

Chemical Contaminants in Wild Caught Fish, Crustaceans and Molluscs – Northern Ireland 2025/26

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¹ Local Authority Policy and Delivery, Food Standards Agency

Keywords: Chemical Risks and Hypersensitivity, Chemical Risks, Products of Animal Origin, Sampling

<https://doi.org/10.46756/001c.166995>

FSA Research and Evidence



Lay Summary

Chemical contaminants can enter aquatic environments from natural and human sources and may accumulate in fish, crustaceans and molluscs. Monitoring programmes are undertaken to assess the presence of these substances in seafood intended for human consumption and to provide data on contaminant levels in the food supply.

This report presents the findings of a survey of wild caught fish, crustaceans and molluscs landed in Northern Ireland between March 2025 and March 2026. Samples from a range of commercially harvested species were analysed for selected heavy metals and per- and polyfluoroalkyl substances (PFAS).

The study contributes to ongoing surveillance of chemical contaminants in seafood and provides information on contaminant concentrations in species landed in Northern Ireland. The data generated support the assessment of compliance with food safety requirements and contribute to the evidence base used to monitor contaminant trends over time.

Details of the monitoring programme, analytical methods and study findings are presented in the main body of this report.

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- and polyfluoroalkyl substances (PFAS) and inorganic arsenic, which have maximum levels set in the European Union. 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.

You can find the results from the England and Wales survey [here](#).

Executive Summary

Eighty-two (82) samples of wild caught fish, crustaceans and molluscs were collected between March 2025 and March 2026 by authorised sampling officers in Northern Ireland. The samples were collected from the main landing areas and fish processing establishments. Forty-six (46) samples were analysed for the contaminants mercury, lead and cadmium (heavy metals). Thirty-six (36) samples were tested for per- and polyfluoroalkyl substances (PFAS).

Commission Regulation (EU) 2023/915 of 25 April 2023 on maximum levels for certain contaminants in food sets the regulatory limits for these contaminants in the matrices tested.

Concentrations of mercury, lead and cadmium were less than the maximum EU regulatory limits for all samples tested.

Concentrations of PFAS were below the EU regulatory limits for these compounds for all samples tested.

Introduction

Background to the study

The public analyst business unit of Eurofins Food Testing Ireland Limited was engaged by the Food Standards Agency (FSA) in Northern Ireland to assess the levels of various heavy metals and per- and polyfluoroalkyl substances (PFAS) chemical contaminants in a number of species of wild caught fish, crustaceans and molluscs landed in Northern Ireland between March 2025 and March 2026.

Aims and objectives of the study

The official control surveillance programme is undertaken to comply with Article 70 of Commission Implementing Regulation (EU) 2019/627 (EU, 2019) which requires a monitoring programme to be established for wild caught fishery products to control compliance with EU legislation on contaminants. This is an ongoing annual programme.

Regulation (EC) No. 2023/915 (EU, 2023) sets down the maximum levels for certain contaminants in food, including fishery products. The data has the potential to provide support to certifying officers in their attestation of the compliance of wild caught fishery products landed in Northern Ireland with contaminants legislation when signing Export Health Certificates.

The purpose of the work was to determine concentrations of defined chemical contaminants in wild caught fishery products and to assess whether the levels were within the prescribed limits (EU, 2023), and therefore that the products were safe for placing on the market in these respects.

Materials and Methods

Samples

Eighty-two (82) samples of wild caught fish, crustaceans and molluscs were collected between March 2025 and March 2026 by authorised sampling officers in Northern Ireland. Forty-six (46) samples were analysed for the contaminants mercury, lead and cadmium (heavy metals). Thirty-six (36) samples were tested for per- and polyfluoroalkyl substances (PFAS).

The type and number of samples of each species collected for analyses were determined based on the quantity of that species landed in Northern Ireland and any previous exceedances.

The species sampled were:

- Bream
- Brown crab
- Dublin Bay Prawns
- Eel
- Herring
- King Scallops
- Mackerel

- Mussels
- Oysters

On receipt at the laboratory (Eurofins Food Testing Ireland Limited, Dublin, Ireland) each sample was assigned a unique laboratory reference number, and the sample details were logged into a database.

Sample Preparation

For fish (including bream, eel, herring and mackerel), the maximum levels of heavy metals and PFAS apply to the muscle meat of the fish unless the fish are intended to be eaten whole, in which case the maximum levels apply to the whole fish.

For crustaceans other than crabs (including Dublin Bay prawns), the maximum levels of heavy metals and PFAS apply to muscle meat from the appendages and the abdomen, which means that the cephalothorax of crustaceans is excluded.

In case of crabs (infraorder Brachyura), the maximum levels of heavy metals and PFAS apply to the muscle meat from appendages only. (For the crab samples analysed for PFAS it was noted that an omission in laboratory records meant that it could not be confirmed whether both the appendages and abdomen or only the appendages were taken).

For king scallops (*Pecten maximus*), a bivalve mollusc, the maximum levels of heavy metals and PFAS apply to the adductor muscle and gonad only.

For other bivalve molluscs (including mussels and oysters), the maximum levels of heavy metals and PFAS apply to the edible parts.

The relevant tissue for each sample was homogenised in a blender. The aliquots for each analysis were immediately weighed out, and the remaining material was stored in a freezer.

Metal Analysis

The samples tested for heavy metals (cadmium, mercury and lead) were analysed by Eurofins WEJ Contaminants GmbH in Hamburg, Germany, in line with the requirements of Commission Regulation (EC) No 333/2007 (EU, 2007).

