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## FLUORINATED CHEMICALS IN FOOD

### Summary

Retail samples of a variety of foods on sale in the UK were analysed for a range of fluorinated chemicals, including perfluorooctane sulphonate (PFOS) and perfluorooctanoic acid (PFOA). The results of this survey do not indicate any concern regarding human health from dietary exposure to these chemicals.

### Key Facts

- PFOS, PFOA and related fluorinated chemicals were analysed in individual retail samples of fish, offal, meat, eggs, milk, dairy products, bread, cereals, popcorn, vegetables and jams.
- None of the chemicals was detected in almost three quarters of the samples, including all meat samples except offal.
- PFOS was the chemical detected most frequently and usually at the highest concentrations, especially in fish, liver and kidney samples. The two highest concentrations of PFOS were in smoked eel and whitebait. PFOS was not detected in any samples of meat, potatoes, potato products, popcorn or other cereals, vegetable oils or fish oil dietary supplements.
- Perfluorooctane sulphonamide (PFOSA) was the next most frequently detected chemical, but only in fish and shellfish. The highest concentrations were found in two whitebait samples.
- PFOA was detected only in one sample of whitebait, six of crab and three of liver, all at low concentrations.
- Using the results for foods included in this survey, the estimated average adult dietary intakes from the diet in 2007 were 0.01 microgram/kg bodyweight/day for PFOS and 0.01 microgram/kg bodyweight/day for PFOA (*upper bound* figures).

The corresponding high level adult dietary intakes were 0.02 and 0.02 microgram/kg bodyweight/day respectively. These are well below the Tolerable Daily Intakes (TDIs) recently set by the European Food Safety Authority of 0.15 and 1.5 microgram/kg bodyweight/day for PFOS and PFOA respectively.

- The survey results do not raise any toxicological concerns.

## **Background**

PFOS belongs to a group of fluorinated chemicals often referred to as perfluoroalkyl substances (PFAS). Other chemicals in this group are homologues of PFOS and derivatives such as perfluorooctanesulphonyl fluoride (POSF), amines, amides, carboxylates and perfluorooctane sulphonamide (PFOSA). PFOA includes the anion and salts of perfluorooctanoic acid. PFOS salts are a component of fire-fighting foam concentrates and PFOA is primarily used as an emulsifier in industrial applications, for example in the production of fluoropolymers such as polytetrafluoroethylene (PTFE). These chemicals have been imported into but not manufactured in the UK. They are very resistant to both chemical and biological degradation and are therefore persistent in the environment. Further information on the chemicals can be found in Food Survey Information Sheet No 11/06.<sup>1</sup>

Recently PFOS has been designated as a Persistent Organic Pollutant under the Stockholm Convention.<sup>2</sup> This designation requires that usage must be phased out, but some uses are allowed to continue until suitable alternative products are available.

PFOS and PFOA tend to bind to certain proteins rather than to bioconcentrate in fat, but they have some potential to bioaccumulate in the food chain. Accordingly, they are more likely to be found in the blood and liver rather than the fatty components of foods. There have been relatively few reported occurrences of PFOS and even fewer of PFOA in food, although there have been some recent surveys, many of which have been of the blood and liver of fish.<sup>3-12</sup> However, PFOS has also been detected occasionally in milk, ground beef,<sup>13-14</sup> (3M, de Voogt, 2008) eggs,<sup>15</sup> (Wang, 2008) and potato products<sup>16</sup> and PFOA in eggs,<sup>15</sup> (Yan, 2008) bread, apples and beans,<sup>13</sup> potato products<sup>16</sup> and in microwaveable popcorn bags.<sup>17</sup> Cooking has little effect on the concentrations.<sup>18</sup> Both chemicals have been detected in human milk.<sup>19-20</sup> (So + Bernsmann, 2008). Other PFAS appear only to have been analysed in the liver of cattle, chicken and pigs in a Japanese study of farm

animals in which PFOS and PFOA were also analysed.<sup>21</sup> There is evidence that chemicals related to PFOS are accumulated into the food chain to a greater extent than chemicals related to PFOA.<sup>22</sup> (Conder, 2008) Dietary intakes of PFOS and PFOA have been estimated in Germany by means of duplicate diet samples (Fromme, 2007),<sup>23</sup> and in Canada by means of Total Diet samples (Tittlemeyer, 2007) and for the Inuit population, by retail foods.<sup>24,25</sup>

The Agency previously carried out a survey of the 2004 Total Diet Study (TDS) samples for fluorinated organic chemicals in food in the UK.<sup>1</sup> The Total Diet Study is a model of the typical UK diet, and further information can be found in Food Survey Information Sheet No 38/03.<sup>26</sup> None of the chemicals was detected in either the fish or offals food groups but several, including both PFOS and PFOA, were detected in the potatoes food group. PFOS was also detected in the eggs, sugar & preserves and canned vegetables food groups.<sup>1</sup>

This survey was carried out to:

- investigate more fully which foodstuffs contain these chemicals,
- enable previous estimates of dietary intakes of these chemicals by UK consumers to be improved
- to provide data for use in any future EU negotiations

and in response to the suggestion from the scientific advisory Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment (COT) that further data on the occurrence of these chemicals in food should be obtained.

### **Methodology**

The sampling plan for the survey was drawn up by Ventress Technical, who also purchased the samples.<sup>27</sup> The plan covered a range of foodstuffs including fish, shellfish, meat, offal, eggs, milk, dairy products, potatoes and potato products, vegetables, vegetable oils, fish oil dietary supplements, bread, cereals, and popcorn. Sampling was weighted towards those types of food which were found in the 2004 TDS to contribute most to dietary intakes of the chemicals (potatoes and potato products) and those in which it was anticipated that the chemicals might be present on the basis of literature reports (fish, liver, potato products, popcorn) or their presence at low concentrations in the relevant TDS food group (potatoes, vegetables).

## *Analysis*

Samples were analysed by Food and Environment Research Agency (formerly the Central Science Laboratory (CSL)) using high pressure liquid chromatography-mass spectrometry following extraction and cleanup using the method of Taniyasu.<sup>28</sup> Full details of the analytical methodology are about to be published<sup>29</sup> and can be found in the contractor's final report for the survey.<sup>30</sup> The compounds measured are listed in Table 1. The inclusion of fluorinated chemicals other than PFOS and PFOA was limited by the availability of internal analytical standards.

For all types of sample the edible portions were analysed. In the case of fresh sprats and whitebait the whole fish were analysed, but for other species the head, bones, skin and gut were removed. Vegetables were washed and/or peeled according to normal culinary practice.

## **Results**

This report presents a summary of the *upper bound* results for PFOS and PFOA, and both the *upper* and *lower bound* results for the sum of all the PFAS analysed. (Tables 2a-2c). The concept of *upper* and *lower bound* is explained in Food Survey Information Sheet No **38/03**.<sup>26</sup> Full details of the results of each of the individual PFAS analysed can be found in Annex 1 and in the contractor's final report for the work.<sup>30</sup> Brand names are included in Annex 2.

In most of the samples none of the fluorinated chemicals was present at concentrations above the limit of quantification (LOQ - Limit of quantification, lowest content of the analyte which can be measured with reasonable statistical certainty).

PFOS was the most frequently detected chemical, and where detected it was usually the chemical present at the highest concentrations. PFOS was detected at the highest concentrations in oily fish samples, especially in one sample of smoked eel and two each of whitebait, and in crab, in liver samples, and at lower concentrations in white fish, some kidney samples and in one egg sample. In the majority of samples it was not found above the LOQ. PFOSA was detected in whitebait (which contained the highest concentration), sprats, sardines and crab. PFOA was detected only in one sample of whitebait, six of crab and three of liver, all at low concentrations. The other fluorinated chemicals measured were detected only occasionally (Table 1), but each chemical was detected in at least one

food sample. Six fluorinated compounds were detected in one of the crab samples and five in one of the whitebait samples, in both cases including PFOS, PFOA and PFOSA. None of the chemicals was detected in any of the samples of either farmed or wild salmon.

Dietary intakes of PFOS, PFOA and PFOSA were estimated by applying average concentrations of the chemicals found in the oily fish, white fish, shellfish, liver, kidney, meat, milk and milk products, cereals, popcorn, jams, potatoes and vegetables samples to all samples of the relevant food type. These dietary intake estimates do not take account of the food types that were not included in the survey and cannot therefore be described as 'total' dietary intakes. However, the dietary staples (bread, milk and potatoes) and food groups that were anticipated to make the highest contributions to dietary intakes (fish and offal) as well as meat and vegetables were included. Tables 3a and 3b show the dietary intakes (*upper and lower bound*) of PFOS and PFOA by consumers of various age groups, estimated using food consumption data from various dietary surveys.<sup>31-34</sup>

The estimated *upper bound* average dietary intakes of fluorinated chemicals (Tables 3a and 3b) by adults from the diet in 2007 were 0.01 microgram/kg bodyweight per day for PFOS and 0.01 microgram/kg bodyweight per day for PFOA. The corresponding estimated high level (97.5 percentile) intakes were 0.02 and 0.02 microgram/kg bodyweight per day. The concepts of average and high level dietary intakes, are explained in Food Survey Information Sheet No 38.<sup>26</sup> Despite the concentrations of PFOS being higher in fish and offal than those of PFOA, the intakes round to the same values due to the relatively low consumption of these food types by most age groups. Dietary intakes have also been estimated specifically for consumers eating portions of smoked eel, whitebait and crab with the highest concentrations of PFOS found in the survey and portions of sprats, whitebait and crab with the highest concentrations of PFOSA (Tables 4 and 5).

### **Interpretation**

Due to improvements to the analytical methodology, the LOQs in this survey were mostly lower than the limit of determination (LOD - The lowest concentration of a chemical that is measurable with confidence by the analytical method used) achieved in the 2004 TDS survey. The higher LOD value probably explains why PFOS was not detected in the offals food group in the 2004 TDS, although it was detected in the offal samples in this survey.<sup>1</sup>

Because the quantities and relative proportions of foods making up the TDS are largely based on consumption data, the 2004 TDS fish group contained a higher proportion of white than oily fish. In addition, it did not contain any carp, whitebait or eels (the species with the highest concentrations found in the current survey) because consumption of these species is relatively low. This may also explain to some extent the chemicals were not detected in the fish food group. The results show that PFOS was detected mainly in the fish and offal samples, which is in line with findings in other countries. However the chemicals were not detected in any potato or potato product samples in contrast to the detection of several chemicals in the potatoes TDS food group in the earlier survey<sup>1</sup> and in the literature.<sup>16</sup> The reason for this difference is unclear and cannot be determined from this work.

The estimated dietary intakes of PFOA from the diet in 2007 are well within the TDI of 1.5 microgram/kg bodyweight set by the COT<sup>35</sup> and EFSA.<sup>36</sup> Similarly, the estimated intakes of PFOS are well below their TDIs of 0.3 and 0.15 microgram/kg bodyweight respectively established by the COT<sup>37</sup> and EFSA.<sup>36</sup> Although there are very few toxicological data on the chemicals other than PFOS and PFOA the very low concentrations found and the small number of foods in which they were detected result in estimated dietary intakes that are below thresholds of concern.<sup>38</sup> The intakes of PFOS and PFOA are also well within the TDIs when consuming four weekly portions (the maximum rate of oily fish consumption advised by the Agency)<sup>39,40</sup> of the oily fish with the highest concentrations of PFOS (smoked eel and whitebait) in combination with the rest of the diet. Since most oily fish contained much lower concentrations of PFOS and PFOA than whitebait and eel, it is unlikely that even high level consumers of oily fish would exceed the TDI.

## **Conclusion**

The COT noted the results of the 2004 TDS survey and considered that there was considerable uncertainty in intakes, since the majority of food groups did not contain PFOS or PFOA at concentrations above LOQs.<sup>35,37</sup> The new survey results help to reduce the uncertainty in the intake assessment and do not raise any toxicological concerns.

## **Summary of Units**

kg	a kilogram (kg) is one thousand grams (g)
microgram	one millionth of a gram

microgram/kg bw/day      nanograms per kilogram of bodyweight per day; equivalent to parts per million million (parts per trillion) by weight.

