Dioxins and PCB Analysis of Chicken Eggs and Cows Milk from Designated Norwegian Regional Areas (2014-2017)

Report to Norwegian Food Safety Authority

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Quality statement: All results created by fera were quality checked and approved prior to release to NFSA. Information relating to the origin of the samples (place and date of collection) is as provided by sampling staff and has not undergone verification checks by Fera.

Contents

Glossary of Main Terms

Term or Acronym	General Meaning Of Term
EU	European Union
EC	European Commission
NFSA	Norwegian Food Safety Authority
WHO	World Health Organisation
PCB	Polychlorinated biphenyl
Ortho-PCB	Ortho-substituted PCB (non planar)
Non-ortho-PCB	Non-ortho-substituted PCB (co-planar)
DL-PCB	Dioxin-Like PCB (Toxicity Similar to that of Dioxins)
PCDD/F	Polychlorinated dibenzo-*p*-dioxin/ polychlorinated dibenzofuran (dioxins)
TEF	Toxic Equivalency Factor – toxicity expressed for each dioxin-like compound as a fraction of 2,3,7,8-TCDD (2,3,7,8-TCDD = 1).
TEQ	Toxic Equivalence – product of the congener concentration and the TEF
Total TEQ	Total of the Sum of all the Toxic Equivalences (TEQs) for each group of compounds
fat weight	Values relevant to the assessed fat content of the sample
whole weight	Values based on the sample as received 'whole' or wet (not calculated here but can be reverse calculated based on the provided fat content % values)
WHO-TEQ 2005	World Health Organisation - TEQ based on values as set in 2005
LOD	Limit of Detection
LOQ	Limit of Quantification
Lower bound	assumes values at less than the limit of detection are zero (e.g.<0.01=0)
Upper bound	assumes values at less than the limit of detection are equal to the limit of detection (e.g. <0.07=0.07)
ng/kg	Nanogram per kilogram ($x10^{-9}$/ part per trillion)
µg/kg	Microgram per kilogram ($x\ 10^{-6}$/ part per billion)
HRGC-HRMS	High resolution gas chromatography - high resolution mass spectrometry
HRGC-LRMS	High resolution gas chromatography – unit resolution mass spectrometry
LIMS	Laboratory Information Management System

Executive Summary

This study on Dioxins and PCBs in milk and eggs from various production areas, fulfils part of the requirements of EU member states [(EC) No. 854/2004 [1] and EU Regulations (EC) No.1881/2006 [2]] to adopt appropriate monitoring measures and carry out compliance checks on animal products produced for human consumption. Both hens and cows will bio-accumulate environmental contaminants because of their inability to metabolise these during feeding. However, animals that have the ability to excrete or remove fat are able to reduce their body burden and limit their exposure, such as is the case with egg laying birds and lactating mammals. The study determines concentrations of regulated environmental contaminants in the fat derived from eggs and milk, with a view to monitoring levels of occurrence.

The study analysed 152 composite hen (chicken) egg samples from traditional production for polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/Fs, dioxins) analysed between April 2014 to October 2017, and 55 cow's milk samples analysed between August 2014 and December 2017. Samples were listed as having been sampled from 28 sampling points or areas from mainland Norway covering most of the mainland except the 2 most northern counties (Finnmark and Troms).

Some level of contaminant was found in all samples analysed. This is in agreement with other studies which show that residues of persistent organic pollutants or contaminants such as Dioxins and PCBs are ubiquitous in the environment.

Reported values of both PCDD/Fs and PCBs contaminant concentrations were all below the EU regulatory maximum levels (Regulation (EC) No. 1881/2006 as amended).

The samples analysed showed a variable range of % contribution to the TEQ sum values, showing a range of contamination from both PCBs and Dioxins.

It should be noted that there was a variation in the LOD values quoted for the analysis of PCDDs and PCDFs (Dioxins and Furans) in both eggs and milk, over the period. Generally, the LOD values quoted were lower for the later analyses, resulting in residues being reported in these samples at levels lower than some of the LODs from 2014-2016. The higher LODs may also have contributed to an overestimation of the upper bound TEQ values.

The numbers of samples tested from each area varied significantly. There can be no clear conclusion as to any regional variation trends over the collection period. Based on the limited data available,

there is no significant difference in the residue levels found in samples originating from the areas of collection.

The methodologies used for the analyses at Fera were UKAS accredited to the ISO 17025 standard and follow EU commission regulations for data quality criteria.

1. Background

Animal such as hens and cows as they forage and feed also consume earth and dirt from the ground they feed on, and so the levels of chemical and environmental pollutants they consume can be highly influenced from not only what they eat, but where they eat it depending it's location to industrial areas, floodplains wasteland etc. Such feeding can lead to the bio-accumulation of pollutants of biogenic and anthropogenic origin such as polychlorinated dibenzo-p-dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs) and Polychlorinated Biphenyls (PCBs) from amongst a vast range of possible contaminants.

The bio-accumulation potential of animal species used for food is particularly relevant in the case of persistent and stable environmental contaminants with long half-lives such as chlorinated PCDD/Fs and PCBs, and more so for animal species which are allowed to freely forage such as free-range chickens or outdoor roaming cattle.

PCDD/Fs and PCBs are recognised environmental and food contaminants that are known to bio-accumulate in most animals. The extent of this accumulation is evident by the levels of these contaminants detected in various studies.

These contaminants have been the subject of a number of studies. The European Food Safety Authority (EFSA) carried out a study between 1999 and 2008 [15] analysing 11,214 food and feed samples from 18 EU member states, Iceland and Norway for presence of PCBs, and raw milk and eggs were amongst the food groups where contamination was found. EFSA carried out a further study on Dioxins and PCBs in food and feed available on the European market between 1995 and 2010 [16] on 13,797 samples. Presence of Dioxins and DL-PCBs were found in almost all samples and dairy products were amongst the highest dietary contributing food groups.

In recognising the requirements of food safety, the EU has, for a number of years, defined limits for the control of these contaminants in a range of foods including Eggs and Milk fat. (Commission Regulation (EC) No 1881/2006, as amended). EU member states are required to adopt appropriate monitoring measures and carry out compliance checks with regard to the occurrence of these contaminants in products produced for human consumption, as are those non-EU member states who intend to trade or do trade such products within the EU, or if they wish to adopt the same levels of food monitoring and accepted standards.

This study on Eggs and Milk is specified for dioxins, furans and dioxin-like PCBs, which is covered in part by Commission Regulation (EU) No 1881/2006 for certain foodstuffs but does not include

regulated non-dioxin-like PCBs. (Not measured: Non Dioxin-like PCBs - IUPAC numbers **28**, **52**, **101, 138**, **153** and **180**)

Fera has generated contaminant data on samples received since May 2016 with analysis carried out at its laboratories in York. This report collates the results of the individual analyses for Dioxins, Furans and Dioxin-like PCBs for the whole study period from April 2014 to December 2017 with earlier analysis results reported by LGC and analysis carried out at Marchwood Scientific Services. Samples were analysed for the contaminants described in the method below.

2. Method

2.1 Sample Collection and Preparation

152 samples of hen eggs were received for testing for dioxins and D-L PCBs, which included 95 eggs analysed between 2014 and 2016 by MSS (Marchwood Scientific Services) and 57 analysed by Fera from 2016 to 2017. 55 samples of cow's milk were received for testing for dioxins and D-L PCBs, of which 29 milks were anlysyed by MSS between 2014 and 2016 and a further 26 milks received between 2016 and 2017 analysed at Fera.

An overview of the sampling locations is given in Table 1. The geographical sampling locations are shown in Fig 1 & 2. Details on the sampling locations and sample identifications are given in Appendix 1 & 2.

On receipt at the laboratory each sample was given a unique laboratory reference number and the sample details were logged into a LIMS database. The samples were stored frozen prior to analysis. Sample preparation consisted of shelling for the eggs, followed by homogenisation and aliquots taken prior to freeze-drying. Freeze-dried sample powders were re-homogenised and aliquots used for dioxin and PCB analysis. A subsample of each freeze-dried sample was analysed for its fat content (subcontracted) and his fat value used in final calculations.

2.2 Contaminants measured – Specific Analytes

The following analytes were determined: Regulated contaminants are highlighted in **bold.**

Dioxins - all 17, 2378-Cl substituted PCDDs and PCDFs.

Dioxin-like PCBs - IUPAC no. 77, 81, 105, 114, 118, 123, 126, 156, 157, 167, 169 and 189.

2.3 PCDD/F and PCB - Analytical Methodology

(FERA (UK NRL) SOPs FSG 401-414)

The method used for the preparation, extraction and analysis of samples has been reported previously (Fernandes et al 2004) and is part of the CEN EN16215:2012 standard. In brief, samples were fortified with ^{13}C-labelled analogues of target compounds and exhaustively extracted using mixed organic solvents. Ortho substituted PCBs were separated from non-ortho substituted PCBs and PCDD/Fs by fractionation on activated carbon. The two fractions were further purified using adsorption chromatography on alumina. Analytical measurement was carried out using high resolution gas chromatography-high resolution mass spectrometry (HRGC-HRMS) for the

seventeen, 2,3,7,8-Cl substituted PCDD/F congeners and non-ortho substituted PCBs. HRGC-unit resolution mass spectrometry (HRGC-LRMS) was used for the measurement of the ortho substituted PCBs.

All analyses were UKAS accredited to ISO 17025 standards, with the inclusion of reference material and method blanks which were evaluated prior to reporting. Further quality assurance measures included the successful participation in international inter-comparison exercises such as POPs in Food-2013-2017 (inclusive) [10-13 &17] which includes dioxins and dioxin-like PCBs. Quality control evaluation for the accompanying data follows the criteria specified for chlorinated dioxins and PCBs (Commission Regulation (EU) No 589/2014). In addition, as NRL for chemical contaminants, FERA participates in PT exercises and other inter-laboratory exercises as organised by the EU-RL, and achieves consistently good results.

3. Results

Analyte concentrations found are presented in Appendix 1 for milk samples and Appendix 2 for egg samples. Concentration units reflect current convention as required by regulation, and data were rounded to two decimal places or as appropriate. The reporting limits (quoted as "<") for dioxins and PCBs are estimated as a dynamic parameter and therefore represent the limits of determination that prevail during the course of the measurement. For PCDD/Fs, PCBs the reporting limits are consistent with the requirements of EU regulations. Data on the reference materials that were analysed concurrently with the samples, were within established acceptable limits, and where analysed at Fera was supplied with the sample analytical data. Measurement uncertainty (MU) was calculated and applied to data following guidelines and principals set out in Measurement Uncertainty for Persistent Organic Pollutants by Isotope-Dilution Mass Spectrometry (Epp, et al 2014).

In addition to the concentration of individual congeners, the dioxin-like toxicity of the samples arising from PCDD/Fs and dioxin-like PCBs has also been reported as a toxic equivalent (WHO-TEQ), which is calculated by multiplying the concentration of each congener of interest by its toxicity equivalency factor (WHO-TEF). The TEQs are presented in terms of the 2005 TEFs (van den Berg et al 2006).

The regulations for chicken eggs and cow's milk are based on fat weight concentrations; for PCDD/Fs and PCBs and all results have been expressed on a fat weight basis.

PCDD/Fs and PCBs were detected in all samples at levels which did not exceed regulatory limits.

The combined PCDD/F + PCB TEQ (fat; upper bound) for eggs ranged from 0.025 TEQ/g to 2.50 TEQ/g. The lower bound TEQ Sum range from 0.0013 TEQ/g to 1.03 TEQ/g.

Milk samples TEQ sum range for upper bound values from 0.082 TEQ/g to 1.368 TEQ/g and lower bound values from 0.013 TEQ/g to 1.101 TEQ/g. (NB: See glossary for upperbound and lower bound explanations)

PCDD/Fs are more toxic at lower concentrations than their PCB equivalents and have a more significant contribution to the TEQ SUM. The samples analysed showed a variable range of % contribution to the TEQ sum values, showing a range of contamination from both PCBs and Dioxins.

The highest positively identified individual levels of the most toxic Dioxins and Furans (2,3,7,8-TCDD) observed in the egg samples was a value of 0.13 ng/kg in sample 102068 from Agder 10/04/2017, and for milk with a value of 0.04 ng/kg in sample 91108, 23/09/2016 from Nordfjord.

The highest individual value for any dioxin was a value of 7.1 ng/kg for OCDD found in Egg 100247, 20/05/2015 from Trondheim og Omland. OCDD, is more commonly found but has much lower toxicity than the most toxic 2,3,78 TCDD, with a TEF value of just 0.0003, and so it's contribution to the TEQ sum in this case of 0.002 has low significance.

The highest non-ortho Dioxin like PCB (DL-PCB), found in milk was a value of 13.88 ng/kg for PCB 77 in sample 97009, 19/12/2014 from Nord-Osterdal. The highest Non-ortho DL-PCB from Eggs found at 50.25 ng/kg for PCB 77 in sample 113150, 09/12/2014 from Ostfold of Follo. PCB 77 has a TEF value of 0.0001, resulting in a minimal TEQ contribution of ~0.005.

The highest individual mono-ortho DL-PCB was PCB 118 with a value of 3375.5 ng/kg (3.376 µg/kg) (TEF of 0.00003, giving TEQ of ~0.101), also in milk 97009 from Nord-Osterdal 19/12/2014. The highest value found in an egg was PCB 118 at 1084.5 ng/kg (TEF of 0.00003, giving TEQ of ~0.033) in sample100237 07/04/2015 from Indre Ostfold og Follo.

The areas of sampling and numbers of samples tested from each area varied significantly such that there can be no clear conclusion to determine regional variation trends over the collection period. Based on the limited data available, there is no significant difference in the residue levels found in samples originating from the areas of collection.

There was one egg sample (114216 from 2014 data set) with Upper bound WHO-PCDD/F-TEQ (TEQ for Dioxins), and Sum of WHO-PCDD/F-PCB-TEQ (Sum of TEQ for Dioxins and Dioxin Like PCBs) that was close to the limit of 2.5pg/g fat (2.5ng/kg). This upper bound value is higher than the action limits of 1.75 pg/g fat dioxins & furans WHO-TEQ as set down in EU commission reccomendation 2013/711 [7]. However, the high LOD/LOQ values for the sample could have contributed to an over-estimation of the calculated Upper bound value. This is because the Upper bound TEQ calculation assumes that values at the LOD are real and are included in the TEQ SUM.

The areas of sampling and numbers of samples tested from each area varied significantly such that there can be no clear conclusion to determine regional variation trends over the collection period. Based on the limited data available, there is no significant difference in the residue levels found in samples originating from the areas of collection.

4. Conclusion

152 samples of hen eggs from traditional production and 55 samples of cow's milk were analysed for dioxins and PCBs between April 2014 and Dec 2017.

Reported values of both PCDD/Fs and PCBs contaminant concentrations were all below the EU regulatory maximum levels (Regulation (EC) No. 1881/2006 as amended).

PCDD/Fs are more toxic at lower concentrations than their PCB equivalents and have a more significant contribution to the TEQ SUM. The samples analysed showed a variable range of % contribution to the TEQ sum values, showing a range of contamination from both PCBs and Dioxins.

There was no correlation between the residue levels found in samples and the area of collection.

5. References

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6. Commission Regulation (EU) 2017/644 of 5 April 2017 laying down methods of sampling and analysis for the control of levels of dioxins, dioxin-like PCBs and non-dioxin-like PCBs in certain foodstuffs and repealing Regulation (EU) No 589/2014 (Text with EEA relevance.)
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Table 1: Overview of Samples

Collection Point Sampling List	Sample Count from Test Point	Sampling Dates/Period Dates	Country Region (as identified as best as possible by Fera and not confirmed by NFSA)
Agder	2 Eggs	10/4/2017-10/5/2017	Southern region of Norway (Vest/Aust)
Bergen og Omland	1 Milk	20/08/2014	West Norway (Area around Bergen in Hordaland)
Drammen	6 (1 Egg, 5 milks)	14/11/2014-09/12/2014	South of Eastern Norway (South of Buskerud)
Hadeland og Ringerike	4	20/08/2014-09/12/2014	South part or Eastern Norway (S of Oppland)
Hardanger og Sunnhordaland	4 Milks	07/09/2016-04/04/2017	East and South Hordaland in Western Norway
Haugalandet	7 Milk	20/12/2014-20/11/2017	Northern area of Rogaland, West Norway
Hedmarken	3 Pig Kidney fat	22/04/2014-19/09/2014	South part of Eastern Norway
Helgeland	4 Milks	22/11/2015-26/09/2017	Area of Northern Norway
Indre Ostfold og Follo	3 Eggs	07/04/2015-21/04/2015	North area of Ostfold, South of Eastern Norway
Midt Rogaland	11 (10 Egg, 1 Milk)	20/08/2014-18/06/2015	Central part of Rogaland (South part of Western Norway)
Midt-og Nord Helgeland	1 Milk	03/02/2015	Central area of North Helgeland (Nordland; North Norway)
Midtre Hålogaland	3 Milk	11/12/2015-27/05/2017	Central Halogland, area of Northern Norway
Mjøsområdet	43 (42 Eggs, 1 milk)	08/07/2015-25/10/2017	Area within Eastern Norway around lake Mjøsa? (could not indentify area)
Nordfjord	6, (1 Egg, 5 Milks)	19/12/2014-28/09/2017	North area of Sogn og Fjordane, Western Norway
Nordmøre og Romsdal	6 Milks	22/04/2016-21/11/2017	Northern part of Western Norway/ borders with Central Norway
Nord-Osterdal	2 Milks	19/12/2014	Northern part of Eastern Norway
Nordre Buskerud, Hadeland og Valdres	3 Milks	11/11/2016	North Buskerud (Eastern Norway), and Areas of Oppland Eastern Norway
Ostfold	1 Egg	20/08/2014	Ostfold (South part of Eastern Norway)
Østfold og Follo	23 Eggs	22/04/2014-02/11/2017	(South part of of Eastern Norway, Østfold/ Akershus)
Romsdal	5 (3 Eggs, 2 Milks)	20/08/2014-30/10/2015	West Norway (Møre og Romsdal)
Salten	1 Milk	20/12/2014	Central Area of Nordland (North Norway)
Sirdal og Flekkfjord	1 Milk	03/09/2014	South Norway (North &West sideof Vest-Agder)

