

Appendix 5.3.B.2 - Confirmation of DWI support PR19 WSX Shapwick and Sturminster Marshall

Wessex Water

September 2018

| Business plan section | Supporting document |
|-----------------------|---|
| | Board vision and executive summary |
| 1 | Engaging customers |
| 2 | Addressing affordability and vulnerability |
| 3 | Delivering outcomes for customers |
| 4 | Securing long term resilience |
| 5 | 5.1 Protecting and enhancing the environment |
| | 5.2 Using water efficiently |
| | 5.3 Providing excellent drinking water quality |
| | 5.4 Minimising sewer flooding |
| | 5.5 Bioresources |
| | 5.6 Maintaining our services |
| | 5.7 Accommodating growth and new development |
| | 5.8 Water resources bid assessment framework |
| | 5.9 Water resources RCV allocation |
| | 5.10 Bioresources RCV allocation |
| 6 | Markets & innovation: open systems & DPC |
| 7 | Markets & innovation: retail |
| 8 | Securing cost efficiency |
| 9 | Aligning risk and return |
| 10 | Financeability |
| 11 | Accounting for past delivery |
| 12 | Securing trust, confidence and assurance |
| 13 | Data tables and supporting commentaries |



guardians of drinking water quality

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30 May 2018

Mr Matt Wheeldon
Director of Assets and Compliance
Wessex Water
Operations Centre
Claverton Down
Bath
BA2 7WW

Dear Mr Wheeldon

PERIODIC REVIEW 2019: Wessex Water
DWI Scheme reference: WSX 2– Shapwick/Sturminster Marshall - Nitrate

FINAL DECISION LETTER

The Inspectorate has completed its detailed assessment of the scheme proposed by Wessex Water to provide blending facilities to secure or facilitate compliance with the nitrate standard for drinking water quality reasons at Shapwick and Sturminster Marshall Treatment Works.

The detailed assessment also took in to consideration the outcome of the risk assessment reports submitted to the Inspectorate as required by regulation 28(1) of the Water Supply (Water Quality) Regulations 2016 for Sturminster Marshall/Shapwick Water Treatment Works connected supply system.

A summary of the outcome of our assessment of this scheme is attached. Based on the information submitted by the Company, the Inspectorate supports the need for a scheme to reduce nitrate concentrations in treated water for water quality reasons, and the supported scheme shall be included by the Company in its Final Business Plan, subject to the caveats listed in the attachment.

In this instance the Inspectorate intends to issue a Notice under Regulation 28(4) of the Water Supply (Water Quality) Regulations 2016, as amended, that requires the Company to mitigate the risk of nitrate that has been identified as a potential danger to human health from the water supplied from Sturminster Marshall/Shapwick Water Treatment Works.

It is expected that the Company will continue to monitor treated water nitrate concentrations, and that it will take all reasonable steps to prevent contraventions of the nitrate standard.

I am copying this letter to:

- Jon Ashley and Kevin Ridout at Ofwat;
- Elinor Smith and John Collins at the Environment Agency;
- David Heath (CCW Chair, Western)
- Dan Rogerson (Chair of Wessex Water Partnership)

Please contact Sue Pennison (Sue.Pennison@defra.gsi.gov.uk) with any queries relating to this letter.

Yours sincerely

A handwritten signature in blue ink that reads "Milo Purcell".

Milo Purcell
Deputy Chief Inspector

PERIODIC REVIEW 2019

SUMMARY OF DWI ASSESSMENT – LETTER OF SUPPORT

| Comment | |
|--|---|
| <u>Water company:</u> | Wessex Water |
| <u>DWI scheme reference(s):</u> | WSX 2 |
| <u>Scheme name:</u> | Shapwick / Sturminster Marshal- Nitrate |
| <u>Proposal:</u> | Provision of blending facilities for water at Sturminster Marshall to secure or facilitate compliance with the nitrate standard for drinking water quality reasons. |
| <u>Supporting evidence:</u> | Risk assessment report for Sturminster Marshall/ Shapwick Treatment Works dated 29 Nov 2017, submitted on 29 November 2017. Wessex Water PR19: Catchment intervention to control nitrates- Dec 2017 Annex 1 and Annex 2 – Nitrate Schemes 28 December 2017 from Wessex |
| <u>Conclusion:</u> | Subject to the caveats listed below, the Inspectorate supports the need for the following scheme: To construct upgraded blending facilities at Sturminster Marshall. The anticipated works required for blending are: <ul style="list-style-type: none"> • Washout improvements at Shapwick to enable each borehole to be washed out independently • A static mixer to enable the Shapwick/Sturminster flows to be blended in a controlled manner with the inflow from Black Lane • A pump on the outlet of Sturminster Marshall contact tank to enable the two sources to be blended through the static mixed. • Increased nitrate monitoring and control facilities. |
| <u>Timescale:</u> | Completion date: 2025 |
| <u>Estimated cost:</u> | Estimated capital costs: £2M capital Estimated net additional operating costs: n/a |
| <u>Legal Instrument Required:</u> | Notice under Regulation 28 (4) |
| <u>Caveats:</u> | None |
| <u>Comment:</u> | DWI has no role in determining proportional allocation of expenditure. Where DWI technical support is given, this should not be taken by the company to imply that the scheme will be partially or wholly funded as a Quality item. Schemes that require a legal instrument are considered necessary to meet statutory drinking water quality requirements. These schemes will be |

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| | transposed to formal programmes of work by DWI as soon as possible and their implementation and completion will be monitored, audited and closure confirmed by DWI. |
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