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**Table 1: Fluorinated chemicals measured and number of concentrations exceeding the LOQ**

<b>Chemical</b>	<b>Abbreviation</b>	<b>Number &gt; LOQ</b>
Perfluorohexanoic acid	PFHxA	3
Perfluoroheptanoic acid	PFHpA	3
Perfluorooctanoic acid	PFOA	10
Perfluorononanoic acid	PFNA	7
Perfluorodecanoic acid	PFDeA	1
Perfluoroundecanoic acid	PFUnA	5
Perfluorododecanoic acid	PFDoA	2
Perfluorobutane sulphonate	PFBS	3
Perfluorohexane sulphonate	PFHxS	2
Perfluorooctane sulphonate	PFOS	65
Perfluorooctanesulphonylamide	PFOSA	20

Table 2a: Concentrations (microgram/kg fresh weight) of PFOS, PFOA, PFAS & PFOSA in fish & shellfish - summary of results

Species (No of samples)	PFOS		PFOA		PFAS (lower bound)		PFAS (upper bound)		PFOSA	
	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range
Eel (fresh) (3)	1.30	<1-2	<1	-	0.67	0-2	11	11-12	<1	-
Eel (smoked) (3)	20	<1-59	<1	-	21	0-63	31	11-71	<1	-
Herring (4)	1.00	<1-1	<1	-	1.00	0-3	12	11-13	<1	-
Mackerel (4)	1.20	<1-2	<1	-	1.50	0-3	11	11-12	<1	-
Atlantic Salmon (farmed) (5)	<1	-	<1	-	0	-	11	-	<1	-
Atlantic Salmon (wild) (2)	<1	-	<1	-	0	-	11	-	<1	-
Alaskan salmon (wild) (1)	<1	-	<1	-	0	-	11	-	<1	-
Sardines (6)	2.00	1-3	<1	-	5.51	1-7	13	11-15	2.19	1-3
Sprats (3)	3.00	1-4	<1	-	5.33	3-8	14	12-17	3.33	2-4
Trout (farmed) (4)	1.00	<1-1	<1	-	0.50	0-1	11	-	<1	-
Whitebait (6)	15	<1-40	1.3	<1-5	28	8-62	36	17-68	10	1-27
Carp (6)	5.50	<1-8	<1	-	5.33	0-8	16	11-18	<1	-
<b>All oily fish (47)</b>	<b>4.77</b>	<b>&lt;1-59</b>	<b>1.07</b>	<b>-</b>	<b>6.70</b>	<b>0-63</b>	<b>17</b>	<b>11-71</b>	<b>2.47</b>	<b>1-27</b>
Cod (4)	1.50	<1-2	<1	-	1.5	0-4	12	11-13	<1	-
Haddock (4)	1.00	<1-1	<1	-	1.3	1-2	11	-	<1	-
Plaice(2)	1.00	<1,1	<1	-	0.5	0-1	11	-	<1	-
Sole (2)	<1	<1,1	<1	-	0	-	11	-	<1	-
<b>All whitefish (12)</b>	<b>1.2</b>	<b>&lt;1-2</b>	<b>&lt;1</b>	<b>-</b>	<b>0.83</b>	<b>0-4</b>	<b>11</b>	<b>11-13</b>	<b>1.08</b>	<b>1-2</b>
Crab (6)	6.33	2-13	5.50	4-8	16	11-20	22	18-28	1.67	1-3
Crayfish (1)	<1	-	<1	-	2.00	-	12	12	<1	-
Langoustine (1)	<1	-	<1	-	1.00	-	11	11	<1	-
Pacific oysters (2)	2.50*	1-10*	<1	-	0	-	17*	11-47*	<1	-
Prawns (2)	<1	<1,1	<1	-	0.50	0,1	11	11	<1	-
<b>All shellfish (12)</b>	<b>4.42</b>	<b>1-13</b>	<b>3.25</b>	<b>1-8</b>	<b>8.17</b>	<b>0-20</b>	<b>20</b>	<b>11-47</b>	<b>1.33</b>	<b>1-3</b>

Note: \* Means and ranges affected by one or more higher than usual LOQs.

Table 2b: Concentrations (microgram/kg fresh weight) of PFOS, PFOA, PFAS and PFOSA in offals - summary of results

Food (No of samples)	PFOS		PFOA		PFAS (lower bound)		PFAS (upper bound)		PFOSA	
	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range
Chicken liver (2)	<1	-	<1	-	0	-	16	11,20	<1	-
Chicken liver pate (1)	<1	-	<1	-	0	-	11	-	<1	-
Duck liver pate (1)	<1	-	<1	-	0	-			<1	-
Lambs' liver (7)	2.57	<1-5	<1	-	2.57	0-5	13	11-15	<1	-
Ox liver (5)	1.80	<1-5	<1	-	1.40	0-5	12	11-15	<1	-
Pigs' liver (5)	2.20	<1-4	1.20	1-2	2.20	0-6	12	11-15	<1	-
Venison liver (4)	5.00	1-10	1.50	1-3	6.00	1-14	16	11-22	<1	-
<b>All liver (25)</b>	<b>2.48</b>	<b>1-10</b>	<b>1.12</b>	<b>1-3</b>	<b>2.4</b>	<b>0-14</b>	<b>13</b>	<b>11-22</b>	<b>&lt;1</b>	<b>-</b>
Lambs' kidney (4)	1.25	1-2	<1	-	0.75	0-2	11	11-12	<1	-
Ox kidney (4)	1.75	<1-3	<1	-	1.50	0-3	12	11-13	<1	-
Pigs' kidney (4)	1.58	<1-4	<1	-	0.67	0-1	11	-	<1	-
<b>All kidney (12)</b>	<b>1.36</b>	<b>1-3</b>	<b>&lt;1</b>	<b>-</b>	<b>1.33</b>	<b>0-5</b>	<b>12</b>	<b>11-14</b>	<b>&lt;1</b>	<b>-</b>
Lambs' heart (2)	<1	-	<1	-	0	-	11	-	<1	-
Black pudding (2)	<1	-	<1	-	0	-	11	-	<1	-

**Table 2c: Concentrations (ug/kg fresh weight) of PFOS, PFOA, PFAS and PFOSA in other foods - summary of results**

Food (No of samples)	PFOS		PFOA		PFAS (lower bound)		PFAS (upper bound)		PFOSA	
	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range
Bread (4)	<1	-	<1	-	0	-	11	-	<1	-
Cereals (4)	<1	-	<1	-	0	-	11	-	<1	-
Popcorn (4)	<1	-	<1	-	0.75	0-2	11	11-12	<1	-
Cheese (10)	<1.90*	<1-<10*	<1	-	0	-	15*	11-47*	<1	-
Milk (11)	<1	-	<1	-	0	-	11	11-12	<1	-
Eggs (12)	<1	<1-1	<1	-	0.08	0-2	11	-	<1	-
Fish oil supplements (4)	<1	-	<1	-	0	-	11	-	<1	-
Vegetable oils (6)	<1	-	<1	-	0	-	11	-	<1	-
Jams (6)	<1	-	<1	-	0	-	11	-	<1	-
Meat (not offal) (16)	<1	-	<1	-	0	-	11	-	<1	-
Potatoes & products (21)	<1	-	<1	-	0.05	0-1	11	-	<1	-
Vegetables (42)	<1	-	<1	-	0.05	0-2	11	11-12	<1	-

Note: \* Means and ranges affected by one or more higher than usual LOQs.

Table 3a: Estimated average total dietary intakes (microgram/kg bodyweight/day) of fluorinated chemicals by consumers of different age ranges from the diet in 2007-08

Age group	Chemical:	Estimated average adult dietary intakes (microgram/kg bodyweight/day) of fluorinated chemicals from the diet in 2007-08							
		PFOS		PFOA		PFOSA		PFAS	
		<i>Upper</i>	<i>Lower</i>	<i>Upper</i>	<i>Lower</i>	<i>Upper</i>	<i>Lower</i>	<i>Upper</i>	<i>Lower</i>
<b>Senior citizens - living at home</b>		0.009	0.0009	0.008	<0.00005	0.008	0.0003	0.09	0.001
<b>Senior citizens - in old peoples' homes</b>		0.008	0.0004	0.007	<0.00005	0.007	0.0001	0.08	0.0007
<b>Adults</b>		0.01	0.001	0.01	<0.00005	0.01	0.0004	0.1	0.002
<b>Schoolchildren:</b>									
<b>age - 4-6 years</b>		0.02	0.001	0.02	<0.00005	0.02	0.0003	0.3	0.002
<b>age - 7-10 years</b>		0.02	0.0008	0.02	<0.00005	0.02	0.0003	0.2	0.001
<b>age - 11-14 years</b>		0.01	0.0005	0.01	<0.00005	0.01	0.0002	0.1	0.001
<b>age - 15-18 years</b>		0.01	0.0005	0.009	<0.00005	0.009	0.0002	0.1	0.001
<b>Toddlers:</b>									
<b>age 1.5-2.5</b>		0.04	0.0008	0.04	<0.00005	0.04	0.0002	0.4	0.001
<b>age 2.5-3.5</b>		0.03	0.001	0.03	<0.00005	0.03	0.0003	0.4	0.002
<b>age 3.5-4.5</b>		0.03	0.0009	0.03	<0.00005	0.03	0.0003	0.3	0.002

**Notes:** Dietary intakes were estimated using consumption data from the elderly survey,<sup>31</sup> new adults survey,<sup>32</sup> young persons survey<sup>33</sup> and toddlers survey.<sup>34</sup>  
 For abbreviations used for the individual fluorinated chemicals, see Table 1.  
 The estimates for PFAS are *upper* and *lower bound*.

**Table 3b: Estimated high level total dietary intakes (microgram/kg bodyweight/day) of fluorinated chemicals by consumers of different age ranges from the diet in 2007-08**

Age group Chemical:	Estimated average high level dietary intakes (microgram/kg bodyweight/day) of fluorinated chemicals from the diet in 2007-08							
	PFOS		PFOA		PFOSA		PFAS	
	<i>Upper</i>	<i>Lower</i>	<i>Upper</i>	<i>Lower</i>	<i>Upper</i>	<i>Lower</i>	<i>Upper</i>	<i>Lower</i>
<b>Senior citizens - living at home</b>	0.02	0.004	0.02	0.0002	0.02	0.002	0.2	0.007
<b>Senior citizens - in old peoples' homes</b>	0.02	0.003	0.02	0.0001	0.02	0.001	0.2	0.004
<b>Adults</b>	0.02	0.006	0.02	0.0002	0.02	0.002	0.2	0.009
<b>Schoolchildren:</b>								
<b>age - 4-6 years</b>	0.05	0.006	0.04	0.0002	0.05	0.002	0.5	0.01
<b>age - 7-10 years</b>	0.03	0.004	0.03	0.0001	0.03	0.002	0.3	0.006
<b>age - 11-14 years</b>	0.02	0.003	0.02	0.0001	0.02	0.001	0.2	0.004
<b>age - 15-18 years</b>	0.02	0.003	0.02	0.0001	0.02	0.001	0.2	0.006
<b>Toddlers:</b>								
<b>age 1.5-2.5</b>	0.08	0.005	0.08	0.0001	0.08	0.001	0.9	0.007
<b>age 2.5-3.5</b>	0.08	0.007	0.08	0.0002	0.08	0.002	0.8	0.01
<b>age 3.5-4.5</b>	0.06	0.005	0.06	0.0002	0.06	0.002	0.6	0.008

**Notes:** Dietary intakes were estimated using consumption data from the elderly survey,<sup>31</sup> new adults survey,<sup>32</sup> young persons survey<sup>33</sup> and toddlers survey.<sup>34</sup>  
 For abbreviations used for the individual fluorinated chemicals, see Table 1.  
 The estimates for PFAS are *upper* and *lower bound*.

**Table 4: Intakes (microgram/kg bodyweight/day) of PFOS via selected fish (2007-08) and the rest of the diet**

<b>Sample No</b>	<b>15508</b>	<b>16151</b>	<b>16176</b>	<b>16190</b>
Intake (ug/kg bw/day) from non-fish part of the diet	0.01			
<b>Species</b>	<b>Smoked eel</b>	<b>Smoked eel</b>	<b>Whitebait</b>	<b>Whitebait</b>
Concentration in fish (mg/kg fresh weight)	0.06	0.001	0.04	0.005
fish portion size (gram)	70	70	70	70
Daily intake from one weekly portion of fish	0.01	0.0002	0.007	0.001
Total	0.02	0.01	0.02	0.01
Daily intake from two weekly portions of fish	0.02	0.0003	0.01	0.002
Total	0.03	0.01	0.02	0.01
Daily intake from three weekly portions of fish	0.03	0.0005	0.02	0.003
Total	0.04	0.01	0.03	0.01
Daily intake from four weekly portions of fish	0.04	0.0007	0.03	0.003
Total	0.05	0.01	0.04	0.01

Note: These intakes are derived from the samples of the two species with the highest and the lowest reported PFOS concentrations.

