



# MCERTS - EDM Inspection Report

## Rowen WwTW

20 May 2025

Report No. CFS/18049





## Site Information



<b>Site Name:</b>	Rowen WwTW	
<b>Consent/Permit Holder:</b>	Dŵr Cymru Welsh Water	
<b>Site Address:</b>	Opposite Roewen Primary School Rowen Conwy LL32 8TS	
<b>Site Contact:</b>	Statutory & Regulatory Maintenance Manager	
<b>Contact Phone Number:</b>	mcerts@dwrwymru.com	
<b>Site Ref or Postcode:</b>	477	
<b>Grid Ref (Sensor):</b>	SH 76017 71784	
<b>Consent/Permit No:</b>	CG0089401	
<b>Location of EDM Sensor:</b>	Waste water overflow to storm management system	
<b>Number of EDMs:</b>	1	
<b>Instrument Type:</b>	Type A (non contact) - R	
<b>Instrument/Device(s):</b>	Vega Vegamet 862 with C 22	
<b>Level Meter Serial Number:</b>	73095652	
<b>Sensor Serial Number:</b>	69211904	
<b>Date of Inspection:</b>	20/05/2025	
<b>Inspector:</b>	Edward Moncrieff - MI 23 031/1	
<b>Inspection Report No:</b>	CFS/ 18049	
<b>Survey Pack:</b>	H	* Kit Inventory and calibration data recorded on central QMS database
<b>Uncertainty:</b>	± 2.1 mm	<b>P A S S</b>
<b>Site Compliance:</b>	Following a site inspection, the measurement system was found to meet the requirements of the Environment Agency <i>MCERTS: requirements for installing and using event duration monitors - MCERTS Performance Standard</i> . Published 28th August 2024	

## Site Details

### Site Description

Rowen WwTW is a sewage treatment works with biological trickling filters (see process diagram).

### Location of Event Monitor(s)

The EDM is located above the Dual sided storm weirs

### Overflow Point(s) Requiring Event Monitoring

Waste water overflow to storm management system (See Process Diagram.)

### Verification / Calibration

The sensor was mounted on a rigid bracket with a removable datum plate to reference the sensor height relative to the hydraulic datum. The reference height of the datum plate has been set accurately and recorded.

### Site Maintenance Arrangements, Evidence and Suitability

A routine maintenance schedule has not been confirmed but is required as part of the consent holders Quality Management System, as audited by CSA.  
The level measurement system was found to be in a satisfactory condition at the time of the Inspection.

### MCERTS Approved Product

The installed meter has a valid MCERTS Approved product certificate. Certificate number: CSA MC210360/01

### System Observed in Operation

The EDM was not observed in a storm condition during the inspection. However, there is no evidence to suggest that the system would not be suitable, during a storm event.

### Indicated Discharge Status

The indicated discharge status can be observed on site by:  
The level activation - Access to telemetry required.

### Telemetry Arrangements

The Event Monitor data is collected on the SCADA system.  
The data is transmitted using an analogue 4/20mA signal

