



MCERTS - EDM Inspection Report

Solva SPS

22 July 2025

Report No. CFS/ 18704





Site Information



Site Name:	Solva SPS	
Consent/Permit Holder:	Dŵr Cymru Welsh Water	
Site Address:	Solva Harbour Car Park Solva Pembrokeshire SA62 6UU	
Site Contact:	Statutory & Regulatory Maintenance Manager	
Contact Phone Number:	mcerts@dwrwymru.com	
Site Ref or Postcode:	50776	
Grid Ref (Sensor):	SM 80539 24309	
Consent/Permit No:	BP0111701	
Location of EDM Sensor:	Sewage Pumping Station	
Number of EDMs:	1	
Instrument Type:	Type A (non contact) - R	
Instrument/Device(s):	Vega Vegamet 862 with C 22	
Level Meter Serial Number:	73095642	
Sensor Serial Number:	73229662	
Date of Inspection:	22/07/2025	
Inspector:	Joe Ramsden - MI 25 037	
Inspection Report No:	CFS/ 18704	
Survey Pack:	I	* Kit Inventory and calibration data recorded on central QMS database
Uncertainty:	± 2.6 mm	P A S S
Site Compliance:	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

Solva SPS is a sewage pumping station with storm discharge consent.

Location of Event Monitor(s)

The EDM is located above the Pump sump storm overflow pipe

Overflow Point(s) Requiring Event Monitoring

Sewage Pumping Station (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

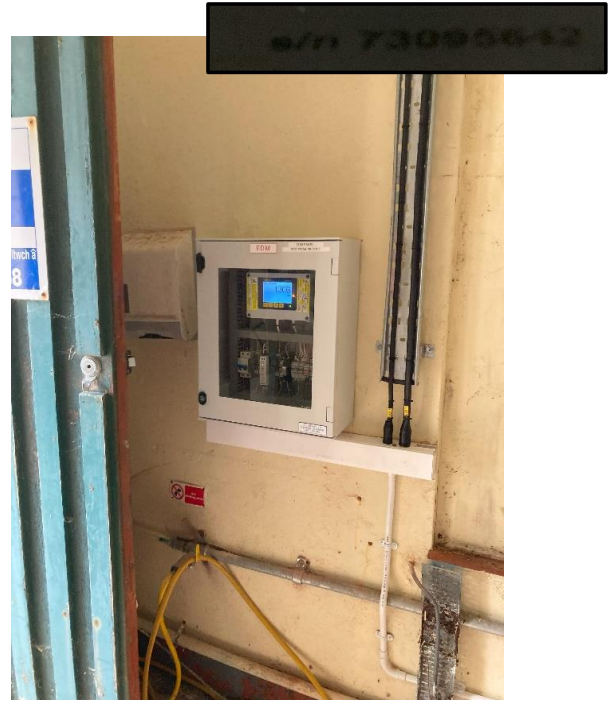
The indicated discharge status can be observed on site by:

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

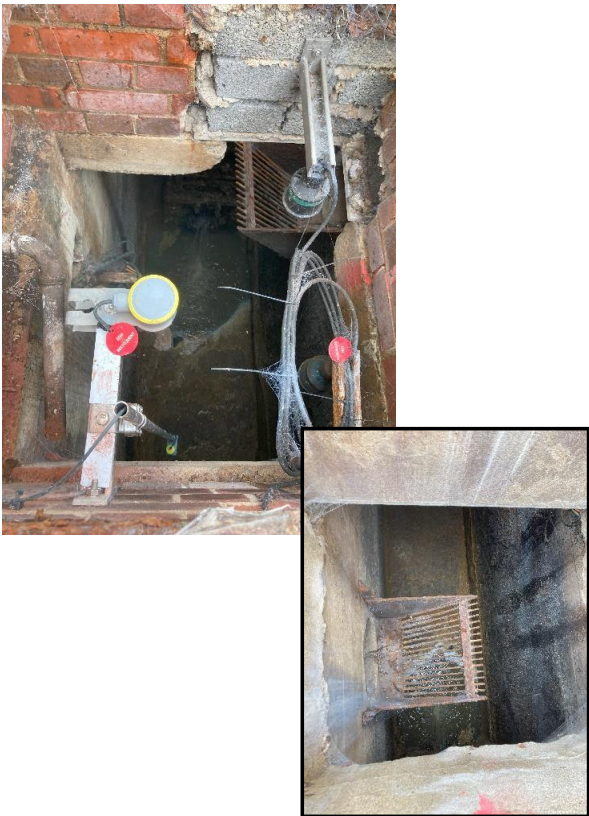
Inspector's Judgements or Comments About the Installation



