

Appendix 6B

Scoped Out Effects

Table 6B.1 Summary of effects scoped out of the historic environment assessment

Receptors/Potential Effects	Justification
West Corridor	
Thornton Aero Engine research laboratory Listed Building: 1392326 Locally listed buildings: DCH9505, DCH9541	Located ~40m from a proposed construction site access and ~250m from a material storage area location, designated for its historical interest. The interest of this asset derives from its historic research activity. Its setting contributes to this through association with the adjacent and related industrial complex. Neither the use of the existing adjacent road for construction traffic nor the proposed material storage area location beyond buildings to the south would introduce any change to the setting which would harm the significance of this asset. This asset is scoped out of further assessment.
Elton Conservation Area Listed Buildings: Rock Farmhouse (Grade II*) 1138369; and Grade II 1115418, 1320225, 1330218, 1320457, 1115394	Located ~500m from the nearest element of the Project, proposed construction site accesses and material storage area locations, and designated for their historic and architectural interests. The Conservation Area and associated heritage assets is located within the historic core of Elton and dislocated from the surrounding landscape by extensive 20th century residential development and a large glass manufacturing facility built in the early 21st century to the north. These intervening developments are likely to prevent any change within the setting of these assets from the Project. These assets are, therefore, scoped out of further assessment.
Hall Farm, Wood Farm and Holme Farm, north of Ince Listed Buildings: 1318873, 1330394, 1130342, 1318909, 1130343, 1329995	Located >800m from the proposed construction site access along the unadopted road leading to Ince Bio Power and CF Fertiliser plant and designated for their historic and architectural interests. The proposed construction site access utilises an existing road used extensively by HGVs. The route is separated from the assets by the village of Ince and intervening agricultural land. No change within the setting of the heritage assets is anticipated. These assets are scoped out of further assessment.

Receptors/Potential Effects	Justification
Roman fortlet at Ince Scheduled Monument: 1014723	Located >900m from the proposed construction site access along the unadopted road leading to Ince Bio Power and CF Fertiliser plant and designated for its historic and archaeological interests. The proposed construction site access utilises an existing road used extensively by HGVs. The route is separated from the asset by the village of Ince, intervening agricultural land and mature vegetation along field boundaries. No change within the setting of the heritage asset is anticipated. This asset is scoped out of further assessment.
Hapsford (see photograph in Appendix 6D, Image 1) Listed Buildings (Grade II): 1138371, 1138370, 1115133	Located >800m south-east of the Preliminary Order Limits, but ~20m from construction site access along the A5117, and designated for their historic and architectural interests. Screening along the M56 motorway and associated noise are likely to preclude any effects arising from the construction or operation of the pipeline. A proposed construction site access on the A5117 passes a minimum of 20m from one of the heritage assets, the Barn at Hapsford Hall (1115133). None of the assets are located on the A5117, being set back on Moor Lane. Moor Lane is separated from the A5117 by a wide verge, grassed areas, and some mature trees. This does not screen the A5117 from the assets. The A5117 is a moderately busy road outside of the village, with a 30mph speed limit. It is a bus route and is used by HGV and LGVs. Use of this road as a construction site access would be short-term and temporary, given the nature of the construction programme. It is not anticipated that the magnitude of change introduced by construction traffic would cause a significant effect to heritage assets.
Promontory fort on Helsby Hill 250m northwest of Harmers Lake Farm Scheduled Monument: 1013292	Located ~400m from the nearest element of the Project, but with long views incorporating approximately 5km of the pipeline under construction. Designated for its historical and archaeological interests.

Receptors/Potential Effects	Justification
	These interests are drawn from buried remains and earthworks along with an appreciation of the visually prominent location, suitable for displays of power and for defensive purposes. The construction of the Project would be visible in key views north. However, at the distances involved and, given the short-term temporary nature of the works (in this section installation of the pipeline is anticipated to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities), the magnitude of change would be negligible, and no significant effect would arise.
Hillfort on Woodhouse Hill 500m west of Mickledale Scheduled Monument: 1013297	Located ~1.5km from the nearest element of the Project, but with long views incorporating approximately 4.5km of the pipeline under construction. Designated for its historical and archaeological interests. These interests are drawn from buried remains and earthworks along with an appreciation of the visually prominent location, suitable for displays of power and for defensive purposes. The construction of the Project would be visible in key views north. However, at the distances involved and, given the short-term temporary nature of the works (in this section installation of the pipeline is anticipated to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities), the magnitude of change would be negligible, and no significant effect would arise.
War memorial, Frodsham Listed Building (Grade II): 1253363	Located ~900m from the nearest element of the Project, but with long views incorporating approximately 4.5km of the pipeline under construction. Designated for its historical and architectural interests. These interests are drawn from the structure of the memorial itself along with an appreciation of the visually prominent location.

Receptors/Potential Effects	Justification
	The construction of the Project would be visible in key views north. However, at the distances involved and, given the short-term temporary nature of the works (in this section installation of the pipeline is anticipated to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities), the magnitude of change would be negligible, and no significant effect would arise.
Horns Farmhouse Listed Building (Grade II): 1320419	Located >1.5km south-east of the Preliminary Order Limits, but ~20m from construction site access along the A5117, and designated for its historic and architectural interests. The A5117 is a moderately busy road, being a bus route and used by HGV and LGVs. Use of this road as a construction site access would be short-term and temporary, given the nature of the construction programme. It is not anticipated that the magnitude of change introduced by construction traffic would cause a significant effect to the heritage asset.
Alvanley House and Birch Cottage, Alvanley Listed Building (Grade II): 1253365 and 1138479, respectively	Located >400m east of the construction site access along the A5117 and >900m from the Preliminary Order Limits; designated for their historic and architectural interests. Intervening topography, dense and mature woodland, and housing prevent any perceptual change within the setting of these heritage assets from the use of the A5117. These assets are scoped out of further assessment.
Helsby village and railway (see photograph in Appendix 6D, Image 2) Listed Buildings (Grade II): 1261746, 1253460, 1412057, 1253459, 1253455, 1261759, 1261760, 1253456, 1253457, 1253458, 1437912, 1253454 Locally listed buildings: DCH10291, DCH10293, DCH10308, DCH10307, DCH10804, DCH10306,	Located >120m south-east of the Preliminary Order Limits (an access route) and designated for their historic and architectural interests. These interests derive value from their relationship with the development of the village of Helsby and its railway line. The position of these assets, clustered on the railway line and within the historic core of the village, and intervening landscape features, including the M56 motorway, mean that no perceptual change will be introduced to their setting from the Project that would affect their

Receptors/Potential Effects	Justification
DCH10310, DCH10296, DCH10295, DCH9760, DCH10297, DCH10298, DCH10300, DCH10301, DCH10299, DCH10302, DCH10304, DCH10303, DCH10305, DCH10310, DCH10309	significance. These receptors are, therefore, scoped out of further assessment. A construction traffic route passes through the village, along the A56, on which a number of the heritage assets are located. The road through Helsby is busy, with car parking either side, bus stops, and frequent passing traffic, including HGVs and LGVs. Use of this road as a construction site access would be short-term and temporary, given the nature of the construction programme. The magnitude of change introduced by construction traffic is considered to be negligible, with no significant effect to heritage assets likely to arise.
Godscroft Hall Farmhouse Listed Building (Grade II): 1261843	Located ~350m from the Preliminary Order Limits (an access route); designated for its historic and architectural interests. The farmhouse is separated from the Project by intervening agricultural land, a railway line and the M56 motorway. Any visibility of the development would be glimpsed and incidental through these features and associated mature trees. No perceptual change within the setting of the asset is anticipated from the pipeline or its construction. The proposed construction site access uses existing roads, Hadley Lane and Straight Length. Whilst these are not busy roads, the distance from the asset makes it unlikely that anything more than a negligible magnitude of change would be experienced within the setting of the farmhouse through change to one of its approaches. This would not give rise to a significant effect and no further assessment is proposed.
Frodsham village heritage assets (see photograph in Appendix 6D, Image 3) Conservation Areas: Frodsham Town and Castle Park	Located >100m south-east of the Preliminary Order Limits (an access route) and >240m from the pipeline corridor; and nationally designated or locally recorded their historic and architectural interests.
Listed Buildings (Grade II): 1253192, 1253194, 1253195, 1253254, 1253266, 1253309, 1253310, 1253311, 1253314, 1253316, 1253317, 1253318,	These interests derive value from their relationship with the development of the village of Frodsham. The position of these assets which, in the main, are clustered within the historic core of the village on the A56, and intervening landscape features,

Receptors/Potential Effects	Justification
1253319, 1253320, 1253321, 1253353, 1253354, 1253355, 1253356, 1253357, 1253358, 1253359, 1253360, 1253361, 1253575, 1261701, 1261823, 1261825, 1261827, 1261845, 1261846, 1261847, 1261848, 1270772 Locally listed buildings: DCH10144, DCH10145, DCH10146, DCH10147, DCH10148, DCH10149, DCH10150, DCH10151, DCH10152, DCH10153, DCH10154, DCH10155, DCH10156, DCH10157, DCH10158, DCH10159, DCH10160, DCH10161, DCH10162, DCH10163, DCH10164, DCH10165, DCH10166, DCH10167, DCH10168, DCH10169, DCH10170, DCH10171, DCH10172, DCH10173, DCH10174, DCH10175, DCH10176, DCH10177, DCH10178, DCH10179, DCH10180, DCH10181, DCH10182, DCH10183, DCH10184, DCH10185, DCH10186, DCH10187, DCH10188, DCH10189, DCH10190, DCH10191, DCH10192, DCH10193, DCH10194, DCH10195, DCH10196, DCH10203, DCH10204, DCH10205, DCH10206, DCH10207, DCH10236, DCH10799, DCH10800, DCH10803, DCH9758, DCH9804	including the M56 motorway and more recent buildings, mean that no perceptual change will be introduced to their setting from the Project that would affect their significance. Glimpsed views of the development during construction may be seen through gaps in buildings and across the M56 motorway. However, these views are not key to the significance of the Conservation Areas or to the Listed Buildings and no impact to significance is expected. These receptors are, therefore, scoped out of further assessment. A construction traffic route passes through the village, along the A56, on which the majority of the heritage assets are located. The road through Frodsham is busy, with car parking either side, bus stops, and frequent passing traffic, including HGVs and LGVs. Use of this road as a construction site access would be short-term and temporary, given the nature of the construction programme. The magnitude of change introduced by construction traffic is considered to be negligible, with no significant effect to heritage assets likely to arise.
Frodsham Castle Park (see photograph in Appendix 6D, Image 4) Registered Park and Garden (Grade II): 1001622	Located >270m south-east of the Preliminary Order Limits and registered as a grade II park and garden for its historic, archaeological, architectural and artistic interests.

Receptors/Potential Effects	Justification
Locally listed building: DCH10236	These interests are derived from within the park itself and from the buildings/structures on its boundaries and in the park. Mature planting on the north-western boundary screens the railway immediately adjacent and blocks views in the direction of the Project. No perceptual change will be introduced to the setting of the park from the Project. This receptor is, therefore, scoped out of further assessment. A construction traffic route passes to the north and west of the park, along the A56. The route is screened from the park by the railway, mature boundary planting, and modern housing on Netherton Drive. The A56 as it passes the park is busy, with frequent passing traffic, including HGVs and LGVs. Use of this road as a construction site access would be short-term and temporary, given the nature of the construction programme. The magnitude of change introduced by construction traffic is considered to be negligible, with no significant effect to heritage assets likely to arise.
Former anti-aircraft operations room, Frodsham Hill Listed Building (Grade II): 1411745	Located ~670m south-east of the proposed construction site access along the A56 and nationally designated its historic interest. The heritage asset is separated from the A56 by the steep, wooded north side of Frodsham Hill and the Forest Hills Hotel, precluding and perceptual change within its setting.
Netherton Listed Building (Grade II): 1261906 Locally listed buildings: DCH10201, DCH10801	Located ~10m east of the proposed construction site access along the A56 and nationally designated or locally recorded its architectural and historic interest. The heritage assets are separated from the A56 by a narrow pavement and low boundary wall topped by planting. This boundary feature does not screen the assets from the A56. It is a moderately busy road with a 30mph speed limit. It is a bus route and is used by HGV and LGVs. Use of this road as a construction site access would be short-term and temporary, given the nature of the construction programme. It is not anticipated that the magnitude of change introduced by construction traffic would cause a significant effect to heritage assets.