The testing was done using an in-house method based on EN ISO 15763: Determination of trace elements - determination of cadmium, mercury and lead in foodstuffs by Inductively coupled plasma mass spectrometry (ICP MS) after pressure digestion. Aliquots of homogenised test sample material were digested in an acid solution using a high-pressure microwave system. The solution was diluted as required before analysis.

Quantification of the four elements was by ICP MS. The method is accredited to ISO 17025 by DAkkS, the German Accreditation Service, and the laboratory is a designated Official Laboratory by the German State of Hamburg.

Per- and polyfluoroalkyl substances analysis

The samples tested for PFAS were analysed at Eurofins GfA Lab Service GmbH in Hamburg, Germany, in line with the requirements of Commission Implementing Regulation (EU) 2022/1428 (EU, 2022a).

The testing was done using an in-house method, reference GLS OC 400 2025-12, using LC-MS/MS. The method is accredited to ISO 17025 by DAkkS, the German Accreditation Service, and the laboratory is a designated Official Laboratory by the German State of Hamburg.

The following analytes were determined:

Table 1. PFAS analytes included in the analytical method and their abbreviations

Analyte	Abbreviation
Perfluorooctane sulfonic acid	PFOS
Perfluorooctanoic acid	PFOA
Perfluorononanoic acid	PFNA
Perfluorhexanesulfonic acid	PFHxS
Perfluorobutanoic acid	PFBA
Perfluoropentane acid	PFPeA
Perfluorohexanoic acid	PFHxA
Perfluorheptanoic acid	PFHpA
Perfluorodecanoic acid	PFDA
Perfluoroundecanoic acid	PFUnDA
Perfluorododecanoic acid	PFDoDA
Perfluorotridecanoic acid	PFTTrDA
Perfluorotetradecanoic acid	PFTeDA
Perfluorohexadecanoic acid	PFHxDA
Perfluorooctadecanoic acid	PFODA
Perfluorobutanesulfonic acid	PFBS
Perfluoropentanesulfonic acid	PFPeS
Perfluoroheptane sulphonate	PFHpS
Perfluorononanesulfonic acid	PFNS
Perfluorodecanesulfonic acid	PFDS
Perfluoroundecane sulfonic acid	PFUnDS
Perfluorododecane sulfonic acid	PFDoDS
Perfluorotridecane sulfonic acid	PFTTrDS
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	F-53 B Major

Analyte	Abbreviation
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	F-53 B Minor
Hexafluoropropylene oxide dimer acid	HFPO-DA (GenX)
Ammonium 4,8-dioxa-3H-perfluorononanoate	ADONA
Perfluoro-3,7-dimethyloctane acid	PF-3,7-DMOA
1H,1H,2H,2H-Perfluorohexanesulfonic acid	4:2 FTS
6:2 Fluorotelomer sulfonic acid	6:2 FTS (H4PFOS)
8:2 Fluorotelomer sulfonic acid	8:2 FTS
10:2 Fluorotelomer sulfonic acid	10:2 FTS

Results

The concentrations of the contaminants measured in all eighty-two samples were determined and compared to limits prescribed in Commission Regulation (EU) 2023/915 (EU, 2023).

Certificates of Analysis made under the provisions of the Food Safety (Sampling and Qualifications) Regulations (NI) 2013 were issued to the appropriate sampling officers and the Food Standards Agency. Results were also uploaded electronically to the UKFSS food database operated by the Food Standards Agency.

Metal analysis

Concentrations of mercury, cadmium and lead were below the regulatory limits for these compounds. Details are provided in [Table 1](#) in Appendix B.

Per- and polyfluoroalkyl substances analysis

Limits for certain PFAS are prescribed in Commission Regulation (EU) 2023/915 (EU, 2023):

- Perfluorooctane sulfonic acid (PFOS)
- Perfluorooctanoic acid (PFOA)
- Perfluorononanoic acid (PFNA)
- Perfluorohexanesulfonic acid (PFHxS)
- Sum of PFOS, PFOA, PFNA and PFHxS

Concentrations of these PFAS were below the regulatory limits for these compounds. Details are provided in [Table 2](#) in Appendix B.

Discussion

This official control surveillance programme examined the presence of selected heavy metals and per- and polyfluoroalkyl substances (PFAS) in fish, crustacean and mollusc samples and assessed their compliance with the requirements of Commission Regulation (EU) 2023/915.

The results indicate that all eighty-two samples analysed complied with the applicable maximum levels for mercury, cadmium, lead and regulated PFAS established under Commission Regulation (EU) 2023/915.

Metals

Mercury, cadmium and lead were not detected at concentrations exceeding the maximum levels prescribed in Commission Regulation (EU) 2023/915.

Per- and polyfluoroalkyl Substances (PFAS)

The concentrations of PFOS, PFOA, PFNA and PFHxS, as well as the sum of these compounds, were below the relevant regulatory limits in all samples analysed.

In addition, Commission Recommendation (EU) 2022/1431 on the monitoring of perfluoroalkyl substances in food requests EU Member States to test for the presence of compounds which are similar to PFOS, PFOA, PFNA and PFHxS, in order to support a dietary exposure assessment and assess the need to regulate these substances in specific commodities (EU, 2022b).

The concentrations of these additional PFAS are detailed in [Table 3](#) in Appendix B.

