



SAVE WINDERMERE

#SaveWindermere

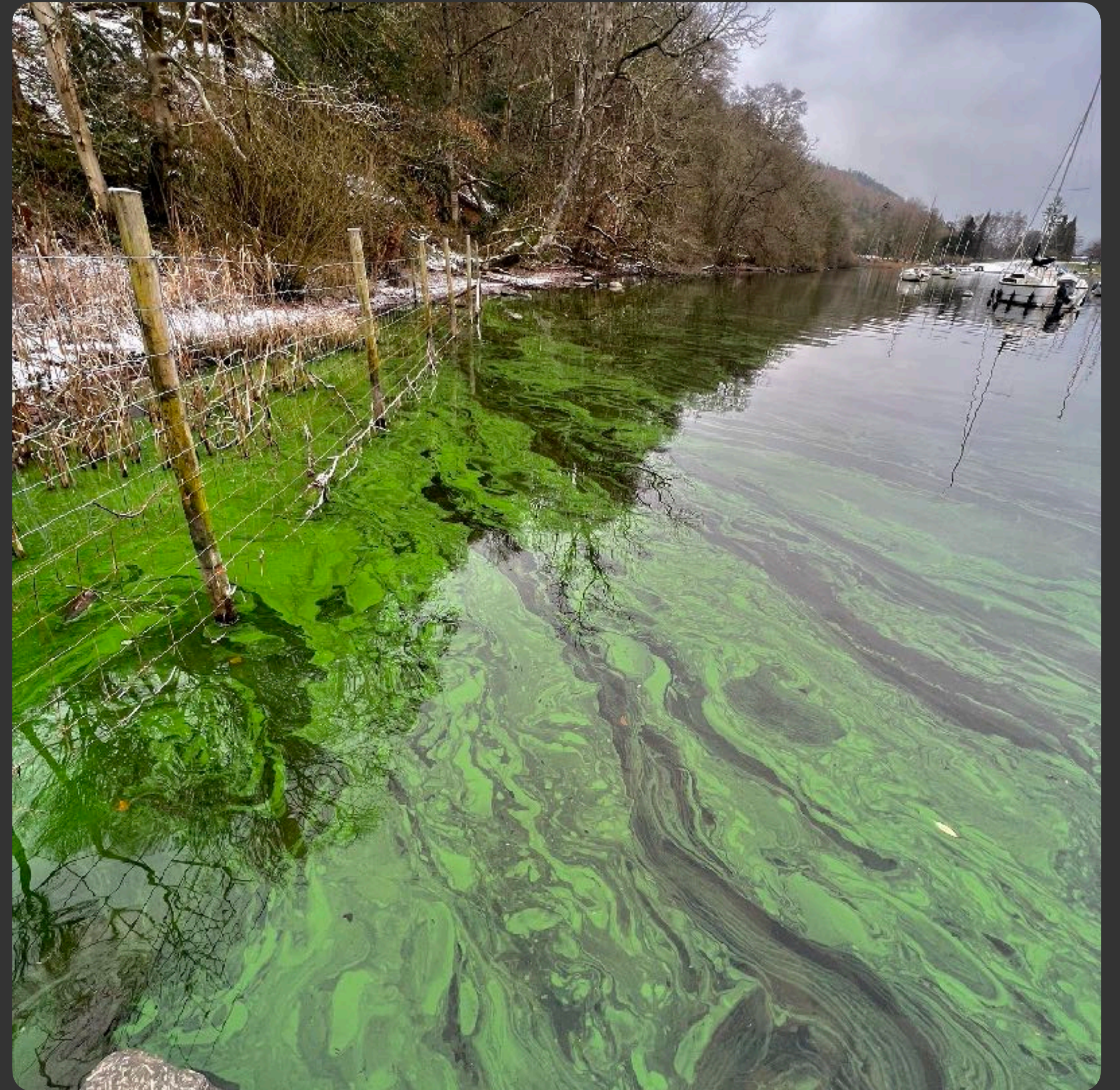
www.savewindermere.com

Save Windermere

Lake Windermere is dying

Excessively high phosphorous levels are leading to dangerous levels of nutrients in the lake.