Receptors/Potential Effects	Justification
Overton village Listed Buildings: 1253193 (Grade I), 1253364 (Grade II*) and 1254500, 1451843, 1253280, 1253190, 1261907, 1261829, 1253312 (all Grade II) Locally listed building: DCH10198	Located >730m south-east of the proposed construction site access along the A56 and nationally designated or locally recorded their historic and architectural interests. The A56 is separated from heritage assets in Overton by dense 20th and 21st century housing developments. Approaches to these assets do not utilise the A56. No perceptual change will be introduced to the setting of heritage assets from the proposed construction site access.
Weaver Park Industrial Estate Listed Building (Grade II): 1253574 Locally listed building: DCH10614	Located >100m north-west of a proposed construction site access and >130m south-west of the Preliminary Order Limits and designated for its historic and architectural interests. The heritage assets are located within a modern industrial estate and their approach is confined to this. It is not expected that any changes to setting would arise from the trenchless crossing or HAGI construction compounds, nor the construction site access along the A56.
Marshgate Farmhouse and barn, and adjacent boatman's shelter, Grade II Listed Buildings (1253624, 1253630, and 1261700)	Located adjacent to construction site accesses and compounds for the River Weaver trenchless crossing, and designated for their architectural and historical interests. These interests are drawn from the historic fabric of the buildings, their relationship with each other and the river, and views to farmland south of the river. Only views of the river and the farmland would be impacted by the Project, with temporary and short-term visibility of construction activity. The trenchless crossing is anticipated to take one and six months to construct. This would amount to a negligible magnitude of change which would not be significant.
Frodsham Lock (1261908) and boundary stones on former water meadows (1253196 and 1253304) Listed Buildings (Grade II)	Located >440m from the nearest component of the Project, a crossing construction compound, and nationally designated for their historic, architectural and archaeological interests. The heritage assets are separated from the Project by the Weaver Navigation, the River Weaver, and arable land. Mature trees line the banks of the

Receptors/Potential Effects	Justification
	watercourses reducing any visibility to glimpsed views at a distance. No other perceptual changes within the setting of these assets are anticipated. The magnitude of change is considered to be negligible, with no significant effect to heritage assets likely to arise.
The Daresbury Wreck Scheduled Monument: 1417593	Located ~400m from the nearest component of the Project, a crossing construction compound, and nationally designated for its historical and archaeological interest. The remains of the 18th century Mersey Flat sailing barge are located within the disused Sutton Stop Lock on the Weaver Navigation. The asset draws its significance from its relationship with the canal and lock. It is separated from the Project by the landscaped grounds of the Sutton Hall golf course and mature trees along the boundary of the golf course. Any views of the compound would be glimpsed and short-term temporary. No other perceptual changes within the setting of this asset is anticipated. No changes to the regime of the Weaver Navigation are anticipated and, therefore, no changes to the environmental conditions preserving the wreck are likely to arise. The magnitude of change is considered to be negligible, with no significant effect to the heritage asset likely to arise.
Sutton Weaver (see photograph in Appendix 6D, Image 5) Listed Buildings: 1253573 (Grade II*) and 1253619 (Grade II), respectively Locally listed buildings: DCH9776, DCH10615, DCH10617	Located ~20m from the proposed construction site access along the A56 and nationally designated or locally recorded their historic and architectural interests. The properties are separated from the A56 by private driveways with border planting. The A56 is a relatively busy road at this location, being a bus route and used by HGV and LGVs. Additional vehicle noise is produced by vehicles using the M56 motorway 170m to the north-east. It is not anticipated that any perceptual change would be introduced to the setting of these heritage assets that would affect their significance. These assets are, therefore, scoped out of further assessment.

Receptors/Potential Effects	Justification
Aston (see photograph in Appendix 6D, Image 6) Listed Buildings: 1138491 Church of St Peter (Grade I); and associated Grade II 1253142, 1312692, 1253137, 1138492, 1138493, 1138494, 1136699, 1261919, 1253138, 1253139, 1253140, 1136674, 1253141, and 1439502. Further Grade II Listed Buildings in the village: 1261920, 1253172, 1253146, 1261921, 1253189, 1136640, 1253186, 1253147, 1253144, 1253143, 1261931, 1253145 Scheduled Monument: 1018703 Locally listed buildings: DCH9910, DCH9915, DCH10795, DCH9908	Located >200m from the Preliminary Order Limits and nationally designated or locally recorded for their historic, archaeological and architectural interests. The heritage interests of these assets are drawn from the historic development of the village, particularly the old hall and the church. Their setting is drawn from their inter-relationships with the village, their association with key buildings, primarily the church, and the densely wooded landscaped grounds in their immediate surrounds with arable farming in the open views to the north and south. Approximately 1km of the construction of the proposed pipeline will be visible in the views to the north, in arable fields and beyond an existing overhead line. Impacts arising from this visual change will, in this location, be very short-term and temporary, with installation of the pipeline anticipated to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. At over 250m audial intrusion would be minimal and dust and vibration would not be expected. No above ground elements are proposed in this area and any change within the setting of these assets would, therefore, be during construction only. Aston Lane, from the north, is proposed as a construction site access and passes adjacent to some of the Grade II Listed Buildings in the village. Construction traffic would not pass through the centre of the village, approaching from the north before turning to the east. Aston Lane is a relatively quiet lane used by local residents, with some LGVs and heavier farming vehicles. Use by construction traffic would be short-term and temporary and may introduce a low magnitude of change within the setting of adjacent Listed Buildings. It is anticipated that the magnitude of change within the setting of these assets would not exceed negligible and significant effects would not be expected to arise. These assets are, therefore, scoped out of assessment.

Receptors/Potential Effects	Justification
Middleton moated monastic grange, eight fishponds and connecting channels Scheduled Monument: 1009847	Located >930m from the proposed construction site access along Aston Lane and nationally designated for its historic and archaeological interests. The scheduled site lies in dense woodland which restricts views out into the surrounding countryside. This woodland is separated from Aston Lane by almost a kilometre of intervening arable land. Use of Aston Lane by construction traffic would be short-term and temporary during the construction phase. No impacts to the setting of the monument are expected and this asset is, therefore, scoped out of further assessment.
Bankfield Farm, Aston Listed Building (Grade II): 1138490	Located ~220m from the proposed construction site access along Aston Lane and ~400m from the Preliminary Order Limits, nationally designated its historic and architectural interests. The heritage interests of the farmhouse are drawn from the building itself, its associated agricultural buildings and the surrounding arable fields. The Listed Building lies within a large farmyard which separates it from the proposed construction site access, preventing all but incidental glimpsed views to Aston Lane. Aston Lane is a relatively quiet lane used by local residents, with some LGVs and heavier farming vehicles. Use by construction traffic would be short-term and temporary. Approximately 1km of the construction of the proposed pipeline will be visible from the farmhouse in views to the east across arable fields, at a distance of approximately 480m and beyond an existing overhead line. Impacts arising from this visual change will, in this location, be very short-term and temporary, with installation of the pipeline anticipated to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. At over 450m audial intrusion would be minimal and dust and vibration would not be expected. No above ground elements are proposed in this area and any change within the setting of these assets would, therefore, be during construction only.

Receptors/Potential Effects	Justification
	It is anticipated that the magnitude of change within the setting of these assets would not exceed negligible and significant effects would not be expected to arise. These assets are, therefore, scoped out of assessment.
Pickerings Bridge Cottage and Store Room Listed Building (Grade II): 1139143 and 1139144, respectively	Located >910m south of a crossing construction compound and nationally designated their historic and architectural interests. Intervening topography and woodland, along with the distances involved mean that no perceptual changes are anticipated within the setting of these heritage assets, and they are scoped out of further assessment.
Heavy Anti-aircraft gunsite, 400m west of Sutton Fields Farm Scheduled Monument: 1019849	Located >500m from a proposed material storage area location and designated for its historic and archaeological interests. These interests are drawn from buried remains, extant structures and strategic views towards the River Weaver. A proposed material storage area will temporarily appear in these views. However, at the distance involved and given the short-term nature of the proposed activity, the magnitude of change within the setting of the gunsite would not exceed negligible. No significant effect is anticipated.
Island Farmhouse, Lodge Lane, Farmhouse Locally listed building: DCH10137	Located ~ 70m from the Preliminary Order Limits and locally recorded for its architectural and historic interests. These interests are drawn from the fabric of the building, its relationship with its surrounding buildings, yard and agricultural land. Whilst construction of approximately 900m of the pipeline is likely to impact views of the farmland to the north, and to cross the main access, these impacts will be short-term and temporary, with installation of the pipeline anticipated to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. Some minimal vegetation clearance may be required but this would have a negligible impact to the character of the large

Receptors/Potential Effects	Justification
	rectilinear fields, whose character would remain legible. Following reinstatement there would be no discernible change to HLC. No significant effect is anticipated.
Dutton Railway Viaduct Listed Building (Grade II*): 1216523	Located >940m south of a crossing construction compound and nationally designated its historic, aesthetic and architectural interests. Intervening topography and woodland, along with the distances involved mean that no perceptual changes are anticipated within the setting of this heritage asset, and it is scoped out of further assessment.
Trent and Mersey Canal at Preston-on-the-Hill and Dutton Conservation Area: Trent and Mersey Canal Listed Buildings: 1104925, 1115837, 1130435, 1248174, 1261904, 1115506, 1139145, 1115471, 1139146	Located between ~0.5 – 1km from the A533 proposed construction site access and nationally designated for their historic and architectural interests. Their interests relate to the development and evolving use of the canals. Their setting is defined by the canal, its towpaths and associated infrastructure. None of the heritage assets lie on the A533, being separated by intervening properties, fields and field boundaries. The A533 is a busy road with frequent LGV and HGV movements. It is not expected that any increase in traffic during construction would introduce any perceptual change within the setting of these heritage assets and they are, therefore, scoped out of assessment.
New Brook House, Dutton Listed Building (Grade II): 1139141	Located ~500m from the Preliminary Order Limits and ~200m from the A533 proposed construction site access and nationally designated historic and architectural interests. Extensive and dense mature woodland separate the asset from the pipeline and its adjacent construction compounds. No visual impacts are likely to arise and, due to the distance involved, audial and dust impacts are also unlikely. The A533 lies beyond an arable field and on a rise in the topography. Some visibility between the road

Receptors/Potential Effects	Justification
	and the asset exists, although this is limited by the slope of the land to the tops of vehicles. The A533 is a busy road with frequent LGV and HGV movements at this location. It is not expected that any increase in traffic during construction would introduce more than a negligible magnitude of within the setting of the heritage asset and it is, therefore, scoped out of assessment.
Dutton Lock (see photograph in Appendix 6D, Image 7) Listed Buildings (Grade II): 1139138, 1216524, 1329860	Located >120m from the Preliminary Order Limits and nationally designated their historic and architectural interests. These interests are drawn from the structures themselves, their relationship with each other, the canalised section of the River Weaver, known as Pickering's Cut, and the former tow path. The construction of approximately 900m of the proposed pipeline and its compound would be clearly visible from the sluices, and in some views from the lock, on the far side of the adjacent field, at a distance of approximately 200m. At this distance, some audial impacts might be expected. These visual and audial impacts would be short-term and temporary, with installation of the pipeline anticipated to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. The visual change within the setting of the assets would not affect their heritage interests as described above. The audial impacts may affect the ability to appreciate the modern recreational use of the canal but are unlikely to affect understanding of its historic use, as the waterways would not have been tranquil places in the 18th and 19th centuries. A negligible magnitude of change might be expected within the setting of these heritage assets during the construction phase. This would decrease to no change during operation. This would not give rise to a significant effect and, therefore, these assets are scoped out of further assessment.

Receptors/Potential Effects	Justification
Trent and Mersey Canal south of Dutton Lodge Farm to Willow Green Conservation Area: Trent and Mersey Canal Listed Buildings (Grade II): 1139147, 1228370, 1329862, 1320411, 1115485 Locally listed buildings: DCH10134	Crossed by the Project at two locations along this stretch and adjacent to construction compounds; locally recorded and nationally designated for their historic and architectural interests. These interests are drawn from the fabric of the structures, their relationships with each other and with the communities they connected. The trenchless crossing will see the installation of pipeline beneath the canal, with no operational above-ground impacts. Impacts to setting would be short-term and temporary, with the crossing taking between one and six months to construct, and would amount to a negligible magnitude of change. No significant effect would arise.
South Corridor	
Bartington Hall Farmhouse Listed Building (Grade II): 1329861	Located ~50m from the Preliminary Order Limits and designated for its historic and architectural interests. These interests are drawn from the fabric of the building, its relationship with its surrounding buildings, yard and agricultural land. Whilst construction of approximately 300m of the pipeline is likely to impact views of the farmland to the north-west, this impact will be short-term and temporary, with installation of the pipeline anticipated to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. Some minimal vegetation clearance may be required but this would have a negligible impact to the character of the fields, whose character would remain legible. Following reinstatement there would be no discernible change to HLC. No significant effect is anticipated.
Bartington Conservation Area Listed Buildings (Grade II): 1228455, 1329920, 1228487, 1228372, 1228766, 1279394 Locally listed buildings: DCH10139, DCH10416, DCH9762	Located on the proposed construction site access along the A49 through Bartington and nationally designated or locally recorded their historic and architectural interests. The heritage assets are focussed on the historic inn and its ancillary buildings. Their interests are drawn from their own structures, their relationships

Receptors/Potential Effects	Justification
	with each other and the historic development of the village and traffic along the road. The A49 through Bartington is a moderately busy road with some LGV and HGV movements. Use by construction traffic would represent a short-term and temporary change of a negligible magnitude within the setting of these assets. No significant effects are likely to arise, and these are scoped out of further assessment. A second group of assets lies north of the A49 bridge on the River Weaver. In addition to lying on a construction site access, they lie >250m from the temporary trenchless crossing construction compound on the river. The interests of these assets, both historic public houses, are drawn from their own fabric and from their relationship with travellers moving along the river and the road. Views of the temporary construction areas would be limited by the bridge superstructure and cottages on the north bank of the River. These views would not affect the relationship with the river and the road and no impact to the assets' heritage interests would occur.
Trent and Mersey Canal Bridge Number 210 and Milepost Listed Buildings (Grade II): 1135930 and 1330358	Located within the Preliminary Order Limits and nationally designated for their historic and architectural interests. These interests are drawn from the fabric of the structures and their relationship with the canal. The bridge is not proposed as a construction site access and no direct effects are anticipated. Construction activity to the west of the assets, including crossing compounds and a temporary bridge across the canal, would be clearly visible. At a close distance, noise may also be anticipated. These changes would not affect the interest of the heritage assets and no effect is anticipated. Given their position in the Preliminary Order Limits, the assets will be marked on plans in the CoCP to

Receptors/Potential Effects	Justification
	increase awareness of their locations and sensitivity.
Acton Bridge Listed Buildings: 1287596 (Grade II*); and 1287609, 1216500, 1216498, 1287635, 1216522 (all Grade II) Locally listed buildings: DCH9823, DCH9741, DCH9821, DCH9825	Located >350m from the Preliminary Order Limits of the pipeline and an associated material storage area and nationally designated or locally recorded for their historic and architectural interests. The interests of these assets are drawn from their own structures, their relationships with each other, the linear development of the village along Hill Top Road and Cliff Road, and the railway and canalised River Weaver which lie either side of the village. The pipeline is proposed for construction in the agricultural fields to the east, between the village and the canal. Views towards the canal from the heritage assets would include, at worst 600m of the development on a short-term and temporary basis, with installation of the pipeline anticipated to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. Views would include the pipeline itself along with a material storage area and a more distant crossing compound to the north on the River Weaver. Views would be limited by modern development on Acton Lane and field boundaries which contain a number of mature trees. The elevated position of the assets above the proposed pipeline would increase visibility and would also likely allow some audial changes within the setting of the assets. As with visual changes these would be confined to the construction period. The short-term and temporary nature of the perceptual changes within the setting of the assets along with the distance involved is likely to result in no more than a negligible magnitude of change. There would be no significant effect and the assets are, therefore, scoped out of further assessment.