**Table 5: Intakes (microgram/kg bodyweight/day) of PFOSA via selected fish (2007-08) and the rest of the diet**

<b>Sample No</b>	<b>15566</b>	<b>15567</b>	<b>15565</b>	<b>16190</b>	<b>16175</b>	<b>15393</b>
Intake (ug/kg bw/day) from non-fish part of the diet (a)	0.01					
<b>Species</b>	<b>Sprats</b>	<b>Sprats</b>	<b>Whitebait</b>	<b>Whitebait</b>	<b>Crab (whole)</b>	<b>Dressed Crab</b>
Concentration in fish (mg/kg fresh weight)	0.004	0.002	<b>0.03</b>	0.003	0.003	0.001
fish portion size (gram) (d)	70	70	70	70	70	70
Daily intake from one weekly portion of fish	0.0007	0.0003	<b>0.005</b>	0.0005	0.0005	0.0002
Total	0.01	0.01	0.01	0.01	0.01	0.01
Daily intake from two weekly portions of fish	0.001	0.0007	<b>0.009</b>	0.001	0.001	0.0003
Total	0.01	0.01	0.02	0.01	0.01	0.01
Daily intake from three weekly portions of fish	0.002	0.001	<b>0.01</b>	0.002	0.002	0.0005
Total	0.01	0.01	0.02	0.01	0.01	0.01
Daily intake from four weekly portions of fish	0.003	0.001	<b>0.02</b>	0.002	0.002	0.0007
Total	0.01	0.01	0.03	0.01	0.01	0.01

Note: These intakes are derived from the samples of the three species with the highest and the lowest reported PFOSA concentrations.

Concentrations (microgram/kg fresh weight) of fluorinated chemicals in individual samples

Annex 1

Sample No	Product	Concentrations (microgram/kg fresh weight)										
		PFHxA	PFHp A	PFOA	PFNA	PFDeA	PFUn A	PFDo A	PFBS	PFHxS	PFOS	PFOS A
<i>Oily fish</i>												
15554	Carp	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15563	Carp	<1	<1	<1	<1	<1	<1	<1	<1	<1	8	<1
16141	Fresh carp ( <i>cyprinus carpio</i> )	<1	<1	<1	<1	<1	<1	<1	<1	<1	6	<1
16153	Mirror carp	<1	<1	<1	<1	<1	<1	<1	<1	<1	8	<1
16147	Common carp	<1	<1	<1	<1	<1	<1	<1	<1	<1	6	<1
16191	Carp	<1	<1	<1	<1	<1	<1	<1	<1	<1	4	<1
15654	Eel (wild)	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1
16146	Traditional jellied eels	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16150	Jellied eels	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15508	Smoked eel	<1	<1	<1	<1	2	2	<1	<1	<1	59	<1
16187	Smoked eel	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16151	Smoked eel	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
15426	Herring	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15450	Herring	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16186	Herring	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16189	Herring	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
15369	Mackerel	2	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
15397	Mackerel	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	1
16184	Whole mackerel	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16166	Whole Cornish mackerel	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15398	Alaskan salmon (wild)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15315	Salmon (farmed)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15452	Salmon (farmed)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16162	Salmon (farmed)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16159	Salmon (farmed)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16169	Salmon (farmed)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15511	Salmon (wild)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

15564	Salmon (wild)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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Concentrations (microgram/kg fresh weight) of fluorinated chemicals in individual samples (continued)

Annex 1

Sample No	Product	Concentrations (microgram/kg fresh weight)										
		PFHxA	PFHpA	PFOA	PFNA	PFDeA	PFUnA	PFDoA	PFBS	PFHxS	PFOS	PFOS A
16149	Cornish sardines	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
16185	Sardines	<1	<1	<1	<1	<1	2	<1	<1	<1	3	2
15512	Sardines	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	3
15516	Sardines	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	2
16192	Sardines	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	1
16250	Sardines	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	1
15566	Sprats	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	4
15567	Sprats	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	2
16148	Frozen sprats	<1	<1	<1	<1	<1	<1	<1	<1	<1	4	4
15314	Trout	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
15391	Trout	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
16160	Trout	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16158	Organic trout	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15565	Whitebait	7	<1	<1	<1	<1	<1	<1	<1	<1	15	27
15555	Whitebait	<1	<1	<1	<1	<1	<1	<1	<1	<1	9	6
16167	Whitebait	<1	<1	<1	<1	<1	<1	<1	<1	<1	9	7
16176	Whitebait	<1	<1	5	<1	<1	2	<1	<1	1	40	14
16154	Whitebait	<1	<1	<1	<1	<1	<1	<1	<1	<1	9	7
16190	Whitebait	<1	<1	<1	<1	<1	<1	<1	<1	<1	5	3
<i>White fish</i>												
15404	Cod	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15451	Cod	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1
16142	Cod loin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16156	Bideford cod	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	2
15424	Haddock	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
15453	Haddock	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16140	Haddock portions	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
16161	Haddock fillet	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
15427	Plaice	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
15499	Plaice	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15403	Lemon sole	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

15498	Dover sole	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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Concentrations (microgram/kg fresh weight) of fluorinated chemicals in individual samples (continued)

Annex 1

Sample No	Product	Concentrations (microgram/kg fresh weight)										
		PFHxA	PFHpA	PFOA	PFNA	PFDeA	PFUnA	PFDoA	PFBS	PFHxS	PFOS	PFOS A
<i>Shellfish</i>												
15377	Dressed crab	<1	<1	4	1	<1	<1	<1	<1	<1	4	2
15393	Dressed crab	<1	<1	8	2	<1	<1	<1	<1	<1	4	1
16175	Crab (whole)	<1	<1	5	1	<1	1	1	<1	<1	2	3
16155	Brown crab (whole)	<1	<1	6	3	<1	<1	<1	<1	<1	3	2
16179	Cromer crab (dressed)	<1	<1	4	1	<1	1	<1	<1	2	12	<1
16152	Spider crab (whole)	<1	<1	6	1	<1	<1	<1	<1	<1	13	<1
15562	Crayfish	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1
15514	Languoistine	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15375	Prawns	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15423	Prawns	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
15517	Pacific oysters	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15515	Pacific oysters	<10	1	<1	<1	<1	<1	<1	<10	<10	<10	<1
<i>Liver</i>												
15534	Chicken liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15529	Chicken liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15582	Chicken liver pate	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15558	Duck liver pate	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15429	Lambs liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	4	<1
15496	Lambs liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1
15560	Lambs liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1
15313	Lambs liver	<1	<1	1	<1	<1	<1	<1	<1	<1	1	<1
16168	Lambs liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	<1
16173	Lambs liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16143	Lambs liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	5	<1
15395	Ox liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	5	<1
15557	Ox Liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
16157	Beef liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16163	Halal beef liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16174	Ox liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1

Concentrations (microgram/kg fresh weight) of fluorinated chemicals in individual samples (continued)

Annex 1

Sample No	Product	Concentrations (microgram/kg fresh weight)										
		PFHxA	PFHpA	PFOA	PFNA	PFDeA	PFUnA	PFDoA	PFBS	PFHxS	PFOS	PFOS A
15530	British pigs sliced liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
15527	Pigs liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	4	<1
16180	Pigs liver	<1	<1	2	<1	<1	<1	<1	<1	<1	4	<1
16182	Pigs liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16188	Pigs liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15500	Venison liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	7	<1
16171	Wild roe deer liver	<1	<1	3	1	<1	<1	<1	<1	<1	10	<1
16172	Farmed red deer liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1
16165	Wild venison liver	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
<i>Kidney</i>												
15501	Lambs kidney	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15526	Lambs kidney	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16181	Lambs kidney	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1
16164	Lambs kidney	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
15376	Ox kidney	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	<1
15396	Ox kidney	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1
16144	Beef kidney	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
16177	Ox kidney	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15553	Organic pigs kidney	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
15579	Pigs kidney	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
16178	Pigs kidney	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16183	Pigs kidney (outdoor reared)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Other offal</i>												
15402	Black pudding	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15442	Black pudding	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15316	Lambs hearts	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15394	Lambs hearts	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Meat &amp; meat products</i>												
15317	Beef Steak	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15443	Rump steak for braising	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Concentrations (microgram/kg fresh weight) of fluorinated chemicals in individual samples (continued)

Annex 1

		Concentrations (microgram/kg fresh weight)										
15400	Scotch beef quarterpounders	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15378	Boneless shoulder of lamb	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15444	Shoulder of lamb	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15320	Boneless leg of pork	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15422	British pork boneless leg roast	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15373	Sausages natural casings	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15322	Lincolnshire sausages	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16170	Cumberland pork sausages	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15430	Venison fillet	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15445	Venison haugh joints	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15528	Fresh chicken legs	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15580	Boneless chicken thighs	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15379	Turkey breast	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15421	British turkey breast joint	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Milk</i>												
15374	Organic whole milk	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15392	Organic whole milk	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15440	Fresh whole milk	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
15494	Whole milk	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15525	Whole mik	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
15524	Whole milk	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15559	Fresh goats milk	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15428	Fresh full cream goats milk	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15583	Sheeps milk powder	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
15513	Sheep's milk	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15556	Raw sheep milk	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Cheese</i>												
15493	Brie	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15425	Brie	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15323	Cheddar	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15390	Cheddar	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15401	Cheese spread	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15510	Duddleswell	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Concentrations (microgram/kg fresh weight) of fluorinated chemicals in individual samples (continued)

Annex 1

Sample No	Product	Concentrations (microgram/kg fresh weight)										
		PFHxA	PFHpA	PFOA	PFNA	PFDeA	PFUnA	PFDoA	PFBS	PFHxS	PFOS	PFOS A
<i>Cheese</i>												
15362	Goats cheese	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15349	Goats cheese	<1	<1	<1	<1	<10	<10	<10	<1	<1	<10	<1
15495	Sheeps cheese	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Eggs</i>												
15321	Caged hen eggs	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15380	Caged hen eggs	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15574	Free range hen eggs	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15351	Free range hen eggs	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15532	Free range hen eggs	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15454	Free range hen eggs	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15366	Free range organic hen eggs	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15420	Free range organic hen eggs	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15507	Free range organic hen eggs	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15506	Free range organic hen eggs	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
15389	Duck eggs	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15487	Duck eggs	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Fish oil dietary supplements</i>												
15342	Cod liver oil	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15486	Cod liver oil	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15356	Salmon oil	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15578	Tuna oil	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Vegetable oils</i>												
15328	Corn oil	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15575	Oil of hemp seed	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15347	Olive oil	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15406	Olive oil	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15503	Pure sunflower oil + Vitamin E	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

15441	Sunflower oil	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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Concentrations (microgram/kg fresh weight) of fluorinated chemicals in individual samples (continued)

Annex 1

Sample No	Product	Concentrations (microgram/kg fresh weight)										
		PFHxA	PFHpA	PFOA	PFNA	PFDeA	PFUnA	PFDoA	PFBS	PFHxS	PFOS	PFOS A
<i>Potatoes &amp; potato products</i>												
15325	New potatoes	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1
15533	New potatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15417	New potatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15350	Potatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15385	Potatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15492	Potatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15521	Potatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15326	Potatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15359	Potatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15446	Potatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15346	Jersey potatoes (canned)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15576	Jersey new potatoes (canned)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15519	New potatoes (canned)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15561	Chips	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15399	Crispy roast potatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15388	Crisps	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
15405	Cheese and onion crisps	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15364	Fries	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15409	Mini loops	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
15488	Pringles	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15497	Waffles	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Vegetables</i>												
15365	Broad beans	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15319	Broad beans	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15318	String beans	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15414	Runner beans	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15382	Beetroot	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15490	Beetroot	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

