

## 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.*

<b>WwTW Name</b>	DINGESTOW STW
<b>Permit Number</b>	AS1000701
<b>Catchment</b>	Upper Wye
<b>Water Body</b>	
<b>Can the site meet the total Phosphorus backstop limits now</b>	No
<b>Explanation</b>	<ul style="list-style-type: none"> <li>No phosphorus removal processes installed on site currently.</li> <li>Current long-term mean average performance 6.8 mg/l Ave. (Peak in excess of 9 mg/l)</li> </ul>
<b>Can the site meet the total Phosphorus in 12 months</b>	No
<b>Explanation</b>	<ul style="list-style-type: none"> <li>Current on-site assets cannot be optimised further.</li> <li>The current works' assets would not allow for adequate dosing or short term solution to be implemented</li> <li>Design and installation of additional assets required.</li> <li>Currently inadequate footprint on site to host the required additional assets.</li> </ul>
<b>Primary Extension Category</b>	Land Purchase Risk
<b>Secondary Extension Category</b>	Large reconfiguration of site required
<b>Headline category of solution</b>	Scheme solution at optioneering stage
<b>Details of proposed solution</b>	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.
<b>Land purchase required</b>	Yes anticipated, but to be confirmed at detailed design
<b>Planning required</b>	Yes anticipated, but to be confirmed at detailed design
<b>Protected Area surveys &amp; Ecology approvals</b>	Yes
<b>NBS Candidate</b>	No
<b>Partnership / Multi sector scheme candidate</b>	No
<b>Extension Requested</b>	36 months
<b>Date requested on extended permit Improvement Condition</b>	28 <sup>th</sup> January 2028

Date submitted to NRW

5/7/2024

DCWW senior Signature

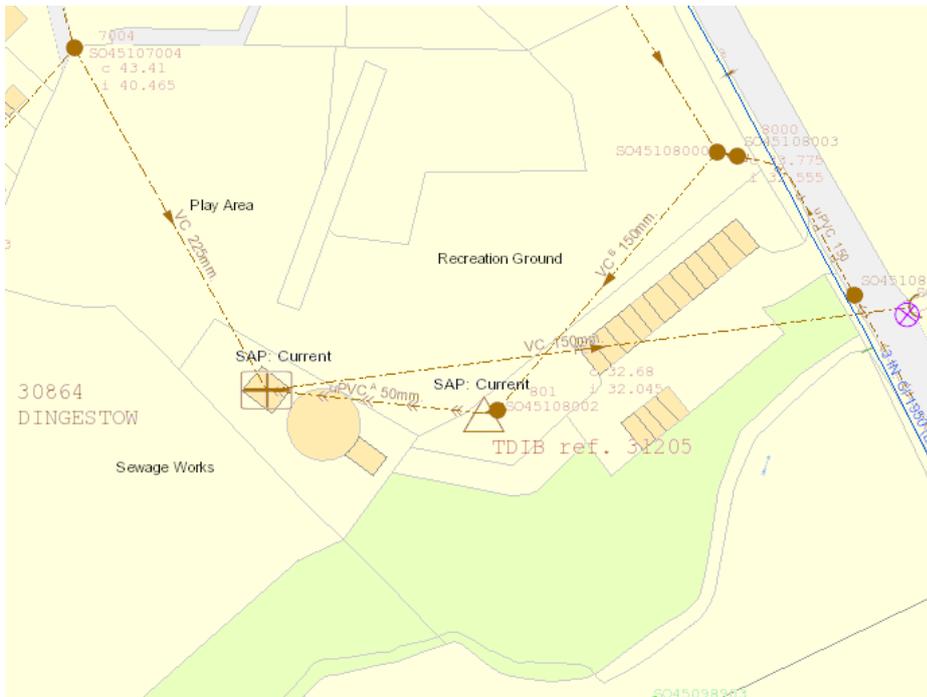
Kate Howard

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