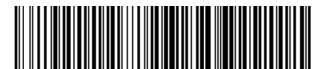


Eurofins Environment Sweden AB
 attn. Patrick van Hees
 Box 737
 531 17 Lidköping
 SCHWEDEN

Person in charge Mr. B. Homburg
ASM Mr. B. Homburg - 102

Report date 12.07.2011
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Analytical report AR-11-GF-014462-02



This report will replace report number: AR-11-GF-014462-01

Sample Code 710-2011-10263001

Reference	Soil
Sample sender	Patrick van Hees
Reception date time	22.06.2011
Purchase order date	21.06.2011
Client sample code	A7115
End analysis	12.07.2011

Test results

CYP07 dry matter
 Method DIN 38414-S2
 dry residue

6.2 %

CY106 PCDD/F (17) + totals ~ environment
 Method AIR DF 100, HRMS

2,3,7,8-TetraCDD	1.40	ng/kg dm
Total TetraCDD	103	ng/kg dm
1,2,3,7,8-PentaCDD	8.95	ng/kg dm
Total PentaCDD	168	ng/kg dm
1,2,3,4,7,8-HexaCDD	8.03	ng/kg dm
1,2,3,6,7,8-HexaCDD	52.6	ng/kg dm
1,2,3,7,8,9-HexaCDD	33.7	ng/kg dm
Total HexaCDD	371	ng/kg dm
1,2,3,4,6,7,8-HeptaCDD	399	ng/kg dm
Total HeptaCDD	721	ng/kg dm
OctaCDD	1290	ng/kg dm
Total Tetra- to OctaCDD	2650	ng/kg dm

This report will replace report number: AR-11-GF-014462-01

2,3,7,8-TetraCDF	99.0	ng/kg dm
Total TetraCDF	441	ng/kg dm
1,2,3,7,8-PentaCDF	30.3	ng/kg dm
2,3,4,7,8-PentaCDF	36.6	ng/kg dm
Total PentaCDF	345	ng/kg dm
1,2,3,4,7,8-HexaCDF	40.1	ng/kg dm
1,2,3,6,7,8-HexaCDF	19.1	ng/kg dm
1,2,3,7,8,9-HexaCDF	< 0.415	ng/kg dm
2,3,4,6,7,8-HexaCDF	17.5	ng/kg dm
Total HexaCDF	252	ng/kg dm
1,2,3,4,6,7,8-HeptaCDF	249	ng/kg dm
1,2,3,4,7,8,9-HeptaCDF	10.6	ng/kg dm
Total HeptaCDF	444	ng/kg dm
OctaCDF	333	ng/kg dm
Total Tetra- to OctaCDF	1810	ng/kg dm
Total Tetra- to OctaCDD/F	4460	ng/kg dm
WHO(1998)-PCDD/F TEQ excl. LOQ	63.9	ng/kg dm
WHO(1998)-PCDD/F TEQ incl. LOQ	64.0	ng/kg dm
I-TEQ (NATO/CCMS) excl. LOQ	60.9	ng/kg dm
I-TEQ (NATO/CCMS) incl. LOQ	61.0	ng/kg dm

CY043 PCB ~ dioxin-like / 12 WHO ~ environment

Method	AIR DF 100, HRMS		
PCB 77		310	ng/kg dm
PCB 81		4.24	ng/kg dm
PCB 105		1050	ng/kg dm
PCB 114		47.4	ng/kg dm
PCB 118		2940	ng/kg dm
PCB 123		52.0	ng/kg dm
PCB 126		35.4	ng/kg dm
PCB 156		688	ng/kg dm
PCB 157		105	ng/kg dm
PCB 167		328	ng/kg dm
PCB 169		< 4.48	ng/kg dm
PCB 189		118	ng/kg dm
WHO(1998)-PCB TEQ excl. LOQ		4.41	ng/kg dm
WHO(1998)-PCB TEQ incl. LOQ		4.45	ng/kg dm

This report will replace report number: AR-11-GF-014462-01

CYR07 SCCP (C10-C13] ~ soil / sludge / sediment

Method AIR OC 147, LRMS (NCI)

C10H17Cl5-Chloroparaffine	< 1.5	µg/kg dm
C10H16Cl6-Chloroparaffine	< 3.0	µg/kg dm
C10H15Cl7-Chloroparaffine	< 3.5	µg/kg dm
C10H14Cl8-Chloroparaffine	< 2.5	µg/kg dm
Total C10-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C10-Chloroparaffine incl. LOQ	10.5	µg/kg dm
C11H19Cl5-Chloroparaffine	< 1.5	µg/kg dm
C11H18Cl6-Chloroparaffine	< 2.5	µg/kg dm
C11H17Cl7-Chloroparaffine	< 3.5	µg/kg dm
C11H16Cl8-Chloroparaffine	< 3.5	µg/kg dm
C11H15Cl9-Chloroparaffine	< 3.0	µg/kg dm
C11H14Cl10-Chloroparaffine	< 2.5	µg/kg dm
Total C11-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C11-Chloroparaffine incl. LOQ	16.5	µg/kg dm
C12H20Cl6-Chloroparaffine	< 2.0	µg/kg dm
C12H19Cl7-Chloroparaffine	< 3.0	µg/kg dm
C12H18Cl8-Chloroparaffine	< 4.0	µg/kg dm
C12H17Cl9-Chloroparaffine	< 3.5	µg/kg dm
C12H16Cl10-Chloroparaffine	< 3.0	µg/kg dm
Total C12-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C12-Chloroparaffine incl. LOQ	15.5	µg/kg dm
C13H21Cl7-Chloroparaffine	< 3.0	µg/kg dm
C13H20Cl8-Chloroparaffine	< 3.5	µg/kg dm
C13H19Cl9-Chloroparaffine	< 3.5	µg/kg dm
C13H18Cl10-Chloroparaffine	< 3.0	µg/kg dm
Total C13-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C13-Chloroparaffine incl. LOQ	13.0	µg/kg dm
Total C10- to C13-Chloroparaff. excl.LOQ	ND	µg/kg dm
Total C10- to C13-Chloroparaff. incl.LOQ	55.5	µg/kg dm

This report will replace report number: AR-11-GF-014462-01

CYR57	MCCP (chloroparaffins) ~ C14-C17 ~ soil/sludge/sed		
Method	AIR OC 147, LRMS (NCI)		
	C14H25Cl5-Chlorparaffins	< 6.0	µg/kg dm
	C14H24Cl6-Chlorparaffins	< 6.5	µg/kg dm
	C14H23Cl7-Chlorparaffins	< 6.0	µg/kg dm
	C14H22Cl8-Chlorparaffins	< 5.0	µg/kg dm
	C14H21Cl9-Chlorparaffins	< 5.0	µg/kg dm
	Total C14 excl. LOQ	ND	µg/kg dm
	Total C14 incl. LOQ	28.5	µg/kg dm
	C15H26Cl6-Chlorparaffins	< 4.0	µg/kg dm
	C15H25Cl7-Chlorparaffins	< 5.0	µg/kg dm
	C15H24Cl8-Chlorparaffins	< 5.0	µg/kg dm
	C15H23Cl9-Chlorparaffins	< 5.0	µg/kg dm
	Total C15 excl. LOQ	ND	µg/kg dm
	Total C15 incl. LOQ	19.0	µg/kg dm
	C16H28Cl6-Chlorparaffins	< 5.0	µg/kg dm
	C16H27Cl7-Chlorparaffins	< 6.0	µg/kg dm
	C16H26Cl8-Chlorparaffins	< 6.0	µg/kg dm
	C16H25Cl9-Chlorparaffins	< 5.0	µg/kg dm
	Total C16 excl. LOQ	ND	µg/kg dm
	Total C16 incl. LOQ	22.0	µg/kg dm
	C17H30Cl6-Chlorparaffins	< 5.0	µg/kg dm
	C17H29Cl7-Chlorparaffins	< 6.5	µg/kg dm
	C17H28Cl8-Chlorparaffins	< 6.0	µg/kg dm
	C17H27Cl9-Chlorparaffins	< 6.0	µg/kg dm
	Total C17 excl. LOQ	ND	µg/kg dm
	Total C17 incl. LOQ	23.5	µg/kg dm
	Total C14 -C17 excl. LOQ	ND	µg/kg dm
	Total C14 - C17 incl. LOQ	93.0	µg/kg dm

This report will replace report number: AR-11-GF-014462-01

CYR33 PAH ~ 16 EPA ~ materials/products/environment

Method AIR OC 174, LRMS

Naphthalene	229	µg/kg dm
Acenaphthylene	54.0	µg/kg dm
Acenaphthene	< 9.53	µg/kg dm
Fluorene	21.0	µg/kg dm
Phenanthrene	257	µg/kg dm
Anthracene	41.5	µg/kg dm
Fluoranthene	415	µg/kg dm
Pyrene	321	µg/kg dm
Benz(a)anthracene	126	µg/kg dm
Chrysene	192	µg/kg dm
Benzo(b/j)fluoranthene	650	µg/kg dm
Benzo(k)fluoranthene	160	µg/kg dm
Benzo(a)pyrene	155	µg/kg dm
Dibenz(a,h)anthracene	68.9	µg/kg dm
Indeno(1,2,3-cd)pyrene	319	µg/kg dm
Benzo(ghi)perylene	275	µg/kg dm
Total 16 EPA-PAH excl. LOQ	3280	µg/kg dm
Total 16 EPA-PAH incl. LOQ	3290	µg/kg dm

This report will replace report number: AR-11-GF-014462-01

GF013	PFC (11) ~ solids		
Method	AIR OC 150, LC-MS/MS		
	Perfluorooctane sulfonate (PFOS)	7.7	µg/kg dm
	Perfluorooctanoic acid (PFOA)	< 2.3	µg/kg dm
	total PFOS / PFOA excl. LOQ	7.7	µg/kg dm
	total PFOS / PFOA incl. LOQ	10.0	µg/kg dm
	Perfluorbutansulfonate (PFBS)	< 3.5	µg/kg dm
	Perfluorohexane sulfonate (PFHxS)	< 3.5	µg/kg dm
	Perfluorohexanoic acid (PFHxA)	< 2.3	µg/kg dm
	Perfluorheptanoic acid (PFHpA)	< 2.3	µg/kg dm
	Perfluorooctane-sulfonamide (PFOSA)	8.2	µg/kg dm
	Perfluorononanoic acid (PFNA)	< 2.3	µg/kg dm
	Perfluorodecane sulphonate (PFDS)	< 3.5	µg/kg dm
	Perfluordecanoic acid (PFDA)	< 2.3	µg/kg dm
	Perfluorododecane acid (PFDoA)	< 2.3	µg/kg dm
	total PFC compounds excl. LOQ	15.9	µg/kg dm
	total PFC compounds incl. LOQ	40.4	µg/kg dm

TEQ excl. LOQ - TEQ-value calculated by including the quantified congeners only

TEQ incl. LOQ - TEQ-value calculated by including the non-quantified congeners by taking the full value of their LOQ

< - Concentration below the indicated limit of quantification (LOQ)

ND - not determined since none of the corresponding congeners was above the LOQ

This report will replace report number: AR-11-GF-014462-01

Sample Code 710-2011-10263002

Reference	Soil
Sample sender	Patrick van Hees
Reception date time	22.06.2011
Purchase order date	21.06.2011
Client sample code	A7116
End analysis	12.07.2011

