

Survey of Chemical Contaminants in Wild Caught Fish, Crustaceans and Cephalopods England and Wales 2025-26

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FSA Research and Evidence

The Food Standards Agency's (FSA's) 2025–2026 England and Wales survey of contaminants in wild-caught fish, crustaceans and cephalopods is a standalone ad-hoc survey and was undertaken as a small, risk-based data gathering and horizon-scanning exercise. Its primary purpose was to assess levels of regulated contaminants, including heavy metals, dioxins and PCBs, and to gather evidence on emerging contaminants such as per- or poly- fluoroalkyl substances (PFAS) and inorganic arsenic, which have maximum levels set in the European Union (EU). The survey builds on the Food Standards Agency's evidence base for assessing risks from both established and emerging contaminants and may help to inform future policy and risk management decisions. Sampling was informed by previous survey findings and other contaminant monitoring programmes such as that in Northern Ireland (NI).

While this work was not designed as a compliance monitoring programme, the data may support food businesses in meeting regulatory requirements, including those set out in Great Britain (GB) Assimilated Regulation 1881/2006.

FSA in NI conduct an annual wild caught fishery products official control monitoring programme testing for various contaminants. Monitoring of contaminants in wild caught fishery products is undertaken to satisfy official control requirements under Regulation (EU) 2017/625. Under Windsor Framework arrangements, EU law is applicable in Northern Ireland. The sampling is risk based, reviewed annually and included in the Northern Ireland Contaminant Control Plan submitted to the EU annually.

The 2024-2025 and the 2025-26 reports provide data on the levels of PFAS and heavy metals in wild caught fish, crustaceans and molluscs sampled by FSA in NI during these time periods.

Results from Northern Ireland monitoring in [2024/25](#) and [2025/26](#).

Executive Summary

One hundred and four samples of wild caught fish, crustaceans and cephalopods were purchased from fish markets across England and Wales and analysed for the contaminants: mercury, lead, cadmium, total arsenic, inorganic arsenic and per- and polyfluoroalkyl substances (PFAS): perfluoro-n-nonanoic acid (PFNA), linear and branched perfluorohexanesulfonic acid (PFHxS), linear and branched perfluorooctanesulfonic acid (PFOS), perfluoro-n-decanoic acid (PFDA), linear perfluoro-1-butanesulfonate (PFBS), perfluoro-n-dodecanoic acid (PFDoA), perfluoro-n-heptanoic acid (PFHpA), perfluoro-n-hexanoic acid (PFHxA), perfluoro-n-pentanoic acid (PFPeA), perfluoro-n-butanoic acid (PFBA) and perfluoro-n-octanoic acid (PFOA). A sub-set of these samples (n = 20) were analysed for polyaromatic hydrocarbons (PAHs) and another sub-set (n = 20) were analysed for dioxins (2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, OCDD, 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, OCDF) and PCBs (PCB 28, PCB 52, PCB 77, PCB 81, PCB 101, PCB 105, PCB 114, PCB 118, PCB 123, PCB 126, PCB 138, PCB 153, PCB 156, PCB 157, PCB 167, PCB 169, PCB 180 and PCB 189).

Key findings include:

- Mercury was detected above the maximum level of 0.5 mg/kg in one of the bass samples at a concentration of 0.72 mg/kg
- Concentrations of all other heavy metals in the samples tested were below the GB and EU maximum levels for each species
- Concentrations of inorganic arsenic were below the European Union (EU) maximum levels for each species. There are no maximum levels set for inorganic arsenic in GB.
- Concentrations of dioxins and PCBs were below the GB and EU maximum levels for these compounds
- Concentrations of PFAS analytes (linear and branched PFOS, PFOA, PFNA and linear and branched PFHxS) were below the EU maximum levels for these compounds. Note there are currently no restrictions for these substances in fish in GB legislation

- Concentrations of PAHs were low, the GB and EU maximum levels do not apply to these products

Introduction

Fera Science Ltd (Fera) was contracted by the Food Standards Agency (FSA) to assess the occurrence levels of various contaminants in a specified number of species of wild caught fish, crustaceans and cephalopods landed in England and Wales between June 2025 and January 2026.

The surveillance work primarily functions as a knowledge gathering initiative which forms part of the FSA's evidence-base for risk management of both emerging and pre-established contaminants in wild caught fish, crustacean and cephalopod products.

Secondary to this, the dataset may supplement the responsibilities of food businesses to comply with the provisions set out in GB Assimilated Regulation 1881/2006.

Materials and Methods

Samples

Sample purchase and collection was subcontracted to HallMark Veterinary & Compliance Services. To plan the purchase and collection of samples, a list of required products was designed by the FSA to give, as far as possible, a representative sample set. Samples were allocated to species by considering popular seafood in the UK, the quantity of that species landed in each region as well as a split between species types (pelagic vs demersal, oily vs lean, predatory fish etc.); these were taken across five regions (Southeast England, Southwest England, Northeast England, Northwest England and Wales) between July 2025 and February 2026. The species to be sampled included: bass, sardines, cuttlefish, monks & anglers, crab, hake, sole, plaice, skates & rays, gurnard, dogfish, lemon sole, haddock, mackerel, bass, whiting, shrimps & prawns, sprats, lobster and nephrops. When samples of a certain species were not available, e.g. not currently being caught in UK waters, then in consultation with the FSA these samples were replaced with alternative species/sampling locations. The planned versus actual sample numbers for each species/location are provided in Appendix A. A full list of the sample details for the samples collected is given in Appendix B. On receipt at the laboratory each sample was assigned a unique laboratory reference number, and the sample details were logged into a database.

Sample Preparation

For fin fish, samples were filleted to collect edible muscle tissue and exclude skin, bones and organs except for sardines, which had the heads, tails and fins removed. For cephalopods, only the mantle meat was retained for analysis and for crustacea, only the white meat was taken to represent the sample.

The selected tissue was homogenised in a blender. Aliquots of the blended tissue were taken for each of the analyte suites: metals (including inorganic arsenic), PFAS, PAHs, and dioxins/PCBs if required. An extra portion was retained as a spare. The aliquots requiring dioxins/PCBs analysis were also freeze-dried and further homogenised in a blender. Aliquots were stored in a freezer until required for analysis except for the freeze-dried material used for dioxins/PCB analyses which was stored at room temperature.

Metals Analysis

Samples were analysed for total arsenic, cadmium, mercury and lead by following In-house Methods; FSG 461, FSG 457, FSG 463. Aliquots of homogenised test sample were digested in a mixture of concentrated nitric acid and hydrochloric acid using a high-pressure microwave system. Quantification was by inductively coupled plasma-mass spectrometry (ICP-MS) with collision cell. Quality checks included blanks, spikes and certified reference materials.

All data were corrected for reagent blank and spike recovery. The Reporting Limit was equal to, or exceeded, 10 x standard deviation of reagent blank values adjusted for dilution and sample weight. Reference material results were all satisfactory. Results are United Kingdom Accreditation Service (UKAS) accredited (International Organization for Standardization (ISO) 17025).

Dioxin and PCB Analysis

The following analytes were determined:

Dioxins - all 17, 2,3,7,8-Cl substituted PCDDs and PCDFs.

Dioxin-like PCBs - IUPAC numbers 77, 81, 105, 114, 118, 123, 126, 156, 157, 167, 169, and 189.

Non-Dioxin-like PCBs - IUPAC numbers 28, 52, 101, 138, 153, 180.

The method used for the preparation, extraction and analysis of samples has been reported previously (Fernandes *et al.* 2004; 2008) and forms part of the CEN method – EN16215:2012 for PCDD/F and PCB analysis. In brief, samples were fortified with ¹³C-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 gas chromatography-high resolution mass spectrometry (GC-HRMS).

The analysis is accredited (UKAS) to ISO 17025, with the inclusion of an in-house reference material and method blanks which were evaluated prior to the reporting of sample data and were used to determine the limits of detection. Further quality assurance measures included the successful participation in available international inter-comparison exercises such as European Union Reference Laboratory (EURL) and Food Analysis Proficiency Assurance Scheme (FAPAS) run proficiency test (PT) exercises on dioxins, dioxin-like PCBs, ICES-6 PCBs. Additionally, quality control evaluation for the accompanying data follows the criteria specified for chlorinated dioxins and PCBs (REUL, 2017).

Per and Poly Fluorinated Alkyl Substances (PFAS)

Table 1. PFAS analytes included within the analysis

Analyte Name	Abbreviation
Perfluoro-n-nonanoic acid	PFNA
Perfluorohexanesulfonic acid	PFHxS (Linear)
Perfluorohexanesulfonic acid	PFHxS (Branched)
Perfluorooctanesulfonic acid	PFOS (Linear)
Perfluorooctanesulfonic acid	PFOS (Branched)
Perfluoro-n-decanoic acid	PFDA
Perfluoro-1-butanefulfonate	PFBS (Linear)
Perfluoro-n-dodecanoic acid	PFDoA
Perfluoro-n-heptanoic acid	PFHpA
Perfluoro-n-hexanoic acid	PFHxA
Perfluoro-n-pentanoic acid	PFPeA
Perfluoro-n-butyric acid	PFBA
Perfluoro-n-octanoic acid	PFOA

Aliquots of homogenised test samples were spiked with isotope standards (internal standards) and extracted using alkalised methanol. The resulting solvent extracts were solvent exchanged into potassium hydroxide and passed through WAX SPE columns. WAX columns allow for the retention of both short and longer chain PFAS analytes due to the ionic exchange and reverse phase properties. Non-specific interferences were retained on the column whilst PFAS analytes were eluted using ammonia in methanol.

