

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	Fingal Zone 3
Organisation	Uisce Éireann
Scheme Code	0900PUB1003
County	Dublin
Site Visit Reference No.	SV31986

Report Detail	
Issue Date	17/06/2025
Prepared By	Michelle Roche

Site Visit Detail			
Date Of Inspection	20/05/2025	Announced	Yes
Time In	12:00	Time Out	12:30
EPA Inspector(s)	Michelle Roche		
Additional Visitors			
Company Personnel	Uisce Éireann: Pádraig Keenan, Tselo Tlou, Neil Hardy, Linda Doran, Conor Flanagan and Declan Tynan.		

> Summary of Key Findings

1. Dual online chlorine residual analysers at the inlet to Jordanstown Reservoir provide chlorine contact time validation for the Bog of the Ring Water Treatment Plant. The analysers were not operational at the time of the audit. Water treatment equipment specialists had been to site and were working to fix the issue with the chlorine residual analysers.
2. The audit found that booster chlorination at Jordanstown Reservoir was operating satisfactorily on the day of the audit with good management systems in place.

> Introduction

Jordanstown Reservoir receives treated water from Leixlip Water Treatment Plant (90%) and Bog of the Ring Water Treatment Plant (10%), County Dublin. Treated water receives a booster chlorination dose on the inlet of Jordanstown Reservoir and an additional booster chlorination dose can be provided on the outlet of the reservoir, if required. The reservoir serves Fingal Zone 3 public drinking water supply.

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 on the booster chlorination and the procedures in place to ensure appropriate oversight of the chlorination process.

> Supply Zones Areas Inspected

The audit consisted of interviews with Uisce Éireann staff and an inspection of the dosing and validation infrastructure.



1. Alarms, Inhibits & Oversight Audits 2025

1.1

Were online monitors operational?

Answer

No

Comment

1. All online chlorine residual monitors to verify and control the booster chlorination dose at Jordanstown Reservoir were operational.

2. Dual online chlorine residual analysers at the inlet to Jordanstown Reservoir provide chlorine contact time verification for Bog of the Ring Water Treatment Plant which is located approximately 4km away. The analysers were not operational at the time of the audit.

1.2

Was there a plan in place for repair of any monitor not in operation during the audit?

Answer

Yes

Comment

Water treatment equipment specialists (Coffey Engineering) had been to site at Jordanstown Reservoir and were working to fix the issue.

Recommendations

Subject	Jordanstown Reservoir Audit Recommendations	Due Date	20/07/2025
Action Text	<p>Uisce Éireann is responsible for ensuring a clean and wholesome supply of drinking water and should implement the following recommendations without delay.</p> <ol style="list-style-type: none">1. Ensure that the clean and wholesome supply of drinking water is maintained and Jordanstown Reservoir continues to be suitably managed and operated at all times.2. Rectify the issue with the chlorine residual analysers at the inlet to Jordanstown Reservoir that provide chlorine contact time verification for the Bog of the Ring Water Treatment Plant. <p>Actions required by Uisce Éireann</p> <p>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.</p> <p>Uisce Éireann should submit a report to the EPA on or before 20/07/2025 detailing the actions taken and planned, with timescales, to close out the above recommendation.</p> <p>The EPA advises that the findings and recommendations from this audit report should, where relevant, be addressed at other public water supplies.</p>		