MCERTS - EDM Inspection Report

Bodedern WwTW

30 September 2025

Report No. CFS/ 19243v1

Version No. 25.8

Site Information

Site Name:	Bodedern WwTW
Consent/Permit Holder:	Dŵr Cymru Welsh Water
Site Address:	Off Church Street Bodedern Anglesey LL65 3UA
Site Contact:	Statutory & Regulatory Maintenance Manager
Contact Phone Number:	mcerts@dwrcymru.com
Site Ref or Postcode:	482
Grid Ref (Sensor):	SH 33220 80539
Consent/Permit No:	CG0114001
Location of EDM Sensor:	Waste water overflow to storm management system
Number of EDMs:	1
Instrument Type:	Type A (non contact) - R
Instrument/Device(s):	Vega Vegamet 862 with C 22
Level Meter Serial Number:	73681650
Sensor Serial Number:	73229854
Date of Inspection:	30/09/2025
Inspector:	Edward Moncrieff - MI 23 031/1
Inspection Report No:	CFS/ 19243v1
Survey Pack:	H
Uncertainty:	± 2.1 mm
Site Compliance:	Following a site inspection, the measurement system was found to meet the requirements of the Environment Agency *MCERTS: requirements for installing and using event duration monitors - MCERTS Performance Standard.* Published 28th August 2024

* Kit Inventory and calibration data recorded on central QMS database

P A S S

Site Details

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

Location of Event Monitor(s)
The EDM is located above the Right sided storm weir in a channel

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.

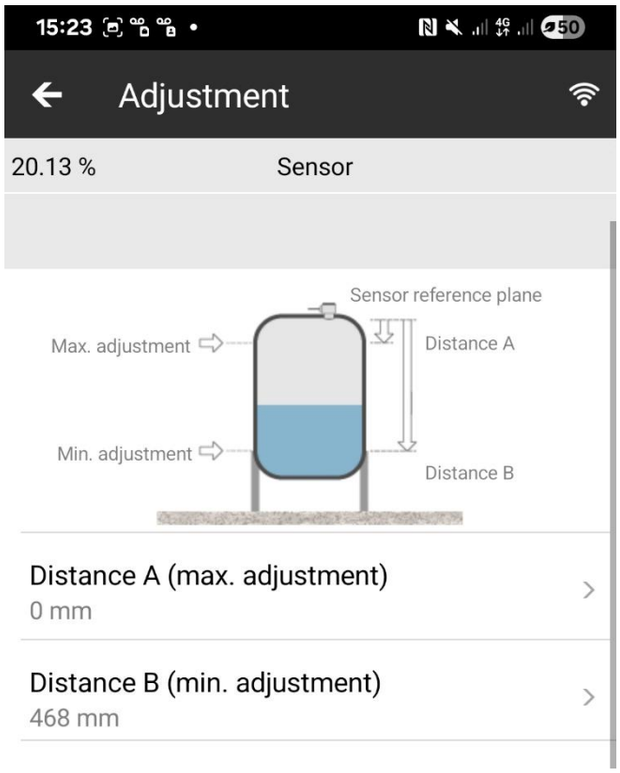
Indicated Discharge Status
The indicated discharge status can be observed on site by: The level activation - Access to telemetry required.

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

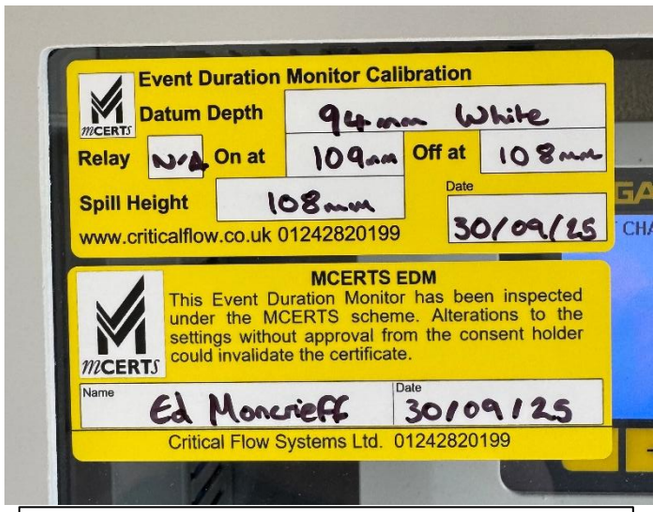
Inspector's Judgements or Comments About the Installation
V1 report issued with the following amendments: On/Off spill points adjusted. Telemetry commissioned 15/01/2026

Level Meter Location.

