

ANNEXE 1 : Qualité chimique des masses d'eau de surface

No	Name of substance	CAS number	Inventory of emissions towards surface waters Net emission in the BCR (2010, WEISS, kg/year)	Point sources, diffuse sources, both	Main sources	Monitoring - Water column Monitoring - water column (2009, 2010, 2011, 2012)	Trend - water column (2009, 2010, 2011, 2012)	Monitoring - Sediments (in the surface waters) Monitoring - sediments (2013) (main value of the 15 monitoring sites)	Trend - sediment (1993/1995, 2013, on 12 monitoring sites)	Monitoring - Biota Monitoring - biota (2013)	Assessment of chemical status										2012 (2013 if biota data is used for assessment)		
											2001	2002	2003	2004	2005	2006	2007	2008	2009	2010		2011	
1	Alachlor	15972-60-8	Not relevant			not measurable (always < than LOQ)	no assessment possible	no data			no data	no	no	no	no	no	no	no	no	no	no	no	no
2	Anthracene	120-12-7	1,87	both	traffic, population	measurable, always < MKN	1	0,43 mg/kg DS	no trend (6 an. 6 I)		no	no	no	no	no	no	no	no	no	no	no	no	no
3	Atrazine	1912-24-9	Not relevant			measurable, always < MKN	è	no data			Yes (ZEN IN)	no	no	no	no	no	no	no	no	no	no	no	no
4	Benzene	71-43-2	167,65	diffuse sources	atmospheric deposition	not measurable (always < than LOQ)	è	not detected (always < than LOQ)	1		no	no	no	no	no	no	no	no	no	no	no	no	no
5*	Brominated diphenylethers	32534-81-9	0,31	diffuse sources	contaminated sediments (in surface water)	not measurable, LOQ >> EGS	no assessment possible	91 mg/kg DS (som)	no data		no data	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)
6*	Cadmium and its compounds	7440-43-9	36,39	both	point sources (companies), population, atmospheric deposition	0,22 µg/l	no assessment possible	2,51 mg/kg DS	1		no data	no data	no data	no data	no data	no data	no data	no data	no assessment possible (LOQ too high)	no	no	no	no
6 bis	Carbon-tetrachloride (CCl4)	56-23-5	12,69	point sources	population	not measurable (always < than LOQ)	no assessment possible	no data			no	no data	no data	no	no	no data	no	no data	no	no	no	no	no
7	C10-13 Chloroalkanes	85535-84-8	no data (on emission factors available)			not measurable, LOQ >> EGS	no assessment possible	no data	no data		no data	no data	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no data	no data	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)
8	Chlorfenvinphos	470-90-6	Not relevant			not measurable (always < than LOQ)	no assessment possible	not detected (always < than LOQ)			no data	no	no	no	no data	no data	no	no	no	no	no	no	no
9	Chlorpyrifos (Chlorpyrifos-ethyl)	2921-88-2	0,04	diffuse sources	agriculture, contaminated sediments (in surface water)	not measurable (always < than LOQ)	no assessment possible	not detected (always < than LOQ)			no data	no	no	no	no data	no data	no	no	no	no	no	no	no
9 bis	Cyclodiene pesticides:							not detected (always < than LOQ)			no	no	no	no	no	no	no	no	no	no	no	no	no
	Aldrin	309-00-2	Not relevant			not measurable (always < than LOQ)	no assessment possible	not detected (always < than LOQ)			no	no	no	no	no	no	no	no	no	no	no	no	no
	Dieldrin	60-57-1	Not relevant			not measurable (always < than LOQ)	no assessment possible	not detected (always < than LOQ)			no	no	no	no	no	no	no	no	no	no	no	no	no
	Endrin	72-20-8	Not relevant			not measurable (always < than LOQ)	no assessment possible	not detected (always < than LOQ)			no	no	no	no	no	no	no	no	no	no	no	no	no
	Isodrin	485-73-6	Not relevant			not measurable (always < than LOQ)	no assessment possible	not detected (always < than LOQ)			no	no	no	no	no	no	no	no	no	no	no	no	no
9 ter	DDT total	sans objet	Not relevant			not measurable (always < than LOQ)	no assessment possible	not detected (always < than LOQ)			no	no	no data	no	no	no	no	no	no	no data	no data	no	no
	para-para-DDT	50-29-3	Not relevant			not measurable (always < than LOQ)	no assessment possible	not detected (always < than LOQ)			no data	no data	no data	no data	no	no data	no data	no	no	no	no	no	no
10	1,2-Dichloroethane	107-06-2	0,67	diffuse sources	contaminated sediments (in surface water)	not measurable (always < than LOQ)	no assessment possible	not detected (always < than LOQ)			no	no	no data	no	no	no	no	no	no	no	no	no	no
11	Dichloromethane	75-09-2	187,61	point sources	population	not measurable (always < than LOQ)	no assessment possible	not detected (always < than LOQ)			no	no	no	no	no	no	no	no	no	no	no	no	no
12	Di(2-ethylhexyl)-phthalate (DEHP)	117-81-7	451,99	point sources	population	0,95 µg/l	not clear	4,55 mg/kg DS	no data		no data	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	Yes (ZEN OUT)	no data	no data	Yes (KAN IN, ZEN IN, ZEN OUT)	no	no	Yes (ZEN OUT)	no	no	no
13	Diuron	330-54-1	Not relevant			0,054 µg/l	1 (mainly Senne)	not detected (always < than LOQ)			no data	no data	no data	no data	no data	no data	no data	no	no	no	no	no	no
14	Endosulfan	115-29-7	0,01	diffuse sources	contaminated sediments (in surface water)	not measurable, LOQ >> EGS	no assessment possible	not detected (always < than LOQ)	no data		no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)
15	Fluoranthene	206-44-0	17,37	both	population, traffic (cars), railway (mineral oil), atmospheric deposition	0,025 µg/l	1	2,58 mg/kg DS	no trend (6 an. 6 I)		no	Yes (ZEN IN, ZEN OUT)	Yes (ZEN IN)	Yes (KAN OUT, ZEN OUT)	no	no	Yes (ZEN OUT)	no	no	no	no	no	no