Collection Point Sampling List	Sample Count from Test Point	Sampling Dates/Period Dates	Country Region (as identified as best as possible by Fera and not confirmed by NFSA)
Sor-Helgeland	1 Milk	14/11/2014	South Helgeland (SW edge of Nordland))
Sør-Rogaland, Sirdal og Flekkefjord	11 (10 Eggs, 1 Milk)	16/11/2015-24/04/2017	Area of Vest Agder, South Norway and South Rogaland Western Norway
Telemark	6 Milks	07/11/2017-07/12/2017	County in South West region of East Norway
Trondheim og Omland	32 Eggs	20/05/15-15/08/2017	Area of South Trøndelag (now part of joint county Trøndelag as of 1-Jan 2018)
Trondheim og Orkdal	11 Eggs	09/12/2014-20/05/2015	SW part of Trodelag (Southern part of Central Norway)
Valdres og Gjovikregionen	9 Eggs	20/08/2014-19/12/2014	Central part of Eastern Norway

**Quality statement: Information relating to the origin of the samples (place, date of collection and details) is as received and has not undergone verification checks by Fera..*

Figure 1: District Map of Norway

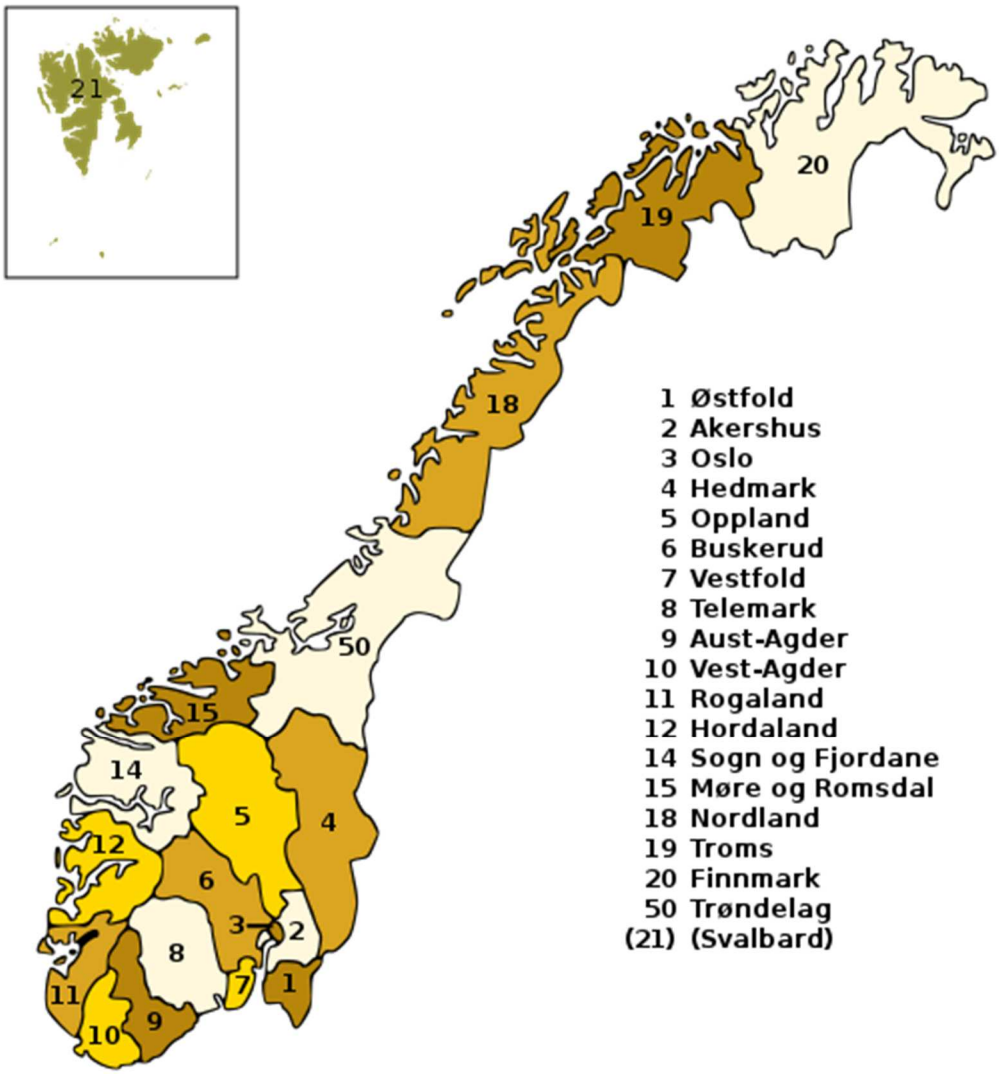
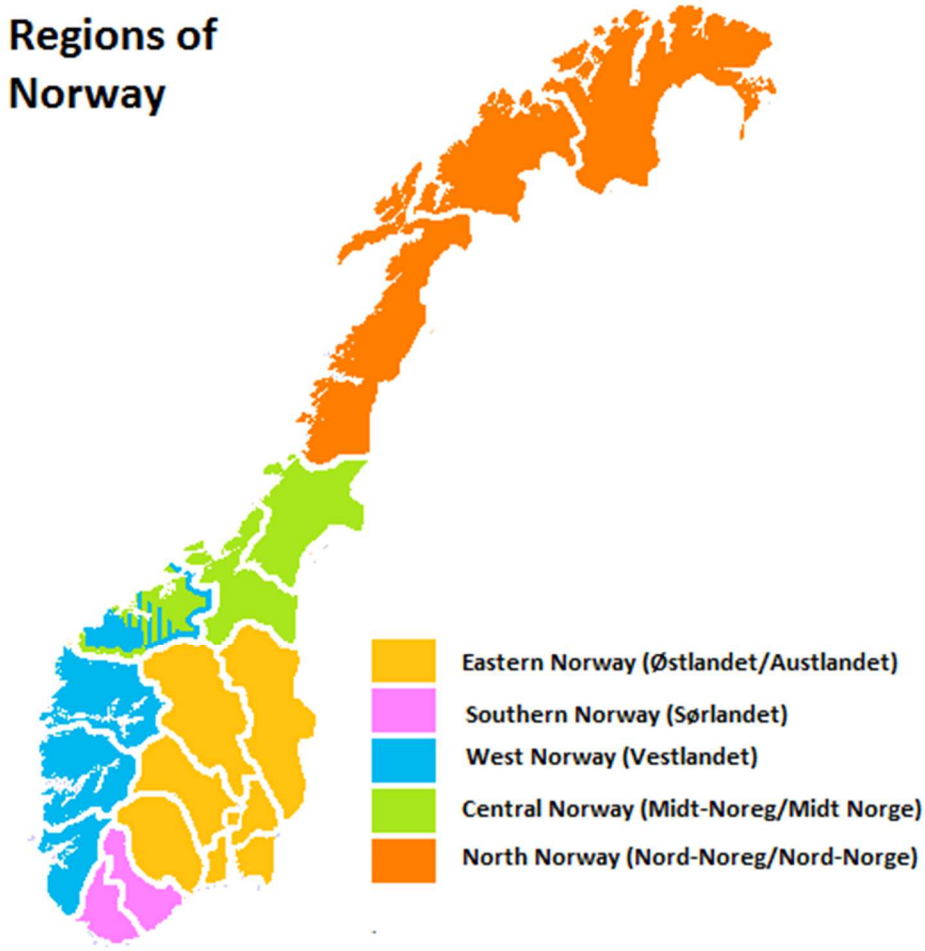


Image from: https://no.wikipedia.org/wiki/Norges_fylker

Figure 2: Regional Map of Norway



Appendix 1 : Analytical data for MILK

Sample Reference		91966	114754	114753	108379	99117	99119	99120	99121
Reporting date		20/08/2014	20/08/2014	20/08/2014	03/09/2014	14/11/2014	14/11/2014	14/11/2014	14/11/2014
Region		Bergen og Omland	Romsdal	Romsdal	Sirdal og Flekkfjord	Drammen	Drammen	Drammen	Drammen
Analyte	Unit								
PCB-105	µg/kg	16.83	7.11	43.26	65.63	16.35	16.78	16.37	5.05
PCB-114	µg/kg	1.87	0.72	4.50	7.39	1.58	2.18	2.48	0.96
PCB-118	µg/kg	72.41	28.58	163.42	352.86	58.96	49.25	58.96	39.49
PCB-123	µg/kg	1.04	0.53	2.61	5.01	1.09	1.01	0.83	0.80
PCB-156	µg/kg	7.29	4.25	14.47	91.85	6.64	7.48	8.34	3.50
PCB-157	µg/kg	1.32	0.72	3.23	11.48	1.07	0.92	0.61	0.80
PCB-167	µg/kg	3.47	1.95	5.99	41.82	3.90	3.28	4.13	1.76
PCB-189	µg/kg	0.51	0.48	0.68	12.46	0.43	0.48	1.04	0.64
PCB-77	ng/kg	1.30	0.96	1.06	15.66	1.00	0.89	0.58	0.75
PCB-81	ng/kg	<0.09	0.08	<0.09	0.64	0.31	0.46	0.31	0.11
PCB-126	ng/kg	0.46	0.24	0.71	3.50	0.31	0.46	0.61	0.13
PCB-169	ng/kg	0.11	0.11	0.16	<0.31	0.09	0.11	0.12	0.16
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.05	0.03	0.05	0.37	0.04	0.05	0.07	0.02
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.05	0.03	0.05	0.38	0.04	0.05	0.07	0.02
2,3,7,8-TCDD	ng/kg	<0.15	<0.08	<0.06	<0.08	<0.05	<0.05	<0.05	<0.1
1,2,3,7,8-PeCDD	ng/kg	<0.34	0.05	<0.09	<0.08	<0.1	<0.1	<0.1	<0.1
1,2,3,4,7,8-HxCDD	ng/kg	<0.15	<0.03	<0.03	<0.08	<0.05	<0.05	<0.05	<0.05
1,2,3,6,7,8-HxCDD	ng/kg	<0.17	<0.03	<0.06	<0.08	0.10	<0.05	<0.05	<0.05
1,2,3,7,8,9-HxCDD	ng/kg	<0.14	<0.03	0.03	<0.08	<0.05	<0.05	<0.05	<0.05
1,2,3,4,6,7,8-HpCDD	ng/kg	0.26	0.11	<0.06	0.50	0.15	0.10	0.15	0.15
OCDD	ng/kg	0.66	0.19	0.37	0.95	<0.1	0.15	0.15	0.30
2,3,7,8-TCDF	ng/kg	<0.12	<0.05	<0.06	<0.08	<0.1	<0.05	<0.05	<0.05
1,2,3,7,8-PeCDF	ng/kg	<0.06	<0.03	<0.03	<0.08	0.15	<0.05	<0.05	0.05
2,3,4,7,8-PeCDF	ng/kg	<0.06	0.03	<0.03	<0.08	0.10	0.10	<0.05	<0.05
1,2,3,4,7,8-HxCDF	ng/kg	0.17	<0.03	<0.03	0.30	<0.05	<0.05	<0.05	<0.05
1,2,3,6,7,8-HxCDF	ng/kg	0.11	<0.03	0.03	0.20	<0.05	<0.05	<0.05	<0.05
1,2,3,7,8,9-HxCDF	ng/kg	<0.11	0.35	0.09	<0.08	0.20	0.10	0.15	0.10
2,3,4,6,7,8-HxCDF	ng/kg	<0.09	<0.03	0.09	<0.08	<0.05	<0.05	<0.05	<0.05
1,2,3,4,6,7,8-HpCDF	ng/kg	0.18	0.03	<0.12	0.35	<0.05	<0.05	<0.05	<0.05
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.25	<0.03	<0.16	<0.08	<0.05	<0.05	<0.1	<0.05
OCDF	ng/kg	0.43	0.11	<0.19	0.85	0.10	0.10	0.10	<0.1
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.03	0.10	0.02	0.06	0.07	0.04	0.02	0.01
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.62	0.20	0.21	0.28	0.25	0.23	0.22	0.26
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.08	0.13	0.07	0.43	0.11	0.09	0.09	0.03
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.67	0.23	0.26	0.66	0.29	0.28	0.29	0.28

Contribution % from PCDD/Fs	Lower	37.50	76.92	28.57	13.95	62.26	45.05	19.54	39.39
Contribution % from PCDD/Fs	Upper	92.54	86.96	80.77	42.49	86.30	82.08	75.86	92.96

Appendix 1 : Analytical data for MILK

Sample Reference		99122	92240	100119	91221	97009	97042	108818	108817
Reporting date		14/11/2014	14/11/2014	19/12/2014	19/12/2014	19/12/2014	19/12/2014	20/12/2014	20/12/2014
Region		Drammen	Sor-Helgeland	Midt Rogaland	Nordfjord	Nord-Osterdal	Nord-Osterdal	Haugalandet	Haugalandet
Analyte	Unit								
PCB-105	µg/kg	3.64		319.60	37.41	1142.01	969.09	3.24	4.30
PCB-114	µg/kg	0.75		23.70	2.41	75.25	57.22	0.80	1.34
PCB-118	µg/kg	37.41		1113.50	121.54	3375.53	2123.91	44.30	49.60
PCB-123	µg/kg	1.07		17.30	2.16	56.30	68.00	1.87	2.03
PCB-156	µg/kg	2.89		128.00	15.93	1059.22	527.65	2.41	2.14
PCB-157	µg/kg	0.53		27.00	3.33	138.17	80.35	1.07	1.60
PCB-167	µg/kg	1.39		47.00	6.91	416.53	191.96	1.55	1.66
PCB-189	µg/kg	1.02		7.50	1.73	134.34	73.65	1.66	1.55
PCB-77	ng/kg	0.80		9.90	11.60	113.88	102.00	0.56	0.86
PCB-81	ng/kg	0.11		0.60	0.56	4.75	4.70	0.08	0.11
PCB-126	ng/kg	0.16		1.70	<0.37	7.81	5.09	0.11	0.16
PCB-169	ng/kg	0.19		<0.51	<0.31	<1.92	<0.78	0.21	0.27
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.02		0.22	0.01	0.99	0.64	0.02	0.03
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.02		0.24	0.05	1.04	0.67	0.02	0.03
2,3,7,8-TCDD	ng/kg	<0.05	<0.05	<0.15	<0.19	<0.09	<0.087	<0.2	<0.15
1,2,3,7,8-PeCDD	ng/kg	<0.1	<0.1	<0.20	<0.37	<0.09	<0.087	<0.25	<0.3
1,2,3,4,7,8-HxCDD	ng/kg	<0.05	<0.05	<0.31	<0.25	<0.05	<0.04	0.20	<0.1
1,2,3,6,7,8-HxCDD	ng/kg	<0.05	<0.05	<0.31	<0.25	0.14	0.09	<0.15	<0.15
1,2,3,7,8,9-HxCDD	ng/kg	<0.05	<0.05	<0.36	<0.25	0.14	0.13	<0.2	<0.15
1,2,3,4,6,7,8-HpCDD	ng/kg	0.10	0.15	0.36	0.37	0.46	0.35	0.60	0.75
OCDD	ng/kg	<0.1	*	1.12	1.30	1.19	0.91	1.05	1.15
2,3,7,8-TCDF	ng/kg	<0.05	<0.05	<0.05	<0.19	<0.14	<0.13	<0.2	<0.2
1,2,3,7,8-PeCDF	ng/kg	0.10	<0.05	<0.10	<0.12	0.18	0.09	<0.15	<0.15
2,3,4,7,8-PeCDF	ng/kg	<0.05	0.05	0.15	<0.06	0.09	0.09	<0.1	<0.1
1,2,3,4,7,8-HxCDF	ng/kg	<0.05	<0.05	0.15	<0.12	0.18	<0.09	0.20	0.25
1,2,3,6,7,8-HxCDF	ng/kg	<0.05	<0.05	<0.10	<0.06	<0.09	<0.09	<0.1	0.20
1,2,3,7,8,9-HxCDF	ng/kg	<0.05	0.15	0.15	0.19	0.14	0.17	<0.15	0.40
2,3,4,6,7,8-HxCDF	ng/kg	<0.05	<0.05	<0.10	<0.12	0.14	0.13	0.35	0.45
1,2,3,4,6,7,8-HpCDF	ng/kg	<0.05	<0.05	0.20	0.31	0.27	0.22	0.65	0.70
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.05	<0.05	<0.10	<0.12	0.14	<0.09	0.30	0.40
OCDF	ng/kg	<0.1	<0.05	0.36	0.31	0.46	0.39	0.75	1.00
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.00	0.03	0.08	0.03	0.12	0.09	0.09	0.15
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.21	0.22	0.58	0.73	0.33	0.30	0.66	0.69
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.02		0.30	0.03	1.10	0.73	0.11	0.18
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.23		0.81	0.78	1.37	0.96	0.68	0.72

Contribution % from PCDD/Fs	Lower	16.67	no value	27.30	78.66	10.45	11.91	81.98	83.25
Contribution % from PCDD/Fs	Upper	91.30	no value	71.04	93.22	23.77	30.77	97.04	95.85

