MCERTS - EDM Inspection Report

Henllan (South) WwTW

02 October 2025

Report No. CFS/ 19255 v1

British Assessment Bureau UKAS MANAGEMENT SYSTEMS 8289
ISO 9001
QUALITY MANAGEMENT

British Assessment Bureau UKAS MANAGEMENT SYSTEMS 8289
ISO 14001
ENVIRONMENTAL MANAGEMENT

British Assessment Bureau UKAS MANAGEMENT SYSTEMS 8289
ISO 45001
HEALTH & SAFETY MANAGEMENT

Version No. 25.9

Site Information

Site Name:	Henllan (South) WwTW
Consent/Permit Holder:	Dŵr Cymru Welsh Water
Site Address:	Off B4334 Henllan Ceredigion SA44 5TE
Site Contact:	Statutory & Regulatory Maintenance Manager
Contact Phone Number:	mcerts@dwrcymru.com
Site Ref or Postcode:	50634
Grid Ref (Sensor):	SN 35425 40255
Consent/Permit No:	BN0013701
Location of EDM Sensor:	Last in line overflow
Number of EDMs:	2
Instrument Type:	Type A (non contact) - R
Instrument/Device(s):	Vega Vegamet 862 with C 22
Level Meter Serial Number:	69625544
Sensor Serial Number:	Main - 68858868 Backup - 68858870
Date of Inspection:	02/10/2025
Inspector:	Tom Green - MI 25 036
Inspection Report No:	CFS/ 19255 v1
Survey Pack:	H

* Kit Inventory and calibration data recorded on central QMS database

Uncertainty:	± 2.1mm (Main Sensor)	**PASS**
	± 2.1mm (Backup Sensor)	**PASS**

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 issued

Site Details

Site Description
Henllan (South) WwTW is a sewage treatment works with RBC treatment (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

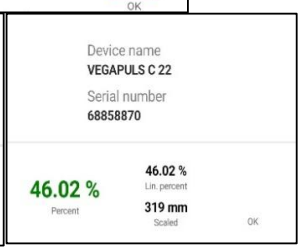
Inspector's Judgements or Comments About the Installation
V1 report issued with the following amendments: On/Off spill points adjusted. Telemetry commissioned 18/12/2025

MCERTS EDM Location

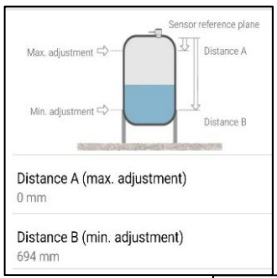
MCERTS EDM Main Sensor (Top) & Back Up (Bottom)

