

**Lower Thames Crossing
6.3 Environmental Statement
Appendices
Appendix 6.10 - Assessment
Tables**

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Lower Thames Crossing

6.3 Environmental Statement Appendices

Appendix 6.10 – Assessment Tables

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1 Assessment tables

1.1 Assessment tables

Table 1.1 Conservation areas assessment table

Project ID	Name	Value	Construction physical impact	Construction setting Impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
CA2	Great Warley	High	None	Tree planting for the Nitrogen Deposition Compensation Area would not harm the value of the asset	None required	No change	Neutral	The presence of additional trees within the Nitrogen Deposition Compensation Area would not harm the value of the asset, which derives some value from its wooded setting.	None required	No change	Neutral
CA4	North Ockendon	High	Multi-utility network works would take place along the B186 within the Conservation which would introduce noise and construction traffic which would have a small but temporary impact on its aesthetic value.	The high-value designated North Ockendon Conservation Area (CA4), is partially located within the Order Limits, approximately 250m east of the M25. During the construction phase, the M25 compound would be established immediately to the south and south-west of the asset. A short-term online main construction route would be established through the Conservation Area, along Ockendon Road and the B186. Multi-utility network works would also take place areas along the B186. Construction of the main alignment and associated earthworks would take place c. 270m west of the asset. These activities would be mitigated through the good practice mitigation of appropriate screening of construction compounds and measures to reduce dust, noise and light (S326) and reinstatement of the agricultural land used for the construction compounds. Overall, with the implementation of mitigation this would result in a temporary impact of moderate adverse magnitude.	Screening of construction compounds, Good Practice, Reinstatement of Agricultural Land	Moderate	Temporary Moderate Adverse	North Ockendon (CA4) Conservation Area, which is of high value, is located approximately 250m east of the M25. The rural landscape surrounding the asset (albeit compromised to the west by the M25) makes a minor contribution to its overall value through its aesthetic and illustrative historical value as a rural settlement (Application Document 6.2, Figure 6.6, Viewpoint N-38). Operation of the Project would result in the presence of a new road c. 250m south-west of the asset, passing under the M25, and curving eastward through the currently rural landscape approximately 600m south of the asset. This would be mitigated by false cutting earthwork embankments along the main alignment to the south-east and south of Ockendon. The false cutting earthworks and overbridges would be visible in southward views out of the Conservation Area, from the PRoW in the western hamlet and the B186 in the eastern hamlet. However, key Internal views identified in the Conservation Area Character Appraisal (London Borough of Havering, 2008c) would not be altered. Overall, the Project would result in a permanent impact of moderate adverse magnitude and a moderate adverse effect, which is significant	False cutting earthworks	Moderate	Moderate adverse
CA5	Orsett	High	None	None	None	No change	Neutral	No change	None	No change	Neutral
CA6	East Tilbury	High	None	The high value designated East Tilbury Conservation Area (CA6), is located approximately 30m east of the Order Limits and	Screening of construction	Moderate	Temporary moderate adverse, permanent	East Tilbury (CA6) Conservation Area, which is of high value, is located approximately 510m east of the main alignment and associated earthwork	False cutting earthworks on the northern	Moderate adverse	Moderate adverse

Project ID	Name	Value	Construction physical impact	Construction setting Impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
				<p>main works area and approximately 510m east of the proposed location of the main alignment and associated earthwork embankments. The Tilbury Viaduct would be constructed approximately 550m to the south-west of the asset, and the Northern Tunnel Entrance Compound would be established approximately 135m to the south of the asset. The Muckingford Road Utility Hub would be established c. 400m west of the Conservation Area. Multi-utility network works would take place within the agricultural land between East Tilbury and the main alignment. These construction activities would cause visual and auditory disturbance to the rural setting to the south-west of the Conservation Area, which makes a minimal contribution to its value. However, the works would be large in scale and intrusive in nature. These temporary construction activities would be mitigated through screening of construction compounds with fencing and good practice measures to reduce the impact of dust, noise and lighting. Following the implementation of mitigation, construction of the Project is assessed to result in a temporary impact of moderate adverse magnitude and a moderate adverse effect, which is assessed as significant.</p>	<p>compounds, Good Practice</p>		<p>slight adverse</p>	<p>embankments. The Tilbury Viaduct would be located approximately 550m to the south-west of the asset. As a settlement built as a 'garden village', the surviving rural landscape to the west, south and south-east of the Conservation Area makes a minor contribution to its value, through its aesthetic and illustrative historical value. However, it should be noted that a 299-unit housing development has recently been constructed on the western side of the asset, further reducing its connections with the agricultural landscape (planning reference 09/50045/ TTGOUT). A 50-home development has also been constructed at Bata Mews immediately south of the Conservation Area (13/01163/FUL). The majority of the Conservation Area's value is derived from the evidential, historical and aesthetic value of its built form, features and open spaces, and from its associative historical value with Thomas Bata and its sister settlement in Zlín, in the Czech Republic, where the Bata company originated. The Project would result in the visible presence of tall infrastructure (Tilbury Viaduct) and earthworks through the agricultural landscape to the south-west of the Conservation Area, further eroding the rural setting in combination with the recently constructed developments mentioned above. While this would reduce the agricultural landscape in this direction, it would not be completely severed and several rural fields would remain adjacent to the south-western side of the asset. Noise levels would increase in the south-western part of the Conservation Area, although it should be noted that this area is historically industrial in character. Overall, the operation of the Project would result in a permanent impact of minor adverse magnitude and a slight adverse effect, which is not significant</p>	<p>side of the Tilbury Viaduct</p>		

Project ID	Name	Value	Construction physical impact	Construction setting Impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
CA7	West Tilbury	High	Construction of the Project would result in a permanent physical impact to the high-value West Tilbury Conservation Area (CA7). Construction of a utility access route and following that in the same location, an NMU route, would result in the removal of the 'gappy' hedgerow and bank that forms the northern boundary of the Great Common Field and of the Conservation Area itself. This would result in a minor impact and a slight, rather than moderate, effect due to the small scale of change to the overall value of the Conservation Area and due to mitigation.	A number of temporary construction activities would affect the asset, comprising the following: <ul style="list-style-type: none"> • Creation of a utility access route and associated utility working area across the northern edge of the Great Common field within the asset • A utility access route across open land immediately south of the Conservation Area • Establishment of the Northern Tunnel Entrance Compound immediately to the south-east of the asset • Construction of the main alignment approximately 185m to the east of the asset • Utility access route across the fields immediately to the south of the asset between Gun Hill and Coopers Shaw Road • Mains works construction access route (secondary access) along Coopers Shaw Road and Church Road immediately east of the asset. 	Screening of construction compounds, Good Practice, archaeological excavation and recording (REAC Ref. CH001; AMS-OWSI No. 4)	Permanent Minor and Temporary Moderate	Permanent Slight Adverse and Temporary Moderate Adverse	The asset's south-eastern extent would be approximately 195m to the west of the operational main alignment and Tilbury Viaduct. The Muckingford Road bridge over the A122 and earthworks would be located approximately 560m to the east of the northern part of the asset (Application Document 6.2, Figure 6.6, Viewpoints N-08, N-09 and N-11). These would greatly change the character of the agricultural land to the east of the asset, with the introduction of raised road infrastructure which would alter the views and the skyline and reduce the rural landscape between West and East Tilbury. Key views southward over the former marshes to the historically associated common land would remain, as would views to the west and north. Key views towards West Tilbury and the tower of the Church of St James from the landscape to the south-west would also be preserved. The introduction of the landscape earthworks to the south of the North Portal would not prevent views across the river to Kent. Several areas within CA7 would see a noticeable increase in noise levels due to the operational Project, largely in open land away from existing roads. The eastern part of the Great Common Field, around the Grade II* listed "Marshall's Cottages" (LB90) would see an increase of 5db to 10db (a moderate adverse change in noise terms). The southern part of the Conservation Area, to the south of the Grade II* listed "Church of St James" (LB33) would see a similar increase. Much of the eastern part of the Conservation Area at Low Street would also see a 5db to 10db increase (in the rural land away from the existing Church Road). These noise changes would noticeably reduce the rural character of the Conservation Area.	None	Moderate	Moderate adverse
CA8	Queen's Farm, Shorne	Medium	None	The medium value designated Queen's Farm Conservation Area (CA8) is outside the 1km study area but has been	None	No change	Neutral	Sited outside the 1km study area, Queen's Farm (CA8) Conservation Area has been included in this assessment as it is located within the	None	No change	Neutral

Project ID	Name	Value	Construction physical impact	Construction setting Impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
				included in this assessment as it is located within the landscape study area. Key views into and out of the asset, identified within the Conservation Area Appraisal (Gravesham Borough Council, 2017c), do not include the area within the Order Limits. These views are primarily focused northward, toward the River Thames. The areas within the Order Limits that would contain construction compounds and groundworks are distant from the asset, located across a gently rising landscape. While parts of the Order Limits are distantly visible from the asset, they do not contribute to its value and construction work is unlikely to be intrusive within the views at this distance. The asset would experience no change, resulting in a neutral effect, which is assessed as not significant				landscape study area. Queen's Farm (CA8) Conservation Area is of medium value. The asset is located approximately 1.1km east of the Order Limits (the below-ground element) and approximately 1.7km north-east of the South Portal. Key views into and out of the asset, identified within the Conservation Area Appraisal (Gravesham Borough Council, 2017c), do not include the Order Limits. These views are primarily focused northward, toward the River Thames. The areas of the land within the Order Limits which would contain above-ground development are distant from the asset, across a gently rising landscape with a number of intervening hedge- or tree-lined field boundaries; the dominant element of the view in the direction of the Order Limits is the line of electricity pylons. While parts of the land within the Order Limits are distantly visible from the asset, they do not contribute to its value and the Project is unlikely to be prominent or intrusive within the views at this distance. Operation of the Project would result in no change to the value of the asset, and therefore a neutral effect, which is assessed as not significant			
CA9	Shorne Village	High	None	The high value designated Shorne Conservation Area (CA9) is located approximately 500m south-east of the Order Limits and is predicted to experience a temporary change to its setting. During the construction phase, the Southern Tunnel Entrance compound, utility diversion works, and the construction of the main alignment would occupy much of the middle ground of one key external view identified in the Conservation Area Appraisal (Gravesham Borough Council, 2017d). Given the high elevation of the vantage point (Application Document 6.2,	None	Minor adverse	Temporary Slight adverse	CA9 Conservation Area derives its value primarily from the historical, evidential and aesthetic value of its built form and historic open spaces, although it also derives some value from its setting, including a number of key internal and external views. One such key external view (identified in the Conservation Area Appraisal (Gravesham Borough Council, 2017d)) overlooks the area within the Order Limits (Application Document 6.2, Figure 6.6, Viewpoint S-32), and is from a PRoW immediately west of the Conservation Area boundary, although similar views (somewhat filtered by seasonal vegetation) are likely to be possible with the adjacent parts of the Conservation Area. This wide-ranging	None	Minor adverse	Slight adverse

Project ID	Name	Value	Construction physical impact	Construction setting Impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
				Figure 6.6, Viewpoint, S-32) it would not be possible to mitigate this impact. This would result in a temporary impact of minor adverse magnitude and a slight adverse effect, which is assessed as not significant				<p>panoramic view encompasses a foreground of the arable chalk landscape (small arable fields, followed by the open prairie fields and golf course within the Order Limits), a middle ground of reclaimed marshland and the River Thames, to distant views of Essex beyond. The view contains a wide-ranging mix of agricultural, industrial, infrastructure and residential elements. The foreground is predominantly agricultural, apart from prominent electricity pylons and the Thames View Crematorium (immediately to the north of the Order Limits). In itself, this view makes a minor contribution to the overall value of the Conservation Area, through its aesthetic value.</p> <p>Woodland will be established in the NDEP areas c. 210m to the south-east and 220m to the south of Shorne Conservation Area. As the setting of the Conservation Area in these directions is enclosed and already contains a large amount of woodland, this is not assessed to result in harm to the value of the asset.</p> <p>During the operational phase the main alignment and South Portal area would be visible within the middle ground of this view. Large areas of the land inside the Order Limits within the view would be returned to landowners, and other areas would see a change in use from arable to areas of new contoured earthworks with woodland edge planting (Figure 2.4: Environmental Masterplan (Application Document 6.2) LE2.2), woodland with non-native species (EMP element LE2.11) and species-rich grassland (Figure 2.4: Environmental Masterplan (Application Document 6.2) LE1.3). Given the high elevation of the vantage point, it will not be possible to mitigate these changes to the key view. However, while the Project would introduce new elements within the middle ground, it should be noted that this would be in the context of a wide-ranging panoramic view which already contains a mix of rural,</p>			

Project ID	Name	Value	Construction physical impact	Construction setting Impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
								industrial, infrastructure and residential elements. The changes to this key view would result in a minor magnitude permanent impact.			
CA10	Thong Conservation Area	Medium	CA10 would experience a limited physical impact, comprising the widening of Thong Lane at the northern edge of the area and slight encroachment within the gardens of Homes for Heroes buildings on the western side of the road. This would result in a permanent minor magnitude impact to the asset.	Thong Conservation Area (CA10) is predicted to experience a temporary change to its setting from construction of the main alignment and associated earthworks and landscaping, the A2 compound and the southern tunnel entrance compound. This would temporarily introduce additional noise, lighting and visible construction activity and machinery to the asset's settings (Application Document 6.2, Figure 6.6, Viewpoint S-25). This would be mitigated by screening of construction compounds with hoarding (S325.08), and good practice construction procedures to reduce the impact of noise, dust and lighting. This would result in a temporary impact of moderate adverse magnitude and a moderate adverse effect on the medium value Thong Conservation Area (CA10) which is assessed as significant	Screening of construction compounds	Temporary Moderate, Permanent minor	Temporary moderate adverse, permanent slight adverse	The northernmost part of the medium-value designated Thong (CA10) Conservation Area extends within the Order Limits. Utility diversions to the west of Thong would require the movement of an existing electricity pylon closer to the edge of Thong Conservation Area, placing it approximately 75m west of the Conservation Area, as opposed to the current distance of approximately 200m. This would add to the change to the setting of the Conservation Area, introducing additional infrastructure in close proximity that would increase the enclosure of the current open setting, and consequently affect its value. In addition, the existing key northern approach to the Conservation Area (identified in the Conservation Area Appraisal (Gravesham Borough Council, 2017e)) on the historic route of Thong Lane would be altered with new woodland planting screening along a new curving road alignment. This would alter the historic approach to the Conservation Area and screen the existing key views towards the asset on the approach from the north. No mitigation has been identified that could reduce these impacts to the Conservation Area. The alteration of the northern approach into the Conservation Area and the large changes to elements of its setting that contribute to its value would affect the value of the Conservation Area. During the operational phase, the main alignment would be located approximately 50m to the west of Thong (CA10) Conservation Area, passing to the west of the asset to meet the rising earthworks of the M2/A2/Lower Thames Crossing junction approximately 125m south-west of the asset. The landscape earthworks to screen the M2/A2/Lower	Earthworks and woodland planting to screen part of A122 route	Moderate adverse	Moderate adverse

Project ID	Name	Value	Construction physical impact	Construction setting Impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
								<p>Thames Crossing junction would raise the ground level significantly to the south-west, and the M2/A2/Lower Thames Crossing junction would include flyover bridges. The character of the open agricultural land to the north-west, west and south-west of the asset would be changed to infrastructure and landscaping, and key external views towards the asset across the agricultural land to the west would be adversely altered.</p> <p>The landscape to the west of the asset does not form as prominent a background in views out of the Conservation Area as does Randall Wood to the east. However, glimpsed views westward from along Thong Lane within the Conservation Area would be slightly altered. The view out of Thong (CA10) Conservation Area from the PRow heading west from Thong Lane would be far more noticeably altered when viewed from the western edge of the Conservation Area. The key view looking south to the asset when approached from the north along Thong Lane would also be altered, with the realignment of the historic route of Thong Lane, and woodland planting which would screen views to the Conservation Area.</p> <p>While views looking east from Thong (CA10) Conservation Area to Randall Wood would not be altered, the external views westward towards the asset from the edge of the wood itself would be altered, with the Project visible in the background. Therefore, all of the key long-distance views of the Conservation Area identified within the Conservation Area Appraisal (Gravesham Borough Council, 2017e) would be adversely altered. Apart from the views from the north, key internal views within the Conservation Area would not be altered. However, a key characteristic of the Conservation Area, appearing 'islanded' within a rural landscape, would be compromised by the shrinking of the 'island' within which it sits.</p> <p>The long-term operational noise change</p>			

Project ID	Name	Value	Construction physical impact	Construction setting Impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
								<p>from the existing baseline would not be discernable from most parts of the Conservation Area (Figure 12.8, Application Document 6.2). In the western part of the Conservation Area, west of Thong Lane and in most cases to the rear of the properties along the lane, the operational noise would be 5 to 9.9dBA higher than the present which Chapter 12 assesses as a moderate adverse change. The introduction of additional traffic noise which was not previously present in the rural setting would cause a degree of harm to its aesthetic value.</p> <p>Regarding Lighting, according to Chapter 6 Appendix 7.9 (Application Document 6.2) states “there would be a perceived change in the night-time environment due to new sources of lighting (LED luminaires) and vehicle lights at the M2/A2/Lower Thames Crossing junction, in particular on the elevated Project road southbound to A2 westbound viaduct structure. Additional light sources would also be present along Thong Lane and on the Thong Lane green bridge south. The street lighting along the A2 corridor would change to LED luminaires. Installed on lower columns, emitting reduced light spill and skyglow compared with the existing luminaires, the prominence of the new lighting would be limited and perceived in the context of existing lighting. However, due to the widened corridor, the extent of lighting would be increased, with additional lanes of traffic and vehicle lights evident. The perception of lighting would be greatest further north in the LLCA away from existing lighting along the A2 corridor”, i.e. in the vicinity of Thong Conservation Area.</p> <p>The impacts to the Conservation Area would be mitigated by the Thong Lane green bridge to reduce visibility of the main alignment, a wooded circle around Thong helping to retain part of the rural setting (Design Principle S2.01), native woodland planting on the slopes of the M2/A2/Lower Thames Crossing</p>			

Project ID	Name	Value	Construction physical impact	Construction setting Impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
								<p>junction earthworks to the south-west to screen the infrastructure of the junction (Figure 2.4: Environmental Masterplan (Application Document 6.2) LE2.1, 2.2, 2.3, 2.4) and establishment of new woodland planting at the M2/A2/Lower Thames Crossing junction to help reduce the effects of new lighting on the night-time environment.</p> <p>Overall, these impacts to its views and setting would adversely affect the Conservation Area, although it would still be understandable as a linear village with no further change (after construction) to the relationships between the buildings and it would maintain its relationship with Thong Lane and the land to the west. Therefore, this would result in a moderate magnitude permanent impact to this medium-value asset and a moderate adverse effect, which is assessed as significant.</p>			
CA11	Cobham Village	High	The Order Limits extends partially within the asset along Halfpence Lane. The asset is predicted to experience a temporary change to its rural character from proposed utilities works along Halfpence Lane.	The high value designated Cobham Conservation Area (CA11) is located partially within the Order Limits and is predicted to experience a temporary change to its rural character from proposed utilities works along Halfpence Lane within and adjacent to the Cobham Conservation Area (CA11). This would result in a temporary impact of minor adverse magnitude and a slight adverse effect, which is assessed as not significant	None	Minor adverse	Temporary Slight adverse	<p>Cobham (CA11) Conservation Area is located partially within the Order Limits, at an area proposed for utilities works along Halfpence Lane, which will have been completed prior to the Operational Phase. The main alignment and associated landscaping would be located approximately 925m north of the asset. Halfpence Lane, included within the Order Limits, makes a minor contribution to the setting and character and appearance of the asset, as it forms a historic routeway and an approach to the village from the A2. The main alignment area within the Order Limits does not contribute to the value of the asset and is largely screened by intervening woodland and undulating topography. From the very north-eastern corner of the Conservation Area within Cobham Hall (RPG1), distant glimpses of the main area within the Order Limits are possible in the vicinity of Brewers Road but in themselves do not contribute to the value of the asset.</p> <p>The long-term operational noise change would not be discernably different from</p>	None	No change	Neutral

Project ID	Name	Value	Construction physical impact	Construction setting Impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
								<p>existing noise levels. During operation, the remainder of the area within the Order Limits would be largely screened from the asset by vegetation. However, there is potential for distant glimpsed views of the tallest elements of the M2/A2/Lower Thames Crossing junction (approximately 1.1km to the north-west) from the upper stories of buildings within the Conservation Area during the winter months (Application Document 6.2, Figure 6.6, Viewpoint S-(CH)07). Such distant glimpsed views would not affect the value of the Conservation Area.</p> <p>While night-time lighting will increase due to the widening of the A2 corridor, this will be in an area which is already lit (see Appendix 7.9 (Application Document 6.2) and Figure 7.18 (Application Document 6.3)), therefore the change is unlikely to be of a scale which would harm the value of the asset.</p>			
CA14	Riverside, Gravesend	High	None	The high-value Gravesend Riverside Conservation Area (CA14) would experience an impact from the use of Canal Road within the asset as a short-term online main works construction access route linking the Milton Compound with the Southern Tunnel Entrance Compound. The increase in traffic (within this already urban area) would result in a temporary impact of minor adverse magnitude and a slight adverse effect, which is not significant	None	Minor adverse	Temporary Slight adverse	No change	None	No change	Neutral

Table 1.2 Geoarchaeological assessment table

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
PQ-1	Appendix 6.5	Ebbsfleet carpark. Made/ backfilled ground onto Chalk, previously Chalk quarry	Low	None	None	None	No change	Neutral	N/A	None	No change	Neutral
PQ-2	Appendix 6.5	Ebbsfleet Valley (similar deposits to those at the HS1 Ebbsfleet Elephant site)	Medium	None	None	None	No change	Neutral	N/A	None	No change	Neutral
PQ-3	Appendix 6.5	Ebbsfleet Valley upland catchment - Head infilling dry valleys and as intermittent spreads/ patches	Medium	Deposits will be partially removed during construction of main alignment.	None	Archaeological excavation and recording	Negligible	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-4	Appendix 6.5	Shorne Woods Plateau - high-ground interfluvium between Thames and Medway, formed of outcrop of Lambeth and Thames Group bedrock	Medium	Deposits will be partially removed during construction of main alignment.	None	Archaeological excavation and recording	Negligible	Permanent Slight Adverse	None	None	No change	Neutral
PQ-5	Appendix 6.5	Jeskyns shelf high-ground interfluvium between Thames and Medway to wide spreads of Head and possibly small outcrops of high "plateau gravels"	Low	Deposits will be partially removed during construction of main alignment.	None	Archaeological excavation and recording	Negligible	Neutral	None	None	No change	Neutral
PQ-6	Appendix 6.5	Thong Lane, dip slope of North Downs - Chalk and Thanet Sand bedrock with Head in dry valleys and intermittently across bedrock sides and plateau surface	Medium	Deposits will be partially removed during construction of main alignment, South Portal and cut and cover	None	Archaeological excavation and recording	Negligible	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-7	Appendix 6.5	Filborough - Thames terraces (Lynch Hill and Taplow) lying on Chalk bedrock at foot of dip slope above south bank of Thames	High	Deposits partially removed by tunnelling	None	Archaeological excavation and recording	Minor	Permanent Moderate Adverse	N/A	None	No change	Neutral
PQ-8	Appendix 6.5	Thames, southern floodplain edge - Holocene alluvium overlying potential buried Pleistocene terrace deposits	High	Minor amounts of Pleistocene terrace deposits removed by tunnelling	None	Archaeological Survey and Archaeological Excavation and Recording	Minor	Permanent Moderate Adverse	N/A	None	No change	Neutral
PQ-9	Appendix 6.5	Thames, main floodplain - Holocene alluvium overlying Late Pleistocene gravel (Shepperton)	Medium	Deposits partially removed by North Portal and ground protection tunnel and during construction of main alignment	None	Archaeological Survey and Archaeological Excavation and Recording	Minor	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-10	Appendix 6.5	Thames, northern floodplain edge - Holocene alluvium overlying potential buried Pleistocene terrace deposits	High	Surface deposits may be partially removed by cut	None	Archaeological Survey and Archaeological	Minor	Permanent Slight Adverse	N/A	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
				and cover and during construction of main alignment		Excavation and Recording						
PQ-11	Appendix 6.5	Goshems Farm - outcrop of Lynch Hill Gravel surrounded by apron of Head deposits	Medium	Deposits will be partially removed during construction of main alignment.	None	Archaeological excavation and recording	Minor	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-12a,b	Appendix 6.5	Shearwater Avenue (PQ-12a) and Sutton's Farm (PQ-12b) - Mucking/Taplow Gravel spread with possible Lynch Hill outcrop at northwest edge of PQ-12a	Medium	Deposits will be partially removed during construction of main alignment.	None	Archaeological excavation and recording	Minor	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-13	Appendix 6.5	Chadwell Saint Mary - wide spread of Orsett Heath/Boyn Hill gravel	Medium	Deposits will be partially removed during construction of main alignment.	None	Archaeological excavation and recording	Minor	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-14	Appendix 6.5	Southfields - local high, Black Park Gravel (mapped as Orsett Heath Gravel by Bridgland)	Medium	Deposits will be partially removed during construction of main alignment.	None	None	Minor	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-15	Appendix 6.5	Brook Farm Channel - Head-filled channel-like feature between Mar Dyke Basin and main Thames estuary	Low	Deposits will be partially removed during construction of main alignment and Orsett Fen flood attenuation compensation.	None	None	Negligible	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-16	Appendix 6.5	Loft Hall Farm – Bedrock – dominated zone (Lambeth Group) on southwest side of Mar Dyke basin	Medium	Deposits will be partially removed during construction of main alignment.	None	Archaeological excavation and recording	Minor	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-17	Appendix 6.5	Cuckoo Lane - small outcrop of Lynch Hill/ Corbets Tey Gravel on southern side of Mar Dyke, with Head infilling minor dry valley	Medium	Deposits will be partially removed during construction of main alignment.	None	Archaeological excavation and recording	Minor	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-18	Appendix 6.5	Medebridge Road – south-east margin of wide spread of Lynch Hill Gravel on northwest side of Mar Dyke	High	Deposits will be partially removed during construction of main alignment.	None	Archaeological excavation and recording	Minor	Permanent Slight Adverse	N/A	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
PQ-19	Appendix 6.5	Kemps Farm, Dennis Road and Manor Farm - wide spread of Lynch Hill Gravel (including the Belhus Organic Channel) to west and north of the curving course of the Mar Dyke	High	Deposits will be partially removed during construction of main alignment.	None	Archaeological excavation and recording	Minor	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-20a,b	Appendix 6.5	East side of Mar Dyke basin (PQ-20a - Green Lane; PQ-20b - Castles Grove	Medium	Deposits will be partially removed during construction of main alignment and Orsett Fen flood attenuation compensation.	None	Archaeological excavation and recording	Minor	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-20c	Appendix 6.6	Bulphan - Head with patches of London Clay bedrock	Medium	None	None	None	No change	Neutral	N/A	None	No change	Neutral
PQ-21	Appendix 6.5	Mar Dyke narrows - narrowing channel of Mar Dyke as it passes south-westward towards the north side of the Purfleet anticline, infilled with Holocene alluvium	Low	Deposits will be partially removed during construction of main alignment and Orsett Fen flood attenuation compensation.	None	Archaeological excavation and recording	Negligible	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-22a,b	Appendix 6.5	Mar Dyke basin (PQ-22a - main part, Fen Farm; PQ-22b – north-west part, Puddle Dock) - Holocene alluvium (thin?) over Head or bedrock	Low	Deposits will be partially removed during construction of main alignment and Orsett Fen flood attenuation compensation.	None	Archaeological excavation and recording	Negligible	Permanent Slight Adverse	None	None	No change	Neutral
PQ-23a,b	Appendix 6.5	Mar Dyke, eastern margins (PQ-23a - Orsett Fen, Hobletts; PQ-23b - Stringcock Fen) - Head outcrops at edge of Mar Dyke basin, interspersed with spreads of presumed Holocene alluvium	Medium	Deposits will be partially removed during construction of main alignment and Orsett Fen flood attenuation compensation.	None	Archaeological excavation and recording	Negligible	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-24	Appendix 6.5	Mar Dyke basin, west side - Head on western edge of Mar Dyke, with occasional outcrops of London Clay bedrock	Medium	Deposits will be partially removed during construction of main alignment.	None	Archaeological excavation and recording	Negligible	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-25	Appendix 6.5	Hall Farm - major spread of Orsett Heath/ Boyn Hill Gravels, overlain in places by Head-filled depressions or minor channels	High	Deposits will be partially removed during construction of main alignment.	None	None	Minor	Permanent Slight Adverse	N/A.	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
PQ-26	Appendix 6.5	White Post Farm - local high ground, Black Park Gravel outcrops	Medium	Deposits will be partially removed during construction of main alignment.	None	Archaeological excavation and recording	Negligible	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-27	Appendix 6.5	Mar Dyke, northern edge - Head on edge of Mar Dyke (possible glacial till of Lowestoft Formation and glacio-fluvial outwash present beneath Head)	Medium	Deposits will be partially removed during construction of main alignment and Orsett Fen flood attenuation compensation.	None	Archaeological excavation and recording	Negligible	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-28	Appendix 6.5	Foxburrow Wood - Mainly Eocene bedrock (London Clay, Claygate Member, and Bagshot Formation) with occasional patches of Head	Medium	Deposits will be partially removed during construction of main alignment.	None	Archaeological excavation and recording	Negligible	Permanent Slight Adverse	N/A	None	No change	Neutral
PQ-29	Appendix 6.5	Park Pale - South Downs (Medway basin), chalk downs with Palaeocene outcrops (Thanet Sand, Lambeth Group) dissected by Head-filled dry valleys	Medium	Deposits partially removed during main alignment.	None	None	Negligible	Permanent Slight Adverse	N/A	None	No change	Neutral

