

Business case summaries

AMP8 – 2025 to 2030

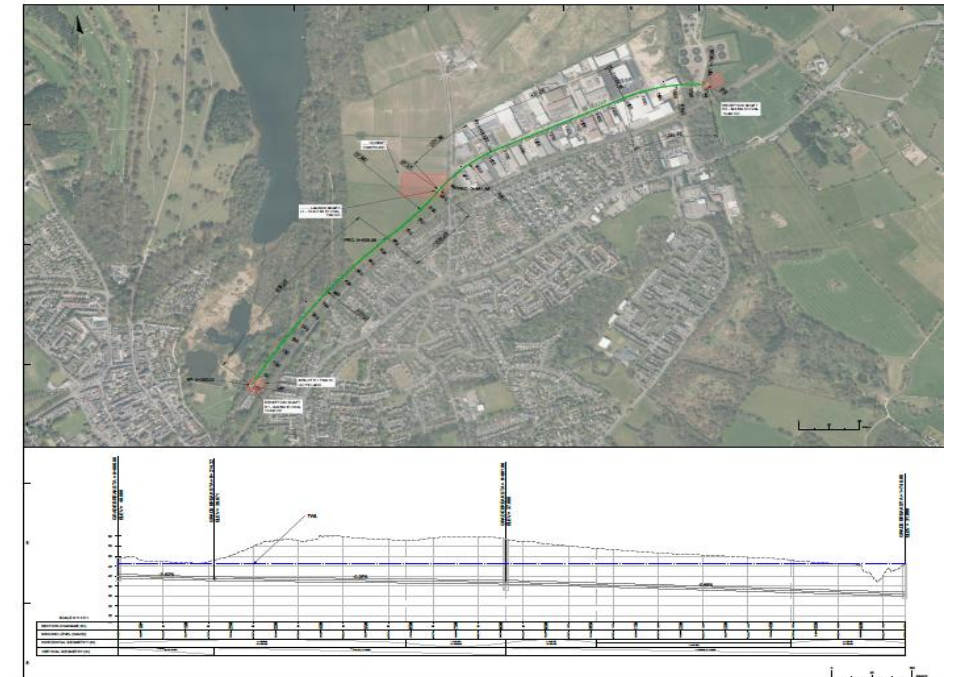
Castlerigg, near Keswick

U.80065252 Moor Pumping Station MAC0144 - WFD - AMP

Project Delivery Gate	Delivery Route	Achieves Reg / PCD Date	Delivering What We Said?	Solution type as agreed within the WINEP	No Ofwat Representation	Carbon Performance Commitment	Alignment with EIP	Original Model Data	Evidence of Best Value	Solution Approved	Standard Solution	No Additional Land	Commissioning Agreed
3	DDB	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓	✓

Key Financial info	£k
CBP	£XXX
Total Capex LBE	£XXX
CBP vs. Capex LBE Variance	£XXX
Total Sanction Request	£XXX
Ongoing recurring Opex LBE	£XXX
Funding Status	
Regulatory Status	

- **Environmental Context:** Moor PS CSO discharges into Moor Pool (Ramsar & SSSI), currently in unfavourable condition due to water quality.
- **Regulatory Requirement:** WINEP requires 7,000m³ storage pipeline to Knutsford WwTW, sediment management, and enhanced monitoring to achieve WFD “good” status.
- **Collaboration:** Project developed with Natural England, catchment partners, and EA; alternative solutions explored but discounted by EA.
- **Studies & Findings:** Confirmed need for both spill reduction and sediment removal to achieve long-term water quality improvements.
- **Next Steps:** Agreement in principle reached with landowner; progressing to PAC2 and full sanction release to deliver works by Dec 2026 WINEP deadline.



Lamaleach CSO FYL0002SO – BW IMP

Project Delivery Gate	Delivery Route	Achieves Reg / PCD Date	Delivering What We Said?	Solution type as agreed within the WINEP	No Ofwat Representation	Operational Carbon Performance Commitment	Capital Carbon Performance Commitment	Alignment with EIP	Original Model Data	Evidence of Best Value	Solution Approved	Standard Solution	No Additional Land	Commissioning Agreed
2	DDB	✗	✓	✓	✗	✗	N/A	✓	✓	✓	✓	✓	✗	✓

Key Financial info	£k
CBP	XXX
Total Capex LBE	XXX
Variance	XXX
Total Sanction Request	XXX
Ongoing recurring Opex LBE	XXX
Funding Status	
Regulatory Status	
Company Business Plan Date	19/03/2029
Regulatory Commitment Date	31/03/2026

- Project is seeking full approval to award DD&B contract to XXX to continue with Detail Design/ Procurement & delivery for an SOS June 2026.
- The project solution is to increase the Pass forward Flow delivering an equivalent storage 2,340m³ (PCD 7,605m³). This mitigates the constructability issues of building in the BAE Warton aerodrome flight path.
- The alternative solution was a below ground tank but due to poor ground conditions ~£XXXm
- Bathing Water project: Stage 2 Appeal for the Reg date of March 2026. Note: to claim the PIU on Lamaleach, Warton and near Ship Inn need to be operational. Catchment solution.



Image 1 & 2: Existing Pumps to be upsized.

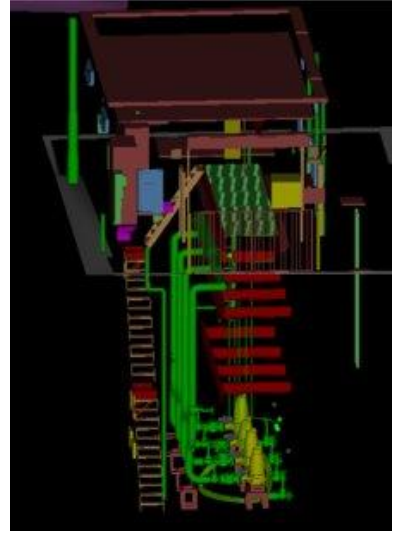


Image 3: 3D scan of the existing PS.