Appendix 1 : Analytical data for MILK

Sample Reference		92396	92150	108673	92341	96127	92512	108366	91048
Reporting date		20/12/2014	03/02/2015	19/03/2015	27/11/2015	27/11/2015	11/12/2015	11/01/2016	22/04/2016
Region		Salten	Midt-og Nord Helgeland	Haugalandet	Helgeland	Mjosomradet	Midtre Halogaland	Sor-Rogaland, Sirdal og Flekkefjord	Helgeland
Analyte	Unit								
PCB-105	µg/kg	5.75	34.45	84.15	3.00	23.60	21.00	57.40	7.15
PCB-114	µg/kg	0.80	2.95	9.60	1.25	2.40	2.35	4.45	0.90
PCB-118	µg/kg	33.16	116.30	512.20	58.20	113.00	92.50	289.00	31.40
PCB-123	µg/kg	0.80	1.99	6.40	1.45	1.90	1.40	4.00	0.65
PCB-156	µg/kg	3.61	13.22	128.50	11.40	9.20	9.65	70.10	3.45
PCB-157	µg/kg	1.07	2.60	16.85	0.75	1.95	1.90	7.70	0.95
PCB-167	µg/kg	2.27	7.05	55.35	7.15	5.15	4.20	27.80	1.95
PCB-189	µg/kg	0.86	0.89	19.00	1.55	0.85	0.90	9.35	<0.55
PCB-77	ng/kg	0.94	10.21	13.45	2.00	3.00	3.85	0.30	0.65
PCB-81	ng/kg	<0.08	<0.62	<0.35	0.15	0.20	0.25	<0.1	<0.3
PCB-126	ng/kg	0.27	<0.411	<0.55	0.75	1.10	0.65	0.20	0.35
PCB-169	ng/kg	0.13	<0.21	<0.4	0.15	0.40	0.30	<0.1	<0.25
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.03	0.01	0.03	0.08	0.13	0.08	0.03	0.04
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.03	0.05	0.09	0.08	0.13	0.08	0.04	0.04
2,3,7,8-TCDD	ng/kg	<0.15	<0.14	<0.1	<0.1	<0.15	<0.1	<0.15	<0.1
1,2,3,7,8-PeCDD	ng/kg	<0.2	<0.34	<0.2	<0.15	<0.24	<0.19	<0.26	<0.2
1,2,3,4,7,8-HxCDD	ng/kg	<0.1	<0.14	0.05	<0.05	<0.08	0.06	<0.1	<0.05
1,2,3,6,7,8-HxCDD	ng/kg	<0.1	<0.14	0.15	<0.05	<0.08	0.07	0.40	0.10
1,2,3,7,8,9-HxCDD	ng/kg	0.20	<0.14	0.10	<0.05	<0.08	<0.06	0.25	<0.05
1,2,3,4,6,7,8-HpCDD	ng/kg	0.45	0.41	0.40	<0.05	0.19	<0.10	1.00	0.10
OCDD	ng/kg	1.65	1.37	0.75	0.35	0.34	<0.08	1.20	<0.15
2,3,7,8-TCDF	ng/kg	<0.15	<0.14	0.10	<0.05	<0.1	<0.07	<0.15	<0.1
1,2,3,7,8-PeCDF	ng/kg	<0.1	<0.14	0.15	<0.05	<0.12	<0.09	<0.05	<0.05
2,3,4,7,8-PeCDF	ng/kg	<0.1	<0.07	0.20	<0.05	<0.10	<0.07	0.15	<0.05
1,2,3,4,7,8-HxCDF	ng/kg	<0.1	<0.14	<0.1	<0.05	<0.06	<0.08	<0.05	<0.05
1,2,3,6,7,8-HxCDF	ng/kg	0.15	<0.14	0.10	<0.05	<0.06	<0.07	0.10	<0.05
1,2,3,7,8,9-HxCDF	ng/kg	0.25	<0.21	0.15	0.10	0.16	0.11	0.15	0.10
2,3,4,6,7,8-HxCDF	ng/kg	0.20	<0.14	0.05	0.10	0.09	0.10	0.25	<0.05
1,2,3,4,6,7,8-HpCDF	ng/kg	0.70	0.27	0.20	<0.05	0.11	<0.05	0.30	<0.05
1,2,3,4,7,8,9-HpCDF	ng/kg	0.20	<0.14	0.20	<0.1	<0.05	<0.05	<0.1	<0.05
OCDF	ng/kg	1.05	<0.14	0.30	<0.15	<0.09	<0.14	<0.25	<0.15
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.09	0.01	0.14	0.00	0.03	0.03	0.17	0.02
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.52	0.63	0.45	0.00	0.50	0.38	0.61	0.37
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.12	0.01	0.17	0.08	0.15	0.11	0.21	0.06
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.55	0.68	0.55	0.08	0.62	0.45	0.64	0.42

Contribution % from PCDD/Fs	Lower	75.86	54.89	84.45		17.80	29.60	83.53	36.52
Contribution % from PCDD/Fs	Upper	94.57	92.10	82.90		79.58	82.73	94.22	89.45

Appendix 1 : Analytical data for MILK

Sample Reference		114803	114802	114801	91795	91794	90902	91107	91108
Reporting date		22/04/2016	22/04/2016	22/04/2016	07/09/2016	07/09/2016	19/05/2016	21/09/2016	23/09/2016
Region		Nordmore og Romsdal	Nordmore og Romsdal	Nordmore og Romsdal	Hardanger og Sunnhordaland	Hardanger og Sunnhordaland	Midtre Hålogaland	Nordfjord	Nordfjord
Analyte	Unit								
PCB-105	µg/kg	14.30	7.60	7.00	16.80	75.20	<0.01	<0.01	0.01
PCB-114	µg/kg	1.30	0.95	0.95	1.76	7.48	<0.01	<0.01	<0.01
PCB-118	µg/kg	51.70	41.30	29.50	68.60	409.00	0.05	0.04	0.05
PCB-123	µg/kg	1.25	<0.25	<0.25	1.76	6.32	<0.01	<0.01	<0.01
PCB-156	µg/kg	5.10	4.90	2.50	8.20	109.00	<0.01	<0.01	<0.01
PCB-157	µg/kg	1.25	0.90	0.65	1.24	11.40	<0.01	<0.01	<0.01
PCB-167	µg/kg	2.75	1.85	1.30	3.68	40.60	<0.01	<0.01	<0.01
PCB-189	µg/kg	<0.5	<0.6	<0.5	0.68	15.20	<0.01	<0.01	<0.01
PCB-77	ng/kg	0.60	0.55	<0.35	2.56	2.52	1.38	1.46	1.54
PCB-81	ng/kg	<0.3	<0.3	<0.35	0.20	0.20	0.09	0.11	0.17
PCB-126	ng/kg	0.60	0.85	<0.35	0.44	1.08	0.42	0.48	0.47
PCB-169	ng/kg	<0.2	<0.3	<0.2	0.12	0.52	0.10	0.13	0.15
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.06	0.09	0.00	0.05	0.14	0.05	0.05	0.05
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.07	0.10	0.04	0.05	0.14	0.05	0.05	0.05
2,3,7,8-TCDD	ng/kg	<0.1	<0.1	<0.1	<0.007	<0.008	<0.01	<0.02	0.04
1,2,3,7,8-PeCDD	ng/kg	<0.15	<0.1	<0.15	<0.015	<0.02	0.04	0.02	0.05
1,2,3,4,7,8-HxCDD	ng/kg	0.10	<0.1	<0.2	0.11	<0.01	<0.03	0.01	0.04
1,2,3,6,7,8-HxCDD	ng/kg	<0.1	<0.15	<0.2	<0.008	0.18	0.04	0.03	0.05
1,2,3,7,8,9-HxCDD	ng/kg	<0.1	<0.15	<0.2	0.15	<0.01	0.02	0.02	0.03
1,2,3,4,6,7,8-HpCDD	ng/kg	0.10	0.15	<0.15	0.28	0.49	0.08	<0.05	0.06
OCDD	ng/kg	<0.15	0.30	0.35	0.49	0.89	0.16	<0.09	<0.1
2,3,7,8-TCDF	ng/kg	<0.05	<0.05	<0.1	<0.009	<0.01	0.01	<0.05	0.07
1,2,3,7,8-PeCDF	ng/kg	<0.05	<0.05	<0.05	<0.012	<0.01	0.01	0.01	0.04
2,3,4,7,8-PeCDF	ng/kg	<0.05	0.05	<0.05	<0.01	<0.01	0.06	0.07	0.09
1,2,3,4,7,8-HxCDF	ng/kg	<0.05	<0.05	<0.05	<0.009	<0.01	0.03	0.03	0.05
1,2,3,6,7,8-HxCDF	ng/kg	<0.05	<0.05	<0.05	<0.009	<0.01	0.02	0.02	0.05
1,2,3,7,8,9-HxCDF	ng/kg	0.15	0.10	0.15	0.08	0.06	<0.02	<0.01	0.02
2,3,4,6,7,8-HxCDF	ng/kg	<0.05	<0.05	<0.05	<0.009	<0.01	0.03	0.02	0.05
1,2,3,4,6,7,8-HpCDF	ng/kg	<0.1	<0.05	<0.1	0.17	0.19	<0.03	<0.04	0.05
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.1	<0.1	<0.1	0.03	0.16	<0.01	<0.01	0.02
OCDF	ng/kg	<0.1	<0.15	<0.25	0.31	0.24	<0.04	<0.05	0.06
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.03	0.03	0.02	0.04	0.03	0.07	0.05	0.16
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.34	0.29	0.37	0.07	0.07	0.09	0.08	0.16
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.09	0.11	0.02	0.09	0.18	0.12	0.10	0.21
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.40	0.39	0.41	0.12	0.21	0.14	0.13	0.21

Contribution % from PCDD/Fs	Lower	29.41	23.46	92.30	43.08	18.32	58.33	50.00	76.19
Contribution % from PCDD/Fs	Upper	83.02	75.15	89.72	57.11	31.30	64.29	61.54	76.19

Appendix 1 : Analytical data for MILK

Sample Reference		92796	92798	92797	107618	107594	110514	110510	91773
Reporting date		11/11/2016	11/11/2016	11/11/2016	01/12/2016	01/12/2016	21/03/2017	21/03/2017	06/04/2017
Region		Nordre Buskerud, Hadeland og Valdres	Nordre Buskerud, Hadeland og Valdres	Nordre Buskerud, Hadeland og Valdres	Haugalandet	Haugalandet	Nordmøre og Romsdal	Nordmøre og Romsdal	Hardanger og Sunnhordaland
Analyte	Unit								
PCB-105	µg/kg	0.02	0.01	0.02	0.04	0.01	0.01	0.03	0.01
PCB-114	µg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-118	µg/kg	0.12	0.08	0.08	0.20	0.06	0.06	0.11	0.07
PCB-123	µg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-156	µg/kg	0.01	<0.01	<0.01	0.06	<0.01	<0.01	0.01	0.01
PCB-157	µg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-167	µg/kg	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
PCB-189	µg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-77	ng/kg	0.86	1.61	1.48	<0.39	<0.38	1.23	1.60	<0.44
PCB-81	ng/kg	0.17	0.12	0.15	0.06	0.08	0.16	0.16	0.05
PCB-126	ng/kg	2.36	0.78	0.88	0.61	0.53	0.60	0.54	0.54
PCB-169	ng/kg	0.38	0.21	0.24	0.15	0.15	0.17	0.11	0.21
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.25	0.09	0.10	0.08	0.06	0.07	0.07	0.06
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.25	0.09	0.10	0.08	0.06	0.07	0.07	0.06
2,3,7,8-TCDD	ng/kg	<0.04	<0.01	0.02	0.01	0.01	<0.02	<0.01	0.02
1,2,3,7,8-PeCDD	ng/kg	0.06	0.04	0.05	0.04	0.03	0.04	<0.01	0.04
1,2,3,4,7,8-HxCDD	ng/kg	0.03	<0.02	<0.01	0.02	0.03	0.08	<0.01	0.04
1,2,3,6,7,8-HxCDD	ng/kg	0.08	0.06	0.04	0.07	0.06	0.07	0.02	0.06
1,2,3,7,8,9-HxCDD	ng/kg	0.03	0.02	0.02	0.03	0.03	0.04	<0.02	0.04
1,2,3,4,6,7,8-HpCDD	ng/kg	0.06	0.15	0.07	0.12	0.10	0.17	0.05	0.09
OCDD	ng/kg	0.28	0.32	0.17	<0.75	<0.73	0.19	0.09	0.15
2,3,7,8-TCDF	ng/kg	<0.04	0.04	0.05	<0.04	<0.04	<0.07	<0.07	0.01
1,2,3,7,8-PeCDF	ng/kg	0.02	0.03	0.02	<0.04	<0.04	<0.01	0.02	<0.02
2,3,4,7,8-PeCDF	ng/kg	0.23	0.08	0.11	0.11	0.11	0.11	0.10	0.11
1,2,3,4,7,8-HxCDF	ng/kg	0.09	0.05	0.05	0.05	0.06	0.04	0.08	0.08
1,2,3,6,7,8-HxCDF	ng/kg	0.07	0.04	0.05	0.05	0.05	0.04	0.05	0.06
1,2,3,7,8,9-HxCDF	ng/kg	<0.03	<0.01	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01
2,3,4,6,7,8-HxCDF	ng/kg	0.06	0.05	0.04	0.04	0.04	0.04	0.04	0.04i
1,2,3,4,6,7,8-HpCDF	ng/kg	0.04	0.06	0.06	<0.05	0.05	0.02	0.04	0.05
1,2,3,4,7,8,9-HpCDF	ng/kg	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
OCDF	ng/kg	0.05	0.03	0.02	<0.05	<0.05	0.02	0.01	0.08
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.17	0.09	0.13	0.11	0.10	0.11	0.05	0.13
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.21	0.11	0.13	0.12	0.11	0.13	0.08	0.13
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.42	0.18	0.23	0.19	0.16	0.18	0.12	0.19
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.46	0.20	0.23	0.20	0.17	0.20	0.15	0.19

Contribution % from PCDD/Fs	Lower	40.48	50.00	56.52	57.89	62.50	60.44	43.48	66.32
Contribution % from PCDD/Fs	Upper	45.65	55.00	56.52	60.00	64.71	63.73	54.79	67.01

Appendix 1 : Analytical data for MILK

Sample Reference		91776	87500	93550	93551	113348	88879	99056	99054
Reporting date		04/04/2017	27/05/2017	28/09/2017	28/09/2017	21/11/2017	26/09/2017	17/11/2017	07/11/2017
Region		Hardanger og Sunnhordaland	Midtre Hålogaland	Nordfjord	Nordfjord	Nordmøre og Romsdal	Helgeland	Telemark	Telemark
Analyte	Unit								
PCB-105	µg/kg	0.06	0.05	<0.01	0.02	<0.01	0.01	0.03	0.04
PCB-114	µg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-118	µg/kg	0.47	0.13	0.06	0.09	0.03	0.07	0.18	0.21
PCB-123	µg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-156	µg/kg	0.18	0.01	<0.01	0.01	<0.01	<0.01	0.02	0.02
PCB-157	µg/kg	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-167	µg/kg	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
PCB-189	µg/kg	0.01i	<0.01	0.17	0.25	0.03	<0.01	<0.02	<0.01
PCB-77	ng/kg	<0.51	<0.55	<0.51	0.93	1.04	0.87	0.84	0.84
PCB-81	ng/kg	0.09	0.11	0.08	0.12	0.11	0.15	0.18	0.29
PCB-126	ng/kg	1.34	0.55	0.74	1.18	0.37	0.91	1.58	2.45
PCB-169	ng/kg	0.27	0.11	0.16	0.23	0.10	0.19	0.53	0.74
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.17	0.07	0.09	0.14	0.04	0.10	0.18	0.28
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.17	0.07	0.09	0.14	0.04	0.10	0.18	0.28
2,3,7,8-TCDD	ng/kg	0.02	<0.02	<0.02	<0.03	<0.01	<0.04	<0.05	<0.05
1,2,3,7,8-PeCDD	ng/kg	0.06	0.03	<0.02	0.03	0.02	<0.04	<0.05	0.11
1,2,3,4,7,8-HxCDD	ng/kg	0.04	<0.01	<0.03	0.04	0.01	0.01	<0.03	0.06
1,2,3,6,7,8-HxCDD	ng/kg	0.10	0.04	<0.03	0.08	0.03	0.04	0.05	0.13
1,2,3,7,8,9-HxCDD	ng/kg	0.05	0.02	<0.02	0.02	<0.02	<0.04	<0.05	0.06
1,2,3,4,6,7,8-HpCDD	ng/kg	0.26	<0.07	0.05	0.10	0.06	<0.1	<0.11	0.19
OCDD	ng/kg	0.52	0.11	<0.09	0.15	0.11	0.13	<0.12	0.11
2,3,7,8-TCDF	ng/kg	0.01	0.04	<0.03	<0.04	0.03	<0.03	<0.03	<0.03
1,2,3,7,8-PeCDF	ng/kg	<0.02	0.02	0.02	0.02	0.02	<0.07	<0.07	<0.07
2,3,4,7,8-PeCDF	ng/kg	0.23	0.08	0.07	0.09	0.05	0.12	0.14	0.26
1,2,3,4,7,8-HxCDF	ng/kg	0.11	0.05	<0.02	0.05	0.05	<0.06	0.11	0.15
1,2,3,6,7,8-HxCDF	ng/kg	0.09	0.03	0.02	0.05	0.03	<0.05	0.10	0.13
1,2,3,7,8,9-HxCDF	ng/kg	<0.01	<0.02	<0.02	<0.02	<0.01	<0.04	<0.05	<0.05
2,3,4,6,7,8-HxCDF	ng/kg	0.07	0.04	<0.03	0.05	0.03	<0.06	0.09	0.11
1,2,3,4,6,7,8-HpCDF	ng/kg	0.06	0.04	<0.05	<0.06	0.03	<0.05	0.07	0.08
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.01	0.01	<0.01	0.02	<0.01	<0.06	<0.06	<0.06
OCDF	ng/kg	<0.05	0.06	<0.2	<0.24	0.08	<0.11	<0.12	<0.12
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.20	0.08	0.02	0.09	0.05	0.04	0.08	0.26
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.20	0.10	0.08	0.12	0.07	0.15	0.20	0.32
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.37	0.15	0.11	0.23	0.09	0.14	0.26	0.53
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.37	0.17	0.17	0.26	0.11	0.25	0.38	0.60

Contribution % from PCDD/Fs	Lower	54.79	53.33	18.69	38.96	54.35	29.29	30.35	48.30
Contribution % from PCDD/Fs	Upper	55.34	58.82	47.34	45.80	61.40	61.60	52.24	52.67

Appendix 1 : Analytical data for MILK

Sample Reference		99055	93180	93175	87123	99040	99075	100931
Reporting date		07/11/2017	16/11/2017	20/11/2017	06/07/2017	17/11/2017	07/12/2017	07/12/2017
Region		Telemark	Haugalandet	Haugalandet	Helgeland	Telemark	Telemark	Telemark
Analyte	Unit							
PCB-105	µg/kg	0.04	0.17	0.16	<0.01	0.03	0.03	<0.03
PCB-114	µg/kg	<0.01	<0.02	0.01	<0.01	<0.01	<0.01	<0.01
PCB-118	µg/kg	0.20	0.75	0.77	0.06	0.15	<0.15	0.16
PCB-123	µg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-156	µg/kg	0.02	0.09	0.18	<0.01	0.01	0.02	0.02
PCB-157	µg/kg	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01
PCB-167	µg/kg	0.01	0.03	0.07	<0.01	<0.01	<0.01	<0.01
PCB-189	µg/kg	<0.01	0.04i	0.02	<0.04	<0.01	<0.01	<0.01
PCB-77	ng/kg	0.96	1.46	1.12	0.71	<0.83	1.25	1.11
PCB-81	ng/kg	0.28	0.20	<0.18	0.10	<0.18	0.20	0.21
PCB-126	ng/kg	2.26	1.20	1.17	0.33	1.64	1.78	1.77
PCB-169	ng/kg	0.55	0.24	0.21	0.12	0.56	0.49	0.63
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.25	0.16	0.16	0.04	0.19	0.19	0.21
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.25	0.16	0.16	0.04	0.19	0.20	0.21
2,3,7,8-TCDD	ng/kg	<0.05	<0.05	<0.06	<0.05	<0.06	0.03	<0.09
1,2,3,7,8-PeCDD	ng/kg	0.06	0.07	0.07	0.08	<0.05	<0.09	<0.09
1,2,3,4,7,8-HxCDD	ng/kg	0.04	0.06	<0.05	0.10	<0.05	<0.04	<0.06
1,2,3,6,7,8-HxCDD	ng/kg	0.15	0.09	0.08	0.07	0.08	0.11	0.08
1,2,3,7,8,9-HxCDD	ng/kg	0.06	<0.05	<0.05	<0.05	<0.05	0.05	<0.08
1,2,3,4,6,7,8-HpCDD	ng/kg	0.53	0.18	0.27	<0.11	0.08	0.44	0.11
OCDD	ng/kg	0.70	0.34	0.92	0.22	<0.11	0.42	0.16
2,3,7,8-TCDF	ng/kg	0.03	0.07	<0.08	0.04	<0.08	<0.07	0.09
1,2,3,7,8-PeCDF	ng/kg	<0.08	<0.08	<0.1	<0.07	<0.1	<0.06	0.07
2,3,4,7,8-PeCDF	ng/kg	0.15	0.19	0.32	0.06	0.16	0.17	0.14
1,2,3,4,7,8-HxCDF	ng/kg	0.13	0.08	0.18	<0.06	0.11	0.16	0.16
1,2,3,6,7,8-HxCDF	ng/kg	0.12	0.08	0.13	<0.06	0.11	0.13	0.13
1,2,3,7,8,9-HxCDF	ng/kg	<0.05	<0.05	<0.04	<0.05	<0.04	<0.03	0.05
2,3,4,6,7,8-HxCDF	ng/kg	0.10	<0.07	0.11	<0.07	<0.06	0.10	0.10
1,2,3,4,6,7,8-HpCDF	ng/kg	0.18	<0.06	0.09	<0.06	<0.09	0.12	0.13
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.06	<0.07	<0.06	<0.06	<0.06	0.04	0.05
OCDF	ng/kg	<0.13	<0.13	<0.12	<0.12	<0.12	0.12	0.16
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.18	0.17	0.22	0.12	0.08	0.14	0.11
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.23	0.24	0.31	0.20	0.22	0.25	0.30
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.43	0.33	0.38	0.16	0.27	0.33	0.32
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.48	0.40	0.47	0.25	0.41	0.45	0.51