Samples were concentrated and reconstituted in 50:50 methanol: water and analysed by UPLC-MS/MS and quantified against calibration standards of known concentrations of the PFAS. The methodology is accredited under flexible scope with validated competence to ISO method 17025.6.5 Inorganic Arsenic Analysis

Analysis was carried out by HPLC-ICP-MS, based on CEN FprEN 16802 – Foodstuffs – Determination of elements and their chemical species – Determination of inorganic arsenic in foodstuffs of marine and plant origin by anion-exchange HPLC-ICP-MS. Aliquots of homogenised test samples were extracted with a mixture of nitric acid and hydrogen peroxide at 90°C. The inorganic arsenic was separated from other arsenic compounds by anion exchange HPLC, coupled to ICP-MS for the detection of arsenic. Quality checks included the analysis of blanks, spikes, and CRMs. The methodology was accredited under flexible scope with validated competence to ISO method 17025.

PAH Analysis

The following analytes were determined:

Naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, benzo[c]fluorene, pyrene, benzo[g,h,i]-fluoranthene, benz[a]anthracene, benzo[b]naphtho[2,1-d]thiophene, cyclopenta[c,d]pyrene, chrysene, 5-methylchrysene, benzo[b]-fluoranthene, benzo[j]fluoranthene, benzo[k]fluoranthene, benzo[e]-pyrene, benzo[a]pyrene, indeno[1,2,3-cd]pyrene, dibenz[a,h]anthracene, benzo[g,h,i]perylene, anthanthrene, dibenzo[a,l]pyrene, dibenzo[a,e]-pyrene, dibenzo[a,i]pyrene, dibenzo[a,h]pyrene and coronene.

The method used for the preparation, extraction and analysis of samples has been reported previously (Rose *et al.* 2007). In brief, samples were fortified with ¹³C-labelled analogues of target compounds and subjected to saponification followed by liquid-liquid extraction. Clean-up was by DMF/cyclohexane partition followed by elution through a silica gel column. Analytical measurement was carried out using gas chromatography mass spectrometry (GC-MS).

The analysis is accredited (UKAS) to ISO 17025, with the inclusion of an in-house reference material and method blanks which were evaluated prior to the reporting of sample data and were used to determine the limits of detection. Further quality assurance measures included the successful participation in available international inter-comparison exercises such as European Union Reference Laboratory (EURL) and Food Analysis Proficiency Assurance Scheme (FAPAS) run proficiency test (PT) exercises.

Results

One hundred and four samples of wild caught fish were purchased from fish markets across England and Wales and analysed for the contaminants: mercury, lead, cadmium, total arsenic, inorganic arsenic and PFAS. A subset of these samples (n = 20) were analysed for PAHs, and another subset (n = 20) were analysed for dioxins and PCBs. Concentrations of the contaminants in the wild caught fish samples were compared to GB and EU legislation where available.

Metals Analyses

Mercury (Hg) was detected above the maximum level of 0.5 mg/kg in one of the bass samples at a concentration of 0.72 mg/kg. The GB and EU maximum levels for these elements are given in Appendix C.

A risk assessment was undertaken which indicated that the tolerable weekly intake for methylmercury at this reported level was exceeded in all age groups, except for adults. For inorganic mercury, exceedance occurs only at the 97.5th percentile for toddlers. While these exceedances are undesirable, they are considered unlikely to pose a long-term health concern, as sustained consumption of fish at these concentrations by these groups is improbable.

Dioxin and PCB Analysis

Concentrations of dioxins and PCBs were below the GB and EU maximum levels for these compounds (REUL, 2006; REUL, 2015) given in Appendix C.

PFAS Analysis

Of the EU regulated PFAS analytes (linear and branched PFOS, PFOA, PFNA and linear and branched PFHxS) no residues were detected above the EU maximum levels (EU, 2022) (note there are currently no maximum levels in place for these substances in fish in GB legislation):

The EU maximum levels for these substances are given in Appendix C.

Inorganic Arsenic Analysis

There are currently no maximum levels established in GB for inorganic arsenic in fish and shellfish. The EU has established maximum levels for inorganic arsenic in a range of foods under Commission Regulation (EU) 2023/915, amended by Commission Regulation (EU) 2025/1891, with limits set for fish and other seafood to help reduce consumer exposure to this genotoxic carcinogen. There were no exceedances of the EU maximum levels.

PAH Analysis

Concentrations of analysed levels of PAHs in the fishery products analysed are provided in Appendix C. Analysis of PAH levels were taken for interest and data gathering purposes, despite there being no MLs in GB or the EU for PAHs in these commodities.

Discussion

The non-compliant mercury result in Bass whilst undesirable, is unlikely to pose a long-term health concern, as sustained consumption of fish containing mercury at that level by the non-adult population is improbable.

With the exception of the single non-compliant Bass sample landed in Wales, which exceeded the GB maximum level for mercury, all of the remaining fish, crustaceans and cephalopods sampled in this survey were compliant with GB and EU contaminants maximum levels.

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Appendix

A. Sampling Plan

Table 2. Number of planned vs actually purchased samples

Region	Species	Number of samples to be purchased (planned)	Number of samples purchased (actual)
South West	Sardines (<i>Sardina pilchardus</i>)	15	15
South West	Cuttlefish (<i>Sepia officinalis</i>)	6	6
South West	Monks & Anglers (<i>Lophius piscatorius</i>)	6	6
South West	Crab (<i>Brachyura</i>)	4	4
South West	Hake (<i>Merluccius merluccius</i>)	3	3
South West	Sole (<i>Solea solea</i>)	4	3
South West	Plaice (<i>Pleuronectes platessa</i>)	3	3
South West	Skates & Rays (<i>Rajidae</i>)	3	3
South West	Gurnard (<i>Triglidae</i>)	2	1
South West	Dogfish (<i>Squalidae</i>)	2	2
South West	Lemon Sole (<i>Microstomus kitt</i>)	2	3
South West	Haddock (<i>Melanogrammus aeglefinus</i>)	2	2
South West	Mackerel (<i>Scomber scombrus</i>)	5	5
South West	South West Bass (<i>Dicentrarchus labrax</i>)	4	4

Region	Species	Number of samples to be purchased (planned)	Number of samples purchased (actual)
South East	Whiting (<i>Merlangius merlangus</i>)	0	2
South East	Dover Sole (<i>Solea solea</i>)	0	3
South East	Plaice (<i>Pleuronectes platessa</i>)	0	2

Region	Species	Number of samples to be purchased (planned)	Number of samples purchased (actual)
South East	Herring (<i>Clupea harengus membras</i>)	0	1
South East	Shrimps & Prawns (<i>Clupea</i>)	5	0
South East	Sprats (<i>Sprattus sprattus</i>)	3	0
South East	Skates & Rays (<i>Rajidae</i>)	2	2
North West	Plaice (<i>Pleuronectes platessa</i>)	2	2
North West	Crab (<i>Brachyura</i>)	2	2
North West	Lobster (<i>Nephropidae</i>)	2	2
North West	Nephrops (<i>Nephrops norvegicus</i>)	2	2
North West	Skates & Rays (<i>Rajidae</i>)	2	2

Region	Species	Number of samples to be purchased (planned)	Number of samples purchased (actual)
North East	Cod (<i>Gadus morhua</i>)	4	4
North East	Crab (<i>Brachyura</i>)	3	3
North East	Lobster (<i>Nephropidae</i>)	2	2
North East	Nephrops (<i>Nephrops norvegicus</i>)	2	6
Wales	Crab (<i>Brachyura</i>)	4	3
Wales	Monks & Anglers (<i>Lophius piscatorius</i>)	2	0
Wales	Lobster (<i>Nephropidae</i>)	2	2
Wales	Bass (<i>Dicentrarchus labrax</i>)	2	4

