

ASSET INVESTIGATION DETAILS			
SAP Asset Name:	Opp 285 Walters Rd CSO, Llansamlet		Asset Template reference
Investigation Type	SOAF (River)		BP0311401-FELIN FRAN CSO WALTERS RD LLANSAMLE-71292-Stage 1 - OC-Swansea
Year of breach:	2019	Spill Trigger cause:	OC Continuation Restriction (Maintenance)
Year of Investigation:	2021	Investigation year performance:	33 Spills
Population of Asset	2403	Modelled Performance: (DESIGN) / (CALIBRATED)	36 Spills
Permit Details			
Storm Permit ID:	BP0311401	Storm Permit Name:	FELIN FRAN CSO, WALTERS ROAD, LLANSAMLET
Asset NGR:	SS6932098494	Waterbody ID	GB110059025710
Discharge NGR:	SS6925098502	Water body Discharge location	Nant-Bran
Brief description of asset (Screen, PFF flow control, Storage, outfall)			
Incoming Pipe: 375mm; CSO Type: single-sided high level weir; Screening: 6mm; Flow Control: baffle plate ; PFF Pipe: 45l/s; Consented PFF: 45l/s; Modelled Storage Provision: 95m3; Consented Storage Provision: 120m3.			

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). Additional flow and rainfall monitoring was undertaken to improve the baseline model accuracy and assist in defining the root cause of spills.				
Permit Compliance					
PFF	Compliant - 45l/s				
Storage	Not Compliant - 95m3 modelled, 120m3 permitted				
Screening	Compliant - 6mm				
Bespoke/Other	N/A				
SOAF Stage 1 findings					
Primary Cause: OC Continuation Restriction (Maintenance). Secondary Cause: N/A					
Following the hydraulic model assessment, the cause of the high spills at the asset is concluded to be OC Continuation Restriction (Maintenance), with no secondary cause of spills. The predicted pass-forward flow meets consent prior to the first spill. The model is fit for use, based on the reported spill numbers and telemetry trends. The network contains significant amounts of sediment, which is reducing storage					
Cause of spill count :	Other Cause	Yes	Catchment Hydraulic	No	Infiltration & IRP required
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:	Desilt from the asset chamber SS69983406 immediately upstream and downstream. Following maintenance activities, the asset will continue to not be compliant with the permit and investigation of the appropriateness of the current discharge permit/design set up will be required.				
SOAF Operational Intervention					
Start Date:	Nov-23	Completion Date:	0	Indicative future annual spill performance (less than 40 do not continue to stage 2)	0
Intervention Description:	A continuation restriction due to maintenance has been identified as a factor in excess spills at this asset. A cleanse of the sewerage network is required to restore compliant flows. This asset will be highlighted for future Cyclic Maintenance based upon the review of the post intervention return. Further investigation into storage available will be undertaken				
Proposed Completion Date:	Nov-24	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			Moderate		
Stage 2a					
Aesthetic survey:	Spring	2021	Aesthetic Total score (inclusive of amenity classification, previous complaints & pollutions)	10	Very Low
	Autumn	2021		0	Very Low
Stage 2b				Yes / No unable due to culverted watercourse	

Invertebrate survey:	Spring	2021	Invertebrate survey score:	6	Moderate
	Autumn	2021		0	No Impact
Stage 2c Required:				Yes / No	
Stage 2c screening:	N/A	Progressed through screening?	No	Stage 2c water quality assessment Score:	Not Required

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

Conclusion and Future Spill Reduction Proposals					
Summary	<p>FELIN FRAN CSO, WALTERS ROAD, LLANSAMLET 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 Assesment Strategy (SOWQAS) in AMP8</p>				
Asset Prioritisation Level	Priority 3			Delivery Predicted Period	AMP9/10
Asset NEP ID	DCWW102077a	Asset NEP Driver Code	W_U_O_IMP1	Detailed Design Predicted Period	AMP8/9
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	30/11/2023	Stage 1 - OC	Christian Phillips Adams	<a href="mailto:christian.phillipsadams@dwrwymru.com">christian.phillipsadams@dwrwymru.com</a>	Email
Regulator Liaison Date	<a href="#">Click here to enter a date</a>				
CSO Classification					
Satisfactory	Y/N	Unsatisfactory	Y	Sub Standard	Y
		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	Y
		Any operation in breach of permit conditions?	Y	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?	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		