15372	Broccoli	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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**Concentrations (microgram/kg fresh weight) of fluorinated chemicals in individual samples (continued)**

**Annex 1**

Sample No	Product	Concentrations (microgram/kg fresh weight)										
		PFHxA	PFHpA	PFOA	PFNA	PFDeA	PFUnA	PFDoA	PFBS	PFHxS	PFOS	PFOS A
<i>Vegetables (continued)</i>												
15448	Broccoli	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15381	Cabbage	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15416	Spring greens	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15327	Carrots	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15386	Carrots	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15312	Cauliflower	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15413	Cauliflower	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15491	Celeriac	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15571	Celeriac	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15387	Leeks	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15449	Leeks	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15348	Red onions	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15568	Onions	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15368	Parsnips	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15570	Parsnips	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15415	Spinach	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15569	Spinach	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15358	Swede	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15383	Swede	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15573	Sweet potatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15581	Sweet potatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15371	Tomatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15572	Jersey tomatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15384	Cherry tomatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15447	Baby turnips	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15489	Baby turnips	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15360	Watercress	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Concentrations (microgram/kg fresh weight) of fluorinated chemicals in individual samples (continued)

Annex 1

Sample No	Product	Concentrations (microgram/kg fresh weight)										
		PFHxA	PFHp A	PFOA	PFNA	PFDeA	PFUn A	PFDo A	PFBS	PFHxS	PFOS	PFOS A
<i>Canned vegetables</i>												
15531	Broad beans	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15577	Broad beans	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15311	Mushy Peas	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15520	Marrowfat processed peas	<1	<1	<1	<1	<1	<1	<1	<b>2</b>	<1	<1	<1
15329	Sweetcorn	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15410	Sweetcorn	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15411	Tomatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15523	Tomatoes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Bread</i>												
15522	White bread	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15361	White bread	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15418	Wholemeal bread	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15324	Wholemeal bread	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Cereals</i>												
15344	Oats	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15408	Oats	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15439	Oatmeal	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15505	Oatmeal	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15330	Popcorn	<1	<1	<1	<1	<1	<1	<1	<b>2</b>	<1	<1	<1
15343	Popcorn	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15367	Popcorn	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15407	Popcorn	<1	<b>1</b>	<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Jams</i>												
15419	Blackcurrant coulis	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15438	Blackcurrant jam	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15504	Raspberry coulis	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

15370	Raspberry jam	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15345	Strawberry jam	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15357	Strawberry jam	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
1	15314	S07-013309	Morrisons R. Trout	Morrison's Fishmonger	Morrison's, Bitteswell Road, Lutterworth, LE17 4EZ	11/07/07	13/07/07	Morrison's Fishmonger	
2	15391	S07-013357	Tesco, Welsh Whole R. Trout	Tesco Fish Counter	Tesco Extra, Western Avenue, Gabalfa, Cardiff, CF14 3AT	24/07/07	25/07/07	Tesco Fish Counter	8001 24-07 11:45 AM
3	15554	S07-013460	Mirror carp	C J Newnes	C J Newnes, Shop 10 Billingsgate Market, Trafalgar Way, London, E14 5ST	18/08/07		C J Newnes	
4	15563	S07-013481	Carp	A A Lyons	A A Lyons, Stand I1 Billingsgate Market, Trafalgar Way, London, E14 5ST	18/08/07		A A Lyons	
5	15315	S07-013310	Morrisons Organic Salmon Scottish	Morrison's	Morrison's, Bitteswell Road, Lutterworth, LE17 4EZ	11/07/07	14/07/07	Morrison's	
6	15452	S07-013420	Farmed Salmon Fillet	Alexander Crawford	Alexander Crawford, 11 Well Street, Paisley, PA1 2SS	01/08/07		Alexander Crawford	
7	15511	S07-013456	Wild Atlantic Salmon	The Chelsea Fishmonger	The Chelsea Fishmonger, 10 Cale Street, Chelsea, London, SW3 3QU	11/08/07		The Chelsea Fishmonger	

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
8	15564	S07-013482	Wild Salmon	Wren & Hines	Wren & Hines, Stand E6 Billingsgate Market, Trafalgar Way, London, E14 5ST	18/08/07		Wren & Hines	
9	15398	S07-013356	Tesco Wild Alaskan Salmon	Tesco Fish Counter	Tesco Extra, Western Avenue, Gabalfa, Cardiff, CF14 3AT	24/07/07	25/07/07	Tesco Fish Counter	8001 24-07 05:14
10	15508	S07-013454	Smoked Eel	Maldon Oysters	Maldon Oysters Stall, Farmers Market, Duke of York Square, London, SW6 4LY	11/08/07		Maldon Oysters	
11	15654	S07-013506	Wild English Eels	Dutch Eel Company	Dutch Eel Company Ltd, The Hall Farm Cottage, Glebe Road, Great Carlton, Nr Louth, Lincs, LN11 8JX	22/09/07		Dutch Eel Company	
12	15403	S07-013341	Eastwood Lemon sole	Eastwoods	Eastwoods, 5 Centenary Market Hall, Rotherham, S65 1EJ	28/07/07		Eastwoods	
13	15498	S07-013434	Dover Sole	Miller's Farm Fish Stall	Miller's Farm Fish Stall, Kilmington Cross, Kilmington, Axminster, Devon, EX13 7RD	08/08/07		Miller's Farm Fish Stall	
15	15427	S07-013400	Waitrose Plaice fillets	Waitrose	Waitrose, Sheep Street, Cirencester, GL7 1SZ	31/07/07	01/06/08	Waitrose	L7190N 07:29
16	15499	S07-013435	Plaice Fillets	Miller's Farm Fish Stall	Miller's Farm Fish Stall, Kilmington Cross, Kilmington, Axminster, Devon, EX13 7RD	08/08/07		Miller's Farm Fish Stall	
17	15404	S07-013342	Eastwood Cod	Eastwoods	Eastwoods, 5 Centenary Market Hall, Rotherham, S65 1EJ	28/07/07		Eastwoods	
18	15451	S07-013419	Cod	Alan Beveridge	Alan Beveridge, 144 Fenwick Road, Glasgow, G46 6XW	31/07/07		Alan Beveridge	

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
19	15424	S07-013397	Youngs Haddock Fillets	Young's	Asda, Thamesdown Drive, Swindon, SN25 4BG	31/07/07	01/06/08	Young's	L07178K
20	15453	S07-013421	Haddock	Alexander Crawford	Alexander Crawford, 11 Well Street, Paisley, PA1 2SS	01/08/07		Alexander Crawford	
21	15566	S07-013483	Sprats	J Bennett Jnr	J Bennett Jnr, Shop 9 Billingsgate Market, Trafalgar Way, London, E14 5ST	18/08/07		J Bennett Jnr	
22	15567	S07-013479	English Sprats	Barton & Hart	Barton & Hart, Stand H6 Billingsgate Market, Trafalgar Way, London, E14 5ST	18/08/07		Barton & Hart	
23	15565	S07-013480	Whitebait	J Bennett Jnr	J Bennett Jnr, Shop 9 Billingsgate Market, Trafalgar Way, London, E14 5ST	18/08/07		J Bennett Jnr	
24	15555	S07-013461	Whitebait (Sprattus) ocean caught	Ocean Catch	John Koch, Shop 12 Billingsgate Market, Trafalgar Way, London, E14 5ST	18/08/07	01/06/09	Ocean Catch	Date of production 01 06 07
25	15426	S07-013399	Waitrose Whole Herring	Waitrose Wet Fish Counter	Waitrose, Sheep Street, Cirencester, GL7 1SZ	31/07/07		Waitrose Wet Fish Counter	3122 31-07-07
26	15450	S07-013418	Herring	Alan Beveridge	Alan Beveridge, 144 Fenwick Road, Glasgow, G46 6XW	31/07/07		Alan Beveridge	
27	15369	S07-013371	Crystal Waters Mackerel	Crystal Waters	Crystal Waters, Market stall at Newmarket Saturday market, Newmarket, Suffolk	21/07/07		Crystal Waters	
28	15397	S07-013355	Whole Mackerel Fishmongers Cardiff	E Ashton	E Ashton, Stall 200 Central Market, Cardiff, CF10 1AU	24/07/07		E Ashton	

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
29	15516	S07-013446	Waitrose Cornish Sardines	Waitrose Wet Fish Counter	Waitrose, 380-394 North End Road, Fulham, London, SW6 1LX	11/08/07	30/09/08	Waitrose Wet Fish Counter	Date sold 11-08-07 3068 Supplier 416 Production date L7135N
30	15512	S07-013447	Fishworks Cornish Sardines	Fish Works	Fish Works, 212 Fulham Road, London, SW10 9PJ	11/08/07		Fish Works	
31	15377	S07-013380	Dressed Crab	Fish Box Foods	Market stall at Buttermarket Saturday market, Bury St Edmunds, Suffolk	21/07/07		Fish Box Foods	
32	15393	S07-013354	Dressed Crab	E Ashton	E Ashton, Stall 200 Central Market, Cardiff, CF10 1AU	24/07/07	15/08/07	E Ashton	
33	15514	S07-013457	Youngs Langoustine Fillets	Young's	Fish Works, 212 Fulham Road, London, SW10 9PJ	11/08/07	12/08/07	Young's	
34	15562	S07-013462	Crayfish	Barton & Hart	Barton & Hart, Stand H6 Billingsgate Market, Trafalgar Way, London, E14 5ST	18/08/07		Barton & Hart	
35	15375	S07-013378	Crystal Water whole shell-on prawns	Crystal Waters	Crystal Waters, Market stall at Newmarket Saturday market, Newmarket, Suffolk	21/07/07		Crystal Waters	
36	15423	S07-013396	ASDA North Atlantic Prawns	Asda	Asda, Thamesdown Drive, Swindon, SN25 4BG	30/07/07	02/08/07	Asda	U03038 L7193 08:26 x 1 08:27 x 2
37	15517	S07-013455	Pacific Oysters	Maldon Oysters	Maldon Oysters Stall, Farmers Market, Duke of York Square, London, SW6 4LY	11/08/07		Maldon Oysters	

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
38	15515	S07-013458	Fishworks Pacific Oysters	Fish Works	Fish Works, 212 Fulham Road, London, SW10 9PJ	11/08/07		Fish Works	
39	15342	S07-013326	Boots Cod Liver Oil	Boots	Boots, Unit 7 Fulham Broadway, London, SW6 1BW	14/07/07	01/12/08	Boots	1N
40	15486	S07-013404	Valupak Cod Liver Oil Capsules	Valupak	Vantage, 19 -21 Howard Street, Rotherham, S65 1JQ	28/07/07	31/06/2009	Valupak	MFD 06 2006 L06994
41	15356	S07-013327	Holland & Barrett Salmon Oil Caps	Holland & Barrett	Holland & Barrett, 2 - 10 Jerdan Place, Fulham, London, SW6 1BH	14/07/07	01/11/10	Holland & Barrett	363887 04 HB4461
42	15578	S07-013501	Wellcene Health-Tuna cap	Wellcene Health	Wellcene Health website www.wellcene.co.uk, 5A Queens Street, Huddersfield Road, Honley, Holmfirth, HD9 6QZ	20/08/07	01/05/09	Wellcene Health	044
43	15575	S07-013496	Brahams oil of Cold-Pressed Hemp seed	Braham & Murray	Asda, Whinbush Way, Darlington, County Durham, DL1 3RB	19/08/07	30/04/08	Braham & Murray	7115
44	15347	S07-013333	Sainsbury's Olive Oil	Sainsbury's	Sainsbury's Central, Unit 17 Fulham Broadway, London, SW6 1BW	14/07/07	01/05/08	Sainsbury's	L.7143
45	15406	S07-013428	Napolins Olive Oil	Napolina	Morrison's, Poplar Way, Catcliffe, Rotherham, S60 5TR	28/07/07	01/09/08	Napolina	L7079 5 0922
46	15328	S07-013323	Mazola Corn Oil	Mazola	Morrison's, Bitteswell Road, Lutterworth, LE17 4EZ	11/07/07	01/06/08	Mazola	L7156 10 0918
47	15503	S07-013437	Flora Pure Sunflower Oil + Vitamin E	Flora	Somerfield, 88 - 90 High Street, Honiton, EX14 1JW	08/08/07	01/04/08	Flora	195 04:07
48	15441	S07-013409	Trex Sunflower Oil	Trex	W P Tulloch, 22 Syke Crescent, Glenburn, Paisley, PA2 8EL	30/07/07	01/05/08	Trex	7135 HA 09:38