There was one brown crab sample which exceeded the maximum level for PFOA, although not for total PFAS. For the crab samples analysed for PFAS it was noted that an omission in laboratory records meant that it could not be confirmed whether both the appendages and abdomen or only the appendages were taken for testing. On this basis it was not appropriate to assess these results against the maximum limits prescribed in Commission Regulation (EU) 2023/915 (EU, 2023) which apply to the muscle meat from appendages only. The laboratory has implemented corrective and preventive actions to prevent recurrence and to ensure that samples are analysed in accordance with the requirements of the relevant regulation.

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Acknowledgements

Eurofins Food Testing Ireland Limited.
Mid Ulster District Council
Newry, Mourne & Down District Council

Published: August 28, 2026 BST.



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References

EU. (2007). *Commission Regulation (EC) No 333/2007 of 28 March 2007 laying down the methods of sampling and analysis for the official control of the levels of lead, cadmium, mercury, inorganic tin, 3-MCPD and benzo(a)pyrene in foodstuffs.*

EU. (2019). *Commission Implementing Regulation (EU) 2019/627 of 15 March 2019 laying down uniform practical arrangements for the performance of official controls on products of animal origin intended for human consumption in accordance with Regulation (EU) 2017/625 of the European Parliament and of the Council and amending Commission Regulation (EC) No 2074/2005 as regards official controls.*

EU. (2022a). *Commission Implementing Regulation (EU) 2022/1428 of 24 August 2022 laying down methods of sampling and analysis for the control of perfluoroalkyl substances in certain foodstuffs.*

EU. (2022b). *Commission Recommendation (EU) 2022/1431 on the monitoring of perfluoroalkyl substances in food.*

EU. (2023). *Commission Regulation (EU) 2023/915 of 25 April 2023 on maximum levels for certain contaminants in food and repealing Regulation (EC) No 1881/ 2006.*

Appendices

Appendix A: Sample details

Table 2. Details of wild caught fish, crustacean and mollusc samples collected between March 2025 and March 2026

Sample Number	Full Product Text Description	Landing Date	Sampling Area/ Point
FSAWF180	Dublin Bay Prawns	15/04/2025	East Coast (NI)
FSAWF181	Dublin Bay Prawns	18/04/2025	East Coast (NI)
FSAWF182	Dublin Bay Prawns	16/04/2025	East Coast (NI)
FSAWF183	Dublin Bay Prawns	13/04/2025	East Coast (NI)
FSAWF184	Dublin Bay Prawns	14/04/2025	East Coast (NI)
FSAWF185	Dublin Bay Prawns	14/04/2025	East Coast (NI)
FSAWF186	Dublin Bay Prawns	01/05/2025	East Coast (NI)
FSAWF187	Dublin Bay Prawns	08/05/2025	East Coast (NI)
FSAWF188	Dublin Bay Prawns	14/05/2025	East Coast (NI)
FSAWF189	King Scallop	01/04/2025	East Coast (NI)
FSAWF190	King Scallop	02/03/2025*	East Coast (NI)
FSAWF191	King Scallop	26/03/2026*	East Coast (NI)
FSAWF192	King Scallop	26/03/2025*	East Coast (NI)
FSAWF193	Dublin Bay Prawns	30/07/2025	East Coast (NI)
FSAWF194	Dublin Bay Prawns	31/07/2025	East Coast (NI)
FSAWF195	Dublin Bay Prawns	31/07/2025	East Coast (NI)
FSAWF196	Dublin Bay Prawns	30/07/2025	East Coast (NI)
FSAWF197	Brown Crab	31/07/2025	East Coast (NI)
FSAWF198	Brown Crab	31/07/2025	East Coast (NI)
FSAWF199	Dublin Bay Prawns	30/07/2025	East Coast (NI)
FSAWF26200	Brown Crab	30/07/2025	East Coast (NI)
FSAWF26201	Brown Crab	06/08/2025	East Coast (NI)
FSAWF26202	Brown Crab	12/10/2025	East Coast (NI)
FSAWF26203	Brown Crab	12/10/2025	East Coast (NI)
FSAWF26204	Herring	04/11/2025	East Coast (NI)
FSAWF26205	Herring	04/11/2025	East Coast (NI)
FSAWF26206	Herring	10/11/2025	East Coast (NI)
FSAWF26207	Herring	10/11/2025	East Coast (NI)
FSAWF26208	Herring	07/11/2025	East Coast (NI)
FSAWF26209	Herring	07/11/2025	East Coast (NI)
FSAWF26210	Herring	05/11/2025	East Coast (NI)
FSAWF26211	Herring	05/11/2025	East Coast (NI)
FSAWF26212	Herring	09/11/2025	East Coast (NI)
FSAWF26213	Herring	09/11/2025	East Coast (NI)
FSAWF26214	Herring	06/11/2025	East Coast (NI)
FSAWF26215	Herring	06/11/2025	East Coast (NI)

