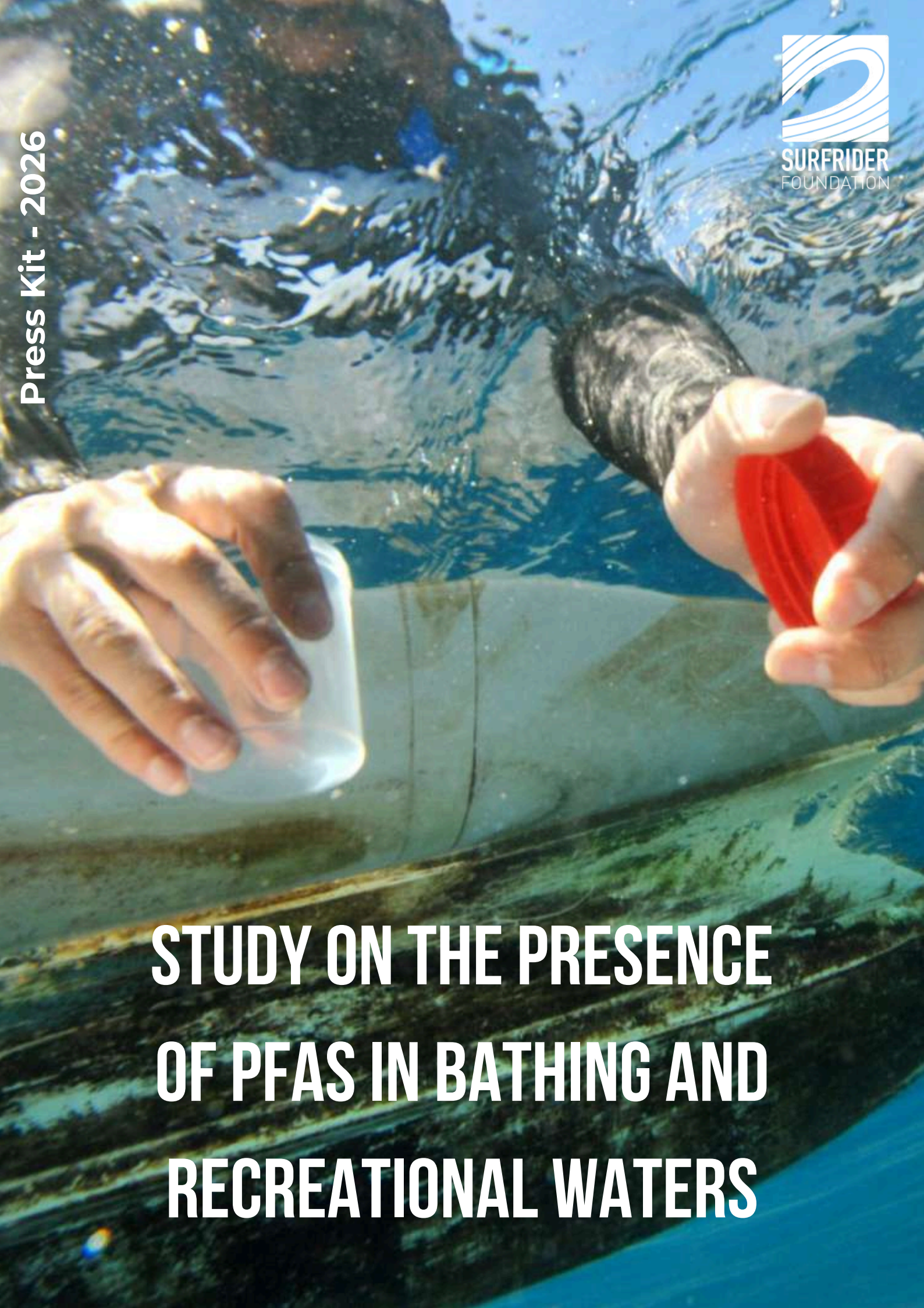


Press Kit - 2026

SURFRIDER FOUNDATION

STUDY ON THE PRESENCE OF PFAS IN BATHING AND RECREATIONAL WATERS

IMPORTANT NOTE TO THE EDITORS

"The data presented in this report are based on citizen-led sampling campaigns carried out in accordance with a clearly defined protocol, and on analyses conducted in an accredited laboratory in accordance with current standards. The findings and conclusions of the report are the sole responsibility of the authors and Surfrider Foundation Europe. These conclusions may change in line with scientific advances, improved understanding of PFAS and developments in regulatory frameworks."

Surfrider Foundation Europe is an environmental NGO that has been working on the ground and with institutions for over 35 years to protect the Ocean. Our commitmentis centred on three priorities: tackling plastic pollution at source, taking action to ensure a healthy aquatic environment, and preserving coastlines in the face of the challenges posed by climate change.

Our scientific expertise, combined with strong public engagement through our citizen science initiatives, enables us to produce independent data that informs our policy advocacy towards local, national and European institutions, with a view to bringing about changes to the legislative framework.

As water-based recreational activities are becoming increasingly popular in France and across Europe, Surfrider monitors the situation and works on a daily basis to push for more ambitious legislation on the quality of our aquatic environments, to ensure healthy waters for everyone.

Water pollution – whether chemical, bacteriological or biological – is an often invisible and widely underestimated phenomenon. It can affect the entire water cycle, having a direct impact not only on aquatic ecosystems (flora and fauna) but also on the health of those taking part in water sports and/or swimmers.

In this context, and in response to the growing concerns of our community, Surfrider Europe has launched a nationwide sampling campaign in France, aimed at improving our understanding of the presence of PFAS in aquatic environments.

TABLE OF CONTENTS

INTRODUCTION

As the quality of aquatic environments continues to deteriorate, PFAS – a family of several thousand synthetic chemical compounds that are particularly mobile and persistent – are among the most worrying emerging contaminants. Due to their extreme persistence in the environment and their wide range of industrial uses, these 'forever chemicals' are widely dispersed in water, soil and air. The available scientific data, together with alerts raised by both public authorities and civil society, highlight widespread environmental contamination and growing health risks, stemming from multiple routes of exposure (ingestion, inhalation or skin contact).

Recent studies carried out in Europe have confirmed the widespread presence of PFAS in soil, air, food or drinking water. However, knowledge regarding their presence in bathing waters and recreational areas has, until now, remained limited. The ubiquity and persistence of these pollutants therefore raise numerous questions regarding the risks of exposure for bathers and water sports users.

This is why Surfrider Foundation Europe and Eurofins Hydrologie France partnered to assess the presence of PFAS in bathing waters, on the coast in lakes and rivers.

METHODOLOGY

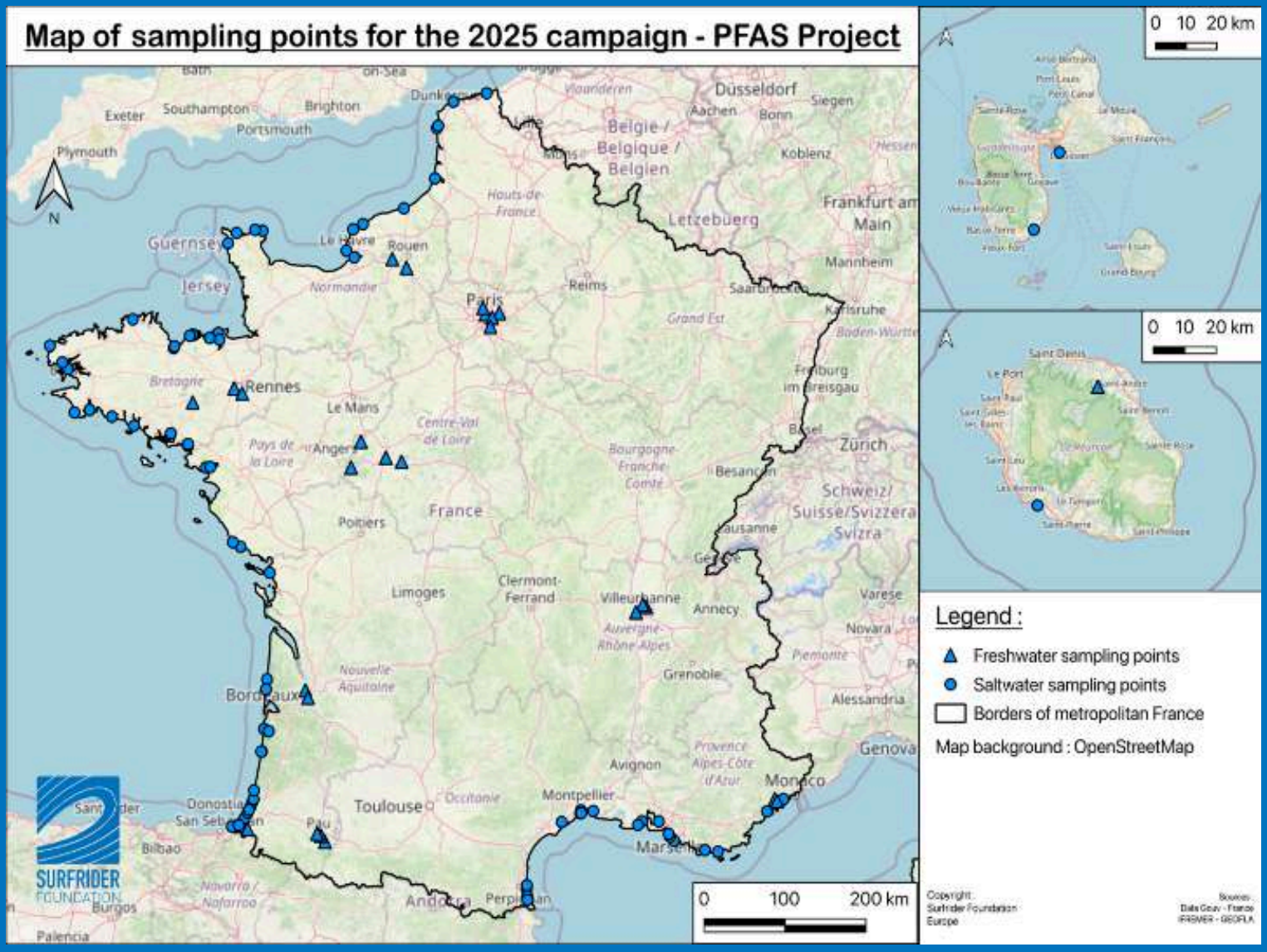
From site identification to sample analysis, and sampling campaigns: a supervised, participatory and collaborative methodology

To improve our understanding of the presence of PFAS in aquatic environments, and more specifically in areas used for swimming and water sports, Surfrider drew on 80 volunteers of its network, present on the field. A total of 107 samples were taken between June and July 2025 at 80 coastal sites and 27 lake and river sites in France (mainland and overseas territories).

The sites were selected by cross-referencing several parameters: existing data on PFAS in surface waters (drawn from the European Forever Pollution Project investigation), the presence of local Surfrider volunteer groups across the country, and official bathing sites and areas of high recreational importance (sites officially designated as such by the French Ministry of Health, supplemented by sites where such practices are reported by our volunteers in the field, which are not monitored as they are not included on the official list).

The samplers, who had received prior training in sampling techniques, followed a standardised protocol based on the recommendations of the Eurofins laboratory to ensure compliance with sampling conditions. The samples were sent to the Eurofins Food and Feed Testing Sweden AB laboratory for analysis.

In total, 58 PFAS and derivatives were analysed at 107 sites, representing a dataset of over 6,200 results.