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
49	15530	S07-013474	Tesco British Pork Sliced Liver	Tesco	Tesco, Lisnagelvin Shopping Centre, Lisnagelvin Road, Londonderry, BT47 6DA	14/08/07	21/08/07	Tesco	Display until 20AUG HIL3 A38 12.27
50	15527	S07-013471	McKay Pork Liver	McKay Family Butchers	McKay Family Butchers, 154 Main Street, Dungiven, Londonderry, BT47 4LG	14/08/07	17/08/07	McKay Family Butchers	
51	15313	S07-013308	Co-op Lambs Liver	Co-op	Co-op, George Street, Lutterworth, LE17 4EE	11/07/07	16/07/07	Co-op	0.32 HIL3 ACF113
52	15429	S07-013402	Lambs Liver	Andrews Quality Meats	Andrews Quality Meats, 16 High Street, Highworth, Wiltshire, SN6 7AG	31/07/07		Andrews Quality Meats	
53	15496	S07-013433	Lambs Liver	P & J Butchers	P & J Butchers, 2 New Street, Honiton, EX14 1EY	08/08/07		P & J Butchers	
54	15560	S07-013487	ASDA Lambs Liver	Asda	Asda, Whinbush Way, Darlington, County Durham, DL1 3RB	19/08/07	25/08/07	Asda	Display until 24.08.07 HIL2 15:09
55	15534	S07-013478	Chicken Liver	Gregory's Meats	Gregory's Meats, 40 Main Street, Ballykelly, Limavady, Co Londonderry, BT49 9HS	14/08/07		Gregory's Meats	
56	15529	S07-013473	Tesco Chicken Liver	Tesco	Tesco, Lisnagelvin Shopping Centre, Lisnagelvin Road, Londonderry, BT47 6DA	14/08/07	31/05/08	Tesco	Display until end FEB 2008 A165
57	15395	S07-013351	Ox Liver	J T Morgan	J T Morgan, Stalls 44-46 Central Market, Cardiff, CF10 1AU	24/07/07		J T Morgan	
58	15557	S07-013485	Ox Liver	Eric Tennant Butchers	Eric Tennant Butchers, 11 The Rookery, Newmarket, CB8 8EQ	18/08/07		Eric Tennant Butchers	

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
59	15500	S07-013436	Venison Liver	Denham Estate	Denham Estate, Denham, Barrow, Bury St Edmunds, IP29 5EQ	09/08/07		Denham Estate	
60	15553	S07-013445	Organic pig kidney	Longwood Organic Farm	Longwood Organic Farm Shop, Icklingham Road, Tuddenham St Mary, Bury St Edmunds, Suffolk, IP28 6TB	17/08/07		Longwood Organic Farm	
61	15579	S07-013500	Pig Kidney	Powters	Powters, Wellington Street, Newmarket, CB8 0HT	21/08/07		Powters	
62	15376	S07-013379	Ox Kidney	Cherrytree Butchers	Cherrytree Butchers, 16a Buttermarket, Bury St Edmunds, IP33 1DA	21/07/07		Cherrytree Butchers	
63	15396	S07-013352	Ox Kidney	R T Perkins	R T Perkins, Stalls 15-17 Central Market, Cardiff, CF10 1AU	24/07/07		R T Perkins	
64	15501	S07-013432	Lambs Kidney	P & J Butchers	P & J Butchers, 2 New Street, Honiton, EX14 1EY	08/08/07		P & J Butchers	
65	15526	S07-013470	McKay Lambs Kidney	McKay Family Butchers	McKay Family Butchers, 154 Main Street, Dungiven, Londonderry, BT47 4LG	14/08/07	17/08/07	McKay Family Butchers	19/7
66	15316	S07-013311	Lambs Hearts	Flackie's Meat	Flackie's Meat, 24 Church Street, Lutterworth, LE17 4AW	11/07/07		Flackie's Meat	
67	15394	S07-013353	Lambs Hearts	R T Perkins	R T Perkins, Stalls 15-17 Central Market, Cardiff, CF10 1AU	24/07/07		R T Perkins	
68	15402	S07-013367	Country Park Foods Black Pudding	Country Park Foods	Jack Fulton Foods, 9 College Walk, Rotherham, S60 1QB	28/07/07	13/09/07	Country Park Foods	44 192
69	15442	S07-013410	Black Pudding	W P Tulloch	W P Tulloch, 22 Syke Crescent, Glenburn, Paisley, PA2 8EL	30/07/07		W P Tulloch	

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
70	15558	S07-013488	Asda duck liver pate	Asda	Asda, Whinbush Way, Darlington, County Durham, DL1 3RB	19/08/07	01/10/07	Asda	
71	15582	S07-013504	Castle MacLellan Chicken liver Pate	Castle MacLellan	Budgens, Cocksedge Yard, St Andrews Street, Mildenhall, IP28 7HB	21/08/07	07/10/07	Castle MacLellan	
70	15558	S07-013488	Asda duck liver pate	Asda	Asda, Whinbush Way, Darlington, County Durham, DL1 3RB	19/08/07	01/10/07	Asda	
71	15582	S07-013504	Castle MacLellan Chicken liver Pate	Castle MacLellan	Budgens, Cocksedge Yard, St Andrews Street, Mildenhall, IP28 7HB	21/08/07	07/10/07	Castle MacLellan	
70	15558	S07-013488	Asda duck liver pate	Asda	Asda, Whinbush Way, Darlington, County Durham, DL1 3RB	19/08/07	01/10/07	Asda	
71	15582	S07-013504	Castle MacLellan Chicken liver Pate	Castle MacLellan	Budgens, Cocksedge Yard, St Andrews Street, Mildenhall, IP28 7HB	21/08/07	07/10/07	Castle MacLellan	
70	15558	S07-013488	Asda duck liver pate	Asda	Asda, Whinbush Way, Darlington, County Durham, DL1 3RB	19/08/07	01/10/07	Asda	
71	15582	S07-013504	Castle MacLellan Chicken liver Pate	Castle MacLellan	Budgens, Cocksedge Yard, St Andrews Street, Mildenhall, IP28 7HB	21/08/07	07/10/07	Castle MacLellan	
72	15373	S07-013376	Newmarket Sausages Natural Casings	Musk's	Tesco, St Saviours Interchange, Bury St Edmunds, IP32 7JS	21/07/07	26/07/07	Musk's	AM
73	15322	S07-013317	Sherbourne Lincolnshire Sausages	Sherbourne	Netto, Lower Leicester Road, Lutterworth, LE17 4NF	11/07/07	17/07/07	Sherbourne	Display until 16 JUL 07
74	15378	S07-013381	Boneless shoulder of lamb	Meat Inn	Meat Inn, 3 Brentgoval Street, Bury St Edmunds, IP33 1EA	21/07/07		Meat Inn	

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
75	15444	S07-013412	Shoulder of Lamb	W P Tulloch	W P Tulloch, 22 Syke Crescent, Glenburn, Paisley, PA2 8EL	30/07/07		W P Tulloch	
76	15320	S07013315	Morrisons Boneless Leg of Pork	Morrison's	Morrison's, Bitteswell Road, Lutterworth, LE17 4EZ	11/07/07	14/07/07	Morrison's	
77	15422	S07-013395	Waitrose British Pork Boneless Leg Roast	Waitrose	Waitrose, Sheep Street, Cirencester, GL7 1SZ	30/07/07	04/08/07	Waitrose	Display until 03 AUG
78	15317	S07-013312	Morrisons B. Steak	Morrison's	Morrison's, Bitteswell Road, Lutterworth, LE17 4EZ	11/07/07	14/07/07	Morrison's	SL UK 4071 CUT UK 4071 BATCH No 50262401
79	15443	S07-013411	Rump Steak for Braising	W P Tulloch	W P Tulloch, 22 Syke Crescent, Glenburn, Paisley, PA2 8EL	30/07/07		W P Tulloch	
80	15528	S07-013472	McKay Fresh Chicken Legs	McKay Family Butchers	McKay Family Butchers, 154 Main Street, Dungiven, Londonderry, BT47 4LG	14/08/07	17/08/07	McKay Family Butchers	
81	15580	S07-013502	Boneless chicken thighs	Powers	Powers, Wellington Street, Newmarket, CB8 0HT	21/08/07		Powers	
82	15379	S07-013382	Meat Inn Turkey Breast	Meat Inn	Meat Inn, 3 Brentgovel Street, Bury St Edmunds, IP33 1EA	21/07/07		Meat Inn	
83	15421	S07-013394	Asda British Turkey Breast Joint	Asda Good For You	Asda, Thamesdown Drive, Swindon, SN25 4BG	30/07/07	05/08/07	Asda Good For You	Display until 03 AUG 20771
84	15430	S07-013403	Andrews Venison Fillet	Andrews Quality Meats	Andrews Quality Meats, 16 High Street, Highworth, Wiltshire, SN6 7AG	31/07/07	23/10/07	Andrews Quality Meats	

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
85	15445	S07-013413	Venison Haugh Joints	Charles Frazer	Charles Frazer, 30 The Avenue at Mearns, Newton Mearns, Glasgow, G77 6EY	30/07/07		Charles Frazer	
86	15400	S07-013350	Scotch beef quarterpounders	Stoddarts of Scotland	Farmfoods, 2 - 4 Howard Street, Rotherham, S60 1QU	28/07/07	01/05/08	Stoddarts of Scotland	700067
87	15374	S07-013377	Countrylife Organic whole milk	Country Life	Tesco, St Saviours Interchange, Bury St Edmunds, IP32 7JS	21/07/07	28/07/07	Country Life	B 17:55
88	15392	S07-013343	Calon Wen Organic Whole Milk	Calon Wen	Tesco Extra, Western Avenue, Gabalfa, Cardiff, CF14 3AT	23/07/07	02/08/07	Calon Wen	Display until 31 JUL
89	15440	S07-013408	Morrisons Fresh Whole Milk	Morrison's	Morrison's, Falside Road, Paisley, PA2 6JE	30/07/07	07/08/07	Morrison's	L2 (2) 09:05
90	15494	S07-013425	Yarty Valley - Whole Milk	Yarty Valley Dairies	Miller's Farm Shop, Kilmington Cross, Kilmington, Axminster, EX13 7RD	08/08/07	17/08/07	Yarty Valley Dairies	WK
91	15525	S07-013469	Strathray Whole Milk	Strathroy	Glenroe Day To Day, 2 Glenroe Park, Dungiven, Londonderry, BT47 4PE	14/08/07	21/08/07	Strathroy	
92	15524	S07-013468	Ballyrashane Whole Milk	Ballyrashane	Centra at Glenshane Tourist Services, 31 Glenshane Road, Maghera, BT46 5JZ	14/08/07	22/08/07	Ballyrashane	11 7427
93	15559	S07-013498	Delamere Dairy Fresh Goats milk	Delamere Dairy	Asda, Whinbush Way, Darlington, County Durham, DL1 3RB	19/08/07	06/09/07	Delamere Dairy	
94	15583	S07-013505	Woodlands Sheeps milk powder	Woodlands	Goodness Direct website www.goodnessdirect.co.uk, South March, Daventry, NN1 4PH	20/08/07	08/11/07	Woodlands	4 184 09:37

