

ASSET INVESTIGATION DETAILS						
SAP Asset Name:	Drummau Rd SPS		Asset Template reference	BW4100401-DRUMAU FARM BIRCHGROVE RD P.S. SSO-52447-Stage 1 - OC-Swansea		
Investigation Type	SOAF (River)					
Year of breach:	2020	Spill Trigger cause:	OC Continuation Restriction (Flow Control)			
Year of Investigation:	2022	Investigation year performance:	31			
Population of Asset	30	Modelled Performance: (DESIGN) / (CALIBRATED)	25 / 25			
Permit Details						
Storm Permit ID:	BW4100401	Storm Permit Name:	DRUMAU FARM BIRCHGROVE RD P.S. SSO			
Asset NGR:	SS7038099200	Waterbody ID	GB41002G201000			
Discharge NGR:	SS7033599241	Water body Discharge location	Nant Y Fendrod			
Brief description of asset (Screen, PFF flow control, Storage, outfall)						
<p>Incoming Pipe: 150mm; CSO Type: hole in the wall of the wet well; Screening: None consented or Installed; Flow Control: Pump; PFF Pipe: Rising main; Storage Provision: None Consented; Consent: None - Deemed Consent.</p>						
SOAF STAGE 1						
Details of assessment:	Asset condition surveys supported by hydraulic model assessment of the asset performance against available telemetry information (EDM and radar rainfall datasets).					
Permit Compliance						
PFF	Deemed Permit – Meets SocA					
Storage	N/A					
Screening	N/A					
Bespoke/Other	N/A					
SOAF Stage 1 findings						
<p>Following the hydraulic model assessment, the cause of the high spills at the asset is concluded to be OC Continuation Restriction (Flow Control).</p> <p>There is a drastic decrease in EDM spill counts between 2020 / 2021 and 2022 with spills recording from 105 / 97 to 31. OC Survey comments in 2021 state: "Pump No2 is only pumping a very little amount of flow, operator was informed on the day of the survey - urgent attention required". It appears the issue with the pump was resolved in 2021 however no SAP data is available to confirm this. It has therefore been assumed the decrease in spills can be attributed to some form of pump maintenance following the survey visit.</p> <p>Due to the decrease in spills between 2020 and 2021 and 2022, OC Continuation Restriction (Flow Control) has been determined as the cause of spill. Spills fall below the 40 threshold in 2022 and is therefore not considered a high spiller.</p>						
Cause of spill count :	Other Cause	Yes	Catchment Hydraulic	No	Infiltration & IRP required	No
Future Operational Management Proposal:	The primary cause of the spills are operational factors that have been assessed as deliverable in the short term. The asset has been added to the SOAF Intervention programme with the details outlined below.					
Operational intervention required:	None					
SOAF Operational Intervention						
Start Date:	Jul-24	Completion Date:	TBC	Indicative future annual spill performance (less than 40 do not continue to stage 2)	25	

Intervention Description:	N/A				
Target Completion by Date:	Jan-00	Data years to be excluded from future SOAF triggers calculations	-	Request to hold stage 2 surveys for environment recovery	

SOAF STAGE 2					
Receiving Waterbody WFD Status					
Stage 2a					
Aesthetic survey:	Spring		Aesthetic Total score (inclusive of amenity classification, previous complaints & pollutions)		
	Autumn				
Stage 2b				Yes / No unable due to culverted watercourse	
Invertebrate survey:	Spring		Invertebrate survey score:		
	Autumn				
Stage 2c Required:				Yes / No	
Stage 2c screening:		Progressed through screening?		Stage 2c water quality assessment Score:	

SOAF STAGE 3 - STEP 1>3						
Options assessed	Rainscape		Traditional Storage	N	PFF Increase	
Equivalent storage volume required	-	Rainscape Cost		-	CBR	-
Bespoke future trigger agreement	40	Traditional Storage		-	CBR	-
		Other			CBR	
Key Constraints						
Future Active Management Proposal						

Conclusion and Future Spill Reduction Proposals					
Summary	<p>DRUMAU FARM BIRCHGROVE RD P.S. SSO Based on the direction from the Welsh Government led Better River Quality Task Force, DCWW Storm overflow spill reduction programme will target the elimination of ecological harm and prevention of adverse ecological impact of any SO.</p> <p>With a large programme of assets requiring improvement priority will be given to CSOs having the greatest impact in the most sensitive receiving waters.</p> <p>To ensure that the improvement delivered is long term, the improvements for each site will be based on the expectation that water quality upstream of the discharge meets good or high ecological status (GES) irrespective of the actual status of the water.</p> <p>This approach has formed the basis of DCWW's portfolio investment plan for Storm Overflows.</p> <p>DRUMAU FARM BIRCHGROVE RD P.S. SSO was shown to have an other cause issue resulting in higher spills which are expected to reduce once a resolution has been implemented.</p> <p>The asset will under take classification as part of DCWW's GN066 in AMP8, to establish any impact that there might be.</p>				
Asset Prioritisation Level	-			Delivery Predicted Period	-
Asset NEP ID	N/A	Asset NEP Driver Code	N/A	Detailed Design Predicted Period	-
Progression to Stage 5 In AMP	No				

SOAF AGREEMENT						
	Date	SOAF STAGE		Name	Contact Details	Location of Output
DCWW Approval	01/07/2024	Stage 1 - OC		Christian Phillips Adams	christian.phillipsadams@dwrcymru.com	Email
Regulator Liaison Date	Click here to enter a date					
CSO Classification						
Satisfactory	Y	Unsatisfactory	N	Sub Standard	N	
		Any operation in dry weather conditions?	N	Does not meet modern standards of engineering and aesthetic control for storm overflow structures set out in the British standard BS EN 752:2017 drain and sewer systems outside buildings	N	

Any operation in breach of permit conditions?	N	Does not have sufficient hydraulic capacity compared to accepted minimum design standards	N
Any significant visual or aesthetic impact due to solids or sewage fungus?	N	Risks becoming unsatisfactory because discharges have increased beyond the original design due to infiltration, growth and urban creep	N
Cause or significantly contributes to a deterioration in the biological or chemical status of the receiving water?	N/A		
Causes or significantly contributes to failures in bathing water quality standards for identified bathing waters?	N/A		
Causes or significantly contributes to failures in shellfish quality standards for identified shellfish waters	N/A		
Causes or significantly contribute to failures in water quality standards in coastal and transitional waters?	N/A		
Causes pollution of groundwater?	N/A		