Receptors/Potential Effects	Justification
Woodlands, Station Road, Acton Bridge Locally listed building: DCH9826	Located ~100m from the Preliminary Order Limits and ~180m from a temporary crossing construction compound, locally recorded for its historic and architectural interests. These interests are drawn from the fabric of the building, its landscaped gardens and the railway line. Mature and dense boundary planting will screen all but incidental views of the construction activity from the house. Audial change in the setting of the asset might be expected. Construction activity will be encountered on approach from the east, along Station Road, where an open cut crossing is planned. These changes would be short-term and temporary, with installation of the pipeline anticipated to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, and the open cut crossing taking approximately five days. This activity would not affect appreciation of the heritage interests of the asset. No impact to heritage significance would arise.
Weaverham Village Conservation Area Listed Buildings: Church of St Mary 1287233 (Grade I); and 1437262, 1228488, 1228511, 1228375, 1287122, 1228561, 1228639, 1228656, 1287128, 1228566, 1228562, 1228376 (all Grade II) Locally listed buildings: DCH10686, DCH10689, DCH10690, DCH10691, DCH10824, DCH9783	Located >210m from the Preliminary Order Limits and ~350m from the proposed construction site access on the A49, with the core of the Conservation Area and the majority of the heritage assets 800m distant, and nationally designated or locally recorded their historic and architectural interests. The interests of these heritage assets are drawn from their structures, their inter-relationships and their position in the historic core of the village, on High Street and Church Street, which evidences the development of Weaverham. Separated by the western part of the village, no change is expected for the majority of the Conservation Area and its heritage assets. Some visual change might be experienced at the western end of the Conservation Area, on Sandy Lane, where the locally listed Hanging Gate Public House (DCH10686) is located. Here the construction of

Receptors/Potential Effects	Justification
	the proposed pipeline might be glimpsed from upper storeys beyond the A49, trees screening this road, and the modern farm buildings of Mere House Farm. Visual change would be short-term and temporary, with installation of the pipeline anticipated to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. At the distances involved no audial or dust impacts are expected. At this location, the A49, proposed as a construction site access, is in a cutting with steep wooded sides. No changes to the setting of the heritage assets in Weaverham are anticipated from its use. The magnitude of change is, therefore, not expected to exceed a negligible level. No significant effect is anticipated, and these heritage assets are scoped out of further assessment.
Weaverham West Road and Forest Street Conservation Area: Weaverham West Road Listed Buildings (Grade II): 1228699, 1228377, 1287156 Locally listed buildings: DCH10826, DCH10685, DCH10684, DCH10692	Located >160m from the Preliminary Order Limits, >160m from a temporary crossing construction compound for the railway, and >30m from the proposed construction site access along the A49, and nationally designated or locally recorded their historic and architectural interests. The interests of these heritage assets are drawn from their structures, their inter-relationships and their position in the historic western development of the village, on West Road and Forest Street, which evidences the development of Weaverham around a large green. Some visual change may occur within the setting of these heritage assets, with elements of the construction of the development visible from upper storeys as glimpsed views beyond the screening planting of the A49. These views would be short-term and temporary, with installation of the pipeline anticipated to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. Some audial change may also be experienced, but this would be reduced by the distance involved and

Receptors/Potential Effects	Justification
	filtered by intervening mature vegetation. Dust is not expected to introduce any change. At this location, the A49, proposed as a construction site access, is in a cutting with steep wooded sides. No changes to the setting of the heritage assets in Weaverham are anticipated from its use. Given the short-term temporary nature of the impacts and that no change to the key elements of their setting will occur, magnitude of change is not expected to be more than negligible. No significant effect would likely arise, and these heritage assets are scoped out of assessment.
Farms west of Weaverham – Mere House Farm, Merebrow and Mere Bank Locally listed buildings: DCH10687, DCH9786, DCH10688	Located >80m from the proposed construction site access on the A49 and >200m from the Preliminary Order Limits and recorded locally for their historic and architectural interests. These assets form a group to the west of Weaverham, between the village and the modern A49. Their interests are drawn from their surviving surrounding farmland, each other, their agricultural ancillary buildings, and their own structures. Some visibility of the construction of the proposed pipeline may occur, glimpsed from upper storeys through screening planting along the A49. Some audial impacts may also occur across the same period. Change would be short-term and temporary, with installation of the pipeline anticipated to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. No impacts from use of the A49 are likely as the road is within a cutting, screened with trees at this location. Given the short-term temporary nature of the impacts and that no change to the key elements of their setting will occur, magnitude of change is not expected to be more than negligible. No significant effect would likely arise, and these heritage assets are scoped out of assessment.

Receptors/Potential Effects	Justification
Bryn Locally listed building: DCH10000 and DCH10013	Located >200m from the Preliminary Order Limits and ~50m from the proposed construction site access on the A49 and recorded locally for their historic and architectural interests. Bryn Smithy and Bryn Farmhouse interests derive from their structures and their connections with the development of the village, illustrated through their historic fabric and use. Further the farmhouse's relationship with its surrounding agricultural land contributes to its interests. Construction compounds and material storage areas may be visible in glimpsed views between intervening buildings and across agricultural land with mature trees in their boundaries. Audial change may be experienced within the setting of the smithy. At the distances involved, dust is not likely to be an impact. Construction activity is proposed outside the agricultural land surrounding the farmhouse. These impacts would be short-term and temporary, with installation of the pipeline anticipated to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. Impacts would not affect any of the key interests of the smithy or farmhouse. No significant effect is likely, and these assets are scoped out of assessment.
Corstage Farm Listed Building (Grade II): 1287234 Locally listed building: DCH10680	Located ~300m from a proposed material storage area location and ~300m from the Preliminary Order Limits, and nationally designated or locally recorded its historic and architectural interests. Its heritage interests are drawn from its own structure and its relationships with its ancillary buildings and surrounding agricultural land. The material storage area and pipeline lie outside of the agricultural land surrounding the farm. During the construction phase they may be seen at a distance as incidental views between mature trees in field boundaries and intervening buildings. Some audial change may occur, but this is likely to be a negligible level of change.

Receptors/Potential Effects	Justification
	These impacts would be short-term and temporary, with installation of the pipeline anticipated to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. They would not affect any of the key interests of the farmhouse. No significant effect is likely, and these assets are scoped out of assessment.
Sandiway Conservation Area Listed Buildings (Grade II): 1287491, 1415744, 1287517, 1287518, 1227730, 1228361, 1227733, 1227732, 1227728, 1227818 Locally listed buildings: DCH10024, DCH10036, DCH10017, DCH10035, DCH9728, DCH10023, DCH9729, DCH9727, DCH9749, DCH10040, DCH10038, DCH10034, DCH10019, DCH10033, DCH10018	Located between ~500m and 1km from the nearest elements of the Project, and nationally designated or locally recorded for their historic and architectural interests. The interests of these heritage assets are drawn from their structures, their inter-relationships and their scattered positioning indicating the development of Sandiway from an original dispersed settlement pattern. Extensive and dense mature woodland and an active quarry separate the assets from the proposed temporary construction compounds, material storage area, South Block Valve Option 1 (SBV1), and the proposed pipeline. No visual impacts are likely to arise and, due to the distance involved, audial and dust impacts are also unlikely. The proposed construction site access along the A556 lies within 20m of Listed Buildings 1227728 and 1227818 and locally listed DCH9749, DCH9727 and DCH10024. At this location, the A553 is a dual carriage and a busy road with LGVs and HGVs. No change to the setting of the heritage assets is anticipated from its use during construction. No perceptual changes are anticipated within the setting of these heritage assets, and they are scoped out of further assessment.
Roman Watling Street, Chester Road A556, west of Hartford	The recorded course of Watling Street, where it runs parallel to the modern course of the A556 Chester Road is crossed by the Project using a trenchless crossing. The location of the crossing is in an area of land quarried in the 1970s. No impact to buried archaeological remains is anticipated.

Receptors/Potential Effects	Justification
Farms off Hodge Lane, near Gorstage Listed Buildings (Grade II): 1228690, 1228569 Locally listed buildings: DCH10679, DCH10678, DCH9785	Located >400m from the Preliminary Order Limits and nationally designated or locally recorded for their historic and architectural interests. The interests of these heritage assets are drawn from their structures, their inter-relationships with each other and with their ancillary buildings and surrounding agricultural land. They are separated from the Project by agricultural fields with thick hedgerows with mature trees. The overlapping nature of the multiple field boundaries and the distances involved make it unlikely that any views of the development would be more than incidental and viewed at a distance. No audial or dust impacts are anticipated. No perceptual changes are anticipated within the setting of these heritage assets, and they are scoped out of further assessment.
West of Littledales Lane, near Hartford Locally listed buildings: DCH10675, DCH10285, DCH10677, DCH10676	Located >100m from the Preliminary Order Limits and locally recorded for their architectural and historic interests. The interests of these heritage assets are drawn from their structures, their inter-relationships with each other and with their ancillary buildings and surrounding agricultural land. In places, mature property boundaries will screen perceptibility of much of the construction phase, with installation of the pipeline anticipated to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, and the construction of the Block Valve taking up to 4 months. Where perceived, these changes would be short-term and temporary and represent a negligible magnitude of change. South Block Valve Options 1 and 2 (SBV1 and SBV2) are located in fields to the west and south of DCH10676 and DCH10677. Mature property boundaries and screening planting on the A556 Chester Road and an intervening property would screen all but glimpsed views of the Block Valves during operation. These incidental views would not affect interest drawn from the surrounding

Receptors/Potential Effects	Justification
	agricultural land, which would still be appreciable. No operational effect is anticipated. Some vegetation clearance may be required during construction. This would be very localised and reinstated where possible, with a negligible long-term effect to HLC.
Littledales Lane and Chester Road, Hartford Listed Buildings (Grade II): 1228373 Locally listed buildings: DCH10288, DCH10281, DCH10280, DCH10282, DCH10283, DCH10284	Located >300m from the Preliminary Order Limits and >180m from the proposed construction site access along the A556, and nationally designated or locally recorded for their historic and architectural interests. The interests of these assets are drawn from their structures, their relationship with Chester Road (Roman Watling Street), and the development of settlement around Hartford. They are separated from the Project by agricultural fields and 20th century housing. Visibility of the development is likely to occur only at the western assets, DCH10288 and DCH10281, across paddocks and between trees on a field boundary. These visual impacts would be short-term and temporary, with installation of the pipeline, following site preparation, expected to progress at a rate of 500m – 1km per day. Audial impacts are likely to only be perceived at these same two assets and are likely to be negligible given the distance. No dust impacts are anticipated. At this location, the A553 is a dual carriage and a busy road with LGVs and HGVs. No change to the setting of the heritage assets is anticipated from its use during construction. The magnitude of change is not expected to exceed a negligible level. No significant effect is anticipated, and these heritage assets are scoped out of further assessment.
Willow House and Addashaw Farm, Jack Lane, Bostock Locally listed buildings: DCH9941 and DCH9942	Located adjacent to temporary construction compounds and a material storage area location for the A533 trenchless crossing. Locally recorded for their historic and architectural interests.