MAP OF THE 107 SAMPLING POINTS FOR THE 2025 PFAS CAMPAIGN CARRIED OUT BY SURFRIDER

STUDY RESULTS

CHEMICAL STATUS OF THE TESTED AREAS

Exceedances of PFOS concentration limits raise wider concerns about the chemical status of our recreational waters

Chemical pollution of aquatic environments places significant pressure on ecosystems, due to the diversity and toxicity of the substances emitted into the water. Environmental quality standards (EQS) are set out in European legislation aimed at halting the deterioration of the condition of water bodies in the EU: the Water Framework Directive (Directive 2000/60/EC). These standards enable the chemical quality (good or poor) of coastal and inland waters to be assessed.

At the time of our study and analyses, **PFOS** was still the only indicator substance covered by the WFD that belonged to the PFAS family (an update to the list of priority substances for surface water and groundwater, adopted earlier this year, has since expanded this list to include 25 specific PFAS)

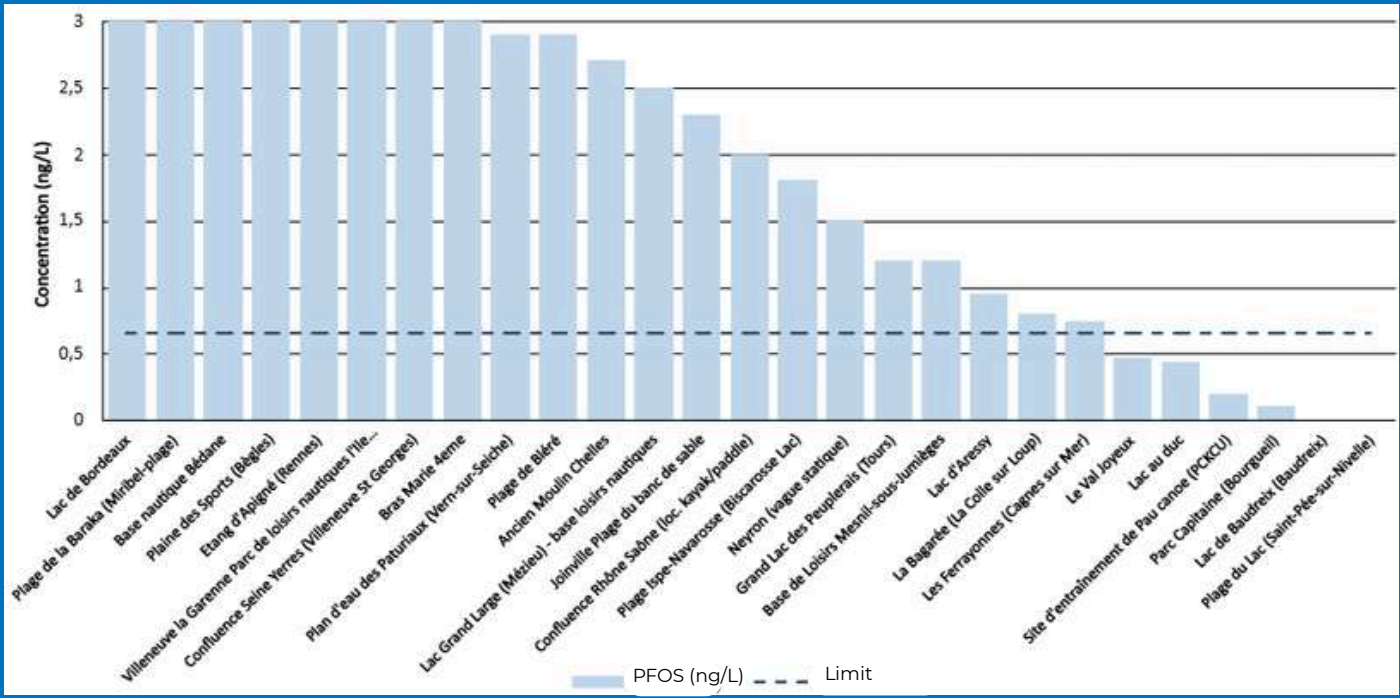
This chemical pollutant was detected in most of our samples – 62% of the sites analysed – despite restrictions at European (REACH) and international (Stockholm Convention) levels. It remains the **third most frequently observed PFAS in the samples, behind TFA and PFOA.** The PFOS concentrations measured in inland and coastal waters from our sampling campaigns range from 0.1 ng.L^{-1} (LD) to 26 ng.L^{-1}.

The maximum permitted levels for PFOS set out by the WFD (0.65 ng.L^{-1} for marine waters and 0.13 ng.L^{-1} for inland waters) were exceeded at 78% of the inland sites and 44% of the coastal sites tested. A significant number of the sites tested are therefore subject to pressure from PFOS pollution and could **be considered to be in "poor chemical status" according to the European standards taken into account in our study.**

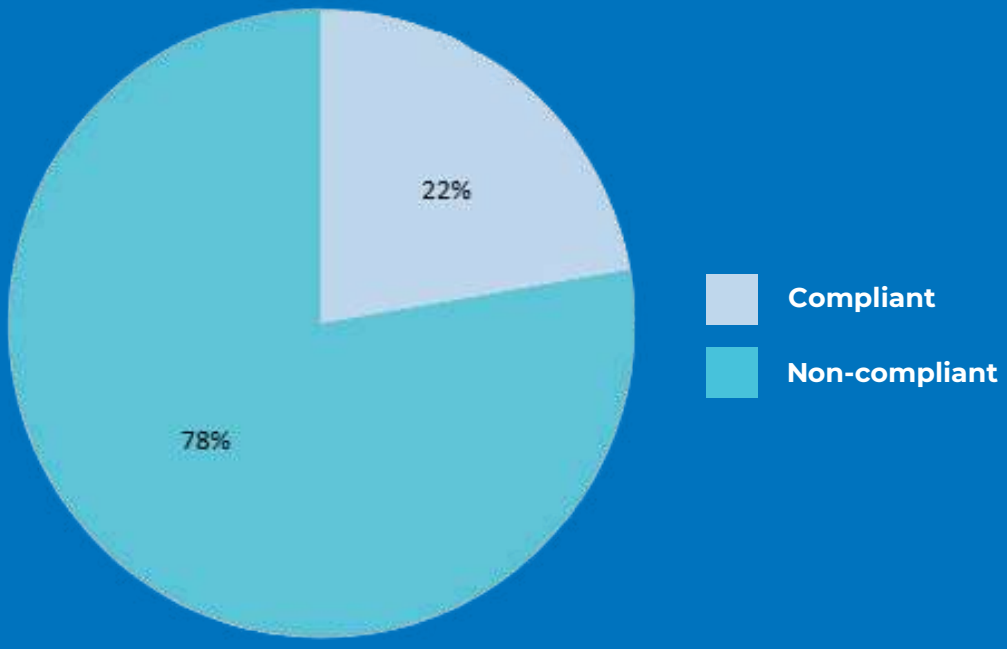
Conclusions

PFOS and PFOA are two well-known substances that have been subject to bans for several years. Yet they are still among the most frequently identified PFAS in our samples, and at high concentrations. These results highlight the irreversible effects of these chemical pollutants and the need for swift and comprehensive action.

It is no coincidence that PFAS are described as 'forever pollutants': their persistence in the environment means that the effects of reduction measures will only become apparent in the long term. **The longer action is delayed, the more deeply entrenched the contamination becomes; it is therefore essential to act now.**



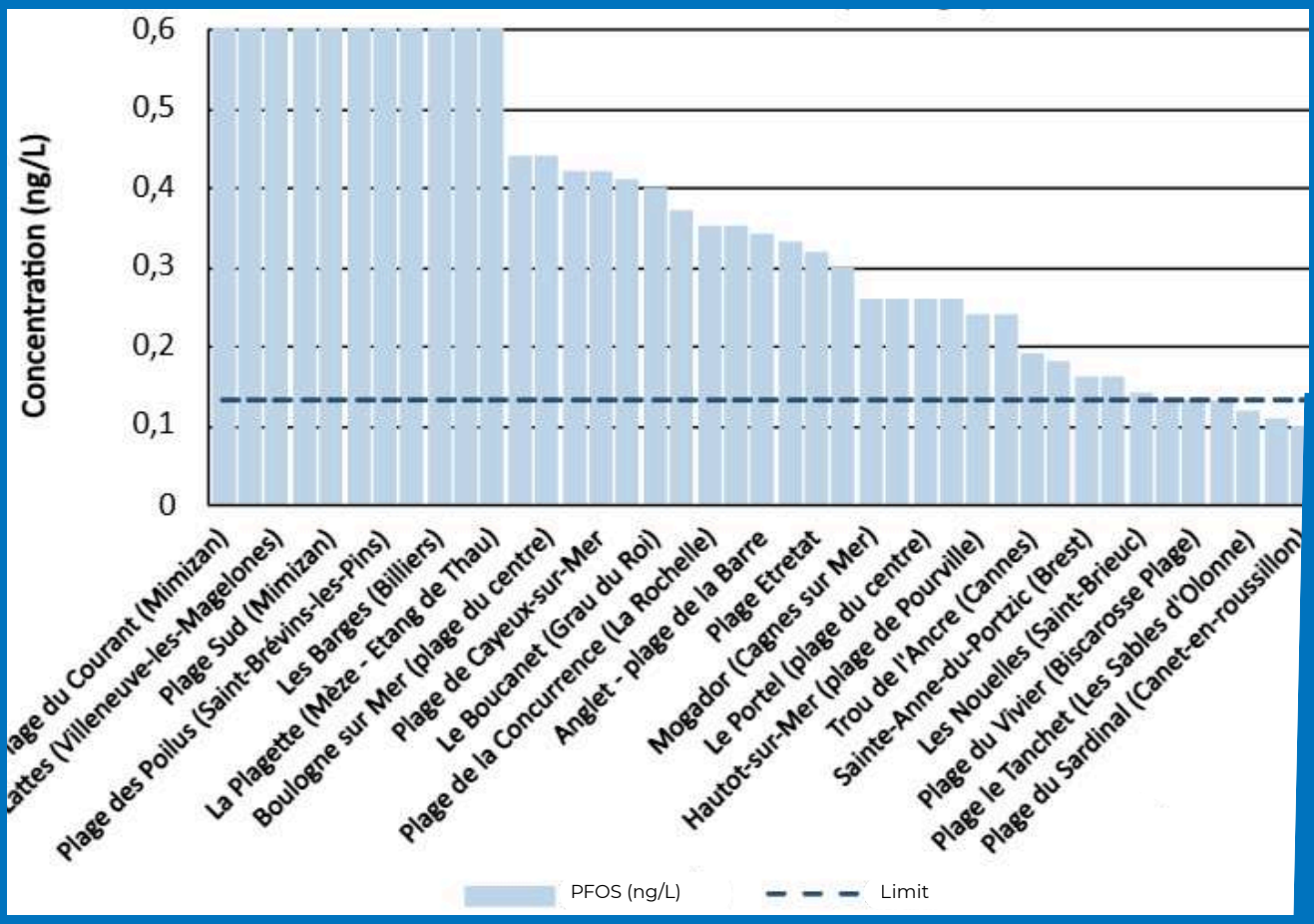
PFOS PRESENCE IN FRESHWATER : A CLOSER LOOK AT THE THRESHOLD SET BY THE WFD (0.65 NG/L)



