

UUW85

Water Resources - Commentaries

October 2023

Data Table Commentaries

This document provides a commentary and supporting information for the Water Resources PR24 data tables

Executive Summary

The key message delivered through the RES1 table is that United Utilities Water (*UUW*) plans no significant changes to source types, nor the volumes of water abstracted from existing sources. This reflects our commitment to efficient operation, whereby the maintenance and operation of existing sources represents better value / lower cost for customers than the development of new sources.

A small change in the number of sources is indicated from 2021/22 to 2022/23 and from 2028/29 to 2029/30. This reflects the impact of the successful development of the Thirlmere to west Cumbria transfer project. Customers in communities on the Cumbrian coast were previously supplied from local surface and groundwater sources, in a discreet water supply zone that was disconnected from the wider North West. From 2022/23 these customers are now receiving water from our existing large strategic reservoir at Thirlmere, effectively making those communities part of the wider Strategic Integrated Supply Zone. The changes in source number reflect the surrender of abstraction licences in 2022/23 for the previously used West Cumbrian surface and groundwater sources, and the demolition and re-naturalisation of reservoirs in 2028/29. The West Cumbria Transfer, and the associated abstraction licence changes and infrastructure removal are all part of the Water Industry National Environment Programme (WINEP).

The *UUW* Water WINEP commitments are explored in more detail in lines RES1.31 - 41 where the current view of relevant WINEP projects is provided.

Elsewhere in the table, some small changes to values are shown between 2022/23 and 2023/24. This reflects the change from actual measured values (for weather dependent variables) to forecast values based on a 3 year rolling average. The difference between the actual measured values and those forecasted is not materially significant, and does not represent a change in operational practice. Pumping head for water abstraction (line RES1.23 is the prime example of actual to forecast values).

Finally, *UUW* is committed to delivering water efficiency targets and Per Capita Consumption (PCC) reductions, as set out in our Water Resources Management Plan 2024 (WRMP24) and in-line with the Water Industry Strategic Environmental Requirements (WISER) guidance. This is reflected in the declining forecast of water resources capacity measured as yield delivered (line RES1.29).

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1. Water resources asset data

1.1 Whole table

Data quality confidence grade

- 1.1.1 We have graded this table data as A1. The exception to this is line RES1.24 which we have assessed as A3, lines RES1.20 to Res1.22, RES1.25 to 28 which we have assessed as B3, and RES1.23 which we have assessed as C4.

1.2 Water resources

RES1.1 Water from impounding reservoirs

- 1.2.1 2022/23 figure from APR, Table 5a Line 5A.1. 2022/23 figure is: 1,165.52 MI/D.
- 1.2.2 There will be a natural fluctuation in this figure over time, dependent upon patterns of source usage, (due to source and Water Treatment Works (WTW) outages) and patterns of demand, however this figure is broadly indicative of likely future abstraction from *UUW* reservoirs, other than where major changes in source utilisation are planned.
- 1.2.3 One major project will have a significant impact on reservoir utilisation. As part of the West Cumbria / Thirlmere transfer scheme (inc. Williamsgate WTW) from 2023/24 onwards *UUW* will cease abstraction at West Cumbrian lake sources (Crummock Water, Ennerdale Water, Dash Beck, River Ellen), which equates to 31.12 MI/D average daily abstraction. This demand will instead be met by additional abstraction from Thirlmere Reservoir.
- 1.2.4 Similarly, as part of the West Cumbria / Thirlmere transfer scheme from 2023/24 onwards *UUW* will cease abstraction at the South Egremont Boreholes (Gulley Flats BH, Kell Head BH, Black Ling BH and Merry Hill BH), which equates to 2.06 MI/D average daily abstraction. This demand will instead be met by additional abstraction from Thirlmere Reservoir.
- 1.2.5 Future volumes of water from impounding reservoirs has therefore been calculated as $1,165.52 + 31.12 + 2.06 = 1,198.70$ MI/D from 2023/24 onwards.

RES1.2 Water from pumped storage reservoirs

- 1.2.6 *UUW* does not operate any pumped storage reservoirs, and there are currently no plans to construct pumped storage reservoirs in future. The current and future volume is therefore zero.