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
95	15513	S07-013459	Ewe tree Farm Sheep's Milk	Ewe Tree Farm Dairy	Here Organic Supermarket, Chelsea Farmer's Market 125 Sydney Street, Chelsea, London, SW3 6NR	11/08/07	31/10/07	Ewe Tree Farm Dairy	00601 G3 13:52
96	15428	S07-013401	Waitrose Fresh Full Cream Goats Milk	Waitrose	Waitrose, Sheep Street, Cirencester, GL7 1SZ	31/07/07	07/08/07	Waitrose	Display until AUG 05 1105
97	15556	S07-013484	Raw sheep milk Boydells Dairy Farm	Boydells Dairy Farm	Boydells Dairy Farm, Braintree Road, Wethersfield, Braintree, Essex, CM7 4AQ	18/08/07	14/12/07	Boydells Dairy Farm	F7225B 11:32
98	15323	S07-013318	Pilgrims Choice Cheese	Pilgrims Choice	Morrison's, Bitteswell Road, Lutterworth, LE17 4EZ	11/07/07	21/09/07	Pilgrims Choice	183 Ethel x 5 Flo x 5 Eva x 5
99	15390	S07-013344	Tesco, Welsh Medium Cheddar	Tesco	Tesco Extra, Western Avenue, Gabalfa, Cardiff, CF14 3AT	23/07/07	05/09/07	Tesco	Display until 05 AUG
100	15510	S07-013453	Waitrose Duddleswell Cheese	High Weald	Waitrose, 380-394 North End Road, Fulham, London, SW6 1LX	11/08/07		High Weald	
101	15493	S07-013438	Somerset Brie	Complete Meats	Complete Meats, 100 High Street, Honiton, EX14 1JW	08/08/07		Complete Meats	
102	15425	S07-013398	Cornish Brie Wedges	Cornish Country Larder	Waitrose, Sheep Street, Cirencester, GL7 1SZ	31/07/07	16/08/07	Cornish Country Larder	
103	15495	S07-013439	Wensleydale Sheeps Cheese	Complete Meats	Complete Meats, 100 High Street, Honiton, EX14 1JW	08/08/07		Complete Meats	Display until 17 JAN 08 198 L1 17:14

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
104	15362	S07-013362	Sainsbury Organic Goat Cheese	Sainsbury's So Organic	Sainsbury's, Bedingfield Way, Moreton Hall, Bury St Edmunds, IP32 7EJ	21/07/07	07/08/07	Sainsbury's So Organic	
105	15349	S07-013335	Somerset Goat Cheese	Capricorn	Waitrose, 380 - 394 North End Road, Fulham, London, SW6 1LX	14/07/07	16/08/07	Capricorn	Display until 03 SEP 18
106	15509	S07-013452	Marks & Spencer Medium Half Fat Cheese Slices	Marks & Spencer	Marks & Spencer, 85 Kings Road, Chelsea, London, SW3 4NX	11/08/07	31/01/08	Marks & Spencer	Date sold 11-08-07 0563
107	15401	S07-013372	Primula Cheeese Spread	Primula	Jack Fulton Foods, 9 College Walk, Rotherham, S60 1QB	28/07/07	29/10/07	Primula	
108	15574	S07-013495	Elliots Eggs Free Range	Elliott's Eggs	Asda, Whinbush Way, Darlington, County Durham, DL1 3RB	19/08/07	10/09/07	Elliott's Eggs	L08 151L 7100 13:30
109	15366	S07-013368	Tesco Free Range Eggs Organic	Tesco Organic	Tesco, St Saviours Interchange, Bury St Edmunds, IP32 7JS	21/07/07	02/08/07	Tesco Organic	59571156 08
110	15351	S07-013337	Budgens Free Range Eggs	Budgens	Budgens, 287 - 289 Whitechapel Road, London, E1 1BY	14/07/07	01/08/07	Budgens	Display until 31 JUL LH
111	15532	S07-013476	Skea Eggs Free Range	Skea Eggs	Mr Long's The Grocer, Woodburn Shopping Centre, Woodburn Park, Londonderry, BT47 5PS	14/08/07	28/08/07	Skea Eggs	Display until 03 09
112	15454	S07-013422	Scottish Free Range Eggs	Scotlay	Alexander Crawford, 11 Well Street, Paisley, PA1 2SS	01/08/07	27/08/07	Scotlay	8FT023 Producer no: 92634
113	15420	S07-013393	Farmhouse Freedom Eggs Free Range Organic	Farmhouse Freedom Eggs	Dobbies Garden World, Part Worms Farm, Siddington, Cirencester, GL7 6EU	30/07/07	17/08/07	Farmhouse Freedom Eggs	

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
114	15507	S07-013448	Barrington Park Estates Organic Free Range Eggs	Barrington Park Estate	Here Organic Supermarket, Chelsea Farmer's Market 125 Sydney Street, Chelsea, London, SW3 6NR	11/08/07	01/09/07	Barrington Park Estate	
115	15506	S07-013451	Rookery Farm Organic Free Range Eggs	Rookery Farm	Partridges, 2 - 5 Duke of York Square, Kings Road, London, SW3 4LY	11/08/07	03/09/07	Rookery Farm	Display until 21 AUG 03 0819 5758
116	15321	S07-013316	Bitteswell Browns Eggs Caged	Bitteswell Browns	G H Ratcliffe, Unit 3 Church Street, Lutterworth, LE17 4AE	11/07/07	30/07/07	Bitteswell Browns	Display until 25 JUL 1248 0B
117	15380	S07-013383	Birds big English Fresh Eggs Caged	Birds	Meat Inn, 3 Brentgovel Street, Bury St Edmunds, IP33 1EA	21/07/07	01/08/07	Birds	
118	15389	S07-013338	Tesco Free Range Duck Eggs	Tesco Finest	Tesco Extra, Western Avenue, Gabalfa, Cardiff, CF14 3AT	23/07/07	04/08/07	Tesco Finest	Display until 26 JUL B 11706 6257 D0439
119	15487	S07-013405	Free Range Duck Eggs	Miller's Farm Shop	Miller's Farm Shop, Kilmington Cross, Kilmington, Axminster, Devon, EX13 7RD	08/08/07		Miller's Farm Shop	Display until 20 AUG D210
120	15325	S07-013320	Morrisons Baby Potatoes [Maris Peer]	Morrison's The Best	Morrison's, Bitteswell Road, Lutterworth, LE17 4EZ	11/07/07		Morrison's The Best	Display until 15 JUL 0085 0954
121	15533	S07-013477	Baby New Potatoes [Charlotte]	Wilson's Country Ltd	Mr Long's The Grocer, Woodburn Shopping Centre, Woodburn Park, Londonderry, BT47 5PS	14/08/07		Wilson's Country Ltd	7167 500 A 11:04

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
122	15350	S07-013336	Somerfield White Potatoes (Osprey)	Somerfield	Somerfield, 127 - 131 Bow Road, London, E3 2AN	14/07/07		Somerfield	MD7 184 05:14
123	15385	S07-013348	Tesco Loose Potatoes	Tesco	Tesco Extra, Western Avenue, Gabalfa, Cardiff, CF14 3AT	23/07/07		Tesco	
124	15417	S07-013390	Waitrose organic baby new potatoes (Carlingford)	Waitrose Organic	Waitrose, Sheep Street, Cirencester, GL7 1SZ	30/07/07	04/08/07	Waitrose Organic	
125	15492	S07-013441	Potatoes [Marfona]	Miller's Farm Shop	Miller's Farm Shop, Kilmington Cross, Kilmington, Axminster, Devon, EX13 7RD	08/08/07		Miller's Farm Shop	
126	15521	S07-013465	Whitepark Bay McCurdy's [Queens] Potatoes	McCurdy's	Mace, Long Commons Service Station, Long Commons, Coleraine, BT52 1LJ	14/08/07		McCurdy's	TTN1 J 232 C
127	15326	S07-013321	Bartlett Rooster Potatoes (Rooster-Red)	Bartlett	Morrison's, Bitteswell Road, Lutterworth, LE17 4EZ	11/07/07		Bartlett	Display until 13 JUL R2B20919 IJ
128	15359	S07-013359	Sainsbury Baking potatoes(Harmony)	Sainsbury's	Sainsbury's, Bedingfeld Way, Moreton Hall, Bury St Edmunds, IP32 7EJ	21/07/07	29/07/07	Sainsbury's	Display until 25 JUL 03 1123 201
129	15446	S07-013414	Fresh Potatoes (Epicure)	Cunninghams of Paisley	Cunninghams of Paisley, 69 Neilston Road, Paisley, PA2 6NA	30/07/07		Cunninghams of Paisley	
130	15364	S07-013364	Sainsbury Crispy Oven Fries	Sainsbury's	Sainsbury's, Bedingfeld Way, Moreton Hall, Bury St Edmunds, IP32 7EJ	21/07/07	01/09/08	Sainsbury's	

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
131	15561	S07-013486	Asda Crispy Home Style Chips [frozen]	Asda	Asda, Whinbush Way, Darlington, County Durham, DL1 3RB	19/08/07	16/06/08	Asda	Display until 25 Aug Oldershaw s 670028 50/70mm
132	15399	S07-013366	Aunt Bessie's, Homestyle Crispy Roast	Aunt Bessie's	Mace, 2A Duncan Street, Brinsworth, Rotherham, S60 5DE	28/07/07	01/12/08	Aunt Bessie's	Display until 24 JUL D1 ABC Albert Bartlett & Son 18:31
133	15497	S07-013424	Tesco 12 Waffles	Tesco	Tesco, Salterton Road, Exmouth, EX8 2TS	08/08/07	01/01/09	Tesco	6382F AF 35K 9 (3382 AF 35K indented code)
134	15388	S07-013339	Kettle Crisps	Kettle	Tesco Extra, Western Avenue, Gabalfa, Cardiff, CF14 3AT	23/07/07	27/10/07	Kettle	TTN1 J 231 C
135	15405	S07-013440	Walkers Cheese and Onion Crisps	Walkers	Morrison's, Poplar Way, Catcliffe, Rotherham, S60 5TR	28/07/07	22/09/07	Walkers	
136	15409	S07-013430	Weightwatchers Mini Loops	WeightWatchers	Morrison's, Poplar Way, Catcliffe, Rotherham, S60 5TR	28/07/07	09/10/07	Weight-Watchers	GBL2 1 187 5155 21:09 x 2 21:10 21:11

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
137	15488	S07-013423	Mini Pringles (Original)	Pringles	Tesco, Salterton Road, Exmouth, EX8 2TS	08/08/07	10/02/08	Pringles	Display until OCT 2008 7 197 TUWS 16:42
138	15573	S07-013494	Sweet Potatoes	Asda	Asda, Whinbush Way, Darlington, County Durham, DL1 3RB	19/08/07		Asda	W 86ZW 7138 07 10:44
139	15581	S07-013503	Budgens Sweet Potatoes	Budgens	Budgens, Cocksedge Yard, St Andrews Street, Mildenhall, IP28 7HB	21/08/07		Budgens	Display until 13 JUL EX ZNW FJ G S 13
140	15327	S07-013322	Morrisons Carrots	Morrison's	Morrison's, Bitteswell Road, Lutterworth, LE17 4EZ	11/07/07		Morrison's	L:NFDJTJ3
141	15386	S07-013346	Tesco British Carrots	Tesco	Tesco Extra, Western Avenue, Gabalfa, Cardiff, CF14 3AT	23/07/07	28/07/07	Tesco	Display until 25 JUL DA
142	15368	S07-013370	Tesco British Parsnips	Tesco	Tesco, St Saviours Interchange, Bury St Edmunds, IP32 7JS	21/07/07	26/07/07	Tesco	Display until 25 JUL 6205U R M Sayer 47/57mm
143	15570	S07-013491	ASDA British Parsnips	Asda	Asda, Whinbush Way, Darlington, County Durham, DL1 3RB	19/08/07	23/08/07	Asda	Display until 22 AUG Robin Buck PLU 3212 700009

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
144	15358	S07-013358	Sainsbury Half Swede	Sainsbury's	Sainsbury's, Bedingfield Way, Moreton Hall, Bury St Edmunds, IP32 7EJ	21/07/07	24/07/07	Sainsbury's	Display until 27 JUL 07 A0283 A Line 2 1013 Robin Brunton
145	15383	S07-013347	Tesco Swede	Tesco	Tesco Extra, Western Avenue, Gabalfa, Cardiff, CF14 3AT	23/07/07	28/07/07	Tesco	
146	15491	S07-013442	Celeriac	Miller's Farm Shop	Miller's Farm Shop, Kilmington Cross, Kilmington, Axminster, Devon, EX13 7RD	08/08/07		Miller's Farm Shop	
147	15571	S07-013492	ASDA British celeriac	Asda	Asda, Whinbush Way, Darlington, County Durham, DL1 3RB	19/08/07	24/08/07	Asda	Display until 22 AUG WS08
148	15382	S07-013385	John Wedder Beetroot (bunch)	John Wedder	John Wedder, Market stall at Buttermarket Saturday market, Bury St Edmunds	21/07/07		John Wedder	Display until 03 AUG 4146 S
149	15490	S07-013444	Beetroot	Miller's Farm Shop	Miller's Farm Shop, Kilmington Cross, Kilmington, Axminster, Devon, EX13 7RD	08/08/07		Miller's Farm Shop	LK025 A05003 11:33
150	15447	S07-013415	Baby Turnips	Cunninghams of Paisley	Cunninghams of Paisley, 69 Neilston Road, Paisley, PA2 6NA	30/07/07		Cunninghams of Paisley	
151	15489	S07-013443	Baby Turnips	Miller's Farm Shop	Miller's Farm Shop, Kilmington Cross, Kilmington, Axminster, Devon, EX13 7RD	08/08/07		Miller's Farm Shop	