B. Sample Details

Table 3. Sampling dates and locations

LIMS Sample Number	Sample Number	Sampling Area	Food Item	Landing date	ICES Area
S25-037972	1001470	Northeast England	Lobsters	02/09/2025	Data Not Available
S25-037973	1001471	Northeast England	Crabs	02/09/2025	Data Not Available
S25-046512	1001472	Northeast England	Cod	07/10/2025	Data Not Available
S25-046513	1001477	Northeast England	Cod	07/10/2025	Data Not Available
S25-049304	1065054	Northeast England	Cod	04/11/2025	IVB
S25-049305	1065055	Northeast England	Crabs	04/11/2025	Data Not Available
S25-055317	1065116	Northeast England	Cod	02/12/2025	IVB
S26-001647	1065119	Northeast England	Nephrops	20/01/2026	Data Not Available
S26-001023	1065120	Northeast England	Nephrops	13/01/2026	Data Not Available
S26-001022	1065121	Northeast England	Crabs	13/01/2026	Data Not Available
S26-001024	1065122	Northeast England	Nephrops	13/01/2026	Data Not Available
S26-001648	1065204	Northeast England	Nephrops	20/01/2026	Data Not Available
S25-034192	2997568	Northeast England	Nephrops	22/07/2025	Data Not Available
S25-034191	2999377	Northeast England	Nephrops	22/07/2025	Data Not Available
S25-036094	2999407	Northeast England	Lobsters	13/08/2025	Data Not Available
S25-035856	1001488	Northwest England	Plaice	12/08/2025	VB
S25-035855	1001489	Northwest England	Lobsters	12/08/2025	Data Not Available
S25-036769	1001495	Northwest England	Skates and Rays	18/08/2025	Data Not Available
S25-038553	1001496	Northwest England	Skates and Rays	09/09/2025	VIII E
LIMS Sample Number	Sample Number	Sampling Area	Food Item	Landing date	ICES Area
S25-049303	1001499	Northwest England	Plaice	04/11/2025	Data Not Available
S25-038550	1001503	Northwest England	Lobsters	09/09/2025	VIII E
S26-006010	1065171	Northwest England	Crabs	10/02/2026	Data Not Available
S25-034187	2999374	Northwest England	Nephrops	22/07/2025	Data Not Available
S25-034193	2999375	Northwest England	Nephrops	22/07/2025	Data Not Available
S25-055316	2999376	Northwest England	Crabs	02/12/2025	Data Not Available
S26-001642	462687	Southeast England	Herring	19/01/2026	VIII D
S26-001643	462688	Southeast England	Whiting	19/01/2026	VIII D
S26-001646	563173	Southeast England	Plaice	19/01/2026	VIII D
S26-001645	563175	Southeast England	Sole	19/01/2026	VIII D
S26-001644	563176	Southeast England	Whiting	19/01/2026	VIII D
S25-045902	1001709	Southeast England	Skates and Rays	21/09/2025	Data Not Available
S26-001019	1065213	Southeast England	Sole	13/01/2026	VIII D
S26-001020	1065214	Southeast England	Sole	13/01/2026	VIII D
S26-001021	1065215	Southeast England	Plaice	13/01/2026	VIII D

LIMS Sample Number	Sample Number	Sampling Area	Food Item	Landing date	ICES Area
S25-034622	2999378	Southeast England	Skates and Rays	29/07/2025	VIII E
S25-067030	1001433	Southwest England	Sardines	17/12/2025	VIII E
S25-067031	1001434	Southwest England	Sardines	17/12/2025	VIII E
S25-046070	1001478	Southwest England	Crabs	08/10/2025	VIII E
S25-038572	1001501	Southwest England	Mackerel	09/09/2025	VIII E
S25-038570	1001502	Southwest England	Hake	09/09/2025	VIII E
LIMS Sample Number	Sample Number	Sampling Area	Food Item	Landing date	ICES Area
S25-038573	1001504	Southwest England	Monks or Anglers	09/09/2025	VIII E
S25-067029	1001522	Southwest England	Sardines	17/12/2025	VIII E
S25-038558	1001523	Southwest England	Cuttlefish	09/09/2025	VIII E
S25-038559	1001525	Southwest England	Cuttlefish	09/09/2025	VIII E
S25-038561	1001526	Southwest England	Haddock	09/09/2025	VIII E
S25-034188	1001548	Southwest England	Bass	23/07/2025	Data Not Available
S25-034189	1001549	Southwest England	Bass	23/07/2025	Data Not Available
S25-034190	1001550	Southwest England	Lemon Sole	23/07/2025	Data Not Available
S25-035426	1001561	Southwest England	Mackerel	12/08/2025	VIII E
S25-035427	1001562	Southwest England	Sardines	12/08/2025	VIII E
S25-035424	1001563	Southwest England	Sardines	12/08/2025	VIII E
S25-035425	1001564	Southwest England	Sardines	12/08/2025	VIII E
S25-035428	1001565	Southwest England	Skates and Rays	12/08/2025	VIII E
S25-035473	1001566	Southwest England	Mackerel	12/08/2025	VIII E
S25-035465	1001567	Southwest England	Lemon Sole	12/08/2025	VIII E
S25-035466	1001568	Southwest England	Plaice	12/08/2025	VIII E
S25-035468	1001569	Southwest England	Sole	12/08/2025	VIII E
S25-035464	1001570	Southwest England	Monks or Anglers	12/08/2025	VIII E
S25-035467	1001571	Southwest England	Monks or Anglers	12/08/2025	VIII E
S25-046074	1001612	Southwest England	Mackerel	08/10/2025	VIII E
LIMS Sample Number	Sample Number	Sampling Area	Food Item	Landing date	ICES Area
S25-048786	1001613	Southwest England	Sardines	29/10/2025	VIII E
S25-046076	1001614	Southwest England	Sole	08/10/2025	VIII E
S25-046072	1001616	Southwest England	Cuttlefish	08/10/2025	VIII E
S25-048787	1001685	Southwest England	Sardines	29/10/2025	VIII E
S25-046075	1001686	Southwest England	Plaice	08/10/2025	VIII E
S25-046073	1001711	Southwest England	Cuttlefish	08/10/2025	VIII E
S25-046069	1001712	Southwest England	Crabs	08/10/2025	VIII E

LIMS Sample Number	Sample Number	Sampling Area	Food Item	Landing date	ICES Area
S25-048785	1001713	Southwest England	Sardines	29/10/2025	VIII E
S25-038574	1001727	Southwest England	Monks or Anglers	09/09/2025	VIII E
S25-038557	1001728	Southwest England	Sole	09/09/2025	VIII E
S25-039867	1001729	Southwest England	Sardines	23/09/2025	VIII E
S25-039866	1001730	Southwest England	Sardines	23/09/2025	VIII E
S25-039865	1001732	Southwest England	Mackerel	23/09/2025	VIII E
S25-034556	1001813	Southwest England	Cuttlefish	28/07/2025	VIII E
S25-034558	1001814	Southwest England	Cuttlefish	28/07/2025	VIII E
S25-034560	1001816	Southwest England	Dogfish	28/07/2025	VIII E
S25-034559	1001817	Southwest England	Dogfish	28/07/2025	VIII E
S25-034552	1001818	Southwest England	Monks or Anglers	28/07/2025	VIII E
S25-034551	1001819	Southwest England	Monks or Anglers	28/07/2025	VIII E
S25-034550	1001820	Southwest England	Gurnard	28/07/2025	VIII E
LIMS Sample Number	Sample Number	Sampling Area	Food Item	Landing date	ICES Area
S25-034554	1001821	Southwest England	Sardines	28/07/2025	VIII E
S25-049269	1065048	Southwest England	Haddock	04/11/2025	VIII E
S25-049273	1065049	Southwest England	Sardines	04/11/2025	VIII E
S25-049272	1065050	Southwest England	Sardines	04/11/2025	VIII E
S25-049271	1065052	Southwest England	Plaice	04/11/2025	VIII E
S25-049270	1065053	Southwest England	Lemon Sole	04/11/2025	VIII E
S25-038571	2997614	Southwest England	Hake	09/09/2025	VIII E
S25-034553	2997615	Southwest England	Sardines	28/07/2025	VIII E
S25-038554	2997616	Southwest England	Skates and Rays	09/09/2025	VIII E
S25-049275	2999368	Southwest England	Crabs	04/11/2025	VIII E
S25-035472	3012974	Southwest England	Bass	12/08/2025	VIII E
S25-035470	3012975	Southwest England	Bass	12/08/2025	VIII E
S25-035469	3012976	Southwest England	Hake	12/08/2025	VIII E
S25-038555	3012979	Southwest England	Skates and Rays	09/09/2025	VIII E
S25-049274	3012980	Southwest England	Crabs	04/11/2025	VIII E
S25-046077	1001497	Wales	Crabs	07/10/2025	VII A
S25-046068	1001498	Wales	Bass	07/10/2025	Data Not Available
S25-036371	1001505	Wales	Lobsters	18/08/2025	VII F
S25-036369	1001507	Wales	Bass	11/08/2025	VII F
S25-046071	1001541	Wales	Bass	05/10/2025	VII F
S25-034038	1001551	Wales	Bass	21/07/2025	Data Not Available
S25-038551	1001609	Wales	Lobsters	09/09/2025	VII F
S25-050504	1065093	Wales	Crabs	09/11/2025	VII F

LIMS Sample Number	Sample Number	Sampling Area	Food Item	Landing date	ICES Area
S25-055735	3219722	Wales	Crabs	30/11/2025	VIIF

C. Results Table

Metals and inorganic Arsenic results

Table 4. Metals and inorganic Arsenic results in Bass

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S25-035470	Bass	0.259	<0.005	<0.005	1.53	<0.005	Southwest England
S25-036369	Bass	0.715	<0.005	<0.005	1.09	<0.005	Wales
S25-046068	Bass	0.325	<0.005	<0.005	1.64	<0.005	Wales
S25-046071	Bass	0.158	<0.005	<0.005	0.80	<0.005	Wales
S25-034038	Bass	0.130	<0.005	<0.005	1.37	<0.005	Wales
S25-034188	Bass	0.221	<0.005	<0.005	1.10	<0.005	Southwest England
S25-034189	Bass	0.207	<0.005	<0.005	1.72	<0.005	Southwest England
S25-035472	Bass	0.273	<0.005	<0.005	1.65	<0.005	Southwest England
GB/EU Maximum Level		0.500	0.500	0.300		0.1	

