

## Note / Memo

Haskoning UK Ltd.  
Industry & Buildings

To: Future Water MMJV Ltd  
 From: Andrew Hepworth  
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**Subject: Havant Thicket Reservoir: Cut Off Wall Works - January 2026  
 Lighting - Technical Note**

### Havant Thicket Reservoir: Cut Off Wall Works at the Reservoir Culvert Structure

#### 1. Introduction

As part of the construction works for the Havant Thicket Reservoir, an impermeable barrier must be created below the main embankment in order to retain water in the reservoir. This barrier is known as a 'cut off wall'.

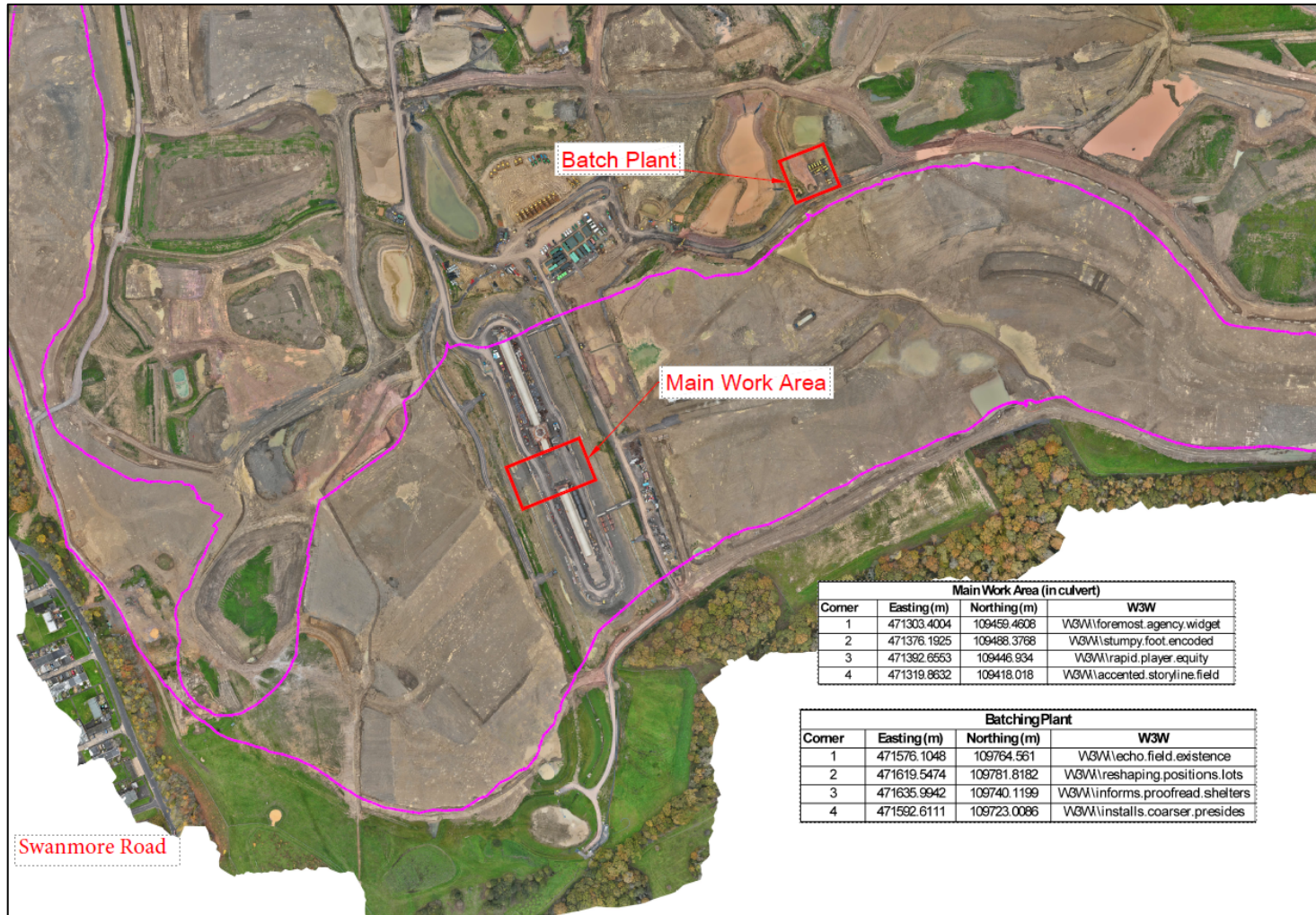
Whilst the majority of the cut off wall can be delivered within permitted working hours, the area where the cut off wall must pass under the reservoir culvert structure is more complex.