RES1.3 Water from river abstractions

- 1.2.7 2022/23 figure from APR, Table 5a Line 5A.3. 2022/23 figure is 690.68 MI/D.
- 1.2.8 There will be a natural fluctuation in this figure over time, dependent upon patterns of source usage, (due to source and WTW outages) and patterns of demand, however this figure is broadly indicative of likely future abstraction from *UUW* stream, lake and river sources, other than where major changes in source utilisation are planned.
- 1.2.9 One major project will have a significant impact on water from rivers utilisation. As part of the West Cumbria / Thirlmere transfer scheme (inc. Williamsgate WTW) from 2023/24 onwards *UUW* will cease abstraction at West Cumbrian lake sources (Crummock Water, Ennerdale Water, Dash Beck, River Ellen) which equates to 31.12 MI/D average daily abstraction. This demand will instead be met by additional abstraction from Thirlmere Reservoir.
- 1.2.10 Future volumes of water from streams, lakes and rivers has therefore been calculated as $690.68 - 31.12 = 659.56$ MI/D from 2023/24 onwards.

RES1.4 Water from groundwater works, excluding managed aquifer recharge (MAR) water supply schemes

- 1.2.11 2022/23 figure from APR, Table 5a Line 5A.4. 2022/23 figure is 150.29 MI/D.

- 1.2.12 There will be a natural fluctuation in this figure over time, dependent upon patterns of source usage, (due to source and WTW outages) and patterns of demand, however this figure is broadly indicative of likely future abstraction from *UUW* groundwater borehole sources, other than where major changes in source utilisation are planned.
- 1.2.13 One major project will have a significant impact on groundwater utilisation. As part of the West Cumbria / Thirlmere transfer scheme (inc. Williamsgate WTW) from 2023/24 onwards *UUW* will cease abstraction at the South Egremont Boreholes (Gulley Flats BH, Kell Head BH, Black Ling BH and Merry Hill BH), which equates to 2.06 MI/D average daily abstraction. This demand will instead be met by additional abstraction from Thirlmere Reservoir.
- 1.2.14 Future volumes of water from groundwater borehole sources has therefore been calculated as $150.29 - 2.06 = 148.23$ MI/D from 2023/24 onwards.

RES1.5 Water from artificial recharge (AR) water supply schemes

- 1.2.15 *UUW* does not operate any “water from artificial recharge water supply schemes”, and there are currently no plans to construct AR schemes in future. The current and future volume is therefore zero.

RES1.6 Water from aquifer storage and recovery (ASR) water supply schemes

- 1.2.16 *UUW* does not currently operate any aquifer storage and recovery water supply schemes.
- 1.2.17 *UUW* has an AMP8 WINEP project to explore the feasibility of future aquifer storage and recovery schemes, including the development of a pilot plant.
- 1.2.18 The AMP8 WINEP measure specification forms have not been agreed with the EA at time of completing this table, and therefore the timing of, and flows from the pilot project cannot be forecast with precision. As a conservative approach, we have forecasted 1 x pilot ASR project providing 1 MI/D by 2030.

RES1.7 Water from saline abstractions

- 1.2.19 *UUW* does not operate any “water from saline abstractions”, and there are currently no plans to construct saline abstractions in future. The current and future volume is therefore zero.

RES1.8 Water from water reuse schemes

- 1.2.20 *UUW* does not operate any “water reuse schemes”, and there are currently no plans to construct water reuse schemes in future. The current and future volume is therefore zero.

RES1.9 Number of impounding reservoirs sources

- 1.2.21 2022/23 figure from APR, Table 5a Line 5A.9. 2022/23 figure is 53.
- 1.2.22 Please note, this is not the total number of reservoirs operated by *UUW*. It is the number of reservoirs which directly feed WTW (reservoir “sources”).
- 1.2.23 There will be a natural fluctuation in this figure over time, dependent upon patterns of source usage, (due to source and WTW outages) and patterns of demand, however this figure is broadly indicative of likely future sources, other than where major changes in source utilisation are planned.
- 1.2.24 One major project will have an impact. As part of the West Cumbria / Thirlmere transfer scheme (inc. Williamsgate WTW) from 2023/24 onwards *UUW* will cease abstraction at Overwater Reservoir. We have a WINEP commitment to revoke these two abstraction licences by September 2023. Current abstraction from Overwater will be met by increased abstraction from Thirlmere Reservoir. However, Thirlmere is already counted as a separate reservoir source. For the purposes of future forecasts of number of reservoir sources, we will use the 2022/23 figure of 53, minus 1.
- 1.2.25 Future numbers of reservoir sources has therefore been calculated as $53 - 1 = 52$ from 2023/24 onwards.

RES1.10 Number of pumped storage reservoirs sources

- 1.2.26 *UUW* does not operate any “pumped storage reservoirs”, and there are currently no plans to construct pumped storage reservoirs in future. The current and future volume is therefore zero.