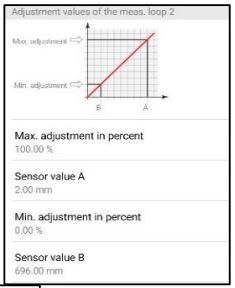
MCERTS EDM Display

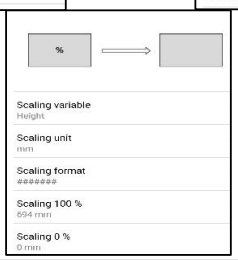
Storm Overflow Weir



Meter & Sensor Details



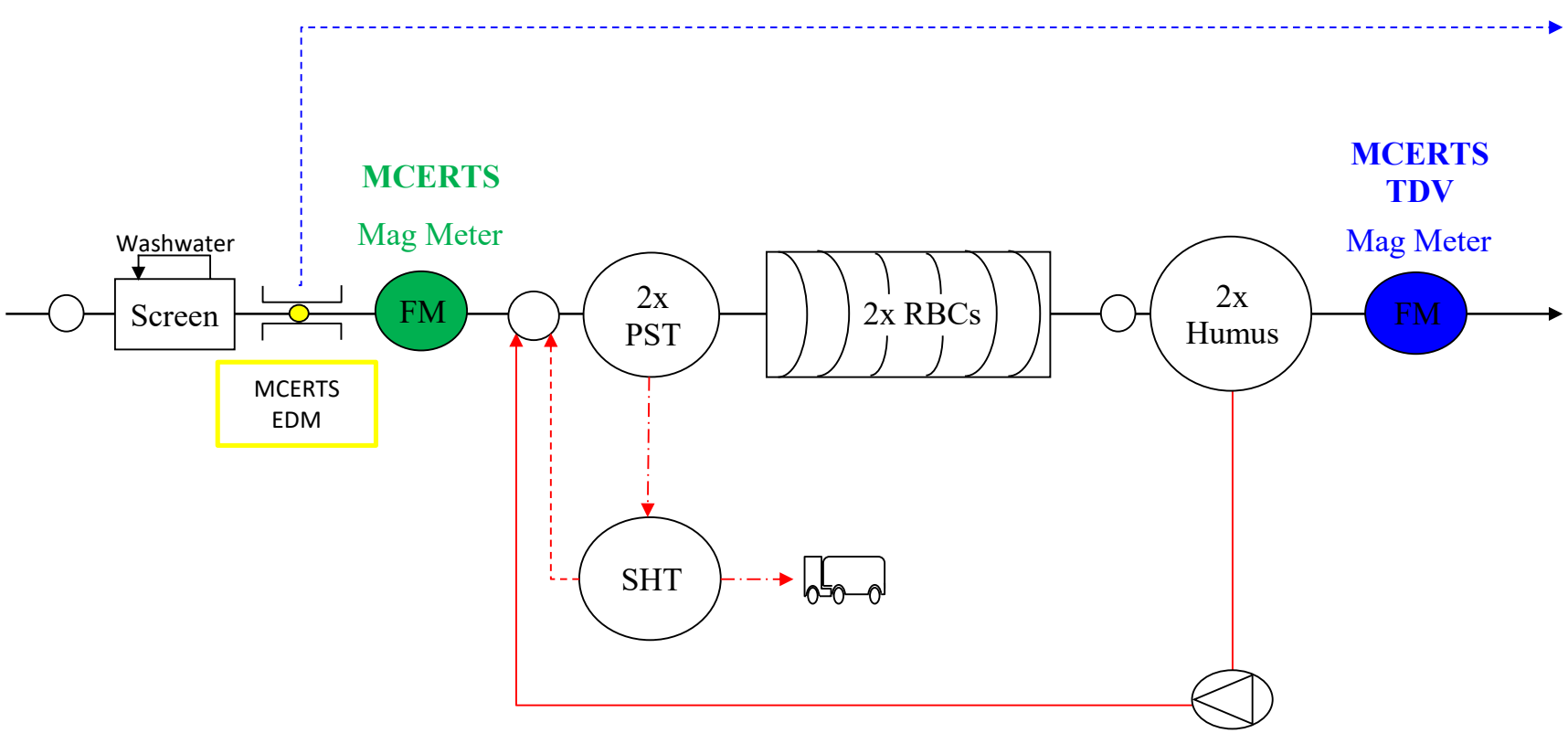




Empty Distance & Scaling

IF IN DOUBT - ASK

NOT TO SCALE



Treated Flow
Storm Flow
Storm Overflow
Humus Returns
Top Liquors
De-Sludge

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

19255 v1

Critical Flow Systems Ltd
Coln Park, Andoversford Cheltenham Glos

Henllan WwTW

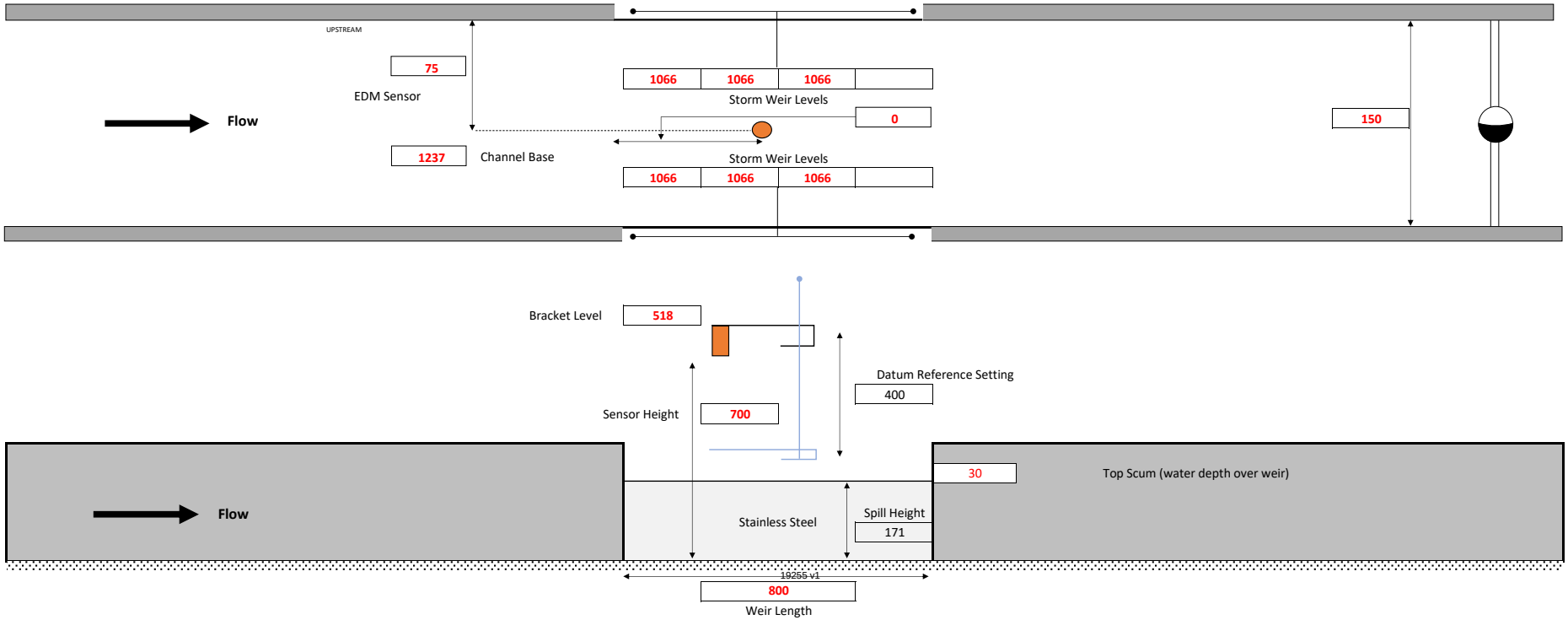
02/10/2025

Water Company
Dŵr Cymru Welsh Water

CFS/

Site Name	Henllan (South) WwTW	EDM Level Meter	Vega Vegamet 862 with C 22	Location	Storm Overflow (Main Sensor)
Event Duration Monitor	Date	02 October 2025			
Total Uncertainty	2.1 mm				

DUAL SIDED STORM WEIRS



Depth Readings	
319	319
319	319
319	319
319	319
319	319
VAR +1	1.00

Measured Temp.	0 °C
Instrument Temp.	0 °C
Error	**0.0** mm
Datum Level	319 mm
Instrument Level	319 mm
Error	**0** mm
Sensor height above spill	529 mm
Accuracy	0.09 %
Error	**0.48** mm
Estimate of wave height	4 mm
Repeatability[#1]	**0.4** mm

Total Uncertainty	**2.1 mm**

Sensor Height	700 mm
Base Level	1237 mm (Staff Reading)
Lowest Weir Level	1066 mm (Staff Reading)
Spill Height	171 mm

Analogue Output	0 mm - 4mA
	694 mm - 20mA
Storm Event Activated	171 mm - 7.94 mA
Event De-Activated	170 mm - 7.92 mA