Sample Number	Full Product Text Description	Landing Date	Sampling Area/ Point
FSAWF26216	Herring	08/11/2025	East Coast (NI)
FSAWF26217	King Scallop	08/11/2025	East Coast (NI)
FSAWF26218	King Scallop	08/11/2025	East Coast (NI)
FSAWF26219	King Scallop	11/11/2025	East Coast (NI)
FSAWF26220	King Scallop	11/11/2025	East Coast (NI)
FSAWF26221	King Scallop	12/11/2025	East Coast (NI)
FSAWF26222	King Scallop	13/11/2025	East Coast (NI)
FSAWF26223	Mackerel	10/02/2026	East Coast (NI)
FSAWF26224	Mackerel	10/02/2026	East Coast (NI)
FSAWF26225	Mackerel	13/02/2026	East Coast (NI)
FSAWF26226	Mackerel	13/02/2026	East Coast (NI)
FSAWF26227	Mackerel	13/02/2026	East Coast (NI)
FSAWF26228	Mackerel	12/01/2026	East Coast (NI)
FSAWF26229	Mackerel	04/02/2026	East Coast (NI)
FSAWF26230	Mackerel	13/01/2026	East Coast (NI)
FSAWF26231	Mackerel	13/01/2026	East Coast (NI)
FSAWF26232	Mackerel	13/01/2026	East Coast (NI)
FSAWF26233	Mackerel	03/02/2026	East Coast (NI)
FSAWF26234	Mackerel	17/02/2026	East Coast (NI)
FSAWF26235	Brown Crab	12/12/2025	East Coast (NI)
FSAWF26236	Brown Crab	15/12/2025	East Coast (NI)
FSAWF26237	Brown Crab	12/12/2025	East Coast (NI)
FSAWF26238	Brown Crab	15/12/2025	East Coast (NI)
FSAWF26239	Brown Crab	Not provided	East Coast (NI)
FSAWF26240	Brown Crab	Not provided	East Coast (NI)
811CN/A/2760	Eel	23/07/2025	Lough Neagh
811CN/A/2761	Eel	23/07/2025	Lough Neagh
811CN/A/2762	Eel	23/07/2025	Lough Neagh
811CN/A/2763	Eel	23/07/2025	Lough Neagh
811CN/A/2768	Eel	24/09/2025	Lough Neagh
811CN/A/2769	Eel	24/09/2025	Lough Neagh
811CN/A/2770	Bream	24/09/2025	Lough Neagh
811CN/A/2771	Bream	24/09/2025	Lough Neagh
811CN/A/2780	Eel	10/12/2025	Lough Neagh
811CN/A/2781	Eel	10/12/2025	Lough Neagh
811CN/A/2782	Eel	10/12/2025	Lough Neagh
811CN/A/2785	Bream	27/02/2026	Lough Neagh
811CN/A/2786	Bream	27/02/2026	Lough Neagh
811CN/A/2787	Bream	27/02/2026	Lough Neagh
811CN/A/2788	Bream	27/02/2026	Lough Neagh
811CN/A/2789	Bream	27/02/2026	Lough Neagh
811CN/A/2790	Bream	27/02/2026	Lough Neagh
811CN/A/2791	Bream	11/02/2026	Lough Neagh

Sample Number	Full Product Text Description	Landing Date	Sampling Area/ Point
C11 AFFNI84	Oysters	04/02/2026	Carlingford Lough
C7 AFFNI73	Oysters	04/02/2026	Carlingford Lough
Narrow Water Wild Fisheries (NWF)	Mussels	04/02/2026	Carlingford Lough

*Note: These samples were taken in March 2025 for the 2025/26 official control monitoring programme in order to facilitate collection of this specific species.

Appendix B: Tables

Table 3. Mercury, cadmium and lead concentrations in wild caught fish, crustaceans and molluscs. (Concentrations are not corrected for recovery.)

Bream

Sample Number	Species	Mercury (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)
811CN/A/2791	Bream	0.033	<0.005	<0.02
811CN/A/2787	Bream	0.040	<0.005	<0.02
811CN/A/2788	Bream	0.044	<0.005	<0.02
811CN/A/2789	Bream	0.046	<0.005	<0.02
811CN/A/2790	Bream	0.030	<0.005	<0.02
Maximum levels set out in Commission Regulation (EU) 2023/915		0.50	0.050	0.30

Brown Crab

Sample Number	Species	Mercury (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)
FSAWF197	Brown Crab	0.14	0.20	<0.02
FSAWF26200	Brown Crab	0.082	0.22	<0.02
FSAWF26202	Brown Crab	0.12	0.21	0.029
FSAWF26235	Brown Crab	0.13	0.014	0.021
FSAWF26236	Brown Crab	0.11	0.045	<0.02
FSAWF26239	Brown Crab	0.16	<0.005	<0.02
FSAWF26240	Brown Crab	0.16	<0.005	<0.02
Maximum levels set out in Commission Regulation (EU) 2023/915		0.50	0.50	0.50

Dublin Bay Prawns

Sample Number	Species	Mercury (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)
FSAWF180	Dublin Bay Prawn	0.31	0.022	0.021
FSAWF181	Dublin Bay Prawn	0.14	0.008	0.047
FSAWF183	Dublin Bay Prawn	0.23	0.009	0.037

Sample Number	Species	Mercury (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)
FSAWF184	Dublin Bay Prawn	0.20	0.006	0.034
FSAWF188	Dublin Bay Prawn	0.069	<0.005	0.037
FSAWF193	Dublin Bay Prawn	0.16	0.009	0.032
FSAWF194	Dublin Bay Prawn	0.083	0.009	<0.02
FSAWF195	Dublin Bay Prawn	0.01	0.088	<0.02
Maximum levels set out in Commission Regulation (EU) 2023/915		0.50	0.50	0.50

