

ASSET INVESTIGATION DETAILS						
SAP Asset Name:	Rhydlewis		Asset Template reference		BP0013502-RHYDLEWIS STW-52087-Stage 1 - OC-Ceredigion	
Investigation Type	SOAF (River)					
Year of breach:	2017	Spill Trigger cause:	OC Infiltration			
Year of Investigation:	2022	Investigation year performance:	48			
Population of Asset	198	Modelled Performance: (DESIGN) / (CALIBRATED)	11 / 44			
Permit Details						
Storm Permit ID:	BP0013502	Storm Permit Name:	RHYDLEWIS STW			
Asset NGR:	SN3460947282	Waterbody ID	GB110062039190			
Discharge NGR:	SN3459047299	Water body Discharge location	Nant Coll			
Brief description of asset (Screen, PFF flow control, Storage, outfall)						
<p>Incoming line: 150 mm gravity; CSO Type: low-level, double-sided weir; Screening: None; Flow Control: Flume; FFT Pipe: 150 mm; Consent: 3.2l/s;</p> <p>Wet Well spill point Volume: N/A; Spill level: 103.6mAOD; Screening: Static (Details unknown); Tank emptying philosophy: Unknown; Tank emptying Rate: Unknown</p>						
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					
Storage	N/A					
Screening	N/A					
Bespoke/Other	N/A					
SOAF Stage 1 findings						
<p>Primary Cause: OC Infiltration Secondary Cause: -</p> <p>Following the hydraulic model assessment, the cause of the high spills at the asset is concluded to be OC Infiltration, with no secondary cause of spills. The predicted pass-forward flow exceeds consent prior to the first spill. The model is fit for use, based on the reported spill numbers and telemetry trends.</p>						
Cause of spill count :	Other Cause	OC Infiltration	Catchment Hydraulic	No	Infiltration & IRP required	Yes
Future Operational Management Proposal:	<p>The primary cause of the spills are operational factors that have been assessed as requiring longer term (1+ year) intervention programmes. Given the scale of the issue, the asset will progress under a bespoke intervention programme with details to be supplied to with the regulator and other stakeholders outside of the normal SOAF processes</p>					
Operational intervention required:	<p>Site EDM audit required. DMS is outdated. IRP</p>					
SOAF Operational Intervention						
Start Date:	Jan-24	Completion Date:	TBC	Indicative future annual spill performance (less than 40 do not continue to stage 2)	11	
Intervention Description:	<p>Infiltration has been identified as a factor in excess spills at this asset. An infiltration reduction plan (IRP) is in the process of development to address the problem. It is recognised in the Storm Overflow Assessment Framework that investigation and resolution of infiltration issues can be difficult and that solutions may be iterative with IRPs potentially only succeeding over the medium to long-term.</p>					
Proposed Completion Date:	Jan-29	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	2022	Aesthetic Total score (inclusive of amenity classification, previous complaints & pollutions)	20	Low Impact
	Autumn	2022		20	Low Impact
Stage 2b				Yes / No unable due to culverted watercourse	
Invertebrate survey:	Spring	2022	Invertebrate survey score:	8	High
	Autumn	2022		14	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	N
Equivalent storage volume required	-	Rainscape Cost		N/A	CBR	N/A
Bespoke future trigger agreement	40	Traditional Storage		N/A	CBR	N/A
		Other		N/A	CBR	N/A
Key Constraints						
Future Active Management Proposal						

Conclusion and Future Spill Reduction Proposals					
Summary	<p><i>RHYDLEWIS STW was Shown to have a other cause issue resulting in higher spills which are expected to reduce once a resolution has been implemented. 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 Assessment Strategy (SOWQAS) in AMP8</i></p>				
Asset Prioritisation Level	Priority 1			Delivery Predicted Period	AMP8/9
Asset NEP ID	DCWW101958a	Asset NEP Driver Code	W_U_O_IMP1	Detailed Design 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	05/01/2024	Stage 1 - OC	Christian Phillips Adams	christian.phillips@dams@dwrcymru.com	Email
Regulator Liaison Date	Click here to enter a date				
CSO Classification					
Satisfactory	N	Unsatisfactory	Y	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?	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