Table 1.3 Historic landscape character assessment table: North of the River Thames

Historic landscape category	Value	Historic Landscape Types (HLTs) impacted	Construction / Operation Impact	Operation mitigation	Magnitude of impact	Significance of effect	Significance
Marshland and reclaimed land	Medium	HLT ref. II: Drained reclamation (curvilinear) pre-18th century, HLT ref. JJ: Drained reclamation (rectilinear) 19th-20th century	Impacts on the historic landscape from construction and operation have been considered cumulatively: Construction and operation of the North Portal and the main alignment, as well as landscaping and ecological habitat will permanently alter this historic landscape. Creation of ecological mitigation areas such as grassland or scrub with banks and ditches will permanently change the existing historic field pattern of this landscape.	Agricultural land will be reinstated either side of the main alignment between Tilbury and Chadwell St Mary, in keeping with the historic character of the reclaimed marshland.	Moderate	Moderate adverse	Significant
Open land, commons, heaths and fens	Medium	HLT ref. GG: commons with an open margin	Impacts on the historic landscape from construction and operation have been considered cumulatively: Construction and operation the main alignment will sever an area of open common land at Orsett Fen which has been relatively unchanged for centuries. Creation of wetland habitat either side of the operational alignment will alter the historic function of open common land at Orsett Fen.	None	Moderate	Moderate adverse	Significant
Farming landscape	Medium	HLT ref. DD: 20th century agriculture (boundary loss), HLT ref. TT: piecemeal enclosure by agreement, HLT ref. U: irregular enclosure, HLT ref Z: 20th century enclosure	Impacts on the historic landscape from construction and operation have been considered cumulatively: The historic agricultural landscape will be impacted by construction of the Project between West Tilbury and North Ockendon and the operational alignment will permanently change its character. Ecological mitigation areas such as such as grassland or scrub with banks and ditches will alter several units of this historic landscape. Nitrogen deposition (Ndep) compensation tree planting will permanently alter the agricultural landscape within Ndep sites at Hoford Road and Hole Farm.	The creation of open mosaic habitat would not significantly impact this historic landscape. Ndep compensation tree planting would impact the agricultural landscape at Hoford Road and Hole Farm sites.	Moderate	Moderate adverse	Significant
Industry and infrastructure	Medium	HLT ref. RR: former mineral extraction	Impacts on the historic landscape from construction and operation have been considered cumulatively: Construction and operation of the Tilbury Link and its associated earthworks would permanently change the character of an area of former mineral extraction (HLT ref. RR).	None	Minor	Slight adverse	Not significant
Woodland	Low	HLT ref. CC: ancient woodland HLT ref. AA: 18th to 20th century woodland plantation.	Impacts on the historic landscape from construction and operation have been considered cumulatively: Construction of the Project will result in the partial removal of three areas of ancient woodland (HLC ref. CC) along the Ockendon Link section of the LTC route. A small area of 18th to 20th century woodland plantation (HLC ref. AA) will be removed. A new community woodland is proposed at Hole Farm as part of nitrogen deposition compensation measures.	Replanting of woodland in small area of 18th to 20th century woodland plantation (HLT ref. AA). Ancient woodland compensation planting at Hole Farm.	Minor	Slight adverse	Not significant

Table 1.4 Listed buildings assessment table: North of the River Thames

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
LB153	1250606	Hole Farmhouse	High	II	None	LE8.7 Nitrogen Deposition Planning Mitigation would take place in the fields surrounding the asset. This would not be a highly visually-intrusive activity compared to road construction, and the temporary impact caused by this is assessed to be negligible.	None	Negligible	Temporary slight adverse	The high-value Grade II listed "Hole Farmhouse" is located south of Great Warley and is largely surrounded by land within the Order Limits (although the asset itself is outside the Order Limits). The majority of the fields around the asset would change in use from arable land to LE8.7 Nitrogen Deposition Planting Mitigation (which would include a mixture of woodland and open glades). The asset would become largely divorced from its agricultural setting and lose its functional historical connection with the surrounding farmland. The effect is assessed as moderate rather than large due to the lack of physical harm to the fabric building and its curtilage.	None	Moderate	Moderate adverse
LB11	1079926	The Rectory	High	II	None	Sited in the vicinity of the Order Limits off Church Lane, construction activity would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery. This would cause a minor adverse impact to this high value asset, as the key relationship with the church of St Mary Magdalene would not be affected. The effect is assessed as slight rather than	Good practice	Minor	Temporary slight adverse	The asset is located within the settlement of North Ockendon and its relationship with the village and the church would not be altered.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						moderate as the key element's of the asset's setting that contribute to its value would not be harmed.							
LB37	1111566	Whitecrofts Farmhouse	High	II	None	The main alignment (A13 junction) and associated earthworks would be constructed immediately to the north and west of the asset, with associated visual and aural disturbance to its setting. The Stanford Road Compound would also be established c. 300m to the south-east of the asset.	Good practice	Moderate	Temporary moderate adverse	The high-value Grade II listed "Whitecrofts Farmhouse" (LB37), now a care home, is located immediately south of the Order Limits, adjacent to the A1013. The main alignment (A13 junction) and associated earthworks would be present immediately to the north and west of the asset, altering the character of the formerly associated agricultural and in these directions and in very close proximity to the asset.	Woodland planting	Moderate	Moderate adverse
LB57	1111643	Baker Street Windmill	High	II	None	Baker Street Windmill (LB57) is located on the outskirts of the settlement of Baker Street, c. 60m to the east of the Order Limits. Utility diversion works for multi-utility networks would take place in the closest part of the Order Limits to the asset. Extensive construction activity for the A13/A1089/A122 Lower Thames Crossing junction, including the creation of earthwork embankments, would take place c. 75m to the south-west of the asset within a rural part of	Good practice	Moderate	Temporary moderate adverse	A significant effect is predicted due to the operation of the Project on Baker Street Windmill (LB57), a Grade II listed building located c. 70m east of the northern part of the A13/A1089/A122 Lower Thames Crossing junction. The existing rural land to the west of the asset would be replaced by the junction, including the roads themselves, earthwork embankments and ditches and landscape mitigation planting. This would greatly change the character and topography of a part of the setting of the asset that makes a contribution to its value. However, it should be noted that earthwork embankment adjacent to the main alignment would	Earthworks and planting	Moderate	Moderate adverse

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						<p>its setting that contributes to its value. The construction activity would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery. This would result in a temporary impact of moderate adverse magnitude and a moderate adverse effect, which is assessed as significant. The effect is assessed as moderate rather than large due to the lack of physical harm to the asset and lack of harm to other elements of its setting that contribute to its value such as its relationship with Baker Street.</p>				<p>be at their lowest point in closest proximity to the asset, increasing in height towards the south as they continue away from the asset. This would retain a degree of openness in the vicinity of the asset, although this would be slightly lessened by planting on the embankment (LE2.11 Woodland with Non-Native Species). The noise levels in the vicinity of the asset would not greatly increase as a result of the operation of the Project. Night-time light levels are likely to increase, due to the presence of 10m, 12m and 15m-tall Post Top lighting columns along the junction alignment. An overhead gantry would be located c. 166m to the south-west of the asset, although this would be screened by intervening tree planting (LE2.11 Woodland with Non-Native Species). As a windmill, the asset was built in open countryside which would enable strong winds to power its sails. This connection with the open countryside has already been somewhat eroded by the existing A13 junction c. 240m to the south-west and it would be further eroded by the operation of the Project. Consequently, the operation of the Project would cause a permanent impact of moderate adverse magnitude to this high value asset and a</p>			

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
										moderate adverse effect, which is significant			
LB109	1358548	Barn and Stable Block to the north of Broadfields Farmhouse	High	II	None	Sited immediately to the north-west of the Order Limits, activity associated with utility diversion works c. 60m south-east of the asset and construction of the main alignment c. 90m south-east of the asset (and associated vegetation removal) would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery. The effect is assessed as slight rather than moderate due to the fact that the majority of the elements of the setting of the asset that contribute to its value would remain unharmed.	Good practice	Minor	Temporary slight adverse	The asset is located adjacent to the existing route of the M25. The Project would increase the scale of the road infrastructure adjacent to this heritage asset, although its rural setting would remain intelligible. This would be mitigated by landscape planting - LE2.11 Woodland with Non-Native Species to replace some of the removed vegetation and to screen the road from view. The effect is assessed as slight rather than moderate due to the fact that the majority of the elements of the setting of the asset that contribute to its value would remain unharmed.	LE2.11 Woodland with Non-Native Species	Minor	Slight adverse
LB127	1111547	Riverside Station, including floating landing stage	High	II*	None	This asset is sited opposite Gravesend water-front and this would not be altered by construction activity. The online construction access route along Fort Road to the north of the asset would be the closest construction activity but would not change the current nature of the setting.	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral
LB128	1111553	Old Rectory	High	II	None	Construction activity would take place in the field adjacent to	Good practice	Minor	Temporary slight adverse	The distantly visible earthworks around the North Tunnel Portal would	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						the asset to establish an NMU route and ecological mitigation areas (LE6.41 Marsh and Wet Grassland - Coastal Grazing Marsh, LE6.2 Banks and Ditches (Polygon) and LE6.12 Water Bodies and Associated Plants - Shallow Scrape). The field in which the ecological mitigation takes place would also be used for light vehicle access to the northern tunnel construction compound. These works would introduce a small degree of visual and aural disturbance to the rural setting of the asset. The minor impact would result in a slight, rather than moderate, effect due to the minor scale of work in close proximity.				not harm the value of this asset.			
LB133	1111632	World's End Inn	High	II	None	The online construction access route along Fort Road c. 550m to the north of the asset would not cause impacts to elements of the setting that contribute to the value of the asset.	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral
LB134	1146774	Gun Hill Farmhouse	High	II	None	The online utilities access route along Gun Hill and the multi-utility network works c.100m to the east of the asset	Good practice	Minor	Temporary slight adverse	Although elements of the operational scheme could be very distantly visible c. 2km to the south-east of the asset, these would not harm an element of its	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						would introduce construction traffic and activity which would disturb the rural setting of the asset. This would result in a minor impact and slight rather than moderate adverse effect, due to the small scale of change to the setting of the asset.				setting that contributes to its value.			
LB152	1250605	Hulmers	High	II	None	The closest construction activity would be online construction access route along the existing A127, which would not change the setting this asset.	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral
LB110	1393327	Bata Industrial Buildings Numbers 24 and 34, Victory House and Nelson House	High	II	None	The construction activity would be located in the farmland to the west of the asset, changing the rural aspect of its setting. Construction would not affect the relationship between the asset and the associated settlement of East Tilbury, which is a crucial aspect that informs its value. The construction of the Project would not impact upon the value of these historic industrial building associated with East Tilbury.	Good practice	No change	Neutral	The Project would be distantly visible from the asset, but would not affect the relationship between it and East Tilbury. Some views towards the asset from the west may be interrupted by the main alignment, but would not be completely severed. The operation of the Project would not impact upon the value of these historic industrial building associated with East Tilbury.	None	No change	Neutral
LB157	1263167	Brick House Hotel	High	II	None	The closest construction activity would be online construction access route along the existing A127, which	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						would not change the setting this asset.							
LB160	1297215	Stony Hills Farm	High	II	None	Construction activity would be on and adjacent to the existing M25, and would not alter the asset's relationship with the surrounding farmland.	None	No change	Neutral	No change to current setting	None	No change	Neutral
LB169	1337129	Church of St Katherine	High	I	None	Construction activity would take place in the field opposite the church to establish an NMU route and ecological mitigation areas (LE6.41 Marsh and Wet Grassland - Coastal Grazing Marsh, LE6.2 Banks and Ditches (Polygon) and LE6.12 Water Bodies and Associated Plants - Shallow Scrape). The field in which the ecological mitigation takes place would also be used for light vehicle access to the northern tunnel construction compound. These works would introduce a small degree of visual and aural disturbance to the rural setting of the asset. The minor impact would result in a slight, rather than moderate, effect due to the minor scale of work in close proximity.	Good practice	Minor	Temporary Slight Adverse	The distantly visible earthworks around the North Tunnel Portal would not harm the value of this asset.	None	No change	Neutral
LB181	1375568	Officers' Barracks Tilbury Fort	High	II*	None	The setting of the asset is formed by its location within the	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						fort and this would not be altered by construction activity.							
LB188	1079929	Bullens and Herds (to the north of Home Farm)	High	II	None	The setting does not extend to the construction activity.	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral
LB203	1111568	Waltons Hall	High	II	None	Minor construction activity for OHL restringing and establishment of associated utilities offline access routes would take place adjacent to the asset. This would not alter its relationship with neighbouring buildings or the surrounding farmland that contribute to its value. The effect is assessed to be slight adverse rather than moderate as the construction activity would not greatly alter the relationship between LB203, LB204, LB212 and LB217 or the surrounding farmland which contribute to their value.	None	Temporary negligible	Temporary Slight adverse	The setting of the asset does not extend to the operational Project.	None	No change	Neutral
LB204	1111569	Sutton's Farmhouse	High	II	None	Minor construction activity for OHL restringing and establishment of associated utilities offline access routes would take place adjacent to the asset. This would not alter its relationship with neighbouring	None	Temporary negligible	Temporary slight adverse	The setting of the asset does not extend to the operational Project.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						buildings or the surrounding farmland that contribute to its value. The effect is assessed to be slight adverse rather than moderate as the construction activity would not greatly alter the relationship between LB203, LB204, LB212 and LB217 or the surrounding farmland which contribute to their value.							
LB205	1111576	Church of St Mary	High	I	None	Sited adjacent to the Order Limits along Brentwood Road, construction activity (utility diversions for multi-utility networks along Brentwood Road) would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery. However, this would not affect its relationship with the settlement of Chadwell St Mary or any of the other principal elements of its setting that contribute to its value.	None	Negligible	Temporary slight adverse	The setting of the asset does not extend to the operational project.	None	No change	Neutral
LB208	1111645	Biggin Farmhouse	High	II	None	The setting does not extend to the construction activity.	None	No change	Neutral	The setting does not extend to the operational Project.	None	No change	Neutral
LB210	1147501	Parkers Farmhouse	High	II	None	The setting does not extend to the construction activity.	None	No change	Neutral	The setting does not extend to the operational Project.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
LB211	1166282	Chadwell House	High	II	None	Sited adjacent to the Order Limits along Brentwood Road, construction activity (utility diversions for multi-utility networks along Brentwood Road) would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery.	None	Negligible	Temporary slight adverse	The setting of the asset does not extend to the operational Project.	None	No change	Neutral
LB212	1307175	Turners Farm	High	II	None	Minor construction activity for OHL restringing and establishment of associated utilities offline access routes would take place adjacent to the asset. This would not alter its relationship with neighbouring buildings or the surrounding farmland that contribute to its value. The effect is assessed to be slight adverse rather than moderate as the construction activity would not greatly alter the relationship between LB203, LB204, LB212 and LB217 or the surrounding farmland which contribute to their value.	None	Negligible	Temporary slight adverse	The setting of the asset does not extend to the operational Project.	None	No change	Neutral
LB213	1337061	Sleepers Farmhouse	High	II	None	Sited adjacent to the Order Limits along Brentwood Road, construction activity (utility diversions for multi-utility networks	None	Negligible	Temporary slight adverse	The setting of the asset does not extend to the operational Project.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						along Brentwood Road) would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery.							
LB216	1337086	Blankets Farmhouse	High	II	None	The setting does not extend to the construction activity.	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral
LB217	1337098	Weatherboarded Barn at Waltons Hall	High	II	None	Minor construction activity for OHL restringing and establishment of associated utilities offline access routes would take place adjacent to the asset. This would not alter its relationship with neighbouring buildings or the surrounding farmland that contribute to its value. The effect is assessed to be slight adverse rather than moderate as the construction activity would not greatly alter the relationship between LB203, LB204, LB212 and LB217 or the surrounding farmland which contribute to their value.	None	Negligible	Temporary slight adverse	The setting of the asset does not extend to the operational Project.	None	No change	Neutral
LB277	1111612	Former Granary now house north of Coppid Hall	High	II	None	The closest construction activity would be online construction access route along the existing A13 and Medebridge Road, which would not	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						change the setting this asset.							
LB285	1147159	Coppid Hall	High	II	None	The closest construction activity would be online construction access route along the existing A13 and Medebridge Road, which would not change the setting this asset.	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral
LB304	1337079	Europa Hotel	High	II	None	The closest construction activity would be online construction access route along the existing A13 and Medebridge Road, which would not change the setting this asset.	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral
LB32	1111540	Street Farmhouse	High	II	None	Setting is informed by the surrounding modern settlement of South Ockendon and does not extend to the Project.	None	No change	Neutral	Setting is informed by the surrounding modern settlement of South Ockendon and does not extend to the Project.	None	No change	Neutral
LB33	1111541	Church of St James	High	II*	None	Construction activity would cause small temporary changes to the setting of this asset by introducing additional noise, lighting and construction traffic along Coopers Shaw Road and Church Road (which would be used as main work construction secondary access routes) c. 180m to the east of the asset. Utility works would take place across the open land c.180m south of the asset, situated at the bottom of Hall Hill.	Good practice	Minor	Temporary slight adverse	The operational alignment (at Tilbury Viaduct) would be located c. 920m east of the asset. Parts of the operational alignment further to the south-east are likely to be distantly visible from the asset, but this will not harm its value.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						The Northern Tunnel Entrance Compound would be located c. 680m south-east of the asset. These works would not alter its relationship with West Tilbury or impede long-distance views to and from the church across the former Tilbury Marshes. The visual disturbance to the semi-rural setting of the asset would result in a minor impact. The minor impact is assessed to result in a slight adverse effect rather than moderate effect due to the scale and nature of the impacts and the fact that the primary elements of the setting that contribute to the value of the asset will not be harmed.							
LB34	1111544	Garden wall, two gate piers and Gate, and wicket gate attached to Orsett House	High	II	None	The relationship between the asset and the associated Orsett Hall would not be affected by construction activity and this activity would be screened by intervening vegetation.	None	No change	Neutral	The Project would be located beyond the setting of the asset.	None	No change	Neutral
LB35	1111554	Smithy Cottage	High	II	None	Setting is informed by the surrounding modern settlement of Linford and the adjacent roads (Princess Margaret and Muckingford Roads) and does not extend to the Project	None	No change	Neutral	Setting is informed by the surrounding modern settlement of Linford and the adjacent roads (Princess Margaret and Muckingford Roads) and does not extend to the Project	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
LB111	1393328	Bata Industrial Building Number 12	High	II	None	The construction activity would be located in the farmland to the west of the asset, changing the rural aspect of its setting. Construction would not affect the relationship between the asset and the associated settlement of East Tilbury, which is a crucial aspect that informs its value. The construction of the Project would not impact upon the value of these historic industrial building associated with East Tilbury.	Good practice	No change	Neutral	The Project would be distantly visible from the asset, but would not affect the relationship between it and East Tilbury. Some views towards the asset from the west may be interrupted by the main alignment, but would not be completely severed. The operation of the Project would not impact upon the value of these historic industrial building associated with East Tilbury.	None	No change	Neutral
LB115	1079879	Franks Farmhouse	High	II	None	The high value Grade II listed Franks Farmhouse (LB115) is sited approximately c. 55m west of the Order Limits. Construction activity for the A122 northbound link road and enlargement of the M25 would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery. This would result in a temporary impact of minor adverse magnitude and a slight adverse effect, which is assessed as not significant. The effect is	Good practice	Minor	Temporary slight adverse	The asset is located adjacent to the existing route of the M25. The Project would slightly increase the scale of the motorway infrastructure adjacent to this heritage asset, resulting in a minor impact. The effect is assessed as slight rather than moderate due to the low scale of change relative to the existing M25-adjacent setting of the asset.	To limit the land required adjacent to Franks Farmhouse (LB115) and the property of St Mary's Lane, a retaining wall rather than earthworks would be provided. Either soft landscaping would be provided to soften the visual impact of the structures or planted green walls would be provided (Design Principle S14.09).	Minor	Slight adverse

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						assessed is slight rather than moderate due to the scale of change in the context of the setting of the asset, located next to the existing M25.							
LB39	1111570	Thatched barn at Stifford Clays Farmhouse	High	II	None	The closest construction activity would be online construction access route along the existing A13 and Medebridge Road, which would not change the setting this asset.	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral
LB38	1111567	Greygoose Farmhouse	High	II	None	The asset is sited c. 90m to the south of Order Limits, between the A13 and Chadwell St Mary. Construction activity would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery to the north, east and more distantly to the south-east. This would result in a minor impact and a temporary slight adverse effect. The effect is assessed as minor rather than moderate as the rural setting of the asset has already been somewhat eroded by the presence of the A13 and encroachment of the Chadwell St Mary suburbs.	Good practice	Minor	Temporary slight adverse	The asset would experience a change to its setting as a result due to the establishment of the the A13/A1089/A122 junction in farmland c. 440m to the east of the asset.	None	Negligible	Slight adverse

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
LB40	1111574	Heath Cottage	High	II	None	Sited adjacent to the Order Limits construction activity would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery, from the construction of the main alignment, utility works and Hornsby Lane Utility Hub which would be located c. 300 to the east of the asset. The farmland immediately adjacent to the rear and south-east of the asset would not be altered. The effect is assessed as slight rather than moderate as the primary elements of the asset's setting that contribute to its value (its grounds and association with Hornsby Lane) would not be harmed.	Good practice	Minor	Temporary slight adverse	The Project would introduce further modern transport infrastructure into the semi-rural setting of this asset. The effect is assessed as slight rather than moderate as the primary elements of the asset's setting that contribute to its value (its grounds and association with Hornsby Lane) would not be harmed.	Earthworks and reinstatement of agricultural land	Minor	Slight adverse
LB42	1111577	Mill House	High	II	None	The asset is sited immediately to the north of the Order Limits on Muckingford Road. Construction activity including hedgerow removal on the south side of the road, the establishment of an online utilities access route and utility diversion works for multi-utility networks would	None	Minor	Temporary slight adverse	Establishment of an NMU route along the southern side of the Muckingford Road would not harm the value of the asset.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						result in temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery. The effect is assessed as slight rather than moderate as the historically-associated buildings and farmland to the west of the asset would not be harmed, and views southward across the Great Common Field would remain.							
LB44	1111592	Old Hall Farm House	High	II	None	The setting is informed by the surrounding farmland, which would not be affected by construction activity.	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral
LB45	1111608	Slades Hold Cottages	High	II	None	The asset is located within Baker Street, on the southern side of High Road which would be used as to an online construction access route. Utility diversions for multi-utility networks would also take place along High Road. This would introduce additional noise and visible construction activity into the asset's setting.	Good practice	Negligible	Temporary slight adverse	The operational Project would be located beyond the setting of the asset.	None	No change	Neutral
LB47	1111610	Orsett House	High	II*	None	Construction activity would be screened by intervening vegetation and would not affect the relationship between	None	No change	Neutral	The Project would be located beyond the setting of the asset.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						the asset and the grounds in which it is set which form the key aspect of its setting.							
LB41	1111575	Heath Place	High	II	None	The high-value Grade II listed "Heath Place" is located immediately to the south of the Order Limits. Other areas of the Order Limits are also located between 150m to 200m east, west and south of the asset. The Brentwood Road compound would be established c. 160m east of the asset, the Stanford Road Compound c. 290m to the west and Hornsby Lane Utility Hub c. 370m to the south. The main alignment would be constructed c. 200m south of the asset and multi-utility network works would take place immediately to the north of the asset. The visual and aural impact of construction, taking place within the rural setting of the asset that contributes to its value, is assessed to result in a temporary impact of moderate adverse magnitude and a moderate adverse effect, which is assessed as significant. The effect is assessed as moderate rather	Good practice	Moderate	Temporary moderate adverse	The high-value Grade II listed "Heath Place" (LB41) is located immediately to the south of the Order Limits, on the northern slope of an east-west dry valley. Other areas of the Order Limits are also located between 150m to 200m east, west and south of the asset. The operational alignment and associated false cutting earthwork banks would be located c. 200m south of the asset, at the bottom of the valley in which it is located. This would represent a large erosion of the remaining agricultural landscape around the asset, which has already been encroached upon by the A13 c. 550m to the north, the A1089 c. 900m to the west and suburban development on the fringes of Chadwell St Mary c. 600m to the south-east. This would result in the asset becoming largely "islanded" within a small surviving area of agricultural land with the main alignment in relatively close proximity. Overall, the operation of the Project would result in a permanent impact of moderate adverse magnitude and a moderate adverse effect which is significant. The effect is considered to be	Reinstatement of agricultural land used for temporary works	Minor	Slight adverse

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						than large due to the temporary nature of the impact and lack of physical harm to the asset.				slight rather than moderate due to the lack of physical harm to the asset and the fact that some of the rural land around the asset will be preserved, enabling its illustrative historical value as a former farmhouse to be preserved.			
LB48	1111623	Polwicks	High	II	None	Sited adjacent to the Order Limits, construction activity would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery into its setting. Church Road immediately south of the asset would be used as a Mains Work Construction Access Route (secondary access). The Northern Tunnel Entrance Compound would be located c. 155m south-east of the asset and Low Street Lane Utility Hub would be located c. 35m to the north. Construction of the main alignment (Tilbury Viaduct) would take place c. 250m east of the asset. The effect is considered to be moderate rather than large due to the temporary nature of the impact and the fact that the physical fabric of the	Good practice	Moderate	Temporary Moderate Adverse	The main alignment would be located approximately 250m east of the asset and would introduce additional noise and modern infrastructure including the Tilbury Viaduct into its setting. The operational noise change would be between 5db and 10db, a moderate adverse change in noise terms. The eastern side elevation of the building that faces the viaduct is largely windowless and so no principal views would be compromised. Lighting columns would also be present on Church Road from c. 50m east of the asset, changing the character of the semi-rural night-time setting. The curtilage and grounds of the asset would not be physically affected, nor would its relationship with Church Road, the hamlet of Low Street and settlement of West Tilbury, or the surrounding agricultural landscape in general. As a result the impact is assessed as minor and is assessed to result in a slight rather than a moderate adverse effect.	None	Minor	Slight adverse

