

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	Glenosheen PWS
Organisation	Uisce Éireann
Scheme Code	1900PUB1029
County	Limerick
Site Visit Reference No.	SV30721

Report Detail

Issue Date	23/12/2024
Prepared By	Orla Harrington

Site Visit Detail

Date Of Inspection	27/11/2024	Announced	Yes
Time In	12:00	Time Out	12:40
EPA Inspector(s)	Orla Harrington		
Additional Visitors			
Company Personnel	Uisce Éireann: Susan Cook, Sharon O' Dwyer, Ted Ahern. Limerick City and County Council (working in partnership with Uisce Éireann): Neal Boyle.		

> Summary of Key Findings

1. The audit found that the Glenosheen public water supply was operating satisfactorily on the day of the audit.
2. The chlorine monitor post dose (CL001) is not trending at the water treatment plant or remotely so data from the monitor was not accessible to the operator.
3. Uisce Éireann were unable to confirm the protozoal log treatment requirement for the supply.

> Introduction

The Glenosheen public water supply serves 86 m³/day to a population of approximately 145 from a single borehole. Treatment consists of disinfection by chlorination.

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 treatment plant and the procedures in place to ensure appropriate oversight of treatment processes.

> Supply Zones Areas Inspected

The treatment processes were inspected during the audit and monitoring and control systems including alarm set-points were reviewed.



1. Management and Control

1.1

Has the protozoal compliance log treatment requirement been identified for the water treatment plant?

Answer

No

Comment

1. Uisce Éireann said that a source and sanitary survey must be completed prior to confirming the protozoal log treatment requirement for the plant.



2. Alarms, Inhibits & Oversight Audits 2024

2.1

Has UÉ carried out an alarm and inhibit review at the water treatment plant?

Answer

No

Comment

1. Uisce Éireann have not undertaken an alarm and inhibit review at the water treatment plant.

2.2

Are plant performance trends accessible by operational staff at the water treatment plant?

Answer

No

Comment

1. The chlorine monitor post dose was not trending on the HMI or the countywide SCADA system. Uisce Éireann were unable to provide an explanation for this.

2. The chlorine monitor (CL002) installed and alarmed after the appropriate contact time has been achieved was trending on the HMI on the day of the audit, indicating satisfactory trend results.

2.3

Are plant performance trends accessible remotely?

Answer

No

Comment

1. As outlined in Section 2.2 above, the chlorine monitor post dose was not trending on the HMI or the countywide SCADA system.

2.4

Did plant performance trends demonstrate that data was being captured and recorded at all times?

Answer

No

Comment

1. The chlorine dose trend data is not available at the Glenosheen treatment plant.

Answer

2.5	Is there appropriate oversight of plant performance trends?	No
Comment		
1. The chlorine dose trend data is not available at the Glenosheen treatment plant. However staff have the ability to remotely view real time data via remote log in to confirm status of treatment plant operations.		

		Answer
2.6	Is there a documented alarm response procedure?	No

Recommendations

Subject	Glenosheen PWS - Audit Report	Due Date	23/01/2025
Action Text	<p>Uisce Éireann is responsible for ensuring a clean and wholesome supply of drinking water and should implement the following recommendation(s) without delay.</p> <ol style="list-style-type: none"> 1. Ensure that all monitors at the Glenosheen water treatment plant are trending onsite and on the countywide SCADA system. 2. Confirm the protozoal log treatment requirement for the raw water source and provide details of how any protozoal log deficit, if identified, will be addressed. 3. Undertake an Alarm and Inhibit Review of the plant and implement the findings to protect treatment processes and treated water quality. 4. Ensure that (i) a formal site specific alarm response procedure is in place at the treatment plant. The procedure should clearly document the corrective actions and set out delegation of responsibilities for operational and relief staff; (ii) provide training to relevant staff on the requirements of the alarm response procedure. <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 23/01/2025 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>		