Table 5. Metals and inorganic Arsenic results in Cod

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S25-046512	Cod	0.086	<0.005	<0.005	6.17	<0.005	Northeast England
S25-046513	Cod	0.073	<0.005	<0.005	3.64	<0.005	Northeast England
S25-055317	Cod	0.110	<0.005	<0.005	3.46	<0.005	Northeast England
S25-049304	Cod	0.100	<0.005	<0.005	6.11	<0.005	Northeast England
GB/EU Maximum Level		0.500	0.050	0.300		0.1	

Table 6. Metals and inorganic Arsenic results in Crabs

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S25-050504	Crabs	0.120	0.173	0.008	41.10	<0.005	Wales

FERALIMS	Species	Hg Conc'n (mg/kg)	Cd Conc'n (mg/kg)	Pb Conc'n (mg/kg)	As Conc'n (mg/kg)	Inorganic As Conc'n (mg/kg)	Region
S25-037973	Crabs	0.265	0.006	0.027	40.40	<0.005	Northeast England
S25-049305	Crabs	0.220	0.006	0.008	43.70	0.005	Northeast England
S25-046069	Crabs	0.146	0.073	0.009	22.50	0.009	Southwest England
S25-046070	Crabs	0.093	0.017	0.007	20.10	0.006	Southwest England
S25-046077	Crabs	0.349	0.019	0.006	25.30	<0.005	Wales
S25-049274	Crabs	0.180	0.029	0.016	29.90	0.006	Southwest England
S25-049275	Crabs	0.140	0.006	0.016	16.60	<0.005	Southwest England
S25-055316	Crabs	0.190	<0.005	0.033	9.88	<0.005	Northwest England
S25-055735	Crabs	0.130	<0.005	0.013	26.40	0.005	Wales
S26-001022	Crabs	0.080	0.050	0.015	17.40	0.006	Northeast England
S26-006010	Crabs	0.040	0.018	0.016	18.50	<0.005	Northwest England
GB/EU Maximum Level		0.500	0.500	0.500		0.1	

Table 7. Metals and inorganic Arsenic results in Cuttlefish

FERALIMS	Species	Hg Conc'n (mg/kg)	Cd Conc'n (mg/kg)	Pb Conc'n (mg/kg)	As Conc'n (mg/kg)	Inorganic As Conc'n (mg/kg)	Region
S25-035462	Cuttlefish	0.054	0.005	0.032	23.50	0.006	Southwest England
S25-038560	Cuttlefish	0.044	<0.005	0.006	12.80	<0.005	Southwest England
S25-034556	Cuttlefish	0.035	0.010	0.009	18.60	<0.005	Southwest England
S25-034558	Cuttlefish	0.042	0.024	0.008	22.60	<0.005	Southwest England
S25-046072	Cuttlefish	0.051	<0.005	0.010	9.11	<0.005	Southwest England
S25-046073	Cuttlefish	0.038	<0.005	0.008	9.79	0.010	Southwest England
S25-038558	Cuttlefish	0.057	<0.005	0.029	20.60	<0.005	Southwest England
GB/EU Maximum Level		0.300	1.000	0.300		0.05	

Table 8. Metals and inorganic Arsenic results in Dogfish

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S25-034559	Dogfish	0.361	0.012	0.019	18.20	<0.005	Southwest England
S25-034560	Dogfish	0.441	0.007	0.006	33.80	<0.005	Southwest England
GB/EU Maximum Level		1.000	0.050	0.300		0.5	

Table 9. Metals and inorganic Arsenic results in Gurnard

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S25-038556	Gurnard	0.116	<0.005	<0.005	1.13	<0.005	Southwest England
S25-034550	Gurnard	0.103	<0.005	<0.005	4.58	<0.005	Southwest England
GB/EU Maximum Level		0.500	0.050	0.300		0.1	

Table 10. Metals and inorganic Arsenic results in Haddock

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S25-038561	Haddock	0.155	<0.005	0.032	10.60	<0.005	Southwest England
S25-049269	Haddock	0.090	<0.005	<0.005	20.10	<0.005	Southwest England
GB/EU Maximum Level		0.500	0.050	0.300		0.5	

Table 11. Metals and inorganic Arsenic results in Hake

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S25-035469	Hake	0.171	<0.005	<0.005	3.44	<0.005	Southwest England
S25-038570	Hake	0.085	<0.005	<0.005	1.86	<0.005	Southwest England
S25-038571	Hake	0.144	<0.005	<0.005	4.81	<0.005	Southwest England
GB/EU Maximum Level		0.500	0.050	0.300		0.1	

Table 12. Metals and inorganic Arsenic results in Herring

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S26-001642	Herring	0.030	0.020	0.013	1.42	<0.005	Southeast England
GB/EU Maximum Level						0.5	

Table 13. Metals and inorganic Arsenic results in Lemon Sole

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S25-035465	Lemon sole	0.064	<0.005	0.012	30.70	<0.005	Southwest England
S25-034190	Lemon sole	0.032	<0.005	<0.005	31.60	<0.005	Southwest England
S25-049270	Lemon sole	0.040	<0.005	<0.005	50.40	0.006	Southwest England
GB/EU Maximum Level		0.300	0.050	0.500		0.5	

Table 14. Metals and inorganic Arsenic results in Lobster

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S25-035855	Lobster	0.392	0.015	0.006	13.90	<0.005	Northwest England
S25-036094	Lobster	0.183	0.019	0.016	8.37	0.008	Northeast England
S25-036371	Lobster	0.181	0.025	<0.005	10.90	0.007	Wales
S25-037972	Lobster	0.153	0.018	0.008	6.05	0.006	Northeast England
S25-038550	Lobster	0.171	0.013	<0.005	11.98	0.012	Northwest England
S25-038551	Lobster	0.218	0.015	<0.005	14.35	<0.005	Wales
GB/EU Maximum Level		0.500	0.500	0.500		0.2	

Table 15. Metals and inorganic Arsenic results in Mackerel

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S25-035473	Mackerel	0.038	<0.005	<0.005	1.51	<0.005	Southwest England
S25-035426	Mackerel	0.115	<0.005	<0.005	1.65	<0.005	Southwest England
S25-046074	Mackerel	0.043	<0.005	<0.005	1.60	<0.005	Southwest England
S25-038572	Mackerel	0.092	<0.005	<0.005	1.77	<0.005	Southwest England
S25-039865	Mackerel	0.086	<0.005	<0.005	1.56	<0.005	Southwest England
GB/EU Maximum Level		0.300	0.100	0.300		0.1	

Table 16. Metals and inorganic Arsenic results in Monks and Anglers

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S25-034551	Monks and Anglers	0.103	<0.005	<0.005	8.54	<0.005	Southwest England
S25-034552	Monks and Anglers	0.101	<0.005	<0.005	12.50	<0.005	Southwest England
S25-038573	Monks and Anglers	0.172	<0.005	<0.005	14.20	<0.005	Southwest England
S25-038574	Monks and Anglers	0.230	<0.005	<0.005	9.44	<0.005	Southwest England
S25-035464	Monks and Anglers	0.198	<0.005	<0.005	7.57	<0.005	Southwest England
S25-035467	Monks and Anglers	0.235	<0.005	<0.005	6.99	<0.005	Southwest England
S25-036370	Monks and Anglers	0.161	<0.005	<0.005	6.63	<0.005	Wales
GB/EU Maximum Level		0.500	0.500	0.300		0.5	

Table 17. Metals and inorganic Arsenic results in Nephrops

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S25-034187	Nephrops	0.119	0.012	0.007	6.15	0.028	Northwest England
S25-034191	Nephrops	0.078	0.019	0.032	8.56	0.027	Northeast England
S25-034192	Nephrops	0.086	0.013	0.037	8.37	0.029	Northeast England
S25-034193	Nephrops	0.132	0.014	0.006	5.48	0.029	Northwest England
S26-001023	Nephrops	0.090	0.049	0.074	9.78	0.030	Northeast England
S26-001024	Nephrops	0.090	0.012	0.045	13.40	0.034	Northeast England
S26-001647	Nephrops	0.050	0.017	0.031	9.63	0.024	Northeast England
S26-001648	Nephrops	0.060	0.006	0.117	9.96	0.023	Northeast England
GB/EU Maximum Level		0.500	0.050	0.500		1.5	

Table 18. Metals and inorganic Arsenic results in Plaice

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S25-035466	Plaice	0.044	<0.005	0.005	6.72	<0.005	Southwest England
S25-035856	Plaice	0.067	<0.005	<0.005	18.30	<0.005	Northwest England
S25-046075	Plaice	0.071	<0.005	<0.005	11.50	<0.005	Southwest England
S26-001021	Plaice	0.090	<0.005	0.014	11.10	<0.005	Southeast England
S26-001646	Plaice	0.090	<0.005	0.016	8.40	<0.005	Southeast England
S25-049271	Plaice	0.040	<0.005	<0.005	6.53	<0.005	Southwest England
S25-049303	Plaice	0.050	<0.005	<0.005	14.80	<0.005	Northwest England
GB/EU Maximum Level		0.500	0.050	0.300		0.5	