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						building will not be harmed.							
LB5	1079868	Kilbro	High	II	None	The asset is located on the eastern side of the B186 within North Ockendon Conservation Area (CA4) and immediately east of the Order Limits which include the B186. The B186 would be used as a short-term online main construction access route and utility diversions for multi-utility networks would also take place within the road. This would introduce additional noise and visible construction activity into the asset's setting.	Good practice	Negligible	Temporary slight adverse	The operational Project would not impact upon any elements of the asset's setting that contribute to its value.	None	No change	Neutral
LB50	1111625	West Tilbury Hall	High	II	None	A mains work construction secondary access route would be situated along Coopers Shaw Road and Church Road c. 240m to the east of the asset. Utility works would take place across the open land c. 140m to the south-west of the asset, situated at the bottom of Hall Hill. The Northern Tunnel Entrance Compound would be located c. 750m south-east of the asset. These works would not alter its relationship with West Tilbury and the Church of St James	None	Minor	Temporary Slight Adverse	The operational alignment (at Tilbury Viaduct) would be located c. 990m east of the asset. Parts of the operational alignment further to the south-east could potentially be distantly visible from the asset, but this will not harm its value.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						nor or impede long-distance views across the former Tilbury Marshes. The visual disturbance to the semi-rural setting of the asset would result in a minor impact. This is assessed to be slight adverse rather than moderate as the construction activity would not greatly alter the relationship between LB50 and LB87 (Barn to north of West Tilbury Hall) and associated listed buildings in West Tilbury.							
LB49	1111624	Walnut Tree Cottage	High	II	None	Sited adjacent to the Order Limits, construction activity would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery to the setting. Church Road immediately north of the asset would be used as a Mains Work Construction Access Route (secondary access). The Northern Tunnel Entrance Compound would be located c. 165m south-east of the asset and Low Street Lane Utility Hub would be located c. 120m to the north-east. Utility	Good practice	Moderate	Temporary moderate adverse	The main alignment (Tilbury Viaduct) would be located approximately 375m east of the asset and would introduce additional noise and modern infrastructure into its setting. The noise change would be between 3db and 5db (a minor adverse change in noise terms). Lighting columns would be present on Church Road from 150m east of the asset. The curtilage and grounds of the asset would not be affected, nor would its relationship with Church Road, the hamlet of Low Street and settlement of West Tilbury, or the surrounding agricultural landscape in general. As a result the minor impact would result in a slight rather than a moderate adverse effect.	None	Minor	Slight adverse

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						works for multi-utility networks would take place c. 120m to the south-west and c. 135m south-east of the asset. Construction of the main alignment (Tilbury Viaduct) would take place c. 375m east of the asset. The effect is considered to be moderate rather than large due to the temporary nature of the impact and the fact that the physical fabric of the building will not be harmed.							
LB51	1111627	Kemps	High	II	None	Located in a rural area but close to the M25, the value of the asset would not be impacted upon by the construction of the Project.	None required	No change	Neutral	Located in a rural area but close to the M25, the asset would experience a minor beneficial change to its setting as a result of decreased traffic noise (between 3db and 5db reduction) resulting from the operation of Project.	None	Minor Beneficial	Slight Beneficial
LB52	1111630	Thatched barn at Whitfields	High	II	None	The high value Grade II listed "Whitfields" (LB60) and Grade II listed "Thatched Barn at Whitfields" (LB52) are sited at Baker Street to the north of Stifford Clays Road. The Stifford Clays Road Compound East would be located c. 170m and c. 110m west of the assets respectively. Construction of the main alignment would take place c. 260m and 210m west of the assets, with construction of the Stifford Clays	Good practice	Moderate	Temporary moderate adverse	The high value Grade II listed "Whitfields" (LB60) and Grade II listed "Thatched Barn at Whitfields" (LB52) are sited at Baker Street to the north of Stifford Clays Road. The operational alignment would be located c. 260m and c. 210m west of the assets respectively. While this would be visible to the north-west of the assets, their relationship with the agricultural land to the north would remain, as would their key relationships with one another and the other buildings forming the courtyard farmstead, and	None	Minor	Slight adverse

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						Road overbridge taking place in slightly closer proximity. Fen Lane to the east of the assets would be used as an online utilities access route and Stifford Clays Road to the south would be used a short-term online main works construction access route. The combination of these construction activities would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery.				with the settlement of Baker Street. The effect is assessed as slight rather than moderate due to the preservation of these key relationships.			
LB54	1111633	Kings Head Public House	High	II	None	None	None	No change	Neutral	The Project would be located beyond the setting of the asset.	None	No change	Neutral
LB55	1111634	The Bakery	High	II	None	The utility working areas would be located c. 645m east of the asset and the operational alignment (including the Tilbury Viaduct) would be constructed c. 985m east of the asset. While these activities may be distantly visible, they would not harm the aspects of the asset's setting that contribute to its value, such as the associated hamlet of West Tilbury and the surrounding agricultural land.	None	No change	Neutral	The operational alignment including the Tilbury Viaduct may be distantly visible c. 985m east of the asset, but this would not harm its value.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
LB53	1111631	The Wilderness	High	II	None	The Wilderness is sited adjacent to the Order Limits on the eastern side of Fen Lane within the settlement of Baker Street. Groundworks would take place along Fen Lane for multi-utility network diversions. The Stifford Clays Road Compound East would be located c. 215m north-west of the asset and the main alignment would be constructed c. 300m west of the asset. Construction of the main Project would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery. The effect is assessed as slight rather than moderate due to the temporary nature of the impact and the fact that the bulk of construction activity will take place at a remove from the asset.	Good practice	Minor	Temporary slight adverse	The asset is located within Baker Street and this aspect of its setting and its spatial relationship with other nearby historic buildings would not be harmed. While parts of the main alignment could be distantly visible across farmland to the north-west, this is not assessed to impact upon the value of the asset.	None	No change	Neutral
LB56	1111642	Mill House	High	II	None	The high value Grade II listed "Mill House" (LB56) is sited in Baker Street immediately to the south of Stifford Clays Road and the Order Limits. As such, construction activity would cause temporary changes, due to the	Good practice	Minor	Temporary slight adverse	The high-value Grade II listed "Mill House" (LB56) is located in Baker Street immediately to the south of Stifford Clays Road and the Order Limits. The operational alignment and associated earthworks would be located c. 170m to the south-west of the asset, although views in this direction are	None	Negligible	Slight adverse

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						A13/A1089/A122 Lower Thames Crossing junction construction and utility diversions for multi-utility networks, to the setting of this asset by introducing additional noise, lighting and visible construction machinery				somewhat restricted by vegetation in the grounds of the asset and it does not have a strong connection with the agricultural land within the Order Limits. Therefore, there would be a limited aural intrusion, although the noise levels around the asset would not be affected.			
LB58	1111644	Thatched Cottage	High	II	Would be demolished during construction to enable construction of the A13/A1089/Lower Thames Crossing junction and associated link roads.	N/A as asset would be completely removed during construction	Building recording (REAC Ref. CH001)	Major	Large adverse	N/A as asset would be completely removed during construction	N/A as asset would be completely removed during construction	N/A as asset would be completely removed during construction	N/A as asset would be completely removed during construction
LB59	1111649	Loft Hall	High	II	None	The setting is informed by the surrounding farmland, which would not be affected by construction activity.	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral
LB6	1079869	Russell Cottage	High	II	None	The asset is located on the eastern side of the B186 within North Ockendon Conservation Area (CA4) and immediately east of the Order Limits which include the B186. The B186 would be used as a short-term online main construction access route and utility diversions for multi-utility networks would also take place within the road. This would	Good practice	Negligible	Temporary slight adverse	The operational Project would not impact upon any elements of the asset's setting that contribute to its value.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						introduce additional noise and visible construction activity into the asset's setting.							
LB60	1146709	Whitfields	High	II	None	The high value Grade II listed "Whitfields" (LB60) and Grade II listed "Thatched Barn at Whitfields" (LB52) are sited at Baker Street to the north of Stifford Clays Road. The Stifford Clays Road Compound East would be located c. 170m and c. 110m west of the assets respectively. Construction of the main alignment would take place c. 260m and 210m west of the assets, with construction of the Stifford Clays Road overbridge taking place in slightly closer proximity. Fen Lane to the east of the assets would be used as an online utilities access route and Stifford Clays Road to the south would be used a short-term online main works construction access route. The combination of these construction activities would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible	Good practice	Moderate	Temporary moderate adverse	The high value Grade II listed "Whitfields" (LB60) and Grade II listed "Thatched Barn at Whitfields" (LB52) are sited at Baker Street to the north of Stifford Clays Road. The operational alignment would be located c. 260m and c. 210m west of the assets respectively. While this would be visible to the north-west of the assets, their relationship with the agricultural land to the north would remain, as would their key relationships with one another and the other buildings forming the courtyard farmstead, and with the settlement of Baker Street. The effect is assessed as slight rather than moderate due to the preservation of these key relationships.	None	Minor	Slight adverse

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						construction machinery.							
LB61	1146717	Poplars Farmhouse	High	II	None	The asset is sited to the south of Green Lane. The Order Limits is located directly adjacent to the asset along Green Lane and also in open land c. 50m to the south. Utility diversion works for multi-utility networks would take place along Green Lane and further utility diversions for gas networks would take place in the land to the south. This construction activity would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery. This would affect its relationship with the arable fields that inform its setting. The effect is assessed as slight rather than moderate as the majority of the surrounding farmland and the asset's associations with the adjacent farm buildings would not be impacted upon.	Good practice	Minor	Temporary slight adverse	The Project would be located beyond the setting of the asset.	None	No change	Neutral
LB62	1146758	Granary to north east of Manor Farmhouse	High	II	None	The utility working areas would be located c. 560m east of the asset and the operational alignment (including	None	No change	Neutral	The operational alignment including the Tilbury Viaduct would be distantly visible c. 870m east of the asset, but this would not harm its value.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						the Tilbury Viaduct) would be constructed c. 870m east of the asset. While these activities would be distantly visible, they would not harm the aspects of the asset's setting that contribute to its value, such as the hamlet of West Tilbury, Manor Farmhouse and the surrounding agricultural land.							
LB64	1147431	Former Gateway at Groves Barns	High	II	None	Multi-utility network diversions immediately to the north of the asset and construction main alignment approximately 190m to the south would not harm the value of this gateway.	Good practice	No change	Neutral	The setting of the asset does not extend to the operational Project.	None	No change	Neutral
LB66	1147796	Buckland	High	II	None	Sited adjacent to the Order Limits, construction activity would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery in northern tunnel entrance compound, Station Road compound and for construction of the main alignment including the Tilbury Viaduct and the large junction to the south. Utility works for multi-utility networks would also take place in close	Good practice	Moderate	Temporary moderate adverse	The setting of the asset to the south-west and west would be greatly altered from an open landscape to road infrastructure including a viaduct and junction. This includes the principal view south-west across the Tilbury Marshes (although this has been previously eroded by vegetation within the grounds and industrial/waste activity on the former marshes). The noise levels would also be greater than 10db, a major adverse change in noise terms. This would result in a minor impact to the value of this asset which is assessed to result in a slight rather than moderate adverse impact,	None	Minor	Slight adverse

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						proximity. Overall this will result in a moderate impact. The effect is considered to be moderate rather than large due to the temporary nature of the impact and the lack of physical harm to the asset or its associated grounds.				given the minor contribution that the agricultural land makes to its overall value.			
LB67	1147812	Little Wellhouse	High	II	None	The asset is sited immediately adjacent to the Order Limits, between the A13 and Chadwell St Mary., Construction activity would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery to the east and west. This would result in a minor impact and a temporary slight adverse effect. The effect is assessed as minor rather than moderate as the rural setting of the asset has already been somewhat eroded by the presence of the A13 and encroachment of the Chadwell St Mary suburbs.	Good practice	Minor	Temporary slight adverse	The asset would experience a change to its setting as a result due to the establishment of the A13/A1089/A122 junction in farmland c. 440m to the east of the asset.	None	Negligible	Slight adverse
LB69	1183610	Church of St Mary Magdalene	High	I	None	The asset is located within North Ockendon Conservation Area (CA4) immediately east of the Order	Good practice	Minor	Temporary moderate adverse	The operational alignment and associated earthworks would be located c. 320m to the west of the asset. While road infrastructure in the	None	Minor	Slight adverse

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						Limits and c. 350m east of the M25. Construction activity for the A122 Lower Thames Crossing/M25 junction, including the construction of the M25 Compound c. 270m to the south and utility working areas immediately to the west would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery. The effect is assessed as moderate rather than slight due to the extensive nature of the construction activity.				form of the M25 is already located within the setting of the asset, this would be brought closer which would impact upon the rural landscape that makes a minor contribution to the aesthetic value of the asset. The Project would not harm the Conservation Area setting of the asset or alter its relationship with the other buildings in the village. For these reasons, the effect is assessed as slight rather than moderate.			
LB76	1224103	Building 13, Bata Factory	High	II	None	The construction of the Project would not impact upon elements of the setting of the asset that contribute to its value.	None required	No change	Neutral	The Project could be distantly visible from the asset, but this would not impact upon elements of the setting of the asset that contribute to its value.	None required	No change	Neutral
LB7	1079870	The Forge	High	II	None	The asset is located on the western side of the B186 within North Ockendon Conservation Area (CA4) and immediately east of the Order Limits which include the B186. The B186 would be used as a short-term online main construction access route and utility diversions for multi-utility networks	Good practice	Negligible	Temporary slight adverse	The operational Project would not impact upon any elements of the asset's setting that contribute to its value.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						would also take place within the road. This would introduce additional noise and visible construction activity into the asset's setting.							
LB70	1224054	2, Bata Avenue	High	II	None	The construction of the Project would not impact upon elements of the setting of the asset that contribute to its value.	None required	No change	Neutral	The operation of the Project would not impact upon elements of the setting of the asset that contribute to its value.	None required	No change	Neutral
LB71	1224055	4 And 6, Bata Avenue	High	II	None	The construction of the Project would not impact upon elements of the setting of the asset that contribute to its value.	None required	No change	Neutral	The operation of the Project would not impact upon elements of the setting of the asset that contribute to its value.	None required	No change	Neutral
LB72	1224058	12 And 14, Bata Avenue	High	II	None	The construction of the Project would not impact upon elements of the setting of the asset that contribute to its value.	None required	No change	Neutral	The operation of the Project would not impact upon elements of the setting of the asset that contribute to its value.	None required	No change	Neutral
LB73	1224059	24 And 26, Bata Avenue	High	II	None	The construction of the Project would not impact upon elements of the setting of the asset that contribute to its value.	None required	No change	Neutral	The operation of the Project would not impact upon elements of the setting of the asset that contribute to its value.	None required	No change	Neutral
LB74	1224061	32 And 34, Bata Avenue	High	II	None	The construction of the Project would not impact upon elements of the setting of the asset that contribute to its value.	None required	No change	Neutral	The operation of the Project would not impact upon elements of the setting of the asset that contribute to its value.	None required	No change	Neutral
LB75	1224101	28 And 30, Bata Avenue	High	II	None	The construction activity would be located in the farmland to the west of the asset and would not affect the relationship between	Good practice	Negligible	Temporary slight adverse	The Project would not affect the relationship between the asset and East Tilbury which is a crucial aspect of its setting.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						the asset and the associated settlement of East Tilbury, which is a crucial aspect of its setting.							
LB86	1308865	Kemps Cottage	High	II	None	Located in a rural area but close to the M25, the value of the asset would not be impacted upon by the construction of the Project.	None required	No change	Neutral	Located in a rural area but close to the M25, the asset would experience a minor beneficial change to its setting as a result of decreased traffic noise (between 3db and 5db reduction) resulting from the operation of Project. The effect is assessed as slight rather than moderate as tranquility makes only a slight contribution to the overall value of the asset.	None	Minor Beneficial	Slight Beneficial
LB77	1252711	Farmyard wall to former North Ockendon Hall	High	II	None	The asset is located within the settlement of North Ockendon and its relationship with the village and the site of the former hall would not be altered.	None	No change	Neutral	The asset is located within the settlement of North Ockendon and its relationship with the village and the site of the former hall would not be altered.	None	No change	Neutral
LB8	1079871	Castle Cottages	High	II	None	The asset is located on the western side of the B186 within North Ockendon Conservation Area (CA4) and immediately east of the Order Limits which include the B186. The B186 would be used as a short-term online main construction access route and utility diversions for multi-utility networks would also take place within the road. This would introduce additional noise and visible construction activity	Good practice	Negligible	Temporary slight adverse	The operational Project would not impact upon any elements of the asset's setting that contribute to its value.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						into the asset's setting.							
LB80	1266987	8 And 10, Bata Avenue	High	II	None	The construction of the Project would not impact upon elements of the setting of the asset that contribute to its value.	None required	No change	Neutral	The operation of the Project would not impact upon elements of the setting of the asset that contribute to its value.	None required	No change	Neutral
LB81	1266988	16 And 18, Bata Avenue	High	II	None	The construction of the Project would not impact upon elements of the setting of the asset that contribute to its value.	None required	No change	Neutral	The operation of the Project would not impact upon elements of the setting of the asset that contribute to its value.	None required	No change	Neutral
LB82	1300500	Garden walls of the former North Ockendon Hall	High	II	None	The asset is located within the settlement of North Ockendon and its relationship with the village and the site of the former hall would not be altered.	None	No change	Neutral	The asset is located within the settlement of North Ockendon and its relationship with the village and the site of the former hall would not be altered.	None	No change	Neutral
LB83	1308454	Post House	High	II	None	No change	None	No change	Neutral	The Project would be located beyond the setting of the asset.	None	No change	Neutral
LB85	1308840	Well House	High	II	None	The utility working areas would be located c. 610m east of the asset and the operational alignment (including the Tilbury Viaduct) would be constructed c. 960m east of the asset. While these activities may be distantly visible, they would not harm the aspects of the asset's setting that contribute to its value, such as the associated hamlet of West Tilbury and the surrounding agricultural land.	None	No change	Neutral	The operational alignment including the Tilbury Viaduct may be distantly visible c. 985m east of the asset, but this would not harm its value.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
LB90	1337058	Marshall's Cottages	High	II*	None	Construction activity would take place within the Great Common Field c. 400m north and north-west of the asset for multi-utility network works and subsequently for the establishment of an NMU route. This would introduce visible construction activity within part of the historic rural setting of the asset that contributes to its value.	Good practice	Minor	Temporary slight adverse	The operational alignment would be largely screened from the asset by intervening buildings and trees and is not located on land that makes a contribution to the value of the asset. However, an NMU route would be present along the northern edge of the Great Common Field which represents a very slight erosion of its historic character.	None	Negligible	Slight adverse
LB87	1308889	Barn to north of West Tilbury Hall	High	II	None	A mains work construction secondary access routes would be situated along Coopers Shaw Road and Church Road c. 240m to the east of the asset. Utility works would take place across the open land c. 150m to the south-west of the asset, situated at the bottom of Hall Hill. The Northern Tunnel Entrance Compound would be located c. 760m south-east of the asset. These works would not alter its relationship with West Tilbury and the Church of St James nor or impede long-distance views across the former Tilbury Marshes. The visual disturbance to the semi-rural setting of the asset would	None	Minor	Temporary slight adverse	The operational alignment (at Tilbury Viaduct) would be located c. 990m east of the asset. Parts of the operational alignment further to the south-east could potentially to be distantly visible from the asset, but this will not harm its value.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						result in a minor impact. The effect assessed to be slight adverse rather than moderate as the construction activity would not alter the relationship between LB87 and LB50 (West Tilbury Hall) and associated listed buildings in West Tilbury.							
LB88	1308981	Weatherboarded Barn at Bareham's Boarding Kennels	High	II	None	The closest construction activity would be access along the existing track to ecological mitigation areas located to the east, which would not alter the asset's setting. The main alignment would be located outside the setting of the asset.	None	No change	Neutral	The main alignment would be located outside the setting of the asset.	None	No change	Neutral
LB89	1337056	1 And 2 Grays Corner Cottages	High	I	Would be demolished during construction to enable construction of the A13/A1089/Lower Thames Crossing junction and associated link roads.	N/A as the asset would be completely removed during construction	Building recording (REAC Ref. CH001)	Major	Large adverse	N/A as the asset would be completely removed during construction	N/A as the asset would be completely removed during construction	N/A as the asset would be completely removed during construction	N/A as the asset would be completely removed during construction
LB9	1079872	Garden walls entrance gate and brick piers to former Stubbers House	High	II	None	The setting does not extend to the construction activity.	None	No change	Neutral	The main alignment would be located outside the setting of the asset.	None	No change	Neutral
LB94	1337091	High House	High	II	None	Sited c. 275m west of the Order Limits and a utilities online access route,	None	Negligible	Temporary slight adverse	The high-value Grade II listed "High House" (LB94) would be located c. 750m south-west of the	LE2.2 Scrub Woodland Planting	Minor	Slight adverse

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						construction activity would cause small temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery to the rural setting of the asset, although largely not in close proximity.				operational alignment. Given the distance and the relatively flat topography around the asset, the visual intrusion to its setting would not be great. However, the noise levels at the asset would increase by more than 10db, a major adverse impact in noise terms. However, in heritage terms the elements of the assets setting which make the greatest contributions to its value will not be harmed and it should be noted that a quarry is located immediately to the south-east of the asset. The operation of the Project would result in a permanent impact of minor adverse magnitude and a slight adverse effect which is not significant. The effect is assessed as slight rather than moderate due to the limited scale of the impact and the majority of the element's of the asset's setting that contribute to its value would be preserved.			
LB91	1337081	Stifford Clays Farmhouse	High	II	None	The closest construction activity would be online construction access route along the existing A13 and Medebridge Road, which would not change the setting of this asset.	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral
LB92	1337089	Manor Farmhouse	High	II	None	The utility working areas would be located c. 580m east of the asset and the operational alignment (including	None	No change	Neutral	The operational alignment including the Tilbury Viaduct would be distantly visible c. 880m east of the asset, but this would not harm its value.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						the Tilbury Viaduct) would be constructed c. 890m east of the asset. While these activities would be distantly visible, they would not harm the aspects of the asset's setting that contribute to its value, such as the associated barn and the surrounding agricultural land.							
LB93	1337090	The Cottages	High	II	None	None	None	No change	Neutral	The Project would be located beyond the setting of the asset.	None	No change	Neutral
LB65	1147701	Moat bridge and gatehouse at South Ockendon Hall (part of SM2)	High	II	See SM2	See SM2	See SM2	See SM2	See SM2	See SM2	See SM2	See SM2	See SM2
LB95	1337095	Royal Oak Inn	High	II	None	Setting is informed by the surrounding modern settlement of South Ockendon and does not extend to the Project.	None	No change	Neutral	Setting is informed by the surrounding modern settlement of South Ockendon and does not extend to the Project.	None	No change	Neutral
LB96	1337096	Murrells Cottages	High	II	Would be demolished during construction to enable construction of the A13/A1089/Lower Thames Crossing junction and associated link roads.	N/A as the asset would be completely removed during construction	Building recording (REAC Ref. CH001)	Major	Large adverse	N/A as the asset would be completely removed during construction	N/A as the asset would be completely removed during construction	N/A as the asset would be completely removed during construction	N/A as the asset would be completely removed during construction
LB98	1337127	1 and 2 Malting Cottages	High	II	None	The setting is informed by the surrounding farmland, which would not be	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral

Project ID	Source reference	Name	Value	Grade	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
						affected by construction activity.							
LB333	1197232	Blue House Farmhouse	High	II	None	Setting is informed by the surrounding rural land (now used as a golf course) and location on Magpie Lane. This setting does not extend to the Project.	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral
LB334	1197204	Boyles Court Cottages	High	II	None	Setting is informed by its proximity to the other Boyles Court Cottage (LB336), location on Dark Lane and immediate rural land. This setting does not extend to the Project.	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral
LB335	1208263	Pump Farmhouse	High	II	None	Setting is informed by the surrounding rural land, principally formed of Holden's Wood. This setting does not extend to the Project.	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral
LB336	1280225	Boyles Court Cottages	High	II	None	Setting is informed by its proximity to the other Boyles Court Cottage (LB334), location on Dark Lane and immediate rural land. This setting does not extend to the Project.	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral
LB337	1293155	Apple Tree Cottage	High	II	None	Setting is informed by its location within a secluded plot of land, sat back from Warley Road.	None	No change	Neutral	The setting does not extend to the Project.	None	No change	Neutral
LB151	1208575	The Squirrels	High	II	None	None	None	No change	Neutral	Planting of trees and establishment of glades within the former parkland areas (currently in agricultural use) would not impact upon the value of the asset	None	No change	Neutral

Table 1.5 Non-designated built heritage assessment table: North of the River Thames

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
2	MEX1010726	Boundary stone	Low	None	Construction activity would not impact upon the elements of the setting of the asset that contribute to its value.	None	No change	Neutral	The Project would not impact upon the elements of the setting of the asset that contribute to its value.	None	No change	Neutral
57	MEX1035334	Linford Pumping Station	Low	None	The asset is located within the Order Limits to enable a utility connection to the pumping station. This would introduce additional temporary noise and construction activity but would not alter the purpose of the asset or its relationship with the adjacent settlement.	Good practice	Minor	Slight adverse	The Project would be located beyond the setting of the asset.	None	No change	Neutral
59	MEX1035591	Old Methodist Chapel	Negligible	None	Construction activity at the northern tunnel construction compound may be distantly visible, but this would not impact upon the elements of the setting of the asset that contribute to its value.	None	No change	Neutral	The Project would not impact upon the elements of the setting of the asset that contribute to its value.	None	No change	Neutral
89	MEX1037623	Coalhouse Wharf and Coastguard Station	Medium	None	Construction activity would not alter the relationship between the asset and the river or Coalhouse Fort and would therefore not affect its setting.	None	No change	Neutral	The Project would be located beyond the setting of the asset.	None	No change	Neutral
90	MEX1037624	Sea-wall, Coalhouse Arable	Medium	A very small section of the asset may be physically impacted upon by Flood Alleviation Measures: Proposed Coalhouse Point Wetland Flow Control	Construction activity would not alter the relationship between the asset and the River Thames and Tilbury Marshes and would therefore not affect its setting.	Archaeological Excavation and Recording	No change	Neutral	The Project would not affect the relationship between the asset, the River Thames and the area of the Tilbury Marshes in close proximity although it would reduce the area of the Tilbury Marshes further afield with the introduction of the main alignment and associated earthworks to the	Reinstatement of some historic field boundaries within the setting of the asset (LE6.2 Banks and Ditches).	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
									south of the portal. Ecological mitigation immediately to the north of the asset (LE6.41 Marsh and Wet Grassland - Coastal Grazing Marsh and LE6.12 Water Bodies and Associated Plants - Shallow Scrape) would not impact upon its value and would include measures to reinstate elements of historic field boundary drainage ditches which would have a beneficial impact. Overall these negative and positive impacts would balance one another, resulting in a neutral effect.			
116	MEX1040595	Orsett Post Mill Roundhouse	Medium	None	Construction of utility diversions to the west and south would introduce additional noise, lighting and visible construction activity and machinery to the setting of this asset.	Good practice	Minor	Slight adverse	The Project would be located beyond the setting of the asset.	None	No change	Neutral
314	MEX31812	Pillbox, S of Tilbury Power Station	Medium	None	Construction activity would not alter the relationship between the asset and the river or associated assets and would therefore not affect its setting.	None	No change	Neutral	The Project would not harm any elements of the asset which contribute to its setting and would not obscure potential sightlines with associated defence features in the wider area.	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
321	MEX31820	Pillbox, Thames Foreshore, East Tilbury Marshes	Low	None	Construction activity would not alter the relationship between the asset and the river or other Second World War defence assets.	None	No change	Neutral	While elements of the Project would be distantly visible (foreshore outfall to the south-west, new contoured landscape to the west) this would not harm the asset's relationship with the River Thames or other Second World War defence assets. The Order Limits in immediate proximity to the asset would be changed large prairie fields to LE6.41 Marsh and Wet Grassland - Coastal Grazing Marsh and LE6.12 Water Bodies and Associated Plants - Shallow Scrape. This ecological mitigation would include LE6.2 Banks and Ditches which would restore part of the former reclaimed marshland field system which was present when the asset was built. This would have a beneficial impact which would balance out any adverse impact from the visibility of the new contoured	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
									landscape further west.			
535	060460/00/00	Church Lane, North Ockendon, School House	Low	None	Construction of utility diversions to the west and south would introduce additional noise, lighting and visible construction activity and machinery to the setting of this asset but would not affect its relationship with the other buildings in North Ockendon	Good practice	Minor	Slight adverse	The Project would be located beyond the setting of the asset.	None	No change	Neutral
575	211323/02/00	Church Lane, North Ockendon, Outbuilding	Low	None	Construction activity would not affect the relationship between the asset and the associated buildings in North Ockendon that inform its setting.	None	No change	Neutral	The Project would be located beyond the setting of the asset.	None	No change	Neutral
577		St Marys Lane, Upminster, Barn	Low	None	Sited adjacent to the Order Limits. Construction activity for the A122 northbound link road would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery to its setting, but would not impact its relationship with Franks Farmhouse and the other associated buildings.	Good practice	Minor	Slight adverse	The asset is located adjacent to the existing route of the M25. The Project would increase the scale of the road infrastructure adjacent to this heritage asset, increasing the amount of intrusive modern elements in its setting that prevent an understanding of its original rural locations.	Soft landscaping or planted green walls	Minor	Slight adverse
581	MLO100557	North Ockendon [Second World War heavy anti-aircraft battery]	Negligible	None	The setting does not extend to the construction activity.	None	No change	Neutral	The Project would be located beyond the setting of the asset.	None	No change	Neutral
622	MLO84865	Large Barn to north east of Franks Farmhouse	Medium	None	Sited adjacent to the Order Limits. Construction activity for the A122 northbound link road would cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible	Good practice	Minor	Slight adverse	The asset is located adjacent to the existing route of the M25. The Project would increase the scale of the road infrastructure	Soft landscaping or planted green walls	Minor	Slight adverse