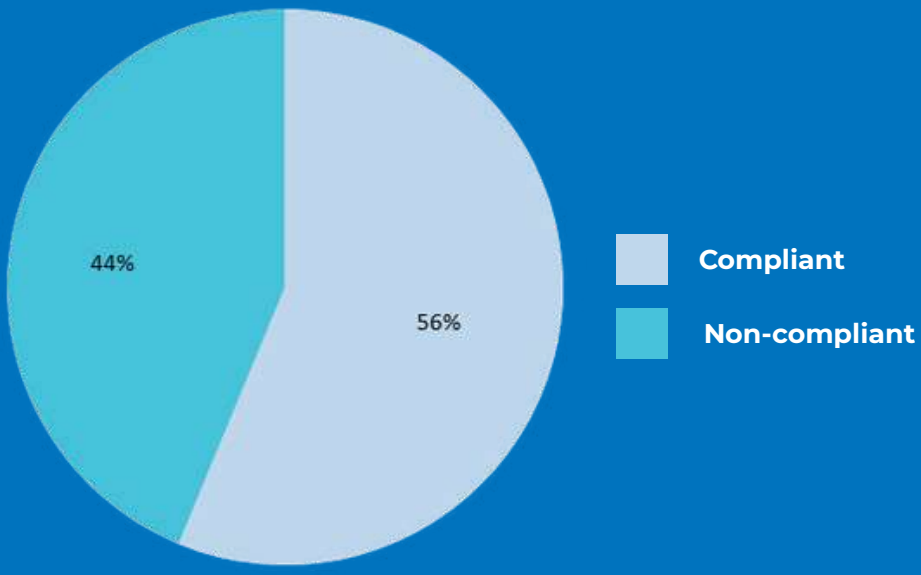
COMPLIANCE OF PFOS LEVELS WITH THE WFD THRESHOLD IN 27 FRESHWATER SITES

Key to understanding: The concentration measured at each site is compared with the environmental quality standard (EQS) set by the Water Framework Directive (WFD) in force at the time the study was carried out. This standard distinguishes between two situations depending on the environment: 0.65 ng/L for inland waters and 0.13 ng/L for coastal waters. PFOS is classified here as a priority hazardous substance, reflecting the high level of concern it raises. A site is classified as non-compliant (poor chemical status) e when its concentration exceeds the threshold applicable to its situation. Are presented : a histogram centred on the lower values, excluding insignificant values, so as to make the threshold line clearly visible; and a pie chart summarising the proportion of non-compliant sites.

Since then, the list of priority substances for surface and groundwater under the WFD was updated and formally adopted in March 2026. It extends the list of priority substances to new pollutants, with corresponding EQS, including the sum of 25 PFAS.



PFOS PRESENCE IN COASTAL WATERS: A CLOSER LOOK AT THE THRESHOLD SET BY THE WFD (0.65 NG/L)



COMPLIANCE OF PFOS LEVELS WITH THE WFD THRESHOLD IN 80 COASTAL WATERS SITES

Key to understanding: The concentration measured at each site is compared with the environmental quality standard (EQS) set by the Water Framework Directive (WFD) in force at the time the study was carried out. This standard distinguishes between two situations depending on the environment: 0.65 ng/L for inland waters and 0.13 ng/L for coastal waters. PFOS is classified here as a priority hazardous substance, reflecting the high level of concern it raises. A site is classified as non-compliant (poor chemical status) e when its concentration exceeds the threshold applicable to its situation. Are presented : a histogram centred on the lower values, excluding insignificant values, so as to make the threshold line clearly visible; and a pie chart summarising the proportion of non-compliant sites.

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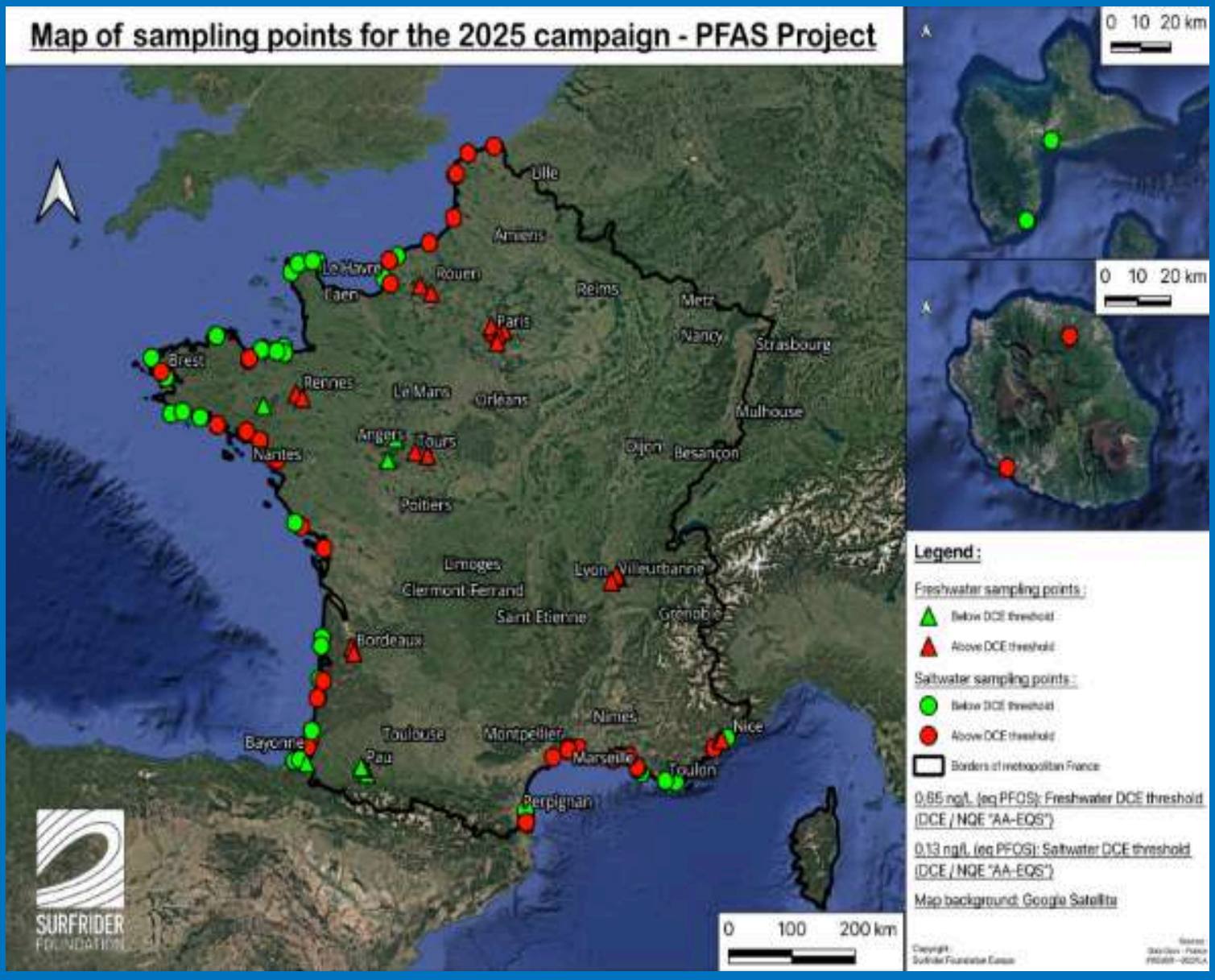


MAP OF THE CHEMICAL STATUS OF THE 107 SAMPLING SITES STUDIED DURING THE 2025 PFAS CAMPAIGN CARRIED OUT BY SURFRIDER

A WIDE DIVERSITY OF PFAS

A variety of PFAS and degradation products has been detected. One of these molecules, TFA, is ubiquitous in aquatic environments.

Developed for their specific characteristics and properties, PFAS are used in a wide range industrial sectors and consumer products. This large variety makes their identification, environmental monitoring and the assessment of their health effects particularly complex. Furthermore, the ban on certain compounds of concern or toxic has prompted the industrial sector to develop numerous substitute products, which are now found in the environment and are proving to be just as toxic.

As part of the study, **58 different molecules and degradation products were subjected to were thoroughly analysed** to quantify them in accordance with standardised analytical methods. **The contamination observed is very diverse**. **Up to 19 different molecules have been observed at the same site.** In total, **23 PFAS were quantified across all sites**.

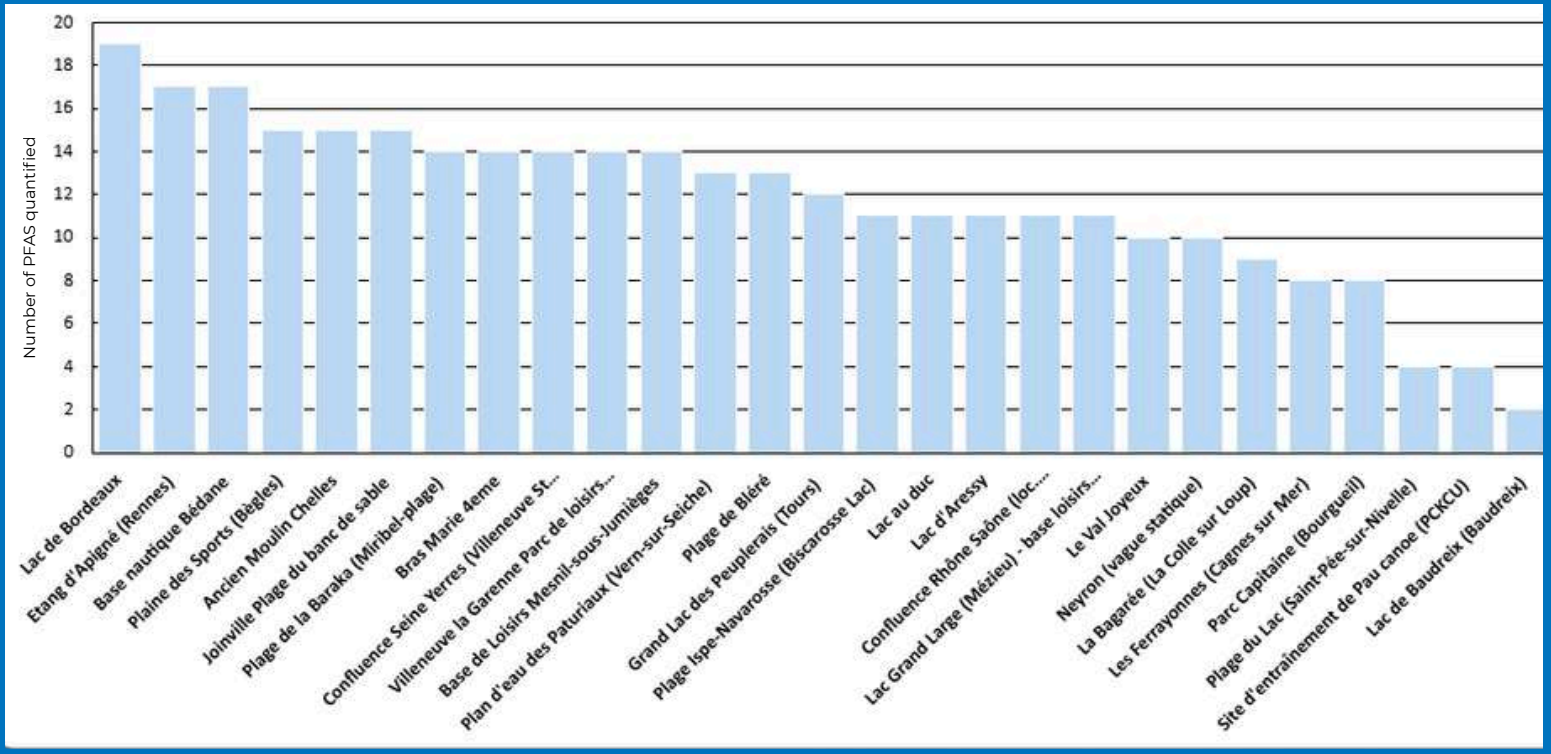
The example of **TFA** is a striking. It was **found in 100% of samples at very high concentrations compared with other PFAS. It regularly exceeded 1,000 ng.L-1 with an average of 707 ng.L-1. Concentrations ranged from 180 ng.L^{-1} (coastal site) to 5,800 ng.L^{-1} (continental site).**

Conclusions

The **detection of around twenty PFAS and their degradation products in the areas sampled highlights the limitations of the current regulatory framework**. The results confirm that a legislation based on substance-by-substance approach is not sufficient to effectively address the scale of this pollution, its extent and impacts of which are still being uncovered.