Contribution % from PCDD/Fs	Lower	40.89	50.15	57.89	73.46	30.08	42.17	34.92
Contribution % from PCDD/Fs	Upper	48.64	58.91	65.96	82.86	54.05	55.80	59.06

Appendix 2 : Analytical data for EGGS

Sample Reference		113153	97744	97757	97760	97761	113143	94097	113840
Reporting date		22/04/2014	20/08/2014	20/08/2014	20/08/2014	20/08/2014	20/08/2014	20/08/2014	20/08/2014
Region		Ostfold of Follo	Valdres og Gjovikregionen	Valdres og Gjovikregionen	Valdres og Gjovikregionen	Valdres og Gjovikregionen	Ostfold	Ostfold og Follo	Midt-Rogaland
Analyte	Unit								
PCB-105	µg/kg	164.40	0.15	0.94	0.11	1.42	0.07	175.54	142.22
PCB-114	µg/kg	6.29	0.01	0.05	0.04	0.06	<0.008	9.06	7.24
PCB-118	µg/kg	365.50	0.28	2.23	0.21	3.18	0.17	532.51	418.54
PCB-123	µg/kg	7.44	0.01	0.04	0.04	0.07	0.02	8.35	6.97
PCB-156	µg/kg	43.24	0.03	0.13	0.04	0.15	0.03	65.94	54.76
PCB-157	µg/kg	10.66	0.01	0.05	0.03	0.06	0.01	20.06	15.03
PCB-167	µg/kg	31.22	0.01	0.08	0.03	0.09	0.01	45.05	35.05
PCB-189	µg/kg	6.27	<0.004	<0.01	0.02	0.01	<0.006	7.29	5.82
PCB-77	ng/kg	8.76	0.45	0.49	0.69	1.80	0.72	10.83	9.58
PCB-81	ng/kg	0.40	<0.004	<0.01	0.11	<0.03	<0.02	0.55	0.60
PCB-126	ng/kg	2.86	0.01	<0.02	0.06	0.03	<0.01	3.65	2.91
PCB-169	ng/kg	0.70	<0.002	<0.01	0.04	0.01	0.01	1.19	0.88
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.33	0.001	0.0002	0.01	0.00	0.00	0.43	0.34
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.33	0.001	0.002	0.01	0.00	0.00	0.43	0.34
2,3,7,8-TCDD	ng/kg	<0.04	<0.007	<0.01	<0.01	<0.01	<0.01	<0.04	<0.03
1,2,3,7,8-PeCDD	ng/kg	<0.08	<0.01	<0.01	<0.01	<0.01	<0.015	0.17	0.19
1,2,3,4,7,8-HxCDD	ng/kg	<0.08	<0.004	<0.007	<0.006	0.01	<0.01	0.09	0.09
1,2,3,6,7,8-HxCDD	ng/kg	<0.08	<0.004	<0.007	<0.006	<0.006	<0.01	0.26	0.29
1,2,3,7,8,9-HxCDD	ng/kg	<0.04	<0.004	<0.0047	<0.004	0.01	<0.008	0.20	0.19
1,2,3,4,6,7,8-HpCDD	ng/kg	0.16	0.02	0.02	0.01	0.02	0.04	0.70	0.76
OCDD	ng/kg	0.44	0.01	0.02	0.02	0.02	0.04	0.86	0.82
2,3,7,8-TCDF	ng/kg	<0.08	<0.006	<0.009	<0.01	<0.02	<0.01	0.25	0.47
1,2,3,7,8-PeCDF	ng/kg	<0.08	0.01	<0.007	<0.006	<0.006	0.02	0.36	0.34
2,3,4,7,8-PeCDF	ng/kg	<0.08	<0.004	<0.007	<0.006	<0.006	<0.008	0.24	0.22
1,2,3,4,7,8-HxCDF	ng/kg	<0.04	<0.006	<0.007	<0.006	<0.006	0.01	0.19	0.19
1,2,3,6,7,8-HxCDF	ng/kg	<0.04	<0.006	<0.009	<0.006	0.01	0.01	0.18	0.17
1,2,3,7,8,9-HxCDF	ng/kg	0.08	0.01	<0.009	<0.01	<0.02	<0.02	0.11	0.07
2,3,4,6,7,8-HxCDF	ng/kg	0.08	<0.006	0.01	<0.008	0.02	0.03	0.24	0.20
1,2,3,4,6,7,8-HpCDF	ng/kg	0.20	0.01	<0.009	<0.006	0.02	0.02	0.42	0.29
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.04	<0.006	<0.01	<0.006	<0.006	0.01	0.05	<0.06
OCDF	ng/kg	0.20	<0.007	<0.007	<0.004	<0.006	0.02	0.16	0.08
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.02	0.00	0.00	0.00	0.01	0.00	0.42	0.44
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.20	0.02	0.03	0.03	0.04	0.04	0.46	0.47
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.35	0.00	0.00	0.01	0.01	0.01	0.85	0.78
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.53	0.02	0.03	0.04	0.04	0.04	0.89	0.81

Contribution % from PCDD/Fs	Lower	5.71	61.90	84.62	1.28	57.14	94.00	49.41	56.41
Contribution % from PCDD/Fs	Upper	37.74	96.77	94.17	78.49	91.01	96.90	51.69	58.02

Appendix 2 : Analytical data for EGGS

Sample Reference		113841	95094	95095	97782	97783	97789	97790	94100
Reporting date		20/08/2014	20/08/2014	20/08/2014	20/08/2014	20/08/2014	20/08/2014	20/08/2014	09/12/2014
Region		Midt-Rogaland	Hadeland og Ringerike	Hadeland og Ringerike	Valdres og Gjovikregionen	Valdres og Gjovikregionen	Valdres og Gjovikregionen	Valdres og Gjovikregionen	Drammen
Analyte	Unit								
PCB-105	µg/kg	0.53	181.53	175.09	125.43	212.14	127.84	119.15	76.25
PCB-114	µg/kg	0.04	9.46	9.08	7.44	10.74	7.42	6.74	5.50
PCB-118	µg/kg	1.14	562.36	544.01	371.49	625.74	373.95	358.48	250.75
PCB-123	µg/kg	0.03	7.03	7.70	6.01	15.14	6.31	5.10	2.13
PCB-156	µg/kg	0.12	72.28	69.20	44.17	80.24	44.05	45.51	42.38
PCB-157	µg/kg	0.02	20.53	20.33	11.52	23.01	11.74	11.90	7.50
PCB-167	µg/kg	0.05	46.32	46.44	27.90	54.51	28.17	29.39	17.13
PCB-189	µg/kg	0.02	7.90	7.65	4.15	9.39	4.38	4.89	3.50
PCB-77	ng/kg	0.22	12.46	10.02	7.97	13.30	8.74	7.13	37.13
PCB-81	ng/kg	<0.004	0.58	0.51	0.30	0.49	0.39	0.24	<0.25
PCB-126	ng/kg	<0.004	3.87	3.79	2.48	4.96	2.66	2.89	0.88
PCB-169	ng/kg	<0.002	1.11	0.89	0.61	1.61	0.64	0.82	<0.25
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.00	0.45	0.43	0.29	0.58	0.30	0.33	0.10
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.00	0.45	0.43	0.29	0.58	0.30	0.33	0.11
2,3,7,8-TCDD	ng/kg	<0.04	<0.05	<0.02	<0.03	<0.03	<0.03	<0.06	<0.38
1,2,3,7,8-PeCDD	ng/kg	0.25	0.17	0.14	0.10	0.08	0.11	0.28	<0.5
1,2,3,4,7,8-HxCDD	ng/kg	0.10	0.07	0.12	0.07	0.03	0.07	0.16	<0.13
1,2,3,6,7,8-HxCDD	ng/kg	0.32	0.27	0.39	0.19	0.14	0.19	0.56	<0.25
1,2,3,7,8,9-HxCDD	ng/kg	0.18	0.11	0.45	0.07	0.03	0.10	0.24	<0.25
1,2,3,4,6,7,8-HpCDD	ng/kg	0.50	0.60	1.53	0.45	0.30	0.46	1.42	<0.5
OCDD	ng/kg	0.68	0.75	1.15	0.79	0.40	0.54	1.22	<0.63
2,3,7,8-TCDF	ng/kg	0.27	0.53	0.20	0.72	0.45	0.18	0.36	<0.25
1,2,3,7,8-PeCDF	ng/kg	0.75	0.38	0.21	0.46	0.29	0.12	0.38	<0.25
2,3,4,7,8-PeCDF	ng/kg	0.14	0.25	0.13	0.44	0.27	0.18	0.52	<0.25
1,2,3,4,7,8-HxCDF	ng/kg	0.19	0.16	0.23	0.24	0.17	0.11	0.28	<0.25
1,2,3,6,7,8-HxCDF	ng/kg	0.15	0.17	0.29	0.14	0.06	0.15	0.30	<0.25
1,2,3,7,8,9-HxCDF	ng/kg	0.17	<0.06	0.07	<0.04	<0.05	0.04	<0.06	<0.38
2,3,4,6,7,8-HxCDF	ng/kg	0.28	0.31	0.80	0.11	0.13	0.10	0.38	<0.25
1,2,3,4,6,7,8-HpCDF	ng/kg	0.42	0.35	0.68	0.23	0.21	0.24	0.52	<0.38
1,2,3,4,7,8,9-HpCDF	ng/kg	0.15	<0.06	0.17	<0.04	<0.07	<0.05	<0.14	<0.5
OCDF	ng/kg	0.20	0.20	0.23	<0.04	<0.06	0.05	0.12	<0.38
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.49	0.43	0.46	0.41	0.28	0.27	0.70	
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.53	0.48	0.48	0.44	0.31	0.30	0.76	1.17
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.49	0.88	0.89	0.70	0.86	0.57	1.03	0.10
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.53	0.93	0.91	0.73	0.89	0.60	1.09	1.28

Contribution % from PCDD/Fs	Lower	99.98	48.86	51.69	58.57	32.56	47.37	67.96	
Contribution % from PCDD/Fs	Upper	99.91	51.61	52.75	60.27	34.83	50.00	69.72	91.35

Appendix 2 : Analytical data for EGGS

Sample Reference		106848	100307	113150	100308	100297	113813	100298	113814
Reporting date		09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Region		Trondheim og Orkdal	Trondheim og Orkdal	Ostfold of Follo	Trondheim og Orkdal	Trondheim og Orkdal	Midt-Rogaland	Trondheim og Orkdal	Midt-Rogaland
Analyte	Unit								
PCB-105	µg/kg	53.79	41.55	66.75	58.42	65.98	24.68	84.35	173.69
PCB-114	µg/kg	3.79	3.52	8.25	3.82	4.13	1.53	6.61	10.15
PCB-118	µg/kg	174.40	135.77	220.75	180.13	206.30	66.61	316.45	648.15
PCB-123	µg/kg	2.33	2.11	4.00	1.97	2.28	0.97	3.63	6.62
PCB-156	µg/kg	18.02	15.92	25.75	16.84	26.41	6.61	33.39	195.68
PCB-157	µg/kg	4.48	3.24	6.00	3.82	2.28	1.77	7.82	18.62
PCB-167	µg/kg	9.74	7.89	9.00	3.16	6.41	3.47	8.31	79.38
PCB-189	µg/kg	1.64	1.97	<2.25	1.97	2.83	<0.65	2.82	28.15
PCB-77	ng/kg	37.59	30.56	50.25	47.89	31.85	14.68	21.13	32.31
PCB-81	ng/kg	<0.26	<0.28	<1.0	<0.79	<0.87	<0.24	<0.65	0.77
PCB-126	ng/kg	1.47	<0.42	<1.75	<0.53	<0.43	<0.24	0.73	1.23
PCB-169	ng/kg	0.52	<0.28	<1.5	0.53	<0.33	<0.32	<0.48	<0.62
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.17	0.01	0.02	0.03	0.01	0.00	0.09	0.16
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.17	0.06	0.24	0.03	0.07	0.04	0.10	0.18
2,3,7,8-TCDD	ng/kg	<0.26	<0.42	<0.5	<0.3947	<0.33	<0.16	<0.32	<0.46
1,2,3,7,8-PeCDD	ng/kg	<0.26	<0.42	<0.75	<0.5263	<0.43	<0.24	<0.40	<0.46
1,2,3,4,7,8-HxCDD	ng/kg	<0.26	<0.42	<0.75	<0.7895	<0.33	<0.16	<0.32	<0.15
1,2,3,6,7,8-HxCDD	ng/kg	<0.26	<0.42	<0.75	<0.9211	<0.43	<0.16	<0.32	<0.15
1,2,3,7,8,9-HxCDD	ng/kg	<0.26	<0.56	<0.75	<0.9211	<0.43	<0.16	<0.40	<0.15
1,2,3,4,6,7,8-HpCDD	ng/kg	<0.17	<0.42	<0.5	1.97	<0.54	<0.16	<0.48	0.62
OCDD	ng/kg	<0.34	<0.85	<1.0	2.89	<0.76	<0.24	<0.81	2.46
2,3,7,8-TCDF	ng/kg	0.60	0.56	<0.5	<0.3947	<0.33	<0.24	<0.32	0.31
1,2,3,7,8-PeCDF	ng/kg	<0.17	<0.28	<0.5	<0.5263	<0.33	<0.08	<0.32	<0.15
2,3,4,7,8-PeCDF	ng/kg	<0.17	<0.14	<0.5	<0.3947	<0.33	<0.08	<0.24	<0.15
1,2,3,4,7,8-HxCDF	ng/kg	<0.17	<0.42	<0.5	<0.6579	<0.54	<0.08	<0.32	<0.31
1,2,3,6,7,8-HxCDF	ng/kg	<0.17	<0.28	<0.5	<0.5263	<0.54	<0.08	0.32	<0.31
1,2,3,7,8,9-HxCDF	ng/kg	0.17	<0.42	1.00	<0.9211	<0.65	0.24	<0.32	<0.31
2,3,4,6,7,8-HxCDF	ng/kg	<0.17	<0.42	<0.5	<0.6579	<0.54	<0.08	0.40	<0.31
1,2,3,4,6,7,8-HpCDF	ng/kg	<0.26	<0.28	1.00	1.32	<0.43	0.16	0.81	<0.31
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.34	<0.42	<1.0	<0.7895	<0.43	<0.16	<0.56	<0.46
OCDF	ng/kg	0.60	<0.56	<1.0	<1.0526	<0.65	<0.24	<0.65	<0.31
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.08	0.06	0.12	0.03		0.03	0.08	0.04
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.79	1.26	1.97	1.68	1.26	0.56	1.10	1.19
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.26	0.07	0.14	0.06	0.01	0.03	0.17	0.20
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.97	1.32	2.21	1.71	1.33	0.60	1.21	1.37

Contribution % from PCDD/Fs	Lower	32.26	85.69	89.03	54.08		86.39	47.88	18.97
Contribution % from PCDD/Fs	Upper	81.99	95.44	89.34	98.15	95.02	93.52	91.43	86.85

