

# MCERTS - EDM Inspection Report

## Trevine WwTW

22 July 2025

Report No. CFS/ 18687



Version No. 25.7

<b>Site Name:</b>	Trevine WwTW	
<b>Consent/Permit Holder:</b>	Dŵr Cymru Welsh Water	
<b>Site Address:</b>	Nr 42 Ffordd Y Felin Trefin Pembrokeshire SA62 5AX	
<b>Site Contact:</b>	Statutory & Regulatory Maintenance Manager	
<b>Contact Phone Number:</b>	mcerts@dwrwymru.com	
<b>Site Ref or Postcode:</b>	50800	
<b>Grid Ref (Sensor):</b>	SM 83690 32318	
<b>Consent/Permit No:</b>	BH0052401	
<b>Location of EDM Sensor:</b>	Last in line overflow	
<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>	69915196	
<b>Sensor Serial Number:</b>	73229606	
<b>Date of Inspection:</b>	22/07/2025	
<b>Inspector:</b>	Tom Green - MI 25 036	
<b>Inspection Report No:</b>	CFS/ 18687	
<b>Survey Pack:</b>	I	* Kit Inventory and calibration data recorded on central QMS database
<b>Uncertainty:</b>	± 1.2 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

Trevine 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

Last in line overflow (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:

A secondary display/indicator.

## 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



MCERTS EDM Display



MCERTS EDM System



MCERTS EDM Sensor



Storm Overflow Weir

	Device name <b>VEGAMET 862</b>
	Serial number <b>69915196</b>
Meas. loop 1 inlet channel EDM	210.78mm Filling height
By tapping onto a measured value, you can change the measured value type.	
	OK

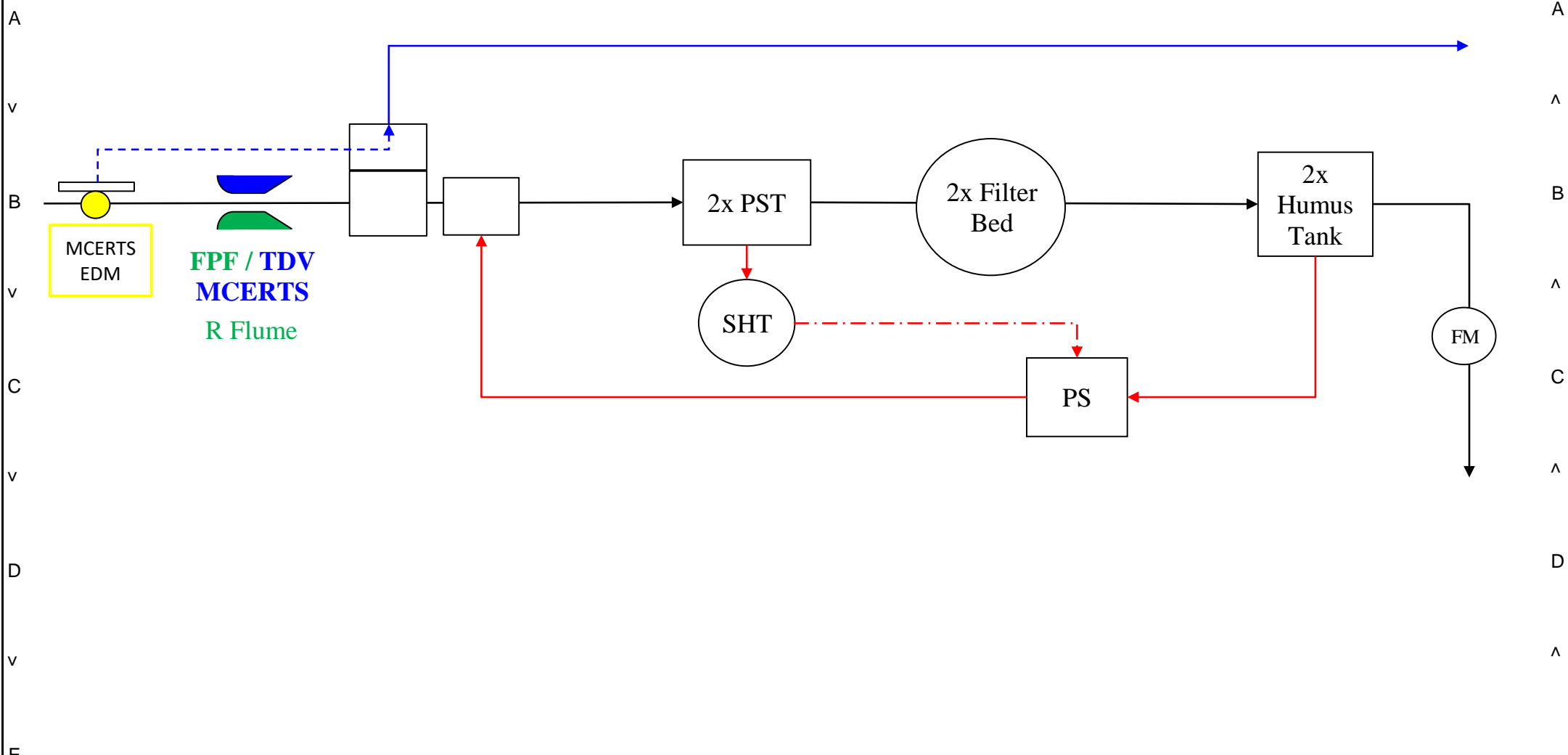
Display & Sensor Details

	Device name <b>VEGAPULS C 22</b>
	Serial number <b>73229606</b>
<b>36.10 %</b> Percent	<b>36.10 %</b> Lim. percent
	<b>211 mm</b> Filling height
By tapping onto a measured value, you can change the measured value type.	
	OK