In light of recent news regarding the ECHA's new classification of TFA as toxic to reproduction (category 1B), its widespread presence across all our samples provides further evidence of the concerns surrounding this compound, as well as a proof of the need to take action as soon as possible.

Finally, whilst several recent reports have highlighted the presence of PFAS in drinking water, soil and food, our coastal samples provide a further insight to the extent of this chemical pollution. **The marine environment is still too often overlooked. Yet it, too, is heavily contaminated by PFAS at concentrations that were previously unsuspected.**

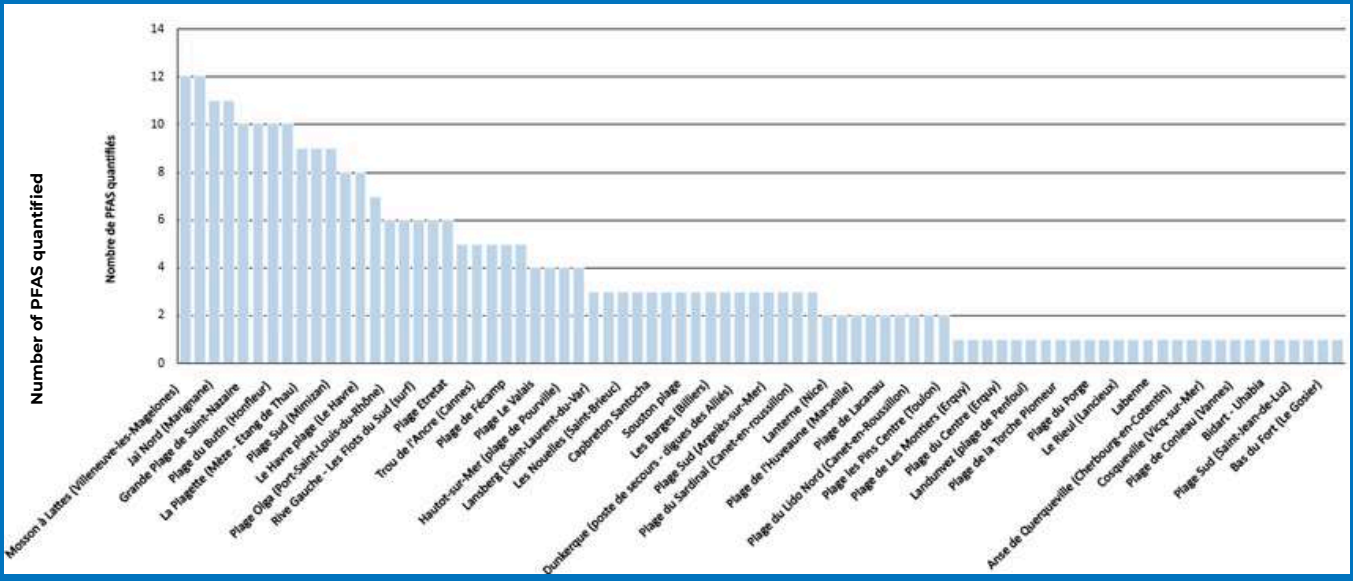


NUMBER OF PFAS QUANTIFIED PER FRESHWATER SITE

Rank	PFAS	Sites number	Frequency
1	**TFA**	27	100,00%
2	PFOS	25	92,60%
3	PFOA	25	92,60%
4	PFHxS	25	92,60%
5	PFHxA	24	88,90%

RANKING OF THE MOST COMMONLY FOUND PFAS ON FRESHWATER SITES

Key to understanding: For each site, the number of PFAS detected at a concentration above the laboratory's limit of quantification is recorded. The analytical panel covers all the PFAS analysed by the Eurofins laboratory. The rankings presented above identify the substances detected at the greatest number of sites, indicating the corresponding frequency, i.e. the proportion of sites concerned.



NUMBER OF PFAS QUANTIFIED PER COASTAL WATER SITE

Rank	PFAS	Sites number	Frequency
1	**TFA**	80	100,00%
2	PFOA	51	63,80%
3	PFOS	41	51,20%
4	PFHxS	26	32,50%
5	PFHxA	22	27,50%

RANKING OF THE MOST COMMONLY FOUND PFAS ON COSTAL WATER SITES

Rank	PFAS	Sites number	Frequency
1	**TFA**	107	100,00%
2	PFOA	76	71,00%
3	PFOS	66	61,70%
4	PFHxS	51	47,70%
5	PFHxA	46	43,00%

RANKING OF THE MOST COMMONLY FOUND PFAS ON EVERY STUDIED SITES

Key to understanding: For each site, the number of PFAS detected at a concentration above the laboratory's limit of quantification is recorded. The analytical panel covers all the PFAS analysed by the Eurofins laboratory. The rankings presented above identify the substances detected at the greatest number of sites, indicating the corresponding frequency, i.e. the proportion of sites concerned.

LEVELS OF CHEMICAL CONTAMINATION IN BATHING AND RECREATIONAL WATERS

PFAS in bathing waters: widely detected presence

PFAS may pose a potential risk to people exposed to contaminated water. In recent years in the Netherlands, PFAS contamination has led the authorities to introduce specific management measures, including restrictions (bans or advisories) on swimming and recreational activities. In response to growing concerns about the presence of PFAS in recreational water bodies, the Dutch National Institute for Public Health and the Environment (RIVM) has developed a tool to support the management bathing water quality based on indicative recommended values. **For coastal and freshwater bodies, the guideline value adopted is 280 ng PEQ.L^{-1}.**

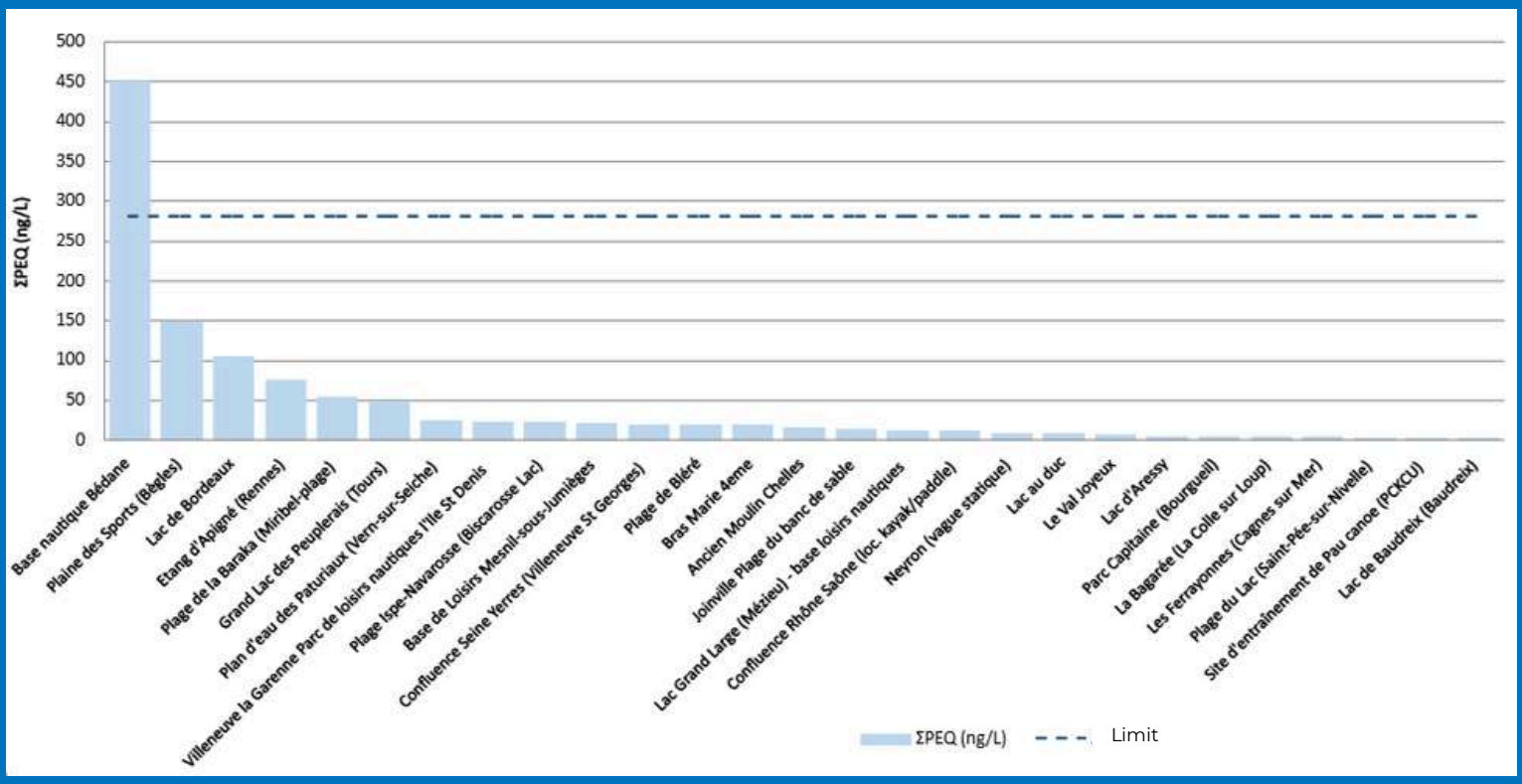
Applying these Dutch assessment standards to French bathing sites has yielded unequivocal results. **All sites present values higher than 0, with concentrations at coastal sites ranging from 0.36 to 18.9 ng PEQ.L-1 and from 0.74 to 450 ng PEQ.L-1 at inland sites.**

In total, **21 sites have concentrations ranging from 10 to 105 ng PEQ.L-1, 80% of which are inland sites.** Of all the samples taken, one site, located on a lake , significantly exceeds the guideline value set by the Dutch authorities.

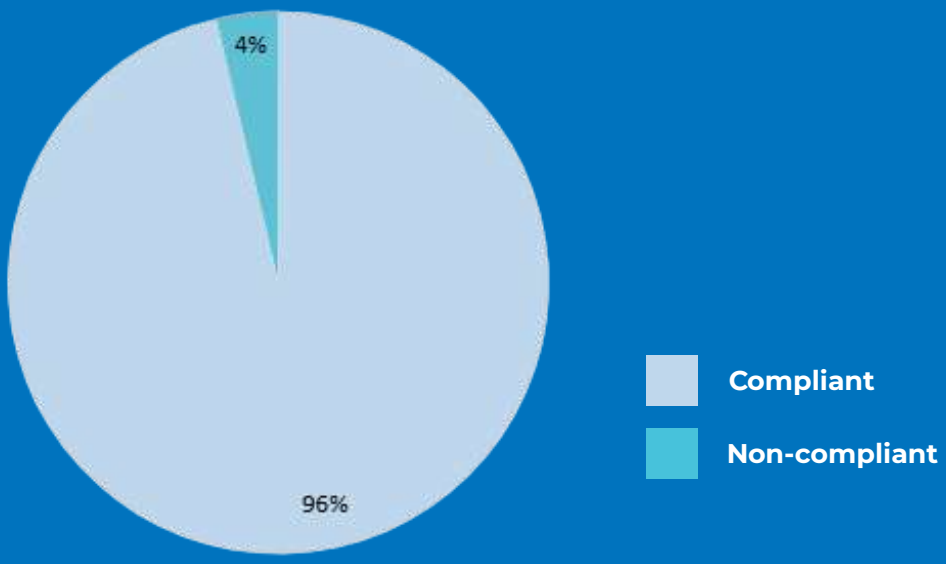
Conclusions

PFAS were detected at all the sites studied, with varying levels of contamination. One site would even exceed the Dutch authorities' recommendations if French bathing waters were governed by a similar framework.