Eel

Sample Number	Species	Mercury (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)
811CN/A/2768	Eel	0.067	<0.005	<0.02
811CN/A/2769	Eel	0.093	0.005	<0.02
811CN/A/2780	Eel	0.13	0.015	<0.02
811CN/A/2781	Eel	0.11	0.027	<0.02
811CN/A/2782	Eel	0.12	0.032	<0.02
Maximum levels set out in Commission Regulation (EU) 2023/915		0.50	0.050	0.30

Herring

Sample Number	Species	Mercury (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)
FSAWF26204	Herring	0.047	<0.005	<0.02
FSAWF26206	Herring	0.044	<0.005	<0.02
FSAWF26208	Herring	0.050	<0.005	<0.02
FSAWF26210	Herring	0.057	<0.005	<0.02
FSAWF26212	Herring	0.072	<0.005	<0.02
FSAWF26214	Herring	0.056	<0.005	<0.02
FSAWF26216	Herring	0.043	0.024	<0.02
Maximum levels set out in Commission Regulation (EU) 2023/915		0.30	0.050	0.30

King Scallop

Sample Number	Species	Mercury (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)
FSAWF189	King Scallop	0.010	0.23	0.13
FSAWF190	King Scallop	0.011	0.25	0.12
FSAWF191	King Scallop	0.009	0.24	0.11
FSAWF192	King Scallop	0.011	0.25	0.15
FSAWF26217	King Scallop	0.009	0.26	0.22
FSAWF26219	King Scallop	0.011	0.27	0.13
FSAWF26221	King Scallop	0.012	0.34	0.11
Maximum levels set out in Commission Regulation (EU) 2023/915		0.50	1.0	1.50

Mackerel

Sample Number	Species	Mercury (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)
FSAWF26223	Mackerel	0.039	0.015	<0.02
FSAWF26225	Mackerel	0.045	0.024	<0.02
FSAWF26227	Mackerel	0.039	0.024	<0.02
FSAWF26229	Mackerel	0.034	0.021	<0.02
FSAWF26231	Mackerel	0.058	0.054	<0.02
FSAWF26233	Mackerel	0.033	0.041	<0.02
FSAWF26234	Mackerel	0.037	0.031	<0.02
Maximum levels set out in Commission Regulation (EU) 2023/915		0.30	0.10	0.30

Table 4. PFAS results for wild caught fish, crustaceans and molluscs, where limits are prescribed in Commission Regulation (EU) 2023/915 (EU, 2023).
(Concentrations are not corrected for recovery.)

Bream

Sample Number	Species	PFOS µg/kg	PFOA µg/kg	PFNA µg/kg	PFHxS µg/kg	PFAS (4) Total µg/kg
811CN/A/2770	Bream	1.8	< 0.100	< 0.100	< 0.100	1.8
811CN/A/2771	Bream	1.6	< 0.100	0.10	< 0.100	1.7
811CN/A/2785	Bream	1.7	< 0.100	< 0.100	< 0.100	1.7
811CN/A/2786	Bream	1.7	< 0.100	< 0.100	< 0.100	1.7
Maximum levels set out in Commission Regulation (EU) 2023/915		35	8.0	8.0	1.5	45

Brown Crab

Sample Number	Species	PFOS µg/kg	PFOA µg/kg	PFNA µg/kg	PFHxS µg/kg	PFAS (4) Total µg/kg
FSAWF198	Brown Crab	< 0.100	< 0.100	< 0.100	< 0.100	None detected
FSAWF26201	Brown Crab	0.27	< 0.100	< 0.100	< 0.100	0.27
FSAWF26203	Brown Crab	0.89	1.6	0.52	< 0.100	3.0
FSAWF26237	Brown Crab	0.21	< 0.100	< 0.100	< 0.100	0.21
FSAWF26238	Brown Crab	0.10	< 0.100	< 0.100	< 0.100	0.10
Maximum levels set out in Commission Regulation (EU) 2023/915		3.0*	0.70*	1.0*	1.5*	5.0*

* Note: it was not possible to confirm whether both the appendages and abdomen or only the appendages of the crabs were taken for testing and so was not appropriate to assess these results against the maximum limits prescribed in Commission Regulation (EU) 2023/915 (EU, 2023) which apply to the muscle meat from appendages only.

Dublin Bay Prawns

Sample Number	Species	PFOS µg/kg	PFOA µg/kg	PFNA µg/kg	PFHxS µg/kg	PFAS (4) Total µg/kg
FSAWF182	Dublin Bay Prawn	< 0.100	< 0.100	< 0.100	< 0.100	None detected
FSAWF185	Dublin Bay Prawn	< 0.100	< 0.100	< 0.100	< 0.100	None detected
FSAWF186	Dublin Bay Prawn	< 0.100	0.10	< 0.100	< 0.100	0.10
FSAWF187	Dublin Bay Prawn	< 0.100	< 0.100	< 0.100	< 0.100	None detected
FSAWF196	Dublin Bay Prawn	< 0.100	0.12	< 0.100	< 0.100	0.12
FSAWF199	Dublin Bay Prawn	< 0.100	0.12	< 0.100	< 0.100	0.12
Maximum levels set out in Commission Regulation (EU) 2023/915		3.0	0.70	1.0	1.5	5.0

Eel

Sample Number	Species	PFOS µg/kg	PFOA µg/kg	PFNA µg/kg	PFHxS µg/kg	PFAS (4) Total µg/kg
811CN/A/2760	Eel	1.3	0.16	0.12	< 0.100	1.6
811CN/A/2761	Eel	1.9	0.21	0.14	< 0.100	2.2
811CN/A/2762	Eel	1.5	0.14	0.12	< 0.100	1.8
811CN/A/2763	Eel	1.3	< 0.100	< 0.100	< 0.100	1.3
Maximum levels set out in Commission Regulation (EU) 2023/915		35	8.0	8.0	1.5	45