RES1.11 Number of river abstractions sources

- 1.2.27 2022/23 figure from APR, Table 5a Line 5A.11. 2022/23 figure is 24.
- 1.2.28 Please note, this is not the total number of abstractions from streams, lakes and rivers operated by *UUW*. It is the number of streams, lakes and rivers which directly feed WTW (river “sources”).
- 1.2.29 There will be a natural fluctuation in this figure over time, dependent upon patterns of source usage, (due to source and WTW outages) and patterns of demand, however this figure is broadly indicative of likely future sources, other than where major changes in source utilisation are planned.
- 1.2.30 One major project will have an impact. As part of the West Cumbria / Thirlmere transfer scheme (inc. Williamsgate WTW) from 2023/24 onwards *UUW* will cease abstraction at the West Cumbrian lake and river sources at Ennerdale Water, Crummock Water, Dash Beck and the River Ellen. Current abstraction from these lakes will be met by increased abstraction from Thirlmere Reservoir. For the purposes of future forecasts of number of streams, lakes and rivers sources, we will use the 2022/23 figure of 24, minus 4.
- 1.2.31 Future numbers of river sources has therefore been calculated as $24 - 4 = 20$ from 2023/24 onwards.

RES1.12 Number of groundwater works excluding managed aquifer recharge (MAR) water supply schemes

- 1.2.32 2022/23 figure from APR, Table 5a Line 5A.12. 2022/23 figure is 69.
- 1.2.33 Please note, this is not the total number of abstractions from groundwater operated by *UUW*. It is the number of groundwater sources which directly feed WTW (groundwater “sources”).
- 1.2.34 There will be a natural fluctuation in this figure over time, dependent upon patterns of source usage, (due to source and WTW outages) and patterns of demand, however this figure is broadly indicative of likely future sources, other than where major changes in source utilisation are planned.
- 1.2.35 One major project will have a significant impact on reservoir utilisation. As part of the West Cumbria / Thirlmere transfer scheme (inc. Williamsgate WTW) from 2023/24 onwards *UUW* will cease abstraction at the South Egremont Boreholes (Gulley Flats BH, Kell Head BH, Black Ling BH and Merry Hill BH). Current abstraction from these boreholes will be met by increased abstraction from Thirlmere Reservoir. For the purposes of future forecasts of number of borehole / groundwater sources, we will use the 2022/23 figure of 69, minus 4.
- 1.2.36 Future numbers of groundwater sources has therefore been calculated as $69 - 4 = 65$ from 2023/24 onwards.

RES1.13 Number of artificial recharge (AR) water supply schemes

- 1.2.37 *UUW* does not operate any “artificial recharge water supply schemes”, and there are currently no plans to construct artificial recharge in future. The current and future volume is therefore zero.

RES1.14 Number of aquifer storage and recovery (ASR) water supply schemes

- 1.2.38 *UUW* does not currently operate any aquifer storage and recovery water supply schemes.
- 1.2.39 *UUW* has an AMP8 WINEP project to explore the feasibility of future aquifer storage and recovery schemes, including the development of a pilot plant.
- 1.2.40 The AMP8 WINEP measure specification forms have not been agreed with the EA at time of completing this table, and therefore the timing of, and flows from the pilot project cannot be forecast with precision. As a conservative approach, we have forecasted 1 x pilot ASR project providing 1 MI/D by 2030.

RES1.15 Number of saline abstraction schemes

- 1.2.41 *UUW* does not operate any “water from saline abstractions”, and there are currently no plans to construct saline abstractions in future. The current and future volume is therefore zero.

RES1.16 Number of reuse schemes

- 1.2.42 *UUW* does not operate any “water reuse schemes”, and there are currently no plans to construct water reuse schemes in future. The current and future volume is therefore zero.

RES1.17 Total number of sources

- 1.2.43 This is an auto-populated line.