Despite these findings, **there is currently no harmonised framework for the monitoring or management of PFAS in bathing waters at European level.** This study highlights the value of complementing existing health monitoring schemes with **targeted PFAS analyses in order to better characterise chemical pollution in different regions and to guide appropriate management measures**. Such monitoring must be based on harmonised standards and protocols at European level in order to provide the best possible support to the authorities managing these bathing and recreational sites.

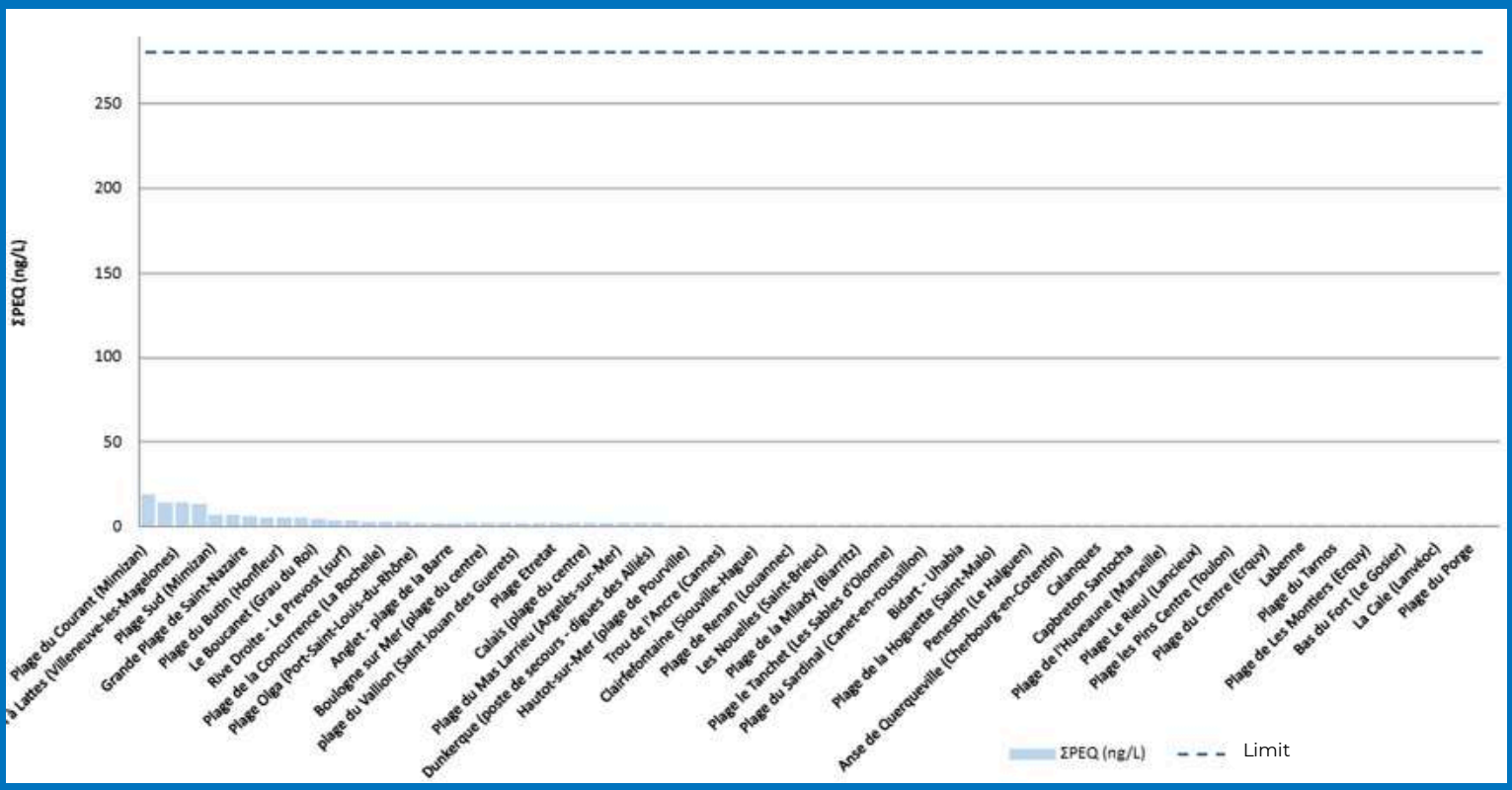


CUMULATIVE TOXIC EQUIVALENT COEFFICIENT FOR PFAS ON FRESHWATER SITES

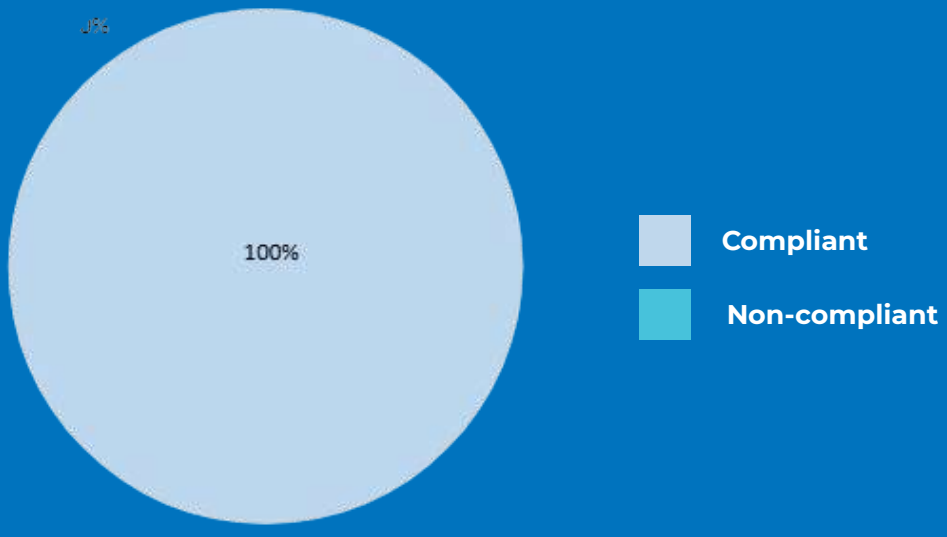


COMPLIANCE OF FRESHWATER SITES WITH THE CONCENTRATION THRESHOLDS SET BY THE RIVM

Key to understanding: For each sample, the concentration of each of the 26 PFAS studied is multiplied by its relative potency factor (RPF), a coefficient that expresses its toxicity relative to a reference molecule, PFOA, as established by the RIVM. The sum of these products provides a cumulative toxic equivalent, known as ΣPEQ and expressed in ng PFOA-equivalent per litre, which is then compared with the threshold of 280 ng/L applicable to surface waters. The corresponding histograms are presented on a full scale, up to the threshold of 280 ng/L, and the sites are ranked in descending order of value. The proposed guideline values address growing health concerns linked to recreational activities by providing a method for assessing bathing water quality.



CUMULATIVE TOXIC EQUIVALENT COEFFICIENT FOR PFAS ON COASTAL WATER SITES



COMPLIANCE OF COASTAL WATER SITES WITH THE CONCENTRATION THRESHOLDS SET BY THE RIVM

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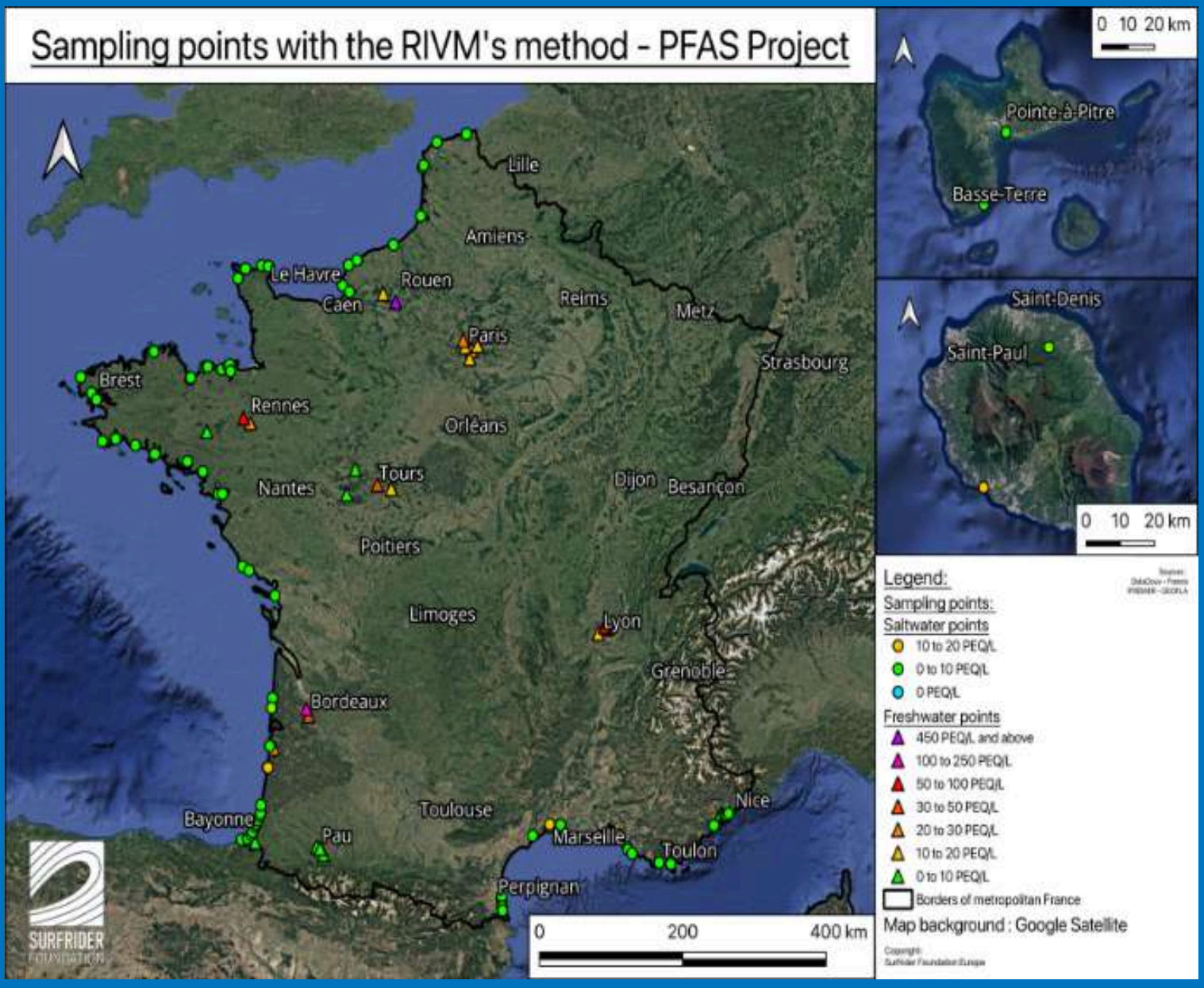

MAP OF THE STATUS OF THE BATHING SITES SURVEYED, BASED ON THEIR CUMULATIVE TOXIC EQUIVALENT CONCENTRATION OF PFAS (CALCULATED USING THE RIVM METHOD)

3 QUESTIONS FOR LUCILLE LABAYLE, WATER QUALITY AND HEALTH POLICY OFFICER

Why was this study carried out?