Lytham PS FYL0003SO – BW IMP

Project Delivery Gate	Delivery Route	Achieves Reg / PCD Date	Delivering What We Said?	Solution type as agreed within the WINEP	No Ofwat Representation	Operational Carbon Performance Commitment	Capital Carbon Performance Commitment	Alignment with EIP	Original Model Data	Evidence of Best Value	Solution Approved	Standard Solution	No Additional Land	Commissioning Agreed
2	DDB	✗	✓	✓	✗	✗	N/A	✓	✓	✓	✓	✓	✗	✓

Key Financial info	£k
CBP	XXX
Total Capex LBE	XXX
Variance	XXX
Total Sanction Request	XXX
Ongoing recurring Opex LBE	XXX
Funding Status	
Regulatory Status	
Company Business Plan Date	19/03/2029
Regulatory Commitment Date	31/03/2026

- Project is seeking full approval to award DD&B contract to to continue with Detail Design/ Procurement whilst progressing planning approval.
- The solution consists of 3 No. above ground storage tanks totalling 13,814m³ (PCD 15,015m³).
- The alternative solution is 3No. Below ground tanks the forecast is ~£XXm due to the excavated volume and poor ground conditions.
- The project is forecasting XXX - Bathing Water project: Stage 2 Appeal for the Reg date of March 2026.



Image 1 & 2: Visualisations showing site before and after.

Business case summaries

AMP7 – 2020 to 2025

The Need for the project:

Regulatory Requirements:

- CHR0021 (Harrisons Farm CSO) has been identified as a significant spiller (43times, 137 hrs, 27,597m3 per annum) and affects the quality of the RiverDouglas.
- This project will improve the River Douglas water quality to “Good” and reduce Intermittent Discharges to achieve 99 percentile of the Fundamental Intermittent Standards, by 31st March 2020.
- The Water Framework Directive project at Harrisons Farm relates to the ‘contribution to rivers improved’ performance commitment and delivers an associated 1.2km of river length benefit.

Key Risks and Benefits:

Threats:

- Inability to reuse the existing 300mm sewer section under the Liverpool Leeds Canal.
- Hydraulic design around reuse of the existing CSO.
- Working adjacent to river and in an area with historic coal mining, coal seems and demolished Adlington STW.
- Unwanted customer contacts; particularly due to the access route.
- Achieving Plant In Use by the 31st March 2020 Reg date.

Opportunities:

- No need to replace/ reline sections of the existing 300mm sewer for the trade effluent
- Existing CSO power supply can be extended to the detention tank.
- Improvement of River Douglas water quality to “Good” and reduction of Intermittent Discharges, achieving 99 percentile of the Fundamental Intermittent Standards, by 31st March 2020 .

The Need for the project:

UWWTD Quality driver identified in WINEP3 for CHR0012

“To achieve ‘Good Status’ in Syd Brook by 31/12/23 addressing the River Water Quality improvement drivers (WFD 1g, 3g and 9g) improving 1.20Km of the water course as detailed in the Wastewater Book of Obligations (EA reference 6UU0522)”

The design horizon for this project is 2036

Key Risks and Benefits:

- **XXX:**XX
XXXXXXX
- **XXXXXXX.**XX
XX. The project is a trial in collaboration with the EA and the media and reed beds will provide the treatment to enhance river water quality at the outfall.
- **Programme** - Changes to the phasing of delivery have had to be implemented to achieve the regulatory output. This involved changing the sequence of the reed bed build to achieve the desired treatment for the regulatory deliverables. This requirement is directly related to the commitments at Grape Lane and Town Road in Croston (now achieved) with these two unconsented spill points to river being closed.

Opportunities

- **SCADA / Telemetry:** Reduction in signals required and potentially equipment – minor opportunity

The Need for the project:

- CON0012 King Street CSO (Gasworks Yard PS, Middlewich) is part of the AMP7 Tranche 1 portfolio, South East batch 6 consisting of five sites in the Wastewater West area. This portfolio was awarded to C2V+ under the AMP7 CDP Design & Build Framework Agreement.
- As part of the Environment Agency's Water Framework Directive (WFD) we are required to improve the water quality in the River Croco to a 'Good' status in AMP7 from its confluence with Sanderson's Brook to its confluence with the River Dane for Ammonia, Dissolved Oxygen to WFD biological standards and wet weather standards. This shall be achieved by demonstrating compliance with the WFD 99%ile and Fundamental Intermittent Standards (FIS) wet weather intermittent standards.
- To achieve this there is a need to upgrade the current pumping station and to provide a storage tank for excess storm flows and reduce the number of times these flows enter the River Croco. Along with the storage tank which will contain 6mm 2 dimensions (2D) aesthetic screening there will be new ancillary kit, pipework and access improvements.
- The regulatory date for this project is 7th December 2022 (following a WINEP Alteration Form for third party covid delays; original reg date was 31st December 2021).

Key Risks and Benefits:

- There is a risk that the cost of the project could further increase when a Type 2 estimate is received.
- There is a risk that there is a delay with the Power Supply Upgrade due to the works being undertaken.
- There is a risk that the commissioning process will take longer than expected due to the nature and constraints of the site (due to the flows and the work required to be undertaken on a live Pumping Station).
- There is a risk that telemetry configuration will take longer than expected due to the volume of signals to be configured and commissioned.
- Due to the location of the works the customer interface will need to be managed carefully. To date we have held virtual and public exhibitions and an archaeological site visit for locals. Throughout the scheme a customer cabin will be located on site.

Images