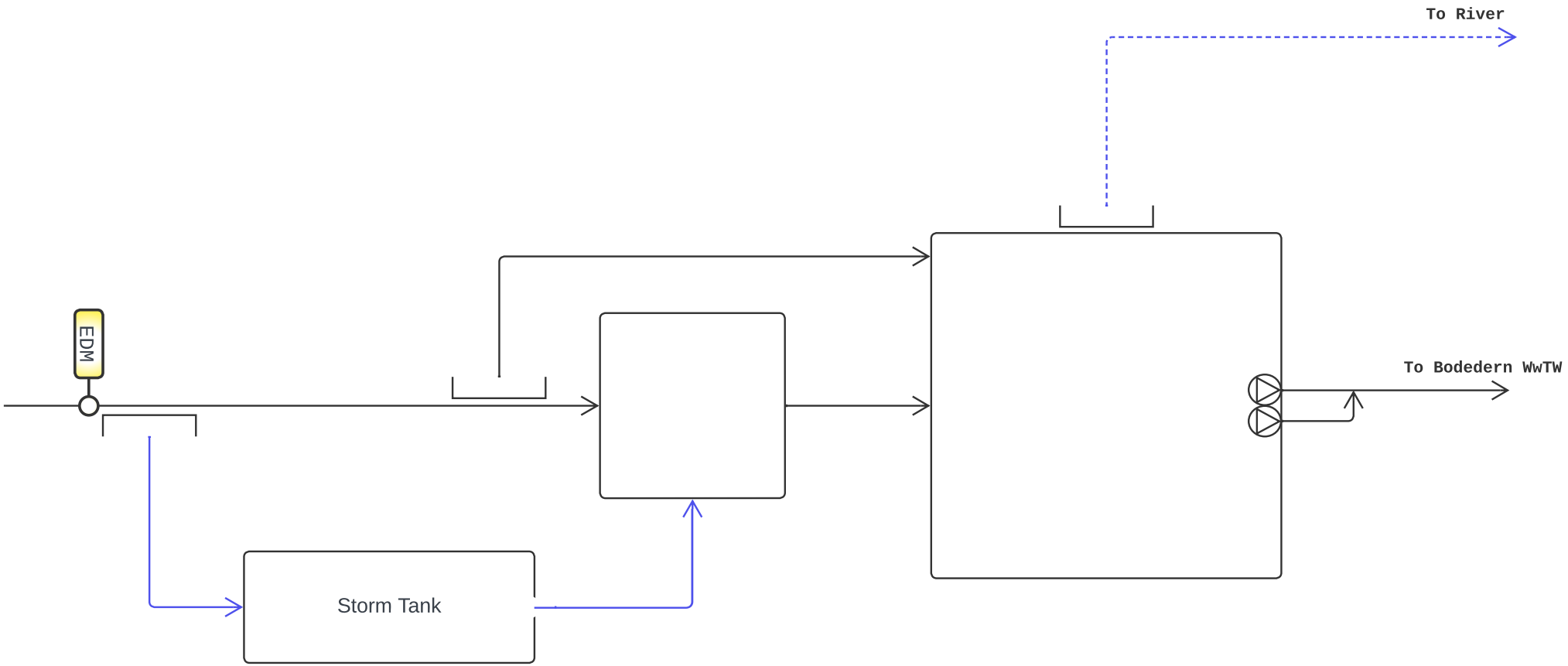
Sensor Location and S/N.



Final A : B Distances.