Test results

CYP07 dry matter
 Method DIN 38414-S2
 dry residue

8.3 %

CY106 PCDD/F (17) + totals ~ environment
 Method AIR DF 100, HRMS

2,3,7,8-TetraCDD	0.718	ng/kg dm
Total TetraCDD	78.8	ng/kg dm
1,2,3,7,8-PentaCDD	4.72	ng/kg dm
Total PentaCDD	123	ng/kg dm
1,2,3,4,7,8-HexaCDD	4.00	ng/kg dm
1,2,3,6,7,8-HexaCDD	40.9	ng/kg dm
1,2,3,7,8,9-HexaCDD	22.2	ng/kg dm
Total HexaCDD	265	ng/kg dm
1,2,3,4,6,7,8-HeptaCDD	255	ng/kg dm
Total HeptaCDD	457	ng/kg dm
OctaCDD	909	ng/kg dm
Total Tetra- to OctaCDD	1830	ng/kg dm
2,3,7,8-TetraCDF	77.2	ng/kg dm
Total TetraCDF	316	ng/kg dm
1,2,3,7,8-PentaCDF	22.0	ng/kg dm
2,3,4,7,8-PentaCDF	25.8	ng/kg dm
Total PentaCDF	213	ng/kg dm
1,2,3,4,7,8-HexaCDF	27.2	ng/kg dm
1,2,3,6,7,8-HexaCDF	11.1	ng/kg dm
1,2,3,7,8,9-HexaCDF	< 0.412	ng/kg dm
2,3,4,6,7,8-HexaCDF	9.61	ng/kg dm
Total HexaCDF	156	ng/kg dm

This report will replace report number: AR-11-GF-014462-01

1,2,3,4,6,7,8-HeptaCDF	141	ng/kg dm
1,2,3,4,7,8,9-HeptaCDF	6.89	ng/kg dm
Total HeptaCDF	295	ng/kg dm
OctaCDF	265	ng/kg dm
Total Tetra- to OctaCDF	1240	ng/kg dm
Total Tetra- to OctaCDD/F	3080	ng/kg dm
WHO(1998)-PCDD/F TEQ excl. LOQ	42.8	ng/kg dm
WHO(1998)-PCDD/F TEQ incl. LOQ	42.8	ng/kg dm
I-TEQ (NATO/CCMS) excl. LOQ	41.5	ng/kg dm
I-TEQ (NATO/CCMS) incl. LOQ	41.5	ng/kg dm
CY043 PCB ~ dioxin-like / 12 WHO ~ environment		
Method AIR DF 100, HRMS		
PCB 77	504	ng/kg dm
PCB 81	12.1	ng/kg dm
PCB 105	1770	ng/kg dm
PCB 114	95.6	ng/kg dm
PCB 118	4670	ng/kg dm
PCB 123	50.0	ng/kg dm
PCB 126	28.2	ng/kg dm
PCB 156	1040	ng/kg dm
PCB 157	157	ng/kg dm
PCB 167	438	ng/kg dm
PCB 169	4.81	ng/kg dm
PCB 189	157	ng/kg dm
WHO(1998)-PCB TEQ excl. LOQ	4.24	ng/kg dm
WHO(1998)-PCB TEQ incl. LOQ	4.24	ng/kg dm
CYR07 SCCP (C10-C13] ~ soil / sludge / sediment		
Method AIR OC 147, LRMS (NCI)		
C10H17Cl5-Chloroparaffine	< 1.5	µg/kg dm
C10H16Cl6-Chloroparaffine	< 3.0	µg/kg dm
C10H15Cl7-Chloroparaffine	< 3.5	µg/kg dm
C10H14Cl8-Chloroparaffine	< 2.5	µg/kg dm
Total C10-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C10-Chloroparaffine incl. LOQ	10.5	µg/kg dm

This report will replace report number: AR-11-GF-014462-01

C11H19Cl5-Chloroparaffine	< 1.5	µg/kg dm
C11H18Cl6-Chloroparaffine	< 2.5	µg/kg dm
C11H17Cl7-Chloroparaffine	< 3.5	µg/kg dm
C11H16Cl8-Chloroparaffine	< 3.5	µg/kg dm
C11H15Cl9-Chloroparaffine	< 3.0	µg/kg dm
C11H14Cl10-Chloroparaffine	< 2.5	µg/kg dm
Total C11-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C11-Chloroparaffine incl. LOQ	16.5	µg/kg dm
C12H20Cl6-Chloroparaffine	< 2.0	µg/kg dm
C12H19Cl7-Chloroparaffine	< 3.0	µg/kg dm
C12H18Cl8-Chloroparaffine	< 4.0	µg/kg dm
C12H17Cl9-Chloroparaffine	< 3.5	µg/kg dm
C12H16Cl10-Chloroparaffine	< 3.0	µg/kg dm
Total C12-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C12-Chloroparaffine incl. LOQ	15.5	µg/kg dm
C13H21Cl7-Chloroparaffine	< 3.0	µg/kg dm
C13H20Cl8-Chloroparaffine	< 3.5	µg/kg dm
C13H19Cl9-Chloroparaffine	< 3.5	µg/kg dm
C13H18Cl10-Chloroparaffine	< 3.0	µg/kg dm
Total C13-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C13-Chloroparaffine incl. LOQ	13.0	µg/kg dm
Total C10- to C13-Chloroparaff. excl. LOQ	ND	µg/kg dm
Total C10- to C13-Chloroparaff. incl. LOQ	55.5	µg/kg dm

CYR57 MCCP (chloroparaffins) ~ C14-C17 ~ soil/sludge/sed

Method AIR OC 147, LRMS (NCI)

C14H25Cl5-Chlorparaffins	< 6.0	µg/kg dm
C14H24Cl6-Chlorparaffins	< 6.5	µg/kg dm
C14H23Cl7-Chlorparaffins	< 6.0	µg/kg dm
C14H22Cl8-Chlorparaffins	< 5.0	µg/kg dm
C14H21Cl9-Chlorparaffins	< 5.0	µg/kg dm
Total C14 excl. LOQ	ND	µg/kg dm
Total C14 incl. LOQ	28.5	µg/kg dm
C15H26Cl6-Chlorparaffins	< 4.0	µg/kg dm
C15H25Cl7-Chlorparaffins	< 5.0	µg/kg dm
C15H24Cl8-Chlorparaffins	< 5.0	µg/kg dm
C15H23Cl9-Chlorparaffins	< 5.0	µg/kg dm
Total C15 excl. LOQ	ND	µg/kg dm
Total C15 incl. LOQ	19.0	µg/kg dm

This report will replace report number: AR-11-GF-014462-01

C16H28Cl6-Chlorparaffins	< 5.0	µg/kg dm
C16H27Cl7-Chlorparaffins	< 6.0	µg/kg dm
C16H26Cl8-Chlorparaffins	< 6.0	µg/kg dm
C16H25Cl9-Chlorparaffins	< 5.0	µg/kg dm
Total C16 excl. LOQ	ND	µg/kg dm
Total C16 incl. LOQ	22.0	µg/kg dm
C17H30Cl6-Chlorparaffins	< 5.0	µg/kg dm
C17H29Cl7-Chlorparaffins	< 6.5	µg/kg dm
C17H28Cl8-Chlorparaffins	< 6.0	µg/kg dm
C17H27Cl9-Chlorparaffins	< 6.0	µg/kg dm
Total C17 excl. LOQ	ND	µg/kg dm
Total C17 incl. LOQ	23.5	µg/kg dm
Total C14 -C17 excl. LOQ	ND	µg/kg dm
Total C14 - C17 incl. LOQ	93.0	µg/kg dm

CYR33 PAH ~ 16 EPA ~ materials/products/environment

Method AIR OC 174, LRMS

Naphthalene	412	µg/kg dm
Acenaphthylene	75.7	µg/kg dm
Acenaphthene	< 16.3	µg/kg dm
Fluorene	49.1	µg/kg dm
Phenanthrene	472	µg/kg dm
Anthracene	84.5	µg/kg dm
Fluoranthene	646	µg/kg dm
Pyrene	490	µg/kg dm
Benz(a)anthracene	201	µg/kg dm
Chrysene	258	µg/kg dm
Benzo(b/j)fluoranthene	557	µg/kg dm
Benzo(k)fluoranthene	145	µg/kg dm
Benzo(a)pyrene	222	µg/kg dm
Dibenz(a,h)anthracene	69.9	µg/kg dm
Indeno(1,2,3-cd)pyrene	260	µg/kg dm
Benzo(ghi)perylene	243	µg/kg dm
Total 16 EPA-PAH excl. LOQ	4190	µg/kg dm
Total 16 EPA-PAH incl. LOQ	4200	µg/kg dm

This report will replace report number: AR-11-GF-014462-01

GF013 PFC (11) ~ solids

Method AIR OC 150, LC-MS/MS

Perfluorooctane sulfonate (PFOS)	3.3	µg/kg dm
Perfluorooctanoic acid (PFOA)	< 2.3	µg/kg dm
total PFOS / PFOA excl. LOQ	3.3	µg/kg dm
total PFOS / PFOA incl. LOQ	5.6	µg/kg dm
Perfluorbutansulfonate (PFBS)	< 3.4	µg/kg dm
Perfluorohexane sulfonate (PFHxS)	< 3.4	µg/kg dm
Perfluorohexanoic acid (PFHxA)	< 2.3	µg/kg dm
Perfluorheptanoic acid (PFHpA)	< 2.3	µg/kg dm
Perfluorooctane-sulfonamide (PFOSA)	3.7	µg/kg dm
Perfluorononanoic acid (PFNA)	< 2.3	µg/kg dm
Perfluorodecane sulphonate (PFDS)	< 3.4	µg/kg dm
Perfluordecanoic acid (PFDA)	< 2.3	µg/kg dm
Perfluorododecane acid (PFDoA)	< 2.3	µg/kg dm
total PFC compounds excl. LOQ	7.0	µg/kg dm
total PFC compounds incl. LOQ	30.9	µg/kg dm

 TEQ excl. LOQ - TEQ-value calculated by including the quantified congeners only

TEQ incl. LOQ - TEQ-value calculated by including the non-quantified congeners by taking the full value of their LOQ

< - Concentration below the indicated limit of quantification (LOQ)

ND - not determined since none of the corresponding congeners was above the LOQ

This report will replace report number: AR-11-GF-014462-01

Sample Code 710-2011-10263003

Reference	Soil
Sample sender	Patrick van Hees
Reception date time	22.06.2011
Purchase order date	21.06.2011
Client sample code	A7117
End analysis	12.07.2011

