

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	Parc an Aonaigh Kilmacthomas	
Organisation	Uisce Éireann	
Scheme Code	3100PUB1147	
County	Waterford	
Site Visit Reference No.	SV32207	

Report Detail	
Issue Date	02/05/2025
Prepared By	Pauline Gillard

Site Visit Detail				
Date Of Inspection	03/04/2025	Announced	No	
Time In	11:38	Time Out	11:53	
EPA Inspector(s)		Pauline Gillard Noel Cosgrove		
Additional Visitors				
Company Personnel	Uisce Éireann: Melissa Devane, David Hourigan			
Waterford County Council (working in partnership with Uisce Éireann): James Power			n partnership with Uisce Éireann):	

Summary of Key Findings

- 1. There is no 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.
- 2. No data trends from the online residual monitor were available on site.



Introduction

The Parc an Aonaigh Kilmacthomas WTP produces approximately 12 m3/d of water serving a population 41 (EDEN figures). The audit focused on the disinfection system at Parc an Aonaigh Kilmacthomas WTP.



Supply Zones Areas Inspected

This audit assessed the chlorination disinfection system at Parc an Aonaigh Kilmacthomas WTP.

1. Disinfection Audits 2025

	Answer
s chlorination used for primary disinfection?	Yes
	Answer
Did Uisce Éireann confirm the type of chlorine disinfectant in use?	Yes
Comment	
1. 10% Sodium Hypochlorite confirmed.	
	Answer
Are there duty and standby chlorine dosing pumps in place?	Yes
	Answer
s there automatic switchover in the event of failure of one of the chlorine dosing pumps?	Yes
	Answer
s the chlorine dosing rate flow proportional?	Yes
	Answer
s there a continuous residual chlorine monitor, with alarm, to verify chlorine dosing is taking place at the target level?	Yes
	_
	Answer
s there a continuous residual chlorine monitor, with alarm, at a suitable sample ocation after contact time has been completed?	Yes
	Answer
Can data trends from the online residual monitor be viewed on site?	No
	110

	Answer
Are there low and high chlorine alarm settings on each chlorine monitor?	Yes
	Answer
Is there a documented alarm response procedure for responding to chlorine alarms?	Yes
	Answer
Have staff been trained on the chlorine alarm response procedure?	Yes
	Answer
Are chlorine alarms dialled out via a cascade system to allow a timely response by plant operators?	Yes
	Answer
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?	No
Comment	
There are no high/low plant automatic shutdown setpoints in place to prevent ina	dequately treate
1. There are no high/low plant automatic shutdown setpoints in place to prevent ina	dequately treate
There are no high/low plant automatic shutdown setpoints in place to prevent inawater entering supply in the event of a chlorination system failure. Are service due / monitoring instrument calibration dates for the chlorine monitors	
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1. There are no high/low plant automatic shutdown setpoints in place to prevent inawater entering supply in the event of a chlorination system failure. Are service due / monitoring instrument calibration dates for the chlorine monitors within date? Is the site specific target contact time being achieved?	Answer Yes Answer

		Answer
1.17	Is the residual chlorine level ≥ 0.1 mg/l at the extremity of the distribution network?	Yes

		Answer	
1.18	Is monitoring of network residual chlorine undertaken several times per week?	Yes	

Recommendations

Subject	Audit Recommendations	Due Date	02/06/2025	
Action Text	Uisce Éireann is responsible for ensuring a clean and wholesome supply of drinking water and should implement the following recommendations without delay.			
	 Install automatic shutdown of the plant link settings. Ensure that residual chlorine trends are av via Scada/MHMI Actions required by Uisce Éireann 			
	Actions required by disce Eireann			
	During the audit, Uisce Éireann representatives w must be taken by Uisce Éireann to address the iss		audit findings and that action	
	Uisce Éireann should submit a report to the EPA on or before 02/06/2025 detailing the actions taken and planned, with timescales, to close out the above recommendations.			
	The EPA advises that the findings and recommendations from this audit report should, where relevant, be addressed at other public water supplies.			