Receptors/Potential Effects	Justification
	These interests are drawn from the fabric of the buildings, the garden in the case of Willow House and the farmyard in the case of Addashaw's, and the wider agricultural landscape. Perceptual change is likely to occur, affecting the wider agricultural landscape, during construction. However, this change would be short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, and the trenchless crossing taking between one and six months, and would represent a negligible magnitude of change which would not be significant. Vegetation clearance for pipe excavation is likely; this would be localised within field boundaries, particularly on Jack Lane, but would not affect legibility of HLC.
Trent and Mersey Canal at Bostock and Whatcroft Conservation Area: Trent and Mersey Canal Listed Buildings (Grade II): 1244514, 1244515, 1160389	Crossed by the Project along this stretch and adjacent to temporary construction compounds; locally recorded and nationally designated for their historic and architectural interests. These interests are drawn from the fabric of the structures, their relationships with each other and with the communities they connected. The trenchless crossing will see the installation of pipeline beneath the canal, with no operational above-ground impacts. Impacts to setting would be short-term and temporary, taking between one and six months to construct, and would amount to a negligible magnitude of change. No significant effect would arise.
South Corridor, Option 1 (SP1)	
Cattle tunnel Listed Building (Grade II): 1228362	Located ~300m from the Preliminary Order Limits and nationally designated for its historic and architectural interests. These interests derive from the connection with the railway, which it passes under, and the agricultural land either side, which it connects. Located in dense woodland beneath the railway embankment and at the distance involved, no

Receptors/Potential Effects	Justification
	perceptual change is expected within the setting of this asset. No significant effect is likely, and it is scoped out of further assessment.
Vale Royal Viaduct Listed Building (Grade II): 1160610	Located adjacent to the Preliminary Order Limits and nationally designated for its architectural and historic interests. These interests are drawn from the fabric of the bridge and its relationship with the railway and river. Whilst the construction of the Project would be perceptual from the asset, use of a trenchless crossing would negate any operation effects. Further, construction effects would be short-term and temporary, taking between one and six months to construct, amounting to a negligible magnitude of change which would not be significant.
South Corridor, Option 2 (SP2)	
New Park, Whitegate Road Locally listed building: DCH10761	Located ~100m from the Preliminary Order Limits and locally recorded for its historic and architectural interests. These interests are drawn from the fabric of the building and its immediate gardens, its wider landscape having been converted into a golf course. The Project would not affect these interests and no effect would arise.
Moulton Listed Buildings (Grade II): 1310471, 1139209, 1139210	Located >200m from the Preliminary Order Limits and nationally designated or locally recorded for their historic and architectural interests.
Locally listed buildings: DCH10494, DCH10493, DCH10491, DCH10086, DCH9940	These interests derive for the structures themselves, their relationship with the development of Moulton and, in the case of the farms on the eastern fringes of the village, the surrounding agricultural landscape. The assets are located within the limit of the settlement, with housing between the assets and the Project likely preventing any visual relationship. Whilst the development will cross one of the main approaches to the village, Jack Lane, this open cut crossing is removed from the assets in an area which would not contribute to their settings. Some audial change may be experienced, although this

Receptors/Potential Effects	Justification
	would be reduced by the close nature of the buildings. Audial change would be short-term and temporary, with construction of the crossing approximated at five days. Intervening buildings are likely to prevent any impacts from dust. The agricultural fields to the east are not affected by the scheme. The magnitude of change is not expected to exceed a negligible level. No significant effect is anticipated, and these heritage assets are scoped out of further assessment.
South Corridor, Option 4 (SP4)	
New bridge over the River Weaver Locally listed building: DCH10780	Located ~300m from a proposed trenchless crossing of the River Weaver, and locally recorded for its historic and architectural interest. The interests derive from the bridge's structure and its relationship to the Newbridge Salt Works, formerly located on the eastern banks of the river at this location, and the River Weaver. Visibility of the temporary construction compounds is likely either side of the river and audible change might be expected during construction. These perceptual changes, however, will not affect the key interests from which the bridge draws its heritage significance. No significant effect is anticipated, and this heritage asset is scoped out of further assessment.
East Corridor	
Thatched Cottage, near Lower Whitley Listed Building (Grade II): 1086950	Located ~30m from the Preliminary Order Limits and nationally designated for its historic and architectural interests. These interests are drawn from the fabric of the building and from its surrounding ancillary buildings. The project would not affect these interests and no effect would arise.

Receptors/Potential Effects	Justification
Kiln Farm, Well Lane, north of Frandley Locally listed building: DCH9907	Located ~25m from the Preliminary Order Limits and locally recorded for its historic and architectural interests. These interests are drawn from the fabric of the building, its relationship with ancillary buildings and the wider agricultural landscape. During construction, perceptual change would impact the wider agricultural landscape, with approximately 500m of the pipeline's construction visible. Given the size of the fields, no vegetation clearance is anticipated in the vicinity of the farm that would affect HLC. Impacts would be short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. This would amount to a negligible magnitude of change which would not be significant.
Boundary Stone on north side of Whitleybrook Bridge Listed Building (Grade II): 1329857	Located ~10m from the proposed construction site access along the A49 and nationally designated for its historic interest. This interest relates to the historic extent of the parish of Lower Whitley. At this location the A49 is a busy road used by LGVs and HGVs. The stone would be marked up on construction plans and on the ground to avoid any direct effects. Use of this road as a construction site access would not introduce and perceptual change into the setting of the asset and it is, therefore, scoped out of assessment.
Lime Tree Farmhouse, High Legh Listed Building (Grade II): 1329663	Located ~40m from the Preliminary Order Limits and nationally designated for its historic and architectural interests. These interests are drawn from the fabric of the building, its relationship with ancillary buildings and the wider agricultural landscape. During construction, perceptual change would impact the wider agricultural landscape, with

Receptors/Potential Effects	Justification
	visibility of approximately 330m of the construction pipeline and the M56 trenchless crossing. Construction of the pipeline may progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, while the trenchless crossing of the M56 is likely to take between one and six months. Some vegetation clearance might be anticipated in the vicinity of the farm, but this would be minimal and would not affect legibility of HLC. Impacts would be short-term and temporary. This would amount to a negligible magnitude of change which would not be significant.
Bridgewater Canal and associated heritage assets near Agden Bridge Listed Buildings (Grade II): 1265839, 1226456, 1265387, 1226458 Locally listed building: DCH12850	Crossed by the Project along this stretch and adjacent to temporary construction compounds; locally recorded and nationally designated for their historic and architectural interests. These interests are drawn from the fabric of the structures, their relationships with each other and with the communities they connected. The trenchless crossing will see the installation of pipeline beneath the canal, with no operational above-ground impacts. Impacts to setting would be short-term and temporary, taking between one and six months for the crossing to be constructed, and would amount to a negligible magnitude of change. No significant effect would arise.
Lower Whitley (see photograph in Appendix 6D, Image 8) Conservation Area Listed Buildings: 1139134 (Grade II*), 1329858, 1334367 (all Grade II) Locally listed buildings: DCH9792, DCH10766, DCH9790	Located ~40m from the Preliminary Order Limits and nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the historic structures themselves, their relationships with each other, the historic development of Lower Whitley, and the surrounding agricultural landscape. The Project lies in agricultural fields to the east of the village and is likely to be clearly visible from assets located on this side of settlement, particularly the Grade II* listed church. At this location the Project comprises the pipeline only and there are no above-ground elements. Some audible changes might be expected. Construction of the pipeline, and impacts associated with this, will be short-term and temporary, with construction

Receptors/Potential Effects	Justification
	of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. Any vegetation clearance required to construct the pipeline is likely to only have a very minimal effect on historic landscape character as boundaries in this area are predominantly fenced. A negligible magnitude of change is anticipated, arising from change within the agricultural fields contributing to the setting of the heritage assets. This change would be temporary and reversed and no significant effect is, therefore, likely. These assets are scoped out of assessment.
Higher Whitley, (see photograph in Appendix 6D, Image 9) Conservation Area Listed Buildings (Grade II): 1139135, 1335867, 1139133, 1086995, 1139131, 1329856 Locally listed buildings: DCH9789, DCH10764	Located >170m from the Preliminary Order Limits and nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the historic structures themselves, their relationships with each other, the historic development of Higher Whitley, and the surrounding agricultural landscape. The Project lies in agricultural fields to the south of the village, beyond the smaller, irregular fields close to the settlement and in the larger and more-rectilinear fields beyond. The development will be partially screened by intervening field boundaries which contain a number of mature trees and dense hedgerows. Views of the development will, therefore, be incidental and glimpsed at a distance across the closer fields. At the distances involved, audible change is unlikely to be more than very low. Some vegetation clearance may be required to enable construction across boundaries. This would be minimised and tightly focussed on the pipeline corridor and would not affect the overall legibility of the historic farming landscape. A negligible magnitude of change is anticipated, arising from change within the agricultural fields contributing to the setting of the heritage assets. This change would be short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day

Receptors/Potential Effects	Justification
	following the preceding short-term site preparation and pipeline fabrication activities. No significant effect is, therefore, likely. These assets are scoped out of assessment.
Birch Tree Lane, near Higher Whitley Listed Buildings (Grade II): 1086969, 1139132 Locally listed buildings: DCH9787, DCH9903	Located >700m from Preliminary Order Limits and >10m from the proposed construction site access along the A559; nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the historic fabric of the buildings themselves, their relationships with each other, the A559 and the surrounding agricultural landscape. Located beyond intervening fields, field boundaries, a lane, and intervening properties and at the distance involved, the Project would introduce no perceptual change within the setting of these heritage assets. At this location the A559 is a moderately busy road, used by busses, LGVs and HGVs. The use of this route by construction traffic would introduce no change to the setting of these heritage assets. No impact is anticipated, and these heritage assets are scoped out of further assessment.
North of Frandley Locally listed buildings: DCH9880, DCH9879, DCH9871	Located >250m from a proposed material storage area and temporary construction compound and recorded for their local historic and architectural interests. These interests are drawn from the structures themselves, their relationship with the surrounding agricultural landscape, and in the case of the public house (DCH9871), the A559. The Project is likely to be visible across agricultural fields to the north of these assets. The agricultural setting of these assets will remain, with the fields adjacent to the assets unaffected by the development. The relationship with the A559 would be unaffected. Some audial change may be experienced, this is likely to be minimal. These

Receptors/Potential Effects	Justification
	changes would be short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. The magnitude of change is unlikely to exceed a negligible level and significant effects are, therefore, unlikely. These assets are scoped out of assessment.
Frandley Listed Buildings (Grade II): 1115574, 1461217 Locally listed buildings: DCH9878, DCH9875, DCH9872, DCH9873, DCH9874	Located >620m from a proposed temporary material storage area and construction compound and nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the structures themselves, their relationship with each other and Frandley and the development of the settlement within a wider agricultural landscape. The Project is likely to be visible across 0.5km of agricultural fields to the north of the assets on the northern edge of the hamlet. The agricultural setting of these assets will remain, with the fields adjacent to the assets unaffected by the development. At the distance involved, any audial change would be very slight. These changes would be short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. The magnitude of change is unlikely to exceed a negligible level and significant effects are, therefore, unlikely. These assets are scoped out of assessment.
Antrobus Listed Buildings (Grade II): 1329839, 1139170, 1329837 Locally listed buildings:	Located >600m from the Preliminary Order Limits and nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the structures themselves, their relationship with each other and Antrobus and the development of the settlement within a wider agricultural landscape.

Receptors/Potential Effects	Justification
DCH9900, DCH9870, DCH9869, DCH9868	With intervening field boundaries, the Project may be visible in glimpsed and incidental views across 600m of agricultural fields to the north of the village. The agricultural setting of these assets will remain, with the fields adjacent to the assets unaffected by the development. At the distance involved and given the intervening vegetation, any audial change would be very slight. These changes would be short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. The magnitude of change is unlikely to exceed a negligible level and significant effects are, therefore, unlikely. These assets are scoped out of assessment.
Reed Lane, north of Antrobus Listed Buildings (Grade II): 1139175 Locally listed buildings: DCH9893, DCH9904, DCH9905	Located >50m from the Preliminary Order Limits and nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the historic fabric of the buildings and their relationship with the surrounding agricultural landscape. The construction of the pipeline will be visible and audible from these heritage assets, although views will be filtered by mature vegetation on the asset's boundaries and by agricultural buildings at Antrobus Hall (DCH9905). Vegetation clearance of hedgerows will occur in the footprint of the pipeline and immediately adjacent to it. This will be very localised, and the legibility of the field systems will remain. There will be a level of change within the agricultural setting of these assets; however, these changes will be very short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. The magnitude of change is assessed as negligible and no

Receptors/Potential Effects	Justification
	significant effect is, therefore, anticipated. These assets are scoped out of assessment.
Farms and houses between Antrobus and Arley Park Listed Buildings (Grade II): 1329840, 1139174, 1115654 Locally listed buildings: DCH9884, DCH9896, DCH9897	Located >500m from the Preliminary Order Limits and nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the historic fabric of the buildings and their relationship with the surrounding agricultural landscape. Intervening field boundaries, which are many given the small and irregular nature of the fields, and hedgerows along lanes, along with the distance involved are likely to prevent any visible or audible change within the setting of these heritage assets. No perceptual change is anticipated, and these assets are scoped out of assessment.
Galemoss Farmhouse and Crowley Grange (see photograph in Appendix 6D, Image 10) Listed Building (Grade II): 1116036, 1115730, 1139171	Located ~20m from the Preliminary Order Limits and nationally designated for their historic and architectural interests. These interests are drawn from the historic fabric of the buildings, the inter-relationships with each other, and their relationship with the surrounding agricultural landscape. The construction of the pipeline will be visible and audible from these heritage assets, although agricultural buildings and mature vegetation on field boundaries will limit these views to the section of the pipeline closest to the assets. At Galemoss, at worst this would not exceed 1km of visibility. At Crowley Grange, a worst-case scenario would be approximately 630m. Vegetation clearance of hedgerows will occur in the footprint of the pipeline and immediately adjacent to it. This will be very localised, and the legibility of the field systems will remain. There will be a level of change within the agricultural setting of these assets; however, these changes will be very short-term and temporary,

Receptors/Potential Effects	Justification
	with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. The magnitude of change is assessed as negligible and no significant effect is, therefore, anticipated. These assets are scoped out of assessment.
Parkmoss Farmhouse and ancillary buildings Listed Buildings (Grade II): 1329836, 1116058, 1139169	Located >200m from the Preliminary Order Limits and >20m from a proposed construction site access along Arley Road; nationally designated for their historic and architectural interests. These interests are drawn from the historic fabric of the buildings, the inter-relationships with each other and the farm yard around which they are set, and their relationship with the surrounding agricultural landscape. Approximately 660m of the construction of the pipeline will be visible and audible from these heritage assets, although the listed barns and mature vegetation on Arley Road will limit the range of visibility. The construction of the pipeline will be set against wider views of the surrounding agricultural landscape. No visual change will be experienced in the inter-relationship between the assets around the farmyard. Arley Road is a relatively quiet road, and the introduction of construction traffic is likely to be noticeable. However, a short-term and temporary increase in passing traffic will not affect the key interest which contribute to the significance of these assets. There will be a level of change within the agricultural setting of these assets; however, these changes will be very short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. The magnitude of change is assessed as negligible and no significant effect is, therefore, anticipated. These assets are scoped out of assessment.