RES1.18 Total number of water reservoirs

- 1.2.44 2022/23 figure from APR, Table 5a Line 5A.18. 2022/23 figure is 162.
- 1.2.45 This is the total number of open reservoirs, operated by *UUW* Water Treatment dept. It includes all reservoirs registered under the Reservoir Act 1975, and small reservoirs holding a volume between 10 and 25 Ml which fall under the requirements of Part 2 of the Flood and Water Management Act 2010. This line should also include pumped storage reservoirs, but *UUW* does not operate any pumped storage reservoirs, so this figure is just our raw water impounding reservoir fleet.
- 1.2.46 This figure excludes treated water service reservoirs.
- 1.2.47 It should be noted that there are 3 natural lakes in West Cumbria, (Ennerdale Water, Crummock Water and Overwater) which are categorised as lake sources under RES1.3 and RES1.11, as the water in these sources is natural lake water (these lines are categorising source water by complexity of treatment).
- 1.2.48 However, in the case of these 3 lakes, *UUW* has artificially made these lakes deeper, by installing a weir across the stream that naturally drains the lake. The weirs were installed (in the Victorian era) to facilitate abstraction. Although the weirs are comparatively small (around 1m high) the large surface area of the lakes means that large volumes of water are impounded behind the weirs. These 3 lakes are therefore registered as reservoirs under the Reservoir Act 1975, and count towards the total number of water reservoirs.
- 1.2.49 *UUW* has an AMP8 WINEP project to remove the weirs and re-naturalise 2 of these lakes (Crummock Water and Overwater), with Ennerdale weir to be removed in AMP9 under a WINEP requirement. There is also a requirement under an AMP8 WINEP project to demolish Chapel House reservoir and re-naturalise it.
- 1.2.50 The AMP8 WINEP measure specification forms have not been agreed with the EA at time of completing this table, and therefore the timing of these projects cannot be forecast with precision. As a conservative approach, we have forecasted that the projects will complete in 2030, at which point our number of water reservoirs will decrease by 3 (Crummock, Overwater and Chapel House).
- 1.2.51 Future numbers of water reservoirs has therefore been calculated as $162 - 3 = 159$ from 2029/30 onwards.

RES1.19 Total volumetric capacity of water reservoirs

- 1.2.52 2022/23 figure from APR, Table 5a Line 5A.19. 2022/23 figure is 286,320 Ml.
- 1.2.53 This is the total volumetric capacity of open reservoirs, operated by *UUW* Water Treatment dept. It includes all reservoirs registered under the Reservoir Act 1975, and small reservoirs holding a volume between 10 and 25 Ml which fall under the requirements of Part 2 of the Flood and Water Management Act 2010.
- 1.2.54 This figure excludes treated water service reservoirs.
- 1.2.55 *UUW* has an AMP8 WINEP project to remove the weir and re-naturalise 2 of West Cumbrian lakes (Crummock Water and Overwater) which are registered under the Reservoir Act 1975, and whose *impounded* (artificially deepened) volume counts towards this figure.
- 1.2.56 *UUW* also has an AMP8 WINEP project to demolish the dam and re-naturalise the site of Chapel House reservoir in West Cumbria.
- 1.2.57 The AMP8 WINEP measure specification forms have not been agreed with the EA at time of completing this table, and therefore the timing of these projects cannot be forecast with precision. As a

conservative approach, we have forecasted that the projects will complete in 2030, at which point the volumetric capacity of water reservoirs will decrease by 4,041 MI (the volumetric capacity of Crummock Water 3,400 MI, Overwater 542 MI and Chapel House Impounding Reservoir (IR) 99 MI).

- 1.2.58 Total volumetric capacity of water reservoirs has therefore been calculated as 286,320 – 4,041 = 282,279 from 2029/30 onwards.

RES1.20 and RES1.21 Total number and capacity of intake and source pumping stations

- 1.2.59 No change is expected for either the number or capacity of intake and source pumping stations and there are no strategic programmes currently planned to take place before the end of 2029/30 to install or upsize any intake and source pumping stations. Therefore, the latest 2022/23 number has been projected forward to 2029/30.

- 1.2.60 As part of the current plan for the 'North West source and transfer', there is a proposal to refurbish three existing boreholes and install an additional pump at an existing borehole site. However, these changes are not due until the beginning of 2030/31, so they have been excluded from these forecasts.

RES1.22 Total length of raw water abstraction mains and other conveyors

- 1.2.61 No change is expected for the total length of raw water abstraction mains and other conveyors and there are no strategic programmes currently planned to take place before the end of 2029/30 to lay any new raw water abstraction mains and other conveyors. Therefore the latest 2022/23 number has been projected forward to 2029/30.

RES1.23 Average Pumping Head (raw water abstraction)

- 1.2.62 Average pumping head varies year to year due to the impacts of weather and operational requirements. Since the beginning of AMP7, there have been varied weather patterns including prolonged dry spells, very wet periods and a severe freeze thaw event. Therefore, it is reasonable to assume that an average of the last three years for average pumping head (2020/21, 2021/22 and 2022/23) is representative of 'typical' operating conditions and can be used to project forward to 2029/30. Additional focus on data coverage and quality for Average Pumping Head may lead to a change in the reported value as estimated data is validated.

