



Update on tunnelling in Hillingdon

August 2023 | www.hs2.org.uk

High Speed Two (HS2) is the new high speed railway for Britain.

You can sign up for regular updates in your local area at hs2inhilligdon.co.uk.

Our Community Engagement team is available to answer your questions about the project and the works in Hillingdon and Northolt. Our team would like to invite you:

- **To visit the HS2 & SCSJV Information Hub**

Our Community Information Hub is open for drop-ins every **Monday and Wednesday from 2pm to 4pm**.

You can find us in the portacabin on the right of West Ruislip Portal Entrance on Ickenham Road.

- **You can book a virtual one to one appointment at**
Communities@scsrailways.co.uk

Tunnels construction update

The tunnels route alignment broadly follows the London Underground Central Line and the Chiltern Mainline. Since both tunnel boring machines (TBMs) were launched from the West Ruislip Portal site in Autumn 2022, activities supporting tunnelling works at the Portal are ongoing. This includes removal of excavated material, supply of materials and maintenance of tunnelling equipment.

TBM Sushila has now passed under West End Road and is approaching Bridgwater Rd. TBM Caroline is expected to have reached the same location approximately one month later (see map overleaf).

Our community engagement team have been contacting residents whose properties are along the line of route to let them know when to expect tunnelling near their properties. We're also checking in with residents after each TBM has gone past.

Due to noise transmission paths that occur naturally in the ground, it may be possible for properties approximately 100 metres away to hear the tunnel boring machines. This tends to be a very low-level rumble and will only last a few days as tunnelling progresses past properties.

If you have a question about HS2 or our works, please contact our HS2 Helpdesk team on 08081 434 434 or email hs2enquiries@hs2.org.uk

Duration of works

From late September 2022 to Summer 2024

24 hours, 7 days a week

What to expect

Properties near the tunnelling works may hear a faint, low rumbling noise as the tunnel boring machines passes

It is unlikely vibration from tunnelling will cause damage to properties

Surveying teams taking readings from monitoring equipment on streets near the tunnel route

What we will do

Keep you updated on progress and advise when to expect tunnelling in your area

Monitor ground movement, noise and vibration levels at all times

Be responsible should any damage occur relating to our works

Provide updates at
HS2inHillingdon.co.uk

Update on tunnelling in Hillingdon

Notification



www.hs2.org.uk

Herlwyn Avenue update

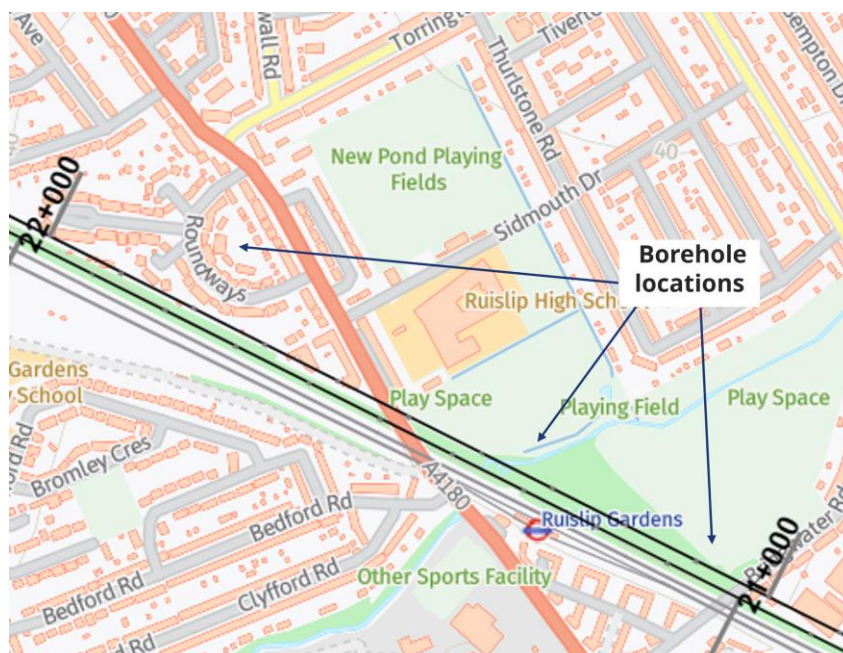
We have carried out extensive monitoring along the route and will continue to do so. Please be assured there has been negligible ground movement as a result of our tunnelling works.

The borehole located within the trench opposite Roxburn Avenue has been filled. Following on from routine maintenance on TBM Caroline at the end of July, we will reinstate the road surface and remove the barriers and traffic management from the area. We apologise for the inconvenience these works may have caused whilst we were working in Herlwyn Avenue.

Boreholes in nearby open spaces

As part of our continued investigative work, we are routinely checking the boreholes along the route. Some of the boreholes are in open spaces in the area and you may see our operatives carrying out checks on a daily basis.