Table 19. Metals and inorganic Arsenic results in Sardines

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S25-034553	Sardines	0.036	0.011	0.013	2.39	<0.005	Southwest England
S25-034554	Sardines	0.035	0.010	0.009	2.23	<0.005	Southwest England
S25-035424	Sardines	0.039	0.008	0.011	2.45	0.008	Southwest England
S25-035425	Sardines	0.037	0.009	0.012	2.41	0.010	Southwest England
S25-035427	Sardines	0.044	0.009	0.008	2.41	0.009	Southwest England
S25-039866	Sardines	0.036	0.008	0.016	2.55	<0.005	Southwest England
S25-039867	Sardines	0.032	0.007	0.010	2.80	<0.005	Southwest England
S25-067029	Sardines	0.030	0.008	0.018	3.50	<0.005	Southwest England
S25-067030	Sardines	0.030	0.006	0.018	3.85	<0.005	Southwest England
S25-067031	Sardines	0.030	0.012	0.020	3.35	<0.005	Southwest England
S25-049272	Sardines	0.060	0.015	0.052	2.84	0.007	Southwest England
S25-049273	Sardines	0.060	0.014	0.059	2.46	<0.005	Southwest England
GB/EU Maximum Level		0.300	0.250	0.300		0.1	

Table 20. Metals and inorganic Arsenic results in Skates and Rays

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S25-034622	Skate and Rays	0.188	<0.005	<0.005	67.00	<0.005	Southeast England
S25-035428	Skate and Rays	0.034	<0.005	<0.005	6.88	<0.005	Southwest England
S25-036769	Skate and Rays	0.208	<0.005	<0.005	29.00	<0.005	Northwest England
S25-038553	Skate and Rays	0.042	<0.005	0.006	9.15	<0.005	Northwest England
S25-038554	Skate and Rays	0.172	<0.005	<0.005	61.00	<0.005	Southwest England
S25-038555	Skate and Rays	0.078	<0.005	<0.005	36.70	<0.005	Southwest England
S25-045902	Skate and rays	0.250	<0.005	0.006	27.40	<0.005	Southeast England
GB/EU Maximum Level		0.500	0.050	0.300		0.5	

Table 21. Metals and inorganic Arsenic results in Sole

FERA LIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S25-035468	Sole	0.103	<0.005	<0.005	8.76	<0.005	Southwest England
S25-038557	Sole	0.098	<0.005	<0.005	15.50	<0.005	Southwest England
S26-001019	Sole	0.120	<0.005	<0.005	11.50	<0.005	Southeast England
S26-001020	Sole	0.060	<0.005	<0.005	6.57	<0.005	Southeast England
S26-001645	Sole	0.120	<0.005	0.048	16.50	<0.005	Southeast England
S25-046076	Sole	0.064	<0.005	<0.005	9.00	<0.005	Southwest England
GB/EU Maximum Level		0.500	0.050	0.300		0.5	

Table 22. Metals and inorganic Arsenic results in Whiting

FERALIMS	Species	Hg Conc (mg/kg)	Cd Conc (mg/kg)	Pb Conc (mg/kg)	As Conc (mg/kg)	Inorganic As Conc (mg/kg)	Region
S26-001643	Whiting	0.070	<0.005	0.042	1.82	<0.005	Southeast England
S26-001644	Whiting	0.060	<0.005	0.024	1.48	<0.005	Southeast England
GB/EU Maximum Level		0.300	0.050	0.300		0.1	

Dioxins and PCB results

Table 23. Dioxins and PCB results in Crabs

FERA LIMS	Species	PCDD/F TEQ upper, ng/kg whole	PCB TEQ upper, ng/kg whole	PCDD/ F&PCB TEQ upper, ng/ kg whole	SUM of ICES 6 PCBs upper µg/kg	Region
S25-037973	Crabs	0.13	0.16	0.03	0.15	Northeast England
S25-046070	Crabs	0.06	0.09	0.03	0.12	Northwest England
S25-046077	Crabs	0.05	0.08	0.03	0.10	Wales
S25-049275	Crabs	0.09	0.06	0.15	0.22	Southwest England
S25-050504	Crabs	0.13	0.2	0.07	0.42	Wales
S25-055316	Crabs	0.13	0.18	0.05	0.23	Northwest England
S26-001022	Crabs	0.04	0.02	0.06	0.06	Northeast England
S26-006010	Crabs	0.05	0.07	0.02	0.10	Northwest England
GB/EU Maximum Level		3.5		6.5	75	

Table 24. Dioxins and PCB results in Dogfish

FERA LIMS	Species	PCDD/F TEQ upper, ng/kg whole	PCB TEQ upper, ng/kg whole	PCDD/ F&PCB TEQ upper, ng/ kg whole	SUM of ICES 6 PCBs upper µg/kg	Region
S25-034559	Dogfish	0.16	0.27	0.11	1.34	Southwest England
S25-034560	Dogfish	0.04	0.07	0.03	0.63	Southwest England
GB/EU Maximum Level		3.5		6.5	75	

Table 25. Dioxins and PCB results in Lobster

FERA LIMS	Species	PCDD/F TEQ upper, ng/kg whole	PCB TEQ upper, ng/kg whole	PCDD/ F&PCB TEQ upper, ng/kg whole	SUM of ICES 6 PCBs upper µg/kg	Region
S25-036094	Lobster	0.05	0.11	0.06	0.85	Southwest England
S25-036371	Lobster	1.27	1.31	0.04	0.21	Wales
S25-037972	Lobster	0.03	0.05	0.02	0.11	Northeast England
S25-038550	Lobster	0.09	0.19	0.10	0.45	Northwest England
S25-038551	Lobster	0.13	0.20	0.07	0.47	Wales
S25-035855	Lobster	0.08	0.14	0.06	0.40	Northwest England
GB/EU Maximum Level		3.5		6.5	75	

Table 26. Dioxins and PCB results in Mackerel

FERA LIMS	Species	PCDD/F TEQ upper, ng/kg whole	PCB TEQ upper, ng/kg whole	PCDD/ F&PCB TEQ upper, ng/ kg whole	SUM of ICES 6 PCBs upper µg/kg	Region
S25-035426	Mackerel	0.70	2.51	1.81	18.45	Southwest England
S25-035473	Mackerel	0.32	0.87	0.55	6.05	Southwest England
GB/EU Maximum Level		3.5		6.5	75	

Table 27. Dioxins and PCB results in Sardines

FERA LIMS	Species	PCDD/F TEQ upper, ng/kg whole	PCB TEQ upper, ng/kg whole	PCDD/ F&PCB TEQ upper, ng/ kg whole	SUM of ICES 6 PCBs upper µg/kg	Region
S25-034554	Sardines	0.26	0.80	0.54	4.90	Southwest England
S25-035424	Sardines	0.28	0.97	0.69	6.24	Southwest England
GB/EU Maximum Level		3.5		6.5	7.5	

EU Regulated PFAS results

Table 28. EU Regulated PFAS results in Bass

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-034038	01001551	Bass	<0.05	<0.01	ND	4.10	0.49	4.59	<0.05	0.24	4.83	Wales
S25-034188	01001548	Bass	<0.05	<0.01	ND	0.62	0.03	0.65	<0.05	<0.05	0.65	Southwest England
S25-034189	01001549	Bass	<0.05	<0.01	ND	0.73	0.03	0.76	<0.05	<0.05	0.76	Southwest England
S25-035470	03012975	Bass	<0.05	<0.01	ND	1.28	0.07	1.35	<0.05	<0.05	1.35	Southwest England
S25-035472	03012974	Bass	<0.05	<0.01	ND	1.68	0.09	1.77	<0.05	<0.05	1.77	Southwest England
S25-036369	01001507	Bass	<0.05	<0.01	ND	1.87	0.17i	1.87	<0.05	0.10	1.97	Wales
S25-046068	01001498	Bass	<0.05	<0.01	ND	0.83	0.09	0.92	<0.05	<0.05	0.92	Wales
S25-046071	01001541	Bass	<0.05	<0.01	ND	0.53	0.04	0.57	<0.05	<0.05	0.57	Wales
EU Maximum Level					0.20			7.0	1.0	2.5	8.0	

Table 29. EU Regulated PFAS results in Cod

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-037973	01001471	Crabs	<0.05	<0.01	ND	0.21	0.03	0.24	0.46	0.43	1.13	Northeast England
S25-046069	01001712	Crabs	<0.05	<0.01	ND	0.05	<0.025	0.05	<0.05	<0.05	0.05	Southwest England
S25-046070	01001478	Crabs	<0.05	<0.01	ND	0.07	<0.025	0.07	0.07	0.05	0.19	Southwest England
S25-046077	01001497	Crabs	NM	NM	NM	0.06	<0.025	0.06	0.60	0.16	0.82	Wales
S25-049305	01065055	Crabs	<0.05	<0.01	ND	0.15	<0.01	0.15	0.06	0.13	0.34	Northeast England