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
					construction machinery to its setting, but would not impact its relationship with Franks Farmhouse and the other associated buildings.				adjacent to this heritage asset, increasing the amount of intrusive modern elements in its setting that prevent an understanding of its original rural locations.			
692	502074	Tilbury Town Station	Low	None	The closest construction works would be located within the existing road or comprise use of St Andrews Road as an online construction access route. The construction activity would not alter the relationship between the station, railway and town.	None	No change	Neutral	The Project would not be located within the setting of the asset.	None	No change	Neutral
693	502269	East Tilbury Station	Low	None	The use of St Andrew's Road as a long-term online main construction access route would not impact upon the value of the railway station, which is located within an urban setting surrounded by infrastructure with an industrial site immediately to the south (Tilbury Docks)	None	No change	Neutral	The Project would be located beyond the setting of the asset.	None	No change	Neutral
737	1368964	London Tilbury and Southend Railway	Low	None	The asset would cross the Order Limits and construction activity would take place in close proximity to construct the viaduct over the railway. This would not affect the relationship between the railway and the towns on the line but would introduce temporary noise, lighting and construction activity into its setting.	None	Minor	Slight adverse	The Project would be located within the setting of the asset but would not affect its operation or relationship with the towns on the line.	None	Negligible	Neutral
738	1368966	Barking and Pitsea Railway	Low	None	The asset would cross the Order Limits and construction activity would take place in close proximity. This would not affect the relationship between the railway and the	None	Negligible	Slight adverse	The Project would be located within the setting of the asset but would not affect its operation or relationship with	None	Negligible	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
					towns on the line but would introduce temporary noise, lighting and construction activity into its setting.				the towns on the line.			
739	1368976	Upminster and Grays Branch Railway	Low	None	The asset would cross the Order Limits and construction activity would take place in close proximity. This would not affect the relationship between the railway and the towns on the line but would introduce temporary noise, lighting and construction activity into its setting.	None	Minor	Slight adverse	The Project would be located within the setting of the asset but would not affect its operation or relationship with the towns on the line.	None	Negligible	Neutral
1830	LTC identified	Bowaters Farm surviving as barns with courtyard arrangement	Low	None	The northern tunnel entrance compound would be located c. 50m to the south-west of the asset and would introduce additional noise, lighting and construction activity into the setting.	Good practice	Moderate	Temporary slight adverse	The Project would bisect the formerly open landscape to the south-west of the asset, in an area that makes a minor contribution to its value. The operational noise would change by 5db - 10db (a moderate adverse change in noise terms). This is considered to result in an overall minor magnitude of impact to the value of the asset. The effect would be slight rather than neutral due to the scale of the change to the setting.	None	Minor	Slight adverse
4145	1368345	Great Eastern Railway	Low	None	The asset would cross the Order Limits but construction activity would be located on the existing M25 and therefore cause no change to setting.	None	No change	Neutral	There would be no change to the setting of the asset.	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
4153	EGL479314	Estate House, Ockendon Road, Upminster, RM14 3QR	Low	The asset would be demolished to enable construction of the A122 Lower Thames Crossing/M25 junction. Following the mitigation through building recording (REAC Ref. CH001; AMS-OWSI No. 2) the total removal of this asset would result in a permanent impact of major adverse magnitude, and a moderate adverse effect, which is assessed as significant. The effect is assessed as moderate rather than slight, as recording of the building is not assessed to reduce the impact below moderate.	N/A due to physical removal during construction	Historic Building Recording (REAC Ref. CH001; AMS-OWSI No. 2)	Major	Permanent moderate adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction
4154	NGL81767	1 Bridge Cottages, Ockendon Road, Upminster, RM14 3QP	Low	The asset would be demolished to enable construction of the A122 Lower Thames Crossing/M25 junction. Following the mitigation through building recording (REAC Ref. CH001; AMS-OWSI No. 2) the total	N/A due to physical removal during construction	Historic Building Recording (REAC Ref. CH001; AMS-OWSI No. 2)	Major	Permanent moderate adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
				removal of this asset would result in a permanent impact of major adverse magnitude, and a moderate adverse effect, which is assessed as significant. The effect is assessed as moderate rather than slight, as recording of the building is not assessed to reduce the impact below moderate.								
4155	EGL341509	2 Bridge Cottages, Ockendon Road, Upminster, RM14 3QP	Low	The asset would be demolished to enable construction of the A122 Lower Thames Crossing/M25 junction. Following the mitigation through building recording (REAC Ref. CH001; AMS-OWSI No. 2) the total removal of this asset would result in a permanent impact of major adverse magnitude, and a moderate adverse effect, which is assessed as significant. The effect is assessed as moderate rather than slight, as recording of	N/A due to physical removal during construction	Historic Building Recording (REAC Ref. CH001; AMS-OWSI No. 2)	Major	Permanent moderate adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
				the building is not assessed to reduce the impact below moderate.								
4156	EX41084	3 Bridge Cottages, Ockendon Road, Upminster, RM14 3QP	Low	The asset would be demolished to enable construction of the A122 Lower Thames Crossing/M25 junction. Following the mitigation through building recording (REAC Ref. CH001; AMS-OWSI No. 2) the total removal of this asset would result in a permanent impact of major adverse magnitude, and a moderate adverse effect, which is assessed as significant. The effect is assessed as moderate rather than slight, as recording of the building is not assessed to reduce the impact below moderate.	N/A due to physical removal during construction	Historic Building Recording (REAC Ref. CH001; AMS-OWSI No. 2)	Major	Permanent moderate adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
4157	EX72932	4 Bridge Cottages, Ockendon Road, Upminster, RM14 3QP	Low	The asset would be demolished to enable construction of the A122 Lower Thames Crossing/M25 junction. Following the mitigation through building recording (REAC Ref. CH001; AMS-OWSI No. 2) the total removal of this asset would result in a permanent impact of major adverse magnitude, and a moderate adverse effect, which is assessed as significant. The effect is assessed as moderate rather than slight, as recording of the building is not assessed to reduce the impact below moderate.	N/A due to physical removal during construction	Historic Building Recording (REAC Ref. CH001; AMS-OWSI No. 2)	Major	Permanent moderate adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction
4158	NGL155428	Bankes House, Ockendon Road, Upminster, RM14 3QJ	Low	None	Construction activity for utility diversions and the Ockendon Road overbridge would introduce additional noise, lighting and visible construction machinery into the setting of this asset.	Good practice	Minor	Slight adverse	There would be little change to the asset's setting during operation as the existing M25 would screen the new infrastructure.	None	No change	Neutral
4159	EX209093	1 and 2 Whitfield Cottages, Stifford Clays Road, Grays, RM16 3NB	Low	Asset would be demolished to enable construction of the A122 and the Stifford Clays Road overbridge	N/A	Building recording	Major	Moderate adverse	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
4163	EX61765	Brook Farm, Linford, Orsett, Grays, RM16 3DT	Low	On the basis of the noise assessment this asset qualifies for noise insulation, which would cause a physical impact to the building. On the basis of current information the windows and doors and modern and therefore their replacement would not impact the value of the asset.	Construction activity for the main alignment would be located adjacent to and surrounding the asset, which would sever it from the rural landscape in which it is currently located and which makes a contribution to its value.	Building recording	Moderate	Slight adverse	The main alignment would be located adjacent to the asset, which would sever it from the rural landscape in which it is currently located and which makes a contribution to its value.	None	Moderate	Slight adverse
4164	XX188	Hobletts Farm, Green Lane, Orsett, Grays, RM16 3An	Low	None	Construction activity would be located adjacent to the asset and would introduce additional noise, lighting and visible construction machinery into the currently peaceful rural setting.	Good practice	Minor	Slight adverse	The main alignment would be located approximately 400m west of the asset, which would introduce modern infrastructure into the currently peaceful rural setting.	None	Minor	Slight adverse
4165	EX15025	Manor Farm, including buildings adjoining farmhouse, Ockendon Road, Upminster, RM14 2TZ	Low	None	Construction activity would be located adjacent to the asset and would introduce additional noise, lighting and visible construction machinery into the currently peaceful rural setting.	Good practice	Minor	Slight adverse	The main alignment would be separated from the asset by the existing railway but would introduce additional modern infrastructure into the setting of the asset.	None	Negligible	Slight adverse
4590	MEX1049438	Manor House Farm, Bulphan	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
4613	MEX1032847	Poorhouse, Headley Common, Great Warley	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
4775	LTC identified	Larwood Cottages	Low	The asset would be demolished to enable	N/A due to physical removal during construction	Historic Building Recording	Major	Permanent moderate adverse	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
	from multiple data sources			construction of the A122 Lower Thames Crossing/M25 junction. Following the mitigation through building recording (REAC Ref. CH001; AMS-OWSI No. 2) the total removal of this asset would result in a permanent impact of major adverse magnitude, and a moderate adverse effect, which is assessed as significant. The effect is assessed as moderate rather than slight, as recording of the building is not assessed to reduce the impact below moderate.		(REAC Ref. CH001; AMS-OWSI No. 2)			during construction	during construction	during construction	during construction
4776	LTC identified from multiple data sources	The Rosery	Low	The asset would be demolished to enable construction of the A122 Lower Thames Crossing/M25 junction. Following the mitigation through building recording (REAC Ref. CH001; AMS-OWSI No. 2) the total removal of this asset would result in a permanent	N/A due to physical removal during construction	Historic Building Recording (REAC Ref. CH001; AMS-OWSI No. 2)	Major	Permanent moderate adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
				impact of major adverse magnitude, and a moderate adverse effect, which is assessed as significant. The effect is assessed as moderate rather than slight, as recording of the building is not assessed to reduce the impact below moderate.								

Table 1.6 Non-designated Archaeology within the Order Limits assessment table: North of the River Thames

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect	Completely Removed?	Utility impact only?	Landscape impact only?
3572	Lower Thames Crossing Archaeological Trial Trenching	Bronze Age features	Medium	The asset would be completely removed during the construction of the main alignment and associated earthworks.	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent Slight Adverse	N/A due to physical removal during construction.	N/A due to physical removal during construction.	N/A due to physical removal during construction.	N/A due to physical removal during construction.	Y	N	N
3840	LTC ATT WSI H trenches 212, 215, 216, 27, 218, 219, 220	Site of Middle to Late Roman activity (200-400AD)	Low	The asset would be completely removed as a result of the mains works area, construction the main alignment, overbridge and associated earthworks.	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent Slight adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	N
3952	LTC ATT WSI P, trench 281	Mesolithic / Neolithic flint assemblage	Medium	A large part of this asset would be removed due to location within main works construction area although some archaeological deposits may survive	None	Archaeological excavation and recording	Minor	Permanent slight adverse	Adverse change to its setting due to the presence of the main alignment (Mardyke Viaduct)	None	Moderate	Permanent Moderate adverse	N	N	N
3568	LTC ATT WSI C trench 42	Isolated ditch dated to the Late Bronze Age to early Iron Age	Low	Potential to be removed by utilities and construction working area, should the ditch continue into the Order Limits.	Slight change in setting and removal of potential associated remains located within Order Limits. Open space will remain within area	Archaeological excavation and recording. Preservation in situ of remains located outside Order Limits, where asset was identified.	Minor	Slight adverse	Slight change due to change in agricultural setting to the south, however asset will benefit from buffer and space omitted from Order Limits,	None	Minor	Slight adverse	N	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect	Completely Removed?	Utility impact only?	Landscape impact only?
					outside of Order Limits and around Heath Place.				to maintain some agricultural land.						
3599	LTC ATT WSI E trench 64	Findspot of a Late Mesolithic backed flint bladelet redeposited in colluvium along with Bronze Age and Iron Age pottery	Low	This asset would be completely removed by the mains works area and utility diversions for multi-utility networks.	N/A due to physical removal during construction	Archaeological excavation and recording	Moderate	Permanent Slight Adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	N
3624	LTC ATT WSI M trench 78	A ringditch with a Bronze Age or Early Iron Age pottery vessel within the ditch, West of Nevilles Farm	Medium	The asset is located within the mains works area and as a result would be completely removed.	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent Moderate adverse	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	Y	N	N

Table 1.7 Non-designated Archaeology outside the Order Limits assessment table: North of the River Thames

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
8	MEX1031055	Cropmarks	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
10	MEX1031234	East of the Decoy	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
14	MEX1032105	Land east of Sabina Road, Chadwell St. Mary	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
17	MEX1032122	East or West Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
19	MEX1032217	Orsett Causewayed Enclosure	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
20	MEX1032218	Grey Goose Farm, Thurrock	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
23	MEX1032255	5 The Goslings, Orsett	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
27	MEX1032322	William Edwards School	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral
28	MEX1032446	William Edwards School	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
33	MEX1032743	William Edwards School	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
35	MEX1032823	WWI landing ground at Horndon on the Hill	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
36	MEX1032827	WWI landing ground at North Ockendon	Low	None	None, Project would not affect long range views.	None	No change	Neutral	None	None	No change	Neutral
40	MEX1032843	Great Warley Historic settlement	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral
41	MEX1032844	Rectory, Great Warley (site of)	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
44	MEX1032994	Bata Estate - Factory and Model Settlement	Part of East Tilbury Conservation Area (CA6)	See CA6	See CA6	See CA6	See CA6	See CA6	See CA6	See CA6	See CA6	See CA6
45	MEX1033028	Orsett Union Workhouse	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
52	MEX1034095	Land to the North of Riverside Station, Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
53	MEX1034114	Heraldic Horse Mount	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
54	MEX1034115	Gold Ring and Iron Age Stater	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
63	MEX1036414	HCF: Horndon - Tilbury (Coalhouse Fort) Gas Pipeline.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
65	MEX1036416	HCF: Horndon - Tilbury (Coalhouse Fort) Gas Pipeline.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
69	MEX1036422	HCF: Horndon - Tilbury (Coalhouse Fort) Gas Pipeline.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
70	MEX1036479	Grangewaters, South Ockendon	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
73	MEX1036566	Findspot on the Epping-Horndon Gas Pipeline	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
74	MEX1036567	Findspot on the Epping-Horndon Gas Pipeline	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
75	MEX1036569	Findspot on the Epping-Horndon Gas Pipeline	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
88	MEX1037278	Brickworks at North Ockendon	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
93	MEX1037738	Biosolids Dryer at Tilbury sewage works	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
101	MEX1038727	Warley Hill, Warley Road, Havering	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
106	MEX1039718	Tilbury Power Station Archaeological evaluation and monitoring report	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
111	MEX1040412	Tilbury Pond Wildlife Site, Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
112	MEX1040423	Mill of unknown type at Bulphan	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
115	MEX1040564	South Ockendon Congregational Chapel and associated cemetery	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
120	MEX1041055	Junction of Blue Anchor Land and Muckingford Road, West Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
122	MEX1041229	Observation Post (destroyed), Blankets Farm, Bulphan	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
124	MEX1041234	WWII HAA Gun Site 'TN14 Orsett', NW of Orsett, Thurrock	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
126	MEX1041236	Allan-Williams Turret (destroyed), Chapel Field, Orsett	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
137	MEX1041252	Six Air Raid Shelters (destroyed), between railway and Tilbury Fort	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
140	MEX1041498	A Portable Antiquities Scheme findspot of unknown date.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
143	MEX1042100	East Tilbury Marsh	Part of SM14	None	None	None	No change	Neutral	None	None	No change	Neutral
146	MEX1042207	Grey Goose Farm Cottage, Orsett, Essex	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
147	MEX1042208	Heath Place, Hornsby Lane, Orsett, Grays, Essex	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
149	MEX1043327	A Portable Antiquities Scheme findspot of unknown date.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
150	MEX1043328	A Portable Antiquities Scheme findspot of unknown date.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
151	MEX1043341	A Portable Antiquities Scheme findspot of unknown date.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
152	MEX1043347	A Portable Antiquities Scheme findspot of unknown date.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
153	MEX1043348	A Portable Antiquities Scheme findspot of unknown date.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
154	MEX1044018	A Portable Antiquities Scheme findspot of Medieval date.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
155	MEX1044080	A Portable Antiquities Scheme findspot of Medieval date.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
163	MEX1049310	Lambourne House, North Road, South Ockendon	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
176	MEX17492	North Ockendon	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
177	MEX17493	Baldwin's Farm	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
180	MEX17510	Little Belhus Farm Pit	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral
183	MEX17560	Near Belhus Woods Country Park	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
185	MEX17603	East of South Ockendon	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral
198	MEX17696	South Ockendon Hall - 'The Mount'	Low	None	None	None	No change	Neutral	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
199	MEX17697	South Ockendon Hall - 'The Mount'	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
200	MEX17698	South Ockendon - Great Mollands Lane	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
201	MEX17701	South Ockendon - Great Mollands Lane	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
208	MEX17774	Orsett-Causewayed Enclosure	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
209	MEX17775	Orsett	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
214	MEX17786	South Ockendon	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral
215	MEX17792	Stifford Clays-Primrose Island	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral
216	MEX17804	Stifford Clays-Primrose Island	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral
217	MEX17812	Stifford Clays-Primrose Island	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
218	MEX17818	Stifford Clays-Primrose Island	Medium	None	Construction activity would affect relationship between this asset and associated ones nearby	None	Negligible	Slight adverse	None	None	No change	Neutral
220	MEX17900	Orsett-Barrington's Farm, Loft's Farm	Medium	None	Construction activity would affect relationship between this asset and associated ones nearby	None	Negligible	Slight adverse	None, following completion of the utility diversion works the construction phase impact through change to setting would be reversed.	None	No change	Neutral
223	MEX17940	Stifford Clays	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
230	MEX17973	Blankets	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
234	MEX18007	Holme Farm, Bulphan Fen	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
244	MEX18050	Near William Edwards School	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
256	MEX18121	Orsett-Baker Street Pit	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
261	MEX18157	East of Baker Street	Low	None	Construction activity would affect relationship between this asset	None	Negligible	Slight adverse	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
					and associated ones nearby							
264	MEX18174	South of South Ockendon Hall	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral
265	MEX18185	North of South Ockendon Hall	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
266	MEX18190	South Ockendon Windmill	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
268	MEX18205	West of Mill House	Low	None	Construction activity would affect relationship between this asset and associated ones nearby	None	Negligible	Slight adverse	None	None	No change	Neutral
269	MEX18208	Orsett-High Road, Village Lock-up or Cage	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
277	MEX28558	Orsett Causewayed Enclosure	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
278	MEX28562	Orsett Causewayed Enclosure	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
279	MEX28563	Orsett Causewayed Enclosure	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
280	MEX28712	Field West of St Catherine's Church, Thurrock	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
281	MEX28713	Field West of St Catherine's Church, Thurrock	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
282	MEX28714	Field West of St Catherine's Church, Thurrock	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
285	MEX28721	East Tilbury - Quarry and Field east of St Catherine's Church	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
286	MEX28725	St Catherine's Church Cemetery, East Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
298	MEX31791	WWII HAA Gun Site "TN15 Chadwell", Thurrock	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
308	MEX31805	Road Barrier (destroyed), Nr Level Crossing, Fort Road, West Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
309	MEX31806	Turret (destroyed), Allotments, Fort Road	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
310	MEX31807	Road Barrier (destroyed), Cooper's Lane, West Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
311	MEX31809	Road Barrier (destroyed), Rectory Road, West Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
315	MEX31813	Spigot Mortar Pit, corner of field, St. James Church, West Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
316	MEX31814	Spigot Mortar Pit, Church Road, West Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
317	MEX31815	Spigot Mortar Site (destroyed), Manor Farm, West Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
322	MEX31821	Site of Alan-Williams Steel Turret, Love Lane/Princess Margaret Road	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral
329	MEX38154	Mucking: Mesolithic	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
340	MEX39591	The Paddock, Orsett	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
341	MEX39618	Emmanuel Church, Chadwell St. Mary	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
345	MEX39663	Cropmarks N of Linford Road	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
351	MEX39688	Cropmarks to SE of Old House Wood	Low	Recorded features outside Application Site	None	None	No change	Neutral	None	None	No change	Neutral
353	MEX39806	Cropmarks in grounds of South Ockendon Hospital	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
354	MEX39809	Cropmarks S of William Edwards Comprehensive School	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
362	MEX39864	Cropmark S of Freeman's Shaw	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
367	MEX41073	Hobbs Hole, Codham Hall Estate, Great Warley	Low	Recorded features have been	None	None	No change	Neutral	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
				removed and cannot experience a physical impact.								
368	MEX41456	Sandy Lane, Chadwell St Mary	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
369	MEX41474	West Tilbury -Gun Hill	Medium	no physical impact.	None	None	No change	Neutral	None	None	No change	Neutral
370	MEX42068	South Ockendon Hospital, South Road	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
376	MEX43028	Horndon to Barking Gas Pipeline - Site 2	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
377	MEX43030	Horndon to Barking Gas Pipeline - Site 2	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
378	MEX43034	Horndon to Barking Gas Pipeline - Site 3	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
381	MEX43040	Horndon to Barking Gas Pipeline - Site 6	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
383	MEX43043	Horndon to Barking Gas Pipeline - Site 7	Low	None	Construction activity would affect relationship between this asset and associated ones nearby	None	Negligible	Slight adverse	None	None	No change	Neutral
387	MEX5919	East Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
388	MEX5920	East Tilbury	Negligible	None	Small change during construction of ecological mitigation area	None	Negligible	Neutral	None	None	No change	Neutral
392	MEX5948	St Mary's Hospital, East Tilbury	Medium	None	Small change during construction of ecological mitigation area	None	Negligible	Neutral	None	None	No change	Neutral
393	MEX6006	East Tilbury	Low	None	Small change during construction of ecological mitigation area	None	Negligible	Neutral	None	None	No change	Neutral
394	MEX6010	East Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
395	MEX6015	Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
397	MEX6022	Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
399	MEX6028	East Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
405	MEX6090	East Tilbury Foreshore	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
406	MEX6091	East Tilbury Foreshore	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
408	MEX6093	East Tilbury Marshes	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
409	MEX6094	East Tilbury	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
411	MEX6098	West Tilbury - Condoover's Pit	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
416	MEX6192	Orsett - Orsett Heath, Greyhound Lane	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
423	MEX6214	Orsett - Orsett Heath, Pit west of Greyhound Lane	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
433	MEX6254	West Tilbury - Foreshore	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
434	MEX6255	West Tilbury	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
437	MEX6264	East Tilbury - East Tilbury Place	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
438	MEX6272	East Tilbury - Near Picon's Pit	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
439	MEX6275	Church of St Margaret, now St Katherine, East Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
440	MEX6279	East Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
444	MEX6295	East Tilbury - Muckingford Lane	Medium	None	Construction activity would impede the understanding of the relationship between this asset and contemporary features nearby.	None	Temporary minor	Temporary Slight adverse	Operation of the Project would impede the understanding of the relationship between this asset and contemporary features nearby.	None	No Minor	Slight adverse
454	MEX6401	High House Lane, Chadwell St Mary	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
456	MEX6409	East of West Tilbury	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
464	MEX6455	West Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
466	MEX6469	Find from Tilbury Fort, West Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
468	MEX6475	West Tilbury - Gun Hill	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
471	MEX6489	West Tilbury - Gun Hill	Medium	The asset of the recorded cropmarks does not	Utility works would cause small change to the setting but would	None	No change	Neutral	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
				extent into the OLS, no physical impact.	not affect significance.							
472	MEX6505	West Tilbury - Gun Hill	Medium	The Application Site covers a very small area on the eastern side of the recorded cropmarks, no physical impact.	Utility works would cause small change to the setting but would not affect significance.	None	No change	Neutral	None	None	No change	Neutral
473	MEX6510	West Tilbury - Gun Hill	Medium	The Application Site covers a very small area on the eastern side of the recorded cropmarks, no physical impact.	Utility works would cause small change to the setting but would not affect significance.	None	No change	Neutral	None	None	No change	Neutral
474	MEX6513	West Tilbury - Gun Hill	Medium	The Application Site covers a very small area on the eastern side of the recorded cropmarks, no physical impact.	Utility works would cause small change to the setting but would not affect significance.	None	No change	Neutral	None	None	No change	Neutral
475	MEX6518	West Tilbury - Gun Hill	Low	The Application Site covers a very small area on the eastern side of the recorded cropmarks, no physical impact.	Utility works would cause small change to the setting but would not affect significance.	None	No change	Neutral	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
476	MEX6520	West Tilbury - Gun Hill	Low	The Application Site covers a very small area on the eastern side of the recorded cropmarks, no physical impact.	Utility works would cause small change to the setting but would not affect significance.	None	No change	Neutral	None	None	No change	Neutral
480	MEX6533	West of High House	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
481	MEX6535	Linford	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
483	MEX6544	Orsett - (see 1801 for cropmarks)	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
485	MEX6551	Chadwell St Mary	Low	Recorded features outside Application Site	None	None	No change	Neutral	None	None	No change	Neutral
486	MEX6555	Chadwell St Mary	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
488	MEX6558	East Tilbury - Ferris Aggregate Gravel Pit	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral
489	MEX6567	West Tilbury Marsh	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
491	MEX6583	Orsett Heath	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
492	MEX6587	Orsett - Heath Farm	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
495	MEX6600	East Tilbury	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
500	MEX6629	Tilbury	Medium	Recorded features outside Application Site	Earthworks to the south of the North Portal would cause further land raising but the setting has already been greatly altered by current landfill.	None	Negligible	Slight adverse	Earthworks to the south of the North Portal would cause further land raising but the setting has already been greatly altered by current landfill.	None	Negligible	Slight adverse
504	MEX6644	Orsett	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
505	MEX6648	Orsett	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
506	MEX6657	Orsett	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
515	MEX6818	South Ockendon Hall-Mound South of	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
516	MEX6823	South Ockendon Hall-Mound South of	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
518	MEX6835	South Ockendon Hall-Mound South of	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
519	MEX6858	Bulphan-Downes Farm or Spinny Farm	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
523	060363/00/00	Fen Lane, North Ockendon	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
528	060454/03/00	Ockendon Road, North Ockendon, Havering [Post-Medieval ice house]	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
537	060462/01/00	Beredens Lane, Cranham	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
538	060462/02/00	Beredens Lane, Cranham	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
539	060464/03/00	Beredens Lane, Cranham	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
545	061034/00/00	Beredens Lane, Cranham	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
546	061037/00/00	Folkes Lane Cranham	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
547	061038/00/00	Pike Lane, Cranham	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
550	061044/00/00	Folkes Lane, Cranham	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
554	061053/00/00	Clay Tye Road, Great Warley	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
555	061057/00/00	St Marys Lane, Great Warley	Low	None	Visual and aural impact of construction would affect rural aspect of setting but would not affect the associated features with which it has a relationship.	None	Negligible	Slight adverse	None	None	No change	Neutral
556	061071/00/00	Fen Lane, North Ockendon	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
560	062181/00/00	2 Hall Farm North Ockendon	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
561	062262/00/00	Ladyville Lodge	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
564	062742/00/00	Ockendon Road, Hall Farm	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
566	062834/00/00	Church La	Medium	None	Visual and aural impact of construction would affect rural aspect of setting but would not affect the associated features with which it has a relationship.	None	Negligible	Slight adverse	None	None	No change	Neutral
567	062844/00/00	Broadfields Farm	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
568	062845/00/00	Broadfields Farm	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
569	062846/00/00	Broadfields Farm	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
570	062847/00/00	Broadfields Farm	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
571	062848/00/00	Broadfields Farm	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
572	062849/00/00	Broadfields Farm	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
576	211323/02/001	Church Lane, North Ockendon	Low	None	Visual and aural impact of construction would affect rural aspect of setting but would not affect the associated features with which it has a relationship.	None	Negligible	Slight adverse	None	None	No change	Neutral
578	211410/02/00	St Marys Lane, Upminster	Low	None	Visual and aural impact of construction would affect rural aspect of setting but would not affect the associated features with which it has a relationship.	None	Negligible	Slight adverse	None	None	No change	Neutral
592	MLO100816	Pike Lane, Upminster, Havering [Possible prehistoric linear cropmark	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
593	MLO100817	Pike Lane, Upminster, Havering [Possible prehistoric ditched enclosure]	Low	None	None	None	No change	Neutral	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
603	MLO104564	Nags Head Lane/Warley Road [Tylers Common] Havering [Common land]	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral
608	MLO144	Fen Lane, North Ockendon, Havering [undated cropmarks]	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
610	MLO54550	Church Lane, North Ockendon, Havering [probable Post-Medieval moat]	Medium	None	Visual and aural impact of construction would affect rural aspect of setting but would not affect the associated features with which it has a relationship.	None	Negligible	Slight adverse	None	None	No change	Neutral
612	MLO5871	Fen Lane, North Ockendon, Havering [Post-Medieval post mill]	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
614	MLO75999	Great Barn	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
617	MLO76902	Great Barn	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
618	MLO76903	Great Barn	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
619	MLO76918	Hall Farm, North Ockendon (including farmhouse 573 and well 620)	Medium	None	Visual and aural impact of construction would affect rural aspect of setting but would not affect the associated features with which it has a relationship.	None	Negligible	Slight adverse	None	None	No change	Neutral
624	MLO99045	Clay Tye Road, Pike Lane, [area between, undated ditches and possible pits]	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
630	413468	A Romano British pottery kiln at Condovers Pit, Saxon and Medieval pottery and a circular cropmark.	Low	None	Visual and aural impact of construction would affect rural aspect of setting but would not completely alter it.	None	Negligible	Slight adverse	None	None	No change	Neutral
634	413478	'U' earthwork.	Low	None	Minor changes during construction	None	No change	Neutral	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
					activity but would not affect value							
636	413481	`U' enclosure.	Low	None	Minor changes during construction activity but would not affect value	None	No change	Neutral	None	None	No change	Neutral
639	413486	Iron Age and Roman pottery associated with areas of burnt material and ditches recorded on the foreshore.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
640	413488	Palaeolithic implements including one handaxe, 11 retouched flakes and six flakes, Tilbury and West Tilbury.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
642	413490	Roman burials with bronze and iron bracelets, West Tilbury.	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
646	413497	Four Acheulian hand axes and flakes possibly Palaeolithic, Gun Hill. Possible Mesolithic flint flakes, a leaf-shaped arrowhead and scrapers.	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
647	413503	Palaeolithic flakes found in gravel pit.	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
648	413504	A Roman pedestal urn, Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
659	413573	`U' buckle.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
662	413590	Anglo-Saxon bronze bowl.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
681	414133	Pottery of possible Roman date	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
683	414144	Iron Age pots; `U' spur.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
684	414148	Documented site of a Romano-British double ditched enclosure.	Low	None	Construction activity would affect relationship between this asset and associated ones nearby	None	Negligible	Slight adverse	None	None	No change	Neutral
687	414162	The faint cropmarks of a circular enclosure, circa 70 metres in diameter.	Medium	None	Construction activity would affect relationship between this asset	None	Negligible	Slight adverse	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
689	498133	Windmill documented on the Orsett tithe Map of 1758.	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
691	502039	Ockendon Station	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral
700	621829	Roman briquetage	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
710	965453	Iron Age and Roman enclosed settlement consisting of two rectangular enclosures and two small ditched enclosures	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral
711	965468	Medieval and Post-Medieval house and dovecote, Stubbers, North Ockendon.	Low	None	Negligible adverse through increase of construction activity along Ockendon Road however, immediately rural character maintained to east.	None	Negligible adverse	Neutral	None	None	No change	Neutral
725	1143781	A Palaeolithic handaxe, Piggs Pit, Chadwell Saint Mary, east of Sandy Lane	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
726	1143782	Palaeolithic implements including 115 handaxes, two roughouts and six flakes, Chadwell Saint Mary or Chadwell	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
729	1145511	Palaeolithic implements including four handaxes, one retouched flake and nine flakes, Orsett and Orsett Heath	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
740	1375151	The remains of a timber and concrete jetty, on the eastern bank of the River Thames and south-east of the village of East Tilbury.	Part of SM14	None	None	None	No change	Neutral	None	None	No change	Neutral
749	1478888	Ground Controlled Interception Station 40g	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
1683	1143573	A 3 rd and 4 th century Roman building and a	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
		Medieval rectangular enclosure were excavated at Cherry Orchard Farm, Orsett, in 1964.										
1710	MEX17760	Orsett	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
1711	MEX17946	Orsett-North of Maltings Lane	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
1712	MEX17963	Orsett-Orsett Hall-North Boundary	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
1713	MEX18042	Orsett-Cherry Orchard Farm	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
1714	MEX18043	Orsett-Cherry Orchard Farm	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
1715	MEX18044	Orsett-Cherry Orchard Farm	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
1740	414146	Palaeolithic handaxes were found at Orsett no date or exact provenance of find is known.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
1766	ELO1224	Rose Cottage Farm - two medieval rings registered as treasure.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
1788	AP mapping new	Cropmarks of extensive former field boundaries forming a lost field system, many of these features are visible on the 1 st edition OS mapping of the 1880s	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
1791	AP mapping new	Cropmarks of a probable field system, some are visible on 1 st edition OS mapping of the 1880s, but other boundaries that contribute to the field system are not visible. An incomplete rectangular enclosure, 54m by 36m of an unknown date and function	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
1792	AP mapping new	Extensive former field boundaries forming a lost field system, these	Low	None	None	None	No change	Neutral	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
		features are visible on the 1 st edition OS mapping of the 1880s										
1793	AP mapping new	Cropmark of a linear ditch with right angle at eastern end. This cropmark could represent an incomplete rectangular cropmark enclosure of unknown date and function.	Low	This location would be impacted by northern tunnel entrance compound. Low potential for buried remains as asset has likely been removed.	None	None	Negligible	Slight adverse	None	None	No change	Neutral
1796	AP mapping new	Continuation on the north side of the railway of the earthworks consisting of a ditch on either side of a central track to form a driveway from the settlements on the ridge above the marsh (Site 58).	Low	None	Some change due to construction activity, but relationship with associated features south of railway has already been affected by severance and change due to landfill.	None required	No change	Neutral	None	None	No change	Neutral
1806	AP mapping new	Cropmarks of a possible incomplete circular enclosure of an unknown date. The cropmark is truncated by trees	Low	None	Visual and aural impact of construction would affect rural aspect of setting but would not completely alter it.	None	Negligible	Slight adverse	None	None	No change	Neutral
1807	AP mapping new	Cropmarks of a possible ring-ditch 32m in diameter. Located to the north of the Grey Goose Farm Scheduled Site.	Medium	None	Construction activity would affect relationship between this asset and associated ones nearby	None	Negligible	Slight adverse	None	None	No change	Neutral
1827	North Ockendon tithe map of 1841	House shown on the 1841 tithe map of North Ockendon but not on the OS map of 1872. Owned by Richard Benyon of Ockendon Hall. May explain cropmarks in this area as recorded by	Low	None	None	None	No change	Neutral	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
		Place Services 2019 - site 30.										
1887	MEX1041253	ARP shelter / Guard post, Tilbury Fort	Part of SM13	None	None	None	No change	Neutral	None	None	No change	Neutral
1891	MEX31803	Spigot Mortar Base, NW Bastion, Tilbury	Part of SM13	None	None	None	No change	Neutral	None	None	No change	Neutral
1892	MEX31804	Spigot Mortar Base, SE Bastion, Tilbury Fort	Part of SM13	None	None	None	No change	Neutral	None	None	No change	Neutral
1893	MEX31822	Radar Tower, Coalhouse Point	Part of SM14	None	None	None	No change	Neutral	None	None	No change	Neutral
1894	MEX31824	Spigot Mortar Pedestals (2) at Coalhouse Fort	Part of SM14	None	None	None	No change	Neutral	None	None	No change	Neutral
1895	MEX31830	Tett Turret (destroyed), Coalhouse Fort	Part of SM14	None	None	None	No change	Neutral	None	None	No change	Neutral
1896	MEX31832	Minefield Control Tower at Coalhouse Fort	Part of SM14	None	None	None	No change	Neutral	None	None	No change	Neutral
1897	MEX31833	Concrete Building, Coalhouse Fort	Part of SM14	None	None	None	No change	Neutral	None	None	No change	Neutral
1898	MEX6347	East Tilbury - Coalhouse Fort	Part of SM14	None	None	None	No change	Neutral	None	None	No change	Neutral
1899	MEX6352	East Tilbury - Coalhouse Point, Site of 1540 blockhouse	Part of SM14	None	None	None	No change	Neutral	None	None	No change	Neutral
1900	MEX6355	East Tilbury - Coalhouse Fort, Quick Firing Battery	Part of SM14	None	None	None	No change	Neutral	None	None	No change	Neutral
1901	MEX6359	East Tilbury - Coalhouse Fort, Quick Firing Battery	Part of SM14	None	None	None	No change	Neutral	None	None	No change	Neutral
1902	MEX6361	East Tilbury - Coalhouse Fort	Part of SM14	None	None	None	No change	Neutral	None	None	No change	Neutral
1903	MEX6378	East Tilbury - Coalhouse Fort	Part of SM14	None	None	None	No change	Neutral	None	None	No change	Neutral
1912	MLO109076	Church Lane [St Cedd's Well] North Ockendon Havering [Spring and Shrine]	Medium	None	Visual and aural impact of construction would affect rural aspect of setting but would not affect the associated features with which it has a relationship.	None	Negligible	Slight adverse	None	None	No change	Neutral
2010	MLO109158	Church Lane, North Ockendon, [St Mary	High	None	Sited adjacent to the Order Limits	None	Minor	Slight adverse	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
		Magdalene's Churchyard, Havering, RM14 3QH [medieval churchyard]			east of the M25 and surrounded by the Order Limits in all directions, construction activity may cause temporary changes to the setting of this asset by introducing additional noise, lighting and visible construction machinery							
2018	MEX1032042	Chadwell St Mary County Primary School	Low	Recorded features have been removed and cannot experience a physical impact.	None	None	No change	Neutral	None	None	No change	Neutral
2020	MEX1032172	WWII anti-aircraft ditches N of Little Thurrock Marshes	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
2049	MEX1041256	Military Camp (destroyed), junction with St. Chad's Road / Feenan Highway, Tilbury	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
2050	MEX1043326	A Portable Antiquities Scheme findspot of unknown date.	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
2058	MEX1049924	Fen Farm, Orsett Fen	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
2063	MEX1049929	Old Barn, Ockendon	Low	None	Change to rural setting during construction, but would not affect all associated rural land	None	Minor	Slight adverse	None	None	No change	Neutral
2064	MEX1049933	Heath Farm Cottages	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
2086	MEX18203	Near Great Palmer's Shaw	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral
2091	MEX28709	Near Dame Elyns	Low	None	Construction activity would affect relationship between this asset	None	Negligible	Slight adverse	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
						and associated ones nearby.						
2100	MEX31796	Spigot Mortar Site (destroyed), OS138 Grassland E of Chadwell	Part of 2049	None	None	None	No change	Neutral	None	None	No change	Neutral
2101	MEX31797	Tett Turret (destroyed), S of Chadwell St. Mary	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
2103	MEX31799	Spigot Mortar Site (destroyed), N of Cross Keys Inn, Chadwell	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
2111	MEX39807	Cropmark S of Middle Farm	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral
2112	MEX39824	Cropmarks W of Stifford Clays Farm House	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
2113	MEX39856	Cropmark N of Bonnygate Wood	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
2120	MEX5916	Tilbury	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
2129	MEX6047	Tilbury Fort, West Tilbury	Part of SM13	None	None	None	No change	Neutral	None	None	No change	Neutral
2137	MEX6206	Rectory, Chadwell St Mary	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
2151	MEX6529	West Tilbury - Gun Hill	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
3551	OS maps	Middle Farm. Shown on the first edition OS map of 1872. Demolished in the later 20 th century.	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
3697	ATT WSI N	Roman ditch and pit settlement activity	Medium	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
3698	ATT WSI N	Late Saxon and med activity	Medium	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
3700	ATT WSI N	Pond	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
3725	LTC ATT WSI G trenches 170, 169, 184	Ditch containing Late Bronze Age/iron Age pottery and piece of perforated fired clay slab/plate of late Bronze Age date	Low	No change	Construction of main alignment to south and A13 slip roads to north would introduce aural and visual intrusion.	None	Negligible	Temporary Slight adverse	The operational alignment would impede the understanding of the relationship between this asset and contemporary features nearby.	None	Minor	Slight adverse