Appendix 2 : Analytical data for EGGS

Sample Reference		114216	95092	114217	95093	113162	113165	97759	100291
Reporting date		09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014	19/12/2014	20/12/2014
Region		Midt-Rogaland	Hadeland og Ringerike	Midt-Rogaland	Hadeland og Ringerike	Ostfold og Follo	Ostfold og Follo	Valdres og Gjovikregionen	Trondheim og Orkdal
Analyte	Unit								
PCB-105	µg/kg	180.70	144.39	85.73	83.67	23.44	16.53	42.25	103.30
PCB-114	µg/kg	9.53	9.70	5.33	6.94	1.48	1.39	3.50	5.40
PCB-118	µg/kg	772.56	453.94	287.67	293.67	79.69	47.22	137.00	225.00
PCB-123	µg/kg	9.07	15.45	4.67	3.67	1.02	0.83	2.30	5.99
PCB-156	µg/kg	285.81	69.70	63.87	38.16	8.98	6.94	17.15	45.10
PCB-157	µg/kg	10.93	11.06	8.40	7.35	2.19	2.08	3.40	15.67
PCB-167	µg/kg	63.49	25.61	14.00	13.88	3.98	3.61	9.35	34.66
PCB-189	µg/kg	46.51	6.97	8.53	3.47	0.94	<0.83	2.00	5.24
PCB-77	ng/kg	38.06	49.55	40.27	46.73	20.70	42.92	11.25	7.54
PCB-81	ng/kg	<1.16	1.52	<0.67	<0.61	<0.16	<0.28	<0.25	0.20
PCB-126	ng/kg	<0.93	2.73	*	0.82	<0.63	<0.42	<0.65	3.24
PCB-169	ng/kg	<1.63	<0.76	*	<0.41	<0.16	<0.42	<1.0	0.60
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.05	0.05	0.02	0.10	0.01	0.01	0.01	0.36
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.19	0.32	0.11	0.11	0.07	0.06	0.10	0.36
2,3,7,8-TCDD	ng/kg	<0.70	<0.61	<0.4	<0.41	<0.16	<0.28	<0.1	<0.15
1,2,3,7,8-PeCDD	ng/kg	<0.70	<0.45	<0.67	<0.61	<0.23	<0.42	<0.15	<0.35
1,2,3,4,7,8-HxCDD	ng/kg	<0.93	<0.15	<0.67	<0.41	<0.16	<0.28	<0.1	<0.15
1,2,3,6,7,8-HxCDD	ng/kg	<0.93	<0.15	<0.8	<0.41	<0.16	<0.42	0.09	0.25
1,2,3,7,8,9-HxCDD	ng/kg	<0.93	<0.15	<0.8	<0.41	0.16	<0.42	0.13	<0.15
1,2,3,4,6,7,8-HpCDD	ng/kg	0.62	<0.30	<0.93	<0.41	0.39	<0.42	0.35	0.80
OCDD	ng/kg	2.46	2.12	2.27	1.22	1.80	3.06	0.91	1.95
2,3,7,8-TCDF	ng/kg	<0.70	<0.45	<0.4	<0.41	0.16	<0.28	<0.1	<0.25
1,2,3,7,8-PeCDF	ng/kg	<0.70	<0.30	<0.53	<0.20	<0.16	<0.28	0.20	<0.15
2,3,4,7,8-PeCDF	ng/kg	<0.70	<0.15	<0.4	<0.20	<0.08	<0.14	0.15	<0.1
1,2,3,4,7,8-HxCDF	ng/kg	<0.93	<0.30	<0.67	<0.41	<0.16	<0.42	0.15	<0.2
1,2,3,6,7,8-HxCDF	ng/kg	<0.70	<0.30	<0.67	<0.41	<0.16	<0.28	0.10	<0.15
1,2,3,7,8,9-HxCDF	ng/kg	<0.70	<0.45	<0.8	0.41	<0.16	<0.42	0.20	<0.2
2,3,4,6,7,8-HxCDF	ng/kg	<0.70	<0.30	<0.67	<0.41	<0.16	<0.42	<0.1	<0.15
1,2,3,4,6,7,8-HpCDF	ng/kg	1.16	0.30	0.80	<0.41	<0.16	<0.28	0.35	0.90
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.93	<0.30	<0.53	<0.41	<0.23	<0.28	<0.1	0.30
OCDF	ng/kg	<1.1628	0.61	1.33	0.61	<0.23	<0.42	<0.1	0.90
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.01	0.00	0.01	0.04	0.04	0.00	0.12	0.05
TEQ dioxins (PCDD and PCDF) UB	ng/kg	2.31	1.35	1.77	1.43	0.55	1.05	0.41	0.71
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.06	0.05	0.03	0.14	0.04	0.01	0.13	0.41
TEQ dioxins and dioxin-like PCBs UB	ng/kg	2.50	1.68	1.89	1.54	0.63	1.11	0.52	1.07

Contribution % from PCDD/Fs	Lower	20.42	7.76	33.21	29.32	86.33	11.84	93.84	11.31
Contribution % from PCDD/Fs	Upper	92.50	80.72	93.93	92.70	88.32	94.50	80.04	66.21

Appendix 2 : Analytical data for EGGS

Sample Reference		100292	111220	111334	100236	100237	100144	111165	111164
Reporting date		20/12/2014	20/12/2014	04/02/2015	19/03/2015	19/03/2015	07/04/2015	21/04/2015	21/04/2015
Region		Trondheim og Orkdal	Ostfold ofgFollo	Ostfold og Follo	Trondheim og Orkdal	Trondheim og Orkdal	Indre Ostfold og Follo	Indre Ostfold og Follo	Indre Ostfold og Follo
Analyte	Unit								
PCB-105	µg/kg	113.30	123.30	48.84	17.65	359.94	11.05	118.50	5.15
PCB-114	µg/kg	6.50	7.63	4.28	0.85	20.39	1.05	7.25	0.20
PCB-118	µg/kg	268.00	298.40	186.65	55.00	1084.52	35.80	387.60	18.95
PCB-123	µg/kg	6.22	7.25	2.20	1.05	14.06	0.60	4.90	<0.2
PCB-156	µg/kg	46.99	52.11	36.07	7.35	182.06	6.00	76.70	4.20
PCB-157	µg/kg	16.48	13.88	6.53	1.70	33.03	1.45	12.15	0.65
PCB-167	µg/kg	35.12	35.65	16.19	2.85	72.26	3.55	32.80	2.10
PCB-189	µg/kg	5.34	6.37	4.57	0.70	15.10	1.00	8.60	0.25
PCB-77	ng/kg	8.54	9.95	6.53	10.65	27.48	9.50	12.30	7.00
PCB-81	ng/kg	0.30	0.40	0.40	<0.4	<0.90	<0.15	0.15	<0.3
PCB-126	ng/kg	3.14	2.86	1.10	<0.35	<0.90	0.25	0.70	<0.25
PCB-169	ng/kg	0.70	0.80	0.35	<0.5	<0.71	<0.2	0.25	<0.15
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.35	0.33	0.13	0.03	0.06	0.03	0.10	
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.35	0.33	0.13	0.05	0.17	0.03	0.10	
2,3,7,8-TCDD	ng/kg	<0.25	<0.15	<0.1734	<0.1	<0.19	<0.15	<0.1	<0.1
1,2,3,7,8-PeCDD	ng/kg	<0.3	<0.2	<0.2313	<0.15	<0.26	<0.2	<0.1	<0.1
1,2,3,4,7,8-HxCDD	ng/kg	<0.2	<0.15	<0.1156	<0.05	<0.13	<0.1	<0.1	0.15
1,2,3,6,7,8-HxCDD	ng/kg	<0.2	0.25	0.17	<0.1	0.19	<0.1	0.20	0.15
1,2,3,7,8,9-HxCDD	ng/kg	<0.2	0.20	0.17	<0.1	0.19	<0.1	0.15	0.15
1,2,3,4,6,7,8-HpCDD	ng/kg	1.00	0.90	1.16	0.55	0.65	0.45	1.95	1.95
OCDD	ng/kg	2.40	2.70	3.01	2.90	2.19	0.65	6.35	6.00
2,3,7,8-TCDF	ng/kg	<0.2	0.40	0.17	0.10	0.26	0.25	0.20	0.15
1,2,3,7,8-PeCDF	ng/kg	0.35	<0.1	0.29	0.20	0.19	0.10	<0.15	0.10
2,3,4,7,8-PeCDF	ng/kg	0.35	<0.1	0.35	<0.15	0.32	<0.15	0.30	0.25
1,2,3,4,7,8-HxCDF	ng/kg	0.30	0.35	0.46	0.10	0.39	0.35	0.35	0.55
1,2,3,6,7,8-HxCDF	ng/kg	0.25	<0.1	0.40	0.10	0.32	0.25	0.50	0.40
1,2,3,7,8,9-HxCDF	ng/kg	0.30	0.35	0.35	0.20	0.26	<0.2	0.30	0.30
2,3,4,6,7,8-HxCDF	ng/kg	0.45	0.40	0.46	0.15	0.19	0.25	1.40	1.00
1,2,3,4,6,7,8-HpCDF	ng/kg	0.90	0.65	1.27	0.40	0.71	0.55	3.00	2.60
1,2,3,4,7,8,9-HpCDF	ng/kg	0.35	0.25	0.40	<0.2	0.45	<0.5	1.05	0.85
OCDF	ng/kg	0.80	0.85	2.20	0.45	0.71	<0.2	5.90	5.70
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.27	0.21	0.36	0.08	0.30	0.12	0.46	0.42
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.90	0.62	0.78	0.40	0.77	0.57	0.68	0.62
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.62	0.54	0.49	0.11	0.36	0.15	0.56	
TEQ dioxins and dioxin-like PCBs UB	ng/kg	1.25	0.95	0.91	0.46	0.93	0.60	0.78	

Contribution % from PCDD/Fs	Lower	43.46	39.35	73.56	75.60	84.32	81.59	82.52	
Contribution % from PCDD/Fs	Upper	71.98	65.34	85.67	88.24	82.02	95.38	87.35	

Appendix 2 : Analytical data for EGGS

Sample Reference		100238	100239	100247	100246	100245	94084	93807	100010
Reporting date		20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015	27/05/2015	27/05/2015	18/06/2015
Region		Trondheim og Orkdal	Trondheim og Orkdal	Trondheim og Omland	Trondheim og Omland	Trondheim og Omland	Ostfold og Follo	Ostfold og Follo	Midt-Rogaland
Analyte	Unit								
PCB-105	µg/kg	40.50	40.50	31.10	57.70	46.90	14.90	16.40	132.00
PCB-114	µg/kg	2.75	2.60	1.85	5.55	3.70	0.59	1.04	8.50
PCB-118	µg/kg	122.00	119.00	74.40	224.00	138.00	42.54	44.37	446.00
PCB-123	µg/kg	1.75	2.10	1.10	3.40	2.35	0.72	0.59	5.70
PCB-156	µg/kg	32.10	27.00	19.70	52.50	30.20	10.25	10.12	105.00
PCB-157	µg/kg	5.30	4.50	3.00	8.40	4.95	1.57	1.66	10.60
PCB-167	µg/kg	13.70	11.80	8.05	20.90	13.00	4.14	3.99	40.60
PCB-189	µg/kg	4.95	4.35	3.15	7.00	4.40	1.28	1.46	11.70
PCB-77	ng/kg	10.50	8.50	9.45	5.85	12.30	32.83	30.97	3.90
PCB-81	ng/kg	0.35	0.30	0.40	0.30	0.65	0.09	0.12	0.35
PCB-126	ng/kg	0.70	0.55	0.50	1.10	0.90	0.41	0.45	0.95
PCB-169	ng/kg	0.20	<0.15	0.10	0.35	0.20	0.12	0.04	0.25
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.08	0.06	0.06	0.13	0.11	0.05	0.05	0.13
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.08	0.07	0.06	0.13	0.11	0.05	0.05	0.13
2,3,7,8-TCDD	ng/kg	<0.25	<0.2	<0.25	<0.15	<0.35	<0.1	<0.1	<0.15
1,2,3,7,8-PeCDD	ng/kg	<0.25	<0.2	<0.3	<0.15	<0.3	<0.1	<0.1	<0.15
1,2,3,4,7,8-HxCDD	ng/kg	<0.15	<0.15	<0.25	0.15	<0.25	<0.05	0.06	<0.05
1,2,3,6,7,8-HxCDD	ng/kg	0.30	<0.15	<0.25	0.20	<0.25	<0.05	0.07	<0.1
1,2,3,7,8,9-HxCDD	ng/kg	0.25	<0.2	<0.3	<0.15	<0.25	<0.05	0.12	<0.05
1,2,3,4,6,7,8-HpCDD	ng/kg	1.20	1.20	1.15	1.00	<1.2	0.21	0.38	0.25
OCDD	ng/kg	5.80	0.05	7.10	3.10	4.95	0.63	3.33	1.10
2,3,7,8-TCDF	ng/kg	0.25	<0.15	<0.15	<0.1	<0.15	0.20	0.29	<0.1
1,2,3,7,8-PeCDF	ng/kg	<0.15	0.40	<0.15	<0.1	<0.15	0.17	0.19	<0.05
2,3,4,7,8-PeCDF	ng/kg	<0.1	0.35	<0.15	0.45	<0.1	0.15	0.15	<0.05
1,2,3,4,7,8-HxCDF	ng/kg	0.25	0.30	0.30	0.35	<0.2	0.17	0.17	<0.05
1,2,3,6,7,8-HxCDF	ng/kg	0.35	0.30	0.35	0.20	<0.2	0.10	0.09	<0.05
1,2,3,7,8,9-HxCDF	ng/kg	<0.25	<0.2	0.35	<0.25	<0.25	0.15	<0.05	0.15
2,3,4,6,7,8-HxCDF	ng/kg	0.60	0.70	0.55	0.70	0.55	<0.05	<0.05	<0.05
1,2,3,4,6,7,8-HpCDF	ng/kg	1.50	1.35	0.90	1.25	1.60	0.22	0.22	0.20
1,2,3,4,7,8,9-HpCDF	ng/kg	0.50	0.50	0.35	0.50	<0.15	0.06	<0.05	<0.15
OCDF	ng/kg	3.05	3.50	3.15	3.20	4.55	0.45	0.42	0.60
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.24	0.28	0.18	0.32	0.07	0.12	0.14	0.02
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.81	0.76	0.88	0.68	0.93	0.34	0.35	0.38
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.32	0.34	0.24	0.46	0.18	0.17	0.19	0.15
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.89	0.83	0.94	0.81	1.03	0.39	0.40	0.51

Contribution % from PCDD/Fs	Lower	73.71	81.75	75.74	70.90	41.34	69.80	72.98	13.70
Contribution % from PCDD/Fs	Upper	90.61	91.96	93.77	83.58	89.83	87.00	87.20	75.25

Appendix 2 : Analytical data for EGGS

Sample Reference		100009	100051	100052	102190	102189	95851	95853	95854
Reporting date		18/06/2015	18/06/2015	18/06/2015	18/06/2015	18/06/2015	08/07/2015	08/07/2015	08/07/2015
Region		Midt-Rogaland	Midt-Rogaland	Midt-Rogaland	Ostfold og Follo	Ostfold og Follo	Mjosomradet	Mjosomradet	Mjosomradet
Analyte	Unit								
PCB-105	µg/kg	142.00	154.00	218.00	45.40	40.50	26.70	197.00	55.40
PCB-114	µg/kg	6.65	8.25	11.20	2.85	2.35	2.42	9.53	3.01
PCB-118	µg/kg	436.00	440.00	620.00	160.00	137.00	108.00	699.00	159.00
PCB-123	µg/kg	7.20	6.40	9.85	2.40	1.95	1.06	9.28	2.42
PCB-156	µg/kg	145.00	113.00	149.00	28.40	18.70	18.50	96.40	14.20
PCB-157	µg/kg	11.20	9.15	18.70	3.75	2.85	3.66	25.90	3.63
PCB-167	µg/kg	63.40	46.40	60.90	12.80	10.00	8.81	71.40	7.82
PCB-189	µg/kg	24.70	15.50	17.70	3.75	2.30	2.07	13.70	1.52
PCB-77	ng/kg	3.10	3.15	4.80	2.55	2.80	7.09	18.30	9.48
PCB-81	ng/kg	<0.2	0.25	<0.2	<0.2	0.15	0.18	0.72	0.24
PCB-126	ng/kg	0.50	0.60	0.50	0.40	0.85	0.35	3.49	0.69
PCB-169	ng/kg	<0.3	<0.2	<0.2	0.30	0.20	<0.22	0.38	0.17
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.08	0.08	0.08	0.06	0.10	0.04	0.40	0.08
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.08	0.09	0.09	0.06	0.10	0.05	0.40	0.08
2,3,7,8-TCDD	ng/kg	<0.15	<0.15	<0.1	<0.15	<0.15	<0.132	<0.128	<0.311
1,2,3,7,8-PeCDD	ng/kg	<0.2	<0.15	<0.1	<0.15	<0.15	<0.132	<0.128	<0.311
1,2,3,4,7,8-HxCDD	ng/kg	<0.05	<0.1	<0.1	<0.05	<0.05	<0.0881	<0.0851	<0.138
1,2,3,6,7,8-HxCDD	ng/kg	<0.1	<0.1	<0.1	<0.05	<0.05	<0.132	0.13	<0.138
1,2,3,7,8,9-HxCDD	ng/kg	<0.05	<0.1	<0.1	<0.05	<0.05	<0.0881	<0.0851	<0.138
1,2,3,4,6,7,8-HpCDD	ng/kg	<0.1	<0.1	<0.05	0.20	0.25	0.26	0.47	0.48
OCDD	ng/kg	1.25	0.90	0.70	0.90	1.25	1.28	2.09	1.90
2,3,7,8-TCDF	ng/kg	0.15	<0.1	<0.05	<0.1	<0.05	<0.0881	0.77	0.17
1,2,3,7,8-PeCDF	ng/kg	<0.1	0.15	<0.05	<0.05	<0.05	<0.0441	0.21	0.21
2,3,4,7,8-PeCDF	ng/kg	<0.1	<0.1	<0.05	<0.05	0.15	0.18	0.51	<0.104
1,2,3,4,7,8-HxCDF	ng/kg	<0.1	<0.1	<0.05	0.10	<0.1	0.09	0.17	<0.138
1,2,3,6,7,8-HxCDF	ng/kg	<0.1	<0.1	<0.05	<0.1	<0.1	0.09	0.21	<0.104
1,2,3,7,8,9-HxCDF	ng/kg	<0.1	<0.1	0.15	0.10	0.15	0.13	0.09	<0.138
2,3,4,6,7,8-HxCDF	ng/kg	<0.1	<0.1	<0.05	<0.1	<0.1	0.13	0.17	<0.104
1,2,3,4,6,7,8-HpCDF	ng/kg	0.25	0.15	0.20	0.25	0.20	0.35	0.43	0.38
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.132	<0.17	<0.208
OCDF	ng/kg	0.35	0.35	0.35	0.30	0.45	0.40	0.60	<0.208
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.02	0.01	0.02	0.02	0.07	0.10	0.32	0.03
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.46	0.42	0.29	0.39	0.42	0.41	0.60	0.78
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.09	0.09	0.10	0.08	0.16	0.15	0.72	0.12
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.55	0.51	0.37	0.44	0.52	0.46	0.99	0.86

Contribution % from PCDD/Fs	Lower	19.27	7.04	17.13	30.40	39.93	71.67	44.92	28.37
Contribution % from PCDD/Fs	Upper	84.57	82.25	76.06	87.14	81.04	89.56	60.12	90.39