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-049274	03012980	Crabs	<0.05	<0.01	ND	0.35	0.19	0.54	<0.05	<0.05	0.54	Southwest England
S25-049275	02999368	Crabs	<0.05	<0.01	ND	0.32	0.11	0.43	<0.05	<0.05	0.43	Southwest England
S25-050504	01065093	Crabs	<0.05	<0.01	ND	0.21	0.03	0.24	0.19	0.17	0.60	Wales
S25-055316	02999376	Crabs	<0.05	<0.01	ND	0.20	0.02	0.22	0.13	0.06	0.41	Northwest England
S26-001022	01065121	Crabs	<0.05	<0.01	ND	0.09	<0.01	0.09	0.07	0.08	0.24	Northeast England
S26-006010	01065171	Crabs	<0.05	<0.01	ND	0.24	<0.01	0.24	<0.05	<0.05	0.24	Northwest England
EU Maximum Level					1.5			3.0	0.70	1.0	5.0	

Table 30. EU Regulated PFAS results in Crabs

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-037973	01001471	Crabs	<0.05	<0.01	ND	0.21	0.03	0.24	0.46	0.43	1.13	Northeast England
S25-046069	01001712	Crabs	<0.05	<0.01	ND	0.05	<0.025	0.05	<0.05	<0.05	0.05	Southwest England
S25-046070	01001478	Crabs	<0.05	<0.01	ND	0.07	<0.025	0.07	0.07	0.05	0.19	Southwest England
S25-046077	01001497	Crabs	NM	NM	NM	0.06	<0.025	0.06	0.60	0.16	0.82	Wales
S25-049305	01065055	Crabs	<0.05	<0.01	ND	0.15	<0.01	0.15	0.06	0.13	0.34	Northeast England
S25-049274	03012980	Crabs	<0.05	<0.01	ND	0.35	0.19	0.54	<0.05	<0.05	0.54	Southwest England
S25-049275	02999368	Crabs	<0.05	<0.01	ND	0.32	0.11	0.43	<0.05	<0.05	0.43	Southwest England
S25-050504	01065093	Crabs	<0.05	<0.01	ND	0.21	0.03	0.24	0.19	0.17	0.60	Wales

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-055316	02999376	Crabs	<0.05	<0.01	ND	0.20	0.02	0.22	0.13	0.06	0.41	Northwest England
S26-001022	01065121	Crabs	<0.05	<0.01	ND	0.09	<0.01	0.09	0.07	0.08	0.24	Northeast England
S26-006010	01065171	Crabs	<0.05	<0.01	ND	0.24	<0.01	0.24	<0.05	<0.05	0.24	Northeast England
EU Maximum Level					1.5			3.0	0.70	1.0	5.0	

Table 31. EU Regulated PFAS results in Cuttlefish

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-035462	01001527	Cuttlefish	<0.05	<0.01	ND	0.14	<0.01	0.14	<0.05	<0.05	0.14	Southwest England
S25-038560	01001525	Cuttlefish	<0.05	<0.01	ND	0.14	<0.01	0.14	<0.05	<0.05	0.14	Southwest England
S25-034556	01001813	Cuttlefish	<0.05	<0.01	ND	0.44	0.01	0.45	<0.05	0.02	0.47	Southwest England
S25-034558	01001814	Cuttlefish	<0.05	<0.01	ND	0.18	<0.01	0.18	<0.05	0.01	0.19	Southwest England
S25-046072	01001616	Cuttlefish	<0.05	<0.01	ND	0.18	<0.025	0.18	<0.05	<0.05	0.18	Southwest England
S25-046073	01001711	Cuttlefish	<0.05	<0.01	ND	0.10	<0.025	0.10	<0.05	<0.05	0.10	Southwest England
S25-038558	01001523	Cuttlefish	<0.05	<0.01	ND	0.18	<0.01	0.18	<0.05	<0.05	0.18	Southwest England
EU Maximum Level					0.20			2.0	0.20	0.50	2.0	

Table 32. EU Regulated PFAS results in Dogfish

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-034559	01001817	Dogfish	<0.05	<0.01	ND	0.42	0.02	0.44	0.06	0.08	0.57	Southwest England
S25-034560	01001816	Dogfish	<0.05	<0.01	ND	0.33	<0.01	0.33	<0.05	<0.05	0.33	Southwest England
EU Maximum Level					0.20			2.0	0.20	0.50	2.0	

Table 33. EU Regulated PFAS results in Dover Sole

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S26-001019	01065213	Dover Sole	<0.05	<0.01	ND	0.11	0.01	0.13	<0.05	0.09	0.22	Southeast England
S26-001020	01065214	Dover Sole	<0.05	<0.01	ND	0.09	0.01	0.10	<0.05	0.05	0.15	Southeast England
S26-001645	00563175	Dover Sole	<0.05	<0.01	ND	0.17	0.02	0.19	<0.05	0.10	0.29	Southeast England
EU Maximum Level					0.20			2.0	0.20	0.50	2.0	

Table 34. EU Regulated PFAS results in Gurnard

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-038556	01001553	Gurnard	<0.05	<0.01	ND	0.28	0.02	0.30	<0.05	0.07	0.37	Southwest England
S25-034550	01001820	Gurnard	<0.05	<0.01	ND	0.24	0.02	0.26	<0.05	0.05	0.31	Southwest England
EU Maximum Level					0.20			2.0	0.20	0.50	2.0	

Table 35. EU Regulated PFAS results in Haddock

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-038561	01001526	Haddock	<0.05	<0.01	ND	0.39	0.04	0.43	0.08	0.75	1.26	Southwest England
S25-049269	01065048	Haddock	<0.05	<0.01	ND	0.17	<0.01	0.17	<0.05	0.25	0.41	Southwest England
EU Maximum Level					0.20			2.0	0.20	0.50	2.0	

Table 36. EU Regulated PFAS results in Hake

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-035469	03012976	Hake	<0.05	<0.01	ND	0.03	<0.01	0.03	<0.05	<0.05	0.03	Southwest England
S25-038570	01001502	Hake	<0.05	<0.01	ND	0.10	0.01i	0.10	<0.05	<0.05	0.10	Southwest England
S25-038571	02997614	Hake	<0.05	<0.01	ND	<0.05	<0.01	ND	<0.05	<0.05	0.00	Southwest England
EU Maximum Level					0.20			2.0	0.20	0.50	2.0	

Table 37. EU Regulated PFAS results in Herring

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S26-001642	00462687	Herring	<0.05	0.02	0.02	0.09	<0.01	0.09	<0.05	<0.05	0.11	Southeast England
EU Maximum Level					0.20			7	1	2.5	8.0	

Table 38. EU Regulated PFAS results in Lemon Sole

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-035465	01001567	Lemon Sole	<0.05	<0.01	ND	0.36	0.03	0.39	<0.05	0.19	0.58	Southwest England
S25-049270	01065053	Lemon Sole	<0.05	<0.01	ND	<0.05	<0.01	ND	<0.05	<0.05	ND	Southwest England
S25-034190	01001550	Lemon Sole	<0.05	<0.01	ND	0.10	<0.01	0.10	<0.05	0.07	0.18	Southwest England
EU Maximum Level					0.20			2.0	0.20	0.50	2.0	

Table 39. EU Regulated PFAS results in Lobster

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-035855	01001489	Lobster	<0.05	<0.01	ND	0.26	0.04	0.31	0.23	0.16	0.69	Northwest England
S25-036094	02999407	Lobster	<0.05	<0.01	ND	0.10	0.02	0.12	0.13	0.06	0.31	Northeast England
S25-036371	01001505	Lobster	<0.05	<0.01	ND	0.35	0.06i	0.35	0.17	0.14	0.66	Wales
S25-037972	1001470	Lobster	<0.05	<0.01	ND	0.08	0.03	0.10	0.10	0.08	0.29	Northeast England
S25-038550	01001503	Lobster	<0.05	<0.01	ND	0.10	0.03	0.13	0.05	0.06	0.24	Northwest England
S25-038551	01001609	Lobster	<0.05	<0.01	ND	0.27	0.04	0.30	0.13	0.12	0.55	Wales
EU Maximum Level					1.5			3.0	0.70	1.0	5.0	

Table 40. EU Regulated PFAS results in Mackerel

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-035473	01001566	Mackerel	<0.05	<0.01	ND	0.68	0.03	0.71	<0.05	<0.05	0.71	Southwest England
S25-035426	01001561	Mackerel	<0.05	<0.01	ND	0.90	0.03	0.94	<0.05	<0.05	0.94	Southwest England
S25-046074	01001612	Mackerel	<0.05	<0.01	ND	0.67	0.14i	0.67	<0.05	<0.05	0.67	Southwest England
S25-038572	01001501	Mackerel	<0.05	<0.01	ND	0.58	<0.01	0.58	<0.05	<0.05	0.58	Southwest England
S25-039865	01001732	Mackerel	<0.05	<0.01	ND	0.63	0.02i	0.63	<0.05	<0.05	0.63	Southwest England
EU Maximum Level					0.20			2.0	0.20	0.50	2.0	

Table 41. EU Regulated PFAS results in Monks and Anglers

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-034551	01001819	Monks and Anglers	<0.05	<0.01	ND	0.25	0.02	0.27	<0.05	<0.05	0.27	Southwest England
S25-034552	01001818	Monks and Anglers	<0.05	<0.01	ND	0.21	0.02	0.23	<0.05	0.04	0.27	Southwest England
S25-038573	01001504	Monks and Anglers	<0.05	<0.01	ND	0.49	0.03	0.52	<0.05	0.05	0.57	Southwest England
S25-038574	01001727	Monks and Anglers	<0.05	<0.01	ND	0.20	0.02	0.21	<0.05	0.05	0.27	Southwest England
S25-035464	01001570	Monks and Anglers	<0.05	<0.01	ND	0.13	0.01	0.15	<0.05	<0.05	0.15	Southwest England
S25-035467	01001571	Monks and Anglers	<0.05	<0.01	ND	0.18	0.02	0.20	<0.05	<0.05	0.20	Southwest England