Herring

Sample Number	Species	PFOS µg/kg	PFOA µg/kg	PFNA µg/kg	PFHxS µg/kg	PFAS (4) Total µg/kg
FSAWF26205	Herring	< 0.100	< 0.100	< 0.100	< 0.100	None detected
FSAWF26207	Herring	< 0.100	< 0.100	< 0.100	< 0.100	None detected
FSAWF26209	Herring	< 0.100	< 0.100	< 0.100	< 0.100	None detected
FSAWF26211	Herring	< 0.100	< 0.100	< 0.100	< 0.100	None detected
FSAWF26213	Herring	< 0.100	< 0.100	< 0.100	< 0.100	None detected
FSAWF26215	Herring	< 0.100	< 0.100	< 0.100	< 0.100	None detected
Maximum levels set out in Commission Regulation (EU) 2023/915		2.0	0.20	0.50	0.20	2.0

King Scallop

Sample Number	Species	PFOS µg/kg	PFOA µg/kg	PFNA µg/kg	PFHxS µg/kg	PFAS (4) Total µg/kg
FSAWF26218	King Scallop	< 0.100	< 0.100	< 0.100	< 0.100	None detected
FSAWF26220	King Scallop	< 0.100	< 0.100	< 0.100	< 0.100	None detected
FSAWF26222	King Scallop	< 0.100	< 0.100	< 0.100	< 0.100	None detected
Maximum levels set out in Commission Regulation (EU) 2023/915		3.0	0.70	1.0	1.5	5.0

Mackerel

Sample Number	Species	PFOS µg/kg	PFOA µg/kg	PFNA µg/kg	PFHxS µg/kg	PFAS (4) Total µg/kg
FSAWF26224	Mackerel	< 0.100	< 0.100	< 0.100	< 0.100	None detected
FSAWF26226	Mackerel	0.11	< 0.100	< 0.100	< 0.100	0.11
FSAWF26228	Mackerel	< 0.100	< 0.100	< 0.100	< 0.100	None detected
FSAWF26230	Mackerel	< 0.100	< 0.100	< 0.100	< 0.100	None detected
FSAWF26232	Mackerel	< 0.100	< 0.100	< 0.100	< 0.100	None detected
Maximum levels set out in Commission Regulation (EU) 2023/915		35	8.0	8.0	1.5	45

Mussels

Sample Number	Species	PFOS µg/kg	PFOA µg/kg	PFNA µg/kg	PFHxS µg/kg	PFAS (4) Total µg/kg
Narrow water Wild Fisheries (NWF)	Mussels	< 0.100	< 0.100	< 0.100	< 0.100	None detected
Maximum levels set out in Commission Regulation (EU) 2023/915		3.0	0.70	1.0	1.5	5.0

Oysters

Sample Number	Species	PFOS µg/kg	PFOA µg/kg	PFNA µg/kg	PFHxS µg/kg	PFAS (4) Total µg/kg
C7 AFFNI73	Oysters	< 0.100	< 0.100	< 0.100	< 0.100	None detected
C11 AFFNI84	Oysters	< 0.100	< 0.100	< 0.100	< 0.100	None detected
Maximum levels set out in Commission Regulation (EU) 2023/915		3.0	0.70	1.0	1.5	5.0

Table 5. PFAS results for wild caught fish, crustaceans and molluscs, where no limits are prescribed in Commission Regulation (EU) 2023/915 (EU, 2023).

Bream

Sample Number	Species	PFDA µg/kg	PFUnDA µg/kg	PFDoDA µg/kg	PFTTrDA µg/kg	PFBS µg/kg	PFBA µg/kg	PFPeA µg/kg	PFHxA µg/kg	PFHpA µg/kg	PFTeDA µg/kg	PFHxDA µg/kg
811CN/A/2770	Bream	0.33	0.29	0.13	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
811CN/A/2771	Bream	0.32	0.33	0.11	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
811CN/A/2785	Bream	0.22	0.23	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
811CN/A/2786	Bream	0.24	0.27	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100

Sample Number	PFODA µg/kg	PFPeS µg/kg	PFHpS µg/kg	PFNS µg/kg	PFDS µg/kg	PFUnDS µg/kg	PFDoDS µg/kg	PFTTrDS µg/kg	F-53 B Major µg/kg	F-53 B Minor µg/kg	HFPO-DA µg/kg	ADONA µg/kg
811CN/A/2770	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
811CN/A/2771	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
811CN/A/2785	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
811CN/A/2786	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100

Sample Number	PF-3,7-DMOA µg/kg	4:2 FTS µg/kg	6:2 FTS µg/kg	8:2 FTS µg/kg	10:2 FTS µg/kg	PFAS (32) Total µg/kg
811CN/A/2770	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	2.55
811CN/A/2771	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	2.49
811CN/A/2785	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	2.19
811CN/A/2786	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	2.21

