

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	Kilmuckridge
Organisation	Uisce Éireann
Scheme Code	3300PUB1545
County	Wexford
Site Visit Reference No.	SV29628

Report Detail	
Issue Date	28/02/2024
Prepared By	David O'Malley

Site Visit Detail				
Date Of Inspection	01/02/2024	Announced	Yes	
Time In	10:15	Time Out	11:30	
EPA Inspector(s)	David O'Malle	David O'Malley		
Additional Visitors				
Company Personnel	Wexford (in p	n: Denis McGrath partnership with Uisce Éi hlin and Mick Kavanagh	ireann):Barry Hammell, Fionnuala Callery, ı.	

>

Summary of Key Findings

The audit found deficiencies at the WTP due to a lack of alarm setpoints or automatic shutdowns for turbidity.

An appropriate cascade system and associated procedures are not documented into a one pager and in a prominent position at the WTP.

A source and sanitary survey should be completed by Uisce Éireann to confirm the 3 log protozoal treatment requirement in place at the WTP.



Introduction

The Kilmuckridge Public Water Supply (PWS) supplies an average of 364 m3/day of water, serving a population of 940. The source for the supply is a borehole, treatment consists of UV disinfection, chlorination and treated water is stored in an off-site reservoir.

The audit was undertaken to assess Uisce Éireann's performance in producing clean and wholesome water with a focus on the alarms and inhibits in place at the water treatment plant (WTP) and the procedures in place to ensure appropriate oversight of treatment processes.

>

Supply Zones Areas Inspected

The UV disinfection system, chlorination dosing system and pumps at WTP were inspected. The off-site reservoir, chlorine monitor and pumps were also inspected.



1. Protozoal Barriers Audits 2024

1.1	Has UÉ identified the protozoal compliance log treatment requirement for the	No
	water treatment plant?	

Comment

1. The protozoal compliance log treatment requirement assigned for the treatment plant is a 3 log requirement. A source and sanitary survey has not been completed to confirm the calculated log treatment value for the supply.

Answer



2. Alarms, Inhibits & Oversight Audits 2024

		Answer
2.1	Are suitable plant shutdowns/inhibits in place to prevent the entry of inadequately treated water entering the distribution network?	No

Comment

1. There is a turbidity monitor located on the inlet pipe at Kilmuckridge WTP. There was no turbidity plant alarms or shutdown setpoints in place.

		Answer
2.2	Is there a documented alarm response procedure?	No

Comment

1. Alarms are issued to mobile phones via SCADA to plant operators and supervisors and they are responded to accordingly. However, there is no documented process detailing the cascade system and associated procedures at the WTP.

Recommendations

and s	Éireann is responsible for ensuring a clear hould implement the following recommends. Ensure turbidity monitor has appropriate alarm. Uisce Éireann should a) ensure that there is a generated at the plant b) ensure that there is a responding to and escalating all alarms gener procedure should clearly document the correct.	ations without n settings and in cascade system documented p ated at the wate	delay. hibits. for responding to alarms rocedure in place for treatment plant. The
	Uisce Éireann should a) ensure that there is a generated at the plant b) ensure that there is a responding to and escalating all alarms gener	cascade syster a documented p ated at the wate	m for responding to alarms rocedure in place for er treatment plant. The
2.	generated at the plant b) ensure that there is a responding to and escalating all alarms gener	a documented pated at the water	rocedure in place for r treatment plant. The
	responsibilities and c) ensure that all staff are		
3.	Complete a source and sanitary survey and c requirement for the supply.	onfirm the assig	ned log treatment
Actio	ns required by Uisce Éireann		
			audit findings and that action
			udit report should, where
T	Action Ouring nust I Jisce action	3. Complete a source and sanitary survey and correquirement for the supply. Actions required by Uisce Éireann During the audit, Uisce Éireann representatives were nust be taken by Uisce Éireann to address the issue Disce Éireann should submit a report to the EPA on actions taken and planned, with timescales, to close The EPA advises that the findings and recommendations.	Complete a source and sanitary survey and confirm the assig requirement for the supply.