

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	Tullow
Organisation	Uisce Éireann
Scheme Code	0100PUB1131
County	Carlow
Site Visit Reference No.	SV31950

Report Detail	
Issue Date	07/05/2025
Prepared By	Sean O'Leary

Site Visit Detail				
Date Of Inspection	10/04/2025	Announced	No	
Time In	10:30	Time Out	12:00	
EPA Inspector(s)	Sean O'Leary Emma Sinnot Becci Cantrel	t	·	
Additional Visitors	Decci Caritiei	I		
Company Personnel	Uisce Éireann: James Byrne and Denis McGrath.			
	Carlow County Council (working in partnership with Uisce Éireann): Darren Leonard.			

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Summary of Key Findings

- 1. The audit found that Tullow Water Treatment Plant was operating and performing well in providing clean and wholesome water to the public supply.
- 2. The media depth of each filter could not be confirmed at the audit and there is no automatic filter backwash in place based on turbidity, headloss and time.



Introduction

The Tullow Public Water Supply (PWS) supplies an average of 985 m3/day of water, serving a population of 3,059 (EDEN).

The source for the supply is the River Slaney. Treatment consists of coagulation, flocculation, clarification, rapid gravity filtration, pH correction, chlorination, fluoridation and sludge treatment.

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



Supply Zones Areas Inspected

The raw water intake, alum dosing system, pH adjustment system, clarification tanks, rapid gravity filters, and chlorination dosing system were inspected at the water treatment plant (WTP).



1. Protozoal Barriers Audits 2025

1.1	Are the filters designed and managed in accordance with EPA guidance?	No

Comment

1. There are 2 rapid gravity filters in place at the Tullow water treatment plant. There are no media gauges installed in the filters to assist with monitoring of the depth of filter media at present. Uisce Éireann could not confirm the current media depth of the two rapid gravity filters.

Answer

- 2. Uisce Éireann confirmed filter media replacement occurred last 15 years ago.
- 3. Uisce Éireann confirmed that automatic backwashing is not activated on the filters due to a small clearwater tank. Backwashing is not triggered by the turbidity alarm setpoints or triggered by headloss. Each filter is manually backwashed every two days.
- 4. Uisce Éireann confirmed a high turbidity alarm of 0.2 NTU was in operation for each filter, turbidity levels were controlled through manual backwashes. The filter turbidity trends inspected during the audit were satisfactory.

Recommendations

t of the depth and co	ons without delay ondition of the medition is a minimum of 1m	ia in each rapid gravity
media in each filter i	is a minimum of 1m	n, c) install a media
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resentatives were ac address the issues r		findings and that action
		an ant alassidat subsana
		port to the EPA on or before 07/06/2025 is, to close out the above recommendation and recommendations from this audit re