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
3731	LTC ATT WSI G trench 172	Ditches of possible boundary and trackway of possible Roman date	Low	No change	Construction of main alignment to south and A13 slip roads to north would introduce aural and visual intrusion.	None	Negligible	Temporary Slight Adverse	The operational alignment would impede the understanding of the relationship between this asset and contemporary features nearby.	None	Minor	Slight adverse
3759	ATT WSI N	Medieval Pit	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
3760	ATT WSI N	Undated ditch	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
3766	LTC ATT WSI G trench 186	Ditch containing early Roman pottery	Low	No change	Construction of main alignment to south and A13 slip roads to north would introduce aural and visual intrusion.	None	Negligible	Temporary Slight adverse	The operational alignment would impede the understanding of the relationship between this asset and contemporary features nearby.	None	Minor	Slight adverse
3885	LTC ATT WSI O trenches 87, 88, 91, 92, 93, 96, 97, 98, 99, 101, 102, 103, 104	Multi-period site containing activity from Mesolithic, Neolithic, Late BA-Early IA, Late IA,- Roman, Mid-Late Roman, Saxon, Late Medieval	Medium	None	None	None	No change	Neutral	None	None	No change	Neutral
3895	LTC ATT WSI O trench 83	Post medieval ditch corresponded with a field boundary depicted on the 1888-1913 OS map	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
4184	1863 OS mapping	Site of Tilbury Railway Station	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
4409	Lower Thames Crossing – identified from Google aerial imagery	Wreck site on northern foreshore of Thames (West)	Medium	None	None	None required	No change	Neutral	None	None	No change	Neutral
4410	Lower Thames Crossing – identified from Google aerial imagery	Wreck site on northern foreshore of Thames (East)	Medium	None	None	None required	No change	Neutral	None	None	No change	Neutral

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
4593	MEX1034098	Croyton to Mucking, Mobil Power Cogeneration Gas Pipeline Project	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
4615	MEX1035551	Road barrier (destroyed), Great Ropers Lane, Warley	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
4616	MEX1035554	Road barrier (destroyed), Warley Lea, Warley	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
4617	MEX1035556	Road barrier (destroyed), Pump Farm Warley Gap, Great Warley	Low	None	None	None	No change	Neutral	None	None	No change	Neutral
4618	MEX1042712	A Portable Antiquities Scheme findspot of Late Neolithic to Early Medieval date	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral
2090	MEX22240	Moated manorial site	Medium	None	Visual and aural impact of construction would affect rural aspect of setting but would not affect the associated features with which it has a relationship.	None	Temporary Negligible	Temporary Slight adverse	None	None	No change	Neutral

Table 1.8 Non-designated Archaeology outside the Order Limits assessment table: Within the River Thames

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
62	MEX1036402	Tilbury landing stage and passenger terminal	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
409	MEX6094	East Tilbury	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
501	MEX6630	Tilbury Foreshore	Negligible	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
670	413725	Alleged site of a deserted Medieval village at Denton.	Negligible	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
740	1375151	The remains of a timber and concrete jetty, on the eastern bank of the River Thames and south-east of the village of East Tilbury.	Part of SM14	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
745	1458810	1738 wreck of English cargo or fishing vessel	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
824	1587044	DRAGON	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
1354	TQ 67 NE 54	Triumph, Thames foreshore, by Shorne Marshes	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
1355	TQ 67 NE 57	Mary Ann	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
1356	TQ 67 NE 58	Cleopatra	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
1357	TQ 67 NE 60	Jane duff	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
1358	TQ 67 NE 61	Jane Filmer	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
1359	TQ 67 NE 63	Jessie	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
1360	TQ 67 NE 64	Autumn	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
1361	TQ 67 NE 65	Vectis	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
3303	TQ 67 SE 1021	Barrage balloon, with submerged mooring in Thames, by East Court Marshes, Gravesend	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
4215	TQ 67 NE 46	Stamped Roman Mortarium, Thames foreshore, by Higham Marshes	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
4247	MKE67212	Neolithic flint lithic implement	Negligible	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
4250	MKE67312	Roman ceramic vessel	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
4251	MKE67313	Roman pottery vessel	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
4252	MKE67314	Roman pottery vessel	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
4253	MKE67315	Roman sedimentary rock whetstone	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral
4260	MKE67467	ceramic vessel	Low	No change	No change	None	No change	Neutral	No change	None	No change	Neutral

Table 1.9 Registered parks and gardens assessment table

Project ID	List entry	Name	Grade	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation impact	Operation mitigation	Operation impact2	Operation effect
RPG1	1000182	Cobham Hall	II*	High	During the construction phase, a cycleway would be constructed along the northern edge of RPG1 parallel to HS1 and the park boundary (partially along an existing PRow) (Application Document 6.2, Figure 6.6, Viewpoint S-(CH)02), which would result in the removal of small areas of trees and vegetation immediately to the south of HS1 and to the east and west of Brewers Road within RPG1. Multiple utility works would take place along Brewers Road and Halfpence Lane within RPG1 but would not cause removal of trees within the park. Other multi-purpose utility works would take place within the park south of the A2, east and west of Park Pale, and a Park Pale-A2 link would be	Long-term online main construction routes would be present along the A2 and M3. Construction activity would take place along the A2 and the Brewers Road overbridge would be replaced. The visual impact of construction activity along the A2 would be mitigated by the use of hoarding of a sensitive appearance, such as a plain and dark green style (REAC Ref CH001; AMS-OWSI No. 1, Application Document 6.3).	The impact of construction activity adjacent to Brewers Road would be mitigated by the use of hoarding of a sensitive appearance, such as plain and dark green (REAC Ref CH001; AMS-OWSI No. 1). Archaeological excavation and recording would also take place during groundworks within RPG1 to mitigate the physical impact to below-ground archaeological remains associated with RPG1, such as the park pale. Vegetation replanting west of Park Pale to restore the screening of the A2 (Linear Belt Shrubs and Trees LE2.4).	Minor	Permanent slight adverse	RPG1 would be impacted by the presence of the widened A2 and realigned Thong Lane and Brewers Road bridges over the A2, which border the northern edge of the park. The reduction in vegetation along the northern edge of the park with the loss of trees from the centre of the A2 corridor, and the increase in the size of the existing infrastructure corridor in this location would increase the visibility of modern infrastructure within and immediately adjacent to the Registered Park and Garden. According to the LVIA Chapter 7 Appendix 7.9, Table 3.3 (Application Document 6.3) there would be “a perceived change in the night-time environment” within the Local Landscape Character Area that includes Cobham Park “due to the change in street lighting (LED luminaires). Installed on lower columns, emitting reduced light spill and skyglow compared with the existing luminaires, the prominence of new lighting would be limited and perceived in the context of existing lighting. Additional light sources would be present at the Thong Lane green bridge south in the Higham Arable Farmland (sub area Thong) LLCA. However, this would be	Mitigation measures would include planting (LE2.1 Native Woodland) around the new LTC/A2 junction to reduce the visual impacts to Cobham Park and the construction of a green bridge for the Brewers Lane overbridge. The majority of the woodland along the northern edge of the park south of HS1 would be retained, which would maintain some visual screening.	Minor	Slight adverse

Project ID	List entry	Name	Grade	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation impact	Operation mitigation	Operation impact2	Operation effect
					constructed, resulting in the removal of trees in these areas. The removal of trees would take place in a strip of land located between the A2 and HS1, already physically severed from the rest of the park.					seen in the context of existing lighting along the A2." By 2045, "the establishment of tree and shrub belt planting along the southern edge of the modified A2 corridor would to some extent help reduce the effects of new lighting on the night-time environment." Given that the existing A2 corridor is already lit, it is not assessed that the lighting associated with the Project would result in adverse impacts in heritage terms. The permanent alterations to the asset would be minimal and would occur within peripheral areas, such as the strip between the A2 and HS1 which has already been physically severed from the rest of the park. The vast majority of the park would not experience a physical impact and the peaceful, rural character would be largely preserved. While the presence of infrastructure to the north of the park would be increased, this is on the line of existing infrastructure. Furthermore, the creation of the green bridges would create a green link between the park and Shorne Woods with which the asset is historically associated			

Table 1.10 Scheduled monuments assessment table

Project ID	List entry	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
SM1	1002134	Crop mark complex, Orsett	High	SM1 would be affected by construction activity associated with construction of the main alignment, multiple utility networks and OHL diversion works, utilities access routes, utility drainage compound connections, mains work construction access routes and the establishment of Stifford Clays Road compound West and Stifford Clays Road Utility Logistics Hub. The majority of the scheduled area is within the Order Limits and would be physically impacted by construction, which would remove the buried archaeological remains from this multi-period site. The cropmark complex would also experience change to its setting due to the visual and noise disturbance of construction activity within the scheduled area and in adjacent areas to the north and south. The permanent physical impact of construction activity would be mitigated by archaeological excavation and recording of the whole of the affected scheduled area (AMS-OWSI No. 4, see	The asset would be affected by construction activity associated with construction of the main alignment, multiple utility networks and OHL diversion works, utilities access routes, utility drainage compound connections, mains work construction access routes and the establishment of Stifford Clays Road compound West and Stifford Clays Road Utility Logistics Hub. The majority of the scheduled area is within the Order Limits and would be physically impacted by construction, which would remove the buried archaeological remains from this multi-period site. The cropmark complex would also experience change to its setting due to the visual and noise disturbance of construction activity within the scheduled area and in adjacent areas to the north and south. The permanent physical impact of construction activity would be mitigated by archaeological excavation and recording of the whole of the affected scheduled area (AMS-OWSI No. 4, see	Archaeological investigation and recording	Major	Large adverse	The remaining elements of the high-value scheduled Orsett cropmark complex (SM1) and the associated high-value non-designated archaeological asset (247) would experience permanent impacts of moderate adverse magnitude due to the change to their setting caused by the introduction of further large road infrastructure within the scheduled area, further physically separating the surviving elements of the scheduled monument and associated non-designated asset. This would result in permanent impacts of moderate magnitude and moderate adverse effects which are significant. The effect is assessed to be moderate rather than large as the removal of much of the archaeological remains would already have taken place during construction.	None	Moderate	Moderate adverse

Project ID	List entry	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
				Table 6.8 for details, see Section 6.5 for details). However, given the scale of impact to this nationally important high-value asset, even after mitigation, this would have a permanent impact of major adverse magnitude, resulting in a large adverse effect, which is assessed as significant and substantial harm to the designated asset	Table 6.8 for details, see Section 6.5 for details). However, given the scale of impact to this nationally important high-value asset, even after mitigation, this would have a permanent impact of major adverse magnitude, resulting in a large adverse effect, which is assessed as significant and substantial harm to the designated asset.							
SM2	1002155	Gatehouse and moat of South Ockendon Old Hall	High	The high value designated gatehouse and moat of South Ockendon Old Hall (SM2) is located within the Order Limits. The moat bridge and gatehouse are also designated as a Grade II listed building (LB65). The gatehouse and moat are located within the Order Limits, where the installation of bat boxes on existing trees would provide ecological mitigation. The proposals would cause no physical impact to the asset and would not change the setting of SM2/LB65. The major construction activity would be located at least 600m from the asset and beyond the elements of its setting that contribute to its value. Therefore, this high-value asset would experience no	None, major construction activity would be located over 600m from the asset and would cause no change to setting.	None	No change	Neutral	The high value designated gatehouse and moat of South Ockendon Old Hall (SM2), which is also Grade II listed (LB65), is located approximately 700m from the operational alignment. Its setting would not change as a result of the presence of the road, as the road would not be visible or audible from the asset, and therefore it would experience an impact of no change and a neutral effect, which is assessed as not significant.	None	No change	Neutral

Project ID	List entry	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
				change, resulting in a neutral effect, which is assessed as not significant.								
SM4	1002196	Bishop Bonner's Palace, Orsett	High	None	None	None	No change	Neutral	None	None	No change	Neutral
SM5	1002199	Earthworks near church, West Tilbury	High	None	A mains work construction secondary access routes would be situated along Coopers Shaw Road and Church Road c. 170m to the east of the asset. Utility works would take place across the open land immediately to the south-west of the asset, situated at the bottom of Hall Hill. The Northern Tunnel Entrance Compound would be located c. 650m south-east of the asset. These works would not alter its relationship with West Tilbury and the Church of St James nor or impede long-distance views across the former Tilbury Marshes. The visual disturbance to the semi-rural setting of the asset would result in a minor impact. The minor impact is assessed to result in a slight adverse effect rather than moderate effect due to the scale and nature of the impacts and the fact that the primary elements of the setting that contribute to the	Good Practice	Minor	Slight adverse	The operational alignment (at Tilbury Viaduct) would be located c. 920m east of the asset. Parts of the operational alignment further to the south-east are likely to be distantly visible from the asset, but this will not harm its value.	None	No change	Neutral

Project ID	List entry	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
					value of the asset will not be harmed.							
SM6	1009286	Causewayed enclosure and Anglo-Saxon cemetery 500m ENE of Heath Place	High	None	The high value designated causewayed enclosure and Anglo-Saxon cemetery 500m east-north-east of Heath Place (SM6) is located outside the Order Limits, but immediately to the north of the proposed Brentwood Road Compound and Brentwood Road Utility Hub, and c. 100m west of an online mains works construction access route. Utility diversion works for multi-utility networks would also take place c. 65m east of the asset. The main alignment and false cutting earthworks would be constructed from c. 275m to the south of the asset. These activities would introduce noise and visual intrusion into the setting of the asset, introducing intrusive features in views from the asset to the south, which contribute to its value. The good practice mitigation of appropriate screening of construction compounds, and dust and noise reduction measures, would reduce the impact but would not fully mitigate it due to the close proximity between the Brentwood Road	Good Practice, screening of construction compound	Temporary moderate	Temporary moderate adverse	The high-value designated causewayed enclosure and Anglo-Saxon cemetery 500m east-north-east of Heath Place (SM6) would be located upslope from the false cutting earthworks (c. 275m to the south) and the operational alignment (c. 325m to the south). The Project design has avoided the use of tall noise barriers at this location to reduce the visual impact to the asset. However, there would be clear views from the location of the asset towards the Project, although this would be located within a false cutting that would somewhat restrict views to the road and associated traffic. Traffic along the operational Project would be clearly audible from the asset, with a noise increase of 3db – 5db. The operational alignment would also be located along the base of the dry valley with which the asset is associated. As a result of the Project, some Prehistoric to Roman archaeological sites associated with the asset within the Order Limits would have been removed and replaced by the operational alignment. This change to the setting of the asset would have a permanent impact of moderate adverse magnitude and a moderate adverse effect, which is assessed as significant. The effect is assessed as moderate rather than large due to the scale of change	The Project would be located within a false cutting to reduce visibility.	Moderate	Moderate adverse