Receptors/Potential Effects	Justification
Garland Hall Farm Listed Building (Grade II): 1115657	Located ~360m from the Preliminary Order Limits and >20m from a proposed construction site access along Caldwell's Gate Lane; nationally designated for its historic and architectural interests. These interests are drawn from the historic fabric of the building, the inter-relationship with the farm yard, and the relationship with the surrounding agricultural landscape, particularly the adjacent paddocks. Intervening field boundaries, which contain mature trees, and hedgerows along lanes, along with the distance involved are likely to prevent any visible or audible change within the setting of this heritage asset from the construction of the pipeline. Caldwell's Gate Lane is a relatively quiet road, and the introduction of construction traffic is likely to be noticeable. However, a short-term and temporary increase in passing traffic will not affect the key interests which contribute to the significance of this asset. No perceptual change that would affect significance is anticipated, and this asset is scoped out of assessment.
Reedgate Lane and Caldwell's Gate Lane, Antrobus Listed Buildings (Grade II): 1320315, 1139172, 1329838, 1244735 Locally listed buildings: DCH9892, DCH9889, DCH9890, DCH9891, DCH9887, DCH9888	Located >300m from the Preliminary Order Limits, >400m from a material storage area location, and >300m from the proposed construction site access along Arley Road; nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the historic fabric of the buildings, the inter-relationship with each other, and the relationship with the surrounding agricultural landscape. Incidental views of the construction of the pipeline may exist, glimpsed across intervening agricultural fields and between mature vegetation in field and road boundaries. At the distances involved, no other perceptual changes are likely.

Receptors/Potential Effects	Justification
	The material storage area proposed on the former airfield at Appleton Thorn is likely to be visible from northern assets in this group, across intervening fields and field boundaries and set against industrial warehouses north of the M56 which appear on the horizon. No other perceptual changes are anticipated. Arley Road is a relatively quiet road, and the introduction of construction traffic is likely to be noticeable. However, a short-term and temporary increase in passing traffic will not affect the key interest which contribute to the significance of these assets. There will be a level of change within the agricultural setting of these assets; however, these changes will be short-term and temporary. The magnitude of change is assessed as negligible and no significant effect is, therefore, anticipated. These assets are scoped out of assessment.
Arley Hall (see photograph in Appendix 6D, Image 11) Grade II* Registered Park and Garden (1000637) Listed Buildings: Grade I Cruck Barn (1329696); Grade II* Arley Hall (1329694) and church (1139505); and associated Grade II Garden, park and estate structures 1329698, 1139508, 1329697, 1139506, 1139507, 1139504, 1139503, 1329695, 1139542, 1277695, 1139541	Located >850m from the Preliminary Order Limits and >650m from the proposed construction site access along Caldwell's Gate Lane; nationally designated for their historical, archaeological, architectural and aesthetic interests. These interests are drawn from the focus of historic structures within the core of the extensive landscaped grounds and gardens and at the western entrance. These evidence the development of the hall, its use and its reorganisation of the earlier landscape. With heavily wooded boundaries on much of its perimeter, most of the interest are drawn from within the park and there is a sense of detachment from the wider landscape. The exception being the buildings at the entrances which link the park to the outer world. At the distances involved and given the intervening agricultural landscape, comprising tree-lined boundaries, wooded copses and scattered buildings, perceptibility of the construction of the pipeline is unlikely.

Receptors/Potential Effects	Justification
	Located ~650m from the western entrance to the park, any perceptible change to traffic on Calwells Gate Lane will not affect the park, whose main approach along Arley Road will be unaffected for over 0.5km approaching the asset. No perceptual change is expected within the setting of these heritage assets, and they are, therefore, scoped out of further assessment.
Crowley Hall and farm buildings at the Firs Listed Buildings (Grade II): 1139512 and 1139543 respectively	Located >200m from the Preliminary Order Limits and >300m from a temporary construction compound; nationally designated for their historic and architectural interests. These interests are drawn from the fabric of the structures, their relationships with adjacent agricultural buildings and the surrounding agricultural landscape. The proposed construction of the pipeline is likely to be visible across intervening fields and in field boundaries, for approximately 1km. Some audial change may also be experienced. Vegetation clearance along hedgerows is likely to be required. The proposed temporary construction compound lies within a wooded plantation adjacent to the M6 motorway. Retained trees on the southern boundary of the compound will reduce its visibility from these assets and background noise from the motorway will reduce levels of audial change experienced. Visual and audial changes will be short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities and the trenchless crossing of the M6 taking between one and six months. Changes to character will be minimal and not affect legibility of the field systems. Consequently, the magnitude of change anticipated is minimal and no significant effects are likely. These assets are scoped out of further assessment.

Receptors/Potential Effects	Justification
Cooper's Square, A50 Listed Building (Grade II): 1139517	Located ~200m from a temporary crossing construction compound, material storage area, and two Block Valve location options (EBV2 & 3) on the A50 and nationally designated for its historic and architectural interests. These interests are drawn from the fabric of the building itself and its garden defined by mature boundary planting, its relationship with the A50 and with the historic lane to its south-east. These interests would not be affected by the proposed construction activity or the operation of the Block Valves, being drawn from the area immediately about the property. No change to the setting would arise and this asset is scoped out of assessment.
High Legh Listed Buildings: Chapel of St Mary (Grade II*) 1139516, 1139515, 1115538, 1115523, 1115494, 1139514 Locally listed buildings: DCH9039, DCCH9038, DCH9040, DCH9041, DCH9042, DCH9043, DCH9036, DCH9034, DCH9035, DCH037	Located >400m from a construction crossing compound on the A50 and >100m from a proposed construction site access along West Lane; nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the fabric of the structures themselves, their relationships with each other, the historic core of the village, and the surrounding agricultural landscape which illustrate the development of the settlement. The Project may be visible in glimpsed views to the north of the village between mature trees in field boundaries and on West Lane and across intervening agricultural fields. It would also be encountered on approach to the village from the north, along the A50, where a trenchless crossing is proposed. No other perceptual changes are likely. Visual change would be short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities and the crossing taking between one and six months to complete. West Lane is a relatively quiet road along the northern edge of the village. The heritage assets are located to the south, within the core of the

Receptors/Potential Effects	Justification
	village. Change in traffic on this road would not affect the setting of these heritage assets. There is likely to be a minimal magnitude of change affecting the relationship with the wider agricultural landscape. No other interests would be affected. This would not result in a significant effect and these assets are scoped out of further assessment.
Farms and houses and their associated buildings, between High Legh and Broomfield Listed Buildings (Grade II): 1115546, 1329662, 1320360 Locally listed building: DCH9031, DCH12815, DCH12855, DCH12860, DCH12861	Located >450m from a construction crossing compound and nationally designated or located recorded for their historic and architectural interests. Their interests are drawn from the fabric of the structures themselves, their relationships with ancillary buildings and with the surrounding agricultural landscape. The temporary construction compound may be visible in incidental and glimpsed views between intervening buildings and mature trees, particularly in boundaries along intervening lanes and field boundaries close to the assets, and across a number of fields. No other perceptual change is anticipated. At the distances involved and given the intervening landscape, visibility of the development would not affect interests drawn from the surrounding agricultural landscape and no change to setting is anticipated. These assets are scoped out of further assessment.
Farms and houses and their associated buildings, along the A56 and B5159 Burford Lane Listed Buildings (Grade II): 1265841, 1226461, 1226462, 1329678, 1139551	Located >20m from the proposed construction site accesses along the A56 and along the B5159 Burford Lane; nationally designated for their historic and architectural interests. These interests are drawn from the fabric of the structures themselves, the relationship with other historic structures and from their relationship with the surrounding agricultural landscape. Use of these roads during construction would not affect these interests and no impacts are expected.

Receptors/Potential Effects	Justification
	These assets are scoped out of further assessment.
Bollington Listed Buildings (Grade II): 1139550, 1329639, 1121942, 1356510, 1067941	Located >340m from the proposed construction site access along Woodhouse Lane, B5160; nationally designated for their historic and architectural interests. At the distances involved and given intervening landscape features and current use of the road, no change will be experienced within the setting of these heritage assets from any change in traffic along the B1560 during construction.
Dunham Massey Park Registered Park and garden (Grade II*): 1000853 (See Photograph 12 Appendix 6D) Listed Buildings: Grade I Dunham Hall (1356512), Carriage House (1067942), and stables (1356495); Grade II* Saw Mill (1067903); and 1120856, 1121923, 1356494, 1067943, 1067916, 1067907, 1067944, 1121913, 1067904, 1356496, 1356473, 1067902, 1121901, 1121904, 1121956, 1067905, 1067906, 1067939	Located >900m from the Preliminary Order Limits. Intervening landscape features, particularly the Bridgewater Canal and its associated screening planting, Dunham Woodhouses village, and field boundaries, along with the distance involved mean there is unlikely to be any perceptual change within the setting of the park or its associated assets. No effect is likely. A light vehicle construction traffic route for staff vehicles is proposed along the B5160, Woodhouse Lane (see Chapter 11, receptor RE9). The change in traffic anticipated would not introduce a level of change in the setting of these assets.
Dunham Town Conservation Area Listed Buildings (Grade II): 1349044, 1337661, 1067913, 1067917, 1439944, 1338548, 1356511, 1110847, 1067915, 1356498, 1356497, 1349044	Located >1.3km from the Preliminary Order Limits. Intervening landscape features, particularly the Bridgewater Canal and its associated screening planting, Dunham Woodhouses village, and field boundaries, along with the distance involved mean there is unlikely to be any perceptual change within the setting of the Conservation Area or its associated assets. No effect is likely. A light vehicle construction traffic route for staff vehicles is proposed along the B5160, Woodhouse Lane (see Chapter 11, receptor RE9). The change in traffic anticipated would not introduce a level of change in the setting of these assets.

Receptors/Potential Effects	Justification
Farms and houses between Dunham Massey and Partington Listed Buildings (Grade II): 1067911 (Photograph 13, Appendix 6D), 1101723 HER entries: MGM9045, MGM8733, MGM9042, MGM8806, MGM11789, MGM8807, MGM8758, MGM8763	Located >200m from the Preliminary Order Limits and nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the fabric of the structures themselves, the relationships with their farmyards and ancillary buildings, and their surrounding agricultural landscapes. The construction of the pipeline will be visible and audible from some of these heritage assets. Views will be incidental beyond field boundaries and across lanes. The construction of the pipeline will be set against wider views of the surrounding agricultural landscape. No visual change will be experienced in the inter-relationship between assets, their farmyards and/or ancillary buildings. There will be a level of change within the agricultural setting of these assets; however, these changes will be very short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. The magnitude of change is assessed as negligible and no significant effect is, therefore, anticipated. These assets are scoped out of assessment.
Warburton Park (see photograph in Appendix 6D, Image 14) Listed Building (Grade II): 1356532	Located >1.7km from the Preliminary Order Limits and adjacent to the proposed construction site access along A6144 Warburton Lane, and nationally designated and locally recorded for their historic, archaeological and architectural interests. The former parkland surrounding Warburton Park house extends across the land between Warburton and Partington. Converted to agricultural use, its former limits can be discerned by the curving field boundaries surviving in the landscape. The house and its associated structures also survive, lying slightly west of the centre of the park. It is from these surviving features that historic interest is drawn. At its closest, the former park lies 1.75km from the pipeline centreline, with Warburton Lane and Moss Lane, Moss Wood, Mosshall Farm, Longridge

Receptors/Potential Effects	Justification
	Farm, Reedhouse Farm and associated agricultural land between. This intervening landscape will prevent any change within the setting of the park and house arising from the construction of the pipeline. There is a ditch on the north side of the A6144 which may relate to the historic boundary of Warburton Park. No intrusive works would be carried out along this section of the road and no direct effect would arise. The A6144 is a relatively busy rural road, linking a number of village communities to Partington (see Chapter 11, receptor RE11). There may be change in usage of the road in the short-term, during construction, but this would not affect the historic interests of the park and its associated heritage assets. These assets are, therefore, scoped out of further assessment.
Heritage assets of the A6144, Partington Listed Buildings (Grade II): 1067869, 1067870, 1389141	Located >30m from the proposed construction site access along the A6144. Nationally designated for their historic and architectural interests. At this location, the A6144 is a relatively busy urban road with buses and LGVs and some larger HGVs and construction traffic. Use of this route by construction vehicles associated with the Project is not expected to result in any change within the setting of these heritage assets and they are, therefore, scoped out of further assessment.
Church of St George, Partington Listed Building (Grade II*): 1067868	Located ~50m from the proposed construction site access on the A6144, north-east of Partington. Nationally designated for its historic and architectural interests. At this location, the A6144 is frequently used by LGVs and HGVs servicing the industrial sites north of Partington. Use of this route by construction vehicles associated with the Project is not expected to result in any change within the setting of these heritage assets and they are, therefore, scoped out of further assessment.

