

# HS2

## River Chess Association Meeting

20 March 2018

7pm Chesham Town Hall

# Agenda

1. Introductions and purpose of the meeting
2. Summary of the route/construction through the Chilterns
3. Summary of ground investigation progress and plans for additional ground investigation
4. Proposed tunnelling methodology and controls
5. Shaft construction
6. Further discussion



# Introductions

David McCann, Senior Project Manager, HS2 Sector C1

Mike Hutchinson, Groundwater Manager, HS2 Phase One

Emma Gaydon, Stakeholder Engagement Manager, HS2 Sector C1

Steve Hobbs, Hydrogeology Lead, Align JV

Gareth Jones, Geotechnical Lead, Align JV

Didier Jacques, Tunnelling Lead, Align JV

David Eve, Stakeholder Engagement Manager, Align JV

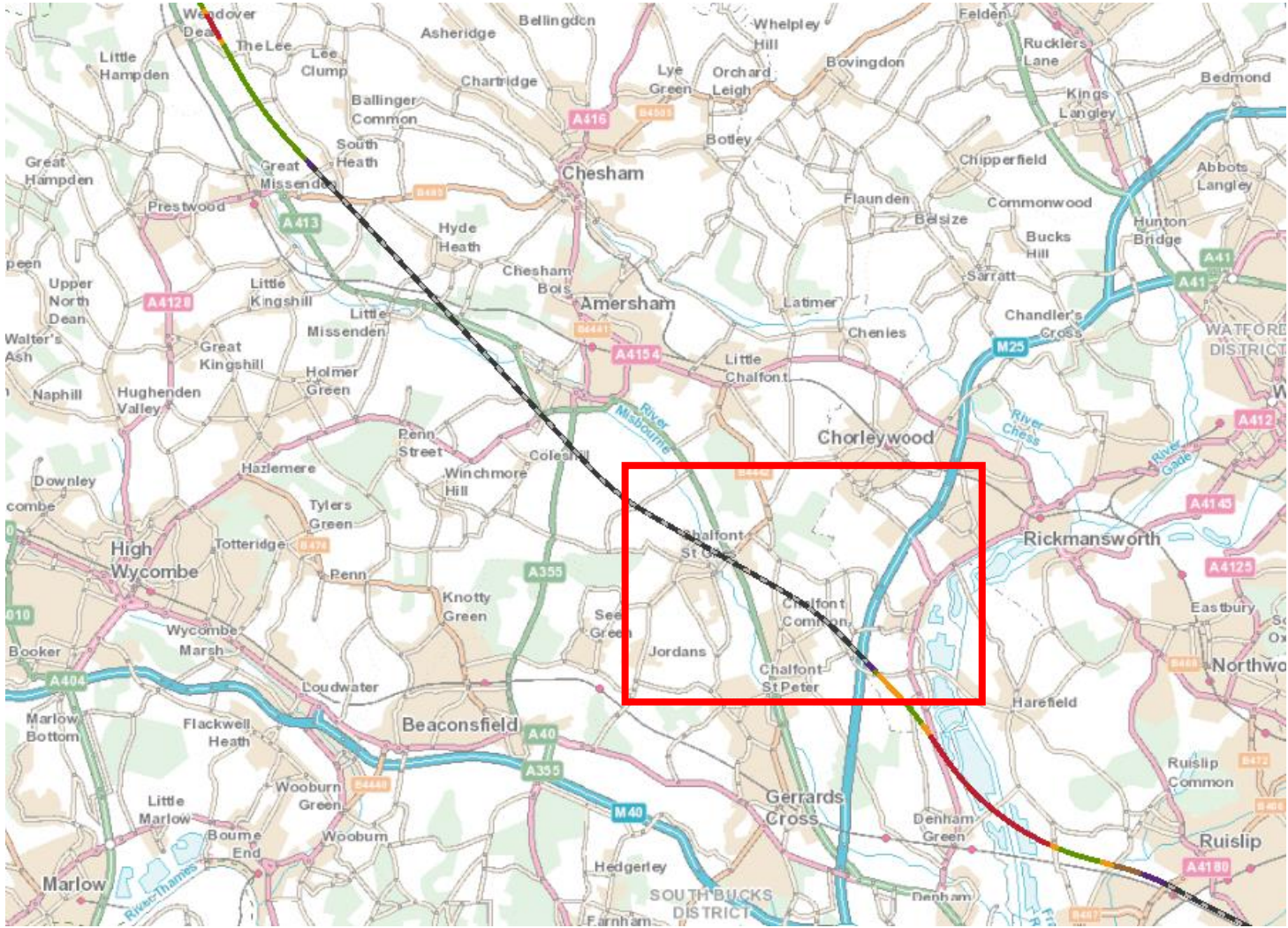
Matthew Wales, Permitting and Phase One Lead, Environment Agency