Test results

CYP07 dry matter
 Method DIN 38414-S2
 dry residue

5.5 %

CY106 PCDD/F (17) + totals ~ environment
 Method AIR DF 100, HRMS

2,3,7,8-TetraCDD	2.16	ng/kg dm
Total TetraCDD	118	ng/kg dm
1,2,3,7,8-PentaCDD	12.9	ng/kg dm
Total PentaCDD	207	ng/kg dm
1,2,3,4,7,8-HexaCDD	11.1	ng/kg dm
1,2,3,6,7,8-HexaCDD	66.1	ng/kg dm
1,2,3,7,8,9-HexaCDD	43.7	ng/kg dm
Total HexaCDD	463	ng/kg dm
1,2,3,4,6,7,8-HeptaCDD	523	ng/kg dm
Total HeptaCDD	940	ng/kg dm
OctaCDD	1840	ng/kg dm
Total Tetra- to OctaCDD	3570	ng/kg dm
2,3,7,8-TetraCDF	70.4	ng/kg dm
Total TetraCDF	371	ng/kg dm
1,2,3,7,8-PentaCDF	24.8	ng/kg dm
2,3,4,7,8-PentaCDF	32.2	ng/kg dm
Total PentaCDF	342	ng/kg dm
1,2,3,4,7,8-HexaCDF	36.7	ng/kg dm
1,2,3,6,7,8-HexaCDF	21.2	ng/kg dm
1,2,3,7,8,9-HexaCDF	< 1.28	ng/kg dm
2,3,4,6,7,8-HexaCDF	20.9	ng/kg dm
Total HexaCDF	380	ng/kg dm

This report will replace report number: AR-11-GF-014462-01

1,2,3,4,6,7,8-HeptaCDF	578	ng/kg dm
1,2,3,4,7,8,9-HeptaCDF	17.3	ng/kg dm
Total HeptaCDF	1110	ng/kg dm
OctaCDF	964	ng/kg dm
Total Tetra- to OctaCDF	3170	ng/kg dm
Total Tetra- to OctaCDD/F	6730	ng/kg dm
WHO(1998)-PCDD/F TEQ excl. LOQ	70.9	ng/kg dm
WHO(1998)-PCDD/F TEQ incl. LOQ	71.1	ng/kg dm
I-TEQ (NATO/CCMS) excl. LOQ	67.0	ng/kg dm
I-TEQ (NATO/CCMS) incl. LOQ	67.1	ng/kg dm
CY043 PCB ~ dioxin-like / 12 WHO ~ environment		
Method AIR DF 100, HRMS		
PCB 77	310	ng/kg dm
PCB 81	4.39	ng/kg dm
PCB 105	1160	ng/kg dm
PCB 114	26.7	ng/kg dm
PCB 118	3230	ng/kg dm
PCB 123	47.7	ng/kg dm
PCB 126	43.8	ng/kg dm
PCB 156	693	ng/kg dm
PCB 157	117	ng/kg dm
PCB 167	323	ng/kg dm
PCB 169	5.98	ng/kg dm
PCB 189	104	ng/kg dm
WHO(1998)-PCB TEQ excl. LOQ	5.35	ng/kg dm
WHO(1998)-PCB TEQ incl. LOQ	5.35	ng/kg dm
CYR07 SCCP (C10-C13] ~ soil / sludge / sediment		
Method AIR OC 147, LRMS (NCI)		
C10H17Cl5-Chloroparaffine	< 1.5	µg/kg dm
C10H16Cl6-Chloroparaffine	< 3.0	µg/kg dm
C10H15Cl7-Chloroparaffine	< 3.5	µg/kg dm
C10H14Cl8-Chloroparaffine	< 2.5	µg/kg dm
Total C10-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C10-Chloroparaffine incl. LOQ	10.5	µg/kg dm

This report will replace report number: AR-11-GF-014462-01

C11H19Cl5-Chloroparaffine	< 1.5	µg/kg dm
C11H18Cl6-Chloroparaffine	< 2.5	µg/kg dm
C11H17Cl7-Chloroparaffine	< 3.5	µg/kg dm
C11H16Cl8-Chloroparaffine	< 3.5	µg/kg dm
C11H15Cl9-Chloroparaffine	< 3.0	µg/kg dm
C11H14Cl10-Chloroparaffine	< 2.5	µg/kg dm
Total C11-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C11-Chloroparaffine incl. LOQ	16.5	µg/kg dm
C12H20Cl6-Chloroparaffine	< 2.0	µg/kg dm
C12H19Cl7-Chloroparaffine	< 3.0	µg/kg dm
C12H18Cl8-Chloroparaffine	< 4.0	µg/kg dm
C12H17Cl9-Chloroparaffine	< 3.5	µg/kg dm
C12H16Cl10-Chloroparaffine	< 3.0	µg/kg dm
Total C12-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C12-Chloroparaffine incl. LOQ	15.5	µg/kg dm
C13H21Cl7-Chloroparaffine	< 3.0	µg/kg dm
C13H20Cl8-Chloroparaffine	< 3.5	µg/kg dm
C13H19Cl9-Chloroparaffine	< 3.5	µg/kg dm
C13H18Cl10-Chloroparaffine	< 3.0	µg/kg dm
Total C13-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C13-Chloroparaffine incl. LOQ	13.0	µg/kg dm
Total C10- to C13-Chloroparaff. excl. LOQ	ND	µg/kg dm
Total C10- to C13-Chloroparaff. incl. LOQ	55.5	µg/kg dm

CYR57 MCCP (chloroparaffins) ~ C14-C17 ~ soil/sludge/sed

Method AIR OC 147, LRMS (NCI)

C14H25Cl5-Chlorparaffins	< 6.0	µg/kg dm
C14H24Cl6-Chlorparaffins	< 6.5	µg/kg dm
C14H23Cl7-Chlorparaffins	< 6.0	µg/kg dm
C14H22Cl8-Chlorparaffins	< 5.0	µg/kg dm
C14H21Cl9-Chlorparaffins	< 5.0	µg/kg dm
Total C14 excl. LOQ	ND	µg/kg dm
Total C14 incl. LOQ	28.5	µg/kg dm
C15H26Cl6-Chlorparaffins	< 4.0	µg/kg dm
C15H25Cl7-Chlorparaffins	< 5.0	µg/kg dm
C15H24Cl8-Chlorparaffins	< 5.0	µg/kg dm
C15H23Cl9-Chlorparaffins	< 5.0	µg/kg dm
Total C15 excl. LOQ	ND	µg/kg dm
Total C15 incl. LOQ	19.0	µg/kg dm

This report will replace report number: AR-11-GF-014462-01

C16H28Cl6-Chlorparaffins	< 5.0	µg/kg dm
C16H27Cl7-Chlorparaffins	< 6.0	µg/kg dm
C16H26Cl8-Chlorparaffins	< 6.0	µg/kg dm
C16H25Cl9-Chlorparaffins	< 5.0	µg/kg dm
Total C16 excl. LOQ	ND	µg/kg dm
Total C16 incl. LOQ	22.0	µg/kg dm
C17H30Cl6-Chlorparaffins	< 5.0	µg/kg dm
C17H29Cl7-Chlorparaffins	< 6.5	µg/kg dm
C17H28Cl8-Chlorparaffins	< 6.0	µg/kg dm
C17H27Cl9-Chlorparaffins	< 6.0	µg/kg dm
Total C17 excl. LOQ	ND	µg/kg dm
Total C17 incl. LOQ	23.5	µg/kg dm
Total C14 -C17 excl. LOQ	ND	µg/kg dm
Total C14 - C17 incl. LOQ	93.0	µg/kg dm

CYR33 PAH ~ 16 EPA ~ materials/products/environment

Method AIR OC 174, LRMS

Naphthalene	184	µg/kg dm
Acenaphthylene	46.5	µg/kg dm
Acenaphthene	< 9.04	µg/kg dm
Fluorene	17.0	µg/kg dm
Phenanthrene	182	µg/kg dm
Anthracene	29.7	µg/kg dm
Fluoranthene	297	µg/kg dm
Pyrene	204	µg/kg dm
Benz(a)anthracene	89.0	µg/kg dm
Chrysene	157	µg/kg dm
Benzo(b/j)fluoranthene	617	µg/kg dm
Benzo(k)fluoranthene	128	µg/kg dm
Benzo(a)pyrene	98.6	µg/kg dm
Dibenz(a,h)anthracene	64.2	µg/kg dm
Indeno(1,2,3-cd)pyrene	281	µg/kg dm
Benzo(ghi)perylene	213	µg/kg dm
Total 16 EPA-PAH excl. LOQ	2610	µg/kg dm
Total 16 EPA-PAH incl. LOQ	2620	µg/kg dm

This report will replace report number: AR-11-GF-014462-01

GF013 PFC (11) ~ solids		
Method	AIR OC 150, LC-MS/MS	
Perfluorooctane sulfonate (PFOS)	15.1	µg/kg dm
Perfluorooctanoic acid (PFOA)	< 2.5	µg/kg dm
total PFOS / PFOA excl. LOQ	15.1	µg/kg dm
total PFOS / PFOA incl. LOQ	17.6	µg/kg dm
Perfluorbutansulfonate (PFBS)	< 3.7	µg/kg dm
Perfluorohexane sulfonate (PFHxS)	< 3.7	µg/kg dm
Perfluorohexanoic acid (PFHxA)	< 2.5	µg/kg dm
Perfluorheptanoic acid (PFHpA)	< 2.5	µg/kg dm
Perfluorooctane-sulfonamide (PFOSA)	22.3	µg/kg dm
Perfluorononanoic acid (PFNA)	< 2.5	µg/kg dm
Perfluorodecane sulphonate (PFDS)	< 3.7	µg/kg dm
Perfluordecanoic acid (PFDA)	< 2.5	µg/kg dm
Perfluorododecane acid (PFDoA)	< 2.5	µg/kg dm
total PFC compounds excl. LOQ	37.4	µg/kg dm
total PFC compounds incl. LOQ	63.4	µg/kg dm

TEQ excl. LOQ - TEQ-value calculated by including the quantified congeners only

TEQ incl. LOQ - TEQ-value calculated by including the non-quantified congeners by taking the full value of their LOQ

< - Concentration below the indicated limit of quantification (LOQ)

ND - not determined since none of the corresponding congeners was above the LOQ

This report will replace report number: AR-11-GF-014462-01

Sample Code 710-2011-10263004

Reference	Soil
Sample sender	Patrick van Hees
Reception date time	22.06.2011
Purchase order date	21.06.2011
Client sample code	A7118
End analysis	12.07.2011

Test results

CYP07 dry matter
 Method DIN 38414-S2
 dry residue

7.3 %

CY106 PCDD/F (17) + totals ~ environment
 Method AIR DF 100, HRMS

2,3,7,8-TetraCDD	5.69	ng/kg dm
Total TetraCDD	145	ng/kg dm
1,2,3,7,8-PentaCDD	14.3	ng/kg dm
Total PentaCDD	336	ng/kg dm
1,2,3,4,7,8-HexaCDD	24.2	ng/kg dm
1,2,3,6,7,8-HexaCDD	242	ng/kg dm
1,2,3,7,8,9-HexaCDD	74.0	ng/kg dm
Total HexaCDD	1110	ng/kg dm
1,2,3,4,6,7,8-HeptaCDD	2760	ng/kg dm
Total HeptaCDD	4760	ng/kg dm
OctaCDD	15000	ng/kg dm
Total Tetra- to OctaCDD	21300	ng/kg dm
2,3,7,8-TetraCDF	83.4	ng/kg dm
Total TetraCDF	364	ng/kg dm
1,2,3,7,8-PentaCDF	13.6	ng/kg dm
2,3,4,7,8-PentaCDF	20.5	ng/kg dm
Total PentaCDF	598	ng/kg dm
1,2,3,4,7,8-HexaCDF	104	ng/kg dm
1,2,3,6,7,8-HexaCDF	39.4	ng/kg dm
1,2,3,7,8,9-HexaCDF	< 2.46	ng/kg dm
2,3,4,6,7,8-HexaCDF	34.2	ng/kg dm
Total HexaCDF	4780	ng/kg dm