This creates **potentially toxic algal blooms.**





Save Windermere

Algal blooms **suffocate our lake** and are
a danger to us, our pets and our wildlife.

Save Windermere

In August 2022, a sample of cyanobacteria from Windermere showed levels of *Anabaena* (and *Microcystis*) exceeded both EA and WHO guidelines for entering the water.

"On a weight for weight basis the toxins potentially produced were as toxic as cobra venom."

Dr Nick Everall



Image: Lewis Harrison, North Basin of Windermere from Helicopter, 15th August 2022

Windermere, in its natural state, is **oligotrophic** – meaning nutrient levels should be so low, algal blooms would **not occur**.

The lake is unique. Unlike our rivers and coasts, it is a **slow & enclosed system**.

It takes a single drop of water **9 months** to go from the top of Windermere in the north to the bottom in the south.

Additional nutrient input adds to the **latent layer of sediment** already at the lake bed.

This fuels the **algal blooms**.



The most significant contributor of phosphorus into Windermere is:

United Utilities Wastewater Treatment Works

"The striking feature of your case is essentially a breach of a rule of law, that **your business model is based on breaching statutory duties.**

That is an inevitable part of the way you carry out your business, you tell us. Not only is the court meant to tolerate this, but those who suffer loss as a result of unauthorised behaviour contrary, we are hypothesising, to a statutory duty are meant to grin and bear it."

Lord Reed, Supreme Court Justice, 2023

Court comment aimed at United Utilities' legal counsel

Our wildlife has been telling us **something is very wrong** with Windermere.

In 1980, **855** sea trout were caught by line on the River Leven, the main outflow of Windermere's water.

In 2021, this number plummeted down to just **12** individuals.



Image: Cunsey Beck, 22 June 2022

At the lower levelsof the food chain, invertebrates are critical to the operation of a **healthy & thriving ecosystem.**

We have documented:

61% reduction of invertebrates on Wilfin Beck, from above to below Far Sawrey Wastewater Treatment Works.

44% reduction of invertebrates on the Rothay, from above to below Ambleside Wastewater Treatment Works.



Image: Waterhead, 7 June 2022

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Image: Great Langdale Beck, 4 August 2022

Image taken above Chapel Stile, Great Langdale Beck, where there are no wastewater treatment work discharges



Image: River Rothay, 29 July 2022

Image taken roughly 100m downstream of Ambleside wastewater treatment work on the River Rothay

£750M

Windermere's total revenue from visitors (2019)

"In the medium to long term, the continued decline in water quality **may impact the economic viability of businesses** that depend on a healthy Lake environment, and damage the overall reputation of the Lake District as a visitor destination."

Cumbria Tourism



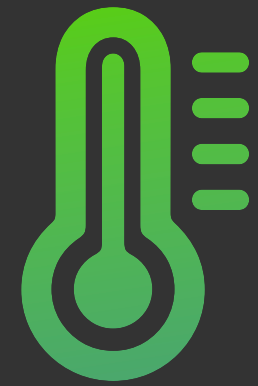
An aerial photograph of a body of water with a thick, green, algae-like bloom. Several boats are visible, some docked at wooden piers and others floating. The water's surface is covered in a dense, swirling pattern of green, indicating a significant environmental issue.

Why we should all be concerned





Excessive
Phosphorus



Climate
Change



Inadequate
Infrastructure



2446

full days of sewage discharged from storm overflows into the
Windermere catchment in 2022

301 days in 2020, 235 days in 2021



Climate change is exacerbating the issues facing Windermere.

Increased rainfall leads to increased discharges.

Warmer summers and winters lead to droughts which enable algal blooms to proliferate and engulf Windermere.



Image: West Shore of Windermere, 16 June 2022



As visitor numbers increase...

United Utilities are not addressing the urgent need to further upgrade their infrastructure and there is evidence of **illegal sewage spills**¹ in the catchment.



Image: Cunsey Beck, 22 June 2022



United Utilities market capitalisation (2022)¹

£7 billion

United Utilities return to investors (2015–2020)²

£1.6 billion

United Utilities investment in the Windermere catchment (2015–2020)³

£40 million



United Utilities are aware of their impact on the lake:

"By removing all United Utilities discharges there still will be algal blooms, but their severity will be greatly reduced to the point where they may not actually be visible."