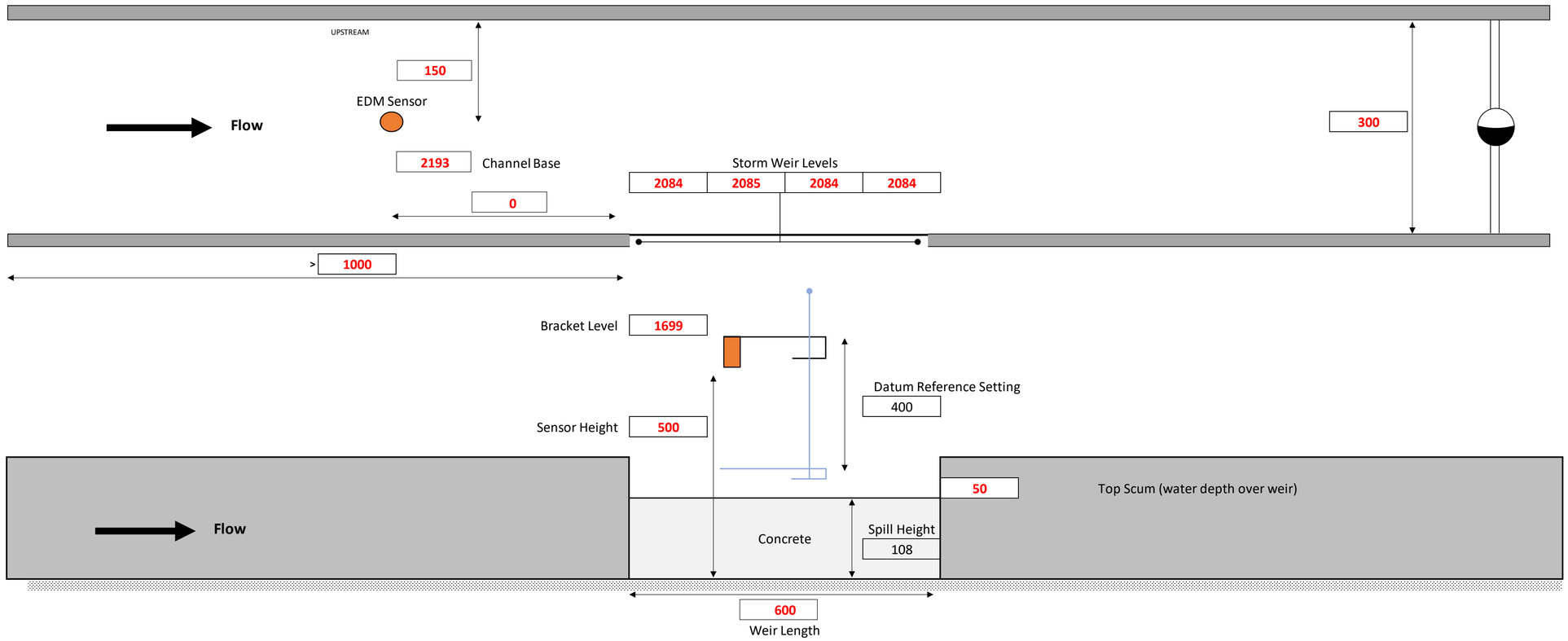
Final Calibration Settings.



Treated Flow Storm Flow Storm Overflow Humus Returns Top Liquors De-Sludge Washwater	*Process interpreted from site visit and has not been confirmed*	CRITICAL FLOW	Process Diagram - Bodedern SPS	*Site Owner - DCWW*	*Date -* 30/09/2025
Comments -					

Rev	Date	Drawn By	Notes
A	30/09/2025	EM	

Site Name	Bodedern WwTW	EDM Level Meter	Vega Vegamet 862 with C 22	Location	Storm Overflow
Event Duration Monitor	Date	30 September 2025			
Total Uncertainty	2.1 mm				



Depth Readings	
94	94
94	94
94	94
94	94
94	94
VAR +1	1.00

Measured Temp.	0 °C
Instrument Temp.	0 °C
Error	**0.0** mm
Datum Level	94 mm
Instrument Level	94 mm
Error	**0** mm
Sensor height above spill	392 mm
Accuracy	0.09 %
Error	**0.36** mm
Estimate of wave height	4 mm
Repeatability#1	**0.4** mm

Total Uncertainty	2.1 **mm**

Sensor Height	500 mm
Base Level	2193 mm (Staff Reading)
Lowest Weir Level	2085 mm (Staff Reading)
Spill Height	108 mm

Analogue Output	0 mm - 4mA
	468 mm - 20mA
Storm Event Activated	108 mm - 7.69 mA
Event De-Activated	107 mm - 7.66 mA

Bracket Level	1699	Staff Reading
Bobbin	White	(400 mm)
Datum Ref. Ht.	**94**	mm

Compliance Check	
Uncertainty < ±5mm	OK
Logging Intervals <2min	OK
Sensor location upstream from weir	OK
Sensor distance to weir	OK
Sensor securely mounted	OK
Sensor Height	OK
Sunshade Required	No
Sunshade Installed	No
Sensor in channel centre	n/a

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

All dimensions in mm, unless stated otherwise.