This report will replace report number: AR-11-GF-014462-01

1,2,3,4,6,7,8-HeptaCDF	9740	ng/kg dm
1,2,3,4,7,8,9-HeptaCDF	178	ng/kg dm
Total HeptaCDF	20900	ng/kg dm
OctaCDF	16800	ng/kg dm
Total Tetra- to OctaCDF	43400	ng/kg dm
Total Tetra- to OctaCDD/F	64800	ng/kg dm
WHO(1998)-PCDD/F TEQ excl. LOQ	221	ng/kg dm
WHO(1998)-PCDD/F TEQ incl. LOQ	221	ng/kg dm
I-TEQ (NATO/CCMS) excl. LOQ	243	ng/kg dm
I-TEQ (NATO/CCMS) incl. LOQ	243	ng/kg dm
CY043 PCB ~ dioxin-like / 12 WHO ~ environment		
Method AIR DF 100, HRMS		
PCB 77	289	ng/kg dm
PCB 81	1.57	ng/kg dm
PCB 105	4340	ng/kg dm
PCB 114	115	ng/kg dm
PCB 118	10800	ng/kg dm
PCB 123	75.0	ng/kg dm
PCB 126	40.0	ng/kg dm
PCB 156	1480	ng/kg dm
PCB 157	350	ng/kg dm
PCB 167	654	ng/kg dm
PCB 169	4.75	ng/kg dm
PCB 189	182	ng/kg dm
WHO(1998)-PCB TEQ excl. LOQ	6.60	ng/kg dm
WHO(1998)-PCB TEQ incl. LOQ	6.60	ng/kg dm
CYR07 SCCP (C10-C13] ~ soil / sludge / sediment		
Method AIR OC 147, LRMS (NCI)		
C10H17Cl5-Chloroparaffine	< 1.5	µg/kg dm
C10H16Cl6-Chloroparaffine	< 3.0	µg/kg dm
C10H15Cl7-Chloroparaffine	< 3.5	µg/kg dm
C10H14Cl8-Chloroparaffine	< 2.5	µg/kg dm
Total C10-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C10-Chloroparaffine incl. LOQ	10.5	µg/kg dm

This report will replace report number: AR-11-GF-014462-01

C11H19Cl5-Chloroparaffine	< 1.5	µg/kg dm
C11H18Cl6-Chloroparaffine	< 2.5	µg/kg dm
C11H17Cl7-Chloroparaffine	< 3.5	µg/kg dm
C11H16Cl8-Chloroparaffine	< 3.5	µg/kg dm
C11H15Cl9-Chloroparaffine	< 3.0	µg/kg dm
C11H14Cl10-Chloroparaffine	< 2.5	µg/kg dm
Total C11-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C11-Chloroparaffine incl. LOQ	16.5	µg/kg dm
C12H20Cl6-Chloroparaffine	< 2.0	µg/kg dm
C12H19Cl7-Chloroparaffine	< 3.0	µg/kg dm
C12H18Cl8-Chloroparaffine	< 4.0	µg/kg dm
C12H17Cl9-Chloroparaffine	< 3.5	µg/kg dm
C12H16Cl10-Chloroparaffine	< 3.0	µg/kg dm
Total C12-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C12-Chloroparaffine incl. LOQ	15.5	µg/kg dm
C13H21Cl7-Chloroparaffine	< 3.0	µg/kg dm
C13H20Cl8-Chloroparaffine	< 3.5	µg/kg dm
C13H19Cl9-Chloroparaffine	< 3.5	µg/kg dm
C13H18Cl10-Chloroparaffine	< 3.0	µg/kg dm
Total C13-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C13-Chloroparaffine incl. LOQ	13.0	µg/kg dm
Total C10- to C13-Chloroparaff. excl.LOQ	ND	µg/kg dm
Total C10- to C13-Chloroparaff. incl.LOQ	55.5	µg/kg dm

CYR57 MCCP (chloroparaffins) ~ C14-C17 ~ soil/sludge/sed

Method AIR OC 147, LRMS (NCI)

C14H25Cl5-Chlorparaffins	27.0	µg/kg dm
C14H24Cl6-Chlorparaffins	105	µg/kg dm
C14H23Cl7-Chlorparaffins	104	µg/kg dm
C14H22Cl8-Chlorparaffins	53.0	µg/kg dm
C14H21Cl9-Chlorparaffins	< 8.0	µg/kg dm
Total C14 excl. LOQ	289	µg/kg dm
Total C14 incl. LOQ	297	µg/kg dm
C15H26Cl6-Chlorparaffins	154	µg/kg dm
C15H25Cl7-Chlorparaffins	186	µg/kg dm
C15H24Cl8-Chlorparaffins	84.7	µg/kg dm
C15H23Cl9-Chlorparaffins	11.8	µg/kg dm
Total C15 excl. LOQ	436	µg/kg dm
Total C15 incl. LOQ	436	µg/kg dm

This report will replace report number: AR-11-GF-014462-01

C16H28Cl6-Chlorparaffins	135	µg/kg dm
C16H27Cl7-Chlorparaffins	161	µg/kg dm
C16H26Cl8-Chlorparaffins	59.8	µg/kg dm
C16H25Cl9-Chlorparaffins	10.5	µg/kg dm
Total C16 excl. LOQ	366	µg/kg dm
Total C16 incl. LOQ	366	µg/kg dm
C17H30Cl6-Chlorparaffins	< 14.0	µg/kg dm
C17H29Cl7-Chlorparaffins	< 15.0	µg/kg dm
C17H28Cl8-Chlorparaffins	< 12.0	µg/kg dm
C17H27Cl9-Chlorparaffins	< 8.0	µg/kg dm
Total C17 excl. LOQ	ND	µg/kg dm
Total C17 incl. LOQ	49.0	µg/kg dm
Total C14 -C17 excl. LOQ	1090	µg/kg dm
Total C14 - C17 incl. LOQ	1150	µg/kg dm

CYR33 PAH ~ 16 EPA ~ materials/products/environment

Method AIR OC 174, LRMS

Naphthalene	119	µg/kg dm
Acenaphthylene	< 31.0	µg/kg dm
Acenaphthene	< 4.83	µg/kg dm
Fluorene	< 11.6	µg/kg dm
Phenanthrene	135	µg/kg dm
Anthracene	19.6	µg/kg dm
Fluoranthene	221	µg/kg dm
Pyrene	160	µg/kg dm
Benz(a)anthracene	72.6	µg/kg dm
Chrysene	131	µg/kg dm
Benzo(b/j)fluoranthene	492	µg/kg dm
Benzo(k)fluoranthene	102	µg/kg dm
Benzo(a)pyrene	77.8	µg/kg dm
Dibenz(a,h)anthracene	50.1	µg/kg dm
Indeno(1,2,3-cd)pyrene	214	µg/kg dm
Benzo(ghi)perylene	151	µg/kg dm
Total 16 EPA-PAH excl. LOQ	1950	µg/kg dm
Total 16 EPA-PAH incl. LOQ	1990	µg/kg dm

This report will replace report number: AR-11-GF-014462-01

GF013 PFC (11) ~ solids		
Method	AIR OC 150, LC-MS/MS	
Perfluorooctane sulfonate (PFOS)	26.9	µg/kg dm
Perfluorooctanoic acid (PFOA)	4.4	µg/kg dm
total PFOS / PFOA excl. LOQ	31.3	µg/kg dm
total PFOS / PFOA incl. LOQ	31.3	µg/kg dm
Perfluorbutansulfonate (PFBS)	< 3.8	µg/kg dm
Perfluorohexane sulfonate (PFHxS)	< 3.8	µg/kg dm
Perfluorohexanoic acid (PFHxA)	< 2.5	µg/kg dm
Perfluorheptanoic acid (PFHpA)	< 2.5	µg/kg dm
Perfluorooctane-sulfonamide (PFOSA)	28.6	µg/kg dm
Perfluorononanoic acid (PFNA)	< 2.5	µg/kg dm
Perfluorodecane sulphonate (PFDS)	< 3.8	µg/kg dm
Perfluordecanoic acid (PFDA)	< 2.5	µg/kg dm
Perfluorododecane acid (PFDoA)	< 2.5	µg/kg dm
total PFC compounds excl. LOQ	59.9	µg/kg dm
total PFC compounds incl. LOQ	84.0	µg/kg dm

TEQ excl. LOQ - TEQ-value calculated by including the quantified congeners only

TEQ incl. LOQ - TEQ-value calculated by including the non-quantified congeners by taking the full value of their LOQ

< - Concentration below the indicated limit of quantification (LOQ)

ND - not determined since none of the corresponding congeners was above the LOQ

This report will replace report number: AR-11-GF-014462-01

Sample Code 710-2011-10263005

Reference	Soil
Sample sender	Patrick van Hees
Reception date time	22.06.2011
Purchase order date	21.06.2011
Client sample code	A7119
End analysis	12.07.2011

Test results

CYP07 dry matter
 Method DIN 38414-S2
 dry residue

6.3 %

CY106 PCDD/F (17) + totals ~ environment
 Method AIR DF 100, HRMS

2,3,7,8-TetraCDD	2.24	ng/kg dm
Total TetraCDD	99.2	ng/kg dm
1,2,3,7,8-PentaCDD	12.0	ng/kg dm
Total PentaCDD	182	ng/kg dm
1,2,3,4,7,8-HexaCDD	10.1	ng/kg dm
1,2,3,6,7,8-HexaCDD	63.4	ng/kg dm
1,2,3,7,8,9-HexaCDD	42.3	ng/kg dm
Total HexaCDD	435	ng/kg dm
1,2,3,4,6,7,8-HeptaCDD	545	ng/kg dm
Total HeptaCDD	965	ng/kg dm
OctaCDD	2100	ng/kg dm
Total Tetra- to OctaCDD	3790	ng/kg dm
2,3,7,8-TetraCDF	44.2	ng/kg dm
Total TetraCDF	236	ng/kg dm
1,2,3,7,8-PentaCDF	16.0	ng/kg dm
2,3,4,7,8-PentaCDF	23.8	ng/kg dm
Total PentaCDF	265	ng/kg dm
1,2,3,4,7,8-HexaCDF	30.2	ng/kg dm
1,2,3,6,7,8-HexaCDF	18.2	ng/kg dm
1,2,3,7,8,9-HexaCDF	< 0.418	ng/kg dm
2,3,4,6,7,8-HexaCDF	19.6	ng/kg dm
Total HexaCDF	471	ng/kg dm

