

Our Reference: 5202641

Your Reference: APP/22/00681

Tel: +44 (0)1454 662000
Fax: +44 (0)1454 663333

Gary Christie
Principal Planning Officer
Planning Services
Havant Borough Council
Public Service Plaza
Civic Centre Road
Havant
Hampshire PO9 2AX

atkinsglobal.com
[snclavalin.com](https://www.snclavalin.com)

13 October 2022

Dear Mr Christie,

APP/22/00681: Application for approval of all Reserved Matters relating to Phase 1 (northern access route from Manor Lodge Road (B2149)) of the Havant Thicket Reservoir Project (Hybrid permission APP/20/00990) and approval of condition Nos: 2, 13, 20, 27, 28, 32, 36, 37, 38 and 39 also in relation to the northern access route at Havant Thicket, adjacent to Sir George Staunton Country Park, Middle Park Way, Havant

Responses to key issues arising from the consultation comments

Key issues have been drawn from the consultation comments received in response to the application (APP/22/00681), which relate to a range of themes including highway safety, traffic management, access concerns, biodiversity impacts, and landscape and ecological management.

A schedule of the key issues and Atkins' responses made on behalf of the applicant, Portsmouth Water, is attached for your consideration.

Responses to comments received from the LLFA

I refer to consultation comments received from the Hampshire County Council Lead Local Flood Authority (LLFA) on 30th August 2022, in response to the above application.

The LLFA's comments are replicated in the table below, with responses provided by Atkins' Drainage team.

Table 1 – LLFA comments and Atkins' responses

LLFA comment	Atkins' response
Please confirm where the three sub-catchments discharge to. Flow rate calculations have been provided for three sub-catchments. This shows that overall, the flow rates have been noticeably reduced. However, sub-catchment Phase 1 (chainage 1210-1407) to existing watercourse has an increase in flow rates. It is not clear where each of the sub-catchment drains to and therefore it is hard to determine whether these three sub-catchments drain to the same eventual location or whether they drain to different locations. If they drain to different locations then the increase in the one sub-catchment, will be increasing flood risk. If all three sub-catchments drain to one location, then there should be a net reduction in runoff. Please confirm, ideally via a single plan, where each sub-catchment discharges to.	Catchment plans are provided for clarity within new appendices within an updated version of the Drainage Management Plan.
Please clarify the discrepancy between the existing flow rates shown in section 3.6 of the drainage	The greenfield runoff rates (specifically QBAR) have been calculated for the

management plan and the greenfield runoff rates provided in the micro drainage calculations. The drainage management plan shows 1 in 1 runoff rates of each of the sub-catchments of 53.8 l/s, 58.7l/s and 3.7 l/s3 respectively. Meanwhile, the micro drainage greenfield calculations for the entire route have a 1 in 1 year discharge rate of 0.6 l/s. Please explain the differences.

new impermeable areas only and have been added to the existing rates calculated using the hydraulic models. The catchment plans will provide clarity on this.

The micro drainage results have not modelled the 1 in 100 plus 40% scenario. The 1 in 100-year micro drainage calculations (page 83 of the Drainage Management Plan) has not included the require 40% climate change allowance needed for stress testing the proposed system. Please update these results to include an allowance for climate change.

The hydraulic models have been run with 40% allowance for climate change and the results have been included in the updated Drainage Management Plan appendices.

In addition, we have undertaken a value engineering exercise to replace the combined kerb drainage and piped system at the southern end of the northern access road with a ditch. This provides an improvement in terms of maintenance and allows the two outfalls in this location to be combined into a single one, which allows flow rates to be controlled more easily. The drawings and flow rates have been updated to reflect this improvement.

Performance concerns at HW10. The Northern Drainage Access layout (3 of 3) at Headwall HW10 shows that the ditch to the west and east are draining towards each other and then having to turn at a 90-degree angle and flow through the adjacent culvert. We are concerned that this combination will behave as a hydraulic stop with very little flow being able to discharge through the culvert and floodwaters and silt building up in this location. Please confirm how this will be addressed to prevent a flood risk/maintenance liability.

The ditch and culvert arrangement proposed in this location is a formalisation of the existing arrangement. There are existing poorly formed ditches which presumably have been filled in over time. I would expect runoff from the north at present just flows over the existing track and to the ditches to the south. Our proposal improves this situation by providing formalised ditches and a culvert. If the proposed system floods, then runoff would continue to do what it does at present by flowing over the track and to the ditches to the south. Forestry England will retain responsibility for maintenance of this track, and the associated ditches and culvert.

Please confirm who will be undertaking maintenance of the drainage proposed. The Drainage Management Plan states that the Environment Agency maintains Main River and the Lead Local Flood Authority maintains ordinary watercourses. This is incorrect. These are the enforcing bodies not the body responsible for maintenance. Please confirm who will be maintaining the ditches and other proposed drainage features? Is the drainage being adopted by Highways or will it be maintained by the landowner or another party? Please provide the general maintenance requirement for each difference type of drainage feature in accordance with our surface water checklist:
<https://documents.hants.gov.uk/flood/watermanagement/SurfaceWaterChecklistGuidance.pdf>

We agree that the wording in this section is not quite right in the context of our report, although I note it was taken directly from the gov.uk website containing the statutory guidance to the Environment Agency. This wording has been removed from the updated version of the strategy document.

There have been ongoing conversations regarding maintenance responsibilities with landowners, however we are now in a position to confirm the details. This is included within the updated version of the Drainage Management Plan, along with the maintenance requirements.

Revised details

The above responses are supported by the following revised details submitted for your consideration and approval:

- Revised Drainage Management Plan - HTR-ATK-XX-ZZ-RP-Z-0004 RevC04
- Revised Northern Access Drainage Layout (Sheet 3 of 3) - HTR-ATK-AR-ZZ-SK-D-0020 RevC03
- Revised Phase 1 Northern Access General Arrangement (Sheet 3 of 4) - HTR-ATK-AR-RE-DR-D-0019 RevC03
- Revised Landscape Plan Northern Access (Sheet 4 of 4) - HTR-ATK-ZZ-ZZ-DR-L-0030 RevC05
- Revised Northern Access Tree Works Plan (Sheet 3 of 3) - HTR-ATK-RZ-RE-DR-L-1144 RevC05
- Revised Tree Protection Plan (Sheet 3 of 3) - HTR-ATK-RZ-RE-DR-L-1147 RevC05

If you require further information, or have any queries regarding the application, please do not hesitate to contact me on 01454 663202, 07803 260129 or laura.cowie@atkinsglobal.com.

Yours sincerely,
For and on behalf of Atkins Ltd.



Laura Cowie BSc (Hons) MRTPI
Associate Planning Consultant