Appendix 2 : Analytical data for EGGS

Sample Reference		102211	100259	100258	100260	95818	95819	95820	95821
Reporting date		05/08/2015	05/08/2015	05/08/2015	05/08/2015	22/09/2015	22/09/2015	22/09/2015	22/09/2015
Region		Ostfold og Follo	Trondheim og Omland	Trondheim og Omland	Trondheim og Omland	Mjosomradet	Mjosomradet	Mjosomradet	Mjosomradet
Analyte	Unit								
PCB-105	µg/kg	15.00	11.10	19.00	31.70	12.60	25.20	7.45	56.90
PCB-114	µg/kg	0.35	0.70	1.25	2.65	0.55	1.65	0.30	3.25
PCB-118	µg/kg	44.90	27.50	62.40	117.00	44.90	81.40	23.20	151.00
PCB-123	µg/kg	<0.2	<0.55	<0.3	<0.3	0.70	1.05	0.30	2.15
PCB-156	µg/kg	6.75	2.95	10.00	10.90	7.15	10.80	3.85	16.50
PCB-157	µg/kg	1.10	<0.55	<0.45	2.35	0.45	1.10	0.25	0.90
PCB-167	µg/kg	2.40	1.75	4.10	8.40	3.45	5.55	1.95	8.45
PCB-189	µg/kg	0.75	<0.75	<0.6	1.40	0.70	0.90	<0.4	<0.55
PCB-77	ng/kg	2.20	3.60	3.70	2.90	3.90	7.00	5.65	14.50
PCB-81	ng/kg	<0.2	<0.4	<0.2	<0.15	0.25	<0.1	<0.1	<0.2
PCB-126	ng/kg	<0.25	<0.65	<0.45	<0.4	0.15	0.20	0.25	0.35
PCB-169	ng/kg	*	<0.5	<0.4	<0.35	<0.15	<0.15	<0.1	<0.4
TOTAL TEQ Dioxin-like PCB LB	ng/kg		0.00	0.00	0.01	0.02	0.02	0.03	0.04
TOTAL TEQ Dioxin-like PCB UB	ng/kg		0.08	0.06	0.06	0.02	0.03	0.03	0.06
2,3,7,8-TCDD	ng/kg	<0.25	<0.15	<0.1	<0.15	<0.1	<0.05	<0.1	<0.1
1,2,3,7,8-PeCDD	ng/kg	<0.2	<0.2	<0.2	<0.2	<0.45	<0.4	<0.6	<0.8
1,2,3,4,7,8-HxCDD	ng/kg	<0.05	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05
1,2,3,6,7,8-HxCDD	ng/kg	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05
1,2,3,7,8,9-HxCDD	ng/kg	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	0.10
1,2,3,4,6,7,8-HpCDD	ng/kg	0.55	0.30	0.55	0.15	0.10	0.20	0.20	0.40
OCDD	ng/kg	1.20	3.60	5.30	1.75	0.50	0.60	0.75	0.80
2,3,7,8-TCDF	ng/kg	0.20	0.15	0.25	0.20	0.20	0.20	<0.05	0.10
1,2,3,7,8-PeCDF	ng/kg	0.25	0.15	0.15	0.15	<0.15	<0.2	<0.15	<0.25
2,3,4,7,8-PeCDF	ng/kg	<0.1	<0.1	0.10	<0.1	<0.1	<0.15	<0.1	<0.25
1,2,3,4,7,8-HxCDF	ng/kg	0.30	0.15	<0.15	0.15	0.20	0.15	<0.1	<0.15
1,2,3,6,7,8-HxCDF	ng/kg	0.15	<0.1	<0.1	<0.15	0.15	<0.05	0.10	<0.15
1,2,3,7,8,9-HxCDF	ng/kg	<0.2	0.25	0.15	<0.2	0.10	<0.1	<0.1	<0.15
2,3,4,6,7,8-HxCDF	ng/kg	<0.15	<0.1	<0.15	<0.15	0.10	<0.1	<0.1	<0.15
1,2,3,4,6,7,8-HpCDF	ng/kg	0.50	0.20	0.20	0.20	<0.15	0.10	0.25	0.25
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.25	<0.2	<0.2	<0.25	<0.2	<0.1	<0.15	<0.15
OCDF	ng/kg	0.55	0.70	0.80	0.50	0.40	0.55	0.55	0.50
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.08	0.07	0.08	0.04	0.08	0.04	0.01	0.03
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.63	0.50	0.46	0.51	0.68	0.58	0.80	1.08
TEQ dioxins and dioxin-like PCBs LB	ng/kg		0.07	0.09	0.05	0.09	0.06	0.04	0.07
TEQ dioxins and dioxin-like PCBs UB	ng/kg		0.58	0.52	0.56	0.70	0.61	0.83	1.14
Contribution % from PCDD/Fs	Lower		97.48	96.21	88.82	81.26	60.99	35.82	38.16
Contribution % from PCDD/Fs	Upper		85.88	88.30	90.02	96.85	95.22	96.42	95.10

Appendix 2 : Analytical data for EGGS

Sample Reference		95822	95823	95824	100263	100261	100262	91193	102228
Reporting date		22/09/2015	22/09/2015	22/09/2015	14/10/2015	14/10/2015	14/10/2015	14/10/2015	30/10/2015
Region		Mjosomradet	Mjosomradet	Mjosomradet	Trondheim og Omland	Trondheim og Omland	Trondheim og Omland	Nordfjord	Ostfold og Follo
Analyte	Unit								
PCB-105	µg/kg	83.10	32.00	27.40	35.30	28.60	41.30	19.40	128.00
PCB-114	µg/kg	5.20	2.65	2.49	1.85	1.70	2.75	0.96	5.75
PCB-118	µg/kg	272.00	126.00	115.00	109.00	99.50	135.00	104.00	384.00
PCB-123	µg/kg	3.00	1.80	1.27	<0.2	1.20	1.30	0.59	4.50
PCB-156	µg/kg	48.50	20.50	19.90	17.20	12.40	17.30	14.00	59.50
PCB-157	µg/kg	8.25	4.10	4.24	2.90	2.60	3.85	2.19	12.60
PCB-167	µg/kg	21.70	10.40	9.61	9.20	6.15	8.70	9.14	34.20
PCB-189	µg/kg	5.70	2.50	2.73	1.25	1.35	1.95	5.13	8.75
PCB-77	ng/kg	2.40	2.55	2.85	6.60	9.05	7.85	10.50	12.00
PCB-81	ng/kg	<0.55	<0.2	<0.54	0.30	0.40	0.40	0.21	0.60
PCB-126	ng/kg	<0.55	<0.2	<0.39	0.45	0.70	0.85	0.86	1.75
PCB-169	ng/kg	<0.55	<0.1	<0.29	0.10	0.15	0.15	0.21	0.35
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.01	0.01	0.01	0.05	0.08	0.10	0.10	0.21
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.09	0.03	0.05	0.05	0.08	0.10	0.10	0.21
2,3,7,8-TCDD	ng/kg	<0.7	<0.15	<0.49	<0.1	<0.1	<0.1	<0.11	<0.2
1,2,3,7,8-PeCDD	ng/kg	<0.5	<0.3	<0.49	<0.15	<0.2	<0.25	<0.16	<0.25
1,2,3,4,7,8-HxCDD	ng/kg	<0.2	<0.25	<0.20	<0.1	<0.1	<0.1	0.05	0.15
1,2,3,6,7,8-HxCDD	ng/kg	<0.2	<0.25	<0.20	<0.1	<0.1	<0.1	0.05	0.15
1,2,3,7,8,9-HxCDD	ng/kg	<0.2	<0.3	<0.20	<0.1	<0.1	<0.1	<0.05	<0.1
1,2,3,4,6,7,8-HpCDD	ng/kg	0.40	0.50	0.29	0.25	0.30	0.35	<0.11	<0.2
OCDD	ng/kg	2.45	2.45	1.56	1.25	1.10	<0.45	<0.37	0.85
2,3,7,8-TCDF	ng/kg	<0.35	<0.15	<0.24	0.20	0.20	0.25	<0.11	0.40
1,2,3,7,8-PeCDF	ng/kg	<0.2	<0.15	<0.15	<0.1	<0.1	0.10	<0.16	<0.1
2,3,4,7,8-PeCDF	ng/kg	<0.2	<0.15	<0.15	<0.05	<0.05	<0.05	<0.11	0.25
1,2,3,4,7,8-HxCDF	ng/kg	<0.55	<0.2	<0.29	<0.05	<0.05	<0.05	<0.05	<0.1
1,2,3,6,7,8-HxCDF	ng/kg	<0.5	<0.2	<0.29	<0.05	0.10	<0.05	<0.05	<0.1
1,2,3,7,8,9-HxCDF	ng/kg	<0.65	<0.25	<0.39	0.15	0.20	<0.1	0.16	<0.15
2,3,4,6,7,8-HxCDF	ng/kg	<0.55	<0.2	<0.29	0.10	0.20	<0.05	<0.05	0.10
1,2,3,4,6,7,8-HpCDF	ng/kg	0.55	0.40	0.34	0.15	0.30	0.20	<0.11	0.30
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.45	<0.1	<0.20	<0.15	<0.2	<0.15	<0.11	<0.1
OCDF	ng/kg	<0.55	0.55	0.59	<0.35	<0.3	<0.3	<0.27	<0.25
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.01	0.01	0.01	0.05	0.08	0.03	0.03	0.16
TEQ dioxins (PCDD and PCDF) UB	ng/kg	1.60	0.69	1.24	0.36	0.43	0.46	0.37	0.66
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.02	0.02	0.01	0.10	0.16	0.13	0.13	0.36
TEQ dioxins and dioxin-like PCBs UB	ng/kg	1.69	0.72	1.29	0.41	0.51	0.55	0.47	0.87

Contribution % from PCDD/Fs	Lower	42.68	61.34	55.26	47.78	48.79	25.71	22.81	43.41
Contribution % from PCDD/Fs	Upper	94.94	95.93	95.86	86.90	84.33	82.46	79.00	76.18

Appendix 2 : Analytical data for EGGS

Sample Reference		111187	114822	114844	114826	99949	99809	111200	96746
Reporting date		30/10/2015	30/10/2015	30/10/2015	30/10/2015	16/11/2015	16/11/2015	27/11/2015	18/03/2016
Region		Ostfold og Follo	Romsdal	Romsdal	Romsdal	Sor-Rogaland, Sirdal og Flekkefjord	Sor-Rogaland, Sirdal og Flekkefjord	Ostfold og Follo	Mjosomradet
Analyte	Unit								
PCB-105	µg/kg	32.60	22.70	26.70	27.90	141.00	112.00	8.60	32.30
PCB-114	µg/kg	2.05	2.95	2.90	3.40	7.65	7.30	0.65	1.87
PCB-118	µg/kg	101.00	124.00	126.00	141.00	469.00	399.00	24.80	76.90
PCB-123	µg/kg	1.30	1.20	0.65	2.50	7.00	5.40	0.35	1.34
PCB-156	µg/kg	12.10	10.90	11.90	13.60	113.00	94.40	5.25	8.32
PCB-157	µg/kg	2.70	2.15	2.50	3.30	12.70	10.90	1.05	1.79
PCB-167	µg/kg	6.30	5.85	5.00	6.75	48.00	39.20	1.70	3.82
PCB-189	µg/kg	1.80	1.25	1.10	1.15	22.60	20.70	0.85	0.88
PCB-77	ng/kg	11.90	0.90	1.30	3.00	3.80	4.10	3.45	3.47
PCB-81	ng/kg	<0.45	0.10	0.15	0.15	0.10	0.15	<0.08	0.12
PCB-126	ng/kg	<0.35	1.05	1.15	1.20	0.60	0.55	0.11	0.42
PCB-169	ng/kg	<0.45	0.40	0.40	0.40	<0.05	<0.05	0.04	0.08
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.01	0.12	0.13	0.14	0.09	0.08	0.01	0.05
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.05	0.12	0.13	0.14	0.09	0.08	0.01	0.05
2,3,7,8-TCDD	ng/kg	<0.05	<0.05	<0.07	<0.05	<0.1	<0.13	<0.05	<0.08
1,2,3,7,8-PeCDD	ng/kg	<0.1	<0.07	<0.07	<0.12	<0.15	<0.20	<0.1	<0.08
1,2,3,4,7,8-HxCDD	ng/kg	<0.05	<0.05	0.17	0.07	<0.06	<0.07	<0.05	<0.04
1,2,3,6,7,8-HxCDD	ng/kg	<0.05	<0.07	0.12	0.07	<0.07	<0.07	<0.05	<0.08
1,2,3,7,8,9-HxCDD	ng/kg	0.10	<0.07	0.12	<0.05	<0.06	<0.07	<0.05	<0.04
1,2,3,4,6,7,8-HpCDD	ng/kg	0.20	0.25	0.39	0.20	<0.24	0.23	0.30	0.31
OCDD	ng/kg	0.35	0.52	1.44	0.44	0.64	0.67	1.75	1.11
2,3,7,8-TCDF	ng/kg	0.10	<0.05	<0.05	<0.07	0.11	0.20	0.15	0.08
1,2,3,7,8-PeCDF	ng/kg	<0.05	<0.05	<0.05	<0.07	<0.11	<0.09	0.10	0.12
2,3,4,7,8-PeCDF	ng/kg	<0.05	0.10	0.10	0.10	<0.1	<0.08	0.05	<0.04
1,2,3,4,7,8-HxCDF	ng/kg	<0.05	0.07	0.12	0.02	0.10	<0.06	<0.1	0.12
1,2,3,6,7,8-HxCDF	ng/kg	<0.05	0.07	0.07	<0.02	<0.04	<0.06	<0.1	<0.04
1,2,3,7,8,9-HxCDF	ng/kg	0.15	0.15	0.12	<0.05	0.14	0.19	0.15	0.08
2,3,4,6,7,8-HxCDF	ng/kg	<0.05	0.12	0.12	0.10	0.06	<0.06	<0.1	0.08
1,2,3,4,6,7,8-HpCDF	ng/kg	<0.1	0.22	0.24	0.12	0.10	<0.09	0.15	0.12
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.15	0.07	0.07	<0.05	<0.09	<0.12	<0.05	<0.04
OCDF	ng/kg	<0.1	<0.15	0.20	<0.10	<0.315	<0.28	<0.2	0.15
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.04	0.08	0.12	0.06	0.04		0.05	0.04
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.23	0.23	0.28	0.25	0.35		0.25	0.23
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.04	0.20	0.25	0.20	0.13		0.07	0.09
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.29	0.35	0.41	0.39	0.44		0.26	0.27

Contribution % from PCDD/Fs	Lower	86.12	38.63	48.03	30.13	32.86		79.34	46.64
Contribution % from PCDD/Fs	Upper	80.88	64.94	67.65	64.71	80.18		94.71	82.33

Appendix 2 : Analytical data for EGGS

Sample Reference		96748	96744	96743	96745	96747	99894	99893	101887
Reporting date		18/03/2016	18/03/2016	18/03/2016	18/03/2016	18/03/2016	18/03/2016	18/03/2016	18/03/2016
Region		Mjosomradet	Mjosomradet	Mjosomradet	Mjosomradet	Mjosomradet	Sor-Rogaland, Sirdal og Flekkefjord	Sor-Rogaland, Sirdal og Flekkefjord	Ostfold og Follo
Analyte	Unit								
PCB-105	µg/kg	9.12	85.50	93.80	13.50	10.20	62.10	32.90	11.70
PCB-114	µg/kg	0.67	1.70	1.70	0.30	0.30	1.27	1.20	0.35
PCB-118	µg/kg	24.10	259.00	285.00	40.10	29.20	202.00	113.00	34.00
PCB-123	µg/kg	0.55	2.60	2.80	0.46	0.45	2.01	1.10	0.45
PCB-156	µg/kg	3.45	30.60	32.90	5.78	4.00	55.20	24.50	5.20
PCB-157	µg/kg	0.63	8.60	9.55	1.10	0.70	5.98	3.60	0.95
PCB-167	µg/kg	1.43	20.80	21.00	2.45	1.95	20.30	7.90	2.15
PCB-189	µg/kg	0.50	3.75	3.90	0.68	0.55	6.99	3.20	0.60
PCB-77	ng/kg	1.93	6.50	6.21	1.90	1.90	1.97	2.10	1.25
PCB-81	ng/kg	0.13	0.20	0.15	<0.08	<0.1	<0.04	<0.1	0.05
PCB-126	ng/kg	0.29	1.40	1.63	0.17	<0.05	0.09	0.25	0.35
PCB-169	ng/kg	<0.04	0.35	0.34	0.08	<0.05	<0.04	0.01	<0.05
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.03	0.16	0.19	0.02	0.00	0.02	0.03	0.04
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.03	0.16	0.19	0.02	0.01	0.02	0.03	0.04
2,3,7,8-TCDD	ng/kg	<0.13	<0.11	<0.08	<0.10	<0.08	<0.12	<0.11	<0.15
1,2,3,7,8-PeCDD	ng/kg	<0.13	<0.13	<0.11	<0.14	<0.12	<0.11	<0.09	<0.09
1,2,3,4,7,8-HxCDD	ng/kg	<0.04	<0.04	0.03	<0.05	<0.07	<0.04	<0.05	<0.04
1,2,3,6,7,8-HxCDD	ng/kg	<0.04	<0.05	0.06	0.08	<0.07	<0.05	<0.05	<0.04
1,2,3,7,8,9-HxCDD	ng/kg	<0.04	0.05	0.03	<0.05	<0.07	<0.04	<0.05	<0.04
1,2,3,4,6,7,8-HpCDD	ng/kg	0.25	0.22	0.49	0.23	0.24	0.23	0.30	0.26
OCDD	ng/kg	1.01	0.78	2.12	1.16	0.95	1.69	1.91	0.62
2,3,7,8-TCDF	ng/kg	<0.13	0.33	0.29	0.08	0.18	<0.07	<0.06	<0.07
1,2,3,7,8-PeCDF	ng/kg	<0.04	0.14	0.07	<0.08	0.16	<0.04	<0.05	0.16
2,3,4,7,8-PeCDF	ng/kg	<0.04	0.20	0.07	<0.07	0.09	<0.03	<0.04	<0.05
1,2,3,4,7,8-HxCDF	ng/kg	0.04	0.15	0.11	0.08	0.12	<0.06	<0.06	0.12
1,2,3,6,7,8-HxCDF	ng/kg	0.08	0.09	0.06	0.06	0.08	<0.06	<0.06	0.05
1,2,3,7,8,9-HxCDF	ng/kg	0.17	0.04	0.06	0.09	0.09	0.08	0.17	0.16
2,3,4,6,7,8-HxCDF	ng/kg	0.08	0.10	0.10	0.10	0.09	<0.056	<0.06	0.11
1,2,3,4,6,7,8-HpCDF	ng/kg	0.13	0.22	0.17	0.17	0.16	0.06	0.13	0.16
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.04	0.05	<0.03	<0.04	0.05	<0.03	<0.03	<0.03
OCDF	ng/kg	<0.17	0.21	0.25	0.22	0.25	0.01	0.22	<0.06
TEQ dioxins (PCDD and PCDF) LB	ng/kg		0.14	0.11	0.05	0.09	0.01	0.02	0.05
TEQ dioxins (PCDD and PCDF) UB	ng/kg		0.39	0.29	0.33	0.31	0.29	0.27	0.32
TEQ dioxins and dioxin-like PCBs LB	ng/kg		0.31	0.29	0.07	0.09	0.03	0.05	0.09
TEQ dioxins and dioxin-like PCBs UB	ng/kg		0.55	0.48	0.35	0.31	0.31	0.30	0.36