Map detailing locations of boreholes in the area along our TBM route



Contact our HS2 Helpdesk team on **08081 434 434**

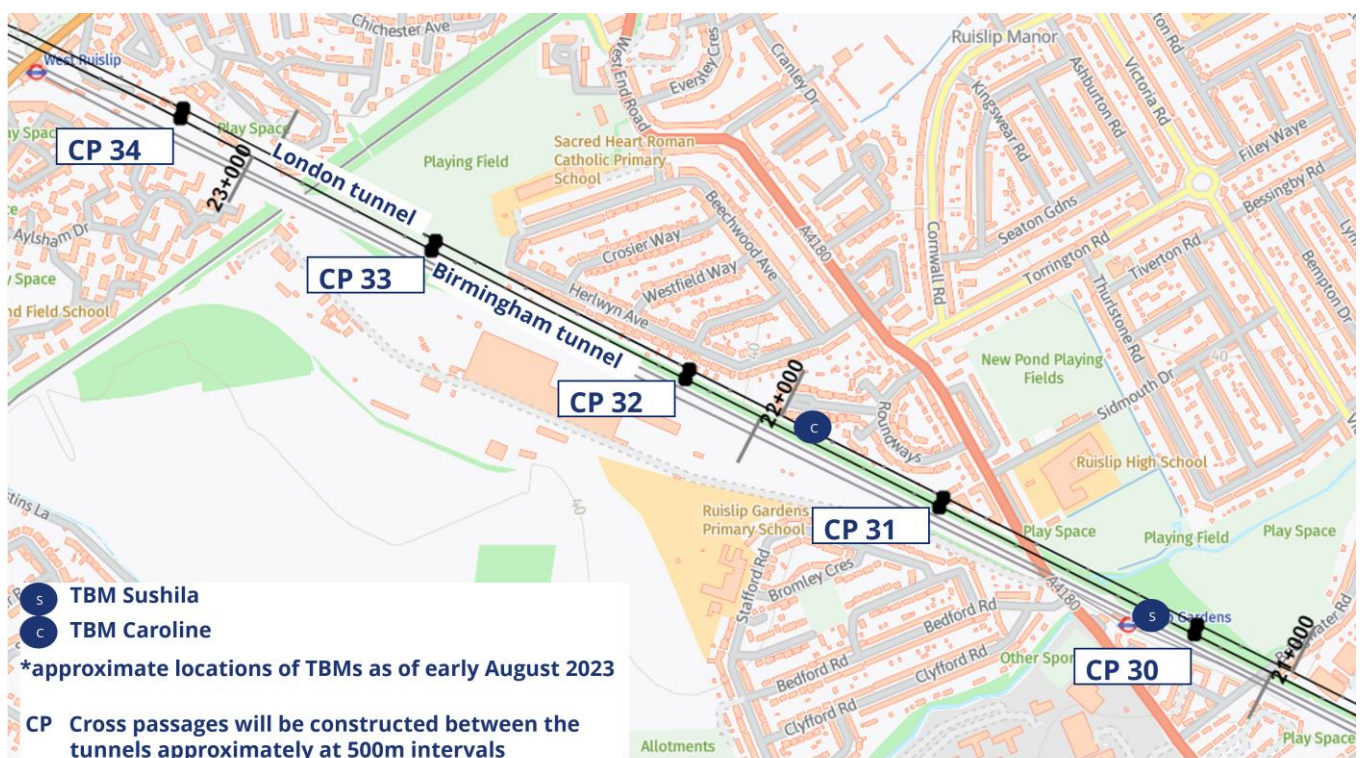
Cross passage construction

The next phase of our tunnelling works are the cross passages. Built approximately 500 metres apart along the route and whilst invisible to the travelling public, will have a key role in providing a safe operational railway. In an emergency, they allow the safe evacuation of trains.

Cross passage construction involves breaking into the side of one completed tunnel to connect it to the other completed tunnel. The ground is dug out in short lengths and a sprayed concrete lining is used to form the interconnecting tunnel. After each section is mined and lined, a temporary concrete face forms the end of the cross passage. This methodology is a proven, safe way to create cross passages between the tunnels. The temporary face needs to be removed and the above cycle is repeated until the cross passage is completed. This phase generates ground-borne noise which may be heard by properties over 100 metres away from the cross passage location. This depends on the ground conditions around the construction area, how the noise is transmitted through the ground and possibly a building's structure and foundation.

The first cross passage to be constructed is CP34 which is expected to start in mid-September. The above process should take approximately four weeks.

Where are the tunnels and cross passages in your area?



Update on tunnelling in Hillingdon

www.hs2.org.uk



How we are managing the impacts of tunnelling

TBMs are the best method for safely excavating tunnels of this type because they build the tunnel as they dig. This reduces the risk of settlement (the way ground moves around a hole after it has been dug) and minimises potential for any damage to nearby properties. The TBMs can operate 24 hours a day, 7 days a week until the construction of the tunnels is complete.

Continuous tunnelling by TBMs has been used successfully on major projects such as Crossrail, Thames Tideway and the Northern Line Extension. Extensive knowledge and data gathered from tunnelling in similar conditions enables us to accurately predict ground-borne noise and vibration levels. Our assessments did not predict significant ground-borne noise and vibration impacts. However, it may be possible to hear a low-level sound from the TBMs during quieter periods. It is unlikely vibration from tunnelling will cause damage to nearby buildings.