Event Duration Monitor Calibration			
Datum Depth	4626mm	E 150	
Relay	On at 3824mm	Off at 3819mm	
Spill Height	3823mm	Date	22/07/16
www.criticalflow.co.uk 01242820199			

EDM Location

EDM Display, Alarm Set Points and Serial Number

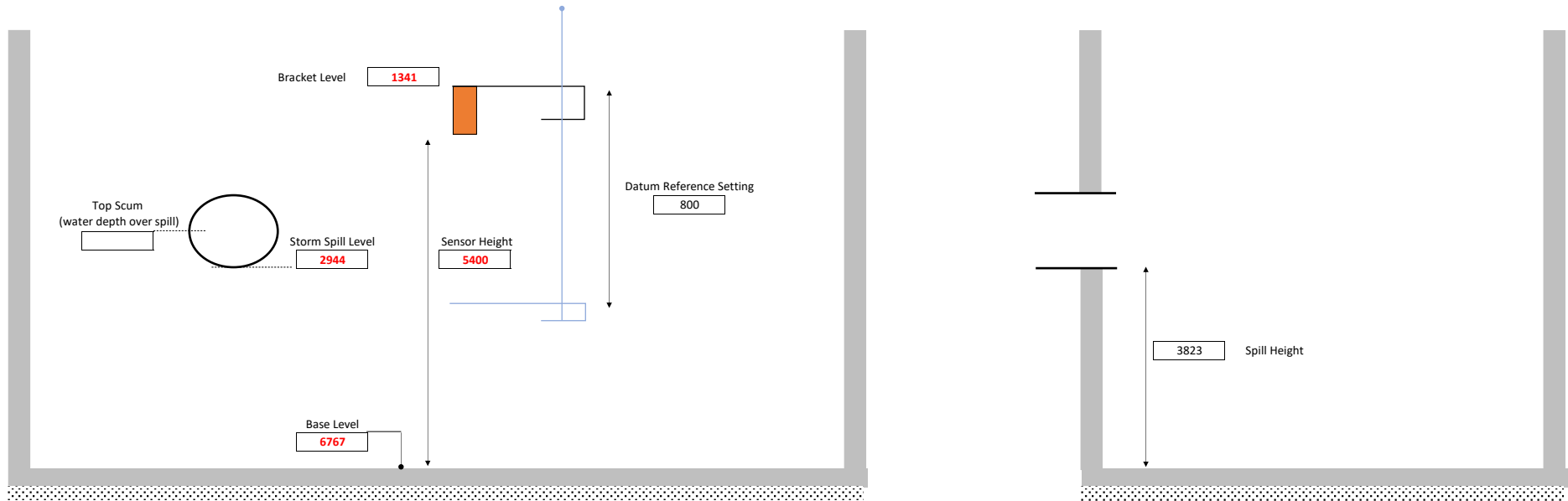


Storm Spill Location and Sensor Mounting



Sensor Location and Serial Number

Site Name	Solva SPS	EDM Level Meter	Vega Vegamet 862 with C 22	Location	Storm Overflow
Event Duration Monitor	Date	22 July 2025			
Total Uncertainty	2.6 mm				



Depth Readings	
4626	4626
4626	4626
4625	4626
4625	4626
4625	4626
VAR +1	2.00

Measured Temp.	0 °C
Instrument Temp.	0 °C
Error	0.0 mm
Datum Level	4626 mm
Instrument Level	4626 mm
Error	0 mm
Sensor height above spill	1577 mm
Accuracy	0.09 %
Error	1.44 mm
Estimate of wave height	4 mm
Repeatability#1	0.8 mm
Total Uncertainty	2.6 mm

Sensor Height	5400 mm
Base Level	6767 mm (Staff Reading)
Spill Level	2944 mm (Staff Reading)
Spill Height	3823 mm

