



ASSET INVESTIGATION DETAILS			
SAP Asset Name:	GLYN CEIRIOG Y GAMMER		Asset Template reference
Investigation Type	SOAF (River)		CM0172601-GLYNCEIRIOG Y GAMMER - SSO-2433-Stage 1 - OC-Flintshire & Wrexham
Year of breach:	2019	Spill Trigger cause:	OC Continuation Restriction (Maintenance)
Year of Investigation:	2022	Investigation year performance:	26
Population of Asset	838	Modelled Performance:	22
Permit Details			
Storm Permit ID:	CM0172601	Storm Permit Name:	GLYNCEIRIOG Y GAMMER - SSO
Asset NGR:	SJ2061437967	Waterbody ID	GB111067051910
Discharge NGR:	SJ2064537915	Water body Discharge location	Ceiriog - confluence Dee to Teirw
Brief description of asset (Screen, PFF flow control, Storage, outfall)			
Incoming Pipe: 225mm; CSO Type: low-level pipe; Screening: unscreened; Flow Control: downstream network ; PFF Pipe: 225mm; Storage Provision: N/A; Consent: Soc A Deemed Consent is 14.6l/s			

SOAF STAGE 1						
Details of assessment:		Asset condition surveys supported by hydraulic model assessment of the asset performance using 2021 flow survey data.				
Permit Compliance						
PFF	Compliant - SOC A					
Storage	N/A					
Screening	N/A					
Bespoke/Other	N/A					
SOAF Stage 1 findings						
Following the hydraulic model assessment, the cause of the high spills at the asset is concluded to be OC Continuation Restriction (Maintenance). The predicted pass-forward flow of is in excess of the Soc A value prior to the first spill. The model is fit for use, based on the reported spill numbers and telemetry trends. The trigger year of 2019 was due to a combination of a down stream restriction and telemetry issues that were resolved through maintenance and calibration.						
Cause of spill count :	Other Cause	Yes	Catchment Hydraulic	No	Infiltration & IRP required	No
Future Operational Management Proposal:						
Operational intervention required:						
SOAF Operational Intervention						
Start Date:		Completion Date:		Indicative future annual spill performance (less than 40 do not continue to stage 2)		
Intervention Description:						
Proposed Completion Date:		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			Good		
Stage 2a					
Aesthetic survey:	Spring	2022	Aesthetic Total score (inclusive of amenity classification, previous complaints & pollutions)	15	Low Impact
	Autumn	2022		10	Very Low Impact
Stage 2b				Yes / No unable due to culverted watercourse	
Invertebrate survey:	Spring	2022	Invertebrate survey score:	6	Moderate
	Autumn	2022		12	Severe
Stage 2c Required:				Yes / No	
Stage 2c screening:	Not Required	Progressed through screening?		Stage 2c water quality assessment Score:	Not required

SOAF STAGE 3 - STEP 1-3					
Options assessed	Rainscape		Traditional Storage	N	PFF Increase
Equivalent storage volume required	N/A	Rainscape Cost		N/A	CBR
Bespoke future trigger agreement	40	Traditional Storage		N/A	CBR
		Other		N/A	CBR
Key Constraints	This asset is an OC site with less than 40 spills in the design scenario.				
Future Active Management Proposal	This asset is an OC site with less than 40 spills in the design scenario.				

Conclusion and Future Spill Reduction Proposals			
Summary	<p>Based on the direction from the Welsh Government lead Better River Quality Task Force, DCWW Storm overflow spill recution 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 improvmnt 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>GLYNCEIRIOG Y GAMMER - SSO was Shown to have a other cause issue resulting in higher spills which are expected to reduce once a resolution has been implemented.</p> <p>Once the assets New spill performance is established, if this is shown to still be in excess of 10 the impact of the asset will be established as part of DCWW's Storm Overflow Water Quality Assement Strategy (SOWQAS) in AMP8</p>		
Asset Prioritisation Level	Priority 1	Detialed Design Predicted Period	AMP8/9
Asset NEP ID	N/A	Delivery Predicted Period	AMP7/8
Progression to Stage 5 In AMP	No	Proposed Solution yet to be taken through detailed design developed	

SOAF AGREEMENT					
	Date	SOAF STAGE	Name	Contact Details	Location of Output
DCWW Approval	29/06/2023	Stage 1 - OC	Christian Phillips Adams	<a href="mailto:christian.phillipsadams@dwrcymru.com">christian.phillipsadams@dwrcymru.com</a>	NRW - Sharefile
Regulator Liaison Date	<a href="#">Click here to enter a date</a>				
CSO Classification					
Satisfactory	-	Unsatisfactory	Y	Sub Standard	-
		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	-
		Any operation in breach of permit conditions?	N	Does not have sufficient hydraulic capacity compared to accepted minimum design standards	-
		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	-
		Cause or significantly contributes to a deterioration in the biological or chemical status of the receiving water?	Y		
		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		