Receptors/Potential Effects	Justification
Westwood Lodge, Carrington Listed Building (Grade II): 1067867	Located ~100m from the proposed construction site access along the A6144 and ~350m from a material storage area location. Nationally designated for its historic and architectural interests. These interests are drawn from the fabric of the building itself and from the buildings position in the historic core of Carrington. At this location, the A6144 is frequently used by LGVs and HGVs servicing the industrial sites north of Partington. Use of this route by construction vehicles associated with the Project is not expected to result in any change within the setting of this heritage asset. The proposed material storage area is located within an existing industrial area off the A6144. It is screened from the heritage asset by buildings on the north side of the A6144 and in the northern part of the industrial site. Any views would be glimpsed between these intervening structures. No other perceptual changes within the setting of the asset are anticipated. These visual changes would not affect the interests of the heritage asset and no impact would arise. This asset is scoped out of further assessment.
North Corridor	
New Manor Farm moated site Scheduled Monument: 1011891	Located ~300m from the Preliminary Order Limits and nationally designated for its archaeological and historic interests. These interests are drawn from buried archaeological remains, earthworks and the relationship with the adjacent farm and surrounding piecemeal fields. Some vegetation clearance may be required to facilitate construction activity; however, this will be minimised as far as possible and reinstated following construction. Enclosures surrounding the monument would be unaffected by this clearance and interests contributing to significance would

Receptors/Potential Effects	Justification
	remain. At the distances involved, no dewatering is likely to occur from the excavation of the pipe trench. Perceptual change from the presence of the material storage area would not affect the interests of the asset. No significant effect is anticipated.
Marsh House, Marsh Lane, Dutton Listed Building (Grade II): 1115496	Located ~540m from the Preliminary Order Limits, and nationally designated for its historic and architectural interests. These interests are drawn from the fabric of the building itself, the relationship with associated buildings and with the surrounding landscape. The construction of the pipeline will be encountered on approaching the asset along Marsh Lane, at a distance of 750m from the main entrance to the asset. During construction glimpsed views may be seen from the asset across intervening field boundaries with mature trees and two large modern barns. Views towards the temporary construction compound will be limited from the asset itself by mature planting on the southern property boundary and main entrance. Some incidental views may exist across the intervening fields. No other perceptual changes within the setting of the asset are anticipated given the distances involved and the intervening landscape. Visual changes within the agricultural setting would be short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, and the crossing by open cut taking around five days; they would not affect interests drawn from the historic building nor from its inter-relationship with its surrounding structures. This is expected to represent no more than a negligible level of change and would not result in a significant effect.

Receptors/Potential Effects	Justification
Brook Farmhouse and Lightwood Farm, Dutton Listed Building (Grade II): 1139140 Locally listed building: DCH10142	Located >150m from the Preliminary Order Limits, and nationally designated or locally recorded for their historic and architectural interests. Brook Farmhouse is additionally located ~500m from a material storage area location. The interests of these assets are drawn from the fabric of the buildings themselves, their inter-relationship with surrounding and associated structures, and from the wider agricultural landscape in which they lie. The pipeline will be encountered on approach to these assets along Higher Lane and Marsh Lane respectively, within 150m of their main entrance. Clear views of approximately 800m of the construction of the pipeline in adjacent fields would exist, outside of the tight groups of farm buildings. Some audial change can be expected. The material storage area north-west of Brook Farmhouse would lie beyond Higher Lane and a number of field boundaries. These boundaries and lane would filter views, leaving only glimpses of the proposed material storage area from the heritage asset. No other perceptual change is anticipated from this element of the development. Visual and audial changes within the agricultural setting would be short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, and the crossing by open cut taking around five days; they would not affect interests drawn from the historic building nor from its inter-relationship with its surrounding structures. This is expected to represent no more than a negligible level of change and would not result in a significant effect.
Black Jane Farm House Listed Building (Grade II): 1130451	Located ~800m from a temporary crossing construction compound and ~300m from the proposed temporary construction site access along Higher Lane. Nationally designated for its historic and architectural interests.

Receptors/Potential Effects	Justification
	These interests are drawn from the fabric of the building itself, its inter-relationship with surrounding and associated structures, and from the wider agricultural landscape. Views of construction activity may be possible, glimpsed and at a distance. These views would be short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, and the crossing by open cut. No other perceptual change is anticipated. Across the distances involved and the intervening landscape features, no change affecting these interests will arise from the construction of the pipeline.
Queastybirch Hall, Summer Lane, Hatton Locally listed building DCH12793	Located ~0.74km from the Preliminary Order Limits and locally recorded for its historic and architectural interests, These interests are drawn from the fabric of the main building and the historic farm buildings on the opposite side of the lane, the association with the same farm buildings and their yard and from the surrounding agricultural fields. The proposed development would be located west of the fields surrounding the hall, beyond the adjacent farm buildings, a wood and, in the case of the northern part of the proposed development within 1km of the asset, would be beyond the M56. The nature of the development in this area would only lead to construction phase changes. There may be glimpsed views of construction activity across 600-700m of intervening fields. Views north or northwest are unlikely to include the proposed development due to mature trees along the M56 and the aforementioned woodland. This visual change would not affect appreciation of the heritage interests of the asset. At the distances involved, not other perceptual changes are likely. No change is anticipated.

Receptors/Potential Effects	Justification
North Corridor, Option 1 (NP1)	
Daresbury Conservation Area Listed Buildings: Grade II* Church of All Saints 1130450; 1429154, 1330356, 1330336 (all Grade II)	Located adjacent to the Preliminary Order Limits and nationally designated for their historic and architectural interests. These interests are drawn from the fabric of the structures, their relationship with each other and the historic development of the village and Daresbury Hall, and the wider agricultural landscape. The NP1 pipeline option passes adjacent to the Conservation Area and between the village and Daresbury Hall. Perceptual change affecting the wider agricultural landscape and views towards the Hall are likely, arising from visibility and audibility of the construction phase within the wider agricultural landscape and in views towards Daresbury Hall. At worst, 1.2km of the construction of the pipeline may be visible from this asset group. Perceptual changes would be short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, and the crossing of the B5356, Daresbury Lane by open cut taking around five days. No significant effect would arise.
North Corridor, Option 3 (NP3)	
Hatton Listed Buildings (Grade II): 1393569, 1329768, 1139341 Locally listed buildings: DCH12799, DCH12803, DCH12801, DCH12798, DCH13680, DCH12804, DCH12792, DCH12802, DCH12795, DCH12796, DCH12791, DCH12797	Located >100m from the Preliminary Order Limits and nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the fabric of the historic structures, their relationship with each other, the core of Hatton and the narrative of its development along with its wider agricultural landscape. There are two foci: around Hatton Hall and at a crossroad at the southern edge of the modern village. The construction of, at worst, 700m of the pipeline would be visible beyond trees lining the limit of the pastoral fields west of the village, lying within the larger arable fields. Mature trees close to the edge

Receptors/Potential Effects	Justification
	of the village and hedgerows in the arable fields will screen visibility of much of the activity, leaving only incidental views. The Project would be encountered, crossing the road by open cut, on approach to the village from the west and at a distance of ~400m. Intervening field boundaries, trees and buildings are likely to reduce if not entirely remove audial changes within the setting of the assets. No other perceptual change is anticipated. Visual change will be short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, and the crossing taking approximately five days and will only affect the contribution of the wider agricultural landscape to the interests of the assets. This would represent a negligible magnitude of change and no significant effect would arise.
Heritage assets between Hatton and Higher Walton Listed Buildings (Grade II): 1139367, 1135864 Locally listed buildings: DCH12657, DCH12656, DCH13003	Located >250m from the Preliminary Order Limits and nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the fabric of the buildings themselves, their inter-relationship with surrounding and associated structures, and from the wider agricultural landscape. Visual change is unlikely due to woodland at New Plantation and Bog Rough, the latter of which extends from the reservoir to Hatton in an unbroken belt. Audial change may be perceived at DCH13003, but this will be filtered by the adjacent New Plantation. No other perceptual change is anticipated. Audial change would be short-term and temporary and would represent a negligible magnitude of change. No significant effect is likely.
North Corridor, Option 5 (NP5)	

Receptors/Potential Effects	Justification
Locally listed buildings southwest and west of Higher Walton Locally listed buildings: DCH12999, DCH13002, DCH13011, DCH13004, DCH13005, DCH13026, DCH13015	Located <30m from the Preliminary Order Limits in an area where a number of route options are being presented at this stage. A worst-case scenario is assessed here, which includes all options. These assets are locally recorded for their historic and architectural interests. These are drawn from the fabric of the buildings, their ancillary buildings, their relationship with each other and with the wider agricultural landscape. Construction of the pipeline options would introduce perceptual change to the wider agricultural landscape. Vegetation clearance may be required for the excavation of the pipeline. However, use of this agricultural landscape by the Creamfields Festival has removed much of the former field boundaries and minimal impact to historic character is anticipated. These impacts would be short-term and temporary, representing a negligible magnitude of change. No significant effect is anticipated.
Bridgewater Canal between Moore and Higher Walton Listed Buildings (Grade II): 1130427, 1135981, 1312953, 1139354, 1139316, 1136109, 1329774	The Canal is currently crossed twice in this stretch by the Project. This is to allow for two location options for trenchless crossings at this stage. Consequently, the canal is adjacent to two sets of temporary construction compounds, one for each option. These assets are locally recorded and nationally designated for their historic and architectural interests. These interests are drawn from the fabric of the structures, their relationships with each other and with the communities they connected. The trenchless crossing option will see the installation of pipeline beneath the canal, with no operational above-ground impacts. Impacts to setting from construction activity would be short-term and temporary, taking between one and six months to construct the crossings, and would amount to a negligible magnitude of change. No significant effect would arise.

Receptors/Potential Effects	Justification
Locally listed buildings on Hobb Lane, Moore Locally listed buildings: DCH12996, DCH13013, DCH13014, DCH13674	Located the other side of Hobb Lane to the Preliminary Order Limits and locally recorded for their historic and architectural interests. These interests are drawn from the fabric of the buildings, their relationship with each other and with the village of Moore and Chester Road. Adjacent construction activity would not affect these interests, with access along Hobb Lane to Moore and Chester Road maintained. No effect would arise.
Locally listed buildings off, Runcorn Road and Mill Lane, Higher Walton Locally listed buildings: DCH13027, DCH13006, DCH13026, DCH13015	These heritage assets are outside the Preliminary Order Limits but are, currently, encircled by it. This is due to a number of route options being presented at this stage and will not necessarily reflect the extent of the consented development. However, a worst-case scenario is assessed here, which includes all options. These assets are locally recorded for their historic and architectural interests. These are drawn from the fabric of the buildings, their ancillary buildings, their relationship with each other and with the wider agricultural landscape. Construction of the pipeline options and the proposed crossings by open cut construction and their associated compounds would introduce perceptual change to the wider agricultural landscape and affect intervisibility between assets. Vegetation clearance for compounds would be avoided where possible but may be required for the excavation of the pipeline. Clearance would be minimal due to the use of fencing in a number of the affected boundaries. These impacts would be short-term and temporary, with open cut crossings expected to take approximately five days and pipeline construction progressing at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. This would represent a negligible magnitude of change. No significant effect is anticipated.

Receptors/Potential Effects	Justification
Higher Walton Conservation Area Listed Buildings: 1139352 (Grade II*); and 1136083, 1139355, 1329775, 1136025, 1139351, 1136037, 1139349, 1139356, 1139353, 1312985, 1139350, 1136000 (all Grade II) Locally listed buildings: DCH13190, DCH13018, DCH13025, DCH13029, DCH13009, DCH13696, DCH13010, DCH13023, DCH13021, DCH13000, DCH13007, DCH13008, DCH13697, DCH13012, DCH12995	Located >300m from a temporary crossing construction compound; nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the fabric of the buildings themselves, their inter-relationship with each other and the development of the village and canal, and from the wider agricultural landscape. Mature trees west of the A56 and Underbridge Lane and along the western boundary of Walton Christmas Tree Nursery would likely screen most views of the Project. Some views may remain, but these would be incidental and glimpsed across intervening fields and properties. Construction of the pipeline is expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, with open cut crossings taking approximately five days. Other perceptual change is unlikely due to the same intervening features and the distances involved. A construction site access is proposed along the A56, within the limits of the Conservation Area. At this location, the A56 is a dual carriageway used by LGVs and HGVs. Use by construction traffic is unlikely to introduce a level change that would affect the interests of the heritage assets. Visual change will be short-term and temporary and will only affect the contribution of the wider agricultural landscape to the interests of the assets. This would represent a negligible magnitude of change and no significant effect would arise.
North Corridor, Option 4 (NP4)	
Moore Conservation Area Listed Buildings: 1330357 (Grade II*); and 1130429, 1115463, 1330361, 1130430,	Located >200m from temporary crossing construction compounds. Nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the fabric of the buildings themselves, their inter-relationship with

Receptors/Potential Effects	Justification
1086982, 1330360, 1087010, 1130431, 1330359	each other and the development of the village, railways and canal, and from the wider agricultural landscape. Screening planting along the railways is likely to result in views of the Project existing to the east of the Conservation Area only. In these views, two temporary crossing construction compounds (Chester Road A56 and the canal) and the construction of the pipeline itself would be visible within agricultural fields. These views would be experienced on approaching the village from the south-east and from heritage assets on the southern side of the village. Views would be filtered by intervening buildings, hedged boundaries, and more mature trees along the canal adjacent to the village; at worst, up to 1km of the pipeline's construction may be visible. Audial change may also be experienced within the setting of the heritage assets during construction. The trenchless crossing of the canal is proposed to the east of a bend in the watercourse and not visible from the Conservation Area or associated heritage assets. Trenchless crossing can take between one and six months to construct. Chester Road's crossing is open cut and expected to take approximately five days. Perceptual changes would be short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, and the crossings described above. Change would affect interests drawn from the wider agricultural landscape only. This would represent a negligible magnitude of change and no significant effect would arise.
North Corridor	
Moore Lane Bridges Listed Buildings (Grade II): 1135930 and 1330358	Located within the Preliminary Order Limits and nationally designated for their historic and architectural interests.

