

Site Visit Report

Under the European Union (Drinking Water) Regulations 2014 as amended, the Environmental Protection Agency is the supervisory authority in relation to Irish Water and its role in the provision of public water supplies. This Audit was carried out to assess the performance of Irish Water in providing clean and wholesome water to the visited public supply.

The audit process is a sample on a given date of the facility's operation. Where a finding against a particular issue has been reported this should not be construed to mean that this issue is fully addressed.

Water Supply Zone			
Name of Installation	Donegal(River Eske)		
Organisation	Uisce Éireann		
Scheme Code	0600PUB1098		
County	Donegal		
Site Visit Reference No.	SV26208		

Report Detail	
Issue Date	10/01/2023
Prepared By	Ruth Barrington

Site Visit Detail					
Date Of Inspection	07/12/2022	Announced	Yes		
Time In	15:05	Time Out	15:55		
EPA Inspector(s) Additional Visitors	Patricia Mallen				
Additional visitors					
Company Personnel	Irish Water: Fionnuala Bonner Donegal County Council (operating under service level agreement to Irish Water): Paul Lyons, Denis McMullin, Eammon Reilly, Eddie McGrane.				

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Summary of Key Findings

- 1. Disinfection consists of chlorination. The audit found that the disinfection system was operating satisfactorily during the inspection.
- 2. The frequency of chlorine monitoring in the network should be increased.



Introduction

The Donegal (River Eske) Public Water Scheme (PWS) produces approximately 2,894 m3/d of water serving a population of 5,993 (EDEN figures). The audit focused on the disinfection system at the Donegal Water Treatment Plant (WTP). The site has been assessed under Irish Water's Disinfection Programme and reported to the EPA as having been fully commissioned and available on telemetry on 01/02/2019.



Supply Zones Areas Inspected

This audit assessed the chlorination disinfection system at Donegal (River Eske) WTP.

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1. Disinfection Programme Audits 2022

	Answer
Is chlorination used for primary disinfection?	Yes
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	Answer
Did Irish Water confirm the type of chlorine disinfectant in use?	Yes
	Answer
Are there duty and standby chlorine dosing pumps in place?	Yes
	Answer
Is there automatic switchover in the event of failure of one of the chlorine dosing pumps?	Yes
	Answer
Is the chlorine dosing rate flow proportional?	Yes
	Answer
Is the chlorine dosing rate fixed?	Not Applicable
	Answer
Can IW / LA confirm the target residual chlorine level for the final water leaving the plant?	Yes
	Answer
Is there a continuous residual chlorine monitor on the final water?	Yes
	A
	Answer
Can data trends from the online residual monitor be viewed on site?	Yes
	Answer
	Allowel
Are there low and high chlorine alarm settings?	Yes

	Answer
ls there an alarm response procedure available on site for responding to chlorin alarms?	e Yes
	Answer
Is there automatic shutdown of the supply in the event of the chlorine level dropping below the low chlorine alarm setting or rising above the high chlorine alarm setting?	Yes
	Answer
Are service due / monitoring instrument calibration dates for the chlorine monito within date?	rs Yes
	Answer
Is the site specific contact time being achieved?	Yes
	Answer
Is the minimum effective contact time of 15 mg. min/l being achieved?	Answer
Is the minimum effective contact time of 15 mg. min/l being achieved?	
Is the minimum effective contact time of 15 mg. min/l being achieved?	
Is the minimum effective contact time of 15 mg. min/l being achieved? Is the residual chlorine level ≥ 0.1 mg/l at the extremity of the distribution network?	Yes
Is the residual chlorine level ≥ 0.1 mg/l at the extremity of the distribution	Yes
Is the residual chlorine level ≥ 0.1 mg/l at the extremity of the distribution	Yes

Recommendations

Subject	Donegal (River Eske) PWS	Due Date	10/02/2023			
Action Text						
	Recommendation					
	Irish Water is responsible for ensuring a safe and secure supply of drinking water. To address these issues, Irish Water should implement the following recommendation without delay.					
	1. Irish Water should ensure monitoring of residual chlorine is undertaken several times a week at different points of the network to include the network extremities.					
	Follow-Up Actions required by Irish Water					
	During the audit, Irish Water representatives were advised of the audit findings and that action must be taken as a priority by Irish Water to address the issues raised.					
	This report has been reviewed and approved by Ruth Barrington, Drinking Water Team Leader.					
	Irish Water should submit a report to the Agency on or before 10/02/2023 detailing how it has dealt with the issues of concern identified during this audit.					
	The report should include details on the action taken and planned to address the various recommendations, including time frame for commencement and completion of any planned work.					
	The EPA also advises that the findings and recommendations from this audit report should, where relevant, be addressed at all other treatment plants operated and managed by Irish Water.					