31	Trichlorobenzene	12002-48-1	97,62	point sources	contaminated sediments (in surface water)	always < EQS	not clear	not detected (always < than LOQ)			no	no	no	no	no	no	no	no	no	no	no	
32	Trichloromethane	67-66-3	15,43	point sources	contaminated sediments (in surface water)	always < EQS	not clear	not detected (always < than LOQ)			no	no	no data	no	no	no	no	no	no	no	no	no
33	Trifluralin	1582-09-8	Not relevant			partly < EQS, partly no assessment possible because LOQ >> EQS	not clear	not detected (always < than LOQ)			no	no	no	no	no	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)	no assessment possible (LOQ too high)

Chemical status Senne

Not good	Not good	Not good	Not good	Not good	Not good	Good	Not good	Not good	Not good	Not good	Not good	Not good
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Parameters causing failure Senne

Atrazine, Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Fluoranthene Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Fluoranthene Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	DEHP, Fluoranthene Benzo(b+k)anthene*, Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	DEHP, Fluoranthene, Benzo(a)pyrene*, Benzo(b+k)anthene*, Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Benzo(a)pyrene*, Benzo(b+k)anthene*, Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Benzo(a)pyrene*, Benzo(b+k)anthene*, Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	DEHP, Benzo(b+k)anthene*	Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Mercury (in biota)
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Chemical status Canal

Not good	Not good	Good	Not good	Not good	Good	Not good	Not good	Not good	Not good	Not good	Not good
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Parameters causing failure Canal

*=ubiquitous substances

Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Fluoranthene Benzo(a)pyrene*, Benzo(b+k)anthene*, Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	DEHP, Benzo(b+k)anthene*, Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Mercury (in biota)
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Chemical status Woluwe

Good	Good	Good	Not good	Good	Good	Not good	Not good	Not good	Good	Good	Not good
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Parameters causing failure Woluwe

Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Benzo(g,h,i) perylene & Indeno(1,2,3-cd)pyrene*	Mercury (in biota)
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