PFAS pollution is a major health and environmental issue for our societies. Whilst awareness of these 'forever chemicals' is gradually growing, their presence in bathing and recreational waters across Europe remains largely unknown. This is why Surfrider has decided to carry out a study aimed at improving our understanding of the presence of PFAS in aquatic environments.

What lessons have you learnt from this?

Assessing the presence of PFAS in bathing and recreational waters sheds new light on this chemical pollution and provides further evidence of its scale and severity. The health of the Ocean and its users must no longer be overlooked. Our findings unanimously indicate that the only viable solution for the long-term protection of our health and that of ecosystems is prevention at source.

What measures are needed to prevent PFAS pollution?

TThe findings of this study are eye-opening. By publishing this data, we aim to draw the attention of decision-makers to the urgent need to take action rapidly. More specifically:

- Take up the conclusions of ECHA by the end of the year in order to **adopt a universal restriction of PFAS as soon as possible, covering all sectors and uses, including industrial sectors**. We also call on Member States to support this ambition, so as to put a permanent stop to this pollution at source.

- **Strengthen the networks for monitoring water quality, particularly in the marine environment**; this must be accompanied by concrete actions such as the identification of sources of pollution, remediation of contaminated sites and effective implementation of the polluter-pay principle.

- **Establish harmonized PFAS monitoring protocols for bathing and recreational water in the Member States**, accompanied by complementary studies aimed at addressing the lack of data on pollution in these areas, and ultimately enabling the establishment of official European monitoring standards for the chemical quality of bathing waters. When pollution is confirmed, the European Commission and the Member States must develop plans for water remediation, while applying the "polluter pays" principle.

PRACTICAL INFORMATION

- Full report on the study will be published during the summer of 2026
- Manifesto for bathing and recreational waters quality in Europe

Link to relevant photos and videos

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CHEMICAL STATUS OF THE FRESHWATER SITES STUDIED

N° dépt	Departement	Site	PFOS (ng/L)	Compliance
6	**Alpes-Maritimes**	**La Bagarée (La Colle sur Loup)**	**0,8**	**Non compliant**
6	**Alpes-Maritimes**	**Les Ferrayonnes (Cagnes sur Mer)**	**0,74**	**Non compliant**
33	**Gironde**	**Lac de Bordeaux**	**26**	**Non compliant**
33	**Gironde**	**Plaine des Sports (Bègles)**	**10**	**Non compliant**
35	**Ille-et-Vilaine**	**Etang d'Apigné (Rennes)**	**5,9**	**Non compliant**
35	**Ille-et-Vilaine**	**Plan d'eau des Paturiaux (Vern-sur-Seiche)**	**2,9**	**Non compliant**
37	**Indre-et-Loire**	**Grand Lac des Peuplerais (Tours)**	**1,2**	**Non compliant**
37	Indre-et-Loire	Lac du Val Joyeux (Château-la-Vallière)	0,47	Compliant
37	Indre-et-Loire	Parc Capitaine (Bourgueil)	0,11	Compliant
37	**Indre-et-Loire**	**Plage de Bléré**	**2,9**	**Non compliant**
40	**Landes**	**Plage Ispe-Navarosse (Biscarosse Lac)**	**1,8**	**Non compliant**
56	Morbihan	Lac au duc (Ploërmel)	0,44	Compliant
64	**Béarn**	**Lac d'Aressy**	**0,95**	**Non compliant**
64	Béarn	Lac de Baudreix	<0,10	Compliant
64	Côte Basque	Plage du Lac (Saint-Pée-sur-Nivelle)	<0,10	Compliant
64	Béarn	Site d'entraînement de Pau canoe (PCKCU)	0,2	Compliant
69	**Rhône**	**Confluence Rhône Saône (loc. kayak/paddle) (Lyon)**	**2**	**Non compliant**
69	**Rhône**	**Base nautique municipale Meyzieu Grand Large**	**2,5**	**Non compliant**
69	**Rhône**	**Neyron (vague statique)**	**1,5**	**Non compliant**
69	**Rhône**	**Plage de la Baraka (Lac de Miribel plage à Neyron)**	**13**	**Non compliant**
75	**Paris**	**Bras Marie 4eme**	**3,3**	**Non compliant**
76	**Seine-Maritime**	**Base de Loisirs Mesnil-sous-Jumièges**	**1,2**	**Non compliant**
76	**Seine-Maritime**	**Base nautique Bédane**	**12**	**Non compliant**
77	**Seine-et-Marne**	**Ancien Moulin de Chelles**	**2,7**	**Non compliant**
92	**Hauts-de-Seine**	**Villeneuve la Garenne Parc de loisirs nautiques l'Ile St Denis**	**4,8**	**Non compliant**
94	**Val-de-Marne**	**Confluence Seine Yerres (Villeneuve St Georges)**	**3,9**	**Non compliant**
94	**Val-de-Marne**	**Joinville Plage du banc de sable**	**2,3**	**Non compliant**

CHEMICAL STATUS OF THE SITES STUDIED IN COASTAL WATERS

N° dept	Departement	Site	PFOS (ng/L)	Compliance
6	Alpes-Maritimes	Plage de Landsberg (Saint-Laurent-du-Var)	<0,20	Compliant
6	Alpes-Maritimes	Plage de la Lanterne (Nice)	<0,10	Compliant
6	**Alpes-Maritimes**	**Plage Mogador (Cagnes sur Mer)**	**0,26**	**Non compliant**
6	**Alpes-Maritimes**	**Trou de l'Ancre (Cannes)**	**0,19**	**Non compliant**
13	Bouches-du-Rhône	Calanque de Morgiou (Marseille)	<0,10	Compliant
13	**Bouches-du-Rhône**	**Jaï Nord (Marignane)**	**2,7**	**Non compliant**
13	**Bouches-du-Rhône**	**Plage Cavaou (Fos-sur-Mer)**	**0,61**	**Non compliant**
13	**Bouches-du-Rhône**	**Plage Olga (Port-Saint-Louis-du-Rhône)**	**0,44**	**Non compliant**
13	Bouches-du-Rhône	Plage de l'Huveaune (Marseille)	<0,10	Compliant
13	**Bouches-du-Rhône**	**Plage des Catalans (Marseille)**	**0,18**	**Non compliant**
17	**Charente-Maritime**	**Plage de la Concurrence (La Rochelle)**	**0,35**	**Non compliant**
22	**Côtes-d'Armor**	**Plage Les Nouelles (Plérin)**	**0,14**	**Non compliant**
22	Côtes-d'Armor	Plage Le Rieul Amont (Lancieux)	<0,10	Compliant
22	Côtes-d'Armor	Plage Le Rieul Aval (Lancieux)	<0,10	Compliant
22	**Côtes-d'Armor**	**Plage du Valais (Saint-Brieuc)**	**0,42**	**Non compliant**
22	Côtes-d'Armor	Plage des Montiers (Erquy)	<0,10	Compliant
22	Côtes-d'Armor	Plage de Renan (Louannec)	0,13	Compliant
22	Côtes-d'Armor	Plage des Sables d'Or Les Pins (Fréhel)	<0,10	Compliant
22	Côtes-d'Armor	Plage du Centre (Erquy)	<0,10	Compliant
29	Finistère	La Cale (Lanvéoc)	<0,10	Compliant
29	Finistère	Plage de Penfoul (Landunvez)	<0,10	Compliant
29	Finistère	Petite plage (Bénodet)	<0,10	Compliant
29	Finistère	Plage de la Torche (Plomeur)	<0,10	Compliant

CHEMICAL STATUS OF THE SITES STUDIED IN COASTAL WATERS

N° dept	Departement	Site	PFOS (ng/L)	Compliance
29	Finistère	Port Manec'h (Nevez)	<0,10	Compliant
29	**Finistère**	**Plage de Sainte-Anne-du-Portzic (Brest)**	**0,16**	**Non compliant**
33	Gironde	Plage de Lacanau	<0,10	Compliant
33	Gironde	Plage du Porge	<0,10	Compliant
34	**Hérault**	**La Plagette (Mèze - Etang de Thau)**	**0,61**	**Non compliant**
34	**Hérault**	**Le Boucanet (Grau du Roi)**	**0,4**	**Non compliant**
34	**Hérault**	**Embouchure du Lez (Lattes)**	**1,8**	**Non compliant**
34	**Hérault**	**Plage de la Rive Droite (Palavas-Les-Flots) (surf)**	**0,41**	**Non compliant**
34	**Hérault**	**Plage Rive Gauche (Palavas-Les-Flots) (surf)**	**0,3**	**Non compliant**
35	Ille-et-Vilaine	Plage du Mole (Saint-Malo)	<0,10	Compliant
35	Ille-et-Vilaine	Plage de la Hoguette (Saint-Malo)	<0,10	Compliant
35	Ille-et-Vilaine	plage du Vallion (Saint Jouan des Guerets)	<0,10	Compliant
40	Landes	Plage du Santocha (Capbreton)	<0,10	Compliant
40	Landes	Plage de Labenne	<0,10	Compliant
40	**Landes**	**Plage Sud (Mimizan)**	**1,4**	**Non compliant**
40	**Landes**	**Plage du Courant (Mimizan)**	**4,1**	**Non compliant**
40	**Landes**	**Plage du Rey (Soorts-Hossegor)**	**0,35**	**Non compliant**
40	Landes	Plage de Tarnos	<0,40	Compliant
40	Landes	Plage du Vivier (Biscarosse Plage)	0,13	Compliant
40	Landes	Plage de l'Océan (Souston)	<0,10	Compliant
44	**Loire-Atlantique**	**Grande Plage de Saint-Nazaire**	**1,4**	**Non compliant**
44	**Loire-Atlantique**	**Plage des Poilus (Saint-Brévins-les-Pins)**	**1,1**	**Non compliant**

CHEMICAL STATUS OF THE SITES STUDIED IN COASTAL WATERS

N° dept	Departement	Site	PFOS (ng/L)	Compliance
50	Manche	Anse de Querqueville (Cherbourg-en-Cotentin)	<0,10	Compliant
50	Manche	Anse de la Masse (Gatteville-le-Phare)	0,13	Compliant
50	Manche	Plage Clairfefontaine (Siouville-Hague)	<0,10	Compliant
50	Manche	Plage de Cosqueville (Vicq-sur-Mer)	<0,10	Compliant
56	**Morbihan**	**Plage des Barges (Billiers)**	**0,62**	**Non compliant**
56	Morbihan	Le Halguen (Pénestin)	<0,30	Compliant
56	Morbihan	Plage de Conleau (Vannes)	<0,30	Compliant
56	Morbihan	Thoulars (Larmor-Plage)	<0,30	Compliant
59	**Nord**	**Plage du centre (Calais)**	**0,37**	**Non compliant**
59	**Nord**	**Poste de secours - Digue des Alliés (Dunkerque)**	**0,26**	**Non compliant**
62	**Pas-de-Calais**	**Plage du centre (Boulogne-sur-Mer)**	**0,44**	**Non compliant**
62	**Pas-de-Calais**	**Plage du centre (Le Portel)**	**0,26**	**Non compliant**
64	**Côte Basque**	**Plage de la Barre (Anglet)**	**0,34**	**Non compliant**
64	Côte Basque	Plage de l'Uhabia (Bidart)	<0,10	Compliant
64	Côte Basque	Plage d'Hendaye	<0,10	Compliant
64	Côte Basque	Plage Sud (Saint-Jean-de-Luz)	<0,10	Compliant
64	Côte Basque	Plage de la Milady (Biarritz)	<0,10	Compliant
66	**Pyrénées-Orientales**	**Plage Sud (Argelès-sur-Mer)**	**0,26**	**Non compliant**
66	Pyrénées-Orientales	Plage du Lido Nord (Canet-en-Roussillon)	<0,10	Compliant
66	**Pyrénées-Orientales**	**Plage du Mas Larrieu (Argelès-sur-Mer)**	**0,33**	**Non compliant**
66	Pyrénées-Orientales	Plage du Sardinal (Canet-en-roussillon)	0,1	Compliant
76	**Seine-Maritime**	**Plage de Pourville (Hautot-sur-Mer)**	**0,24**	**Non compliant**

