

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	Baltimore Lakecross
Organisation	Uisce Éireann
Scheme Code	0500PUB4601
County	Cork
Site Visit Reference No.	SV29547

Report Detail	
Issue Date	03/05/2024
Prepared By	Paul Buckley

Site Visit Detail			
Date Of Inspection	18/04/2024	Announced	Yes
Time In	10:55	Time Out	12:25
EPA Inspector(s)	Paul Buckley		
Additional Visitors			
Company Personnel	Uisce Éireann: Claire Hurley, Damian McDonald, Cormac Bergin, Donal O'Laoghaire. Cork County Council (working in partnership with Uisce Éireann): Michael Russell, Barry O'Meara, Pauline McAree, Gerard Connolly, Séamus Sutton.		

> Summary of Key Findings

1. The audit found that Baltimore/Lakecross Water Treatment Plant was operating satisfactorily on the day of the audit.
2. The protozoal log treatment requirement for the water treatment plant has not been determined pending the completion of a sanitary survey.

> Introduction

The Baltimore/Lakecross Public Water Supply (PWS) supplies an average of 1,400 m³/day of water, serving a population of 2,810 people. These figures are not reflective of the volume supplied and population served on the EPA EDEN system.

The source of the supply is Lough Abisdealy, located adjacent to the water treatment plant (WTP). Treatment consists of coagulation, flocculation, clarification, rapid gravity filtration, chlorination, and fluoridation. The supply is supplemented by the Skibbereen/Ballyhilty Public Water Supply as required.

The audit was undertaken to assess Uisce Éireann's performance in producing clean and wholesome water with a focus on the protozoal barriers in place at the water treatment plant.

> Supply Zones Areas Inspected

The raw water intake, coagulant injection point, clarifier tanks, rapid gravity filters, the chlorine dosing system and the chemical storage areas at the water treatment plant were inspected.



1. Protozoal Barriers Audits 2024

	Answer	
1.1	Has UÉ identified the protozoal compliance log treatment requirement for the water treatment plant?	No
Comment		
The protozoal compliance log treatment requirement has not been identified for the water treatment plant. The sanitary survey has not been completed.		

	Answer	
1.2	Did UÉ confirm whether <i>Cryptosporidium</i> monitoring under the Rationale for Determining the Frequency of <i>Cryptosporidium</i> in Public Water Supplies is being carried out?	Yes
Comment		
Uisce Éireann confirmed that <i>Cryptosporidium</i> monitoring was undertaken twice per annum until last year, and that a programme of monthly turbidity and <i>E. coli</i> surrogate monitoring is now underway for the raw water. This programme is to be reviewed following the completion of the sanitary survey.		



2. Site Specific Issues

	Answer
2.1 Are instrument calibrations within date?	No
Comment	
During the audit it was noted that the streaming current monitor did not have a calibration sticker displayed.	

Recommendations

Subject	Baltimore/Lakecross Audit Recommendations 18/04/2024	Due Date	03/06/2024
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. i) Confirm the protozoal log treatment requirement for the water treatment plant, ii) provide details of how any protozoal log treatment deficit, if identified, will be addressed, and iii) continue to monitor the supply in accordance with Uisce Éireann's Rationale for Determining the Frequency of <i>Cryptosporidium</i> Monitoring in Public Water Supplies.2. Ensure all plant monitors are calibrated in accordance with manufacturer's instructions and are clearly labelled to show the date of calibration and the next "calibration due by" date.3. Update EDEN with the correct population served and volume supplied figures for the supply. <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 03/06/2024 detailing the actions taken and planned, with timescales, to close out the above recommendations.</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>		