United Utilities, 2013



What can be done?

Lake Annecy case study



Comparing the lakes

Windermere

Glacial lake

18km long

Two distinctive basins

Population: 17,500¹

Annecy

Glacial lake

14km long

Two distinctive basins

Population: 130,000¹

Cleanest lake in Europe

In the 1960s, the **impact of sewage** on Annecy became clear. The lake saw increased **algal blooms** and **declines in fish** populations.

Driven by a campaigning community, the mayor and local politicians, Annecy has been transformed.

They have achieved this by channeling their sewage to treatment plants outside of the lake's catchment.

It is now the cleanest lake in Europe.



Image: Waterhead, 12 August 2022

Windermere



Image: Lake Annecy, [SwimQuest Holidays](#)

Annecy

United Utilities has previously modelled **complete removal of one of their assets** discharging into Windermere at an estimated cost of £25 million, which in the context of their turnover and profits is a minimal investment.

If we can achieve what has been done in Annecy, we and our families can, once again, swim free from fear in our lake.



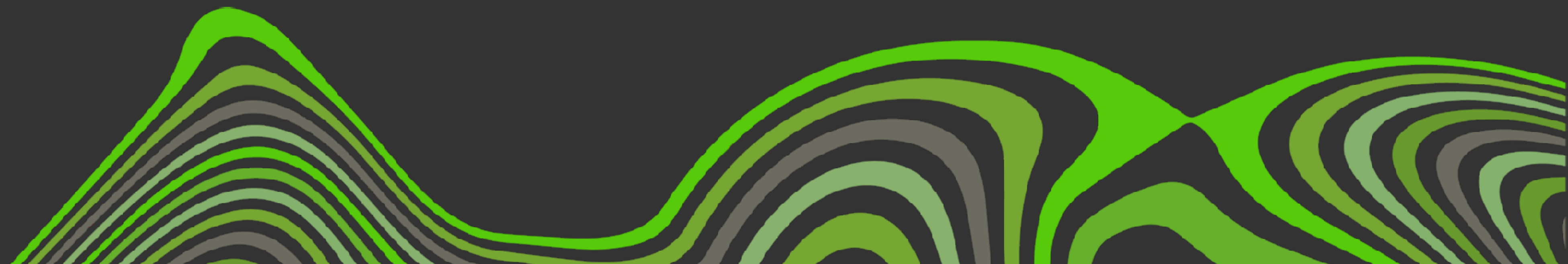
Image: [Great North Swim](#)

Save Windermere



Mission

To return Windermere to its ecologically natural state, through the **complete removal of ALL treated & untreated sewage discharges** into the Windermere catchment.



Vision

To save Windermere from ecological destruction, ensuring future generations are able to **swim free from fear** and allowing wildlife to thrive in a **healthy ecosystem**.

We will set the standard for the national treatment of our waterways, whilst showcasing the benefits of ecotourism by pivoting from an unsustainable model to one which puts the **environment first** and **protects our lake** now and forever.

What we will achieve

Ensure Windermere is restored to its ecologically natural state.

Ensure wildlife is able to survive and thrive in Windermere.

Ensure Windermere remains safe for locals and visitors to enjoy.

How we will achieve it

By compelling United Utilities to invest heavily in infrastructure to remove their input entirely.

By demanding openness and transparency and compelling United Utilities to release currently withheld data.

By collecting further evidence of ecological damage and illegality within the catchment and holding organisations to account – be that the Environment Agency, to ensure they are properly regulating, or United Utilities, to ensure they are held legally responsible for their actions.

By further mobilising the press and influence public opinion through events, films and demonstrations.

By lobbying Parliament, politicians, policy makers and United Utilities' institutional investors to effect change.

Why we care

To ensure polluters are held to account.

To ensure the sustainability of business that rely upon the lake and the tourists it brings in.

To affect systemic change at a national level.

To position Windermere as the poster-child for the national crisis resulting from the mismanagement of our water utilities.

And ultimately, to **ensure the future of Windermere – ecologically, economically and socially.**



Thank you

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