

# 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

<b>Name of Installation</b>	Ballyjamesduff RWSS
<b>Organisation</b>	Uisce Éireann
<b>Scheme Code</b>	0200PUB0106
<b>County</b>	Cavan
<b>Site Visit Reference No.</b>	SV30673

## Report Detail

<b>Issue Date</b>	10/01/2025
<b>Prepared By</b>	Elaine Greenan

## Site Visit Detail

<b>Date Of Inspection</b>	03/12/2024	<b>Announced</b>	No
<b>Time In</b>	09:50	<b>Time Out</b>	10:30
<b>EPA Inspector(s)</b>	Elaine Greenan		
<b>Additional Visitors</b>			
<b>Company Personnel</b>	Uisce Éireann: Regina Burke, John McDonald. Cavan County Council (working in partnership with Uisce Éireann): Gary Boyd, Leon Conaty.		



## Summary of Key Findings

1. The audit found that the Ballyjamesduff Regional Water Supply Scheme (RWSS) water treatment plant (WTP) was operating and performing well in providing clean and wholesome water to the public supply.



## Introduction

The Ballyjamesduff Regional Water Supply Scheme (RWSS) produces approximately 2,740 m<sup>3</sup>/d of water serving a population of 4,660 (EDEN 2024).



## Supply Zones Areas Inspected

The audit focused on the chlorine disinfection system at Ballyjamesduff RWSS.



## 1. Disinfection Audits 2024

		<b>Answer</b>
1.1	Is chlorination used for primary disinfection?	Yes
		<b>Answer</b>
1.2	Did Uisce Éireann confirm the type of chlorine disinfectant in use?	Yes
	<b>Comment</b>	
	10% Sodium Hypochlorite	
		<b>Answer</b>
1.3	Are there duty and standby chlorine dosing pumps in place?	Yes
		<b>Answer</b>
1.4	Is there automatic switchover in the event of failure of one of the chlorine dosing pumps?	Yes
		<b>Answer</b>
1.5	Is the chlorine dosing rate flow proportional?	Yes
		<b>Answer</b>
1.6	Is there a continuous residual chlorine monitor, with alarm, to verify chlorine dosing is taking place at the target level?	Yes
		<b>Answer</b>
1.7	Is there a continuous residual chlorine monitor, with alarm, at a suitable sample location after contact time has been completed?	Yes
		<b>Answer</b>
1.8	Can data trends from the online residual monitor be viewed on site?	Yes
		<b>Answer</b>
1.9	Are there low and high chlorine alarm settings on each chlorine monitor?	Yes

		<b>Answer</b>
1.10	Is there a documented alarm response procedure for responding to chlorine alarms?	Yes
		<b>Answer</b>
1.11	Have staff been trained on the chlorine alarm response procedure?	Yes
		<b>Answer</b>
1.12	Are chlorine alarms dialled out via a cascade system to allow a timely response by plant operators?	Yes
	<b>Comment</b>	
	Plant operator receives text message, cascade system in place.	
		<b>Answer</b>
1.13	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
		<b>Answer</b>
1.14	Are service due / monitoring instrument calibration dates for the chlorine monitors within date?	Yes
	<b>Comment</b>	
	At time of audit it did not state on the chlorine meter and service record sheet when the chlorine monitor was last calibrated. Dated sticker for next calibration service (02/03/2025) was posted on both chlorine monitors.	
		<b>Answer</b>
1.15	Is the site specific target contact time being achieved?	Yes
		<b>Answer</b>
1.16	Is the minimum effective contact time of 15 mg. min/l being achieved?	Yes
		<b>Answer</b>

1.17	Is the residual chlorine level $\geq$ 0.1 mg/l at the extremity of the distribution network?	Yes
		<b>Answer</b>
1.18	Is monitoring of network residual chlorine undertaken several times per week?	Yes

## Recommendations

Subject	Recommendations	Due Date	10/02/2025
Action Text	<p><b>Uisce Éireann is responsible for ensuring a clean and wholesome supply of drinking water and should implement the following recommendation(s) without delay.</b></p> <ol style="list-style-type: none"><li>1. Ensure that calibration stickers on the chlorine monitors include both the last calibrated date and the next calibration due date.</li></ol> <p><b>Actions required by Uisce Éireann</b></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 10/02/2025 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>		