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-036370	01001506	Monks and Anglers	<0.05	<0.01	ND	0.09	0.01i	0.09	<0.05	0.08	0.17	Wales
EU Maximum Level					0.20			2.0	0.20	0.50	2.0	

Table 42. EU Regulated PFAS results in Nephrops

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-034187	02999374	Nephrops	<0.05	<0.01	ND	0.06	<0.01	0.06	<0.05	0.08	0.14	Northwest England
S25-034191	02999377	Nephrops	<0.05	<0.01	ND	0.06	<0.01	0.06	0.07	0.08	0.21	Northeast England
S25-034192	02997568	Nephrops	<0.05	<0.01	ND	0.07	<0.01	0.07	0.07	0.08	0.23	Northeast England
S25-034193	02999375	Nephrops	<0.05	<0.01	ND	0.05	<0.01	0.05	0.03	0.10	0.18	Northwest England
S26-001023	01065120	Nephrops	<0.05	<0.01	ND	0.06	<0.01	0.06	0.19	0.20	0.45	Northeast England
S26-001024	01065122	Nephrops	<0.05	<0.01	ND	0.09	<0.01	0.09	0.12	0.20	0.41	Northeast England
S26-001647	01065119	Nephrops	<0.05	<0.01	ND	0.06	<0.01	0.06	0.12	0.13	0.32	Northeast England
S26-001648	01065204	Nephrops	<0.05	<0.01	ND	0.06	0.02	0.07	0.08	0.13	0.29	Northeast England
EU Maximum Level					1.5			3.0	0.70	1.0	5.0	

Table 43. EU Regulated PFAS results in Plaice

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-035466	01001568	Plaice	<0.05	<0.01	ND	0.87	0.02	0.90	0.03	0.27	1.20	Southwest England
S25-035856	01001488	Plaice	<0.05	<0.01	ND	0.05	<0.01	0.05	<0.05	0.06	0.11	Northwest England
S25-046075	01001686	Plaice	<0.05	<0.01	ND	0.18	<0.025	0.18	<0.05	0.05	0.23	Southwest England
S25-049271	01065052	Plaice	<0.05	<0.01	ND	0.05	<0.01	0.05	<0.05	<0.05	0.05	Southwest England
S25-049303	01001499	Plaice	<0.05	<0.01	ND	0.26	0.03	0.29	0.75	0.42	1.46	Northwest England
S26-001021	01065215	Plaice	<0.05	<0.01	ND	0.15	0.02	0.17	<0.05	0.06	0.22	Southeast England
S26-001646	00563173	Plaice	<0.05	<0.01	ND	0.21	0.04	0.24	<0.05	0.07	0.31	Southeast England
EU Maximum Level					0.20			7.0	1.0	2.5	8.0	

Table 44. EU Regulated PFAS results in Sardines

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-034553	02997615	Sardines	<0.05	<0.01	ND	0.20	0.02	0.22	<0.05	0.26	0.48	Southwest England
S25-034554	01001821	Sardines	<0.05	0.01	0.01	0.18	0.03	0.21	<0.05	0.09	0.31	Southwest England
S25-035424	01001563	Sardines	<0.05	<0.01	ND	0.25	0.03	0.27	<0.05	<0.05	0.27	Southwest England
S25-035425	01001564	Sardines	<0.05	<0.01	ND	0.28	0.02	0.30	<0.05	0.07	0.37	Southwest England
S25-035427	01001562	Sardines	<0.05	<0.01	ND	0.23	0.02	0.25	<0.05	0.06	0.32	Southwest England

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-039866	01001730	Sardines	<0.05	<0.01	ND	0.23	0.03	0.26	<0.05	<0.05	0.26	Southwest England
S25-039867	01001729	Sardines	<0.05	<0.01	ND	0.25	0.01i	0.25	<0.05	<0.05	0.25	Southwest England
S25-049272	01065050	Sardines	<0.05	<0.01	ND	0.32	0.30	0.62	<0.05	0.15	0.78	Southwest England
S25-049273	01065049	Sardines	<0.05	<0.01	ND	0.13	<0.01	0.13	<0.05	<0.05	0.13	Southwest England
EU Maximum Level					0.20			7.0	1.0	2.5	8.0	

Table 45. EU Regulated PFAS results in Skates and Rays

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-038553	01001496	Skate and Rays	<0.05	<0.01	ND	0.73	0.02	0.75	<0.05	<0.05	0.75	Northwest England
S25-038554	02997616	Skate and Rays	<0.05	<0.01	ND	0.30	0.02	0.32	<0.05	0.08	0.40	Southwest England
S25-038555	03012979	Skate and Rays	<0.05	<0.01	ND	0.62	0.02	0.64	<0.05	0.10	0.74	Southwest England
S25-034622	02999378	Skate and Rays	<0.05	<0.01	ND	0.16	0.01	0.17	<0.05	<0.05	0.17	Southeast England
S25-035428	01001565	Skate and Rays	<0.05	<0.01	ND	1.66	0.04	1.71	<0.05	0.09	1.79	Southwest England
S25-036769	01001495	Skate and Rays	<0.05	<0.01	ND	0.33	0.02i	0.33	<0.05	<0.05	0.33	Northwest England

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-045902	01001709	Skate and Rays	<0.05	<0.01	ND	0.16	<0.025	0.16	<0.05	<0.05	0.16	Southeast England
EU Maximum Level					0.20			2.0	0.20	0.50	2.0	

Table 46. EU Regulated PFAS results in Sole

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S25-035468	01001569	Sole	<0.05	<0.01	ND	0.25	0.02	0.27	<0.05	0.11	0.38	Southwest England
S25-038557	01001728	Sole	<0.05	<0.01	ND	0.13	<0.01	0.13	<0.05	0.08	0.21	Southwest England
S25-046076	01001614	Sole	<0.05	<0.01	ND	0.15	<0.025	0.15	<0.05	0.05	0.20	Southwest England
EU Maximum Level					0.20			2.0	0.20	0.50	2.0	

Table 47. EU Regulated PFAS results in Whiting

FERA LIMS	External reference	Species	L-PFHxS (µg/kg)	Br-PFHxS (µg/kg)	Total PFHxS (µg/kg)	L-PFOS (µg/kg)	Br-PFOS (µg/kg)	Total PFOS (µg/kg)	PFOA (µg/kg)	PFNA (µg/kg)	SUM # (µg/kg)	Region
S26-001643	00462688	Whiting	<0.05	<0.01	ND	0.21	0.01	0.22	<0.05	<0.05	0.22	Southeast England
S26-001644	00563176	Whiting	<0.05	<0.01	ND	0.25	0.02	0.27	<0.05	<0.05	0.27	Southeast England
EU Maximum Level					0.20			2.0	0.20	0.50	2.0	

Additional PFAS results

Table 48. Additional PFAS results in Bass

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDoA (µg/kg)
S25-034038	01001551	Bass	<0.05	<0.05	<0.05	<0.05	0.09	0.39	0.23
S25-034188	01001548	Bass	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	0.07
S25-034189	01001549	Bass	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	0.05
S25-035470	03012975	Bass	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-035472	03012974	Bass	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05
S25-036369	01001507	Bass	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.10
S25-046068	01001498	Bass	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05
S25-046071	01001541	Bass	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Table 49. Additional PFAS results in Cod

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDoA (µg/kg)
S25-046512	01001472	Cod	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-046513	01001477	Cod	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-049304	01065054	Cod	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-055317	01065116	Cod	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Table 50. Additional PFAS results in Crabs

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDoA (µg/kg)
S25-037973	01001471	Crabs	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05
S25-046069	01001712	Crabs	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-046070	01001478	Crabs	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-046077	01001497	Crabs	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05
S25-049305	01065055	Crabs	<0.05	<0.05	<0.05	0.13	<0.05	<0.05	<0.05

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDaA (µg/kg)
S25-049274	03012980	Crabs	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-049275	02999368	Crabs	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-050504	01065093	Crabs	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-055316	02999376	Crabs	<0.05	<0.05	<0.05	<0.05	<0.05	0.10	0.06
S26-001022	01065121	Crabs	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S26-006010	01065171	Crabs	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05

Table 51. Additional PFAS results in Cuttlefish

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDaA (µg/kg)
S25-035462	01001527	Cuttlefish	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-038560	01001525	Cuttlefish	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-034556	01001813	Cuttlefish	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05
S25-034558	01001814	Cuttlefish	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	<0.05
S25-046072	01001616	Cuttlefish	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-046073	01001711	Cuttlefish	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-038558	01001523	Cuttlefish	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Table 52. Additional PFAS results in Dogfish

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDaA (µg/kg)
S25-034559	01001817	Dogfish	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	0.07
S25-034560	01001816	Dogfish	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05