Project ID	List entry	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
					Compound and SM6. This is assessed to result in a moderate adverse impact and a moderate (rather than large) effect due to the scale and temporary nature of the changes to its setting.				to the overall setting and lack of physical impacts to the asset.			
SM7	1009287	Springfield style enclosure and Iron Age enclosures south of Hill House, Baker Street.	High	None	The high value Springfield' style enclosure and Iron Age enclosures south of Hill House, Baker Street (SM7) is located adjacent to the Order Limits. The working area for buried utility diversions would be located directly adjacent to the eastern end of the scheduled area. Consequently the asset would be preserved in situ. The associated non-designated high value Bronze Age and Iron Age cropmark complex (2078) that surrounds the scheduled area would be physically impacted by the utility diversion (as assessed above). The loss of part of these associated archaeological remains would negatively affect the setting of the scheduled monument as they form part of the same wider area of activity and make a key contribution to its value. The loss of the majority of the Orsett cropmark complex (SM1) to the west	None	Permanent minor adverse	Permanent slight adverse	The utilities would be buried and would not create any visual intrusion during operation. The operational A122 would not be clearly visible and the noise would increase by only c. 1 decibel.	Landscape earthworks and planting would reduce visibility.	No change	Neutral

Project ID	List entry	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
					would also affect the setting of this asset by removing additional archaeological remains which are broadly contemporary with elements of SM7. Other Late Prehistoric archaeological remains would survive unharmed within the setting of this asset, such as 261 and 268. Overall, the removal of some associated archaeological remains of 2078 and SM1 would have a permanent impact of minor adverse magnitude on this high-value asset, resulting in a slight adverse effect after mitigation, which is not significant. A slight rather than a moderate adverse effect is considered appropriate due to the limited area of associated remains which would be disturbed and the fact that the core concentrations of settlement activity would not be harmed.							
SM8	1011011	Bowl barrow in Ashenbank Wood south of Cobham Park reservoir	High	None	None	None	No change	Neutral	The long-term operational noise change would not be discernably different from existing noise levels. The existing A2 in the vicinity and the Brewers Road overbridge are already lit (see Figure 7.18, Application Document 6.3) although the Thong Lane Green Bridge would create a new light source. However, given the existing	None	No change	Neutral

Project ID	List entry	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
									setting of the asset c. 300m south of the A2, the minor change to night-time setting is not assessed to cause harm to the value of the asset.			
SM9	1012185	Second World War anti-aircraft battery at Bowaters Farm	High	None	The asset would be located approximately 165m east of the Northern Tunnel Entrance compound, utilities diversion works, and immediately to the west of an area of the Order Limits in which works would be carried out to establish ecological mitigation areas. These activities would introduce noise and visual impacts to the setting of the asset. Although the overgrown nature of the asset means that direct views would be limited (Application Document 6.2, Figure 6.6, Viewpoint N-(CH)08 and N-06), construction activity is likely to be clearly audible. This would alter the setting of the asset but would not change its most important characteristics	Screening of construction compounds, Good Practice	Minor	Temporary Slight Adverse	The asset would be located approximately 450m east of the operational alignment and would have no clear views towards it (Application Document 6.2, Figure 6.6, Viewpoint N-(CH)08 and N-06). Views in this direction are not a key aspect of its setting. Traffic on operational main alignment would be audible (a moderate adverse change in noise terms of 5db to 10db) and this would constitute an adverse change in its setting. The ecological mitigation area to the east would comprise open mosaic habitat and would not impede views in this direction or alter the relationship between the anti-aircraft battery and contemporary defences at Coalhouse Fort (SM14). The effect is considered to be slight rather than moderate due to the nature and scale of change to the setting of the asset.	None	Minor adverse	Slight adverse

Project ID	List entry	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
SM10	1012964	Romano-British villa and 19 th century reservoir in Cobham Park	High	None	Introduction of additional traffic, light and noise associated with construction.	None	Negligible	Temporary Slight adverse	The long-term operational noise change would not be discernably different from existing noise levels. Operation of the Project would not result in a discernible change within the setting, beyond the establishment of an NMU route c. 80m to the north of the asset, at the northern edge of Cobham Park and the redesign of the existing Halfpence Lane/Thong Lane roundabout in the north-western part of the park. The existing A2 in the vicinity and the Brewers Road overbridge are already lit (see Figure 7.18, Application Document 6.3) and therefore the night-time setting is not likely to be discernably changed.	None	No change	Neutral
SM11	1013880	East Tilbury Battery	High	None	The establishment of ecological mitigation LE8.1 Open Mosaic Habitat immediately south, east and north of the asset would not result in adverse impacts.	None	No change	Neutral	The asset would be located approximately 1.2m to the east of the operational alignment and would be screened from it by built form immediately to the west along Princess Margaret Road. There would be no change to noise levels around the asset. The presence of ecological mitigation LE8.1 Open Mosaic Habitat immediately south, east and north of the asset would not result in adverse impacts.	None	No change	Neutral
SM12	1019106	Roman barrow 260m north-east of South Ockendon Hall	High	None	None, major construction activity would be located c. 470m to the north of the asset and would cause no change to elements of its setting that contribute to its value.	None	No change	Neutral	The operational Project would cause an increase in noise at this location (5db to 10db a moderate adverse change in noise terms), causing a small change to the setting of the asset which would have a negligible impact on its overall value. The main	None	Negligible	Slight adverse

Project ID	List entry	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
									alignment would not spatially separate the asset from the sites of the potentially associated former barrows located along the slight ridgeline to the south of the asset.			
SM13	1021092	Tilbury Fort	Very High	None	There would be an aural and visual impact from construction traffic on Fort road within the Order Limits and mains works area c. 230m to north of the asset, and a similar impact from the road immediately north of Fort Road which would be used as a long-term online mains works construction access route.	Good Practice	Negligible	Temporary Slight adverse	The asset is located c. 19km west of the proposed North Tunnel Portal, although this would be obscured by pylons and structures at the Tilbury Sewage Treatment Works (Application Document 6.2, Figure 6.6, Viewpoint N-01 and N-(CH)01-06) and screened by landscape earthworks. The remaining open landscape view from the fort to West Tilbury would not be obstructed by the Project, the closest element of which would be located approximately 865m east of West Tilbury. The landscape earthworks proposed to the south of the North Portal would increase the height of the land in this area. This land has already been raised by landfill, obscuring views between Tilbury Fort (SM13) and Coalhouse Fort (SM14) to the east. The landscape earthworks would increase this height by approximately 8.5m from the current height at their maximum (and by approximately 4.5m from the permitted height of the current landfill operation) but would create no further change to the setting of Tilbury Fort. The operation of the Project would result in no change.	None	No change	Neutral
SM14	1013943	Coalhouse Fort battery	Very High	None	The land within the Order Limits	Good Practice	Negligible	Temporary slight adverse	There would be no change to noise levels around the	None	No change	Neutral

Project ID	List entry	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
		and artillery defences			immediately to the west of the asset would be used as a light vehicle access route, which will not involve excavation of a fixed trackway (although vehicle matting may be placed). Groundworks will take place in the fields immediately west and north of the asset to establish ecological mitigation areas. Construction of the tunnel portal would take place c. 1.3km west of the asset and associated earthworks and new landforms of Tilbury Fields would be constructed (within the southern tunnel entrance compound) c. 1.1km west of the asset. Overall, the noise, lighting and visual intrusion caused by construction activities would result in a minor magnitude of impact. The effect is assessed as moderate rather than large due to the character of the impacts, the distance of much of the construction activity and their temporary nature.				asset. The main alignment and tunnel portal c. 1.3km to the west of the asset would be screened from view by earthworks. The Tilbury Fields landscape earthworks would be slightly visible from the upper parts of the fortifications, as glimpsed views through trees beyond the raised ground of East Tilbury landfill against a backdrop of Tilbury substation and Tilbury Port (Application Document 6.2, Figure 6.6, Viewpoint N-(CH)09). Ecological mitigation areas would be present immediately west of the asset: LE6.41 Marsh and Wet Grassland - Coastal Grazing Marsh; LE6.12 Water Bodies and Associated Plants - Shallow Scrape; and LE6.2 Banks and Ditches and also to the north of the asset: LE8.6 Translocated Acid Grassland. The ecological mitigation landscaping would maintain the current open areas which contribute to the value of the asset. The main alignment and earthworks would not harm the relationship between the asset and associated defence features or major topographical features such as the surrounded reclaimed marshes, the River Thames and the southern bank.			
SM15	1003403	Cliffe Fort	High	None	None	None	No change	Neutral	None	None	No change	Neutral
SM16	1005120	Gravesend blockhouse	High	None	None	None	No change	Neutral	None	None	No change	Neutral

Project ID	List entry	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
SM17	1013658	New Tavern Fort, Gravesend, including Milton Chantry	High	None	Order Limits is located c. 1.05km east and 1.34km north-east of the asset. A short-term online main construction route will pass through the Conservation Area along Canal Road/Ordnance Road. 'Short-term – Online – Main' routes are generally used for initial access, primarily for site setup works. Once the appropriate offline accesses are created, the short-term routes would not be used for HGV construction traffic other than for very specific works (see Outline Construction Traffic Management Plan, Application Document 7.14). There will be an aural and visual impact from the construction traffic this route.	None	Negligible	Temporary Slight adverse	None	None	No change	Neutral
SM21	1004226	Roman enclosure SE of Vagniacae	High	None	Impact caused to semi-rural setting by construction traffic on adjacent existing A2 dual carriageway, which will be utilised as a long-term online main construction access route.	None	Negligible	Temporary Slight adverse	None. Application Site is located c. 200m to the north across the existing A2 and A2260. Operational elements in this part of the Application Site will comprise new below-ground multi-utility services. The noise levels in the vicinity of the asset will not be increased by the Project.	None	No change	Neutral

Project ID	List entry	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
SM22	1005140	Springhead Roman site	High	None	Impact caused to semi-rural setting by construction traffic on adjacent existing A2 dual carriageway, which will be utilised as a long-term online main construction access route.	None	Negligible	Temporary Slight adverse	None. Application Site is located c. 160m to east across the existing A2 and A2260. Operational elements in this part of the Application Site will comprise new below-ground multi-utility services. The noise levels in the vicinity of the asset will not be increased by the Project.	None required	No change	Neutral
SM23	1010710	Deserted medieval manorial settlement of Cossington	High	None	None	None	No change	Neutral	The land within the Order Limits does not contribute to the value of the asset and its value will not be harmed by the operation of the Project. The noise levels in the vicinity of the asset will not be increased by the Project.	None	No change	Neutral

Table 1.11 Historic landscape character assessment table: South of the River Thames

Historic landscape category	Value	Historic Landscape Types (HLTs) impacted	Construction / Operation Impact	Operation mitigation	Magnitude of impact	Significance of effect	Significance
Reclaimed land	Medium	HLT ref. Q: other reclaimed land (20 th century), HLT ref. V: small rectilinear enclosures (medieval to post-medieval)	Impacts on the historic landscape from construction and operation have been considered cumulatively: small rectilinear enclosures (HLT ref. V) on reclaimed marshland located above the operational tunnel alignment will be impacted by a new section of drainage between Lower Higham Road and the River Thames. Creation of wet grassland habitat adjacent to the Thames and Medway Canal will alter the intended agricultural function of this historic landscape	Creation of wet grassland habitat would restore some of this historic landscape's past marshland character.	Negligible	Slight adverse	Not significant
Farming landscape	Low	HLT ref. A: fields predominantly bounded by tracks, roads and other rights of way, HLT ref. H: 19th century prairie fields with extensive boundary loss, HLT ref. M: small regular fields with straight boundaries (parliamentary type enclosures formed by 19th and 20th century enclosure)	Impacts on the historic landscape from construction and operation have been considered cumulatively: The construction of the main alignment, earthworks, landscaping and utility diversions will remove parts of this historic landscape and permanently change its layout and character. Woodland planting will alter an area of small regular enclosures with straight boundaries (HLT ref. M) located north of the A2 and north-west of M2 junction 1. Nitrogen deposition (Ndep) compensation planting would permanently alter the agricultural landscape within Ndep sites at Burnham, Henhurst, Court Wood, and Fen Wood.	Reinstatement of majority of 19th prairie fields (HLT ref. H) following construction works. Ndep compensation tree planting would impact the agricultural landscape at Burnham, Henhurst, Court Wood, and Fen Wood sites.	Moderate	Slight adverse	Not significant
Woodland	Medium	HLT ref. B: 19th century coppices, HLT ref. F: pre-19th century woodland, HLT ref. I: pre-19th coppices	Impacts on the historic landscape from construction and operation have been considered cumulatively: Pre-1810 woodland (HLT ref. F) at Claylane Wood will be impacted by the Project, and the main alignment, earthworks, and cycleways will be present during operation. 19th century plantations (HLT ref. C) incorporating parts of Ashenbank, Shorne, and Brewers Woods will be impacted by landscaping, utility diversions and earthworks. 19th century coppices (HLT ref. B) in Brewers Wood, and pre-19th century coppices (HLT ref. I) in Shorne Woods will be impacted by landscaping and earthworks.	Vegetation will be largely retained along woodland edges of Brewers Wood and Shorne Woods.	Minor	Slight adverse	Not Significant

Table 1.12 Listed buildings assessment table: South of the River Thames

Project ID	Source reference	Name	Grade	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
LB105	1346416	Parish Boundary Stone	II	Medium	None	Located within the Order Limits, adjacent to the route of a PRoW that would be upgraded to an NMU route by the Project. These works would not move or otherwise physically impact the asset and the asset would be protected by fencing. The asset has previously been moved from its original location for the construction of HS1, and consequently its precise location makes little contribution to its value.	Temporary fencing	Negligible	Slight adverse	The long-term operational noise change would not be discernably different from existing noise levels. The operation of the Project would have no adverse effects on the value of the asset.	None	No change	Neutral

Table 1.13 Non-designated built heritage assessment table: South of the River Thames

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Overall construction impact	Construction effect	Operation setting impact	Operation mitigation	Overall operation impact	Operation effect
1562	TQ 67 SE 368	Caves converted to air raid shelters, Thong Lane, Shorne, Gravesham	Low	Removed during establishment of construction haul road, utility works and multi-utility networks.	Construction activity would affect relationship between asset and Thong.	Historic building recording (AMS-OWSI No. 2)	Moderate	Permanent slight adverse	N/A due to removal during construction.	N/A	N/A	Neutral
1875		WWII air raid shelter	Low	Asset would be removed during utility groundworks (gas) and establishment of Native Woodland LE2.1	Construction activity would add further modern disturbance into area between asset and associated assets to south of A2.	Building recording	Moderate	Permanent slight adverse	The widened A2 would increase the modern infrastructure corridor in the area between asset and associated assets to south of A2 (if asset not completely removed).	None	Minor	Slight adverse
4525	MKE84731	Cossington Fields Farm South	Low	None	Current rural setting would be altered through construction activity and vehicle movements, in close proximity to the asset due to activity within the Nitrogen Deposition Area at Kit's Coty. Impacts may come through an increase in noise, vibration and dust from the construction activity.	Good Practice	Moderate	Permanent slight adverse	The introduction of tree planting would enclose the setting of the asset, removing previous views across arable land to the south, which contribute in part to the asset's significance through a historic functional relationship. Design mitigation has provided a buffer to the asset, to maintain some open land and preserve some space around the asset.	Design-buffer provided to avoid enclosing the asset in trees.	Minor	Slight adverse

Table 1.14 Non-designated archaeology within the Order Limits assessment table: South of the River Thames

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
667	413713	Findspot of five Roman miniature pots	Negligible	The location of this findspot is unclear. 1582 is also recorded as a potential findspot. There will be no impact as the finds have been removed.	N/A due to physical removal.	None	No change	Neutral	N/A	None	No change	Neutral	N/A	N/A	N/A
675	413749	A group of pits of uncertain date, situated on the chalk on the eastern edge of Gravesend	Low	Asset will be removed during construction of southern tunnel entrance compound.	N/A due to physical removal.	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	Y	N	N
677	413760; LTC geophysical survey and ATT		Low	Majority of asset would be removed through the establishment of the A2 West Utility Logistics Hub (ULH 14), LTC A2 Junction (main alignment), associated landscaping, utilities working areas, and A2 Construction Compound.	Retained areas would experience construction/utility activity taking place in close proximity with associated noise and visual disturbance.	Archaeological excavation and recording	Moderate	Permanent slight adverse	Due to change in character from rural to urban Elements of rural character will be present and remains preserved in situ will benefit from space provided for Thong Conservation Area	None	Minor	Slight adverse	N	N	N
688	416214	Neolithic axe found near Knight's Place, Cuxton	Negligible	None. The find has been previously removed and the modern A2 constructed across this location.	N/A due to previous physical removal.	None	No change	Neutral	None	None	No change	Neutral	N/A	N/A	N/A

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
703	765312	Trackway with flanking ditches	Low	The part of the asset within the Order Limits would be removed during construction of the southern tunnel portal compound.	Works within and adjacent to the asset and removal of associated features.	Archaeological excavation and recording	Moderate	Permanent slight adverse	None	None	No change	Neutral	N	N	N
721	1084628	Lower Palaeolithic handaxe and retouched flake	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral	N/A	N/A	N/A
762	1549982	The earthworks of two possible Post-Medieval woodland banks and flanking ditches, Claylane Wood	Low	Assets will be partially removed during utility groundworks (gas and multi-utility) and subsequent landscape planting LE2.2 Woodland Edge. The effect is assessed as neutral rather than slight due to the small part of the asset that would be removed.	None	Archaeological excavation and recording	Minor	Neutral	None	None	No change	Neutral	N	N	N
763	1549990	The earthwork of a possible Post-Medieval sand pit can be seen in Claylane Wood	Negligible	A small part of the upper fill of the asset would be partially removed during construction of cycleway.	None	Archaeological excavation and recording	Negligible	Neutral	None	None	No change	Neutral	N	N	N
768	1550247	The earthwork remains of a 20 th century golf course on	Negligible	Utilities and drainage works will take place in a narrow corridor	None	None	Negligible	Neutral	None	None	No change	Neutral	N	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
		Filborough Marshes		across the southern edge of the former golf course.											
774	1550459	Possible Late Prehistoric or Roman Enclosure cropmarke to the north of Harts Hill	Medium	Removal of the asset through a combination of the mains works area, utility working area, Southern Tunnel Entrance Compound and Ancient Woodland Mitigation Planting LE8.2	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent Moderate adverse	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	Y	N	N
775	1550460	The cropmarks of a probable Later Prehistoric enclosure and associated boundary ditch situated on the eastern slope of a coombe on the eastern edge of Gravesend	Medium	Asset will be removed during construction of Southern Tunnel Entrance Compound and landscaping.	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent Moderate adverse	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	Y	N	N
776	1550461	The cropmark of a possible Post-Medieval chalk pit situated south of Chalk	Low	Asset will be removed during construction of southern tunnel entrance compound.	N/A due to physical removal	None	Major	Permanent slight Adverse	N/A	None	No change	Neutral	Y	N	N
777	1550462	The cropmark of a possible Post-Medieval chalk pit situated to the south of Chalk	Low	Asset will be removed during construction of southern tunnel portal entrance compound.	N/A due to physical removal	None	Major	Permanent slight Adverse	N/A	None	No change	Neutral	Y	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
779	1550465	Cropmarks of Iron Age or Roman field boundaries	Low	Asset will be removed during construction of the southern tunnel entrance compound.	N/A due to physical removal.	Archaeological excavation and recording	Moderate	Permanent Slight Adverse	N/A	None	No change	Neutral	Y	N	N
780	1550473	The earthwork of a Post-Medieval water channel situated on Filborough Marshes	Low	None	None	None	No change	Neutral	None	None	No change	Neutral	N	N/A	N/A
781	1550474	The earthwork of a Post-Medieval water channel situated on the southern edge of Filborough Marshes.	Low	A cut and cover drainage channel would be cut across part of the asset.	None	Archaeological excavation and recording	Minor	Permanent Slight Adverse	None	None	No change	Neutral	N	N	N
787	1551274, LTC ATT WSI no. T	A Post-Medieval field boundary surviving as hedgerows, banks and a below-ground ditch	Low	The asset would be completely removed during construction of southern tunnel entrance compound.	N/A due to physical removal during construction	Archaeological excavation and recording	Moderate	Permanent Slight Adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	N
788	1551276	A linear ditch, possibly a later prehistoric or Roman field boundary seen as a cropmark	Low	The asset would be completely removed during construction of southern tunnel entrance compound.	N/A due to physical removal during construction	Archaeological excavation and recording	Moderate	Permanent Slight Adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
789	1551290	The slight earthwork remains of a former sea wall on Filborough Marshes	Low	None	None	None required	No change	Neutral	None	None	No change	Neutral	N/A	N/A	N/A
792	1551384	The cropmarks of two possible Post-Medieval chalk pits, situated to the north of Harts Hill.	Negligible	Asset would be completely removed during construction of southern tunnel entrance compound and landscaping.	N/A due to physical removal during construction	None	Major	Permanent slight Adverse	N/A	None	No change	Neutral	Y	N	N
793	1551393	The cropmarks of two possible Post-Medieval chalk pits, situated to the north of Harts Hill, located within an area of dense archaeological activity	Low	Asset would be completely removed the establishment of the Southern Tunnel Entrance Compound.	N/A due to physical removal during construction	Archaeological excavation and recording	Moderate	Permanent Slight Adverse	N/A due to physical removal during construction	None	No change	Neutral	Y	N	N
796	1551429	The cropmark of a ditch, maybe Roman in date.	Low	The asset would be completely removed during construction of the southern tunnel portal compound.	N/A due to physical removal during construction	Archaeological excavation and recording	Moderate	Permanent Slight Adverse	N/A	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal.	Y	N	N
798	LTC ATT WSI T, HEA/NMP 1551441	The cropmarks of two ditches of uncertain date, west of Muggins Lane and less than a metre wide.	Low	The asset will be completely removed as a result of a combination of the mains works area, utility working area and establishment of	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal	N/A	N/A	N/A	Y	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
				the Southern Tunnel Entrance Compound.											
801	1551783	The remains of field boundary banks, situated on the eastern edge of Gravesend south of Chalk	Negligible	The majority of the asset will be removed during construction of the southern tunnel portal entrance compound.	N/A due to physical removal during construction	Archaeological excavation and recording	Moderate	Neutral	Agricultural landscape will be replaced with woodland, chalk grassland, and partially reinstated as agricultural land	None	Moderate	Slight adverse	N	N	N
802	1551786	The remains of three field boundary banks, situated on the eastern edge of Gravesend south of Chalk	Negligible	Asset will be removed during construction of the southern tunnel entrance compound.	N/A due to physical removal during construction	Archaeological excavation and recording	Moderate	Permanent Slight Adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	N
803	1551789	The remains of three possible Post-Medieval field banks, situated to the south of Chalk	Negligible	Asset will be removed during construction of the southern tunnel entrance compound.	N/A due to physical removal during construction	Archaeological excavation and recording	Moderate	Permanent Slight Adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	N
804	1551791	The cropmark of a continuation of an east-west trackway, situated to the south of Chalk	Low	The asset will be removed during construction of the southern portal tunnel entrance compound.	N/A due to physical removal during construction	Archaeological excavation and recording	Moderate	Permanent Slight Adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	N
805	1551913	The slight earthwork remains of a Post-Medieval chalk pit. This oval chalk pit survives as a	Low	Asset will be removed during construction of southern tunnel entrance compound and landscaping.	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent Slight Adverse	N/A	None	No change	Neutral	Y	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
		slight depression within an arable field, with archaeological activity in the vicinity.													
832	MKE66621	Iron Age copper alloy stud	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
833	MKE66622	Post-Medieval pewter bell	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
835	MKE66647	Iron Age copper alloy strap fitting	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
836	MKE66652	Roman copper alloy brooch	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
839	MKE66671	Roman copper alloy brooch	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
840	MKE66684	Roman copper alloy vessel	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
841	MKE66687	Medieval copper alloy buckle	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
842	MKE66688	Medieval copper alloy buckle	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
843	MKE66689	Medieval lead bird feeder	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
844	MKE66690	Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
845	MKE66691	Post-Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
846	MKE66692	Post-Medieval copper alloy buckle	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
847	MKE66693	Post-Medieval copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
848	MKE66696	Early Medieval silver strap fitting	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
849	MKE66702	Iron Age gold coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
850	MKE66703	Roman base silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
851	MKE66704	Roman silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
854	MKE66707	Roman copper alloy brooch	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
856	MKE66709	Iron Age copper alloy brooch	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
859	MKE66717	Roman copper alloy buckle	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
860	MKE66718	Roman copper alloy bow brooch	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
862	MKE66720	Medieval copper alloy harness pendant	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
863	MKE66724	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
872	MKE66763	Roman base silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
873	MKE66764	Roman copper alloy plate brooch	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
875	MKE66767	Roman silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
876	MKE66768	Roman copper alloy plate brooch	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
877	MKE66769	Roman copper alloy plate brooch	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
878	MKE66770	Roman copper alloy brooch	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
880	MKE66777	Copper alloy knife	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
887	MKE66798	Post-Medieval copper alloy unidentified object	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
897	MKE66809	Medieval copper alloy coin weight	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
898	MKE66810	Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
899	MKE66811	Medieval copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
900	MKE66812	Medieval copper alloy jetton	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
901	MKE66813	Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
908	MKE66823	Post-Medieval copper alloy token	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
910	MKE66825	Post-Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
911	MKE66826	Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
912	MKE66827	Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
913	MKE66828	Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
914	MKE66829	Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
915	MKE66830	Post-Medieval copper alloy buckle	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
916	MKE66831	Post-Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
917	MKE66832	Post-Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
921	MKE66844	Iron Age copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
926	MKE66857	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
927	MKE66858	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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928	MKE66859	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
929	MKE66861	Roman copper alloy bell	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
932	MKE66868	Iron Age silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
933	MKE66869	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
936	MKE66883	Roman copper alloy brooch	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
937	MKE66884	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
938	MKE66885	Roman copper alloy dress fastener (unknown)	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
939	MKE66887	Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
943	MKE66894	Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
944	MKE66895	Post-Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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945	MKE66899	Post-Medieval copper alloy token	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
947	MKE66920	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
960	MKE67110	Roman copper alloy brooch	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
961	MKE67111	Roman copper alloy brooch	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
962	MKE67112	Roman copper alloy brooch	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
963	MKE67113	Greek And Roman Provincial copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
964	MKE67114	Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
965	MKE67115	Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
966	MKE67116	Medieval silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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980	MKE67323	Iron Age copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1005	MKE67459	Bronze Age copper alloy casting waste	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1008	MKE67484	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1017	MKE67510	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1018	MKE67511	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1019	MKE67512	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1020	MKE67513	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1021	MKE67514	Silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1022	MKE67515	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1023	MKE67516	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1024	MKE67517	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1025	MKE67518	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1026	MKE67519	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1027	MKE67520	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1028	MKE67521	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1029	MKE67522	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1030	MKE67523	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1031	MKE67524	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1032	MKE67525	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1033	MKE67526	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1034	MKE67527	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1035	MKE67528	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1036	MKE67529	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1037	MKE67530	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1038	MKE67531	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1039	MKE67532	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1040	MKE67533	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1041	MKE67534	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1042	MKE67535	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1043	MKE67536	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1044	MKE67537	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1045	MKE67538	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1046	MKE67539	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1047	MKE67540	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1048	MKE67541	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1049	MKE67542	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1050	MKE67543	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1051	MKE67544	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1052	MKE67545	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1053	MKE67546	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1054	MKE67547	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1055	MKE67548	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1056	MKE67549	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1057	MKE67550	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1058	MKE67551	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1059	MKE67552	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1060	MKE67553	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1061	MKE67554	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1062	MKE67555	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1063	MKE67556	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1064	MKE67557	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1065	MKE67558	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1066	MKE71337	Post-Medieval copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1079	MKE79588	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1080	MKE79589	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1081	MKE79590	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1082	MKE79591	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1083	MKE79592	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1084	MKE79593	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed.	None	No change	Neutral	N/A	N/A	N/A
1085	MKE79594	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1086	MKE79595	Roman silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1087	MKE79596	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1088	MKE79597	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1089	MKE79598	Roman copper alloy unidentified object	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1090	MKE79599	Roman copper alloy brooch	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1091	MKE79600	Roman copper alloy brooch	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1092	MKE79601	Roman copper alloy cosmetic set	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1093	MKE79602	Post-Medieval copper alloy knife	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1094	MKE79603	Roman copper alloy buckle	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1095	MKE79604	Post-Medieval copper alloy unidentified object	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1096	MKE79605	Medieval copper alloy purse	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1097	MKE79606	Medieval copper alloy purse	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1103	MKE79612	Roman copper alloy mount	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1104	MKE79613	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1105	MKE79614	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1106	MKE79615	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1107	MKE79616	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1110	MKE79643	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1111	MKE79644	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1112	MKE79645	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1113	MKE79646	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1114	MKE79647	Early Medieval copper alloy mount	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1115	MKE79652	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1153	MKE88845	Outfarm north of White Horse Cottage	Low	None. Setting impact only.	Temporary change of setting through introduction of additional noise, lighting and visible construction activity and machinery associated with the A226 Gravesend Road compound and the main alignment respectively.	None	Minor	Temporary Slight Adverse	Permanent change in setting from main alignment	None	Minor	Slight adverse	N/A	N/A	N/A
1171	MKE95489	Roman copper alloy brooch	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1175	MKE95493	Iron Age copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1176	MKE95494	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1177	MKE95495	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1178	MKE95496	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1179	MKE95497	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1181	MKE95499	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1182	MKE95500	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1183	MKE95501	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1184	MKE95502	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1185	MKE95503	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1186	MKE95504	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1187	MKE95505	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1188	MKE95506	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1190	MKE95519	Post-Medieval copper alloy token	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1191	MKE95520	Post-Medieval copper alloy token	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1192	MKE95521	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1193	MKE95522	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1194	MKE95523	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1195	MKE95524	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1196	MKE95525	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1197	MKE95526	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1198	MKE95527	Roman copper alloy vessel	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1199	MKE95528	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1200	MKE95529	Silver coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1201	MKE95530	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1202	MKE95531	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1203	MKE95532	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1204	MKE95533	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1205	MKE95534	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1206	MKE95535	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1207	MKE95536	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1208	MKE95537	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1209	MKE95538	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1210	MKE95539	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1211	MKE95540	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1212	MKE95544	Bronze Age copper alloy bucket	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1213	MKE95546	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1214	MKE95547	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1215	MKE95548	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1216	MKE95549	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1217	MKE95550	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1218	MKE95551	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1219	MKE95552	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1220	MKE95553	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1221	MKE95554	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1222	MKE95555	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1223	MKE95556	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1224	MKE95557	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1225	MKE95558	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1226	MKE95559	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1227	MKE95560	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1228	MKE95561	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1229	MKE95562	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1230	MKE95563	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1231	MKE95564	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1232	MKE95565	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1233	MKE95566	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1234	MKE95567	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1235	MKE95568	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1236	MKE95569	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1237	MKE95570	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1238	MKE95571	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1239	MKE95572	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1240	MKE95573	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1241	MKE95574	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1242	MKE95575	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1243	MKE95576	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1244	MKE95577	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1245	MKE95578	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1246	MKE95579	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1247	MKE95580	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1248	MKE95581	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1249	MKE95582	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1250	MKE95583	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1251	MKE95584	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1252	MKE95585	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1253	MKE95586	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1254	MKE95587	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1255	MKE95588	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1256	MKE95589	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1257	MKE95590	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1258	MKE95591	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1259	MKE95592	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1260	MKE95593	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1261	MKE95594	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1262	MKE95595	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1263	MKE95596	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1264	MKE95597	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1265	MKE95598	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1266	MKE95599	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1267	MKE95600	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