Figure 1 shows the location of the proposed works. At this location, there is a critical interface between the construction of the cut off wall and the reinforced concrete reservoir culvert, which necessitates continuous working to prevent the cement-based slurry within the cut off wall from curing before a steel sheet can be embedded. This will ensure the structural integrity and impermeability of the interface between the cut off wall and the reservoir culvert.

The cut off wall works require continuous working for approximately 90 hours commencing in January 2026. The anticipated programme of work is provided below.

|            |                                  |                                         |
|------------|----------------------------------|-----------------------------------------|
| 12/01/2026 | <b>07:30</b>                     | <b>Works commence</b>                   |
|            | 07:30 – 23:59                    | Excavation and cement-based slurry fill |
| 13/01/2026 | 00:00 – 23:59                    | Excavation and cement-based slurry fill |
| 14/01/2026 | 00:00 – 12:00                    | Excavation and cement-based slurry fill |
|            | 12:00 – 22:00                    | Embedded sheet installation             |
|            | <b>(No later than)<br/>22:00</b> | <b>Works conclude</b>                   |

Figure 1 – Site location of reservoir culvert structure (main works) and on-site batching plant



## **2. Cut Off Wall Works – Lighting**

### *a. Review of planned construction activities*

The construction plant required for the cut off wall works at the reservoir culvert structure is relatively small scale, comprising 1no. long reach excavator, 1no. dump truck and 1no. 4x4 pickup truck. 4no. mobile lighting towers will be required which will direct light into the works area only where required. The works areas are also at least 500m from the closest residential receptors on Swanmore Road located to the west, and Winterslow Drive located to the south.

The slurry will be pumped from the on-site batching plant to the excavation via overground pipework. The equipment at the on-site batching plant will comprise 1no. grout mixing plant and 1no. generator in a silenced enclosure. 2no. mobile lighting towers will also be required at the on-site batching plant. The on-site batching plant will be located further to the west of residential receptors on Swanmore Road and further north of properties Winterslow Drive, as shown in Figure 1.

### *b. Management Measures*

The Principal Contractor, Future Water, will review the type and placement of appropriate task site lighting to avoid potential impacts on local residents and ecology. Mitigation measures will include the following:

- Mobile lighting towers will use multi-directional adjustable and tiltable floodlights which will only direct light into the works area where required;
- Direct illumination of residential receptors and woodland to the south of the main reservoir worksite will be avoided.

### *c. Assessment*

An ecologist has been consulted on potential impacts of the cut off wall works. No significant impacts are anticipated on ecology for the following reasons:

- The works are temporary in duration;
- Both the cut off wall work area and on-site batching plant are devoid of any sensitive ecological areas, and the nearest such areas are sufficiently distant for any disturbance to not be significant - the most sensitive receptors (bats and dormice) will be in woodland to the south of the main reservoir worksite, well away from any works areas, and will remain unaffected;
- Hibernating species are unlikely to be affected by the works, as the works are temporary; and
- No birds will be nesting in January.

The closest residential receptors to the cut off wall works are located to the west on Swanmore Road, and Winterslow Drive located to the south.

Properties on Swanmore Road will be partially screened by hedgerows and trees which follow the boundary of the main reservoir site and Swanmore Road. As the cut off wall works and on-site

batching plant are located well within the main reservoir worksite, no adverse effects from temporary lighting are anticipated.

Properties on Winterslow Drive located to the south of the main reservoir site are also screened by hedgerows and trees which follow the boundary of the main reservoir site and Winterslow Drive. As the cut off wall works and on-site batching plant are located well within the main reservoir worksite, no adverse effects from temporary lighting are anticipated.