

Site Visit Report

Under the *European Union (Drinking Water) Regulations 2014* as amended, 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	South Dublin Zone 3
Organisation	Uisce Éireann
Scheme Code	0800PUB1003
County	Dublin
Site Visit Reference No.	SV27594

Report Detail	
Issue Date	14/03/2023
Prepared By	Michelle Roche

Site Visit Detail			
Date Of Inspection	20/02/2023	Announced	Yes
Time In	11:00	Time Out	11:55
EPA Inspector(s)	Michelle Roche		
Additional Visitors			
Company Personnel	Uisce Eireann: Ed Haythornthwaite, Daniel Behan, Tselo Tlou South Dublin County Council, working in partnership with Uisce Éireann: Peter Geoghegan, Derek Sargent, Declan O'Rourke and Joanne McCormack		

> Summary of Key Findings

- 1) The Brittas borehole is not capped and the well head is below ground level. Uisce Éireann should improve the protection of the well in accordance with EPA Advice Note 14: *Borehole Construction and Wellhead Protection*.
- 2) South Dublin County Council operational staff had received the Uisce Éireann incident response training, however no site specific incident response procedure was displayed at the pumphouse.
- 3) The front lip of the concrete bunding surrounding the sodium hypochlorite day tank is chipped. The bund has not been integrity tested recently, however South Dublin County Council have submitted a request to Uisce Éireann for new bunding.

> Introduction

The South Dublin Zone 3 public water supply serves a population of 517 (EDEN figure) from the Brittas borehole in Brittas village, County Dublin. The supply operates based on network demand and treatment is chlorination only with sodium hypochlorite.

> Supply Zones Areas Inspected

The Brittas borehole and chlorine dosing equipment at the pumphouse were inspected during the audit. Trend data was viewed on the HMI at the pumphouse.



1. Source Protection

		Answer
1.1	Is the abstraction source(s) adequately protected against contamination?	No
Comment		
1. The borehole is housed in a locked chamber however the borehole is not capped and the well head is below ground level.		



2. Treatment Process Chemicals

2.1

Are treatment process chemicals appropriately managed and stored?

Answer

Yes

Comment

1. The sodium hypochlorite day tank is held within a concrete bunded room at the pumphouse. The front lip of the bund was observed to be chipped.

2. The bund has not been integrity tested recently however South Dublin County Council advised that a request for new bunding has been submitted to Uisce Éireann for approval.



3. Management and Control

	Answer
3.1 Has the protozoal compliance log treatment requirement been identified for the water treatment plant?	No
Comment	
<p>1. The protozoal log treatment requirement has not been identified for the supply.</p> <p>2. No <i>Cryptosporidium</i> monitoring is taking place on the supply however weekly final water samples are being taken by Dublin City Laboratories and this includes <i>E. coli</i> monitoring.</p>	



4. Alarms, Inhibits & Oversight Audits 2023

	Answer
4.1 Is there a documented site specific incident response and incident escalation process?	No
Comment	
<p>1. South Dublin County Council operational staff have received the Uisce Éireann incident response training.</p> <p>2. No site specific Incident Response Procedure or contact details were displayed onsite on the day of the audit.</p>	

Recommendations

Subject	South Dublin Zone 3 Audit Recommendations	Due Date	14/04/2023
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 the borehole is capped and investigate the possibility of raising the well head above ground level in accordance with EPA Advice Note 14: Borehole Construction and Wellhead Protection.2. Update and display the Uisce Éireann Incident Communications Response Guidance Form with site specific information including contacts for escalation and relevant trigger levels protecting critical processes at the water treatment plant.3. Ensure suitable bunding is in place for the sodium hypochlorite day tank.4. Confirm the log treatment requirement for the supply following the completion of the site sanitary survey and submit a programme of works to address any log deficit at the supply. <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 14/04/23 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>		