We will be closely monitoring tunnelling progress and will keep you updated on when it is likely that the TBMs will be passing nearby. The duration should be no more than a few days near any one property.

Monitoring taking place during tunnelling

We have installed specialist equipment in multiple locations along the tunnelling route to monitor ground movements before, during and after construction. The surveying team will be out and about in Hillingdon to take regular readings from the studs located in the pavements or to take readings from the equipment mounted on buildings. You may see members of the team assembling a tripod to mount monitoring equipment in order to take readings. This activity will be quiet, for a short duration and will not affect access to footpaths and driveways. We apologise in advance should this activity inconvenience or disturb you.

How are properties protected from the potential impact of our tunnelling works?

There are legal provisions under the HS2 Act to provide protection should any damage occur from HS2 tunnelling works or excavations.

If, during or following tunnelling, you believe that damage has occurred, you can contact us to let us know. As part of the assessment of a damage claim, a second comparison survey of a property may be undertaken. You can contact the HS2 Helpdesk on 08081 434 434 or email HS2enquiries@hs2.org.uk

Keeping you updated

We will provide updates on the TBMs' locations at <https://www.hs2.org.uk/in-your-area/map/>. As tunnelling progresses eastwards, the team will ensure people living at the locations shown on the map are kept up to date on approximate timings and location of the TBMs and when cross passages are being constructed.

Contact our HS2 Helpdesk team on **08081 434 434**

What else is happening in your area?

www.hs2.org.uk

Contact our HS2 Helpdesk team

Our team is here to listen and respond to your enquiry, complaint or feedback to help us be a good neighbour.

You can contact our Helpdesk team all day, every day of the year on:

Freephone: **08081 434 434**

Minicom: **08081 456 472**

Email: hs2enquiries@hs2.org.uk

Keep up-to-date with your local community website

To find out more about what's happening in your area and receive regular email updates, you can sign up to our local community websites at: www.hs2inyourarea.co.uk.

About our Community and Business Funds

We are offering two funds that are available to local communities and businesses between the West Midlands and London, to help with the disruption caused by our construction work. These are the Community and Environment Fund (CEF) and the Business and Local Economy Fund (BLEF).

The CEF is designed to give communities the opportunity to share in the benefits of HS2. It is an allocated fund that communities are able to apply for, to help to support local projects that aim to improve their local area.

The BLEF is designed to support local economies that may be disrupted by the construction of HS2. BLEF grants are for local business support organisations and local authorities to help maintain business activity in local communities.

For more information about each of these funds, including how to apply, please visit: <https://www.groundwork.org.uk/hs2funds>



Keeping you informed

We are committed to keeping you informed about work on HS2. This includes ensuring you know what to expect and when to expect it, as well as how we can help you.

The Residents' Commissioner

The independent Residents' Commissioner oversees and monitors our commitments to you.

The commissioner's reports and our responses can be found at www.gov.uk/government/collections/hs2-ltd-residents-commissioner

The Residents' Commissioner makes sure we fulfil the commitments in the HS2 Community Engagement Strategy (<https://bit.ly/3oOA25j>).

The Residents' Commissioner can be contacted on: residentscommissioner@hs2.org.uk

Construction Commissioner

The independent Construction Commissioner regularly meets our Chief Executive Officer to raise any concerns or emerging trends across HS2.

The Construction Commissioner's role has been developed to monitor the way we manage and respond to construction complaints.

The commissioner mediates on disputes about construction, involving individuals and organisations, that we can't resolve. The commissioner advises members of the public about how to make a complaint about construction.

The Construction Commissioner can be contacted on: complaints@hs2-cc.org.uk

Property and compensation

You can find out about HS2 and properties along the route by visiting:

www.gov.uk/government/collections/hs2-property

Find out if you can claim compensation at:

www.gov.uk/claim-compensation-if-affected-by-hs2

Holding us to account

If you are unhappy for any reason you can make a complaint by contacting the HS2 Helpdesk. For more details on our complaints process, please visit:

www.hs2.org.uk/in-your-area/contact-us/how-to-complain/

Reference number: HS2-EW-SCS-Ph1-Ar-So-S2-Tun-1-01/08/2023_04

Contact us

Contact our HS2 Helpdesk team all day, every day of the year on:

 Freephone **08081 434 434**

 Minicom **08081 456 472**

 Email **HS2enquiries@hs2.org.uk**

Write to:

FREEPOST

HS2 Community Engagement

Website **www.hs2.org.uk**

To keep up to date with what is happening in your local area, visit:
www.HS2inyourarea.co.uk

Please contact us if you'd like a free copy of this document in large print, Braille, audio or 'easy read' format. You can also contact us for help and information in a different language.

HS2 Ltd is committed to protecting personal information. If you wish to know more about how we use your personal information please see our Privacy Notice: <https://www.gov.uk/government/publications/high-speed-two-ltd-privacy-notice>

High Speed Two (HS2) Limited, registered in England and Wales.

Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6GA.

Company registration number: 06791686. VAT registration number: 888 8512 56