

Backstop Improvement Condition Extension Report

This document has been submitted to explain and evidence the need for an extension to the 12-month Backstop Improvement Condition, which has been issued to Dŵr Cymru as part of the Review of Permits process, and the subsequent investment programme of works.

WwTW Name	DINGESTOW STW
Permit Number	AS1000701
Catchment	Upper Wye
Water Body	
Can the site meet the total Phosphorus backstop limits now	No
Explanation	<ul style="list-style-type: none"> No phosphorus removal processes installed on site currently. Current long-term mean average performance 6.8 mg/l Ave. (Peak in excess of 9 mg/l)
Can the site meet the total Phosphorus in 12 months	No
Explanation	<ul style="list-style-type: none"> Current on-site assets cannot be optimised further. The current works' assets would not allow for adequate dosing or short term solution to be implemented Design and installation of additional assets required. Currently inadequate footprint on site to host the required additional assets.
Primary Extension Category	Land Purchase Risk
Secondary Extension Category	Large reconfiguration of site required
Headline category of solution	Scheme solution at optioneering stage
Details of proposed solution	Scheme solution at optioneering stage; either of the shortlisted solutions will require an extension. Nothing can be progressed immediately or short term at this WwTW.
Land purchase required	Yes anticipated, but to be confirmed at detailed design
Planning required	Yes anticipated, but to be confirmed at detailed design
Protected Area surveys & Ecology approvals	Yes
NBS Candidate	No
Partnership / Multi sector scheme candidate	No
Extension Requested	36 months
Date requested on extended permit Improvement Condition	28 th January 2028

Date submitted to NRW

5/7/2024

DCWW senior Signature

K. Howard

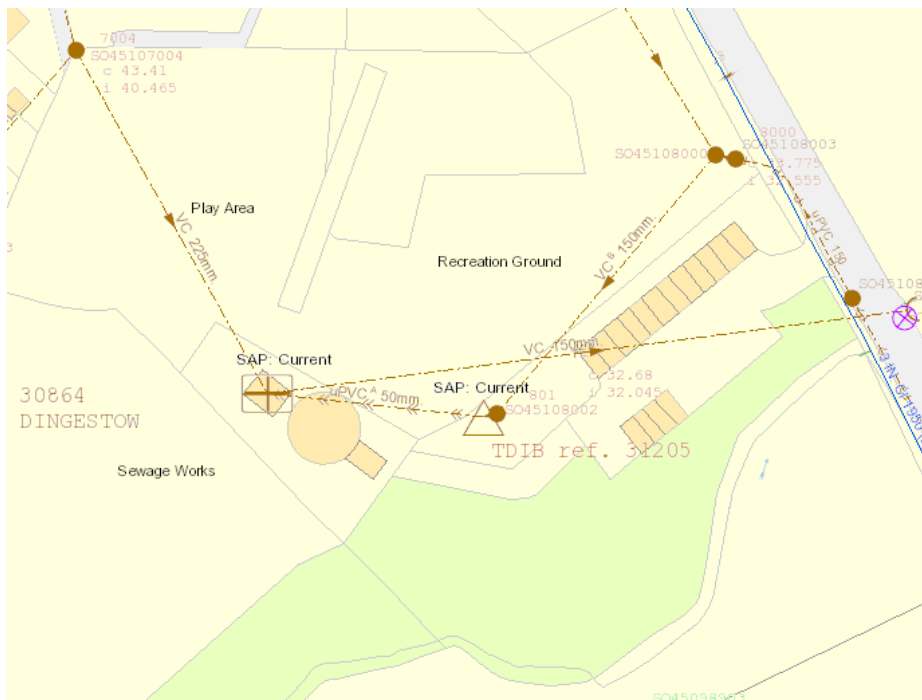
Kate Howard

NRW Senior Signature

Appendix

A1.

Photo of current assets on site and surrounding space remaining. And GIS and Areal image of WwTW, of DCWW's existing landholding. Demonstrating there is no further room to expand without further land purchase, considering boarder of mature trees surrounding the existing perimeter.



A2. Raw sample data

Date	BOD ATU	Ammoniacal Nitrogen	Suspended solids	Ortho phosphate	Total Phosphorus
22/Mar/23 10:26	28	5.7	118	2.5	4.16
27/Apr/23 10:30	9	5.09	19	6.51	6.85
19/May/23 10:41	16	8.2	29	8.32	8.54
21/Jul/23 08:39	8	9.4	25	8.54	8.07
25/Jul/23 09:53	11	9.03	18	7.74	8.04
03/Aug/23 11:41	8	9.31	16	9.16	8.88
13/Sep/23 09:10		15.3	530	4.52	8.59
14/Sep/23 07:30	13	17	56	8.72	9.19
03/Oct/23 10:08	19	8.55	21	6.64	7.13
26/Oct/23 10:30	8	9.33	35	4	4.56
01/Nov/23 10:00	9	5.88	19	2.16	2.68
07/Nov/23 08:45	16	11.4	18	4.26	4.96