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1268	MKE95601	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1269	MKE95602	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1270	MKE95603	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1271	MKE95604	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1272	MKE95605	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1273	MKE95606	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1274	MKE95607	Copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1281	MKE97489	Site of plantation and Shepherd's Cottage	Low	These below-ground remains may have been removed during construction of HS1, however this has not been proven. If below-ground remains survive, they will not be impacted upon by	None – the setting of the asset is already greatly altered and severed from Cobham Park.	None required	None	Neutral	None – the asset is already severed from Cobham Park and the Project will not have a further impact	None required	None	Neutral	N/A	N/A	N/A

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
				construction activities.											
1286	TQ 66 NE 103	Prehistoric Pit, Scalers Hill	Negligible	N/A as asset has been previously removed by archaeological excavation.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1302	TQ 66 NE 2	St Thomas's Well	Medium	The asset is likely to be physically removed or truncated by activity in the utility working area and multi-purpose utility works, the mains works area and construction of the main alignment.	N/A due to physical removal during construction.	Archaeological excavation and recording	Moderate	Permanent Moderate Adverse	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	Y	N	N
1306	TQ 66 NE 208	Medieval settlement, Henhurst Dale	Medium	This asset would be removed during construction of the main alignment, it is within the mains works area and utility working area.	N/A due to physical removal during construction.	Archaeological excavation and recording.	Moderate	Permanent Moderate Adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	N
1324	TQ 66 NE 63	Second World War RAF camps, Ashenbank Wood	Low	Construction of a cycleway through the asset and multi-utility network groundworks parallel to Brewers road and construction of the main alignment would result in the removal of some	None	Historic Building Recording, Archaeological Survey and Archaeological excavation and recording.	Minor	Permanent Slight Adverse	None	None	No change	Neutral	N	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
				surviving structural or below-ground archaeological remains.											
1327	TQ 66 NE 69	Watling Street Medieval/Post-Medieval site	Negligible	This asset has previously been removed during archaeological excavation.	N/A as this asset has previously been removed during archaeological excavation.	N/A as this asset has previously been removed during archaeological excavation.	N/A as this asset has previously been removed during archaeological excavation	N/A as this asset has previously been removed during archaeological excavation	N/A as this asset has previously been removed during archaeological excavation	N/A as this asset has previously been removed during archaeological excavation	N/A as this asset has previously been removed during archaeological excavation	N/A as this asset has previously been removed during archaeological excavation	N/A	N/A	N/A
1331	TQ 66 NE 75	World War Two RAF camp dispersal site for RAF Gravesend	Low	Utility diversion groundworks (gas and multi-utility) along with the establishment of Native Woodland Planting LE2.1 would result in the removal of the southern part of the asset, which could result in the removal of some surviving structural or below-ground archaeological remains (to a larger degree than to asset 1324).	None	Historic Building Recording, Archaeological Survey and Archaeological excavation and recording.	Moderate	Permanent slight adverse	None	None	No change	Neutral	N	N	N
1340	TQ 66 NE 84	Possible line of former tramway, Shorne Wood	Low	None	None	None required	No impact	Neutral	None	None	No impact	Neutral	N/A	N/A	N/A

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
1362	TQ 67 SE 10	Site of barrow (contracted primary; five secondary burials), cropmark	Medium	Asset would be removed during construction of southern tunnel entrance compound and utility working area	N/A due to physical removal of asset.	Archaeological excavation and recording.	Moderate	Permanent moderate adverse	N/A	None	No change	Neutral	Y	N	N
1372	TQ 67 SE 102	A group of rectilinear enclosures	Medium	The asset would be removed during construction of southern tunnel entrance compound.	N/A due to physical removal.	Archaeological excavation and recording.	Moderate	Permanent moderate adverse	N/A due to physical removal during construction	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	Y	N	N
1396	TQ 67 SE 111	Cropmark settlement of probable Bronze Age to Roman date including trackways, pits and ringditches	Medium	The asset would be completely removed by construction of the southern tunnel entrance compound	N/A due to physical removal.	Archaeological excavation and recording.	Moderate	Permanent moderate adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	N
1398	TQ 67 SE 113	Possible enclosure fragment - cropmark	Low	This asset would be removed in part through woodland planting as part of the Project as extends within the Order Limits	N/A due to physical removal.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A due to physical removal during construction	None	No change	Neutral	N	N	Y
1403	TQ 67 SE 1151	Thong Lane Second World War road block, Gravesend	Negligible	This asset has been previously removed.	N/A	None	No change	Neutral	None	None	No change	Neutral	N/A	N/A	N/A
1408	TQ 67 SE 1159	RAF Gravesend, Thong Lane, Gravesend	Low	Construction would remove below-ground remains associated with	Construction compounds would be established within and to the north	Archaeological excavation and recording	Moderate	Permanent slight adverse	Establishment of woodland to the south and east would somewhat reduce the	None	Moderate	Slight adverse	N	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
				the former airfield.	and east of the asset. Establishment of woodland within surviving open areas of the former airfield would erode its open character. The remaining sections of the airfield would also be bisected by the new road. However, the surviving section of the outer runway would be preserved.				long-distance views from the former airfield site						
1409	TQ 67 SE 116	Possible field system - cropmark	Low	The asset would be removed during utilities works and construction of temporary stockpile storage 2.	N/A due to physical removal.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A due to physical removal during construction	None	No change	Neutral	Y	N	N
1423	TQ 67 SE 119	Prehistoric and undated pits and ditches	Low	The asset would be completely removed during construction of southern tunnel entrance compound.	N/A due to physical removal.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A due to physical removal during construction	None	No change	Neutral	Y	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
1428	TQ 67 SE 120	Possible boundary ditch - cropmark	Low	The asset would be removed during construction of attenuation ponds.	N/A due to physical removal.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A due to physical removal during construction	None	No change	Neutral	Y	N	N
1429	TQ 67 SE 1203	Thong Second World War light anti-aircraft battery, Thong Lane, Gravesend	Low	Asset would be removed during construction of road.	N/A due to physical removal of asset.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A due to physical removal during construction	None	No change	Neutral	Y	N	N
1436	TQ 67 SE 122	Possible boundary ditch - cropmark	Low	The asset would be removed during construction of attenuation ponds and temporary stockpile storage 2.	N/A due to physical removal.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A due to physical removal during construction	None	No change	Neutral	Y	N	N
1454	TQ 67 SE 212	AA battery, Gravesend	Low	Potential below-ground remains would be removed during road construction.	N/A due to physical removal.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A due to physical removal	None	No change	Neutral	Y	N	N
1459	TQ 67 SE 221	Gravesend airport (site)	Low	Construction would remove below-ground remains associated with the former airfield.	Construction compounds would be established within and to the north and east of the asset. Establishment of woodland within surviving open areas of the former	Archaeological excavation and recording	Moderate	Permanent slight adverse	Establishment of woodland to the south and east would somewhat reduce the long-distance views from the former airfield site	None	Moderate	Slight adverse	N	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
					airfield would erode its open character. The remaining sections of the airfield would also be bisected by the new road. However, the surviving section of the outer runway would be preserved.										
1469	TQ 67 SE 244	Possible Bronze Age Field System, Singlewell	Low	This asset may be partially physically impacted upon by the nearby main work construction area	None – asset is already surrounded by modern roads	Archaeological excavation and recording.	Minor	Permanent slight adverse	None – asset is already surrounded by modern roads	None	No change	Neutral	N	N	N
1474	TQ 67 SE 249	Possible Bronze Age barrow, Randall Wood, Shorne	Medium	The asset would be removed during groundworks for the establishment of LE8.7 Nitrogen Deposition Mitigation Planting. This impact is assessed based on the worst-case scenario and it is anticipated that it should be possible to	N/A due to physical removal during construction	Archaeological excavation and recording	Moderate	Permanent Moderate Adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	Y

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
				preserve this asset in situ a woodland glade or similar open space.											
1512	TQ 67 SE 295	Prehistoric flint and pottery, Shorne	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1513	TQ 67 SE 296	Roman brick and pottery, Shorne	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1514	TQ 67 SE 297	Prehistoric flint, Thong	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1515	TQ 67 SE 298	Earthworks, Shorne	Low	Asset would be removed during road construction.	N/A due to physical removal.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	None	None	No change	Neutral	Y	N	N
1516	TQ 67 SE 300	Prehistoric flint, Harts Hill	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1520	TQ 67 SE 311	Iron Age ditch, Singlewell	Low	This asset may be removed during establishment of construction haul road, road construction or landscaping.	N/A	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A as asset has been previously removed	None	No change	Neutral	Y	N	N
1521	TQ 67 SE 312	Medieval animal burial, Singlewell	Negligible	N/A as asset has been previously removed by archaeological excavation.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1523	TQ 67 SE 314	Later prehistoric well, east of	Negligible	N/A as asset has been previously removed by	N/A	None	No change	Neutral	N/A as asset has been	None	No change	Neutral	N/A	N/A	N/A

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
		Claylane Wood		archaeological excavation.					previously removed						
1524	TQ 67 SE 315	Late Iron Age/Early Roman enclosure, east of Claylane Wood	Low	Potential surviving marginal elements of the enclosure would be removed during road construction.	N/A due to physical removal.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A due to physical removal	None	No change	Neutral	Y	N	N
1533	TQ 67 SE 330	Post-Medieval kiln, Henshurst Road	Negligible	N/A as asset has been previously removed by archaeological excavation.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1545	TQ 67 SE 346	Air Raid Warden's Post, Gravesend (site of)	Negligible	None	None	No change	Neutral	None	None	No change	Neutral	None	N/A	N/A	N/A
1547	TQ 67 SE 350	Prehistoric and medieval features along the A2 Pepperhill to Cobham widening scheme, site J, Pond C and Bodey's Yard	Low	These assets have been previously removed during archaeological evaluation and watching brief, although associated remains could survive within adjacent areas in the Order Limits which would be truncated or removed during planting of Ancient Woodland Mitigation Planting LE8.2.	None	Archaeological excavation and recording.	Minor	Permanent slight adverse	N/A due to physical removal	None	No change	Neutral	N	N	Y

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
1551	TQ 67 SE 355	A Bronze Age settlement, Singlewell	Negligible	N/A as asset has been previously removed by archaeological excavation.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1552	TQ 67 SE 356	Early and Middle Iron Age features, Singlewell	Negligible	N/A as asset has been previously removed by archaeological excavation.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1557	TQ 67 SE 362	Site of 6 Nissan Huts, located on land off Woodlands Lane, Shorne, Gravesham	Low	The asset would be removed during groundworks for the establishment of LE8.7 Nitrogen Deposition Mitigation Planting	N/A due to physical removal during construction	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	Y
1558	TQ 67 SE 363	V1 bomb site off Woodlands Lane, Shorne, Gravesham	Negligible	The asset would be removed during groundworks for the establishment of LE8.7 Nitrogen Deposition Mitigation Planting	N/A due to physical removal during construction	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	Y
1559	TQ 67 SE 364	DH Mosquito crash site, Shorne, Gravesham	Negligible	N/A as asset has been previously physically removed from the former route of the A2 on which it crashed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1577	TQ 67 SE 362	Site of 6 Nissen Huts, located on land off Woodlands	Low	Below-ground remains associated with the asset would be removed during	N/A due to physical removal during construction	Archaeological excavation and recording	Moderate	Permanent Slight Adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	Y

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
		Lane, Shorne, Gravesham		groundworks for the establishment of LE8.7 Nitrogen Deposition Mitigation Planting.											
1578	TQ 67 SE 363	V1 bomb site off Woodlands Lane, Shorne, Gravesham	Negligible	Below-ground remains associated with the asset would be removed during groundworks for the establishment of LE8.7 Nitrogen Deposition Mitigation Planting. The effect is assessed to be neutral rather than slight due to the fact that few remains associated with the asset are likely to be present.	N/A due to physical removal during construction	Archaeological excavation and recording	Moderate	Neutral	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	Y
1579	TQ 67 SE 40	Late Iron Age site, Thong Lane	Medium	Asset would be removed during construction of the southern tunnel entrance compound	N/A due to physical removal of asset.	Archaeological excavation and recording.	Moderate	Permanent moderate adverse	N/A	N/A due to physical removal of asset	N/A due to physical removal of asset	N/A due to physical removal of asset	Y	N	N
1582	TQ 67 SE 43	Five miniature pots	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1584	TQ 67 SE 45	Round barrow with	Medium	Asset would be removed during construction of southern tunnel	N/A	Archaeological excavation and recording.	Moderate	Permanent moderate adverse	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	Y	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
		concentric ditches		entrance compound and partially by utility working area for OHL diversion.											
1587	TQ 67 SE 52	Medieval Terminal Plate	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1595	TQ 67 SE 66	Bronze Age Barrow with biconical urn	Medium	This asset will be removed during establishment of the southern tunnel entrance compound	N/A due to physical removal of asset.	Archaeological excavation and recording.	Moderate	Permanent moderate adverse	N/A	None	No change	Neutral	Y	N	N
1596	TQ 67 SE 67	Rectilinear Feature, Cropmark	Medium	Part of the asset is likely to be removed during utilities works.	Utility works taking place within and adjacent to the asset.	Archaeological excavation and recording.	Minor	Permanent slight adverse	None	None required	No change	Neutral	N	Y	N
1598	TQ 67 SE 69	Cropmark of former WWII site	Low	Removal through the main route alignment.	N/A due to physical removal of asset.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A	None	No change	Neutral	Y	N	N
1599	TQ 67 SE 7	Possible Anglo-Saxon burial ground, Claylane Wood	Medium	The medium value non-designated possible Anglo-Saxon Burial Ground, Claylane Wood (1599) is recorded immediately outside the Order Limits in Claylane Wood, although the exact location is uncertain and the asset is likely to extend within the Order Limits. The below-ground	None - the location of the asset on higher ground within Claylane Wood adjacent to Watling Street would still be appreciable (although the asset itself is not visible above-ground).	Archaeological evaluation to ascertain if asset is located within the Application Site. Additional mitigation measures (archaeological excavation and recording) would be implemented if asset is identified within the Application Site.	Moderate	Permanent Moderate adverse	None	None	No change	Neutral	N	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
				remains would potentially be at least partially removed upon by the establishment of utilities access routes, mains works construction access routes and mains works area, utility working area and gas utility diversion works											
1600	TQ 67 SE 70; LTC geophysical survey and ATT	Roman trackway and multiperiod enclosure site	Medium	Asset would be removed during haul road construction, utilities works and woodland planting.	N/A due to physical removal of asset.	Archaeological excavation and recording.	Moderate	Permanent moderate adverse	N/A	None	No change	Neutral	Y	N	N
1603	TQ 67 SE 73	Circular structure - possible hut circle (cropmark)	Low	Asset would be removed during road construction.	N/A due to physical removal of asset.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A	None	No change	Neutral	Y	N	N
1604	TQ 67 SE 74	Circular enclosed settlement with entrance to west	Medium	Asset would be removed during construction of the southern tunnel entrance compound	N/A due to physical removal of asset.	Archaeological excavation and recording.	Moderate	Permanent Moderate adverse	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	Y	N	N
1606	TQ 67 SE 76	Rectangular enclosed settlement - cropmark	Medium	Asset would be removed during construction of the southern tunnel entrance compound	N/A due to physical removal of asset.	Archaeological excavation and recording.	Moderate	Permanent moderate adverse	N/A due to physical removal of asset	N/A due to physical removal of asset	N/A due to physical removal of asset	N/A due to physical removal of asset	Y	N	N
1607	TQ 67 SE 77	Roman rectangular enclosure	Medium	The asset would be completely removed during	N/A due to physical	Archaeological excavation and recording.	Moderate	Permanent moderate adverse	N/A	None	No change	Neutral	Y	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
				construction of southern tunnel entrance compound.	removal of asset.										
1608	TQ 67 SE 78	Sub-circular Iron Age to Roman settlement enclosure	Medium	The asset would be completely removed during construction of southern tunnel entrance compound.	N/A due to physical removal of asset.	Archaeological excavation and recording.	Moderate	Permanent moderate adverse	N/A	None	No change	Neutral	Y	N	N
1609	TQ 67 SE 79	Pits, Cropmark	Low	Asset would be removed during construction of temporary storage stockpile 1.	N/A due to physical removal of asset.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A	None	No change	Neutral	Y	N	N
1620	TQ 67 SE 92	Prehistoric funerary or settlement activity	Medium	The asset would be completely removed during construction of southern tunnel entrance compound.	N/A due to physical removal of asset.	Archaeological excavation and recording.	Moderate	Permanent moderate adverse	N/A	None	No change	Neutral	Y	N	N
1622	TQ 67 SE 94	Enclosures and cropmarks	Medium	Asset will be completely removed by construction of the southern tunnel entrance compound	N/A due to physical removal of asset.	Archaeological excavation and recording.	Moderate	Permanent Moderate adverse	N/A due to physical removal of asset	N/A due to physical removal of asset	N/A due to physical removal of asset	N/A due to physical removal of asset	Y	N	N
1662	TQ 67 SW 418	Neolithic Mortuary Enclosure or Long Barrow (?), Tollgate	High	This asset will be preserved <i>in situ</i> .	None	Preservation <i>in situ</i> and protective fencing (REAC Ref. CH001; AMS-OWSI No. 1	No change	Neutral	This asset will be preserved <i>in situ</i>	Preservation <i>in situ</i>	No change	Neutral	N	N	N
1663	TQ 67 SW 419	Ditched Trackway, Tollgate	Low	Part of the asset may be removed by a construction haul road.	None	Archaeological excavation and recording.	Moderate	Permanent slight adverse	None	None	No change	Neutral	N	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
1667	TQ 67 SW 524	Prehistoric post-built structures, Tollgate	Negligible	N/A as asset has been previously removed by archaeological excavation.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1668	TQ 67 SW 525	Early Bronze Age pits and possible field system, Tollgate	Low	This asset may be removed during establishment of construction haul road	N/A	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A as asset has been previously removed	None	No change	Neutral	N	N	N
1669	TQ 67 SW 534	Mesolithic to Bronze Age worked flints, Singlewell	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1680	TQ 86 SW 132	Watling Street Roman Road	Medium	None. The route of the Roman road where it passes through the Application Site has already been disturbed by the construction of the modern A2, and subsequent realignment and widening of the A2 to a dual carriageway.	The Project will result in the removal of Roman remains in the vicinity of Watling Street. However, this is partially offset by the fact that the Project will provide additional new information on the Roman landscape in the hinterland of Watling Street in this area.	Archaeological excavation and recording of Roman-period archaeological remains within the Application Site.	Minor	Permanent slight adverse	None The historic route of Watling Street in this area will continue to be broadly indicated by the route of the A2	None	No change	Neutral	N	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
1762	EKE9834	A2 Pepperhill to Cobham widening scheme	Negligible	None. This asset is no longer present.	None. This asset is no longer present.	None	No change	Neutral	None This asset is no longer present	None	No change	Neutral	N/A	N/A	N/A
1787	Late 19 th century OS maps	Brickworks, identified through research as Brickkilns, possible two different kilns. Possibly destroyed through the A2 widening works.	Low	The asset would be removed during utilities works.	N/A due to physical removal.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A as the asset would be removed during the construction phase	None	No change	Neutral	Y	Y	N
1813	ATT WSI no. T, Trench 346	Barrow of probable Bronze Age date	Medium	The asset would be removed during construction of the southern tunnel entrance compound	N/A due to physical removal.	Archaeological excavation and recording.	Moderate	Permanent Moderate adverse	N/A as the asset would be removed during the construction phase	None	No change	Neutral	Y	N	N
1814	LTC geophysical survey and ATT WSI no. T trenches 4, 5, 6	Sub-rectangular enclosure located 100m north of the A226, with multi-period activity from the Late Bronze Age to the Early Roman period	Medium	Asset is partially located within the Order Limits to the north of the A226. The section of the asset within the Order Limits would be removed during the construction of southern tunnel entrance compound.	Construction activity would take place within and adjacent to the asset	Archaeological excavation and recording.	Minor	Permanent slight adverse	None	None	No change	Neutral	N	N	N
1820	Headland 2019 Geophysical survey	Possible Roman enclosure south of Thong. A rectilinear	Medium	The asset would be completely removed during the establishment of	N/A due to physical removal.	Archaeological excavation and recording.	Moderate	Permanent Moderate adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
		enclosure containing a number of discrete features (possibly pits). Similar in size to other possible Roman enclosures in the area.		the A2 Compound											
1821	Headland 2019 Geophysical survey; LTC ATT	Bronze Age to Iron Age boundary ditch. .	Low	The asset would be totally removed through construction of the main alignment.	N/A due to physical removal.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A as the asset would be removed during the construction phase	None	No change	Neutral	Y	N	N
1822	Cobham Tithe map of 1845 and later 19 th century OS maps	Several cottages shown on the Cobham Tithe map of 1845 (CTR 96B) and also the OS maps of 1872 and 1897 but are not shown on mapping after this so they must have been demolished. Described as pightle and cottage in the ward schedule	Low	The asset would be removed during road construction.	N/A due to physical removal.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A as the asset would be removed during the construction phase	None	No change	Neutral	Y	N	N
1840	Site walkover	Probable toilet block associated with RAF camp.	Low	None	None	None	No change	Neutral	None	None	No change	Neutral	N	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
1841	Site walkover	Concrete opening, possible shaft. Possible associations with known WWII RAF camp activity in area.	Low	None	None	None	No change	Neutral	None	None	No change	Neutral	N	N	N
1852	Lower Thames Crossing Walkover Survey	Former field boundary	Negligible	Asset will be partially removed during utility diversion groundworks	Associated field system will be largely removed	None	Moderate	Permanent slight adverse	Alteration of associated field system	None	Moderate	Neutral	N	Y	N
1865	Lower Thames Crossing Walkover Survey	Former water channel	Negligible	Asset will be removed during Ancient Woodland Mitigation Planting LE8.2	None	None	Major	Permanent slight adverse	None	None	No impact	Neutral	Y	N	Y
1883	MKE104337	Former C17 Avenues radiating from the West front of Cobham Hall	Low	None	None. Construction activity at the northern edge of the parkland will not result in harm to the value of this asset, which draws its value from its relationship with the primary features of the parkland such as Cobham Hall, and the adjoining roads to which it leads.	None	No change	Neutral	None. A cycleway at the northern edge of the parkland which has already been altered with the addition of the Brewers Road roundabout will not impact upon the value of this asset	None	No change	Neutral	N/A	N/A	N/A