Brown Crab

Sample Number	Species	PFDA µg/kg	PFUnDA µg/kg	PFDODA µg/kg	PFTTrDA µg/kg	PFBS µg/kg	PFBA µg/kg	PFPeA µg/kg	PFHxA µg/kg	PFHpA µg/kg	PFTeDA µg/kg	PFHxDA µg/kg
FSAWF198	Brown Crab	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF26201	Brown Crab	< 0.100	0.11	< 0.101	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF26203	Brown Crab	0.12	0.24	< 0.102	0.32	0.15	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF26237	Brown Crab	0.11	0.12	< 0.103	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF26238	Brown Crab	< 0.100	< 0.100	< 0.104	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100

Sample Number	PFODA µg/kg	PFPeS µg/kg	PFHpS µg/kg	PFNS µg/kg	PFDS µg/kg	PFUnDS µg/kg	PFDODS µg/kg	PFTTrDS µg/kg	F-53 B Major µg/kg	F-53 B Minor µg/kg	HFPO-DA µg/kg	ADONA µg/kg
FSAWF198	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF26201	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF26203	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF26237	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF26238	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100

Sample Number	PF-3,7-DMOA µg/kg	4:2 FTS µg/kg	6:2 FTS µg/kg	8:2 FTS µg/kg	10:2 FTS µg/kg	PFAS (32) Total µg/kg
FSAWF198	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected
FSAWF26201	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	0.38
FSAWF26203	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	3.8*
FSAWF26237	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	0.43
FSAWF26238	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	0.10

Note: It was not possible to confirm whether both the appendages and abdomen or only the appendages of the crabs were taken for testing.

Dublin Bay Prawn

Sample Number	Species	PFDA µg/kg	PFUnDA µg/kg	PFDoDA µg/kg	PFTTrDA µg/kg	PFBS µg/kg	PFBA µg/kg	PFPeA µg/kg	PFHxA µg/kg	PFHpA µg/kg	PFTeDA µg/kg	PFHxDA µg/kg
FSAWF182	Dublin Bay Prawn	< 0.100	0.15	0.12	0.34	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF185	Dublin Bay Prawn	< 0.101	0.11	< 0.100	0.31	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF186	Dublin Bay Prawn	< 0.102	0.16	0.13	0.42	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF187	Dublin Bay Prawn	< 0.103	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF196	Dublin Bay Prawn	< 0.104	0.19	0.18	0.60	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF199	Dublin Bay Prawn	< 0.105	0.13	0.11	0.38	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100

Sample Number	PFODA µg/kg	PFPeS µg/kg	PFHpS µg/kg	PFNS µg/kg	PFDS µg/kg	PFUnDS µg/kg	PFDoDS µg/kg	PFTTrDS µg/kg	F-53 B Major µg/kg	F-53 B Minor µg/kg	HFPO-DA µg/kg	ADONA µg/kg
FSAWF182	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF185	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF186	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF187	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF196	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF199	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100

Sample Number	PF-3,7-DMOA µg/kg	4:2 FTS µg/kg	6:2FTS µg/kg	8:2 FTS µg/kg	10:2 FTS µg/kg	PFAS (32) Total µg/kg
FSAWF182	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	0.61
FSAWF185	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	0.42
FSAWF186	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	0.81
FSAWF187	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected
FSAWF196	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	1.1
FSAWF199	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	0.74

Eel

Sample Number	Species	PFDA µg/kg	PFUnDA µg/kg	PFDoDA µg/kg	PFTTrDA µg/kg	PFBS µg/kg	PFBA µg/kg	PFPeA µg/kg	PFHxA µg/kg	PFHpA µg/kg	PFTeDA µg/kg	PFHxDA µg/kg
811CN/A/2760	Eel	0.22	0.26	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
811CN/A/2761	Eel	0.26	0.34	0.10	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
811CN/A/2762	Eel	0.25	0.36	0.14	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
811CN/A/2763	Eel	0.19	0.258	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100

Sample Number	PFODA µg/kg	PFPeS µg/kg	PFHpS µg/kg	PFNS µg/kg	PFDS µg/kg	PFUnDS µg/kg	PFDoDS µg/kg	PFTTrDS µg/kg	F-53 B Major µg/kg	F-53 B Minor µg/kg	HFPO-DA µg/kg	ADONA µg/kg
811CN/A/2760	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
811CN/A/2761	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
811CN/A/2762	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
811CN/A/2763	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100

Sample Number	PF-3,7-DMOA µg/kg	4:2 FTS µg/kg	6:2FTS µg/kg	8:2 FTS µg/kg	10:2 FTS µg/kg	PFAS (32) Total µg/kg
811CN/A/2760	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	2.1
811CN/A/2761	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	2.9
811CN/A/2762	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	2.5
811CN/A/2763	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	1.79

Herring

Sample Number	Species	PFDA µg/kg	PFUnDA µg/kg	PFDoDA µg/kg	PFTTrDA µg/kg	PFBS µg/kg	PFBA µg/kg	PFPeA µg/kg	PFHxA µg/kg	PFHpA µg/kg	PFTeDA µg/kg	PFHxDA µg/kg
FSAWF26205	Herring	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF26207	Herring	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF26209	Herring	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF26211	Herring	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF26213	Herring	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF26215	Herring	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100

Sample Number	PFODA µg/kg	PFPeS µg/kg	PFHpS µg/kg	PFNS µg/kg	PFDS µg/kg	PFUnDS µg/kg	PFDoDS µg/kg	PFTTrDS µg/kg	F-53 B Major µg/kg	F-53 B Minor µg/kg	HFPO-DA µg/kg	ADONA µg/kg
FSAWF26205	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF26207	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF26209	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF26211	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF26213	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF26215	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100