RES1.24 Energy consumption - water resources (MWh)

- 1.2.63 Energy consumption includes electricity used to directly pump water from sources, to treatment works or distribution systems. This makes up all of the energy consumption used in the water resources price control. There is no allocation of natural gas, stationary fuel or transport fuel to the water resources price control, as these are all allocated to water treatment. This is in-line with regulatory reporting allocation.

Actual energy consumption is included for 2022/23, with forecast consumption thereafter. Consumption is forecast to reduce over the AMP in parallel with enhancements in place to reduce water demand.

RES1.25 Total number of raw water abstraction imports

- 1.2.64 *UUW* does not have any raw water abstraction imports.

RES1.26 Water imported from 3rd parties to raw water abstraction systems

- 1.2.65 *UUW* does not have any water imported from third parties to raw water abstraction systems.

RES1.27 Total number of raw water abstraction exports

- 1.2.66 *UUW* currently has 1 raw water export, to Hafryn Dyfrdwy Water, from our Heronbridge abstraction point at Chester on the River Dee.

RES1.28 Water exported to 3rd parties from raw water abstraction systems

- 1.2.67 The volumes exported to Hafryn Dyfrdwy are based on recent actual exports for 2022/23. Future forecasted abstraction and export are taken from the United Utilities WRMP24.

RES1.29 Water resources capacity (measured using water resources yield)

1.2.68 This was calculated in-line with the transition of methodology from WRMP19 to WRMP24 of both base model, but also inflows from historic to stochastics. The level of service for the PR24 figures align with WRMP24 of 1 in 20, however will transition following 2030 to 1 in 40 level of service which impacts the Water resource capacity. The WRMP24 over the planning horizon finishes with a 1 in 500 level of service.

RES1.30 Total number of impounding reservoirs assets

1.2.69 The number of reservoirs, of all categories, have been used = 172 up to 2028/29 & 169 (2029/30) (as per below categories):

- Raw water abstraction (WR) = 159 (up to 2028/29); 156 (2029/30) due to removal of Crummock, Overwater and Chapel House reservoirs;
- Raw water storage (WN+) = 3;
- Treated water distribution (WN+) = 6;
- Water Treatment (WN+) = 1; and
- Balancing reservoirs (WN+) = 3.

RES1.31 – Total number of new eels/fish entrainment screens

1.2.70 Numbers derived from AMP7 WINEP and National Environment Programme (NEP) and AMP8 Draft WINEP Issued 02/05/2023 and NEP submission National Resources Wales (NRW) 31/03/2023 in consultation with the relevant project scopes and information. AMP8 numbers could be subject to change as the WINEP and NEP are not currently finalised.

1.2.71 Schemes are:

- AMP7 – Windermere (2023/24); Huntington (2024/25); Caton (2024/25); and Halton (2024/25); and
- AMP8 – Horseshoe Falls (2029/30),

RES1.32 – Total number of new eels/fish passes

1.2.72 Numbers derived from AMP7 WINEP and the NEP and AMP8 Draft WINEP Issued 02/05/2023 and NEP submission NRW 31/03/2023 in consultation with the relevant project scopes and information. AMP8 numbers could be subject to change as the WINEP and NEP are not currently finalised.

1.2.73 Schemes are: AMP8 – Taxal (2029/30); Calder (2029/30); and Hug Bridge (2029/30).

RES1.33 Total number of new wetlands

1.2.74 There are currently no wetland treatment sites, nor any plans to install any in AMP8.

RES1.34 Total area of new wetlands

1.2.75 As there are no wetland treatment sites the area is reported as zero.

RES1.35 – Total number of investigations; (WINEP/NEP) desk based only

1.2.76 Numbers derived from AMP7 WINEP and NEP and AMP8 Draft WINEP Issued 02/05/2023 and NEP submission NRW 31/03/2023 in consultation with the relevant project scopes and information. AMP8 numbers could be subject to change as the WINEP and NEP are not currently finalised.

1.2.77 No schemes are currently identified for this line.

RES1.36 – Total number of investigations; (WINEP/NEP) survey, monitoring or simple modelling

1.2.78 Numbers derived from AMP7 WINEP and NEP and AMP8 Draft WINEP Issued 02/05/2023 and NEP submission NRW 31/03/2023 in consultation with the relevant project scopes and information. AMP8 numbers could be subject to change as the WINEP and NEP are not currently finalised.