Sensor value A	0.00 mm
Min. adjustment in percent	0.00 %
Sensor value B	584 mm

Scaling 100 %	584 mm	>
Scaling 0 %	0 mm	>

Empty Distance & Scaling

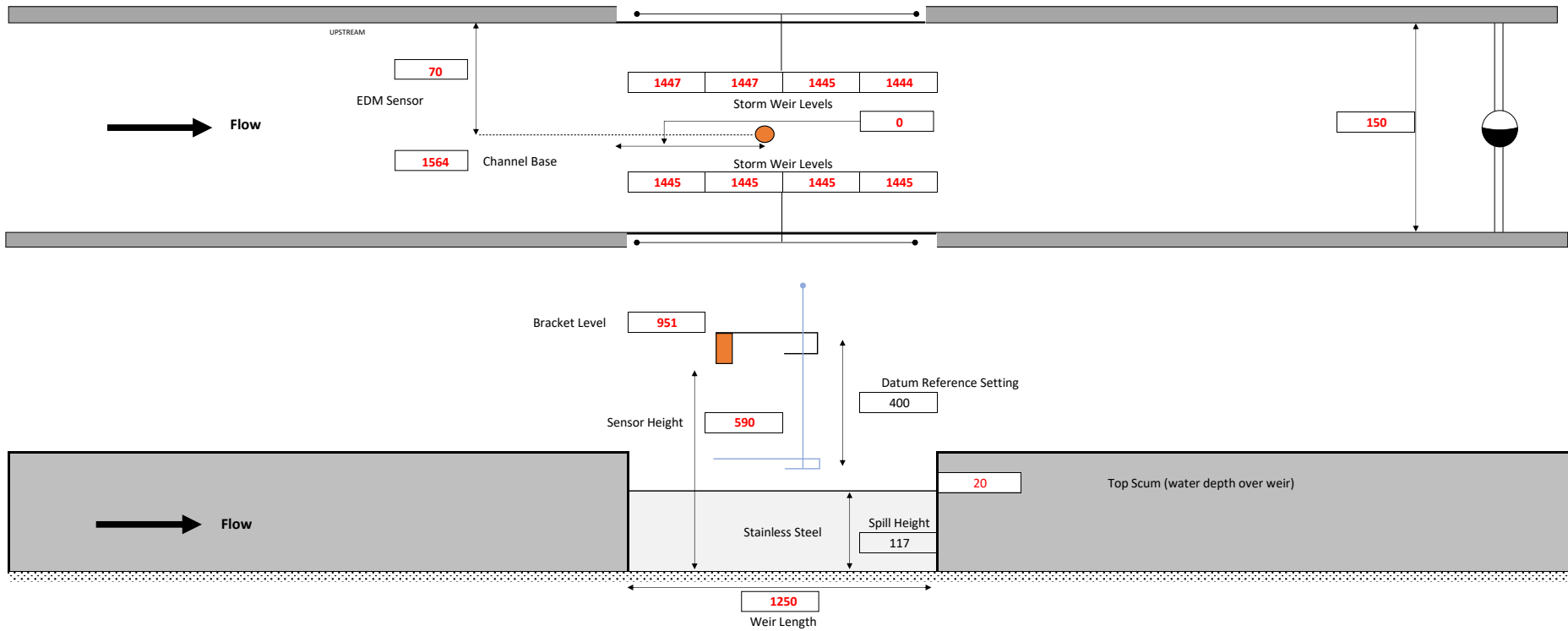


**NB.** This process has been established during the site visit and has not been confirmed by the Operator.

 Critical Flow Systems Ltd Coln Park, Andoversford Cheltenham Glos	
<b>Trevine WwTW</b>	
22/07/2025	Water Company
Rev.	C
Dŵr Cymru Welsh Water	

Site Name	Trevine WwTW	EDM Level Meter	Vega Vegamet 862 with C 22	Location	Storm Overflow
Event Duration Monitor	Date	22 July 2025			
Total Uncertainty	1.2 mm				

**DUAL SIDED STORM WEIRS**



Depth Readings	
213	213
213	213
213	213
213	213
213	213
VAR +1	1.00

Measured Temp.	0 °C
Instrument Temp.	0 °C
<b>Error</b>	<b>0.0 mm</b>
Datum Level	213 mm
Instrument Level	213 mm
<b>Error</b>	<b>0 mm</b>
Sensor height above spill	473 mm
Accuracy	0.09 %
<b>Error</b>	<b>0.43 mm</b>
<b>Estimate of wave height</b>	<b>2 mm</b>
<b>Repeatability<sup>#1</sup></b>	<b>0.4 mm</b>
<b>Total Uncertainty</b>	<b>1.2 mm</b>

Sensor Height	590 mm
Base Level	1564 mm (Staff Reading)
Lowest Weir Level	1447 mm (Staff Reading)
Spill Height	117 mm

Analogue Output	0 mm - 4mA
	584 mm - 20mA
Storm Event Activated	118 mm - 7.23 mA
Event De-Activated	113 mm - 7.1 mA

Bracket Level	951	Staff Reading
Bobbin	White	(400 mm)
Datum Reference Height	213	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.