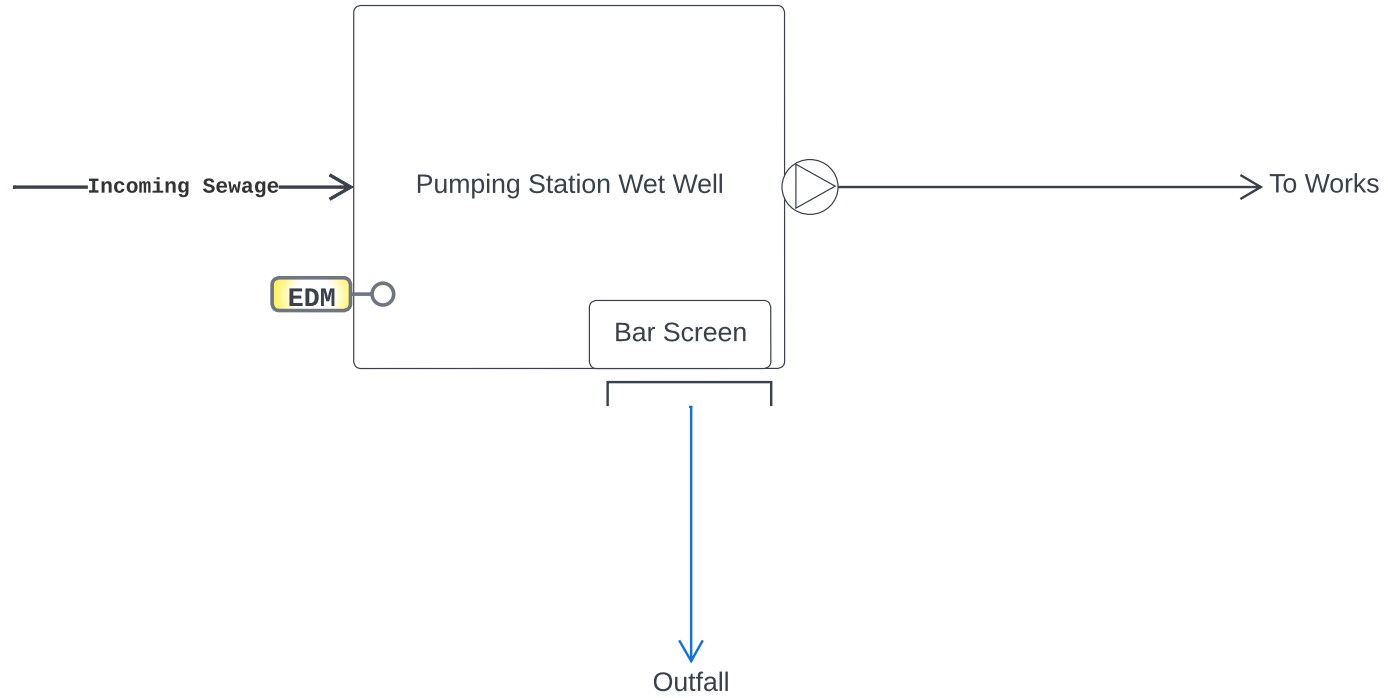
Analogue Output	0 mm - 4mA
	5400 mm - 20mA
Storm Event Activated	3824 mm - 15.33 mA
Event De-Activated	3819 mm - 15.32 mA

Bracket Level	1341	Staff Reading
Bobbin	Red	(800 mm)
Datum Ref. Ht.	4626	mm

Compliance Check	
Uncertainty < ±5mm	OK
Logging Intervals <2min	OK
Sensor distance to overflow	N/A
Sensor securely mounted	OK
Sensor Height	OK
Sunshade Required	No
Sunshade Installed	No

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

All dimensions in mm, unless stated otherwise.



<p>Treated Flow →</p> <p>Storm Flow →</p> <p>Storm Overflow →</p> <p>Humus Returns →</p> <p>Top Liquors →</p> <p>De-Sludge →</p> <p>Washwater →</p>	<p><i>Process interpreted from site visit and has not been confirmed</i></p> <p>Comments -</p>		<p>Process Diagram - Solva SPS</p>	<p>Site Owner - DCWW</p>	<p>Date - 22/07/2025</p>																			
		<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 10%;">Rev</th> <th style="width: 10%;">Date</th> <th style="width: 10%;">Drawn By</th> <th style="width: 70%;">Notes</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Rev	Date	Drawn By	Notes																		
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