Alistair Brodie, Consenting Officer (Groundwater), Environment Agency

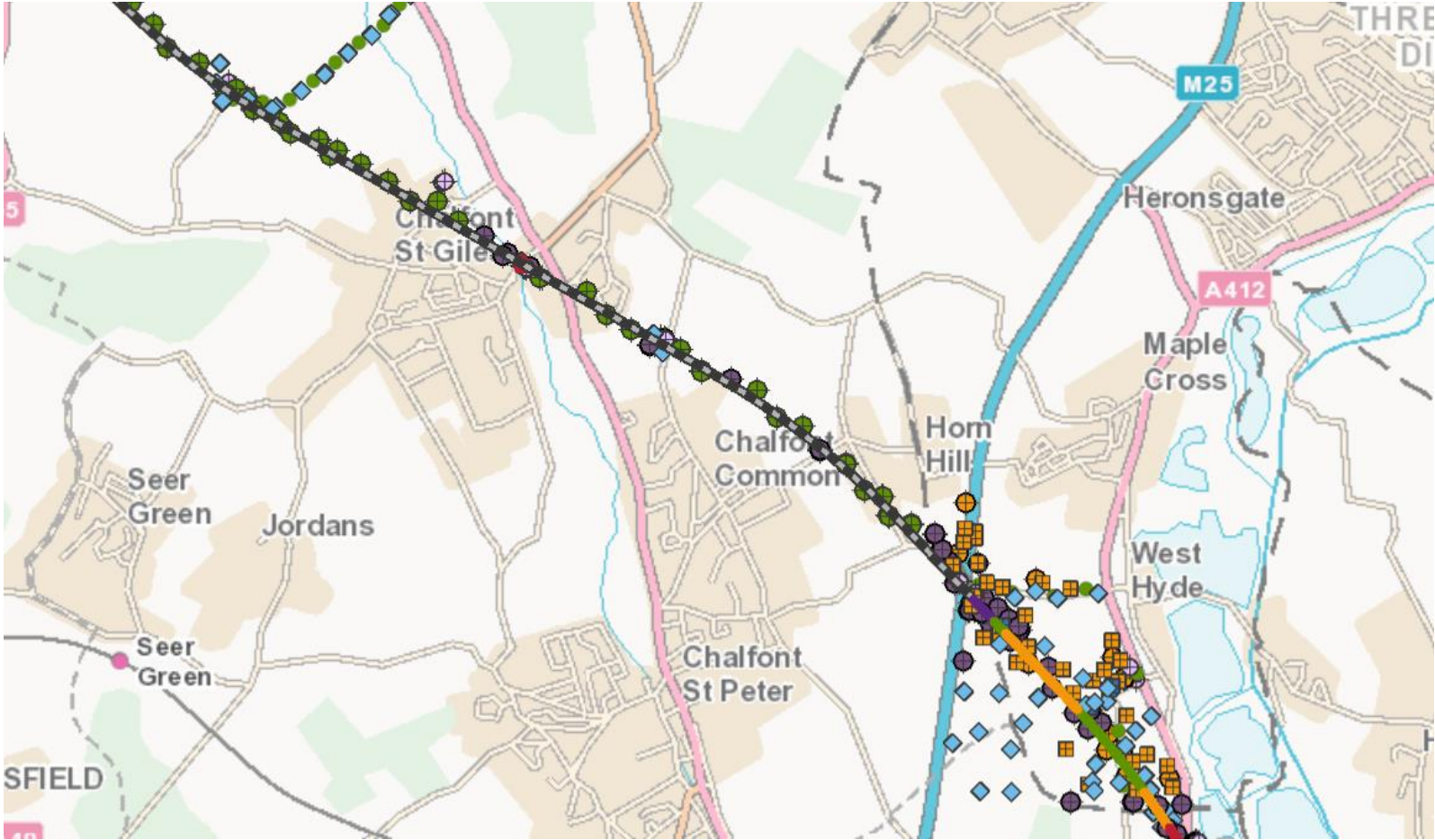
Rob Rees, Catchment Co-ordinator (Colne and upper Lee catchments), Environment Agency



# Chilterns tunnel alignment



# HS2 ground investigation





# Overview of hydrological risks relating to tunnelling and vent shaft construction

- Use of potentially contaminating materials at the surface and below ground
- Release of fine Chalk particles (turbidity) into the groundwater due to excavation
- Management of runoff and discharge of water
- Local modification of groundwater flow pathways
- Groundwater-dependent receptors: public water supply, rivers, lakes, private abstractions



# Management and mitigation

- Environmental Minimum Requirements – the controls contained in the EMRs will ensure that the impacts assessed in the Environmental Statement are not exceeded
- Continuity of surface and groundwater flows and quality must be maintained – protection of controlled waters (groundwater and surface water) is paramount and will be closely regulated by the Environment Agency
- Extensive investigation and monitoring has therefore been undertaken and is ongoing, in close liaison with the Environment Agency and Affinity Water
- Enhanced treatment capacity at Affinity Water pumping stations
- Construction methodologies chosen to minimise risks