This report will replace report number: AR-11-GF-014462-01

1,2,3,4,6,7,8-HeptaCDF	854	ng/kg dm
1,2,3,4,7,8,9-HeptaCDF	20.2	ng/kg dm
Total HeptaCDF	1760	ng/kg dm
OctaCDF	1290	ng/kg dm
Total Tetra- to OctaCDF	4010	ng/kg dm
Total Tetra- to OctaCDD/F	7800	ng/kg dm
WHO(1998)-PCDD/F TEQ excl. LOQ	64.3	ng/kg dm
WHO(1998)-PCDD/F TEQ incl. LOQ	64.4	ng/kg dm
I-TEQ (NATO/CCMS) excl. LOQ	61.4	ng/kg dm
I-TEQ (NATO/CCMS) incl. LOQ	61.4	ng/kg dm
CY043 PCB ~ dioxin-like / 12 WHO ~ environment		
Method AIR DF 100, HRMS		
PCB 77	206	ng/kg dm
PCB 81	1.68	ng/kg dm
PCB 105	894	ng/kg dm
PCB 114	35.8	ng/kg dm
PCB 118	2420	ng/kg dm
PCB 123	32.8	ng/kg dm
PCB 126	29.2	ng/kg dm
PCB 156	509	ng/kg dm
PCB 157	91.8	ng/kg dm
PCB 167	230	ng/kg dm
PCB 169	5.01	ng/kg dm
PCB 189	78.1	ng/kg dm
WHO(1998)-PCB TEQ excl. LOQ	3.66	ng/kg dm
WHO(1998)-PCB TEQ incl. LOQ	3.66	ng/kg dm
CYR07 SCCP (C10-C13] ~ soil / sludge / sediment		
Method AIR OC 147, LRMS (NCI)		
C10H17Cl5-Chloroparaffine	< 1.5	µg/kg dm
C10H16Cl6-Chloroparaffine	< 3.0	µg/kg dm
C10H15Cl7-Chloroparaffine	< 3.5	µg/kg dm
C10H14Cl8-Chloroparaffine	< 2.5	µg/kg dm
Total C10-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C10-Chloroparaffine incl. LOQ	10.5	µg/kg dm

This report will replace report number: AR-11-GF-014462-01

C11H19Cl5-Chloroparaffine	< 1.5	µg/kg dm
C11H18Cl6-Chloroparaffine	< 2.5	µg/kg dm
C11H17Cl7-Chloroparaffine	< 3.5	µg/kg dm
C11H16Cl8-Chloroparaffine	< 3.5	µg/kg dm
C11H15Cl9-Chloroparaffine	< 3.0	µg/kg dm
C11H14Cl10-Chloroparaffine	< 2.5	µg/kg dm
Total C11-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C11-Chloroparaffine incl. LOQ	16.5	µg/kg dm
C12H20Cl6-Chloroparaffine	< 2.0	µg/kg dm
C12H19Cl7-Chloroparaffine	< 3.0	µg/kg dm
C12H18Cl8-Chloroparaffine	< 4.0	µg/kg dm
C12H17Cl9-Chloroparaffine	< 3.5	µg/kg dm
C12H16Cl10-Chloroparaffine	< 3.0	µg/kg dm
Total C12-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C12-Chloroparaffine incl. LOQ	15.5	µg/kg dm
C13H21Cl7-Chloroparaffine	< 3.0	µg/kg dm
C13H20Cl8-Chloroparaffine	< 3.5	µg/kg dm
C13H19Cl9-Chloroparaffine	< 3.5	µg/kg dm
C13H18Cl10-Chloroparaffine	< 3.0	µg/kg dm
Total C13-Chloroparaffine excl. LOQ	ND	µg/kg dm
Total C13-Chloroparaffine incl. LOQ	13.0	µg/kg dm
Total C10- to C13-Chloroparaff. excl.LOQ	ND	µg/kg dm
Total C10- to C13-Chloroparaff. incl.LOQ	55.5	µg/kg dm

CYR57 MCCP (chloroparaffins) ~ C14-C17 ~ soil/sludge/sed

Method AIR OC 147, LRMS (NCI)

C14H25Cl5-Chlorparaffins	< 6.0	µg/kg dm
C14H24Cl6-Chlorparaffins	< 6.5	µg/kg dm
C14H23Cl7-Chlorparaffins	< 6.0	µg/kg dm
C14H22Cl8-Chlorparaffins	< 5.0	µg/kg dm
C14H21Cl9-Chlorparaffins	< 5.0	µg/kg dm
Total C14 excl. LOQ	ND	µg/kg dm
Total C14 incl. LOQ	28.5	µg/kg dm
C15H26Cl6-Chlorparaffins	< 4.0	µg/kg dm
C15H25Cl7-Chlorparaffins	< 5.0	µg/kg dm
C15H24Cl8-Chlorparaffins	< 5.0	µg/kg dm
C15H23Cl9-Chlorparaffins	< 5.0	µg/kg dm
Total C15 excl. LOQ	ND	µg/kg dm
Total C15 incl. LOQ	19.0	µg/kg dm

This report will replace report number: AR-11-GF-014462-01

C16H28Cl6-Chlorparaffins	< 5.0	µg/kg dm
C16H27Cl7-Chlorparaffins	< 6.0	µg/kg dm
C16H26Cl8-Chlorparaffins	< 6.0	µg/kg dm
C16H25Cl9-Chlorparaffins	< 5.0	µg/kg dm
Total C16 excl. LOQ	ND	µg/kg dm
Total C16 incl. LOQ	22.0	µg/kg dm
C17H30Cl6-Chlorparaffins	< 5.0	µg/kg dm
C17H29Cl7-Chlorparaffins	< 6.5	µg/kg dm
C17H28Cl8-Chlorparaffins	< 6.0	µg/kg dm
C17H27Cl9-Chlorparaffins	< 6.0	µg/kg dm
Total C17 excl. LOQ	ND	µg/kg dm
Total C17 incl. LOQ	23.5	µg/kg dm
Total C14 -C17 excl. LOQ	ND	µg/kg dm
Total C14 - C17 incl. LOQ	93.0	µg/kg dm

CYR33 PAH ~ 16 EPA ~ materials/products/environment

Method AIR OC 174, LRMS

Naphthalene	340	µg/kg dm
Acenaphthylene	66.6	µg/kg dm
Acenaphthene	46.2	µg/kg dm
Fluorene	70.0	µg/kg dm
Phenanthrene	442	µg/kg dm
Anthracene	104	µg/kg dm
Fluoranthene	604	µg/kg dm
Pyrene	425	µg/kg dm
Benz(a)anthracene	251	µg/kg dm
Chrysene	292	µg/kg dm
Benzo(b/j)fluoranthene	851	µg/kg dm
Benzo(k)fluoranthene	241	µg/kg dm
Benzo(a)pyrene	303	µg/kg dm
Dibenz(a,h)anthracene	101	µg/kg dm
Indeno(1,2,3-cd)pyrene	395	µg/kg dm
Benzo(ghi)perylene	352	µg/kg dm
Total 16 EPA-PAH excl. LOQ	4880	µg/kg dm
Total 16 EPA-PAH incl. LOQ	4880	µg/kg dm

This report will replace report number: AR-11-GF-014462-01

GF013	PFC (11) ~ solids		
Method	AIR OC 150, LC-MS/MS		
	Perfluorooctane sulfonate (PFOS)	16.3	µg/kg dm
	Perfluorooctanoic acid (PFOA)	< 2.4	µg/kg dm
	total PFOS / PFOA excl. LOQ	16.3	µg/kg dm
	total PFOS / PFOA incl. LOQ	18.7	µg/kg dm
	Perfluorbutansulfonate (PFBS)	< 3.6	µg/kg dm
	Perfluorohexane sulfonate (PFHxS)	< 3.6	µg/kg dm
	Perfluorohexanoic acid (PFHxA)	< 2.4	µg/kg dm
	Perfluorheptanoic acid (PFHpA)	< 2.4	µg/kg dm
	Perfluorooctane-sulfonamide (PFOSA)	18.8	µg/kg dm
	Perfluorononanoic acid (PFNA)	< 2.4	µg/kg dm
	Perfluorodecane sulphonate (PFDS)	< 3.6	µg/kg dm
	Perfluordecanoic acid (PFDA)	< 2.4	µg/kg dm
	Perfluorododecane acid (PFDoA)	< 2.4	µg/kg dm
	total PFC compounds excl. LOQ	35.1	µg/kg dm
	total PFC compounds incl. LOQ	60.0	µg/kg dm

TEQ excl. LOQ - TEQ-value calculated by including the quantified congeners only

TEQ incl. LOQ - TEQ-value calculated by including the non-quantified congeners by taking the full value of their LOQ

< - Concentration below the indicated limit of quantification (LOQ)

ND - not determined since none of the corresponding congeners was above the LOQ

This electronically generated test report has been checked and approved. It is also valid without signature.

Dipl.-Ing. Burkhard Homburg
(Analytical Services Manager)

Analysrapport

Länsstyrelsen i Västra Götalands län
Ann-Sofie Wernersson
Ekelundsg 1
403 40 Göteborg

Rapport utfärdad av
akkrediterat laboratorium

Report issued by
Accredited Laboratory



Journalnr	A007119-11	Sida 1 (2)	
Kundnr	8429501-1851518		
Provtyp	Sediment		
Provtagare/referens	Cecilia Niklasson	Provtagningsdatum	2011-06-15
		Provet ankom	2011-06-17
		Analysrapport klar	2011-07-20
Provets märkning	LX1 YT		

Analysnamn	Resultat	Enhet	Mäto.	Ref/instr.	Ort
Torrsubstans	7.2	%	± 5;10%10	SS-EN 12880	LE
2-klorfenol	<0.0050	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
3-klorfenol	<0.00039	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
4-klorfenol	<0.00039	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,6-diklorfenol	<0.00039	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,4+2,5-diklorfenol	<0.005	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
3,5-diklorfenol	<0.00039	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,3-diklorfenol	<0.00039	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
3,4-diklorfenol	<0.00039	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,4,6-triklorfenol	<0.00039	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,3,6-triklorfenol	<0.00039	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,3,5-triklorfenol	<0.00039	mg/kg Ts	± 30 %	LidMiljö.0A.01.20	LE
2,4,5-triklorfenol	<0.00039	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,3,4-triklorfenol	<0.00039	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
3,4,5-triklorfenol	<0.00039	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,3,5,6-tetraklorfenol	<0.00039	mg/kg Ts	± 30 %	LidMiljö.0A.01.20	LE
2,3,4,6-tetraklorfenol.	<0.00039	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,3,4,5-tetraklorfenol	<0.00039	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
Pentaklorfenol	<0.00039	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
* TOC beräknat	13.4	% Ts		SNV 4889	LE
Glödförlust	23.5	% Ts	± 10 %10	SS-EN 12879	LE
Monobutyltenn, MBT	5.4	µg/kg TS			Galab
Dibutyltenn, DBT	<1.0	µg/kg TS			Galab
Tributyltenn, TBT	<1.0	µg/kg TS			Galab
Tetrabutyltenn	<1.0	µg/kg TS			Galab
Monooktyltenn	<1.0	µg/kg TS			Galab
Dioktyltenn	<1.0	µg/kg TS			Galab
Tricyklohexyltenn	<1.0	µg/kg TS			Galab
Monofenyltenn, MPT	<1.0	µg/kg TS			Galab
Difenyltenn; DPT	<1.0	µg/kg TS			Galab
Trifenyltenn, TPT	<1.0	µg/kg TS			Galab
* Dimetylftalat	<0.14	mg/kg Ts			LE
* Dietylftalat	<0.14	mg/kg Ts			LE
* Di-n-butylftalat	<0.14	mg/kg Ts			LE
* Butylbensylftalat	<0.14	mg/kg Ts			LE

Kopia till:
//mailsvar//

Metallerna är syrauppslutna enligt SS028150-2.
Förklaring till förkortningar och *, se omstående sida.