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
152	15318	S07-013313	String Beans	G H Ratcliffe	G H Ratcliffe, Unit 3 Church Street, Lutterworth, LE17 4AE	11/07/07		G H Ratcliffe	
153	15414	S07-013387	Asda Runner beans	Asda	Asda, Thamesdown Drive, Swindon, SN25 4BG	30/07/07	04/08/07	Asda	Display until 01 AUG S2 210 0937 C36/154
154	15365	S07-013365	Fresh Broad Beans in Pod	John Wedder	John Wedder, Market stall at Buttermarket Saturday market, Bury St Edmunds	21/07/07		John Wedder	NB 7 180 3 14:29
155	15319	S07-013314	Broad Beans	G H Ratcliffe	G H Ratcliffe, Unit 3 Church Street, Lutterworth, LE17 4AE	11/07/07		G H Ratcliffe	Display until 15 JUL R8A10709 JP
156	15381	S07-013384	John Wedder Whole Cabbage	John Wedder	John Wedder, Market stall at Buttermarket Saturday market, Bury St Edmunds	21/07/07		John Wedder	
157	15416	S07-013389	Waitrose Spring Greens	Waitrose	Waitrose, Sheep Street, Cirencester, GL7 1SZ	30/07/07	02/08/07	Waitrose	Display until 01 AUG L7 236/IH 11:25
158	15415	S07-013388	Waitrose Spinach	Waitrose	Waitrose, Sheep Street, Cirencester, GL7 1SZ	30/07/07	02/08/07	Waitrose	Display until 01 Aug PLU 9973 J12/110 BR
159	15569	S07-013490	ASDA Spinach	Asda	Asda, Whinbush Way, Darlington, County Durham, DL1 3RB	19/08/07	24/08/07	Asda	Display until 21 AUG T. H. HAMMOND UK 760003 30-50MM

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
160	15372	S07-013375	Marks & Spencer Scottish Broccoli	Marks & Spencer	Marks & Spencer, 8 The Guineas, Newmarket, Suffolk, CB8 8EG	21/07/07		Marks & Spencer	
161	15448	S07-013416	Broccoli Florets	Imrie Fruit	Imrie Fruit, 8 The Avenue at Mearns, Newton Mearns, Glasgow, G77 6AA	30/07/07		Imrie Fruit	
162	15312	S07-013307	Co-op Cauliflower	Co-op	Co-op, George Street, Lutterworth, LE17 4EE	11/07/07	15/07/07	Co-op	
163	15413	S07-013386	M&S Cauliflower	Marks & Spencer	Marks & Spencer, 81 Regent Street, Swindon, SN1 1JY	30/07/07		Marks & Spencer	Display until 02 AUG 500001
164	15387	S07-013349	Leeks	The Fruit Bowl	The Fruit Bowl, 227 Cathedral Road, Pontcanna, Cardiff, CF11 9PP	23/07/07		The Fruit Bowl	Display until 23\JUL\07 K0022 K S Coles
165	15449	S07-013417	Whole Leeks (Fresh)	Cunninghams of Paisley	Cunninghams of Paisley, 69 Neilston Road, Paisley, PA2 6NA	30/07/07		Cunninghams of Paisley	L 7043 6755 BO ASM 7083 2220
166	15348	S07-013334	Sainsbury Red Onions	Sainsbury's	Sainsbury's Central, Unit 17 Fulham Broadway, London, SW6 1BW	14/07/07	21/07/07	Sainsbury's	Display until 18 JUL 67611 1504 4
167	15568	S07-013489	Asda Onions	Asda	Asda, Whinbush Way, Darlington, County Durham, DL1 3RB	19/08/07	29/08/07	Asda	Display until 22 AUG
168	15371	S07-013374	M&S Tomatoes	Marks & Spencer	Marks & Spencer, 8 The Guineas, Newmarket, Suffolk, CB8 8EG	21/07/07		Marks & Spencer	Display until 24 JUL 1945 Angus McDonald

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
169	15572	S07-013493	Jersey Jewel Tomatoes on vine	Tesco Finest	Tesco, Fordham Road, Newmarket, CB8 7AH	21/08/07	24/08/07	Tesco Finest	
170	15384	S07-013345	Cherry Tom on the vine	Tesco	Tesco Extra, Western Avenue, Gabalfa, Cardiff, CF14 3AT	23/07/07	28/07/07	Tesco	Display until 26 JUL PP 5B 60:80 20 - 30mm HUNTAPA C
171	15360	S07-013360	Sainsbury British Watercress	Sainsbury's	Sainsbury's, Bedingfeld Way, Moreton Hall, Bury St Edmunds, IP32 7EJ	21/07/07	25/07/07	Sainsbury's	7075 D G0058 09:55
172	15311	S07-013306	Co-op Mushy Peas	Co-op	Co-op, George Street, Lutterworth, LE17 4EE	11/07/07	01/04/08	Co-op	Display until 13 JUL M197A 8390/01
174	15329	S07-013324	D'Aucy Sweetcorn (Canned Vacuum packed)	D'aucy	Morrison's, Bitteswell Road, Lutterworth, LE17 4EZ	11/07/07	09/10/09	D'aucy	W 86KW 7173 07 12:16 x 8 14:17 x 1 14:18 x 1 14:23 x 1 14:25 x 1
175	15410	S07-013426	Princes sweetcorn in brine	Princes	Jack Fulton Foods, 9 College Walk, Rotherham, S60 1QB	28/07/07	01/09/09	Princes	7172 1013
176	15411	S07-013340	Tarantella Organic Chopped Tomatoes	Tarantella	Co-op, 179 Worksop Road, Swallownest, Rotherham, S26 4WB	28/07/07	01/12/08	Tarantella	Display until 26 JUL ST01 25 - 35mm R Lewis, Wales

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
177	15523	S07-013467	Sainsburys Chopped Tomatoes	Sainsbury's	Sainsbury's, 10 Riverside Regional Centre, Dunhill Road, Coleraine, Londonderry, BT51 3AW	14/08/07	31/08/09	Sainsbury's	91HL 04 L 7158 02:26
178	15531	S07-013475	Crosse & Blackwell Broad Beans in water	Crosse & Blackwell	Mr Long's The Grocer, Woodburn Shopping Centre, Woodburn Park, Londonderry, BT47 5PS	14/08/07	01/06/11	Crosse & Blackwell	48528 2197 25-40mm
179	15577	S07-013499	Freshcan Broad Beans	Fresh Can	Costcutter (Burwell Stores), 4 North Street, Burwell, Cambs, CB25 0BA	21/08/07	31/07/08	Fresh Can	
180	15346	S07-013332	Waitrose Jersey Potatoes	Waitrose	Waitrose, 380 - 394 North End Road, Fulham, London, SW6 1LX	14/07/07	01/06/09	Waitrose	Display until 17 Jul B0546A Beds F. B. Parrish
181	15576	S07-013497	ASDA Jersey new potatoes [canned]	Asda	Asda, Whinbush Way, Darlington, County Durham, DL1 3RB	19/08/07	01/05/09	Asda	LL195 A05042 10:39
182	15519	S07-013463	Costcutter New Potatoes in water with mint	Costcutter	Costcutter at Larkhill Shopping, 171 Coleraine Road, Portstewart, BT55 7HU	14/08/07	31/01/09	Costcutter	BUN 7060W2 22:31:55
183	15344	S07-013329	Mornflake Superfast Oats	Mornflake	Iceland, 290-302 North End Road, Fulham, London, SW6 1NQ	14/07/07	01/06/08	Mornflake	X86D F M
184	15408	S07-013429	Quaker Oats organic	Quaker Oats	Morrison's, Poplar Way, Catcliffe, Rotherham, S60 5TR	28/07/07	22/03/08	Quaker Oats	140207A 0124
185	15439	S07-013407	Hamlyns Scottish Oatmeal	Hamlyns of Scotland	Morrison's, Falside Road, Paisley, PA2 6JE	30/07/07	01/12/08	Hamlyns of Scotland	L31987 14:30

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
186	15505	S07-013449	Infinity Foods Organic Oatmeal	Infinity Foods Organics	Here Organic Supermarket, Chelsea Farmer's Market 125 Sydney Street, Chelsea, London, SW3 6NR	11/08/07	30/09/07	Infinity Foods Organics	BE1 E 21:45
187	15522	S07-013466	Sunblest White Medium Sliced Bread	Sunblest	Sainsbury's, 10 Riverside Regional Centre, Dunhill Road, Coleraine, Londonderry, BT51 3AW	14/08/07	18/08/07	Sunblest	L7079.13
188	15361	S07-013361	Hovis Square White Loaf	Hovis	Sainsbury's, Bedingfeld Way, Moreton Hall, Bury St Edmunds, IP32 7EJ	21/07/07	25/07/07	Hovis	7170 GR P 06/2007
189	15418	S07-013391	Doves Farm Organic Wholemeal Bread	Doves Farm	Waitrose, Sheep Street, Cirencester, GL7 1SZ	30/07/07	02/08/07	Doves Farm	A7 173 G P3 03:37
190	15324	S07-013319	Warburtons Wholemeal Bread	Warburtons	Netto, Lower Leicester Road, Lutterworth, LE17 4NF	11/07/07	15/07/07	Warburtons	LS07 144-N
191	15330	S07-013325	Chicago Joes Toffee Popcorn	Chicago Joes	Netto, Lower Leicester Road, Lutterworth, LE17 4NF	11/07/07	24/11/07	Chicago Joes	MI002885
192	15343	S07-013328	Butterkist Pop Corn	Butterkist	Sainsbury's Central, Unit 17 Fulham Broadway, London, SW6 1BW	14/07/07	01/09/08	Butterkist	7166 P3
193	15367	S07-013369	Orville Redenbacher's Pop Corn	Orville Redenbacher's	Tesco, St Saviours Interchange, Bury St Edmunds, IP32 7JS	21/07/07	01/06/08	Orville Redenbacher's	
194	15407	S07-013427	Cinema Sweet Pop Corn	Cinema Sweet	Farmfoods, 2 - 4 Howard Street, Rotherham, S60 1QU	28/07/07	17/01/08	Cinema Sweet	079 TS1 14:33

Details of samples purchased for the survey - a) Samples purchased in 2007

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
195	15345	S07-013330	Duchy Orig. Strawberry Jam Organic	Duchy Originals	Waitrose, 380 - 394 North End Road, Fulham, London, SW6 1LX	14/07/07	01/03/09	Duchy Originals	L1767
196	15438	S07-013406	Robertsons Blackcurrant Jam	Robertson's	Jack's Key Store, 10 Well Street, Paisley, PA1 2SP	28/07/07	01/04/09	Robertson's	7016
197	15370	S07-013373	Mackays Raspberry Pres.	Mackays	Tesco, St Saviours Interchange, Bury St Edmunds, IP32 7JS	21/07/07	09/05/11	Mackays	6219 2BW3 18:00 x 3 18:01 x 2
198	15357	S07-013331	Tiptree Strawberry Conserve	Tiptree	Waitrose, 380 - 394 North End Road, Fulham, London, SW6 1LX	14/07/07	01/06/10	Tiptree	*4
199	15419	S07-013392	Waitrose Blackcurrant Coulis	Waitrose	Waitrose, Sheep Street, Cirencester, GL7 1SZ	30/07/07	31/08/07	Waitrose	7094 21:05
200	15504	S07-013450	The English Provender Co. Raspberry Coulis	The English Provender Co.	Tesco, Kennington Lane, Kennington, London, SE11 5QU	11/08/07	01/01/08	The English Provender Co.	00601 G3 13:52

