

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	Bree		
Organisation	Uisce Éireann		
Scheme Code	3300PUB1420		
County	Wexford		
Site Visit Reference No.	SV32700		

Report Detail		
Issue Date	01/08/2025	
Prepared By	Sean O'Leary	

Site Visit Detail			
Date Of Inspection	01/07/2025	Announced	Yes
Time In	10:30	Time Out	11:30
EPA Inspector(s)	Sean O'Leary	1	<u>'</u>
Additional Visitors			
Company Personnel	Uisce Éireann: Denis McGrath Wexford County Council (working in partnership with Uisce Éireann): Barry Hammel & Krystian Tauroginski		

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Summary of Key Findings

- 1. The audit found that the turbidity monitor in the Bree Public Water Supply was out of operation for approximately 14 months with no timeframe for repair. A continuous turbidity monitor with alarms and inhibits is required to prevent the entry inadequately treated water into the supply.
- 2. On the day of the audit the final water pH correction dosing system was out of operation for some time. Uisce Éireann could not explain why the system was not in operation. Trends examined at the audit showed that the pH of the final water was persistently below the pH parametric value of 6.5 on an ongoing basis. The supply is listed on the Uisce Éireann National pH File as a supply with ongoing pH issues.



Introduction

The Bree Public Water Supply (PWS) supplies an average of 182 m3/day of water, serving a population of 420. The source for the supply is one on-site borehole.

Treatment consists of primary chlorination disinfection. The audit was undertaken to assess Uisce Éireann's performance in producing clean and wholesome water with a focus on the alarms and inhibits in place at the water treatment plant (WTP).

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Supply Zones Areas Inspected

The on-site borehole, pH treatment system, chlorination dosing system and pumps at the water treatment plant were inspected.

1. Alarms, Inhibits & Oversight Audits 2025

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ponse and incident escalation process posted a	at th

		Answer	
Is suitable continuous monitoring in p	lace to verify treatment performance?	No	
Comment			
1. The continuous turbidity monitor on the raw water at the WTP is out of operation for approximately 14 months with no plan for repair.			

	Answer
Is there a documented procedure for responding to specific alarms?	No
Comment	



2. Site Specific Issues

		Answer
2.1	Are treated water pH results compliant with parametric values?	No

Comment

- 1. The Bree Public Water Supply (PWS) is on Uisce Éireann's National pH file due to persistent low pH (< 6.5). Trends examined at the audit showed that the pH of the final water was persistently below the pH parametric value of 6.5
- 2. Uisce Éireann confirmed that the on-site pH correction has been out of operation for approximately 4 years. Uisce Éireann could not explain why the system was not in operation.

Recommendations

Subject	Audi Recommendations		Due Date	01/09/2025	
Action Text	Uisce Éireann is responsible for ensuring a clean and wholesome supply of dri and should implement the following recommendations without delay.				
	 (i) Install a turbidity monitor with appropriate alarm settings and inhibits. (ii) Commence a a minimum daily turbidity checks to ensure turbidity levels remain below the 1 NTU parametric limit. Confirm that the pH correction dosing system has been reinstated. Ensure that: (i) a formal site specific alarm response procedure is in place at the treatmed plant and (ii) provide training to relevant staff (including relief and temporary staff) on the requirements of the alarm response procedure. Display a site specific incident response and incident escalation procedure at the water treatment plant with site specific contact details and trigger levels. During the audit, Uisce Éireann representatives were advised of the audit findings and that actimust be taken by Uisce Éireann to address the issues raised. Uisce Éireann should submit a report to the EPA on or before 01/09/2025 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. 				