Analysrapport

Journalnr	A007119-11	Sida 2 (2)
Kundnr	8429501-1851518	
Provtyp	Sediment	

Analysnamn	Resultat	Enhet	Mäto.	Ref/instr.	Ort
* Di-(2-etylhexyl)ftalat	2.1	mg/kg Ts			LE
* Di-n-oktylftalat	<0.14	mg/kg Ts			LE
* Di-iso-decylftalat	<1.4	mg/kg Ts			LE
* Di-iso-nonylftalat	<1.4	mg/kg Ts			LE
Arsenik As	33	mg/kg Ts	± 30 %	ICP-AES	LE
* Barium, Ba	530	mg/kg Ts	± 20 % B	ICP-AES	LE
Kadmium Cd	3.3	mg/kg Ts	± 15 %	ICP-AES	LE
Kobolt Co	16	mg/kg Ts	± 20 %	ICP-AES	LE
Krom Cr	32	mg/kg Ts	± 15 %	ICP-AES	LE
Koppar Cu	90	mg/kg Ts	± 15 %	ICP-AES	LE
Kvicksilver Hg	0.48	mg/kg Ts	± 25 %	AFS (kallförångning)	LE
Nickel Ni	34	mg/kg Ts	± 15 %	ICP-AES	LE
Bly Pb	140	mg/kg Ts	± 15 %	ICP-AES	LE
Vanadin V	65	mg/kg Ts	± 15 %	ICP-AES	LE
Zink Zn	580	mg/kg Ts	± 15 %	ICP-AES	LE

Se bilagor för dioxiner, dioxinliknande PCB, klorbensener, klorparafiner, PAH, PFC, Nonyl och Oktylfenol.

Bo Olsson 010-490 81 54

Rapportansvarig

Denna rapport är en osignerad rapportkopia

Analysrapport

Länsstyrelsen i Västra Götalands län
Ann-Sofie Wernersson
Ekelundsg 1
403 40 Göteborg

Rapport utfärdad av
ackrediterat laboratorium

Report issued by
Accredited Laboratory



Journalnr	A007118-11	Sida 1 (2)	
Kundnr	8429501-1851518		
Provtyp	Sediment		
Provtagare/referens	Cecilia Niklasson	Provtagningsdatum	2011-06-15
		Provet ankom	2011-06-17
		Analysrapport klar	2011-07-20
Provets märkning	LX2 YT		

Analysnamn	Resultat	Enhet	Mäto.	Ref/instr.	Ort
Torrsubstans	7.5	%	± 5;10%10	SS-EN 12880	LE
2-klorfenol	<0.0050	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
3-klorfenol	<0.00040	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
4-klorfenol	<0.00040	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,6-diklorfenol	<0.00040	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,4+2,5-diklorfenol	<0.005	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
3,5-diklorfenol	<0.00040	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,3-diklorfenol	<0.00040	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
3,4-diklorfenol	<0.00040	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,4,6-triklorfenol	<0.00040	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,3,6-triklorfenol	<0.00040	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,3,5-triklorfenol	<0.00040	mg/kg Ts	± 30 %	LidMiljö.0A.01.20	LE
2,4,5-triklorfenol	<0.00040	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,3,4-triklorfenol	<0.00040	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
3,4,5-triklorfenol	<0.00040	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,3,5,6-tetraklorfenol	<0.00040	mg/kg Ts	± 30 %	LidMiljö.0A.01.20	LE
2,3,4,6-tetraklorfenol.	<0.00040	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,3,4,5-tetraklorfenol	<0.00040	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
Pentaklorfenol	0.0016	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
* TOC beräknat	18.5	% Ts		SNV 4889	LE
Glödförlust	32.5	% Ts	± 10 %10	SS-EN 12879	LE
Monobutyltenn, MBT	7.4	µg/kg TS			Galab
Dibutyltenn, DBT	3.0	µg/kg TS			Galab
Tributyltenn, TBT	2.0	µg/kg TS			Galab
Tetrabutyltenn	<1.0	µg/kg TS			Galab
Monooktyltenn	<1.0	µg/kg TS			Galab
Dioktyltenn	<1.0	µg/kg TS			Galab
Tricyklohexyltenn	<1.0	µg/kg TS			Galab
Monofenyltenn, MPT	<1.0	µg/kg TS			Galab
Difenyltenn; DPT	<1.0	µg/kg TS			Galab
Trifenyltenn, TPT	<1.0	µg/kg TS			Galab
* Dimetylftalat	<0.13	mg/kg Ts			LE
* Dietylftalat	<0.13	mg/kg Ts			LE
* Di-n-butylftalat	0.49	mg/kg Ts			LE
* Butylbensylftalat	<0.13	mg/kg Ts			LE

Kopia till:
//mailsvar//

Metallerna är syrauppslutna enligt SS028150-2.
Förklaring till förkortningar och *, se omstående sida.

Journalnr	A007118-11	Sida 2 (2)
Kundnr	8429501-1851518	
Provtyp	Sediment	

Analysnamn	Resultat	Enhet	Mäto.	Ref/instr.	Ort
* Di-(2-etylhexyl)ftalat	370	mg/kg Ts			LE
* Di-n-oktylftalat	<0.13	mg/kg Ts			LE
* Di-iso-decylftalat	<1.3	mg/kg Ts			LE
* Di-iso-nonylftalat	<1.3	mg/kg Ts			LE
Arsenik As	6.9	mg/kg Ts	± 20 %	ICP-MS	LE
* Barium, Ba	130	mg/kg Ts	± 20 % B	ICP-AES	LE
Kadmium Cd	1.8	mg/kg Ts	± 15 %	ICP-AES	LE
Kobolt Co	9.3	mg/kg Ts	± 20 %	ICP-AES	LE
Krom Cr	62	mg/kg Ts	± 15 %	ICP-AES	LE
Koppar Cu	340	mg/kg Ts	± 15 %	ICP-AES	LE
Kvicksilver Hg	0.85	mg/kg Ts	± 25 %	AFS (kallförångning)	LE
Nickel Ni	37	mg/kg Ts	± 15 %	ICP-AES	LE
Bly Pb	110	mg/kg Ts	± 15 %	ICP-AES	LE
Vanadin V	40	mg/kg Ts	± 15 %	ICP-AES	LE
Zink Zn	280	mg/kg Ts	± 15 %	ICP-AES	LE

Se bilagor för dioxiner, dioxinliknande PCB, klorbensener, klorparafiner, PAH, PFC, Nonyl och Oktylfenol.

Bo Olsson 010-490 81 54

Rapportansvarig

Denna rapport är en osignerad rapportkopia

Analysrapport

Länsstyrelsen i Västra Götalands län
Ann-Sofie Wernersson
Ekelundsg 1
403 40 Göteborg

Rapport utfärdad av
ackrediterat laboratorium

Report issued by
Accredited Laboratory



Journalnr	A007115-11	Sida 1 (2)	
Kundnr	8429501-1851518		
Provtyp	Sediment		
Provtagare/referens	Cecilia Niklasson	Provtagningsdatum	2011-06-15
		Provet ankom	2011-06-17
		Analysrapport klar	2011-07-20
Provets märkning	LX5 YT		

Analysnamn	Resultat	Enhet	Mäto.	Ref/instr.	Ort
Torrsubstans	6.4	%	± 5;10%10	SS-EN 12880	LE
2-klorfenol	<0.0050	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
3-klorfenol	<0.00034	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
4-klorfenol	<0.00034	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,6-diklorfenol	<0.00034	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,4+2,5-diklorfenol	<0.005	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
3,5-diklorfenol	<0.00034	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,3-diklorfenol	<0.00034	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
3,4-diklorfenol	<0.00034	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,4,6-triklorfenol	<0.00034	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,3,6-triklorfenol	<0.00034	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,3,5-triklorfenol	<0.00034	mg/kg Ts	± 30 %	LidMiljö.0A.01.20	LE
2,4,5-triklorfenol	<0.00034	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,3,4-triklorfenol	<0.00034	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
3,4,5-triklorfenol	<0.00034	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,3,5,6-tetraklorfenol	<0.00034	mg/kg Ts	± 30 %	LidMiljö.0A.01.20	LE
2,3,4,6-tetraklorfenol.	<0.00034	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,3,4,5-tetraklorfenol	<0.00034	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
Pentaklorfenol	<0.00034	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
* TOC beräknat	15.6	% Ts		SNV 4889	LE
Glödförlust	27.3	% Ts	± 10 %10	SS-EN 12879	LE
Monobutyltenn, MBT	15	µg/kg TS			Galab
Dibutyltenn, DBT	5.7	µg/kg TS			Galab
Tributyltenn, TBT	4.8	µg/kg TS			Galab
Tetrabutyltenn	<1.0	µg/kg TS			Galab
Monooktyltenn	<1.0	µg/kg TS			Galab
Dioktyltenn	<1.0	µg/kg TS			Galab
Tricyklohexyltenn	<1.0	µg/kg TS			Galab
Monofenyltenn, MPT	<1.0	µg/kg TS			Galab
Difenyltenn; DPT	<1.0	µg/kg TS			Galab
Trifenyltenn, TPT	<1.0	µg/kg TS			Galab
* Dimetylftalat	<0.16	mg/kg Ts			LE
* Dietylftalat	<0.16	mg/kg Ts			LE
* Di-n-butylftalat	<0.16	mg/kg Ts			LE
* Butylbensylftalat	<0.16	mg/kg Ts			LE

Kopia till:
//mailsvar//

Metallerna är syrauppslutna enligt SS028150-2.
Förklaring till förkortningar och *, se omstående sida.

Analysrapport

Journalnr	A007115-11	Sida 2 (2)
Kundnr	8429501-1851518	
Provtyp	Sediment	

Analysnamn	Resultat	Enhet	Mäto.	Ref/instr.	Ort
* Di-(2-etylhexyl)ftalat	<1.6	mg/kg Ts			LE
* Di-n-oktylftalat	<0.16	mg/kg Ts			LE
* Di-iso-decylftalat	<1.6	mg/kg Ts			LE
* Di-iso-nonylftalat	<0.0	mg/kg Ts			LE
Arsenik As	9.7	mg/kg Ts	± 30 %	ICP-AES	LE
* Barium, Ba	230	mg/kg Ts	± 20 % B	ICP-AES	LE
Kadmium Cd	3.0	mg/kg Ts	± 15 %	ICP-AES	LE
Kobolt Co	14	mg/kg Ts	± 20 %	ICP-AES	LE
Krom Cr	43	mg/kg Ts	± 15 %	ICP-AES	LE
Koppar Cu	92	mg/kg Ts	± 15 %	ICP-AES	LE
Kvicksilver Hg	0.57	mg/kg Ts	± 25 %	AFS (kallförångning)	LE
Nickel Ni	26	mg/kg Ts	± 15 %	ICP-AES	LE
Bly Pb	160	mg/kg Ts	± 15 %	ICP-AES	LE
Vanadin V	61	mg/kg Ts	± 15 %	ICP-AES	LE
Zink Zn	390	mg/kg Ts	± 15 %	ICP-AES	LE

Se bilagor för dioxiner, dioxinliknande PCB, klorbensener, klorparafiner, PAH, PFC, Nonyl och Oktylfenol.