Details of samples purchased for the survey - b) Samples purchased in 2008

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
1	16140	S07-013507	Haddock portions	Morrison's	Morrison's, King Street, Acton, London, W3 9LA	03/05/08	01/09/09	Morrison's	8073 18:01
2	16141	S07-013508	Fresh carp ( <i>cyprinus carpio</i> )	Morrison's	Morrison's, King Street, Acton, London, W3 9LA	03/05/08	05/05/08	Morrison's Fish-monger	
3	16153	S07-013520	Mirror carp	J Bennett, Billingsgate Ltd.	J Bennett (Billingsgate) Ltd, Shop no. 24 Billingsgate Market, Trafalgar Way, London, E14 5ST	09/05/08		J Bennett (Billingsgate) Ltd	
4	16147	S07-013514	Common carp	C J Newnes	C J Newnes, Shop 10 Billingsgate Market, Trafalgar Way, London, E14 5ST	09/05/08		C J Newnes	
5	16142	S07-013509	Cod loin	Asda Extra Special	Asda, Dolphin Way, Mercury Road, Romford, RM1 3EE	07/05/08	10/05/08	Asda Extra Special	F8122H 06:44
6	16156	S07-013523	Bideford cod	David Felce Daughter & Son	David Felce Daughter & Son at Bath's Farmers Market, Water Lane Farm, Randwick, Stroud, GL6 6EW	17/05/08		David Felce Daughter & Son	
7	16148	S07-013515	Frozen sprats	John Koch	John Koch, No. 1 Billingsgate Market, Trafalgar Way, London, E14 5ST	09/05/08		John Koch	
8	16149	S07-013516	Cornish sardines	Ocean Catch	John Koch, No. 1 Billingsgate Market, Trafalgar Way, London, E14 5ST	09/05/08	07/06/09	Ocean Catch	Production date: 07/06/2007 PED-7225
9	16185	S07-013552	Sardines	James Knight of Mayfair	James Knight of Mayfair, 67 Notting Hill Gate, London, W11 3JS	31/05/08		James Knight of Mayfair	

Details of samples purchased for the survey - b) Samples purchased in 2008

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
10	16167	S07-013534	Whitebait	Holmes whitebait	E P Fisheries, Stall 25 North End Road Market, Fulham, London, SW6 1NW	24/05/08	28/02/10	Holmes	L08628022 010 DATE PR: 28/02/2008
11	16176	S07-013543	Whitebait	Aldus	H. Boldock, 754 Chesterfield Road, Woodseats, Sheffield, S8 0SE	29/05/08	01/08/09	Aldus	FCS: 271279 Date of production: 01-08-2007
12	16154	S07-013521	Whitebait IQF	World Seafood Direct	Seahawk Marine Foods (London) Ltd, Shop no. 21 Office 71 Billingsgate Market, Trafalgar Way, London, E14 5ST	09/05/08	28/02/10	World Seafood Direct	Production date: 28/02/2008 L08628022 010
13	16158	S07-013525	Whole trout organically farmed	Sainsburys So Organic	Sainsbury's, Green Park Station, Green Park Road, Bath, BA1 2DR	17/05/08	21/05/08	Sains- bury's So Organic	
14	16160	S07-013527	2 whole rainbow trout	The Fishmonger	Aldi, 632 - 640 Kingsbury Road, London, NW9 9HN	22/05/08	01/02/09	The Fish- monger	L 8052
15	16161	S07-013528	Haddock fillet	Iceland	Iceland, Kingsbury Circle, London, NW9 9QB	22/05/08	26/04/09	Iceland	7299 EU No: 3700/02123
16	16162	S07-013529	Salmon fillets	Tesco Value, Norway	Tesco, Great Central Way, Neasden, London, NW10 0TL	22/05/08	26/05/08	Tesco Value	09:12
17	16159	S07-013526	Lochmuir Scottish salmon portions	Marks & Spencer	Marks & Spencer, 16 - 19 Stall Street, Bath, BA1 1QB	17/05/08	31/08/08	Marks & Spencer	8002 Display until JUL 08
18	16169	S07-013536	2 prime boneless salmon fillets	Youngs	Somerfield, 254 North End Road, Fulham, London, SW6 1NJ	24/05/08	29/05/08	Young's	6 17:38 x 6; 17:39 x 1

Details of samples purchased for the survey - b) Samples purchased in 2008

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
19	16184	S07-013551	Whole mackerel (gutted by fishmonger)	James Knight of Mayfair	James Knight of Mayfair, 67 Notting Hill Gate, London, W11 3JS	31/05/08		James Knight of Mayfair	
20	16166	S07-013533	Whole Cornish mackerel	E P Fisheries	E P Fisheries, Stall 25 North End Road Market, Fulham, London, SW6 1NW	24/05/08		E P Fisheries	
21	16186	S07-013553	Herring	James Knight of Mayfair	James Knight of Mayfair at Selfridges, 400 Oxford Street, London, W1A 1AB	31/05/08		James Knight of Mayfair	Date purchased 31-05-08
22	16187	S07-013554	Smoked eel	Selfridges	Selfridges, 400 Oxford Street, London, W1A 1AB	31/05/08		Selfridges	Date purchased 31-05-08
23	16146	S07-013513	Traditional jellied eels	Bradley's	Asda, Dolphin Way, Mercury Road, Romford, RM1 3EE	07/05/08	14/05/08	Bradley's	1
24	16150	S07-013517	Jellied eels	Micks Eel Supply Ltd	Mick's Eel Supply, Stand C6 Billingsgate Market, Trafalgar Way, London, E14 5ST	09/05/08	27/05/08	Mick's Eel Supply Ltd	C Factory: Cody Road, E16
25	16151	S07-013518	Smoked eel	Micks Eel Supply Ltd	Mick's Eel Supply, Stand C6 Billingsgate Market, Trafalgar Way, London, E14 5ST	09/05/08		Mick's Eel Supply Ltd	
26	16189	S08-009817	Herring	Harvey Nichols	Harvey Nichols, 67 Brompton Road, Knightsbridge, London, SW3 1DB	04/06/08		Harvey Nichols Food-market	
27	16190	S08-009818	Whitebait	Interseafish	Harvey Nichols, 67 Brompton Road, Knightsbridge, London, SW3 1DB	04/06/08	16/07/09	Intersea-fish	7197 X XXXXX XX

Details of samples purchased for the survey - b) Samples purchased in 2008

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
28	16191	S08-009819	Carp	Covent Graden Fishmongers	Covent Garden Fishmongers, 37 Turnham Green Terrace, London, W4 1RG	05/06/08		Covent Garden Fishmongers	
29	16192	S08-009820	Sardines	Whole foods Market	Whole Foods Market, 63-97 High Street Kensington, London, W8 5SE	23/06/08	24/06/08	Whole Foods Market	
30	16250	S08-013024	Sardines	Sainsbury Fishmongers	Sainsbury's, 17 - 21 Camden Road, London, NW1 9LJ	27/06/08	28/06/08	Sainsbury's Fishmonger	
31	16175	S07-013542	Crab (whole)	H. Boldock	H. Boldock, 754 Chesterfield Road, Woodseats, Sheffield, S8 0SE	29/05/08		H. Boldock	
32	16155	S07-013522	Brown crab (whole)	C & A Seafoods	C & A Seafoods, Shop F5 Billingsgate Market, Trafalgar Way, London, E14 5ST	09/05/08		C & A Seafoods	
33	16179	S07-013546	Cromer crab (dressed)	Waitrose Fishmonger	Waitrose, 1 - 3 Ecclesall Road, Sheffield, S11 8HY	29/05/08	31/05/08	Waitrose Fishmonger	FP: WE004148 Display until 30.05.08
34	16152	S07-013519	Spider crab (whole)	R & G Shellfish	R & G Shellfish, Stand G5 Billingsgate Market, Trafalgar Way, London, E14 5ST	09/05/08		R & G Shellfish	
35	16157	S07-013524	Beef liver	Kimber's Traditional Farm Produce	Kimber's Traditional Farm Produce at Bath's Farmers Market, Higher Stavordale Farm, Charlton Musgrove, Wincanton, Somerset, BA9 8HJ	17/05/08	23/05/08 12/07/08	Kimber's Traditional Farm Produce	UK3639800 12

Details of samples purchased for the survey - b) Samples purchased in 2008

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
36	16163	S07-013530	Halal beef liver	Alnoor	Alnoor, 367 North End Road, Fulham, London, SW6 1NW	24/05/08		Alnoor	
37	16174	S07-013541	Ox liver	S & M Foods	S & M Foods, 439 - 441 London Road, Sheffield, S2 4HJ	29/05/08	02/06/08	S & M Foods	
38	16180	S07-013547	Pigs liver	Park Road Butchers	Park Road Butchers, 15 Park Road, Wosbrough Bridge, Barnsley, S70 5AG	29/05/08		Park Road Butchers	
39	16182	S07-013549	Pigs liver (outdoor reared)	Grasmere Farm	Grasmere Farm at Wimbledon Farmers Market, Station Road, Deeping St James, Lincolnshire, PE6 8RQ	31/05/08		Grasmere Farm	
40	16171	S07-013538	Wild roe deer liver	Teesdale Game & Poultry	Teesdale Game & Poultry, 82E Galgate, Barnard Castle, Co. Durham, DL12 8BJ	28/05/08		Teesdale Game & Poultry	Killed 20/05/08
41	16172	S07-013539	Farmed red deer liver	Round Green Farm Venison Co	Round Green Farm Venison Company, Round Green Farm, Round Green Lane, Wosbrough, Barnsley, S75 3DR	29/05/08	05/06/08	Round Green Farm Venison Company	
42	16165	S07-013532	Wild venison liver	Parson's nose	Parson's Nose, 753 Fulham Road, Fulham, London, SW6 5UU	24/05/08		Parson's Nose	
43	16168	S07-013535	Lambs liver	Dickenson Quality Meats	Dickenson Quality Meats, 365 North End Road, Fulham, London, SW6 1NW	24/05/08		Dickenson Quality Meats	
44	16173	S07-013540	Lambs liver	S & M Foods	S & M Foods, 439 - 441 London Road, Sheffield, S2 4HJ	29/05/08	01/06/08	S & M Foods	

Details of samples purchased for the survey - b) Samples purchased in 2008

Annex 2 (continued)

Item	Sample No	LIMS	Product	Source	Retailer	Date of purchase	Best before/use by date	Brand name	Batch No
45	16143	S07-013510	Traditional lamb sliced liver	Sainsbury's	Sainsbury's, 15 The Brewery, Waterloo Road, Romford, RM1 1AU	07/05/08	08/05/08	Sainsbury's Butchery	08-05-08
46	16188	S07-013555	Irish pigs liver	ASDA	Asda, 2 - 20 Western Road, Ealing, London, NW10 7LW	03/06/08	08/06/08	Asda	Display until 07.06.08 HIL2 14:39
47	16144	S07-013511	Beef kidney	Sainsbury's	Sainsbury's, 15 The Brewery, Waterloo Road, Romford, RM1 1AU	07/05/08	08/05/08	Sainsbury's Butchery	08-05-08
48	16181	S07-013548	Lambs kidney	Park Road Butchers	Park Road Butchers, 15 Park Road, Wosbrough Bridge, Barnsley, S70 5AG	29/05/08		Park Road Butchers	
49	16164	S07-013531	Lambs kidney	Parson's nose	Parson's Nose, 753 Fulham Road, Fulham, London, SW6 5UU	24/05/08		Parson's Nose	
50	16177	S07-013544	Ox kidney	Battys Family Butchers	Battys Family Butchers, 750 Chesterfield Road, Woodseats, Sheffield, S8 0SE	29/05/08		Battys Family Butchers	
51	16178	S07-013545	Pigs kidney	Battys Family Butchers	Battys Family Butchers, 750 Chesterfield Road, Woodseats, Sheffield, S8 0SE	29/05/08		Battys Family Butchers	
52	16183	S07-013550	2 pigs kidney (outdoor reared)	Downland Produce	Downland Produce at Wimbledon Farmers Market, Unit 4 Griffon Farm, Bowden Hill, Lacock, SN15 2PP	31/05/08	04/06/08	Downland Produce	
53	16170	S07-013537	8 Cumberland pork sausages	Budgens	Budgens, 57 - 69 Parsons Green, Fulham, London, SW6 4JA	24/05/08	07/06/08	Budgens	L141 12938