CHEMICAL STATUS OF THE SITES STUDIED IN COASTAL WATERS

N° dept	Departement	Site	PFOS (ng/L)	Compliance
76	Seine-Maritime	Le Havre plage	0	Compliant
76	**Seine-Maritime**	**Plage Etretat**	**0,32**	**Non compliant**
76	Seine-Maritime	Plage de Fécamp	0,11	Compliant
76	**Seine-Maritime**	**Plage du Butin (Honfleur)**	**1**	**Non compliant**
80	**Somme**	**Plage de Cayeux-sur-Mer**	**0,42**	**Non compliant**
83	Var	Plage Ceinturon est-L'Aygade (Hyères)	<0,10	Compliant
83	Var	Plage les Pins Centre (Toulon)	<0,10	Compliant
85	**Vendée**	**Plage des viviers de la mine (Talmont st Hilaire)**	**0,24**	**Non compliant**
85	Vendée	Plage le Tanchet (Les Sables d'Olonne)	0,12	Compliant
971	Guadeloupe	Bas du Fort (Le Gosier)	<0,10	Compliant
971	Guadeloupe	Plage de Salée Bananier (Capesterre-Belle-Eau)	<0,10	Compliant
974	**La Réunion**	**L'étang du Gol (Etang Salé) (Saint-Louis)**	**1,7**	**Non compliant**
974	**La Réunion**	**Rivière Sainte-Suzanne**	**0,16**	**Non compliant**

K**ey to understanding:** The concentration measured at each site is compared with the environmental quality standard (EQS) set by the Water Framework Directive (WFD) in force at the time the study was carried out. This standard distinguishes between two situations depending on the environment: 0.65 ng/L for inland waters and 0.13 ng/L for coastal waters. PFOS is classified here as a priority hazardous substance, reflecting the high level of concern it raises. A site is classified as non-compliant (poor chemical status) and highlighted in red in the table when its concentration exceeds the threshold applicable to its situation.

Since then, the list of priority substances for surface and groundwater under the WFD was updated and formally adopted in March 2026. It extends the list of priority substances to new pollutants, with corresponding EQS, including the sum of 25 PFAS.

NUMBER OF PFAS QUANTIFIED BY FRESHWATER SITE

N° dept	Departement	Site	Nb PFAS quantified
6	Alpes-Maritimes	La Bagarée (La Colle sur Loup)	**9**
6	Alpes-Maritimes	Les Ferrayonnes (Cagnes sur Mer)	**8**
33	Gironde	Lac de Bordeaux	**19**
33	Gironde	Plaine des Sports (Bègles)	**15**
35	Ille-et-Vilaine	Etang d'Apigné (Rennes)	**17**
35	Ille-et-Vilaine	Plan d'eau des Paturiaux (Vern-sur-Seiche)	**13**
37	Indre-et-Loire	Grand Lac des Peuplerais (Tours)	**12**
37	Indre-et-Loire	Lac du Val Joyeux (Château-la-Vallière)	**10**
37	Indre-et-Loire	Parc Capitaine (Bourgueil)	**8**
37	Indre-et-Loire	Plage de Bléré	**13**
40	Landes	Plage Ispe-Navarosse (Biscarosse Lac)	**11**
56	Morbihan	Lac au duc (Ploërmel)	**11**
64	Béarn	Lac d'Aressy	**11**
64	Béarn	Lac de Baudreix	**2**
64	Côte Basque	Plage du Lac (Saint-Pée-sur-Nivelle)	**4**
64	Béarn	Site d'entraînement de Pau canoe (PCKCU)	**4**
69	Rhône	Confluence Rhône Saône (loc. kayak/paddle) (Lyon)	**11**
69	Rhône	Base nautique municipale Meyzieu Grand Large	**11**
69	Rhône	Neyron (vague statique)	**10**
69	Rhône	Plage de la Baraka (Miribel-plage à Neyron)	**14**
75	Paris	Bras Marie 4eme	**14**
76	Seine-Maritime	Base de Loisirs Mesnil-sous-Jumièges	**14**
76	Seine-Maritime	Base nautique Bédane	**17**
77	Seine-et-Marne	Ancien Moulin de Chelles	**15**
92	Hauts-de-Seine	Villeneuve la Garenne Parc de loisirs nautiques l'Ile St Denis	**14**
94	Val-de-Marne	Confluence Seine Yerres (Villeneuve St Georges)	**14**
94	Val-de-Marne	Joinville Plage du banc de sable	**15**

NUMBER OF PFAS QUANTIFIED BY COASTAL SITE

N° dept	Departement	Site	Nb of PFAS quantified
6	Alpes-Maritimes	Plage de Landsberg (Saint-Laurent-du-Var)	**3**
6	Alpes-Maritimes	Plage de la Lanterne(Nice)	**2**
6	Alpes-Maritimes	Plage Mogador (Cagnes sur Mer)	**5**
6	Alpes-Maritimes	Trou de l'Ancre (Cannes)	**5**
13	Bouches-du-Rhône	Calanque de Morgiou	**2**
13	Bouches-du-Rhône	Jaï Nord (Marignane)	**11**
13	Bouches-du-Rhône	Plage Cavaou (Fos-sur-Mer)	**8**
13	Bouches-du-Rhône	Plage Olga (Port-Saint-Louis-du-Rhône)	**6**
13	Bouches-du-Rhône	Plage de l'Huveaune (Marseille)	**2**
13	Bouches-du-Rhône	Plage des Catalans (Marseille)	**3**
17	Charente-Maritime	Plage de la Concurrence (La Rochelle)	**6**
22	Côtes-d'Armor	Les Nouelles (Saint-Brieuc)	**3**
22	Côtes-d'Armor	Plage Le Rieul amont (Lancieux)	**1**
22	Côtes-d'Armor	Plage Le Rieul aval (Lancieux)	**1**
22	Côtes-d'Armor	Plage du Valais (Saint-Brieuc)	**4**
22	Côtes-d'Armor	Plage des Montiers (Erquy)	**1**
22	Côtes-d'Armor	Plage de Renan (Louannec)	**3**
22	Côtes-d'Armor	Plage des Sables d'Or Les Pins (Fréhel)	**1**
22	Côtes-d'Armor	Plage du Centre (Erquy)	**1**
29	Finistère	La Cale (Lanvéoc)	**1**
29	Finistère	Plage de Penfoul (Landunvez)	**1**
29	Finistère	Petite plage (Bénodet)	**1**
29	Finistère	Plage de la Torche (Plomeur)	**1**

NUMBER OF PFAS QUANTIFIED BY COASTAL SITE

N° dept	Departement	Site	Nb of PFAS quantified
29	Finistère	Port Manec'h (Nevez)	**1**
29	Finistère	Plage de Sainte-Anne-du-Portzic (Brest)	**2**
33	Gironde	Plage de Lacanau	**2**
33	Gironde	Plage du Porge	**1**
34	Hérault	La Plagette (Mèze - Etang de Thau)	**9**
34	Hérault	Le Boucanet (Grau du Roi)	**9**
34	Hérault	Embouchure du Lez (Lattes)	**12**
34	Hérault	Plage de la Rive Droite (Palavas-Les-Flots) (surf)	**7**
34	Hérault	Plage Rive Gauche (Palavas-Les-Flots) (surf)	**6**
35	Ille-et-Vilaine	Plage du Mole (Saint-Malo)	**1**
35	Ille-et-Vilaine	Plage de la Hoguette (Saint-Malo)	**1**
35	Ille-et-Vilaine	plage du Vallion (Saint Jouan des Guerets)	**2**
40	Landes	Plage du Santocha (Capbreton)	**3**
40	Landes	Plage de Labenne	**1**
40	Landes	Plage Sud (Mimizan)	**9**
40	Landes	Plage du Courant (Mimizan)	**12**
40	Landes	Plage du Rey (Soorts-Hossegor)	**5**
40	Landes	Plage de Tarnos	**1**
40	Landes	Plage du Vivier (Biscarosse Plage)	**3**
40	Landes	Plage de l'Océan (Souston)	**3**
44	Loire-Atlantique	Grande Plage de Saint-Nazaire	**10**
44	Loire-Atlantique	Plage des Poilus (Saint-Brévins-les-Pins)	**10**
50	Manche	Anse de Querqueville (Cherbourg-en-Cotentin)	**1**

NUMBER OF PFAS QUANTIFIED BY COASTAL SITE

N° dept	Departement	Site	Nb PFAS quantified
50	Manche	Anse de la Masse (Gatteville-le-Phare)	**3**
50	Manche	Plage Clairfefontaine (Siouville-Hague)	**1**
50	Manche	Plage de Cosqueville (Vicq-sur-Mer)	**1**
56	Morbihan	Plage des Barges (Billiers)	**3**
56	Morbihan	Le Halguen (Pénestin)	**1**
56	Morbihan	Plage de Conleau (Vannes)	**1**
56	Morbihan	Thoulars (Larmor-Plage)	**1**
59	Nord	Plage du centre (Calais)	**3**
59	Nord	Poste de secours - Digue des Alliés (Dunkerque)	**3**
62	Pas-de-Calais	Plage du centre (Boulogne-sur-Mer)	**6**
62	Pas-de-Calais	Plage du centre (Le Portel)	**3**
64	Côte Basque	Plage de la Barre (Anglet)	**4**
64	Côte Basque	Plage de l'Uhabia (Bidart)	**1**
64	Côte Basque	Plage d'Hendaye	**1**
64	Côte Basque	Plage Sud (Saint-Jean-de-Luz)	**1**
64	Côte Basque	Plage de la Milady (Biarritz)	**1**
66	Pyrénées-Orientales	Plage Sud (Argelès-sur-Mer)	**3**
66	Pyrénées-Orientales	Plage du Lido Nord (Canet-en-Roussillon)	**2**
66	Pyrénées-Orientales	Plage du Mas Larrieu (Argelès-sur-Mer)	**3**
66	Pyrénées-Orientales	Plage du Sardinal (Canet-en-roussillon)	**3**
76	Seine-Maritime	Plage de Pourville (Hautot-sur-Mer)	**4**
76	Seine-Maritime	Le Havre plage (Le Havre)	**8**
76	Seine-Maritime	Plage Etretat	**6**

NUMBER OF PFAS QUANTIFIED BY COASTAL SITE

N° dépt	Département	Site	Nb of PFAS quantified
76	Seine-Maritime	Plage de Fécamp	**5**
76	Seine-Maritime	Plage du Butin (Honfleur)	**10**
80	Somme	Plage de Cayeux-sur-Mer	**5**
83	Var	Plage Ceinturon est-L'Aygade (Hyères)	**2**
83	Var	Plage les Pins Centre (Toulon)	**2**
85	Vendée	Plage des viviers de la mine (Talmont st Hilaire)	**3**
85	Vendée	Plage le Tanchet (Les Sables d'Olonne)	**4**
971	Guadeloupe	Bas du Fort (Le Gosier)	**1**
971	Guadeloupe	Plage de Salée Bananier (Capesterre-Belle-Eau)	**1**
974	La Réunion	L'étang du Gol (Etang Salé) (Saint-Louis)	**11**
974	La Réunion	Rivière Sainte-Suzanne	**10**

Key to understanding: For each site, the number of PFAS detected at a concentration above the laboratory's limit of quantification is recorded. The analytical panel covers all the PFAS analysed by the Eurofins laboratory. The rankings presented above identify the substances detected at the greatest number of sites, indicating the corresponding frequency, i.e. the proportion of sites concerned.