Bracket Level	518	Staff Reading
Bobbin	White	(400 mm)
Datum Reference Height	**319**	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

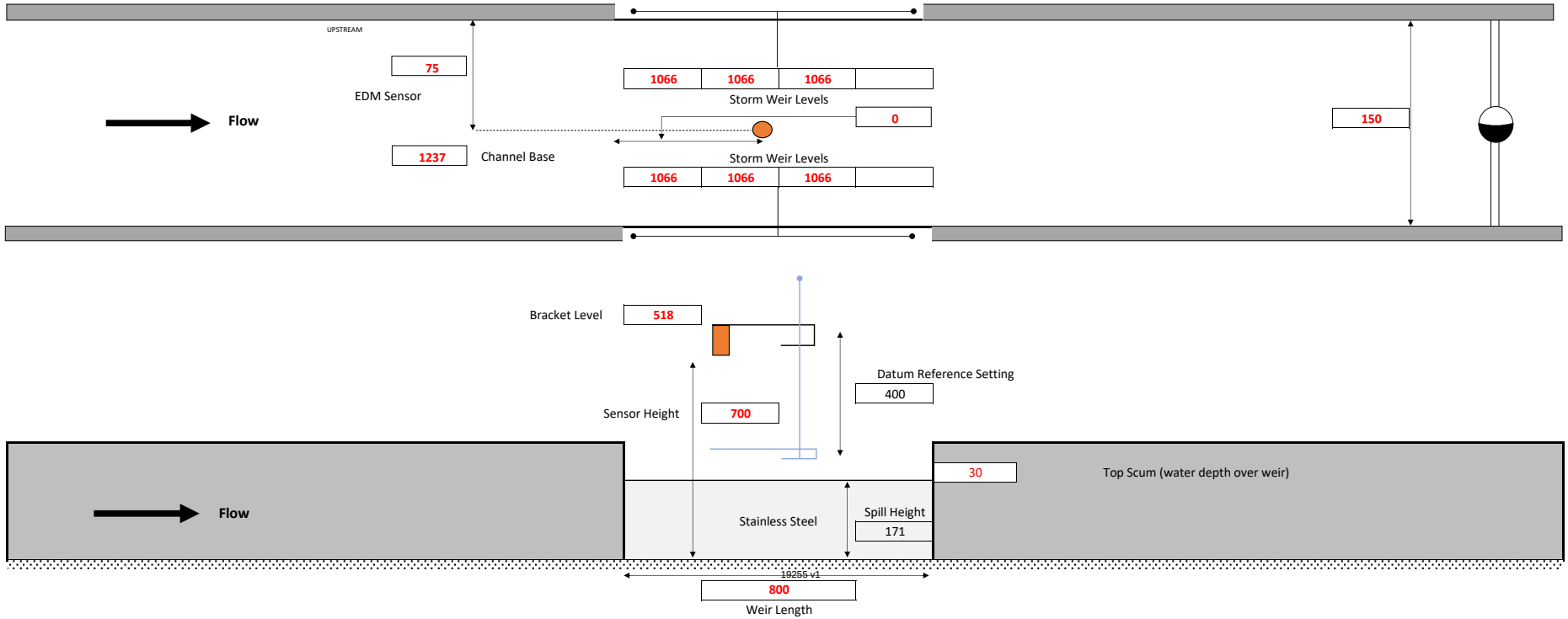
Notes: #1 Repeatability uses IS4359 14.5.1
Total Uncertainty uses Error items in 'bold'

V1 report issued with the following

All dimensions in mm, unless stated otherwise.

Site Name	Henllan (South) WwTW	EDM Level Meter	Vega Vegamet 862 with C 22	Location	Storm Overflow (Backup Sensor)
Event Duration Monitor	Date	02 October 2025			
Total Uncertainty	2.1 mm				

DUAL SIDED STORM WEIRS



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