1.2.79 Schemes are: AMP8 – Cliburn nitrates (2027/28); Fairhill nitrates (2027/28); Widnes Boreholes (Stockswell) nitrates and bacteria (2027/28); and Wirral Boreholes nitrates (2027/28).

RES1.37 – Total number of investigations; (WINEP/NEP) multiple surveys, and/or monitoring locations, and/or complex modelling water

1.2.80 Numbers derived from AMP7 WINEP and NEP and AMP8 Draft WINEP Issued 02/05/2023 and NEP submission NRW 31/03/2023 in consultation with the relevant project scopes and information. AMP8 numbers could be subject to change as the WINEP and NEP are not currently finalised.

Schemes included within this line are detailed in Table 1 below.

Table 1: RES1.37 Scheme names and regulatory delivery date

Action name	Reg Date
Franklaw colour	30/04/2027
Ashworth Moor taste and odour	30/04/2027
Haslingden Grane taste and odour	30/04/2027
Laneshaw taste and odour	30/04/2027
Mitchells taste and odour	30/04/2027
Piethorne taste and odour	30/04/2027
Ridgegate taste and odour	30/04/2027
Rivington taste and odour	30/04/2027
Grizedale Brook holistic study on instream habitat improvements	31/12/2026
Lune-Wyre transfer investigation	31/12/2026
Tarnbrook Wyre sediment management plan development	31/12/2026
Wyre habitat/sediment improvements investigation	31/12/2026
Cowpe geosmin	30/04/2027
Fishmoor colour	30/04/2027
Hurleston geosmin and ammonia	30/04/2027
Lamaload geosmin	30/04/2027
Lancaster colour	30/04/2027
Laneshaw colour	30/04/2027
Ridgaling colour	30/04/2027
Rivington colour	30/04/2027
Worsthorne colour	30/04/2027
Fylde aquifer recharge investigation - stage 2	30/04/2027
Raw water transfer mitigation trials	30/04/2027
Phase 2: INNS Raw water transfer investigation and options appraisal	30/04/2027
Wirral and West Cheshire aquifer	31/12/2026
Furness aquifer	31/12/2026
Fylde aquifer	31/12/2026
Manchester and Cheshire East Permo-Triassic Sandstone Aquifer	31/12/2026
Mersey Basin Lower and Merseyside North Permo-Triassic Sandstone Aquifer	31/12/2026
Manchester and Cheshire East Carboniferous Aquifer	31/12/2026
Wheelock (Source to Kidsgrove Stream) investigation	31/12/2026
Millingford (Newton) Brook investigation	31/12/2026
Downholland (Lydiate/Cheshire Lines) Brook investigation	31/12/2026
Longdendale (Etherow -Woodhead Res. to Glossop Bk.) investigation	31/12/2026
Trawden Springs	31/12/2026
Aughertree/Longlands	31/12/2026

Action name	Reg Date
River Dane (Clough Brook to Cow Brook)/Dane (Cow Brook to Wheelock)/Dane (Wheelock to Weaver) investigation	31/12/2026
Langden/Hareden investigation	31/12/2026
Levers Water	30/04/2027
Langden Brook and Hareden System	30/04/2027
Dean Clough	30/04/2027
Whitendale and Brennand System	30/04/2027
Thirlmere Reservoir	30/04/2027
Pickup Bank	30/04/2027
Gravel starvation downstream of Stocks Reservoir	31/12/2026
Company contribution to Regional Plan environmental destination	31/12/2026
Mouldsworth boreholes	31/12/2026
Manley Common boreholes	31/12/2026
Manley Quarry boreholes	31/12/2026
Skerton Weir	30/04/2027
Assessment and mitigation of gravel starvation downstream of Vyrnwy Reservoir	31/03/2026
Pennington	31/12/2026

RES1.38 Total number of investigations (WINEP/NEP)

1.2.81 This is an auto-calculated line.

Appendix A Compliance with reporting requirements

A.1 General

- A.1.1 *UUW* has endeavoured to fully comply with all of the reporting requirements. In a small number of instances where this is not the case, we have fully explained this within the table commentaries with appropriate justification.

A.2 Ofwat query response ID-533

- A.2.1 *UUW*, in response to query ID-533, has not trimmed our data to match Ofwat's defined number of decimal place requirements. For display purposes data will, however, always conform to the formatting rules as set within the Ofwat PR24 tables. We believe this to be fully aligned to the table requirements.

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