CUMULATIVE TOXIC EQUIVALENT OF PFAS AT FRESHWATER SITES

N° dept	Departement	Site	ΣPEQ (ng/L)	Compliance
6	Alpes-Maritimes	La Bagarée (La Colle sur Loup)	4,032	Compliant
6	Alpes-Maritimes	Les Ferrayonnes (Cagnes sur Mer)	3,662	Compliant
33	Gironde	Lac de Bordeaux (Bordeaux)	104,993	Compliant
33	Gironde	Plaine des Sports (Bègles)	148,503	Compliant
35	Ille-et-Vilaine	Etang d'Apigné (Rennes)	75,987	Compliant
35	Ille-et-Vilaine	Plan d'eau des Paturiaux (Vern-sur-Seiche)	24,063	Compliant
37	Indre-et-Loire	Grand Lac des Peuplerais (Tours)	47,793	Compliant
37	Indre-et-Loire	Lac du Val Joyeux (Château-la-Vallière)	6,054	Compliant
37	Indre-et-Loire	Parc Capitaine (Bourgueil)	4,214	Compliant
37	Indre-et-Loire	Plage de Bléré (Bléré)	19,292	Compliant
40	Landes	Plage Ispe-Navarosse (Biscarosse Lac)	22,515	Compliant
56	Morbihan	Lac au duc (Ploërmel)	8,153	Compliant
64	Béarn	Lac d'Aressy (Aressy)	4,509	Compliant
64	Béarn	Lac de Baudreix (Baudreix)	0,74	Compliant
64	Côte Basque	Plage du Lac (Saint-Pée-sur-Nivelle)	1,376	Compliant
64	Béarn	Site d'entraînement de Pau canoe (PCKCU) (Pau)	1,292	Compliant
69	Rhône	Confluence Rhône Saône (loc. kayak/paddle) (Lyon)	10,721	Compliant
69	Rhône	Base nautique municipale Meyzieu Grand Large	11,548	Compliant
69	Rhône	Neyron (vague statique)	8,456	Compliant
69	Rhône	Plage de la Baraka (Miribel-plage à Neyron)	53,82	Compliant
75	Paris	Bras Marie 4eme	18,492	Compliant
76	Seine-Maritime	Base de Loisirs Mesnil-sous-Jumièges	19,979	Compliant
76	**Seine-Maritime**	**Base nautique Bédane**	**450,161**	**Non compliant**
77	Seine-et-Marne	Ancien Moulin de Chelles	15,577	Compliant
92	Hauts-de-Seine	Villeneuve la Garenne Parc de loisirs nautiques l'Ile St Denis	23,105	Compliant
94	Val-de-Marne	Confluence Seine Yerres (Villeneuve St Georges)	19,696	Compliant
94	Val-de-Marne	Joinville Plage du banc de sable	14,144	Compliant

CUMULATIVE TOXIC EQUIVALENT OF PFAS AT COASTAL SITES

N° dept	Departement	Site	ΣPEQ (ng/L)	Compliance
6	Alpes-Maritimes	Plage de Landsberg (Saint-Laurent-du-Var)	0,696	Compliant
6	Alpes-Maritimes	Plage de la Lanterne(Nice)	0,59	Compliant
6	Alpes-Maritimes	Plage Mogador (Cagnes sur Mer)	1,337	Compliant
6	Alpes-Maritimes	Trou de l'Ancre (Cannes)	1,205	Compliant
13	Bouches-du-Rhône	Calanque de Morgiou	0,63	Compliant
13	Bouches-du-Rhône	Jaï Nord (Marignane)	13,411	Compliant
13	Bouches-du-Rhône	Plage Cavaou (Fos-sur-Mer)	3,628	Compliant
13	Bouches-du-Rhône	Plage Olga (Port-Saint-Louis-du-Rhône)	2,025	Compliant
13	Bouches-du-Rhône	Plage de l'Huveaune (Marseille)	0,6	Compliant
13	Bouches-du-Rhône	Plage des Catalans (Marseille)	1,01	Compliant
17	Charente-Maritime	Plage de la Concurrence (La Rochelle)	2,29	Compliant
22	Côtes-d'Armor	Plage Les Nouelles (Plérin)	0,97	Compliant
22	Côtes-d'Armor	Plage Le Rieul amont (Lancieux)	0,58	Compliant
22	Côtes-d'Armor	Plage Le Rieul aval (Lancieux)	0,52	Compliant
22	Côtes-d'Armor	Plage du Valais (Saint-Brieuc)	1,878	Compliant
22	Côtes-d'Armor	Plage des Montiers (Erquy)	0,48	Compliant
22	Côtes-d'Armor	Plage de Renan (Louannec)	1,01	Compliant
22	Côtes-d'Armor	Plage des Sables d'Or Les Pins (Fréhel)	0,54	Compliant
22	Côtes-d'Armor	Plage du Centre (Erquy)	0,54	Compliant
29	Finistère	La Cale (Lanvéoc)	0,44	Compliant
29	Finistère	Plage de Penfoul (Landunvez)	0,54	Compliant
29	Finistère	Petite plage (Bénodet)	0,5	Compliant
29	Finistère	Plage de la Torche (Plomeur)	0,36	Compliant

CUMULATIVE TOXIC EQUIVALENT OF PFAS AT COASTAL SITES

N° dept	Departement	Site	ΣPEQ (ng/L)	Compliance
29	Finistère	Port Manec'h (Nevez)	0,46	Compliant
29	Finistère	Plage de Sainte-Anne-du-Portzic (Brest)	0,72	Compliant
33	Gironde	Plage de Lacanau	0,48	Compliant
33	Gironde	Plage du Porge	0,38	Compliant
34	Hérault	La Plagette (Mèze - Etang de Thau)	4,908	Compliant
34	Hérault	Le Boucanet (Grau du Roi)	4,215	Compliant
34	Hérault	Embouchure du Lez (Lattes)	13,916	Compliant
34	Hérault	Plage de la Rive Droite (Palavas-Les-Flots) (s	3,067	Compliant
34	Hérault	Plage Rive Gauche (Palavas-Les-Flots) (surf)	1,755	Compliant
35	Ille-et-Vilaine	Le Mole (Saint-Malo)	0,84	Compliant
35	Ille-et-Vilaine	Plage de la Hoguette (Saint-Malo)	0,72	Compliant
35	Ille-et-Vilaine	plage du Vallion (Saint Jouan des Guerets)	1,71	Compliant
40	Landes	Plage du Santocha (Capbreton)	0,62	Compliant
40	Landes	Plage de Labenne	0,54	Compliant
40	Landes	Plage Sud (Mimizan)	6,519	Compliant
40	Landes	Plage du Courant (Mimizan)	18,876	Compliant
40	Landes	Plage du Rey (Soorts-Hossegor)	1,692	Compliant
40	Landes	Plage de Tarnos	0,52	Compliant
40	Landes	Plage du Vivier (Biscarosse Plage)	0,91	Compliant
40	Landes	Plage de l'Océan (Souston)	0,64	Compliant
44	Loire-Atlantique	Grande Plage de Saint-Nazaire	5,753	Compliant
44	Loire-Atlantique	Plage des Poilus (Saint-Brévins-les-Pins)	6,387	Compliant
50	Manche	Anse de Querqueville (Cherbourg-en-Coter	0,64	Compliant

CUMULATIVE TOXIC EQUIVALENT OF PFAS AT COASTAL SITES

N° dept	Departement	Site	ΣPEQ (ng/L)	Compliance
50	Manche	Anse de la Masse (Gatteville-le-Phare)	1,17	Compliant
50	Manche	Plage Clairfefontaine (Siouville-Hague)	1,02	Compliant
50	Manche	Plage de Cosqueville (Vicq-sur-Mer)	1,5	Compliant
56	Morbihan	Plage des Barges (Billiers)	1,964	Compliant
56	Morbihan	Le Halguen (Pénestin)	0,66	Compliant
56	Morbihan	Plage de Conleau (Vannes)	0,62	Compliant
56	Morbihan	Thoulars (Larmor-Plage)	0,58	Compliant
59	Nord	Plage du centre (Calais)	1,53	Compliant
59	Nord	Poste de secours - Digue des Alliés (Dunkerque)	1,3	Compliant
62	Pas-de-Calais	Plage du centre (Boulogne-sur-Mer)	1,765	Compliant
62	Pas-de-Calais	Plage du centre (Le Portel)	1,23	Compliant
64	Côte Basque	Plage de la Barre (Anglet)	1,882	Compliant
64	Côte Basque	Plage de l'Uhabia (Bidart)	0,74	Compliant
64	Côte Basque	Plage d'Hendaye	0,64	Compliant
64	Côte Basque	Plage Sud (Saint-Jean-de-Luz)	0,92	Compliant
64	Côte Basque	Plage de la Milady (Biarritz)	0,92	Compliant
66	Pyrénées-Orientale	Plage Sud (Argelès-sur-Mer)	1,55	Compliant
66	Pyrénées-Orientale	Plage du Lido Nord (Canet-en-Roussillon)	0,75	Compliant
66	Pyrénées-Orientale	Plage du Mas Larrieu (Argelès-sur-Mer)	1,39	Compliant
66	Pyrénées-Orientale	Plage du Sardinal (Canet-en-roussillon)	0,82	Compliant
76	Seine-Maritime	Plage de Pourville (Hautot-sur-Mer)	1,248	Compliant
76	Seine-Maritime	Le Havre plage (Le Havre)	2,255	Compliant
76	Seine-Maritime	Plage Etretat	1,566	Compliant

CUMULATIVE TOXIC EQUIVALENT OF PFAS AT COASTAL SITES

N° dept	Departement	Site	ΣPEQ (ng/L)	Compliance
76	Seine-Maritime	Plage de Fécamp	0,997	Compliant
76	Seine-Maritime	Plage du Butin (Honfleur)	4,638	Compliant
80	Somme	Plage de Cayeux-sur-Mer	2,418	Compliant
83	Var	Plage Ceinturon est-L'Aygade (Hyères)	0,63	Compliant
83	Var	Plage les Pins Centre (Toulon)	0,57	Compliant
85	Vendée	Plage des viviers de la mine (Talmont st Hilaire)	1,28	Compliant
85	Vendée	Plage le Tanchet (Les Sables d'Olonne)	0,88	Compliant
971	Guadeloupe	Bas du Fort (Le Gosier)	0,48	Compliant
971	Guadeloupe	Plage de Salée Bananier (Capesterre-Belle-E	0,4	Compliant
974	La Réunion	L'étang du Gol (Etang Salé) (Saint-Louis)	14,191	Compliant
974	La Réunion	Rivière Sainte-Suzanne	4,6	Compliant

Key to understanding: For each sample, the concentration of each of the 26 PFAS studied is multiplied by its relative potency factor (RPF), a coefficient that expresses its toxicity relative to a reference molecule, PFOA, as established by the RIVM. The sum of these products provides a cumulative toxic equivalent, known as ΣPEQ and expressed in ng PFOA-equivalent per litre, which is then compared with the threshold of 280 ng/L applicable to surface waters. The proposed guideline values address growing health concerns linked to recreational activities by providing a method for assessing bathing water quality.