### Inspector's Judgements or Comments About the Installation



Level Meter



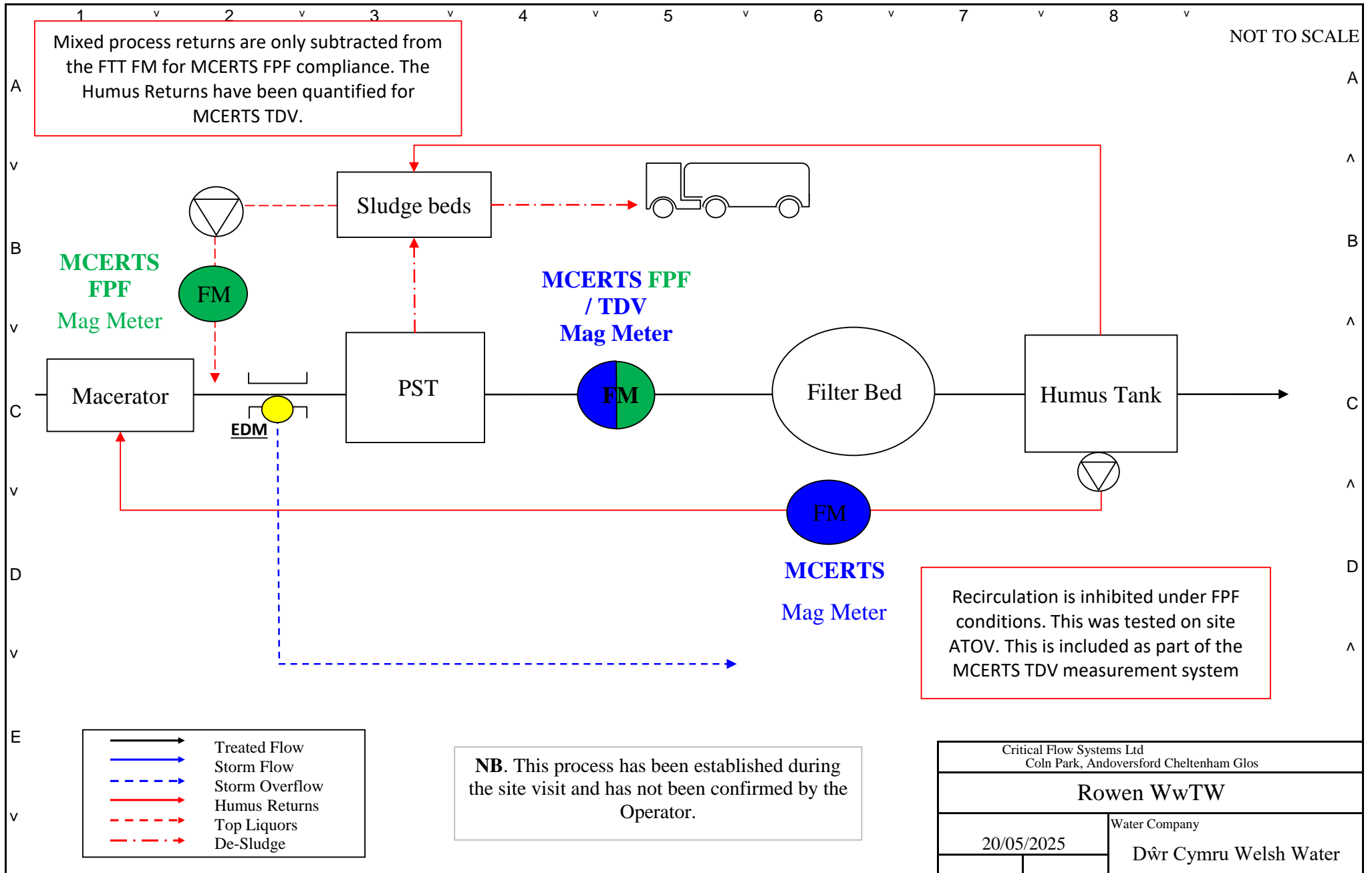
Level Meter Serial Number



EDM Location

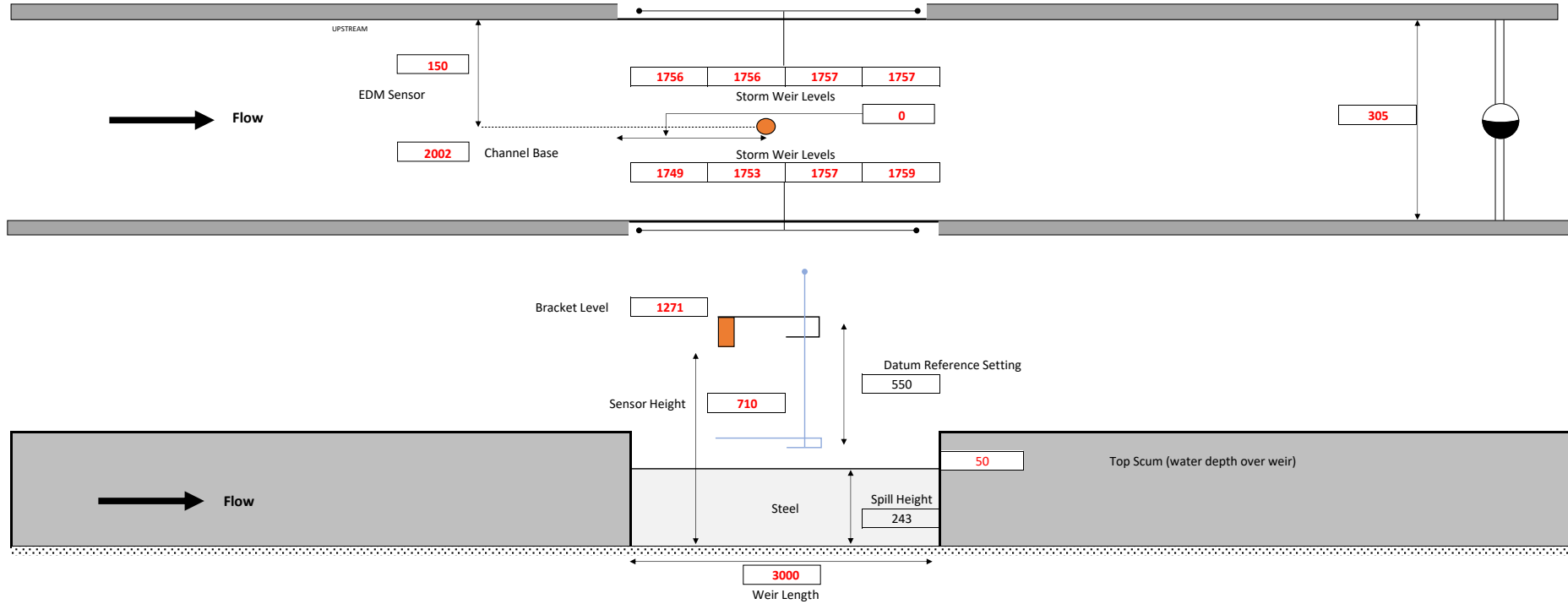


Sensor Serial Number



Site Name	Rowen WwTW	EDM Level Meter	Vega Vegamet 862 with C 22	Location	Storm Overflow
Event Duration Monitor	Date	20 May 2025			
Total Uncertainty	2.1 mm				

**DUAL SIDED STORM WEIRS**



Depth Readings	
181	181
181	181
181	181
181	181
181	181
<b>VAR +1</b>	<b>1.00</b>

Measured Temp.	0 °C
Instrument Temp.	0 °C
<b>Error</b>	<b>0.0 mm</b>
Datum Level	181 mm
Instrument Level	181 mm
<b>Error</b>	<b>0 mm</b>
Sensor height above spill	467 mm
Accuracy	0.09 %
<b>Error</b>	<b>0.42 mm</b>
<b>Estimate of wave height</b>	<b>4 mm</b>
<b>Repeatability<sup>#1</sup></b>	<b>0.4 mm</b>
<b>Total Uncertainty</b>	<b>2.1 mm</b>

Sensor Height	710 mm
Base Level	2002 mm (Staff Reading)
Lowest Weir Level	1759 mm (Staff Reading)
Spill Height	243 mm

Analogue Output	0 mm - 4mA
	703 mm - 20mA
Storm Event Activated	244 mm - 9.55 mA
Event De-Activated	239 mm - 9.44 mA

Bracket Level	1271	Staff Reading
Bobbin	Black	(550 mm)
Datum Reference Height	181	mm

Compliance Check	
Uncertainty < ±5mm	OK
Logging Intervals <2min	OK
Sensor location upstream from weir	Not applicable
Sensor distance to weir	OK
Sensor securely mounted	OK
Sensor Height	OK
Sunshade Required	No
Sunshade Installed	No
Sensor in channel centre	OK

Notes: #1 Repeatability uses IS4359 14.5.1  
Total Uncertainty uses Error items in 'bold'

All dimensions in mm, unless stated otherwise.