Bo Olsson 010-490 81 54

Rapportansvarig

Denna rapport är en osignerad rapportkopia

Journalnr	A007116-11	Sida 2 (2)
Kundnr	8429501-1851518	
Provtyp	Sediment	

Analysnamn	Resultat	Enhet	Mäto.	Ref/instr.	Ort
* Butylbensylftalat	<0.11	mg/kg Ts			LE
* Di-(2-etylhexyl)ftalat	<1.1	mg/kg Ts			LE
* Di-n-oktylftalat	<0.11	mg/kg Ts			LE
* Di-iso-decylftalat	<1.1	mg/kg Ts			LE
* Di-iso-nonylftalat	<1.1	mg/kg Ts			LE
Arsenik As	13	mg/kg Ts	± 30 %	ICP-AES	LE
* Barium, Ba	150	mg/kg Ts	± 20 % B	ICP-AES	LE
Kadmium Cd	2.3	mg/kg Ts	± 15 %	ICP-AES	LE
Kobolt Co	11	mg/kg Ts	± 20 %	ICP-AES	LE
Krom Cr	45	mg/kg Ts	± 15 %	ICP-AES	LE
Koppar Cu	93	mg/kg Ts	± 15 %	ICP-AES	LE
Kvicksilver Hg	0.42	mg/kg Ts	± 25 %	AFS (kallförångning)	LE
Nickel Ni	25	mg/kg Ts	± 15 %	ICP-AES	LE
Bly Pb	120	mg/kg Ts	± 15 %	ICP-AES	LE
Vanadin V	44	mg/kg Ts	± 15 %	ICP-AES	LE
Zink Zn	340	mg/kg Ts	± 15 %	ICP-AES	LE

Se bilagor för dioxiner, dioxinliknande PCB, klorbensener, klorparafiner, PAH, PFC, Nonyl och Oktylfenol.

Ersätter tidigare utskickat protokoll med samma journalnummer. TOC var ej med på första certifikatet..

Bo Olsson 010-490 81 54

Rapportansvarig

Denna rapport är en osignerad rapportkopia

Analysrapport

Journalnr	A007117-11	Sida 2 (2)
Kundnr	8429501-1851518	
Provtyp	Sediment	

Analysnamn	Resultat	Enhet	Mäto.	Ref/instr.	Ort
* Di-(2-etylhexyl)ftalat	4.1	mg/kg Ts			LE
* Di-n-oktylftalat	<0.17	mg/kg Ts			LE
* Di-iso-decylftalat	<1.7	mg/kg Ts			LE
* Di-iso-nonylftalat	<1.7	mg/kg Ts			LE
Arsenik As	16	mg/kg Ts	± 30 %	ICP-AES	LE
* Barium, Ba	300	mg/kg Ts	± 20 % B	ICP-AES	LE
Kadmium Cd	2.7	mg/kg Ts	± 15 %	ICP-AES	LE
Kobolt Co	15	mg/kg Ts	± 20 %	ICP-AES	LE
Krom Cr	38	mg/kg Ts	± 15 %	ICP-AES	LE
Koppar Cu	93	mg/kg Ts	± 15 %	ICP-AES	LE
Kvicksilver Hg	0.62	mg/kg Ts	± 25 %	AFS (kallförångning)	LE
Nickel Ni	29	mg/kg Ts	± 15 %	ICP-AES	LE
Bly Pb	160	mg/kg Ts	± 15 %	ICP-AES	LE
Vanadin V	65	mg/kg Ts	± 15 %	ICP-AES	LE
Zink Zn	450	mg/kg Ts	± 15 %	ICP-AES	LE

Se bilagor för dioxiner, dioxinliknande PCB, klorbensener, klorparafiner, PAH, PFC, Nonyl och Oktylfenol

Bo Olsson 010-490 81 54

Rapportansvarig

Denna rapport är en osignerad rapportkopia

Analysrapport

Länsstyrelsen i Västra Götalands län
Ann-Sofie Wernersson
Ekelundsg 1
403 40 Göteborg

Rapport utfärdad av
ackrediterat laboratorium

Report issued by
Accredited Laboratory



Journalnr	A007117-11	Sida 1 (2)	
Kundnr	8429501-1851518		
Provtyp	Sediment		
Provtagare/referens	Cecilia Niklasson	Provtagningsdatum	2011-06-15
		Provet ankom	2011-06-17
		Analysrapport klar	2011-07-20
Provets märkning	LX3 YT		

Analysnamn	Resultat	Enhet	Mäto.	Ref/instr.	Ort
Torrsubstans	5.8	%	± 5;10%10	SS-EN 12880	LE
2-klorfenol	<0.0050	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
3-klorfenol	<0.00031	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
4-klorfenol	<0.00031	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,6-diklorfenol	<0.00031	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,4+2,5-diklorfenol	<0.005	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
3,5-diklorfenol	<0.00031	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,3-diklorfenol	<0.00031	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
3,4-diklorfenol	<0.00031	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,4,6-triklorfenol	<0.00031	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,3,6-triklorfenol	<0.00031	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,3,5-triklorfenol	<0.00031	mg/kg Ts	± 30 %	LidMiljö.0A.01.20	LE
2,4,5-triklorfenol	<0.00031	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,3,4-triklorfenol	<0.00031	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
3,4,5-triklorfenol	<0.00031	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,3,5,6-tetraklorfenol	<0.00031	mg/kg Ts	± 30 %	LidMiljö.0A.01.20	LE
2,3,4,6-tetraklorfenol	<0.00031	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,3,4,5-tetraklorfenol	<0.00031	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
Pentaklorfenol	<0.00031	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
* TOC beräknat	14.2	% Ts		SNV 4889	LE
Glödförlust	24.9	% Ts	± 10 %10	SS-EN 12879	LE
Monobutyltenn, MBT	9.0	µg/kg TS			Galab
Dibutyltenn, DBT	2.4	µg/kg TS			Galab
Tributyltenn, TBT	2.3	µg/kg TS			Galab
Tetrabutyltenn	<1.0	µg/kg TS			Galab
Monooktyltenn	<1.0	µg/kg TS			Galab
Dioktyltenn	<1.0	µg/kg TS			Galab
Tricyklohexyltenn	<1.0	µg/kg TS			Galab
Monofenyltenn, MPT	<1.0	µg/kg TS			Galab
Difenyltenn; DPT	<1.0	µg/kg TS			Galab
Trifenyltenn, TPT	<1.0	µg/kg TS			Galab
* Dimetylftalat	<0.17	mg/kg Ts			LE
* Dietylftalat	<0.17	mg/kg Ts			LE
* Di-n-butylftalat	<0.17	mg/kg Ts			LE
* Butylbensylftalat	<0.17	mg/kg Ts			LE

Kopia till:
//mailsvar//

Metallerna är syrauppslutna enligt SS028150-2.
Förklaring till förkortningar och *, se omstående sida.

Analysrapport

Länsstyrelsen i Västra Götalands län
Ann-Sofie Wernersson
Ekelundsg 1
403 40 Göteborg

Rapport utfärdad av
akkrediterat laboratorium

Report issued by
Accredited Laboratory



Journalnr	A007116-11	Sida 1 (2)	
Kundnr	8429501-1851518		
Provtyp	Sediment		
Provtagare/referens	Cecilia Niklasson	Provtagningsdatum	2011-06-15
		Provet ankom	2011-06-17
		Analysrapport klar	2011-07-20
Provets märkning	LX4 YT		

Analysnamn	Resultat	Enhet	Mäto.	Ref/instr.	Ort
Torrsubstans	9.0	%	± 5;10%10	SS-EN 12880	LE
2-klorfenol	<0.0050	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
3-klorfenol	<0.00048	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
4-klorfenol	<0.00048	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,6-diklorfenol	<0.00048	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,4+2,5-diklorfenol	<0.005	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
3,5-diklorfenol	<0.00048	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,3-diklorfenol	<0.00048	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
3,4-diklorfenol	<0.00048	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,4,6-triklorfenol	<0.00048	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,3,6-triklorfenol	<0.00048	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,3,5-triklorfenol	<0.00048	mg/kg Ts	± 30 %	LidMiljö.0A.01.20	LE
2,4,5-triklorfenol	<0.00048	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
2,3,4-triklorfenol	<0.00048	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
3,4,5-triklorfenol	<0.00048	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,3,5,6-tetraklorfenol	<0.00048	mg/kg Ts	± 30 %	LidMiljö.0A.01.20	LE
2,3,4,6-tetraklorfenol.	<0.00048	mg/kg Ts	± 25 %	LidMiljö.0A.01.20	LE
2,3,4,5-tetraklorfenol	<0.00048	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
Pentaklorfenol	<0.00048	mg/kg Ts	± 20 %	LidMiljö.0A.01.20	LE
Torrsubstans	9.0	%	± 10 %	SS-EN 12880	LE
* TOC beräknat	14.1	% Ts		SNV 4889	LE
Glödförlust	24.7	% Ts	± 10 %10	SS-EN 12879	LE
Monobutyltenn, MBT	18	µg/kg TS			Galab
Dibutyltenn, DBT	6.6	µg/kg TS			Galab
Tributyltenn, TBT	5.7	µg/kg TS			Galab
Tetrabutyltenn	<1.0	µg/kg TS			Galab
Monooktyltenn	<1.0	µg/kg TS			Galab
Dioktyltenn	<1.0	µg/kg TS			Galab
Tricyklohexyltenn	<1.0	µg/kg TS			Galab
Monofenyltenn, MPT	<1.0	µg/kg TS			Galab
Difenyltenn; DPT	<1.0	µg/kg TS			Galab
Trifenyltenn, TPT	<1.0	µg/kg TS			Galab
* Dimetylftalat	<0.11	mg/kg Ts			LE
* Dietylftalat	<0.11	mg/kg Ts			LE
* Di-n-butylftalat	0.12	mg/kg Ts			LE

Kopia till:
//mailsvar//

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sender: SOFIA GmbH, im IGZ Adlershof,
Rudower Chaussee 29, 12489 Berlin

Eurofins Environment Sweden AB

Box 737

53117 Lidköping (Schweden)

Untersuchung von:

Lebensmitteln
Bedarfsgegenständen
Wasser
Boden
sonstigen Materialien
auf Rückstände
organischer Schadstoffe durch
staatl. gepr. Lebensmittelchemiker
(priv. Sachverständige im Land Berlin)

your sign

responsible

date

Irmtraud Hoppe

04.07.2011

test report 1186 - 51 / 11

client: see address

sample: **sediment**

sample id (client):

A7119-11

(Mat.-Id.: 70)

date of receipt: 22.06.2011

start/end of analysis: 22.06.2011 / 04.07.2011

sample taken by: client

order: Analysis of Nonyl phenol und Ethoxylate

method: a) Alkylphenole in soil, low LOQ, GC-MS after steam distillation (SF060)

ext. measurement uncert.: ± 25% labinternal variance

Irmtraud Hoppe
staatl. gepr. Lebensmittelchemikerin
Analytical Services Environment

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SOFIA GmbH
Chemisches Labor für Softwareentwicklung und Intelligente Analytik

Rudower Chaussee 29 (im IGZ-Adlershof), 12489 Berlin

Telefon 030/67798560 Bankverbindung Geschäftsführer

Telefax 030/67798588 Nord/LB Dr. Achim Bockhorn / Dr. Jürgen Lipinski

030/63926010 BLZ 25050000 Gerichtsstand

E-Mail sofia@sofia-gmbh.de Kto 199918863 Berlin Charlottenburg (HRB 45977)

results

kind of sample	sediment	amount	LOQ	unit
sample id (client):	A7119-11			
<hr/>				
SF060				
	NONYLPHENOL	<LOQ	0,02	mg/kg
	Nonylphenoldiethoxylate	<LOQ	0,02	mg/kg
	Nonylphenolmonoethoxylate	<LOQ	0,02	mg/kg
	P-TERT-OCTYLPHENOL	<LOQ	0,01	mg/kg

LOQ: limit of quantification of the method n.d.: below the limit of quantification of the method n.a.=not analyzed
Analysed was the compound spectrum with the limits of determination of the known list.

