

ASSET INVESTIGATION DETAILS			
SAP Asset Name:	Drury lane CSO	Asset Template reference	932-QUEENSFERRY- 2033 SOAF v4.0
Investigation Type	SOAF (River)		
Year of breach:	2019	Spill Trigger cause:	Hydraulic
Year of Investigation:	2019	Investigation year performance:	73 Spills
Population of Asset	1301	Modelled Performance:	66 Spills
Permit Details			
Storm Permit ID:	CM0039401	Storm Permit Name:	SEWERAGE SYSTEM ADJACENT TO LOWER FARM, DRURY
Asset NGR:	SJ2996064496	Waterbody ID	GB111067052160
Discharge NGR:	SJ2989064440	Water body Discharge location	Sandycroft Drain (Tributary of Broughton Brook)
Brief description of asset (Screen, PFF flow control, Storage, outfall)			
<p>The CSO comprises of a high level, double sided weir with a 900mm diameter incoming pipe. There is static screening with scum boards and flow is controlled by the downstream network capacity. There is no numerical pass forward flow value on the discharge permit.</p>			

SOAF STAGE 1						
Details of assessment:		Asset condition surveys supported by hydraulic model assessment of the asset performance.				
Permit Compliance						
PFF	Compliant (SOC A)					
Storage	N/A					
Screening	Compliant					
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 hydraulic, with pass forward flow meeting required SOC A value (due to a lack of numeric consent) prior to first spill. The model is fit for use, based on the reported spill numbers and telemetry trends.						
It is recommended that the asset is progressed to Stage 2 assessment.						
Cause of spill count :	Other Cause	No	Catchment Hydraulic	Y	Infiltration & IRP required	N
Future Operational Management Proposal:						
Operational intervention required:						
SOAF Operational Intervention						
Start Date:	Month YY	Completion Date:	Month YY	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	YYYY	Request to hold stage 2 surveys for environment recovery		N/A

SOAF STAGE 2						
Receiving Waterbody WFD Status				Moderate		
Stage 2a						
Aesthetic survey:	Spring	2021	Aesthetic Total score (inclusive of amenity classification, previous complaints & pollutions)	20	Low	
	Autumn	2021		0	No impact	
Stage 2b				Yes / No unable due to culverted watercourse		
Invertebrate survey:	Spring	2021	Invertebrate survey score:	0	No impact	
	Autumn	2021		6	Moderate	
Stage 2c Required:				Yes / No		
Stage 2c screening:	-	Progressed through screening?	Not Required	Stage 2c water quality assessment Score:		0

SOAF STAGE 3 - STEP 1>3						
Options assessed	Rainscape		Traditional Storage	Y	PFF Increase	N
Equivalent storage volume required	25.19735	Rainscape Cost		£801,040.00	CBR	0.697448317
Bespoke future trigger agreement	40	Traditional Storage		£101,012.99	CBR	5.530813607
		Other		-	CBR	-
Key Constraints	Note of major factors affecting suitability of solution/pricing details					
Future Active Management Proposal	Stage 2 surveys show the asset is having an environmental impact. Solution assessment suggests that a storage solution passes the CBR threshold and the asset should proceed through to detailed benefits assessment.					

Conclusion and Future Spill Reduction Proposals

Summary	<p><i>Drury Lane was identified early on in AMP6 as having an impact and being suitable for in Amp delivery of spill reduction.</i></p> <p><i>The Detailed Benefits assessment showed solution to meet cost benefit and site was released for spill reduction scheme</i></p>		
Asset Prioritisation Level	N/A	Detialed Design Predicted Period	N/A
Asset NEP ID	N/A	Delivery Predicted Period	N/A
Progression to Stage 5 In AMP	Yes	Predicted post scheme annual Spill avergae of 0 achieved through combination of Storage and surface water removal	

SOAF AGREEMENT					
	Date	SOAF STAGE	Name	Contact Details	Location of Output
DCWW Approval	26/06/2023	Stage 4 - CBA	Christian Phillips Adams	christian.phillipsadams@dwrcymru.com	NRW - Sharefile
Regulator Liaison Date	Click here to enter a date				
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	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	Y
		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		