Receptors/Potential Effects	Justification
	These interests are drawn from the fabric of the structures and their relationship with the Manchester Ship Canal. Construction traffic would be consistent with current use of the bridge and no change is anticipated. No effect would arise. Given their position in the Preliminary Order Limits, the assets will be marked on plans in the CoCP to increase awareness of their locations and sensitivity. Change to the setting of the asset is discussed below.
Manchester Ship Canal and associated infrastructure HER entries: MCH24520 Listed Buildings (Grade II): 1392449, 1135930, 1330358 Locally listed buildings: DCH13693, DCH12964, DCH13706, DCH13148	The Ship Canal is currently crossed by the Project twice. This is to allow for two location options for trenchless crossings at this stage. Consequently, the Canal is adjacent to two sets of temporary construction compounds, one for each option. This assessment considers both crossings. These assets are locally recorded and nationally designated for their historic and architectural interests. These interests are drawn from the fabric of the structures, their relationships with each other and with the communities they connected. The trenchless crossing will see the installation of pipeline beneath the Canal, with no operational above-ground impacts. Impacts to setting from construction activity would be short-term and temporary, taking between one and six months to construct, and would amount to a negligible magnitude of change. No significant effect would arise. Impacts arising from the operation of the HWH1 and HWH2 HAGIs are scoped into the assessment – see Table 6.12
Lower and Upper Moss Side Farms Locally listed buildings: DCH12702, DCH12701	Located ~40m from the Preliminary Order Limits and locally recorded for their historic and architectural interests. Lower Moss Side Farm lies between two options for the pipeline route; both are assessed.

Receptors/Potential Effects	Justification
	The interests of these assets are drawn from their fabric, their ancillary buildings and the agricultural fields surrounding them. The construction of the pipeline would impact interest from the agricultural landscape, with the Project cutting across this. Vegetation clearance would be required within the footprint of the pipeline working width. This would affect post-medieval field boundaries. Reinstatement of as much of these boundaries as possible would be carried out following construction to reduce impact to HLC. Construction impacts would be short-term and temporary, with construction of the pipeline expected to progress at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities. Following reinstatement, any residual impacts to HLC would be very localised and would not affect legibility of the landscape's post-medieval character. The magnitude of change would be negligible, and no significant effect is anticipated.
St Helen's Canal/Sankey Navigation HER entries: MCH8842	The Canal is crossed by the Project and is adjacent to a temporary construction compound. This asset is locally recorded for its historic and architectural interests. These interests are drawn from the fabric of the canal, their relationships with associated infrastructure and with the communities it connected. The trenchless crossing will see the installation of pipeline beneath the canal, with no operational above-ground impacts. Impacts to setting from construction activity would be short-term and temporary, with construction taking between one and six months, and would amount to a negligible magnitude of change. No significant effect would arise.
Ferry Inn Public House, St Helen's Canal, Penketh Locally listed building: DCH12890	Located ~500m from the Preliminary Order Limits and locally recorded for its historic and architectural interests. These interests are drawn from the fabric of the building, its relationship with the Canal and River

Receptors/Potential Effects	Justification
	Mersey, and the agricultural land beyond the river, to which it served as entry point. Impacts to setting from construction activity would be short-term and temporary, with construction taking between one and six months, and would amount to a negligible magnitude of change. No significant effect would arise.
Farms and associated buildings near Cuerdley Locally listed buildings: DCH12703, DCH12700, DCH12704, MME8388, MME8769	Located >100m from the Preliminary Order Limits and locally recorded for their historic and architectural interests. These interests are drawn from the fabric of the buildings, their relationships with ancillary buildings and the wider agricultural landscape. Impacts would affect interest drawn from the surrounding agricultural land only. Perceptual change to setting from construction activity would be short-term and temporary, with construction of the pipeline progressing at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, and the crossing on the A562 Widnes Road by trenchless crossing taking between one and six months. This would amount to a negligible magnitude of change. No significant effect would arise.
Farnworth Road, Penketh Listed Buildings (Grade II): 1139342 Locally listed buildings: DCH12893	Located >800m from temporary proposed material storage area locations and crossing construction compounds for the A5080 and the railway line; nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the fabric of the buildings, their relationship with each other and with the development of the western edge of Penketh, first as an agricultural landscape and later as a suburban fringe. To the north-west, agricultural fields contribute to the understanding of the area's farming past. Intervening field boundaries and buildings mean it is unlikely that the Project will be visible from the assets. At the distances involved, no audial changes are likely within their setting. The Project

Receptors/Potential Effects	Justification
	will be encountered on approach via the A5080 which will be crossed by a trenchless crossing, but the ~750m of agricultural landscape between it and the assets will preserve the interest drawn from these fields. No perceptual change within the setting of these assets is anticipated.
Cranshaw Hall moated site Scheduled Monument: 1011888	Located ~360m from the Preliminary Order Limits and nationally designated for its archaeological and historical interests. These interests are drawn from buried archaeological remains, earthworks, and the relationship with the adjacent Cranshaw Hall. At the distance involved, no direct effects to buried remains or earthworks, including through dewatering, are anticipated. No change to setting would affect the interests drawn from the adjacent Hall. No effect is anticipated.
Farms south of Bold Heath HER entries: MME8640, MME8636, MME8398, MME8644	Located >500m from the Preliminary Order Limits and locally recorded for their historic and architectural interests. These interests are drawn from the fabric of the buildings, their relationships with each other and their ancillary buildings, and the wider agricultural landscape. Field boundaries in this area are unlikely to prevent views of the construction of the proposed pipeline and there may also be visibility of the crossing construction compound for the railway line to be crossed by a trenchless crossing to the south. In these views, the development would be seen beyond the paddocks surrounding the farms and the large arable fields to their south. At the distances involved no other perceptual changes are likely. These visual impacts would be short-term and temporary, with construction of the pipeline progressing at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, and the crossing

Receptors/Potential Effects	Justification
	of the railway taking between one and six months. This would only affect interest drawn from the wider agricultural landscape. This would represent a negligible magnitude of change and would not result in a significant effect.
Bold Bridge Listed Building (Grade II): 1432249	Located >200m from the Preliminary Order Limits but on a proposed construction site access along the A57 Warrington Road. Construction traffic would be consistent with current use of the bridge and no change is anticipated. No effect would arise. The bridge will be marked on plans in the CoCP to increase awareness of its heritage significance and reduce further any risk of accidental damage.
Wood's House Farmhouse, near Rainhill Listed Building (Grade II): 1253412	Located ~50m from the Preliminary Order Limits and nationally designated for its historic and architectural interests. These interests are drawn from the fabric of the building, its relationship with ancillary buildings and the surrounding agricultural landscape, particularly the adjacent paddocks. Mature trees on the property's northern boundary will screen some visual changes from the proposed construction activity. However, perceptual change is likely to occur, affecting interest drawn from the wider agricultural landscape. This change would be short-term and temporary, with construction of the pipeline progressing at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, and the trenchless crossing of the A570 St Helens Linkway taking one to six months. Vegetation clearance that would affect HLC is not anticipated in the immediate area of the asset. A negligible magnitude of change is expected, and no significant effect would arise.

Receptors/Potential Effects	Justification
Rainhill Listed Buildings: 1253349 (Grade II*); and 1391828, 1253245, 1464701, 1253416, 1253246, 1253247, 1253470	Located >500m from the Preliminary Order Limits. Also, within 20m of the proposed construction site access along the A570, St Helen's Linkway. Nationally designated for their historic and architectural interests. These interests are drawn from the fabric of the structures and from their position within the historic core of Rainhill and relationship with other buildings therein. The Project lies east of the A570, a large dual carriageway with densely planted and mature screening on either side. This screening would prevent the perceptibility of the Project from heritage assets in the southern part of Rainhill. Further north, the Project crosses the A570 into agricultural fields east of Rainhill. 20th century housing off Wharfedale Drive prevents any likely change from the Project within heritage assets in this part of Rainhill. The A570 is a busy dual carriageway with frequent LGVs and HGVs. Use by construction traffic is not expected to introduce any change to the setting of heritage assets. No change is anticipated, and these assets are scoped out of further assessment.
Nutgrove Hall, Thatto Heath Listed Building (Grade II): 1199265	Located ~450m from the Preliminary Order Limits and nationally designated for its historic and architectural interests. These interests are now drawn solely from the fabric of the building as the former grounds of the Hall, including its gardens, have been redeveloped for housing. No perceptual change will occur within the setting of this heritage asset, and it is scoped out of further assessment.
St Anne's Well, near Rainhill Scheduled Monument: 1019449	Located ~40m from the Preliminary Order Limits and nationally designated for its archaeological and historical interests.

Receptors/Potential Effects	Justification
	These interests are drawn from buried archaeological remains, and from the relationship with the surrounding agricultural landscape. This landscape, however, has seen significant change over the last two centuries, with reorganisation and amalgamation of fields. Construction activity within the agricultural setting would have a short-term and temporary impact on this interest, with construction of the pipeline progressing at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, and the trenchless crossing of the railway taking between one and six months. This would represent a negligible magnitude of change which would not be significant. Impacts to interests drawn from buried archaeological remains are scoped into assessment.
Liverpool and Manchester Railway Line Listed Buildings (Grade II): 1391885, 1261826, 1253244, 1393700	The railway is crossed by the Project and is adjacent to a temporary construction compound. These assets are locally recorded and nationally designated for their historic and architectural interests. These interests are drawn from the fabric of the railway and associated structures, their relationships with associated infrastructure and with the communities it connected. The trenchless crossing will see the installation of pipeline beneath the railway, with no operational above-ground impacts. Impacts to setting from construction activity would be short-term and temporary, with the crossing taking between one and six months to construct, and would amount to a negligible magnitude of change. No significant effect would arise.
Former County Lunatic Asylum, Reeve Court Village, Thatto Heath HER entries: MME19551, MME7464	Located ~390m from the Preliminary Order Limits and locally recorded for its historic and architectural interests. These interests are now drawn solely from the fabric of the main central building and the remnants of the landscaped grounds to the south

Receptors/Potential Effects	Justification
	as much of the historic buildings and grounds to the east have been redeveloped for housing. The dense woodland to the south of the asylum will prevent any impacts from the Project. No perceptual change will occur within the setting of this heritage asset, and it is scoped out of further assessment.
Sherdley Hall Farmhouse Listed Building (Grade II): 1343272	Located ~290m from the Preliminary Order Limits and nationally designated for its historic and architectural interests. These interests are drawn from the fabric of the building, its associated agricultural buildings, and the remnants of Sherdley Park still legible in the landscape despite its redevelopment as a golf course. The pipeline is located west of the St Helen's Linkway, whose screening planting prohibits views in this direction from the asset. The pipeline is proposed to be located within Sherdley Road, which lies beyond the Linkway's screening and warehousing. No perceptual changes within the setting of the farmhouse are anticipated and the asset is scoped out of further assessment.
Ravenhead Listed Buildings (Grade II): 1283506, 1075913, 1084314	Located >680m from the Preliminary Order Limits and nationally designated for their historic and architectural interests. These interests are drawn from the fabric of the buildings, their relationships with surrounding associated buildings, and the development of the Plate Glass Works (now part of the Pilkington's Works) and the Alexandra Colliery. The colliery has been demolished and its site relandscaped and planted with trees. These trees along with extensive warehousing off Sutton Heath Road are likely to prevent any change within the setting of these assets from the Project.

Receptors/Potential Effects	Justification
	No perceptual changes within the setting of these heritage assets are anticipated and they are scoped out of further assessment.
Former industrial sites on the St Helen's Canal MCH8842 Scheduled Monuments: 1004917 and 1020908 Listed Buildings: 1075879 (Grade II*); and 1199288, 1431463 (both Grade II)	Located >190m from the terminus of the North Corridor pipeline and the St Helen's Spur; nationally designated for their historic, archaeological and architectural interests. These interests are drawn from the fabric of the structures and any surviving below-ground remains; the relationship with the canal and with each other as surviving elements of a former dense industrial landscape. The retail park west of St Helen's Linkway is likely to prevent any perceptibility of the Project's northern terminus from the heritage assets. Construction of the St Helen's Spur would be visible and audible along the Linkway and in the brownfield site south of the stadium. Visibility and audibility of the construction of the spur pipeline would not affect the interests of the heritage assets. Historic mapping indicates the brownfield site lies on the former Peasley Cross Colliery Site; therefore, remains associated with the scheduled and listed glass works (1004917 and 1199288) are unlikely to be affected. No change to setting is anticipated and these assets are scoped out of further assessment.
St Helen's Town Centre Conservation Areas: Victoria Square and George Street Listed Buildings: 1075878 (Grade II*); and 1260540, 1075912, 1075881, 1199202, 1075910, 1199141, 1283515 (all Grade II)	Located >650m from the terminus of the North Corridor pipeline and the St Helen's Spur; nationally designated and locally recorded for their historic, artistic and architectural interests. These interests are drawn from the fabric of the structures, their relationship with each other and the historic core of the town. In the case of Reflection Court (1283515), the relationship to the Pilkington works also contributes to its historic interest.

