

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	Dundrum Regional
Organisation	Irish Water
Scheme Code	2900PUB0113
County	Tipperary
Site Visit Reference No.	SV25546

Report Detail	
Issue Date	10/06/2022
Prepared By	Criona Doyle

Site Visit Detail			
Date Of Inspection	16/05/2022	Announced	Yes
Time In	12:36	Time Out	13:18
EPA Inspector(s)	Criona Doyle		
Additional Visitors	Joe Brereton; David Galvin; Cormac Mac Gearailt; Joanne Creedon.		
Company Personnel	Irish Water: Ciaran Phelan; Samantha Keane; Patrick Duggan. Tipperary County Council (acting under service level agreement to Irish Water): Josie Lyons; Tom Costello; Joe Burke.		

> Summary of Key Findings

(1) Disinfection consists of chlorination. The audit found that the disinfection system was operating satisfactorily during the inspection.

> Introduction

The Dundrum Regional Public Water Supply (PWS) produces approximately 2,681 m³/d of water serving a population of 5,185 (EDEN figures). The audit focused on the disinfection system at the Dundrum (Stooke) 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 08/01/2021.

> Supply Zones Areas Inspected

This audit assessed the chlorination disinfection system at the Dundrum (Stooke) WTP.



1. Disinfection Programme Audits 2022

		Answer
1.1	Is chlorination used for primary disinfection?	Yes
		Answer
1.2	Can you establish what type of chlorine disinfectant is used?	Yes
		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 the chlorine dosing rate fixed?	Not Applicable
		Answer
1.7	Can IW / LA confirm the target residual chlorine level for the final water leaving the plant?	Yes
		Answer
1.8	Is there a continuous residual chlorine monitor on the final water?	Yes
		Answer
1.9	Can data trends from the online residual monitor be viewed on site?	Yes
		Answer
1.10	Are there low and high chlorine alarm settings?	Yes

		Answer
1.11	Is there an alarm response procedure available on site for responding to chlorine alarms?	Yes
		Answer
1.12	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
1.13	Are service due / monitoring instrument calibration dates for the chlorine monitors within date?	Yes
		Answer
1.14	Is the site specific contact time being achieved ? If answer is NO, proceed to question 15	Yes
		Answer
1.15	Is the minimum effective contact time of 15 mg. min/l being achieved?	Not Applicable
		Answer
1.16	Is the residual chlorine level \geq 0.1 mg/l at the extremity of the distribution network?	Yes
		Answer
1.17	Have all relevant staff received training on the disinfection upgrades?	Yes

Recommendations

Subject	Dundrum Regional - Disinfection Audit	Due Date	11/07/2022
Action Text	<p>Recommendation</p> <p>Irish Water is responsible for ensuring a safe and secure supply of drinking water.</p> <p>1. Irish Water should ensure that the disinfection stage continues to be suitably managed and operated at all times.</p> <p>Follow-Up Actions required by Irish Water</p> <p>This report has been reviewed and approved by Regina Campbell, Drinking Water Team Leader.</p> <p>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.</p> <p>Please quote the Compliance Plan DW20220047 in any future correspondence in relation to this Report.</p>		