Contribution % from PCDD/Fs	Lower		46.75	35.96	71.30	98.23	36.57	40.41	58.74
Contribution % from PCDD/Fs	Upper		70.24	61.12	93.86	97.40	93.21	89.14	89.28

Appendix 2 : Analytical data for EGGS

Sample Reference		100589	100590	112405	112404	100583	100581	100582	96860
Reporting date		14/04/2016	14/04/2016	14/04/2016	14/04/2016	12/05/2016	12/05/2016	12/05/2016	08/06/2016
Region		Ostfold og Follo	Trondheim og Omland	Sor-Rogaland, Sirdal og Flekkefjord	Sor-Rogaland, Sirdal og Flekkefjord	Trondheim og Omland	Trondheim og Omland	Trondheim og Omland	Mjøsområdet
Analyte	Unit								
PCB-105	µg/kg	21.60	110.00	163.00	39.40	22.50	120.00	18.80	0.05
PCB-114	µg/kg	1.28	5.35	9.12	3.42	1.85	5.50	1.55	<0.01
PCB-118	µg/kg	62.30	351.00	481.00	160.00	80.50	316.00	67.50	0.19
PCB-123	µg/kg	1.11	3.25	8.36	1.56	1.00	3.40	0.90	<0.01
PCB-156	µg/kg	6.58	84.60	117.00	34.80	11.80	79.60	10.60	0.02
PCB-157	µg/kg	1.52	10.30	13.50	4.98	2.30	8.95	1.75	<0.01
PCB-167	µg/kg	3.50	30.50	43.50	11.90	5.45	29.60	4.85	0.02
PCB-189	µg/kg	0.62	9.59	18.40	4.18	1.50	9.40	1.50	<0.01
PCB-77	ng/kg	3.00	2.14	5.59	1.98	2.75	2.20	1.60	7.50
PCB-81	ng/kg	0.12	0.17	<0.08	<0.08	0.20	0.25	0.15	0.98
PCB-126	ng/kg	0.37	0.82	1.18	0.45	0.65	0.60	0.60	1.84
PCB-169	ng/kg	<0.12	0.21	<0.08	0.12	0.20	<0.1	0.20	0.40
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.04	0.11	0.14	0.06	0.08	0.08	0.07	0.21
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.04	0.11	0.15	0.06	0.08	0.08	0.07	0.21
2,3,7,8-TCDD	ng/kg	<0.12	<0.12	<0.17	<0.08	0.10	<0.01	<0.01	0.05
1,2,3,7,8-PeCDD	ng/kg	<0.25	<0.21	<0.13	<0.12	<0.02	<0.02	<0.02	0.08
1,2,3,4,7,8-HxCDD	ng/kg	<0.04	<0.08	<0.04	<0.04	0.10	<0.01	<0.01	0.03
1,2,3,6,7,8-HxCDD	ng/kg	0.08	<0.08	0.08	0.08	0.20	<0.01	<0.01	0.07
1,2,3,7,8,9-HxCDD	ng/kg	0.08	<0.08	0.08	<0.04	0.20	<0.01	<0.01	0.05
1,2,3,4,6,7,8-HpCDD	ng/kg	0.21	0.29	0.38	0.29	0.25	<0.01	0.30	0.20
OCDD	ng/kg	0.78	1.11	2.14	1.03	0.55	<0.03	0.85	0.50
2,3,7,8-TCDF	ng/kg	0.08	<0.04	0.13	<0.08	0.30	<0.01	0.05	0.37
1,2,3,7,8-PeCDF	ng/kg	0.12	<0.08	0.13	0.08	0.15	0.20	<0.02	0.23
2,3,4,7,8-PeCDF	ng/kg	<0.08	0.12	0.13	0.08	<0.02	0.20	<0.02	0.30
1,2,3,4,7,8-HxCDF	ng/kg	0.17	0.08	0.08	<0.04	0.20	<0.02	0.15	0.46
1,2,3,6,7,8-HxCDF	ng/kg	0.08	0.08	0.04	<0.04	0.20	<0.02	0.15	0.20
1,2,3,7,8,9-HxCDF	ng/kg	0.17	0.12	0.08	0.12	0.10	<0.02	0.15	<0.03
2,3,4,6,7,8-HxCDF	ng/kg	0.12	<0.04	0.04	<0.04	0.20	<0.02	0.20	0.14
1,2,3,4,6,7,8-HpCDF	ng/kg	0.25	<0.08	0.13	<0.04	0.30	0.20	0.25	0.33
1,2,3,4,7,8,9-HpCDF	ng/kg	0.12	<0.08	<0.04	<0.04	0.20	<0.01	0.15	0.13
OCDF	ng/kg	0.29	0.21	0.17	<0.04	0.40	0.20	0.40	1.01
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.09	0.07	0.10	0.05	0.26	0.07	0.08	0.37
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.49	0.44	0.40	0.29	0.29	0.11	0.12	0.37
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.13	0.18	0.25	0.11	0.34	0.15	0.15	0.58
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.53	0.54	0.55	0.34	0.36	0.19	0.18	0.58

Contribution % from PCDD/Fs	Lower	68.59	39.24	41.46	47.17	77.72	46.77	52.72	63.79
Contribution % from PCDD/Fs	Upper	91.71	80.26	73.31	83.38	79.04	57.52	62.36	63.79

Appendix 2 : Analytical data for EGGS

Sample Reference		96861	96865	96701	96703	96704	96705	96869	96870
Reporting date		08/06/2016	08/06/2016	28/04/2016	28/04/2016	28/04/2016	28/04/2016	25/05/2016	25/05/2016
Region		Mjøsområdet	Mjøsområdet	Mjosomradet	Mjosomradet	Mjosomradet	Mjosomradet	Mjosomradet	Mjosomradet
Analyte	Unit								
PCB-105	µg/kg	0.01	0.01	0.06	0.01	<0.01	0.02	0.04	0.05
PCB-114	µg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-118	µg/kg	0.02	0.03	0.22	0.02	0.02	0.04	0.11	0.18
PCB-123	µg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-156	µg/kg	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	0.01	0.02
PCB-157	µg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-167	µg/kg	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.02
PCB-189	µg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-77	ng/kg	2.13	2.14	6.54	2.08	2.22	2.36	4.53	6.04
PCB-81	ng/kg	0.16	0.21	0.38	0.17	0.21	0.20	0.44	0.37
PCB-126	ng/kg	0.22	0.30	1.97	0.25	0.24	0.36	0.73	1.37
PCB-169	ng/kg	0.06	0.09	0.48	0.08	0.07	0.10	0.12	0.26
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.02	0.03	0.22	0.03	0.03	0.04	0.08	0.16
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.02	0.03	0.22	0.03	0.03	0.04	0.09	0.16
2,3,7,8-TCDD	ng/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	<0.04	0.03
1,2,3,7,8-PeCDD	ng/kg	0.03	0.02	0.05	0.05	<0.02	<0.05	0.05	0.04
1,2,3,4,7,8-HxCDD	ng/kg	<0.03	0.03	0.03	<0.02	<0.02	<0.02	<0.02	<0.04
1,2,3,6,7,8-HxCDD	ng/kg	0.04	0.03	0.07	0.04	0.03	0.04	0.05	0.07
1,2,3,7,8,9-HxCDD	ng/kg	<0.04	<0.04	<0.04	<0.04	<0.04	<0.05	<0.05	<0.04
1,2,3,4,6,7,8-HpCDD	ng/kg	0.10	0.12	0.37	0.10	0.05	0.06	0.07	0.29
OCDD	ng/kg	0.12	0.19	1.55	0.14	0.15	0.14	0.25	0.70
2,3,7,8-TCDF	ng/kg	0.12	0.15	0.45	0.16	0.12	0.13	0.33	0.40
1,2,3,7,8-PeCDF	ng/kg	0.09	0.12	0.12	0.14	0.12	0.11	0.15	0.15
2,3,4,7,8-PeCDF	ng/kg	0.07	0.10	0.16	0.09	0.10	0.08	0.10	0.16
1,2,3,4,7,8-HxCDF	ng/kg	<0.09	<0.08	<0.09	0.14	0.12	0.11	<0.1	0.14
1,2,3,6,7,8-HxCDF	ng/kg	0.06	0.05	0.05	0.08	0.08	0.05	0.04	0.07
1,2,3,7,8,9-HxCDF	ng/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	<0.04	<0.03
2,3,4,6,7,8-HxCDF	ng/kg	0.04	0.05	0.06	0.08	0.07	0.05	0.06	0.07
1,2,3,4,6,7,8-HpCDF	ng/kg	0.10	0.09	0.09	0.10	0.08	0.09	0.09	0.13
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04	<0.03
OCDF	ng/kg	0.06	0.07	0.07	0.07	0.04	0.06	0.05	0.24
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.08	0.09	0.17	0.13	0.08	0.07	0.13	0.20
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.13	0.13	0.22	0.17	0.14	0.17	0.20	0.21
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.10	0.12	0.39	0.16	0.11	0.11	0.21	0.36
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.15	0.16	0.44	0.20	0.17	0.21	0.29	0.37

Contribution % from PCDD/Fs	Lower	80.00	75.00	43.59	81.25	72.73	63.64	61.90	55.56
Contribution % from PCDD/Fs	Upper	86.67	81.25	50.00	85.00	82.35	80.95	68.97	56.76

Appendix 2 : Analytical data for EGGS

Sample Reference		96873	102283	100562	100563	100564	100570	100571	100572
Reporting date		25/05/2016	26/05/2016	23/08/2016	23/08/2016	23/08/2016	04/07/2016	04/07/2016	04/07/2016
Region		Mjosomradet	Ostfold og Follo	Trondheim og omland	Trondheim og omland	Trondheim og omland	Trondheim og omland	Trondheim og omland	Trondheim og omland
Analyte	Unit								
PCB-105	µg/kg	0.07	0.14	0.04	0.06	0.04	0.03	0.02	0.02
PCB-114	µg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-118	µg/kg	0.25	0.54	0.14	0.20	0.20	0.10	0.07	0.05
PCB-123	µg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-156	µg/kg	0.03	0.07	0.03	0.02	0.05	0.01	<0.01	<0.01
PCB-157	µg/kg	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-167	µg/kg	0.02	0.05	0.01	0.01	0.02	<0.01	<0.01	<0.01
PCB-189	µg/kg	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-77	ng/kg	5.44	10.33	2.39	5.92	5.78	2.28	2.46	4.85
PCB-81	ng/kg	0.37	0.44	0.35	0.56	0.43	0.25	0.44	0.34
PCB-126	ng/kg	1.81	3.50	1.05	1.40	0.90	0.68	0.83	0.54
PCB-169	ng/kg	0.46	0.90	0.36	0.35	0.26	0.25	0.29	0.15
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.21	0.40	0.13	0.16	0.11	0.08	0.09	0.06
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.21	0.41	0.13	0.16	0.11	0.09	0.09	0.06
2,3,7,8-TCDD	ng/kg	<0.03	0.03	0.09	0.11	0.05	0.11	0.12	<0.03
1,2,3,7,8-PeCDD	ng/kg	0.07	0.11	0.17	0.16	0.09	0.12	0.13	<0.05
1,2,3,4,7,8-HxCDD	ng/kg	0.04	<0.06	<0.06	0.12	<0.06	0.09	0.13	<0.06
1,2,3,6,7,8-HxCDD	ng/kg	0.09	0.06	0.11	0.14	0.09	0.12	0.20	<0.08
1,2,3,7,8,9-HxCDD	ng/kg	<0.04	<0.06	<0.08	<0.09	<0.08	<0.08	0.11	<0.08
1,2,3,4,6,7,8-HpCDD	ng/kg	0.55	0.19	0.24	0.21	0.23	0.21	0.22	0.15
OCDD	ng/kg	1.29	<0.19	1.19	0.62	0.55	0.49	0.62	0.46
2,3,7,8-TCDF	ng/kg	0.40	0.68	0.39	0.36	0.16	0.27	0.39	0.29
1,2,3,7,8-PeCDF	ng/kg	0.10	0.23	0.19	0.17	0.13	0.15	0.20	0.17
2,3,4,7,8-PeCDF	ng/kg	0.20	0.26	0.25	0.25	0.17	0.15	0.24	0.18
1,2,3,4,7,8-HxCDF	ng/kg	0.11	0.13	0.20	0.21	0.14	0.12	0.23	0.13
1,2,3,6,7,8-HxCDF	ng/kg	0.10	0.11	0.18	0.16	0.09	0.10	0.17	0.12
1,2,3,7,8,9-HxCDF	ng/kg	<0.03	<0.03	<0.09	<0.1	<0.09	<0.09	<0.1	<0.09
2,3,4,6,7,8-HxCDF	ng/kg	0.07	0.09	0.15	0.19	<0.09	0.12	0.14	0.12
1,2,3,4,6,7,8-HpCDF	ng/kg	0.10	0.12	0.18	0.21	<0.1	0.19	0.20	0.13
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.02	<0.02	<0.08	<0.09	<0.08	<0.08	<0.09	<0.08
OCDF	ng/kg	0.14	0.08	0.22	0.27	<0.12	0.18	0.31	<0.13
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.22	0.34	0.45	0.47	0.25	0.37	0.47	0.13
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.26	0.35	0.47	0.49	0.28	0.38	0.48	0.24
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.43	0.74	0.58	0.63	0.36	0.45	0.56	0.19
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.47	0.76	0.60	0.65	0.39	0.47	0.57	0.30

Contribution % from PCDD/Fs	Lower	51.16	45.95	77.59	74.60	69.44	82.22	83.93	68.42
Contribution % from PCDD/Fs	Upper	55.32	46.05	78.33	75.38	71.79	80.85	84.21	80.00

Appendix 2 : Analytical data for EGGS

Sample Reference		99734	99733	107377	107378	102261	93868	93870	107362
Reporting date		06/02/2017	06/02/2017	31/01/2017	31/01/2017	24/03/2017	06/02/2017	06/02/2017	23/03/2017
Region		Sør-Rogaland, Sirdal og Flekkefjord	Sør-Rogaland, Sirdal og Flekkefjord	Trondheim og omland	Trondheim og omland	Østfold og Follo	Østfold og Follo	Østfold og Follo	Trondheim og omland
Analyte	Unit								
PCB-105	µg/kg	0.05	0.11	0.02	0.02	0.01	0.01	0.03	0.16
PCB-114	µg/kg	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
PCB-118	µg/kg	0.19	0.54	0.06	0.10	0.04	0.04	0.11	0.73
PCB-123	µg/kg	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-156	µg/kg	0.05	0.21	<0.01	0.02	<0.01	<0.01	0.02	0.28
PCB-157	µg/kg	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.03
PCB-167	µg/kg	0.05	0.14	<0.01	<0.01	<0.01	<0.01	<0.01	0.12
PCB-189	µg/kg	<0.02	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.04i
PCB-77	ng/kg	4.30	4.51	3.30	3.54	2.18	1.88	2.37	4.98
PCB-81	ng/kg	0.30	0.22	0.22	0.24	0.15	0.14	0.18	0.34
PCB-126	ng/kg	0.77	1.07	0.39	0.77	0.18	0.24	0.73	1.25
PCB-169	ng/kg	0.16	0.19	0.12	0.26	0.05	0.08	0.23	0.16
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.09	0.14	0.04	0.09	0.02	0.03	0.09	0.17
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.10	0.14	0.04	0.10	0.02	0.03	0.09	0.17
2,3,7,8-TCDD	ng/kg	<0.06	<0.06	<0.02	<0.02	<0.03	<0.03	<0.04	<0.04
1,2,3,7,8-PeCDD	ng/kg	<0.03	<0.05	<0.07	<0.07	<0.04	<0.04	0.06	<0.04
1,2,3,4,7,8-HxCDD	ng/kg	<0.01	<0.01	<0.02	<0.03	<0.01	<0.01	<0.03	0.02
1,2,3,6,7,8-HxCDD	ng/kg	0.06	0.10	0.06	0.05	<0.01	<0.02	0.04	<0.03
1,2,3,7,8,9-HxCDD	ng/kg	<0.03	0.04	<0.03	<0.03	<0.03	0.03	<0.04	<0.04
1,2,3,4,6,7,8-HpCDD	ng/kg	0.23	0.20	0.15	0.11	0.10	0.21	0.12	0.10
OCDD	ng/kg	0.37	0.66	0.41	0.34	0.29	1.02	0.30	0.25
2,3,7,8-TCDF	ng/kg	0.09	0.34	0.14	0.19	0.10	0.11	0.10	0.20
1,2,3,7,8-PeCDF	ng/kg	<0.04	0.14	0.09	0.08	0.05	0.09	0.09	0.11
2,3,4,7,8-PeCDF	ng/kg	0.10	0.21	0.10	0.15	<0.08	<0.07	0.11	0.14
1,2,3,4,7,8-HxCDF	ng/kg	0.08	0.17	0.06	0.09	0.07	0.11	0.09	0.11
1,2,3,6,7,8-HxCDF	ng/kg	<0.05	0.11	0.06	0.07	0.03	0.05	0.08	<0.04
1,2,3,7,8,9-HxCDF	ng/kg	<0.01	<0.01	<0.03	<0.03	<0.01	<0.02	<0.01	<0.01
2,3,4,6,7,8-HxCDF	ng/kg	<0.02	0.14	0.06	0.07	0.03	0.05	0.08	<0.03
1,2,3,4,6,7,8-HpCDF	ng/kg	0.06	0.12	0.11	0.07	0.04	0.11	0.06	0.08
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.03	<0.03	0.03	<0.02	<0.01	<0.01	<0.01	<0.01
OCDF	ng/kg	<0.11	<0.12	0.07	0.08	0.05	0.14	0.04	0.04
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.06	0.16	0.07	0.10	0.03	0.04	0.14	0.08
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.16	0.27	0.17	0.20	0.13	0.14	0.19	0.18
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.15	0.30	0.11	0.19	0.25	0.13	0.10	0.25
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.25	0.41	0.21	0.30	0.35	0.21	0.19	0.35
Contribution % from PCDD/Fs	Lower	39.74	52.98	62.50	51.55	10.36	32.80	131.73	31.87
Contribution % from PCDD/Fs	Upper	63.49	65.53	79.44	67.57	35.80	66.50	100.00	49.72

