

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	Kilmore-Kilbeg
Organisation	Uisce Éireann
Scheme Code	3100PUB1066
County	Waterford
Site Visit Reference No.	SV32156

Report Detail	
Issue Date	10/04/2025
Prepared By	Pauline Gillard

Site Visit Detail			
Date Of Inspection	05/03/2025	Announced	No
Time In	13:13	Time Out	13:45
EPA Inspector(s)	Pauline Gillard Noel Cosgrove		
Additional Visitors	Pat Kenny		
Company Personnel	Uisce Eireann: Siobhan Clifford and Patrick Kirwan.		



Summary of Key Findings

1. Disinfection consists of chlorination. The audit found that the disinfection system was operating satisfactorily during the inspection.
2. Uisce Éireann advised that this supply is to be prioritised for a rationalisation.



Introduction

Kilmore-Kilbeg WTP produces approximately 4 m³/day of water serving a population of 20 (EDEN figures). The audit focused on the disinfection system at Kilmore-Kilbeg WTP.



Supply Zones Areas Inspected

This audit assessed the chlorination disinfection systems at Kilmore- Kilbeg WTP.



1. Disinfection Audits 2025

		Answer
1.1	Is chlorination used for primary disinfection?	Yes
		Answer
1.2	Did Uisce Éireann confirm the type of chlorine disinfectant in use?	Yes
	Comment	
	1. 5 % Sodium Hypochlorite confirmed.	
		Answer
1.3	Are there duty and standby chlorine dosing pumps in place?	Yes
		Answer
1.4	Is there automatic switchover in the event of failure of one of the chlorine dosing pumps?	Yes
		Answer
1.5	Is the chlorine dosing rate flow proportional?	Yes
		Answer
1.6	Is there a continuous residual chlorine monitor, with alarm, to verify chlorine dosing is taking place at the target level?	Yes
		Answer
1.7	Is there a continuous residual chlorine monitor, with alarm, at a suitable sample location after contact time has been completed?	Yes
		Answer
1.8	Can data trends from the online residual monitor be viewed on site?	No
	Comment	

1. Uisce Éireann stated data trends can only be reviewed remotely.

	Answer
1.9	Are there low and high chlorine alarm settings on each chlorine monitor? Yes
	Answer
1.10	Is there a documented alarm response procedure for responding to chlorine alarms? Yes
	Answer
1.11	Have staff been trained on the chlorine alarm response procedure? Yes
	Answer
1.12	Are chlorine alarms dialled out via a cascade system to allow a timely response by plant operators? Yes
	Answer
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
	Answer
1.14	Are service due / monitoring instrument calibration dates for the chlorine monitors within date? Yes
	Answer
1.15	Is the site specific target contact time being achieved? Yes
	Answer
1.16	Is the minimum effective contact time of 15 mg. min/l being achieved? Yes
	Answer
1.17	Is the residual chlorine level ≥ 0.1 mg/l at the extremity of the distribution network? Yes

1.18

		Answer
Is monitoring of network residual chlorine undertaken several times per week?		No
Comment		
1. Network monitoring is undertaken once a week.		

Recommendations

Subject	Audit Recommendations	Due Date	10/05/2025
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 monitoring of residual chlorine is undertaken several times a week at different points of the network to include the network extremities.2. Ensure that residual chlorine trends are available and accessible on site to plant operators via SCADA / HMI. <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 10/05/25 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>		