Sample Number	PF-3,7-DMOA µg/kg	4:2 FTS µg/kg	6:2FTS µg/kg	8:2 FTS µg/kg	10:2 FTS µg/kg	PFAS (32) Total µg/kg
FSAWF26205	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected
FSAWF26207	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected
FSAWF26209	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected
FSAWF26211	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected
FSAWF26213	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected
FSAWF26215	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected

King Scallop

Sample Number	Species	PFDA µg/kg	PFUnDA µg/kg	PFDoDA µg/kg	PFTTrDA µg/kg	PFBS µg/kg	PFBA µg/kg	PFPeA µg/kg	PFHxA µg/kg	PFHpA µg/kg	PFTeDA µg/kg	PFHxDA µg/kg
FSAWF26218	King Scallop	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF26220	King Scallop	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF26222	King Scallop	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100

Sample Number	PFODA µg/kg	PFPeS µg/kg	PFHpS µg/kg	PFNS µg/kg	PFDS µg/kg	PFUnDS µg/kg	PFDoDS µg/kg	PFTTrDS µg/kg	F-53 B Major µg/kg	F-53 B Minor µg/kg	HFPO-DA µg/kg	ADONA µg/kg
FSAWF26218	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF26220	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF26222	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100

Sample Number	PF-3,7-DMOA µg/kg	4:2 FTS µg/kg	6:2FTS µg/kg	8:2 FTS µg/kg	10:2 FTS µg/kg	PFAS (32) Total µg/kg
FSAWF26218	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected
FSAWF26220	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected
FSAWF26222	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected

Mackerel

Sample Number	Species	PFDA µg/kg	PFUnDA µg/kg	PFDoDA µg/kg	PFTTrDA µg/kg	PFBS µg/kg	PFBA µg/kg	PFPeA µg/kg	PFHxA µg/kg	PFHpA µg/kg	PFTeDA µg/kg	PFHxDA µg/kg
FSAWF26224	Mackerel	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF26226	Mackerel	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF26228	Mackerel	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF26230	Mackerel	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
FSAWF26232	Mackerel	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100

Sample Number	PFODA µg/kg	PFPeS µg/kg	PFHpS µg/kg	PFNS µg/kg	PFDS µg/kg	PFUnDS µg/kg	PFDoDS µg/kg	PFTTrDS µg/kg	F-53 B Major µg/kg	F-53 B Minor µg/kg	HFPO-DA µg/kg	ADONA µg/kg
FSAWF26224	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF26226	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF26228	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF26230	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
FSAWF26232	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100

Sample Number	PF-3,7-DMOA µg/kg	4:2 FTS µg/kg	6:2FTS µg/kg	8:2 FTS µg/kg	10:2 FTS µg/kg	PFAS (32) Total µg/kg
FSAWF26224	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected
FSAWF26226	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	0.11
FSAWF26228	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected
FSAWF26230	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected
FSAWF26232	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected

Mussels

Sample Number	Species	PFDA µg/kg	PFUnDA µg/kg	PFDODA µg/kg	PFTTrDA µg/kg	PFBS µg/kg	PFBA µg/kg	PFPeA µg/kg	PFHxA µg/kg	PFHpA µg/kg	PFTeDA µg/kg	PFHxDA µg/kg
Narrow water Wild Fisheries (NWF)	Mussels	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100

Sample Number	PFODA µg/kg	PFPeS µg/kg	PFHpS µg/kg	PFNS µg/kg	PFDS µg/kg	PFUnDS µg/kg	PFDODS µg/kg	PFTTrDS µg/kg	F-53 B Major µg/kg	F-53 B Minor µg/kg	HFPO-DA µg/kg	ADONA µg/kg
Narrow water Wild Fisheries (NWF)	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100

Sample Number	PF-3,7-DMOA µg/kg	4:2 FTS µg/kg	6:2FTS µg/kg	8:2 FTS µg/kg	10:2 FTS µg/kg	PFAS (32) Total µg/kg
Narrow water Wild Fisheries (NWF)	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected

Oysters

Sample Number	Species	PFDA µg/kg	PFUnDA µg/kg	PFDODA µg/kg	PFTTrDA µg/kg	PFBS µg/kg	PFBA µg/kg	PFPeA µg/kg	PFHxA µg/kg	PFHpA µg/kg	PFTeDA µg/kg	PFHxDA µg/kg
C7 AFFNI73	Oysters	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100
C11 AFFNI84	Oysters	< 0.100	< 0.100	< 0.100	< 0.300	< 0.100	< 0.300	< 0.300	< 0.100	< 0.100	< 0.300	< 0.100

Sample Number	PFODA µg/kg	PFPeS µg/kg	PFHpS µg/kg	PFNS µg/kg	PFDS µg/kg	PFUnDS µg/kg	PFDODS µg/kg	PFTTrDS µg/kg	F-53 B Major µg/kg	F-53 B Minor µg/kg	HFPO-DA µg/kg	ADONA µg/kg
C7 AFFNI73	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100
C11 AFFNI84	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.500	< 0.100

Sample Number	PF-3,7-DMOA µg/kg	4:2 FTS µg/kg	6:2FTS µg/kg	8:2 FTS µg/kg	10:2 FTS µg/kg	PFAS (32) Total µg/kg
C7 AFFNI73	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected
C11 AFFNI84	< 0.100	< 0.100	< 0.300	< 0.300	< 0.500	None detected