Appendix 2 : Analytical data for EGGS

Sample Reference		107363	107364	107365	107366	98941	98942	98943	98944
Reporting date		23/03/2017	23/03/2017	02/03/2017	02/03/2017	06/04/2017	06/04/2017	06/04/2017	06/04/2017
Region		Trondheim og omland	Trondheim og omland	Trondheim og omland	Trondheim og omland	Mjøsområdet	Mjøsområdet	Mjøsområdet	Mjøsområdet
Analyte	Unit								
PCB-105	µg/kg	0.03	0.02	0.04	0.14	0.03	<0.01	<0.01	0.05
PCB-114	µg/kg	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
PCB-118	µg/kg	0.11	0.09	0.21	0.65	0.14	0.05	0.09	0.23
PCB-123	µg/kg	<0.01	<0.01	<0.01	0.02	0.01	<0.01	<0.01	0.01
PCB-156	µg/kg	0.01	0.01	0.04	0.26	0.02	<0.01	<0.01	0.03
PCB-157	µg/kg	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01
PCB-167	µg/kg	<0.01	<0.01	0.01	0.11	0.01	<0.01	<0.01	0.02
PCB-189	µg/kg	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01
PCB-77	ng/kg	4.56	3.05	4.53	4.22	4.59	2.02	1.90	5.50
PCB-81	ng/kg	0.24	0.22	0.26	0.24	0.34	0.13	0.14	0.34
PCB-126	ng/kg	0.55	0.50	0.75	1.20	0.71	0.27	0.40	1.23
PCB-169	ng/kg	0.16	0.15	0.21	0.18	0.16	0.05	<0.01	0.35
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.06	0.06	0.09	0.17	0.08	0.03	0.04	0.14
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.06	0.06	0.09	0.17	0.08	0.03	0.05	0.14
2,3,7,8-TCDD	ng/kg	<0.03	<0.03	<0.03	0.03	0.01	<0.02	<0.09	<0.08
1,2,3,7,8-PeCDD	ng/kg	<0.04	<0.04	<0.04	0.05	0.04	<0.02	<0.03	0.08
1,2,3,4,7,8-HxCDD	ng/kg	0.04	<0.01	0.02	<0.02	<0.01	<0.02	<0.08	<0.07
1,2,3,6,7,8-HxCDD	ng/kg	<0.01	0.02	<0.02	0.03	0.03	<0.03	0.09	0.08
1,2,3,7,8,9-HxCDD	ng/kg	<0.03	<0.03	<0.03	0.02	<0.02	<0.03	<0.04	0.03
1,2,3,4,6,7,8-HpCDD	ng/kg	0.07	0.10	0.18	0.10	0.21	0.13	0.16	0.31
OCDD	ng/kg	0.32	0.31	0.22	0.33	0.71	0.28	<0.8	1.58
2,3,7,8-TCDF	ng/kg	0.13	0.08	0.11	0.25	0.15	0.06	0.12	0.26
1,2,3,7,8-PeCDF	ng/kg	0.08	0.08	0.03	0.15	0.08	0.04	<0.08	0.08
2,3,4,7,8-PeCDF	ng/kg	0.09	0.08	0.08	0.22	0.10	0.06	<0.1	0.15
1,2,3,4,7,8-HxCDF	ng/kg	0.06i	0.05i	0.08	0.15	0.13	0.06	<0.08	0.14
1,2,3,6,7,8-HxCDF	ng/kg	<0.03	<0.03	<0.03	0.08	0.08	<0.02	<0.09	<0.08
1,2,3,7,8,9-HxCDF	ng/kg	<0.01	<0.01	<0.01	<0.01	<0.03	<0.03	<0.03	0.04
2,3,4,6,7,8-HxCDF	ng/kg	0.04	0.04	<0.03	0.07	0.06i	0.04i	<0.08	<0.08
1,2,3,4,6,7,8-HpCDF	ng/kg	0.07	0.09i	0.09	0.06	0.12	0.08	0.11	0.14
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.01	<0.01	<0.01	<0.02	0.02	<0.01	<0.08	<0.07
OCDF	ng/kg	0.05	0.03	<0.02	<0.07	0.14	<0.08	0.18	0.24
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.06	0.05	0.05	0.21	0.13	0.04	0.02	0.19
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.14	0.13	0.13	0.22	0.14	0.09	0.22	0.29
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.13	0.10	0.14	0.38	0.22	0.08	0.06	0.33
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.21	0.19	0.22	0.39	0.22	0.12	0.27	0.43

Contribution % from PCDD/Fs	Lower	46.40	45.19	35.25	56.35	60.19	51.95	31.75	57.58
Contribution % from PCDD/Fs	Upper	66.02	67.57	59.55	55.67	63.06	72.58	83.02	67.29

Appendix 2 : Analytical data for EGGS

Sample Reference		98945	102731	102727	99089	99101	99102	99103	99104
Reporting date		06/04/2017	24/04/2017	24/04/2017	27/04/2017	18/05/2017	18/05/2017	18/05/2017	18/05/2017
Region		Mjøsområdet	Sør-Rogaland, Sirdal og Flekkefjord	Sør-Rogaland, Sirdal og Flekkefjord	Mjøsområdet	Mjøsområdet	Mjøsområdet	Mjøsområdet	Mjøsområdet
Analyte	Unit								
PCB-105	µg/kg	<0.02	0.04	0.12	<0.01	0.07	0.04	0.08	0.06
PCB-114	µg/kg	<0.01	0.02	0.03	<0.01	<0.03	<0.02	<0.04	<0.01
PCB-118	µg/kg	0.05	0.24	0.55	0.05	0.25	0.18	0.31	0.18
PCB-123	µg/kg	<0.01	<0.01	0.02	<0.01	0.02	0.02	<0.03	<0.01
PCB-156	µg/kg	<0.01	0.05	0.19	<0.01	0.03	0.02	0.04	0.02
PCB-157	µg/kg	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB-167	µg/kg	<0.01	0.02	0.08	<0.01	0.02	<0.01	0.02	0.01
PCB-189	µg/kg	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.02	<0.01
PCB-77	ng/kg	1.52	3.43	3.53	1.81	5.81	3.16	2.71	4.82
PCB-81	ng/kg	0.16	0.25	0.23	0.12	0.41	0.24	0.24	0.33
PCB-126	ng/kg	0.30	0.73	1.19	0.28	1.50	1.18	0.92	1.13
PCB-169	ng/kg	0.14	0.22	0.21	0.06	0.32	0.33	0.26	0.22
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.03	0.09	0.16	0.03	0.17	0.14	0.11	0.13
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.03	0.09	0.16	0.03	0.18	0.14	0.12	0.13
2,3,7,8-TCDD	ng/kg	<0.08	<0.08	0.04	<0.02	0.02	0.02	<0.03	0.03
1,2,3,7,8-PeCDD	ng/kg	0.10	0.05	0.08	<0.05	0.08	0.05	<0.05	<0.05
1,2,3,4,7,8-HxCDD	ng/kg	0.09	<0.07	<0.02	<0.04	<0.04	0.04	<0.04	<0.04
1,2,3,6,7,8-HxCDD	ng/kg	<0.07	0.09	0.06	0.02	0.06	0.05	<0.03	0.08
1,2,3,7,8,9-HxCDD	ng/kg	0.05	0.03	0.05	<0.03	<0.03	0.03	<0.03	0.05
1,2,3,4,6,7,8-HpCDD	ng/kg	0.21	0.23	0.26	0.10	0.23	0.11	0.10	0.17
OCDD	ng/kg	<0.74	<0.74	0.70	0.18	0.65	0.29	0.15	0.52
2,3,7,8-TCDF	ng/kg	<0.11	<0.11	0.28	0.11	0.33	0.23	0.19	0.29
1,2,3,7,8-PeCDF	ng/kg	0.09	<0.08	0.15	0.06	0.12	0.07	0.06	0.08
2,3,4,7,8-PeCDF	ng/kg	<0.09	0.17	0.19	0.08	0.17	0.13	0.15	0.15
1,2,3,4,7,8-HxCDF	ng/kg	0.10	0.11	0.15	<0.04	0.13	0.13	0.09	0.15
1,2,3,6,7,8-HxCDF	ng/kg	0.09	0.10	0.13	<0.05	0.11	0.10	0.08	0.12
1,2,3,7,8,9-HxCDF	ng/kg	<0.03	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02	<0.02
2,3,4,6,7,8-HxCDF	ng/kg	0.10	<0.08	0.09	<0.03	0.08	0.05	<0.03	0.09
1,2,3,4,6,7,8-HpCDF	ng/kg	0.13	0.13	0.17	<0.09	0.17	0.21	0.09	0.18
1,2,3,4,7,8,9-HpCDF	ng/kg	0.07	<0.07	0.07	<0.02	0.03	0.05	<0.02	0.05
OCDF	ng/kg	0.22	<0.14	<0.13	0.03	0.16	0.19	0.04	0.21
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.15	0.14	0.26	0.04	0.23	0.18	0.08	0.16
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.28	0.25	0.27	0.13	0.24	0.18	0.18	0.22
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.18	0.23	0.42	0.07	0.40	0.32	0.19	0.29
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.31	0.34	0.43	0.16	0.42	0.32	0.30	0.35

Contribution % from PCDD/Fs	Lower	82.42	60.61	61.90	55.56	57.50	56.60	41.24	55.56
Contribution % from PCDD/Fs	Upper	89.17	73.10	62.79	79.27	57.14	56.43	60.61	63.04

Appendix 2 : Analytical data for EGGS

Sample Reference		99105	99106	99107	99108	99109	107337	107338	107339
Reporting date		18/05/2017	18/05/2017	18/05/2017	18/05/2017	18/05/2017	15/08/2017	15/08/2017	15/08/2017
Region		Mjøsområdet	Mjøsområdet	Mjøsområdet	Mjøsområdet	Mjøsområdet	Trondheim og Omland	Trondheim og Omland	Trondheim og Omland
Analyte	Unit								
PCB-105	µg/kg	0.01	0.03	0.03	0.01	0.11	0.04	0.02	<0.02
PCB-114	µg/kg	<0.01	<0.01	<0.02	<0.01	0.03	<0.01	<0.01	<0.01
PCB-118	µg/kg	0.06	0.09	0.10	0.04	0.36	0.13	0.11	<0.1
PCB-123	µg/kg	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
PCB-156	µg/kg	<0.01	0.01	0.01	<0.01	0.04	0.01	<0.02	<0.01
PCB-157	µg/kg	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
PCB-167	µg/kg	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
PCB-189	µg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.07	<0.03
PCB-77	ng/kg	1.41	3.59	1.90	2.35	5.31	3.11	4.57	2.36
PCB-81	ng/kg	0.11	0.33	0.14	0.19	0.35	0.22	0.33	0.16
PCB-126	ng/kg	0.28	0.56	<0.36	0.42	1.39	0.24	0.74	0.38
PCB-169	ng/kg	0.07	0.16	0.13	0.13	0.24	0.06	0.23	0.10
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.03	0.07	0.01	0.05	0.16	0.03	0.08	0.04
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.03	0.07	0.05	0.05	0.16	0.03	0.09	0.05
2,3,7,8-TCDD	ng/kg	<0.02	<0.02	<0.04	0.06	<0.02	<0.05	<0.05	<0.05
1,2,3,7,8-PeCDD	ng/kg	<0.06	0.06	0.05	0.07	0.07	<0.06	0.08	<0.06
1,2,3,4,7,8-HxCDD	ng/kg	<0.04	<0.04	0.03	0.03	<0.03	<0.05	0.05	<0.05
1,2,3,6,7,8-HxCDD	ng/kg	0.04	0.05	<0.05	0.05	0.05	0.03	0.10	0.05
1,2,3,7,8,9-HxCDD	ng/kg	0.04	<0.03	0.04	0.05	<0.03	0.02	0.04	0.03
1,2,3,4,6,7,8-HpCDD	ng/kg	0.11	0.14	0.15	0.18	0.18	<0.16	0.24	<0.15
OCDD	ng/kg	0.22	0.37	0.24	0.30	0.56	0.35	0.43	0.25
2,3,7,8-TCDF	ng/kg	0.10	0.12	0.13	0.19	0.26	0.21	0.26	<0.14
1,2,3,7,8-PeCDF	ng/kg	0.05	0.09	0.06	0.08	0.13	0.15	0.17	0.13
2,3,4,7,8-PeCDF	ng/kg	0.04	0.13	0.07	0.09	0.17	0.13	0.21	0.12
1,2,3,4,7,8-HxCDF	ng/kg	<0.04	0.12	0.12	0.11	0.15	0.12	0.22	0.11
1,2,3,6,7,8-HxCDF	ng/kg	<0.04	0.09	0.09	0.07	0.07	<0.09	0.15	<0.09
1,2,3,7,8,9-HxCDF	ng/kg	<0.03	<0.04	0.04	0.04	<0.02	<0.06	<0.07	<0.06
2,3,4,6,7,8-HxCDF	ng/kg	0.07	0.05	0.09	0.09	0.09	0.09	0.16	<0.07
1,2,3,4,6,7,8-HpCDF	ng/kg	<0.09	0.11	0.15	0.18	0.14	0.14	0.20	0.19
1,2,3,4,7,8,9-HpCDF	ng/kg	0.02	<0.01	0.03	0.06	0.03	<0.08	<0.09	<0.08
OCDF	ng/kg	0.10	0.15	0.14	<0.13	0.11	<0.15	<0.16	<0.15
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.04	0.15	0.13	0.23	0.19	0.09	0.25	0.06
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.14	0.18	0.18	0.23	0.22	0.23	0.31	0.21
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.07	0.22	0.14	0.28	0.35	0.12	0.33	0.10
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.17	0.25	0.23	0.28	0.38	0.26	0.40	0.26

Contribution % from PCDD/Fs	Lower	55.56	68.18	92.86	82.14	54.29	74.80	75.76	60.00
Contribution % from PCDD/Fs	Upper	80.46	72.00	78.26	82.14	57.89	87.21	77.50	80.77

Appendix 2 : Analytical data for EGGS

Sample Reference		107345	107347	107346	93850	102069	102068	93830	113632
Reporting date		03/07/2017	03/07/2017	03/07/2017	23/05/2017	10/05/2017	10/04/2017	02/11/2017	25/10/2017
Region		Trondheim og Omland	Trondheim og Omland	Trondheim og Omland	Østfold og Follo	Agder	Agder	Østfold og Follo	Mjøsområdet
Analyte	Unit								
PCB-105	µg/kg	0.04	0.04	0.04	0.04	0.14	0.11	<0.03	<0.03
PCB-114	µg/kg	<0.01	<0.01	<0.01	<0.02	0.01	<0.01	<0.01	<0.01
PCB-118	µg/kg	0.19	0.13	0.13	0.11	0.47	0.49	0.16	0.04
PCB-123	µg/kg	<0.01	<0.01	<0.01	0.01	<0.01	<0.02	<0.01	<0.01
PCB-156	µg/kg	0.04	<0.02	<0.02	<0.01	0.16	0.11	0.03	<0.01
PCB-157	µg/kg	<0.01	<0.01	<0.01	<0.01	0.02	<0.04	<0.01	<0.01
PCB-167	µg/kg	0.02	0.01	<0.01	<0.01	0.06	0.06	0.01	<0.01
PCB-189	µg/kg	<0.08	<0.06	<0.07	<0.01	<0.13	<0.26	<0.01	<0.02
PCB-77	ng/kg	3.76	3.61	3.39	2.71	17.53	20.50	3.25	2.52
PCB-81	ng/kg	0.31	0.28	0.27	0.22	1.11	1.37	0.28	0.28
PCB-126	ng/kg	0.64	1.30	0.72	0.36	3.70	4.48	0.96	0.31
PCB-169	ng/kg	0.19	0.37	0.21	<0.08	0.73	0.84	0.30	<0.11
TOTAL TEQ Dioxin-like PCB LB	ng/kg	0.08	0.15	0.08	0.05	0.42	0.50	0.12	0.03
TOTAL TEQ Dioxin-like PCB UB	ng/kg	0.08	0.15	0.09	0.05	0.42	0.51	0.12	0.04
2,3,7,8-TCDD	ng/kg	<0.05	<0.05	<0.05	<0.03	0.09	0.13	<0.05	<0.12
1,2,3,7,8-PeCDD	ng/kg	<0.06	<0.07	<0.07	<0.01	<0.1	<0.13	<0.05	<0.12
1,2,3,4,7,8-HxCDD	ng/kg	<0.05	<0.05	<0.05	0.01	0.09	0.13	<0.06	0.06
1,2,3,6,7,8-HxCDD	ng/kg	<0.04	0.04	0.05	<0.02	0.17	0.20	<0.07	<0.11
1,2,3,7,8,9-HxCDD	ng/kg	0.11	0.02	<0.02	0.01	<0.1	<0.1	<0.05	<0.12
1,2,3,4,6,7,8-HpCDD	ng/kg	0.19	<0.18	<0.18	0.10	0.85	0.81	0.12	<0.28
OCDD	ng/kg	0.45	0.37	0.32	0.24	1.66	1.55	0.23	0.47
2,3,7,8-TCDF	ng/kg	0.14	0.21	0.20	0.16	0.92	1.02	0.29	0.19
1,2,3,7,8-PeCDF	ng/kg	0.10	0.09	0.12	0.08	0.38	0.64	0.11	<0.19
2,3,4,7,8-PeCDF	ng/kg	0.16	0.13	0.13	0.07	0.67	<0.86	0.12	<0.13
1,2,3,4,7,8-HxCDF	ng/kg	0.13	0.13	0.09	0.08	0.64	0.69	0.10	<0.16
1,2,3,6,7,8-HxCDF	ng/kg	<0.09	<0.10	<0.10	0.07	0.40	0.59	0.05	0.18
1,2,3,7,8,9-HxCDF	ng/kg	<0.06	<0.07	<0.07	<0.02	<0.28	<0.41	<0.04	<0.12
2,3,4,6,7,8-HxCDF	ng/kg	<0.07	<0.08	<0.08	0.05	<0.41	<0.61	<0.09	<0.16
1,2,3,4,6,7,8-HpCDF	ng/kg	0.13	0.15	0.12	0.19	0.62	0.79	<0.12	0.24
1,2,3,4,7,8,9-HpCDF	ng/kg	<0.08	<0.09	<0.09	<0.04	<0.12	0.15	<0.02	<0.16
OCDF	ng/kg	<0.15	<0.17	<0.17	0.17	0.60	<0.8	<0.47	<0.31
TEQ dioxins (PCDD and PCDF) LB	ng/kg	0.09	0.08	0.08	0.06	0.54	0.43	0.08	0.05
TEQ dioxins (PCDD and PCDF) UB	ng/kg	0.23	0.24	0.23	0.11	0.72	0.93	0.22	0.40
TEQ dioxins and dioxin-like PCBs LB	ng/kg	0.17	0.23	0.17	0.11	0.96	0.93	0.20	0.08
TEQ dioxins and dioxin-like PCBs UB	ng/kg	0.31	0.39	0.32	0.16	1.14	1.44	0.34	0.43

Contribution % from PCDD/Fs	Lower	52.94	34.78	47.06	57.14	56.49	46.09	40.82	55.56
Contribution % from PCDD/Fs	Upper	74.19	61.54	71.88	70.06	63.16	64.45	65.09	92.63