Table 53. Additional PFAS results in Dover Sole

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDaA (µg/kg)
S26-001019	01065213	Dover Sole	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDoA (µg/kg)
S26-001020	01065214	Dover Sole	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S26-001645	00563175	Dover Sole	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Table 54. Additional PFAS results in Gurnard

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDoA (µg/kg)
S25-038556	01001553	Gurnard	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-034550	01001820	Gurnard	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05

Table 55. Additional PFAS results in Haddock

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDoA (µg/kg)
S25-038561	01001526	Haddock	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	<0.05
S25-049269	01065048	Haddock	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Table 56. Additional PFAS results in Hake

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDoA (µg/kg)
S25-035469	03012976	Hake	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-038570	01001502	Hake	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-038571	02997614	Hake	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Table 57. Additional PFAS results in Herring

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDoA (µg/kg)
S26-001642	00462687	Herring	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Table 58. Additional PFAS results in Lemon Sole

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDoA (µg/kg)
S25-035465	01001567	Lemon Sole	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-049270	01065053	Lemon Sole	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-034190	01001550	Lemon sole	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05

Table 59. Additional PFAS results in Lobster

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDoA (µg/kg)
S25-035855	01001489	Lobster	<0.05	<0.05	<0.05	<0.05	0.07	0.17	0.35
S25-036094	02999407	Lobster	<0.05	<0.05	<0.05	<0.05	0.05	0.04	0.12
S25-036371	01001505	Lobster	<0.05	<0.05	<0.05	<0.05	0.06	0.08	0.13
S25-037972	1001470	Lobster	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11
S25-038550	01001503	Lobster	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06
S25-038551	01001609	Lobster	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.14

Table 60. Additional PFAS results in Mackerel

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDoA (µg/kg)
S25-035473	01001566	Mackerel	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-035426	01001561	Mackerel	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-046074	01001612	Mackerel	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-038572	01001501	Mackerel	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-039865	01001732	Mackerel	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Table 61. Additional PFAS results in Monks and Anglers

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDoA (µg/kg)
S25-034551	01001819	Monks and Anglers	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05
S25-034552	01001818	Monks and Anglers	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05
S25-038573	01001504	Monks and Anglers	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-038574	01001727	Monks and Anglers	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-035464	01001570	Monks and Anglers	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-035467	01001571	Monks and Anglers	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-036370	01001506	Monks and Anglers	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05

Table 62. Additional PFAS results in Nephrops

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDoA (µg/kg)
S25-034187	02999374	Nephrops	<0.05	<0.05	<0.05	<0.05	0.09	0.06	0.05
S25-034191	02999377	Nephrops	<0.05	<0.05	<0.05	<0.05	0.08	0.06	0.09
S25-034192	02997568	Nephrops	<0.05	<0.05	<0.05	<0.05	0.08	0.07	0.08
S25-034193	02999375	Nephrops	<0.05	<0.05	<0.05	<0.05	0.08	0.06	<0.05
S26-001023	01065120	Nephrops	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.07
S26-001024	01065122	Nephrops	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.13
S26-001647	01065119	Nephrops	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.12
S26-001648	01065204	Nephrops	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.12

Table 63. Additional PFAS results in Plaice

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDoA (µg/kg)
S25-035466	01001568	Plaice	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05
S25-035856	01001488	Plaice	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-046075	01001686	Plaice	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-049271	01065052	Plaice	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-049303	01001499	Plaice	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	<0.05
S26-001021	01065215	Plaice	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S26-001646	00563173	Plaice	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Table 64. Additional PFAS results in Sardines

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDoA (µg/kg)
S25-034553	02997615	Sardines	<0.05	<0.05	<0.05	<0.05	0.10	<0.05	<0.05
S25-034554	01001821	Sardines	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-035424	01001563	Sardines	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-035425	01001564	Sardines	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-035427	01001562	Sardines	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-039866	01001730	Sardines	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-039867	01001729	Sardines	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-049272	01065050	Sardines	<0.05	<0.05	<0.05	0.14	<0.05	<0.05	<0.05
S25-049273	01065049	Sardines	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Table 65. Additional PFAS results in Skate and Rays

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDoA (µg/kg)
S25-038553	01001496	Skate and Rays	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06
S25-038554	02997616	Skate and Rays	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDaA (µg/kg)
S25-038555	03012979	Skate and Rays	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.08
S25-034622	02999378	Skate and Rays	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05
S25-035428	01001565	Skate and Rays	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.17
S25-036769	01001495	Skate and Rays	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.21
S25-045902	01001709	Skate and Rays	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Table 66. Additional PFAS results in Sole

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDaA (µg/kg)
S25-035468	01001569	Sole	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-038557	01001728	Sole	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S25-046076	01001614	Sole	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Table 67. Additional PFAS results in Whiting

FERA LIMS	External reference	Species	PFBS (µg/kg)	PFBA (µg/kg)	PFPeA (µg/kg)	PFHpA (µg/kg)	PFHxA (µg/kg)	PFDA (µg/kg)	PFDaA (µg/kg)
S26-001643	00462688	Whiting	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S26-001644	00563176	Whiting	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PAH results

Table 68. PAH results in Crabs

FERA LIMS	Species	benzo(a)anthracene (µg/kg whole weight)	chrysene (µg/kg whole weight)	benzo(b)fluoranthene (µg/kg whole weight)	benzo(a)pyrene (µg/kg whole weight)	PAH 4 SUM Lower Bound (µg/kg whole weight)	Region
S25-037973	Crabs	0.04	<0.06	<0.04	<0.19	0.04	Northeast England
S25-046077	Crabs	<0.02	<0.09	<0.03	<0.21	0	Wales

FERA LIMS	Species	benzo(a)anthracene (µg/kg whole weight)	chrysene (µg/kg whole weight)	benzo(b)fluoranthene (µg/kg whole weight)	benzo(a)pyrene (µg/kg whole weight)	PAH 4 SUM Lower Bound (µg/kg whole weight)	Region
S25-049274	Crabs	<0.1	0.15	<0.09	<0.19	0.15	Southwest England
S25-050504	Crabs	0.05	<0.09	0.08	<0.2	0.13	Wales
S25-055316	Crabs	<0.04	<0.16	<0.1	<0.21	0	Northwest England
S26-001022	Crabs	<0.03	<0.09	<0.05	<0.19	0	Northeast England
S26-006010	Crabs	<0.03	<0.1	0.06	<0.22	0.06	Northwest England

Table 69. PAH results in Herring

FERA LIMS	Species	benzo(a)anthracene (µg/kg whole weight)	chrysene (µg/kg whole weight)	benzo(b)fluoranthene (µg/kg whole weight)	benzo(a)pyrene (µg/kg whole weight)	PAH 4 SUM Lower Bound (µg/kg whole weight)	Region
S26-001642	Herring	<0.03	<0.16	<0.1	<0.21	0	Southeast England

Table 70. PAH results in Lobster

FERA LIMS	Species	benzo(a)anthracene (µg/kg whole weight)	chrysene (µg/kg whole weight)	benzo(b)fluoranthene (µg/kg whole weight)	benzo(a)pyrene (µg/kg whole weight)	PAH 4 SUM Lower Bound (µg/kg whole weight)	Region
S25-035855	Lobster	<0.03	<0.08	<0.04	<0.21	0	Northwest England
S25-036094	Lobster	<0.04	<0.08	<0.04	<0.21	0	Southwest England
S25-036371	Lobster	<0.03	<0.08	<0.04	<0.21	0	Wales
S25-037972	Lobster	0.02	<0.06	<0.03	<0.19	0.02	Northeast England
S25-038550	Lobster	<0.01	<0.07	<0.03	<0.2	0	Northwest England
S25-038551	Lobster	<0.01	<0.07	<0.03	<0.2	0	Wales

Table 71. PAH results in Mackerel

FERA LIMS	Species	benzo(a)anthracene (µg/kg whole weight)	chrysene (µg/kg whole weight)	benzo(b)fluoranthene (µg/kg whole weight)	benzo(a)pyrene (µg/kg whole weight)	PAH 4 SUM Lower Bound (µg/kg whole weight)	Region
S25-035426	Mackerel	<0.03	<0.08	<0.04	<0.21	0	Southwest England
S25-038572	Mackerel	<0.01	<0.13	<0.03	<0.2	0	Southwest England

Table 72. PAH results in Sardines

FERA LIMS	Species	benzo(a)anthracene (µg/kg whole weight)	chrysene (µg/kg whole weight)	benzo(b)fluoranthene (µg/kg whole weight)	benzo(a)pyrene (µg/kg whole weight)	PAH 4 SUM Lower Bound (µg/kg whole weight)	Region
S25-035424	Sardines	<0.03	<0.08	<0.04	<0.21	0	Southwest England
S25-035425	Sardines	0.02	<0.1	0.1	<0.22	0.12	Southwest England

Table 73. PAH results in Whiting

FERA LIMS	Species	benzo(a)anthracene (µg/kg whole weight)	chrysene (µg/kg whole weight)	benzo(b)fluoranthene (µg/kg whole weight)	benzo(a)pyrene (µg/kg whole weight)	PAH 4 SUM Lower Bound (µg/kg whole weight)	Region
S26-001643	Whiting	<0.02	<0.1	<0.05	<0.22	0.08	Southeast England
S26-001644	Whiting	<0.03	<0.17	<0.1	<0.21	0	Southeast England