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
1991	MKE113262	Post Medieval copper alloy token	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
1997	MKE114359	Site of former Cobham Golf Course clubhouse	Negligible	The asset would be removed by NMU and earthworks.	N/A due to physical removal.	None	Major	Permanent slight adverse	N/A as the asset would be removed during the construction phase	None	No change	Neutral	Y	N	N
1998	MKE114354	Area of built infrastructure for Cobham claypit	Low	Landscape proposals and utility works (gas) would result in removal of the southernmost part of the asset.		Historic Building Recording, Archaeological Survey and Archaeological excavation and recording.	Minor	Neutral	None The Project would not impact on other extractive industry assets to the north-east, outside the Application Site boundary	None	No change	Neutral	N	N	N
2291	TQ 67 SE 34	Site of multi-period Prehistoric and Roman activity	Medium	Asset would be completely removed during construction of the southern tunnel entrance compound and utilities works.	N/A due to physical removal of asset.	Archaeological excavation and recording.	Moderate	Permanent Moderate adverse	N/A	None	No change	Neutral	Y	N	N
2296	TQ 67 SE 58	Mesolithic tranchet axe, Thong	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
2298	TQ 67 SE 71, ATT WSI no U	Iron Age Rectangular Enclosure	Medium	None	The setting would change as a result of utility works in close proximity, with associated noise,	Good Practice	Minor	Temporary Slight adverse	None, surrounding agricultural land will be reinstated during Operation	None	No change	Neutral	N	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
					lighting and visible construction activity.										
2308	TQ 67 SE 91	Sub-circular Iron Age to Roman enclosure and smaller circular enclosure	Medium	Asset would be removed during construction of southern tunnel entrance compound.	N/A due to physical removal of asset.	Archaeological excavation and recording.	Moderate	Permanent moderate adverse	N/A	None	No change	Neutral	Y	N	N
2311	TQ 67 SW 11	Romano-British coin (3 rd century.)	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
2313	TQ 67 SW 14	Roman coins found 1923	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
2329	Neolithic to Bronze Age	Findspots of a flint arrowhead and Late Bronze Age during evaluation at Cobham Golf Course	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral	N/A	N/A	N/A
2445	TQ 67 SW 461	Bronze Age Beaker pit - A2 Pepperhill to Cobham widening scheme	Negligible	This asset has previously been removed during archaeological excavation.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
2447	TQ 67 SW 464	Rectangular Cemetery Enclosure - A2 Pepperhill to Cobham widening scheme	Negligible	This asset has previously been removed during archaeological excavation. Although the HER records this feature within the Application Site,	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
				it was located beyond the Order Limits to the west.											
2461	TQ 77 SW 1041	Gadshill School Second World War air raid wardens post, Gravesend Road, Higham	Low	The weight of construction traffic passing overhead could potentially cause harm to this structure.	None	Historic Building Recording and reinforcement or remedial works if required	Moderate	Permanent slight adverse	None	None	No change	Neutral	N	N	N
2466	TQ 67 SE 1158	Chalk Second World War Defended Locality DL20	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral	N/A	N/A	N/A
2470	TQ 67 SW 1168	Tollgate Second World War Battle Headquarters, Gravesend	Negligible	This asset has been previously removed.	N/A	None	No change	Neutral	None	None	No change	Neutral	N/A	N/A	N/A
2491	TQ 67 SE 1162	Rochester Road Second World War road block, Chalk	Negligible	This asset has been previously removed.	N/A	None	No change	Neutral	None	None	No change	Neutral	N/A	N/A	N/A
2512	TQ 66 NE 113	Cobham Coal Mine, Scalers Hill, Cobham	Low	Potential below-ground remains of the mine (if present) would be removed during construction of road junction.	N/A due to physical removal of asset.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	None	None	No change	Neutral	Y	N	N
3107	TQ 67 SE 313	Late Neolithic/Early Bronze Age worked flints, east of Claylane Wood	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
3123	TQ 67 SE 323	A Levallois struck flint, Church Road, Tollgate	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
3124	TQ 67 SE 324	Bronze Age pit, Church Road, Tollgate	Negligible	N/A as asset has been previously removed by archaeological excavation.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
3126	TQ 67 SE 327	Roman activity, Henhurst Road	Low	Potential sections of the trackway survive within the Order Limits and would be removed during woodland planting and landscaping.	N/A due to physical removal.	Archaeological excavation and recording.	Minor	Permanent slight adverse	N/A due to physical removal	None	No change	Neutral	Y	N	Y
3128	TQ 66 NE 227	Medieval pits and ditches, Henshurst Road	Negligible	N/A as asset has been previously removed by archaeological excavation.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
3185	MKE88826	Northumberland Bottom	Low	Potential below-ground remains of the former farmstead would be removed during utility works and landscaping,	N/A due to physical removal.	Archaeological excavation and recording.	Moderate	Permanent slight adverse	N/A due to physical removal	None	No change	Neutral	Y	N	N
3443	MKE110617	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
3444	MKE110618	Roman copper alloy coin	Negligible	N/A as asset has been previously removed.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
3530	2019 Headland Geophysical Survey and ATT WSI no. U	Bronze Age Enclosure north of Shorne Ifield Road	Medium	None - asset will be preserved in situ and avoided by Ancient Woodland Mitigation Planting LE8.2	Removal of part of potentially associated asset 3741	Archaeological excavation and recorded of the associated asset being removed	Minor	Permanent Slight adverse	Replacement of open landscape with Ancient Woodland Mitigation Planting LE82	None	Minor	Slight adverse	N	N	N
3534	TQ 67 SE 326	During Channel Tunnel Rail Link works carried out by the Museum of London Archaeology Service three groups of Iron Age pits were found. This is where the easterly of the three pits clusters were found. Pottery and briquetage were found within the pits. T	Negligible	N/A as asset has been previously removed by archaeological excavation.	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
3535	TQ 67 SE 350	Medieval features along the A2 to Pepperhill to Cobham widening scheme, site J, Pond C and Bodey's Yard	Low	Part of the field system would be removed during tree planting and associated landscaping.	None	Archaeological excavation and recording.	Moderate	Permanent slight adverse	Change of use of part of the agricultural setting to woodland	None	Minor	Slight adverse	N	N	Y
3545	MKE114355	Mesolithic site on the Burnett, north of Inn on the Lake	Medium	None - no works would take place in this area and all vegetation here is being retained.	None	None	No change	Neutral	None	None	No change	Neutral	N	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
3852	LTC ATT WSI no. T, trenches 525, 538, 545	Pit and ditches of Middle Bronze Age to Iron Age date	Low	The asset will be completely removed as a result of a combination of the mains works area, utility working area and establishment of the A226 Gravesend Road compound	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal	N/A	N/A	N/A	Y	N	N
3854	LTC ATT WSI no. T trenches 521, 523, 528	Medieval activity south of Higham Road suggesting nearby settlement	Low	The asset will be completely removed as a result of a combination of the mains works area, utility working area and establishment of the A226 Gravesend Road compound	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal	N/A	N/A	N/A	Y	N	N
3640	Lower Thames Crossing Archaeological Trial Trenching	Buried Soils of potential Late Glacial/Upper Palaeolithic date	Medium	Parts of the buried soils may be removed by construction of ULH14 and establishment of Ancient Woodland Mitigation Planting LE82 Due to their nature, the remains are likely to continue outside the Order Limits and so this asset is unlikely to be completely removed	None	Archaeological excavation and recording	Moderate	Permanent Moderate adverse	None - setting remains as woodland where deposits are outside the Order Limits	None required	None	Neutral	N	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
3641	Lower Thames Crossing Archaeological Trial Trenching	Neolithic activity, pit containing large flint assemblage and pottery	Medium	The asset would be partially removed by multi-utility network works	Utility works taking place within and adjacent to the asset	Archaeological excavation and recording	Minor	Permanent slight adverse	Increase in noise and nearby traffic from presence of LTC A2 junction Change in setting to north and NW through replacement of open landscape with Ancient Woodland Mitigation Planting LE82	None	Minor	Slight adverse	N	Y	N
3642	Lower Thames Crossing Archaeological Trial Trenching	Early Prehistoric flint assemblage within quarry or sink hole	Medium	Removal through location within utility working area	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent moderate adverse	N/A due to physical removal during construction	None	No change	Neutral	Y	N	N
3643	Lower Thames Crossing Archaeological Trial Trenching	Buried soils of Mesolithic to Neolithic horizons of activity	Medium	Parts of the buried soils may be removed by construction of ULH14 Due to their nature, the remains are likely to continue outside the Order Limits and so this asset is unlikely to be completely removed	None	Archaeological excavation and recording	Moderate	Permanent Moderate adverse	None - setting remains as woodland where deposits are outside the Order Limits	None required	None	Neutral	N	Y	N
3644	Lower Thames Crossing Archaeological Trial Trenching	Bronze Age pit- possible waterhole	Low	Removal through the main route alignment	N/A due to physical removal	Archaeological excavation and recording for parts to be removed	Moderate	Permanent slight adverse	N/A due to physical removal during construction	None	No change	Neutral	Y	N	N
3650	Lower Thames Crossing	Multiperiod settlement	High	Approximately three quarters of the asset would	Construction works taking place within	Archaeological excavation and recording	Major	Permanent large adverse	The remainder of the asset preserved <i>in</i>	None	Minor	Slight adverse	N	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
	Archaeological Trial Trenching	activity west of Thong		be removed as a result of gas utility diversion works and construction of the main alignment The remainder of the asset would be preserved <i>in situ</i>	and adjacent to the asset				<i>situ</i> will benefit from open space provided as a buffer for Thong Conservation Area The presence of the operational alignment in the formerly open land to the west would have an adverse impact on the historical value of the asset by eroding the appreciability of the open landscape around it The effect is assessed to be minor rather than moderate due to the low degree of value that the surviving part of the asset would derive from its setting						
3655	Lower Thames Crossing Archaeological Trial Trenching	Romano-British cremation burial, isolated with possible association to former	Medium	Potential cemetery site to be impacted by excavation for ancient woodland tree planting for	Setting has already been impacted by proximity of Riverview Park settlement	Archaeological excavation and recording	Moderate	Permanent moderate adverse	Replacement of the open landscape with Ancient Woodland Mitigation Planting LE82	None	Minor	Slight adverse	N	N	Y

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
		settlement 1597		ecological mitigation	area of Gravesend which has severed any relationship with potentially associated settlement 1597										
3658	Lower Thames Crossing Archaeological Trial Trenching	Medieval quarrying	Low	Removal through the main route alignment	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal during construction	None	No change	Neutral	Y	N	N
3663	Lower Thames Crossing Archaeological Trial Trenching	Area of Mesolithic/Neolithic activity	Medium	The asset would be completely removed as a result of gas utility diversion works	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent Moderate adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	Y	N
3667	Lower Thames Crossing Archaeological Trial Trenching	Neolithic pit and flint	Medium	The asset would be completely removed during construction of the main alignment	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent Moderate adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	N
3737	Lower Thames Crossing Archaeological Trial Trenching	Mesolithic flint microlith identified in a ditch feature	Low	Only remains of ditch will be impacted by utilities working areas Flint has been removed	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal during construction	None	No change	Neutral	Y	Y	N
3738	Lower Thames Crossing Archaeological Trial Trenching	Residual Levallois Core of Neolithic or Bronze Age date	Low	Flint previously removed, considered in assessment for archaeological potential	N/A- flint previously removed	None	No change	Neutral	N/A flint previously removed	None	No change	Neutral	N/A	N/A	N/A
3740	ATT WSI no U	Multi-period settlement activity	Medium	Removal of majority of the asset as a result	Utility works taking place within and	Archaeological excavation and recording	Moderate	Permanent moderate adverse	Replacement of open landscape	None	Minor	Permanent Slight adverse	N	Y	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
				of gas utility works	adjacent to the asset				with Ancient Woodland Mitigation Planting LE82						
3741	Lower Thames Crossing Archaeological Trial Trenching WSI no U	Bronze Age to Iron Age trackway and undated pits and ditches	Low	Removal of part of the asset through a combination of utility working area and establishment of Ancient Woodland Mitigation Planting LE82	Utility works taking place within and adjacent to the asset	Archaeological excavation and recording	Moderate	Permanent slight adverse	Replacement of open landscape with Ancient Woodland Mitigation Planting LE82	None	Minor	Slight adverse	N	N	N
3742	Lower Thames Crossing Archaeological Trial Trenching	Bronze to Iron Age settlement complex	Medium	The majority of the asset would be removed by the construction of the southern tunnel entrance compound	Construction activity would take place within and adjacent to the asset	Archaeological excavation and recording and temporary fencing of the unaffected part of the asset	Moderate	Permanent Moderate adverse	Presence of operational alignment and landscaping in the vicinity	None	Minor	Slight adverse	N	N	N
3743	Lower Thames Crossing Archaeological Trial Trenching	Bronze Age to Iron Age ditch	Medium	Majority of the asset will be removed by establishment of the Shorne Ifield Road utility hub	Utility works taking place within and adjacent to the asset	Archaeological excavation and recording	Moderate	Permanent Moderate adverse	Replacement of open landscape with Ancient Woodland Mitigation Planting LE82	None	Minor	Slight adverse	N	Y	N
3745	ATT WSI no U	Undated cremations, cenotaph cremations, pits and ditches	Medium	Removal of majority of the asset as a result of establishment of Shorne Ifield Road utility hub	Utility works taking place within and adjacent to the asset	Archaeological excavation and recording	Moderate	Permanent Moderate adverse	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	N	Y	N
3749	ATT WSI no U	Iron Age granary, pits and undated posthole	Medium	Asset will be completely removed by a combination of ULH13 and Ancient Woodland	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent moderate adverse	N/A due to physical removal	N/A	N/A	N/A	Y	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
				Mitigation Planting LE82											
3751	ATT WSI no U	Roman enclosure	Medium	Removal of part of the asset through a combination of utility working area and establishment of Ancient Woodland Mitigation Planting LE82	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent moderate adverse	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	N/A due to physical removal	Y	N	N
3752	Lower Thames Crossing Archaeological Trial Trenching	Romano-British ditch, possible agricultural enclosure	Low	A small part of the asset will be impacted by the utility working area for removal of OHL and establishment of a utility access route	None	Archaeological excavation and recording	Minor	Permanent Slight adverse	None	None	No change	Neutral	N	Y	N
3756	ATT WSI no U	Medieval to Post-Medieval field boundary ditches	Low	Removal of part of the asset as a result of establishment of Shorne Ifield Road utility hub and Ancient Woodland Mitigation Planting LE82	Utility works taking place within and adjacent to the asset	Archaeological excavation and recording	Minor	Permanent Slight Adverse	Replacement of open landscape with Ancient Woodland Mitigation Planting LE82	None	Minor	Permanent Slight adverse	N	N	N
3767	Lower Thames Crossing Archaeological Trial Trenching	Colluvium deposits containing Palaeolithic struck flints possibly associated with a concentration of activity on higher ground of the dry	High	Uppermost elements of the deposits may be removed during establishment of utility working area and utility access route Effect is assessed to be slight rather than moderate as only	None	Archaeological excavation and recording	Minor	Permanent slight adverse	None	None	No change	Neutral	N	Y	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
		valley located south of the A226		a small proportion of the deposits is likely to be removed											
3769	Lower Thames Crossing Archaeological Trial Trenching	Mesolithic occupation site identified on a high point of the dry valley south of the A226	High	None	None	None required	No change	Neutral	None	None required	No change	Neutral	N	N	N
3770	Lower Thames Crossing Archaeological Trial Trenching	Isolated Bronze Age pit	Low	Removal through location within Southern tunnel entrance compound	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal during construction	None	No change	Neutral	Y	N	N
3772	Lower Thames Crossing Archaeological Trial Trenching	Deeply stratified colluvium dating from Mesolithic onwards	Medium	The asset would be partially impacted upon by the utility access routes, working areas and the establishment of the southern tunnel entrance compound This would likely remove the upper parts of the colluvium only for a part of its extent	None	Archaeological excavation and recording	Minor	Permanent slight adverse	None	None	No change	Neutral	N	N	N
3773	ATT WSI no T	Late Neolithic to Early Bronze Age burnt mound and Bronze Age cremation	Medium	The asset will be completely removed as a result of a combination of the mains works area, utility working area for OHL 1 and establishment of the Southern	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent moderate adverse	N/A due to physical removal	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
				Tunnel Entrance Compound											
3774	ATT WSI no T	Possible Burnt Mound	Medium	The asset will be removed by the utility working area and establishment of a utility access route	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent moderate adverse	N/A due to physical removal	N/A	N/A	N/A	Y	Y	N
3782	Lower Thames Crossing Archaeological Trial Trenching	Neolithic, Bronze Age and potentially associated undated activity Pits, ditches, flint and foundation/surface of rammed chalk and flint	Medium	The establishment of utility access routes would remove part of these archaeological remains in areas where the depth of colluvium is shallower, on the eastern side of the asset (on the assumption that deep soil mixing will not be required)	None	Archaeological excavation and recording	Minor	Permanent slight adverse	None	None	No change	Neutral	N	Y	N
3786	LTC ATT WSI no U	Large Late Bronze Age to Middle Iron Age boundary ditch	Low	The asset would be completely removed during the establishment of the Southern Tunnel Entrance Compound	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	N
3793	Lower Thames Crossing Archaeological Trial Trenching	Multi-period Bronze Age, Iron Age and Roman activity	Medium	Asset would be completely removed by establishment of the southern tunnel entrance compound and utility working area	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent Moderate adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
3796	Lower Thames Crossing Archaeological Trial Trenching	Undated pits and postholes	Low	The asset would be completely removed by establishment of the southern tunnel entrance compound	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal during construction	None	No change	Neutral	Y	N	N
3798	LTC geophysical survey and ATT WSI no T trenches 7, 9, 10, 12, 13 555, 556, 560	Area of dispersed undated ditches, pits and postholes north of the A226	Low	The asset will be completely removed as a result of a combination of the mains works area, utility working area and establishment of the Southern Tunnel Entrance Compound	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal	N/A	N/A	N/A	Y	N	N
3802	Lower Thames Crossing Archaeological Trial Trenching	Probable Middle Bronze Age cremation cemetery	Medium	Complete removal as a result of the establishment of the southern tunnel entrance compound	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent Moderate adverse	N/A due to physical removal during construction	None	No change	Neutral	Y	N	N
3804	Lower Thames Crossing Archaeological Trial Trenching	Partial Neonatal Skeleton of unknown date	Low	Removal within the main working area compound	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal during construction	None	No change	Neutral	Y	N	N
3805	Lower Thames Crossing Archaeological Trial Trenching	Area of dispersed undated, Prehistoric and Roman ditches and pits Roman metalled trackway / holloway	Low	Removal of part of the asset as a result of utility working area, utility access route and gas network G4	Construction /utility activity taking place in close proximity with associated noise and visual disturbance	Archaeological excavation and recording	Minor	Permanent Slight adverse	None	None	No change	Neutral	N	Y	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
3806	ATT WSI no T trenches 389, 390, 391	Undated quarry pits and ditches	Low	The asset will be completely removed as a result of a combination of the mains works area, utility working area and establishment of the Southern Tunnel Entrance Compound	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal	N/A	N/A	N/A	Y	Y	N
4064	MKE113261	Medieval silver coin	Negligible	N/A as asset has been previously removed	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N/A	N/A	N/A
4123	MKE100246	Post-Medieval chalk pit	Low	The upper layer of part of the asset would be truncated during groundworks for the establishment of LE87 Nitrogen Deposition Mitigation Plant After mitigation the effect is assessed as neutral rather than slight adverse, due to the low scale of impact to the overall asset	None	Archaeological excavation and recording	Negligible	Neutral	None	None	No change	Neutral	N	N	Y
4170	Late 19 th century OS maps	Site of well	Negligible	Potential truncated below-ground remains of the well beneath the A2 would be removed during construction of	N/A due to physical removal	None	Major	Permanent slight adverse	None	None	No change	Neutral	Y	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
				the main alignment											
4171	Late 19 th century OS maps	Site of former well now beneath A2	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral	N/A	N/A	N/A
4178	Late 19 th century OS maps	Site of pond	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral	N/A	N/A	N/A
4180	Late 19 th century OS maps	Potential below-ground remains of former poultry yard in Cobham Park	Low	Construction of Non Motorised Users (NMU) route along existing Public Right of Way (PRoW) may impact upon part of the potential remains	None	Archaeological excavation and recording	Minor	Permanent slight adverse	None	None	No change	Neutral	N	N	N
4181	Late 19 th century OS maps	Fishponds adjacent to the Inn on the Lake	Low	None	None	None	None	Neutral	None	None	None	Neutral	N/A	N/A	N/A
4182	Late 19 th century OS maps	Site of former sheep wash near St Thomas' Well and Cobham Park	Negligible	Asset would be removed during construction of main alignment	N/A due to physical removal	None	Major	Permanent slight adverse	N/A due to physical removal during construction	None	No change	Neutral	Y	N	N
4183	Late 19 th century OS maps	Site of quarry pit	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral	N/A	N/A	N/A
4185	Late 19 th century OS maps	Site of quarry pit	Negligible	Asset would be truncated during landscape tree planting	Tree planting would take place in vicinity	None	Moderate	Permanent slight adverse	Part of the surrounding agricultural land would be changed to a tree planting belt	None	Moderate	Neutral	N	N	Y
4186	Late 19 th century OS maps	Site of quarry pit	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral	N/A	N/A	N/A

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
4188	Late 19 th century OS maps	Site of quarry pit	Negligible	None	None	None	No change	Neutral	None	None	No change	Neutral	N/A	N/A	N/A
4189	Late 19 th century OS maps	Site of quarry pit	Negligible	Asset would be removed during utility work and subsequent landscaping	N/A due to physical removal	None	Major	Permanent slight adverse	N/A due to physical removal during construction	None	No change	Neutral	Y	N	N
4190	Late 19 th century OS maps	Site of quarry pit	Negligible	Asset would be completely removed by realignment of Thong Lane	N/A due to physical removal	None	Moderate	Neutral	None	None	No change	Neutral	Y	N	N
4192	OS mapping from 1888	Infilled Post-Medieval Clay Pit	Negligible	None	None	None required	None	Neutral	None	None required	None	Neutral	N/A	N/A	N/A
4415	ATT WSI no U	Large but shallow Late Bronze Age or Early Iron Age pit	Low	The asset would be completely removed during the establishment of the Southern Tunnel Entrance Compound	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent Slight Adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	N
4424	ATT WSI no U	Undated pits and ditches	Low	None	None	None required	None	No change	Neutral	None	No change	Neutral	N	N	N
4425	ATT WSI no U	Undated ditches, pit with burnt animal remains, pit or ditch terminus	Low	Utility works for gas network G4 will result in the removal of the majority of the undated features	Utility works taking place within and adjacent to the asset	Archaeological excavation and recording	Minor	Permanent Slight adverse	None	None	No change	Neutral	N	Y	N
4426	ATT WSI no T	Long undated ditch on a NNE-SSW alignment	Low	The asset will be completely removed as a result of a combination of the mains works area, utility working area and establishment of the Southern	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal	N/A	N/A	N/A	Y	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
				Tunnel Entrance Compound											
4427	LTC geophysical survey and ATT WSI no T, trench 388	Possible site of Roman building	Medium	The asset will be completely removed as a result of a combination of the mains works area, utility working area and establishment of the Southern Tunnel Entrance Compound	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent moderate adverse	N/A due to physical removal	N/A	N/A	N/A	Y	Y	N
4428	LTC identified - 2013 Google aerial imagery	Cropmark of a round barrow approx 26m in diameter, WSI area no T	Medium	The asset will be completely removed as a result of a combination of the mains works area, utility working area and establishment of the Southern Tunnel Entrance Compound	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent moderate adverse	N/A due to physical removal	N/A	N/A	N/A	Y	N	N
4429	LTC ATT WSI no T	Undated pits and ditches, one Bronze/Iron Age ditch	Low	The asset will be completely removed as a result of a combination of the mains works area, utility working area and establishment of the Southern Tunnel Entrance Compound	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal	N/A	N/A	N/A	Y	N	N
4430	LTC geophysical survey	Possible ring ditch 10m in diameter	Low	The asset will be completely removed as a result of a combination of the mains works	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal	N/A	N/A	N/A	Y	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
				area, utility working area and establishment of the Southern Tunnel Entrance Compound											
4483	MKE70957	Iron Age gold coin	Negligible	N/A as asset has been previously removed	N/A	None	No change	Neutral	N/A as asset has been previously removed	None	No change	Neutral	N	N	N
4513	MKE77420	Sarsen stones at the northern edge of Westfield Wood	Medium	The stones are located within the woodland areas, outside of the existing arable field They would therefore not be impacted upon by the establishment of the Nitrogen Deposition Compensation Area	None - assets are already within a woodland setting	None required	No change	Neutral	None	None	No change	Neutral	N	N	N
4553	MKE44049	Pilgrim's Way/North Downs Way	Medium	A very small overall part of below-ground remains associated with the asset (if such survives within the Order Limits) would be removed as a result of the establishment of the Nitrogen Deposition Compensation Area The effect is assessed as neutral due to the large scale of the asset relative to	None - the asset is a large landscape-scale asset and the creation of an area of woodland would not harm its value	Archaeological excavation and recording	Negligible	Neutral	None - the asset is a large landscape-scale asset and the presence of a new area of woodland would not harm its value	None	No change	Neutral	N	N	Y

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
				the impact following mitigation											
4554	MKE44113	Roman road; Rochester-Maidstone-Hastings	Medium	None - the asset follows the line of the modern day Warren Road It's interation with the Order Limits is through an entry point for construction vehicles from Warren Road, past Bluebell Hill House and onto the Bluebell Hill Site No changes to the modern road surface are required which may impact any earlier remains	None-increase in construction traffic does not alter the understanding of the Roman Road's path through the landscape	None	No change	Neutral	None	None	No change	Neutral	N	N	N
4555	MKE77414	Hollow way, Westfield Wood	Low	None- the asset is clipped slightly by the Order Limits and principally located within existing woodland which would not be removed	Works adjacent to the existing woodland, impacting the rural setting	None	Minor	Temporary slight adverse	None	None	No change	Neutral	N	N	N
4558	LTC ATT WSI V trench 80	Probable Late Iron Age to Roman cremation cemetery	Medium	The asset will be completely removed as a result of gas works and utility working area	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent moderate adverse	N/A due to physical removal	NA	N/A	N/A	Y	Y	N
4579	MKE115883	Second World War road block buoys,	Low	None- the asset has previously been removed	None- the asset has previously	None	None	Neutral	None- the asset has previously been removed No changes to	None	None	Neutral	N	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
		Gravesend Road, Chalk			been removed				the alignment of Gravesend Road would occur						
4595	LTCC ATT WSI T trenches 530, 536, 541	Multiple phases of Prehistoric activity associated with buried land surfaces within colluvial layers 4594	Medium	The asset will be completely removed as a result of a combination of the mains works area, utility working area and establishment of the A226 Gravesend Road compound	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent moderate adverse	N/A due to physical removal	N/A	N/A	N/A	Y	N	N
4596	LTC ATT WSI V trenches 81, 82, 87, 88	Possible trackway/Holloway	Low	The asset will be completely removed as a result of the main works area and establishment of the LTC A2 Junction	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal	NA	NA	NA	Y	N	N
4608	Google Earth	Cropmarks of a possible trackway	Low	The parts of the asset within the Order Limits would be removed during construction of the southern tunnel portal compound and multi-network utility works	Works within and adjacent to the asset and removal of associated features	Archaeological excavation and recording	Moderate	Permanent slight adverse	None	None	No change	Neutral	N	N	N
4609	Google Earth	Cropmarks of a short section of a possible trackway	Low	The parts of the asset within the Order Limits would be removed during construction of the southern	Works within and adjacent to the asset and removal of associated features	Archaeological excavation and recording	Moderate	Permanent slight adverse	None	None	No change	Neutral	N	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
				tunnel portal compound											
4610	LTC interpretation of multiple data sources	Below-ground remains of a holloway with metalled sections and flanking ditches	Low	The parts of the asset within the Order Limits would be removed during construction of the southern tunnel portal compound, multi-network utility works and establishment of utility haul routes	Works within and adjacent to the asset and removal of associated features	Archaeological excavation and recording	Moderate	Permanent slight adverse	None	None	No change	Neutral	N	N	N
4611	Google Earth	Cropmarks of a possible remnant of an enclosure extending under Thong Lane		The asset would be completely removed during construction of the southern tunnel portal compound	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal	NA	N/A	N/A	Y	Y	N
4612	Google Earth	Series of linear cropmarks on different alignments	Low	The asset would be completely removed during construction of the southern tunnel portal compound	N/A due to physical removal	Archaeological excavation and recording	Moderate	Permanent slight adverse	N/A due to physical removal	NA	N/A	N/A	Y	Y	N
4619	LTC identified from multiple data sources	Chalk Parish Boundary	Medium	Construction of the Project would result in the removal of part of the medium-value non-designated Chalk parish boundary (4610), which is recorded crossing part of the Order Limits	Construction works taking place within and in the vicinity of the asset	Archaeological excavation and recording	Minor	Permanent slight adverse	The operational alignment would create a large modern element cutting across the associated landscape	None	Minor	Permanent slight adverse	N	N	N

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect	Completely removed by	Utility impact only?	Landscape impact only?
4745	MKE84636	Great Culand, former Medieval to Modern manor and farmstead	Medium	The establishment of the Nitrogen Deposition Compensation Area at Burham, to the west of Kit's Coty, would result in the complete removal of the medium-value Great Culand (asset 4745, below-ground remains of the former Medieval to Modern manor and farmstead) This impact is assessed base on the worst-case scenario and it is anticipated that it should be possible to preserve this asset in situ a woodland glade or similar open space	N/A due to physical removal during construction	Archaeological excavation and recording	Moderate	Permanent Moderate Adverse	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	N/A due to physical removal during construction	Y	N	Y
4760	TQ 76 SW 12	Mineral tramway tunnel (Post-Medieval)	Medium	None - the asset would not be impacted upon by planting for the Nitrogen Deposition Compensation Area	None	None required	No change	Neutral	None	None	No change	Neutral	N	N	N

Table 1.15 Non-Designated archaeology outside the Order Limits assessment table: South of the River Thames

Project ID	Source reference	Name	Value	Construction physical impact	Construction setting impact	Construction mitigation	Construction impact	Construction effect	Operation setting impact	Operation mitigation	Operation impact	Operation effect
4758	MKE90893	20TH Century Tramway tunnel Burham	Low	None	The tunnel was intended to reach the Great Culand chalk pit, which is formerly located within the Order Limits of the western BlueBell Hill Site. However, the tunnel and associated tramway never made it that far, resulting in no physical impact. However, the setting of the asset extends to the Order Limits due to the associated intended route of travel for the asset, although this does not contribute a large part to the asset's significance which principal comes from its evidential value through its architectural methods.	None	No change	No change- construction does not alter the understanding of the proposed course of travel through the landscape.	None	None required	No change	Neutral
4412	Lower Thames Crossing Archaeological Trial Trenching	Curvilinear enclosure	Medium	None	None	None required	No change	Neutral	None	None required	No change	Neutral

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