

Site Visit Report

Under the *European Union (Drinking Water) Regulations 2023*, the Environmental Protection Agency (EPA) is the supervisory authority in relation to Uisce Éireann and its role in the provision of public drinking water supplies. This audit was carried out to assess the performance of Uisce Éireann in providing clean and wholesome water to the public water supply named below.

The audit process is a sample of the performance of a water treatment plant and public water supply on a given date.

Water Supply Zone	
Name of Installation	Camphire
Organisation	Uisce Éireann
Scheme Code	3100PUB1024
County	Waterford
Site Visit Reference No.	SV32179

Report Detail	
Issue Date	10/04/2025
Prepared By	Pauline Gillard

Site Visit Detail				
Date Of Inspection	05/03/2025	Announced	No	
Time In	12:03	Time Out	12:42	
EPA Inspector(s)		Pauline Gillard Noel Cosgrove		
Additional Visitors	Pat Kenny			
Company Personnel	Uisce Eirean	Uisce Eireann: Siobhan Clifford and Patrick Kirwan		

> Summary of Key Findings

1. Disinfection consists of UV treatment and chlorination. The audit found that the disinfection system was operating satisfactorily during the inspection.

> Introduction

Camphire WTP produces approximately 27 m3/day of water serving a population of 37 (EDEN figures). The audit focused on the disinfection system at Camphire WTP.

Supply Zones Areas Inspected

This audit assessed the chlorination and UV disinfection systems at Camphire WTP.

1. Disinfection Audits 2025

	Answer
Did Uisce Éireann confirm the type of chlorine disinfectant in use?	Yes
Comment	
1. 5% Sodium Hypochlorite confirmed.	
	Answer
Are there duty and standby oblering decina number in place?	Vaa
Are there duty and standby chlorine dosing pumps in place?	Yes
	Answer
Is there automatic switchover in the event of failure of one of the chlorine dosing pumps?	Yes
	Answer
Is the chlorine dosing rate flow proportional?	Yes
Is there a continuous residual chlorine monitor, with alarm, to verify chlorine dosing is taking place at the target level?	Answer Yes
	Answer
Can data trends from the online residual monitor be viewed on site?	Yes
	Answer
Are there low and high chlorine alarm settings on each chlorine monitor?	Yes
	Answer
Is there a documented alarm response procedure for responding to chlorine alarms?	Yes
	-
	Answer

		Answer
10	Are chlorine alarms dialled out via a cascade system to allow a timely response by plant operators?	Yes
		Answer
1	Is there automatic shutdown of the supply in the event of the chlorine level dropping below the low level or rising above the high chlorine alarm setting?	Yes
		Answer
2	Are service due / monitoring instrument calibration dates for the chlorine monitors within date?	Yes
		Answer
3	Is the residual chlorine level ≥ 0.1 mg/l at the extremity of the distribution network?	Yes
		Answer
4	Is monitoring of network residual chlorine undertaken several times per week?	No
	Comment	
	Network monitoring is undertaken once a week.	
		Answer
5	Is UV treatment used for primary disinfection?	Yes
		Answer
6	Are there duty and standby UV units in operation?	Yes
		Answer
	Is there sutematic changes wer between the duty and standby LIV unite?	Voo
7	Is there automatic changeover between the duty and standby UV units?	Yes

Is there automatic shut-off of the supply in the event of UV units failing or operating outside of their validated range?	Yes
	Answer
	7
Is there continuous monitoring of the UV units to verify operation within validation range at all times?	Yes
	Answer
Can data trends from the online UV monitor(s) be viewed on-site?	Yes
	Answer
Is there a documented alarm response procedure for responding to UV alarms?	Yes
	Answer
Have staff been trained on the UV alarm response procedure?	Yes
	Answer
Are UV alarms dialled out via a cascade system to allow a timely response by plant operators?	Yes
	Answer
Are service due / monitoring instrument calibration dates for the UV units within date?	No
Comment	
1. Calibration dates for the UV units were out of date, with calibration stickers show 2024.	ing due date as Ma
	Answer
Is the UV disinfection system validated to an appropriate international standard?	Yes
	Answer

1.26	Did UÉ confirm that the UV disinfection system is operating within the validated	Yes
	range?	

Recommendations

Subject	Audit Recommendations	Due Date	10/05/2025	
Action Text	Uisce Éireann is responsible for ensuring a clean and wholesome supply of drinking water and should implement the following recommendations without delay. 1. Ensure that the UV units are regularly serviced and calibrated in accordance with the manufacturer's instructions. 2. Ensure monitoring of residual chlorine is undertaken several times a week at different points of the network to include the network extremities.			
Actions required by Uisce Éireann				
	During the audit, Uisce Éireann representatives were advised of the audit findings and that action must be taken by Uisce Éireann to address the issues raised. Uisce Éireann should submit a report to the EPA on or before 10/05/25 detailing the actions taken and planned, with timescales, to close out the above recommendations.			
	The EPA advises that the findings and recommendations from this audit report should, where relevant, be addressed at other public water supplies.			