seasons and months in mass loads (in g/day) of illicit drugs and metabolites in influent wastewater from the wastewater treatment plant of Brussels-North. COC: cocaine; BE: benzoylecgonine; EME: ecgonine methyl ester; AMP: amphetamine; MDMA: methylenedioxymethamphetamine; METH: methamphetamine; 6-MAM: 6-monoacetylmorphine; EDDP: ethylidenedimethyldiphenylpyrrolidine; MTD: methadone.