Receptors/Potential Effects	Justification
	The Project lies at a distance from the town centre and these heritage assets, separated by 20th and 21st century industrial sites, a retail park, car parking and the railway line. These intervening features prevent any perceptual change within the setting of the heritage assets from the Project. No change to setting is anticipated and these assets are scoped out of further assessment.
Spurs	
Runcorn Spur	
Weston village (see photograph in Appendix 6D, Image 15) Conservation Area Listed Buildings: 1130422 (Grade II*), 1104910, 1330364, 1130436, 1332962, 1130438, 1130444 (all Grade II)	Located ~150m south-west of the Preliminary Order Limits and designated for their historic and architectural interests. These interests derive from the development of Weston village, within which the assets are focused. The assets lie either side of the main routes through the historic core of the village, leading into the characteristic medieval Y-shaped junction in front of the Grade II* listed Church of St John's. The significance of these assets is drawn from this relationship with the village, its historic core, and the other heritage assets within. The church, as a focus for the wider parish, additionally draws significance from the wider surrounds, from which it has limited visibility. This landscape now comprises modern housing and infrastructure and a golf course. Elements of construction activity may be visible in views of St John's church spire. However, these views would be incidental and glimpsed across modern development and would be short-term and temporary. No perceptual change will be introduced to the setting of these assets from the Project that would affect their significance. These receptors are, therefore, scoped out of further assessment. The A557 is proposed as a construction site access and lies within 20m of the southernmost heritage assets in Weston village: grade II Listed Buildings the Old Hall (1330364) and its barn

Receptors/Potential Effects	Justification
	(1130436). The A557 is a dual carriageway frequently used by HGVs. No perceptual change will be introduced to the setting of heritage assets from the proposed construction site access.
Remains of Rock Savage Listed Building (Grade II): 1330365	Located ~150m east of the Preliminary Order Limits and 300m from the Runcorn HAGI; designated for its historic, archaeological and architectural interests. These interests derive from the fabric of the ruins; the relationship with the later, extant, building; and buried remains associated with the 16th century mansion and the earlier Clifton Hall. A wide belt of mature trees immediately to the west and south-west of the asset and a vehicle depot and boundary planting along Weaver View Road will prevent any visual change from either the construction of the Project or the operation of the Runcorn HAGI within the asset's setting. Whilst the trees would lose their leaves in the winter months, intervening bare branches and the vehicle depot would obscure views, with only glimpses of the construction and operation of the Project possible. Audial change during construction may be experienced; this would not affect the interest drawn from the asset's setting. No change to significance is anticipated.
Northwich Spur	
Trent and Mersey Canal between Willow Green and the Anderton Boat Lift Conservation Area: Trent and Mersey Canal Listed Buildings (Grade II): 1228368, 1244329, 1287192, 1227726, 1216659, 1216526, 1252738, 1244328, 1287612, 1244327, 1216525	Located between ~1.3km and ~20m from the proposed construction site access along the A533 and designated for their historic and architectural interests. Their interests relate to the development and evolving use of the canals. Their setting is defined by the canal, its towpaths and associated infrastructure. None of the heritage assets lie on the A533, being separated by intervening properties, fields and field boundaries. The A533 is a busy road with frequent LGV and HGV movements. It is not expected that any increase in traffic during construction would

Receptors/Potential Effects	Justification
	introduce any perceptual change within the setting of these heritage assets and they are, therefore, scoped out of assessment.
Trent and Mersey Canal, the Anderton Basin Conservation Area: Trent and Mersey Canal Scheduled Monument: 1021152 Listed Building (Grade II): 1139095	Crossed by the Project along this stretch and adjacent to temporary construction compounds; locally recorded and nationally designated for their historic and architectural interests. These interests are drawn from the fabric of the canal and its associated structures, their relationships with each other and with the communities they connected. Of particular significance is the scheduled boat lift. The trenchless crossing will see the installation of pipeline beneath the canal, with no operational above-ground impacts. Impacts to setting would be short-term and temporary, with construction of the crossing taking between one and six months, and would amount to a negligible magnitude of change. No significant effect would arise.
Saltersford Locks and Tollhouse on the River Weaver Listed Buildings (Grade II): 1227727 and 1287506, respectively	Located ~400m from the proposed construction site access along the A533 and designated for their historic and architectural interests. Their interests relate to the development and evolving use of the canals and this section of the canalised river. Their setting is defined by the river, its towpaths and associated infrastructure. Neither of the heritage assets lie on the A533, being separated by intervening properties, fields and field boundaries. The A533 is a busy road with frequent LGV and HGV movements. It is not expected that any increase in traffic during construction would introduce any perceptual change within the setting of these heritage assets and they are, therefore, scoped out of assessment.
Marbury Mill Listed Buildings (Grade II): 1139100, 1139099	Located ~250m from the proposed construction site access along Cogshall Lane and ~400m from the spur pipeline centreline; designated for their historic and architectural interests.

Receptors/Potential Effects	Justification
	Their interests relate to their historic structures; the Marbury Brook, mill race and ponds; and Marbury Hall to the north. The assets are separated from the proposed construction site access and the pipeline by mature and overgrown woodland immediately surrounding them. Properties on Cogshall Lane provide further screening. No perceptual change within the setting of these assets is expected and they are, therefore, scope out of assessment.
Rose Cottage, Winnington Listed Building (Grade II): 1261149	Located ~100m from the Preliminary Order Limits and ~40m from the proposed construction site access along the A533 and designated for historic and architectural interests. These interests derive from the historic fabric of the building and its relationship with the former park of Winnington Hall. Screening planting along the A533 and on the boundary of the industrial works site preclude visibility of the Project. Some audial changes may occur; these would be short-term and temporary and set against the background noise of the existing site and road. Intervening vegetation and distance are likely to prevent any impacts from dust. At this location, the A533 is a busy road used by LGVs and HGVs. No change is expected to arise within the setting of the asset from the use of this road as a construction site access. The magnitude of change is not expected to exceed a low level. No significant effect is anticipated, and these heritage assets are scoped out of further assessment.
Warrington spur	
Walton and Stockton Heath Stockton Heath London Road Conservation Area DCH8687	Located >420m from the Preliminary Order Limits and nationally designated or locally recorded for their historic and architectural interests.
Stockton Heath - Grappenhall Road Conservation Area DCH8688	These interests are drawn from the fabric of their structures; the relationship with each other and

Receptors/Potential Effects	Justification
Listed Buildings (Grade II) 1135939, 1135948, 1139344, 1240198, 1261144, 1313013, 1392449 Area of Archaeological Potential DCH12614 Locally listed buildings DCH12857, DCH12949, DCH12951, DCH12952, DCH12953, DCH12956, DCH12962, DCH12970, DCH12972, DCH12973, DCH12974, DCH12977, DCH12978, DCH12981, DCH12983, DCH12984, DCH13016, DCH13690, DCH13712	surrounding buildings; and their illustration of the development of these settlements from medieval and post medieval villages to 19th century growth areas next to major transport routes. The Project is located within existing roads north of the Ship Canal and separated from these heritage assets by the urban areas of Wilderspool and Lower Walton. Where the Project follows Clearwater Quays, there is no intervening development between the canal. However, 20th century development north of Barton Avenue and Knutsford Road, Stockton Heath screens the canal from the heritage assets in this area. No perceptual change will be experienced within the setting of these heritage assets, and they are scoped out of further assessment.
Grappenhall and Thelwall (See photograph in Appendix 6D, Image 16) Grappenhall Conservation Area DCH1424 Thelwall Conservation Area DCH1421 Listed Buildings (Grade I): 1139320 Listed Buildings (Grade II): 1136647, 1136654, 1139317, 1139321, 1139322, 1329758, 1329759, 1329760, 1329761, 1329796, 1329797, 1136665, 1136686, 1136694, 1136697, 1136711, 1139323, 1139324, 1139325, 1139326, 1226482, 1227407, 1312689, 1329762, 1393991 (note: all Listed Buildings listed above are located outwith the 1km study area) Locally listed buildings:	Located >780m from the Preliminary Order Limits and nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the fabric of their structures; the relationship with each other and surrounding buildings; and their illustration of the development of these settlements from medieval and post medieval villages to 19th century growth areas next to major transport routes. The Project is located within existing roads north of the Ship Canal and separated from these heritage assets by residential and industrial areas of Stockton Heath on the southern banks of the canal. Thelwall Conservation Area extends to the banks of the Ship Canal and has views along the waterway towards the Project. In these views the large industrial facility on the eastern end of Thelwall Lane will prevent visibility of much of the construction activity here. Some views may exist, at a distance and next to this industrial site. This visibility would not affect the interests of the Conservation Area.

Receptors/Potential Effects	Justification
DCH12715, DCH12716, DCH12721, DCH12722, DCH12762, DCH12770, DCH12727, DCH12730, DCH12731, DCH12738, DCH12739, DCH12760, DCH12761, DCH12774	No perceptual change is likely to be experienced within the setting of these heritage assets and they are scoped out of further assessment.
Lower Walton Listed Buildings (Grade II): 1310060, 1329737 Locally listed building: DCH13143	Located >20m of a proposed construction site access along Eastford Road and >100m from the Preliminary Order Limits (an access route); nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the historic fabric of the buildings; their relationship with each other and with the historic development of Lower Walton as an agricultural community. Eastford Road is primarily a residential street, but industrial facilities at its southern end result in the occasional use of the road by larger vehicles. Use of this road by construction traffic would not affect the historic interest of these assets. Views of construction of the spur pipeline in Morley Common playground may exist and construction would be encountered on entering the village, as it crosses Eastford Road and the River Mersey using a trenchless crossing. These changes would be short-term and temporary, with construction of the pipeline progressing at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, and the crossing of Eastford Road and the river taking one to six months, and would not affect the interests of these assets drawn from their setting. No significant effects are likely, and these assets are scoped out of further assessment.
Wilderspool Conservation Area: Greenalls Brewery Listed Buildings (Grade II):	The Preliminary Order Limits passes within the northern limit of the Conservation Area. These heritage assets are nationally designated and locally recorded for their historic and architectural interests.

Receptors/Potential Effects	Justification
1139429, 1161416, 1139428, 1389394, 1139374, 1161351, 1139373, 1310023 Locally listed buildings: DCH13089, DCH13708	These interests are drawn from the fabric of the structures and from their relationship with each other and the development of the Greenall's brewery and surrounding settlement in the 19th century. The proposed spur pipeline lies within Gainsborough Road/ Loushers Lane, which forms part of the northern boundary of the Conservation Area. No above ground elements are located here, and any effects would be confined to the construction phase. Construction within the road would introduce visual and audial change within the setting of these assets and may temporarily affect access. However, these changes would not affect the interests of the heritage assets and no significant effects are likely.
Latchford Conservation Area DCH1320 Listed Buildings (Grade II): 1329756, 1139391, 1139394, 1139393 Locally listed buildings: DCH13089, DCH13708 Area of Archaeological Potential: DCH12614	Located >20m from the Preliminary Order Limits and proposed construction site accesses; and nationally designated or locally recorded for their historic and architectural interests. These interests are drawn from the fabric of the structures; their relationship with each other and the development of Latchford in the 18th and 19th centuries. The proposed spur pipeline lies within the B5156, Station Road becoming Thelwall Lane. No above ground elements are located here, and any effects would be confined to the construction phase. Construction within the road would introduce visual and audial change within the setting of these assets and may temporarily affect access. However, these changes would not affect the interests of the heritage assets and no significant effects are likely.
Clock Face Spur	
Micklehead Green Moated Site Scheduled Monument: 1012329	Located <5m from the Preliminary Order Limits and nationally designated for its archaeological and historic interests.

Receptors/Potential Effects	Justification
	These interests are drawn from buried archaeological remains and its earthworks and, to some degree from the small area of agricultural land surviving to the south. The development of the Lea Green industrial area has removed contribution of interest from the wider area. Direct effects to interests drawn from buried remain and earthworks are scoped in to assessment. Construction activity would have a short-term and temporary impact to interest drawn from the fields to the south, with construction of the pipeline progressing at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, and the trenchless crossing of the St Helens Linkway taking one to six months. This would represent a negligible magnitude of change to the setting of the asset, which would not be significant.
Home Farm and Micklehead Green Farm HER entries: MME7677, MME7705	Located ~10m from the Preliminary Order Limits and locally recorded for their historic and architectural interests. These interests are drawn from the fabric of the buildings, their relationship with ancillary buildings and the wider agricultural landscape. Construction activity within the agricultural setting would have a short-term and temporary impact on this interest, with construction of the pipeline progressing at approximately 500m – 1km per day following the preceding short-term site preparation and pipeline fabrication activities, and the trenchless crossing of the St Helens Linkway taking one to six months. This would represent a negligible magnitude of change which would not be significant.

HyNet North West Hydrogen Pipeline

Delivering clean growth

Cadent
Your Gas Network