Irmtraud Hoppe

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Rudower Chaussee 29 (im IGZ-Adlershof), 12489 Berlin

Telefon: 030/67798560

Bankverbindung:

Geschäftsführer:

Telefax: 030/67798588

Nord/LB

Dr. Achim Bockhorn / Dr. Jürgen Lipinski

030/63926010


BLZ 25050000

Gerichtsstand

E-Mail: sofia@sofia-gmbh.de

Kto 199918863

Berlin Charlottenburg (HRB 45977)

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Verzeichnis: www.aks-hannover.de
Staatliche Akkreditierungsstelle Hannover

sender: SOFIA GmbH, im IGZ Adlershof,
Rudower Chaussee 29, 12489 Berlin

Eurofins Environment Sweden AB

Box 737

53117 Lidköping (Schweden)

Untersuchung von:

Lebensmitteln
Bedarfsgegenständen
Wasser
Boden
sonstigen Materialien
auf Rückstände
organischer Schadstoffe durch
staatl. gepr. Lebensmittelchemiker
(priv. Sachverständige im Land Berlin)

your sign

responsible

date

Irmtraud Hoppe

04.07.2011

test report 1186 - 50 / 11

client: see address

sample: **sediment**

sample id (client):

A7118-11

(Mat.-Id.: 70)

date of receipt: 22.06.2011

start/end of analysis: 22.06.2011 / 04.07.2011

sample taken by: client

order: Analysis of Nonyl phenol und Ethoxylate

method: a) Alkylphenole in soil, low LOQ, GC-MS after steam distillation (SF060)

ext. measurement uncert.: ± 25% labinternal variance

Irmtraud Hoppe
staatl. gepr. Lebensmittelchemikerin
Analytical Services Environment

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Chemisches Labor für Softwareentwicklung und Intelligente Analytik

Rudower Chaussee 29 (im IGZ-Adlershof), 12489 Berlin

Telefon 030/67798560 Bankverbindung Geschäftsführer

Telefax 030/67798588 Nord/LB Dr. Achim Bockhorn / Dr. Jürgen Lipinski

030/63926010 BLZ 25050000 Gerichtsstand

E-Mail sofia@sofia-gmbh.de Kto 199918863 Berlin Charlottenburg (HRB 45977)

results

kind of sample	sediment	amount	LOQ	unit
sample id (client):	A7118-11			
<hr/>				
SF060				
	NONYLPHENOL	0,021	0,02	mg/kg
	Nonylphenoldiethoxylate	<LOQ	0,02	mg/kg
	Nonylphenolmonoethoxylate	0,02	0,02	mg/kg
	P-TERT-OCTYLPHENOL	<LOQ	0,01	mg/kg

LOQ: limit of quantification of the method n.d.: below the limit of quantification of the method n.a.=not analyzed
Analysed was the compound spectrum with the limits of determination of the known list.

Irmtraud Hoppe

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Telefon: 030/67798560

Bankverbindung:

Geschäftsführer:

Telefax: 030/67798588

Nord/LB

Dr. Achim Bockhorn / Dr. Jürgen Lipinski

030/63926010

BLZ 25050000

Gerichtsstand

E-Mail: sofia@sofia-gmbh.de

Kto 199918863

Berlin Charlottenburg (HRB 45977)

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Eurofins Environment Sweden AB

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53117 Lidköping (Schweden)

Untersuchung von:

Lebensmitteln
Bedarfsgegenständen
Wasser
Boden
sonstigen Materialien
auf Rückstände
organischer Schadstoffe durch
staatl. gepr. Lebensmittelchemiker
(priv. Sachverständige im Land Berlin)

your sign

responsible

date

Irmtraud Hoppe

04.07.2011

test report 1186 - 49 / 11

client: see address

sample: **sediment**

sample id (client):

A7117-11

(Mat.-Id.: 70)

date of receipt: 22.06.2011

start/end of analysis: 22.06.2011 / 04.07.2011

sample taken by: client

order: Analysis of Nonyl phenol und Ethoxylate

method: a) Alkylphenole in soil, low LOQ, GC-MS after steam distillation (SF060)

ext. measurement uncert.: ± 25% labinternal variance

Irmtraud Hoppe
staatl. gepr. Lebensmittelchemikerin
Analytical Services Environment

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Rudower Chaussee 29 (im IGZ-Adlershof), 12489 Berlin

Telefon 030/67798560 Bankverbindung Geschäftsführer

Telefax 030/67798588 Nord/LB Dr. Achim Bockhorn / Dr. Jürgen Lipinski

030/63926010 BLZ 25050000 Gerichtsstand

E-Mail sofia@sofia-gmbh.de Kto 199918863 Berlin Charlottenburg (HRB 45977)

results

kind of sample	sediment	amount	LOQ	unit
sample id (client):	A7117-11			
<hr/>				
SF060				
	NONYLPHENOL	<LOQ	0,02	mg/kg
	Nonylphenoldiethoxylate	<LOQ	0,02	mg/kg
	Nonylphenolmonoethoxylate	0,023	0,02	mg/kg
	P-TERT-OCTYLPHENOL	<LOQ	0,01	mg/kg

LOQ: limit of quantification of the method n.d.: below the limit of quantification of the method n.a.=not analyzed
Analysed was the compound spectrum with the limits of determination of the known list.

Irmtraud Hoppe

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Telefon: 030/67798560

Bankverbindung:

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Telefax: 030/67798588

Nord/LB

Dr. Achim Bockhorn / Dr. Jürgen Lipinski

030/63926010


BLZ 25050000

Gerichtsstand

E-Mail: sofia@sofia-gmbh.de

Kto 199918863

Berlin Charlottenburg (HRB 45977)

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Untersuchung von:

Lebensmitteln
Bedarfsgegenständen
Wasser
Boden
sonstigen Materialien
auf Rückstände
organischer Schadstoffe durch
staatl. gepr. Lebensmittelchemiker
(priv. Sachverständige im Land Berlin)

your sign

responsible

date

Irmtraud Hoppe

04.07.2011

test report 1186 - 48 / 11

client: see address

sample: **sediment**

sample id (client):

A7116-11

(Mat.-Id.: 70)

date of receipt: 22.06.2011

start/end of analysis: 22.06.2011 / 04.07.2011

sample taken by: client

order: Analysis of Nonyl phenol und Ethoxylate

method: a) Alkylphenole in soil, low LOQ, GC-MS after steam distillation (SF060)

ext. measurement uncert.: ± 25% labinternal variance

Irmtraud Hoppe
staatl. gepr. Lebensmittelchemikerin
Analytical Services Environment

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Rudower Chaussee 29 (im IGZ-Adlershof), 12489 Berlin

Telefon 030/67798560 Bankverbindung Geschäftsführer

Telefax 030/67798588 Nord/LB Dr. Achim Bockhorn / Dr. Jürgen Lipinski

030/63926010 BLZ 25050000 Gerichtsstand

E-Mail sofia@sofia-gmbh.de Kto 199918863 Berlin Charlottenburg (HRB 45977)

results

kind of sample	sediment	amount	LOQ	unit
sample id (client):	A7116-11			
<hr/>				
SF060				
	NONYLPHENOL	<LOQ	0,02	mg/kg
	Nonylphenoldiethoxylate	<LOQ	0,02	mg/kg
	Nonylphenolmonoethoxylate	0,116	0,02	mg/kg
	P-TERT-OCTYLPHENOL	<LOQ	0,01	mg/kg

LOQ: limit of quantification of the method n.d.: below the limit of quantification of the method n.a.=not analyzed
Analysed was the compound spectrum with the limits of determination of the known list.

Irmtraud Hoppe

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Rudower Chaussee 29 (im IGZ-Adlershof), 12489 Berlin

Telefon: 030/67798560

Bankverbindung:

Geschäftsführer:

Telefax: 030/67798588

Nord/LB

Dr. Achim Bockhorn / Dr. Jürgen Lipinski

030/63926010

BLZ 25050000

Gerichtsstand

E-Mail: sofia@sofia-gmbh.de

Kto 199918863

Berlin Charlottenburg (HRB 45977)

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Boden
sonstigen Materialien
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organischer Schadstoffe durch
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(priv. Sachverständige im Land Berlin)

your sign

responsible

date

Irmtraud Hoppe

04.07.2011

test report 1186 - 47 / 11

client: see address

sample: **sediment**

sample id (client):

A7115-11

(Mat.-Id.: 70)

date of receipt: 22.06.2011

start/end of analysis: 22.06.2011 / 04.07.2011

sample taken by: client

order: Analysis of Nonyl phenol und Ethoxylate

method: a) Alkylphenole in soil, low LOQ, GC-MS after steam distillation (SF060)

ext. measurement uncert.: ± 25% labinternal variance

Irmtraud Hoppe
staatl. gepr. Lebensmittelchemikerin
Analytical Services Environment

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Rudower Chaussee 29 (im IGZ-Adlershof), 12489 Berlin

Telefon 030/67798560 Bankverbindung Geschäftsführer

Telefax 030/67798588 Nord/LB Dr. Achim Bockhorn / Dr. Jürgen Lipinski

030/63926010 BLZ 25050000 Gerichtsstand

E-Mail sofia@sofia-gmbh.de Kto 199918863 Berlin Charlottenburg (HRB 45977)

results

kind of sample	sediment	amount	LOQ	unit
sample id (client):	A7115-11			
SF060				
	NONYLPHENOL	0,023	0,02	mg/kg
	Nonylphenoldiethoxylate	<LOQ	0,02	mg/kg
	Nonylphenolmonoethoxylate	0,082	0,02	mg/kg
	P-TERT-OCTYLPHENOL	<LOQ	0,01	mg/kg

LOQ: limit of quantification of the method n.d.: below the limit of quantification of the method n.a.=not analyzed
Analysed was the compound spectrum with the limits of determination of the known list.

Irmtraud Hoppe

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Rudower Chaussee 29 (im IGZ-Adlershof), 12489 Berlin

Telefon: 030/67798560

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Telefax: 030/67798588

Nord/LB

Dr. Achim Bockhorn / Dr. Jürgen Lipinski

030/63926010

BLZ 25050000

Gerichtsstand

E-Mail: sofia@sofia-gmbh.de

Kto 199918863

Berlin Charlottenburg (HRB 45977)

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