

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 | Carrickmacross |
| Organisation | Uisce Éireann |
| Scheme Code | 2400PUB1005 |
| County | Monaghan |
| Site Visit Reference No. | SV29685 |

| Report Detail | |
|--------------------|----------------|
| Issue Date | 27/02/2024 |
| Prepared By | Lorcan Farrell |

| Site Visit Detail | | | |
|----------------------------|---|------------------|-------|
| Date Of Inspection | 21/02/2024 | Announced | Yes |
| Time In | 10:40 | Time Out | 12:00 |
| EPA Inspector(s) | Lorcan Farrell | | |
| Additional Visitors | | | |
| Company Personnel | Uisce Éireann: Fionnuala Bonner, Yvonne McMonagle. Veolia (operating under DBO contract to Uisce Éireann): Catherine Furey, Robert McCann, Aaron Murray. | | |

> Summary of Key Findings

1. The audit found that Carrickmacross Water Treatment Plant (WTP) was operating satisfactorily on the day of the audit.
2. A communications issue was preventing the transmission of information between the treatment plant and Veolia's SCADA system leading to gaps in trended SCADA data.

> Introduction

Carrickmacross Public Water Supply serves a population of 5,173 people (EDEN) and is supplied by Carrickmacross WTP. The treatment plant produces between 1,300 - 1,400 m³/day depending on demand and sources its water from multiple boreholes at sites located within the local vicinity of the treatment plant. Treatment consists of coagulation, flocculation, clarification, filtration, UV disinfection, chlorination and fluoridation.

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 treatment plant and the procedures in place to ensure appropriate oversight of treatment processes.

> Supply Zones Areas Inspected

The audit included a site tour of Carrickmacross WTP.



1. Alarms, Inhibits & Oversight Audits 2024

| | Answer |
|-----|--|
| 1.1 | Did plant performance trends demonstrate that data was being captured and recorded at all times? Comment 1. Trends submitted before the audit contained periods of time where data appeared to not be captured accurately. Veolia staff confirmed that an intermittent communications issue had been experienced over the previous month which was preventing the trending of treatment plant performance data on the Veolia SCADA system. It was confirmed that repairs were scheduled for the week starting 26/02/2024 to remedy the issue. 2. Veolia staff confirmed that during the times when plant performance data was not being captured via trends, staff have the ability to remotely view real-time process data via remote log-in to confirm the status of treatment plant operations. It was also confirmed that plant alarm and inhibits remain fully functional during these times as they are controlled locally at the treatment plant. |

Recommendations

| | | | |
|--------------------|--|-----------------|------------|
| Subject | Carrickmacross Audit Recommendations | Due Date | 27/03/2024 |
| Action Text | <p>Uisce Éireann is responsible for ensuring a clean and wholesome supply of drinking water and should implement the following recommendation without delay.</p> <p>1. Resolve the communications issue between Carrickmacross Water Treatment Plant and the Veolia SCADA system to ensure that treatment process data is captured and available at all times to assist in the protection of treatment barriers.</p> <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 27/03/2024 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> | | |