



The Sizewell C Project

6.11 Volume 10 Project-Wide, Cumulative and Transboundary Effects

Chapter 2 Inter-relationship Effects

Appendix 2A Interrelationship effects on human and other receptors

Revision: 1.0
Applicable Regulation: Regulation 5(2)(a)
PINS Reference Number: EN010012

May 2020

Planning Act 2008
Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009





VOLUME 10, CHAPTER 2, APPENDIX 2A: LOCATION OF INTER-
RELATIONSHIP EFFECTS ASSESSMENT



Contents

Table 2A.1: Location of inter-relationship effects assessments 2

Plates

None Provided.

Figures

None Provided.

Table 2A.1: Location of inter-relationship effects assessments

Receptor	Description
Quarries/finite sources of virgin materials	<p>The assessment of effects on quarries/finite sources of virgin material is presented within the Conventional Waste Management chapter (Volume 2, Chapter 8 of the ES) which considers the effects associated with reduction in availability of finite sources of virgin materials.</p> <p>The assessment of effects on quarries/finite sources of virgin material presented within the Geology and Land Quality chapters (Volume 2, Chapter 18 and Volumes 3 to 9, Chapter 11 of the ES) considers the potential effects of loss, damage or sterilisation of mineral resources through contamination risk.</p> <p>There is not considered to be any further inter-relationships between these two assessments and no inter-relationship effects beyond those assessed within these chapters are likely.</p>
Human receptors (Population)	<p>The assessment presented within the socio-economics assessment (Volume 2, Chapter of the ES) considers the effects of population change and dynamics.</p> <p>The assessment presented in the Health and Wellbeing assessments (Volume 2, Chapter 28 of the ES) consider the potential effects of changes in air quality, noise exposure and socio-economic factors on health. The assessment also considers quality of life and wellbeing.</p> <p>There is not considered to be any further inter-relationships between these assessments than those assessed in the Health and Wellbeing assessments (Volume 2, Chapter 28 of the ES).</p>
Transport network	<p>The assessment presented in the transport chapter (Volume 2, Chapter 10 of the ES) considers the potential effects associated with severance, pedestrian delay, amenity, fear and intimidation, driver delay, and accidents and safety.</p> <p>The assessment presented in the landscape and visual assessments (Volume 2, Chapter 13 and Volumes 3 to 9, Chapter 6 of the ES) considers the visual effects on users of the transport network in proximity to Sizewell C Project sites.</p> <p>No further inter-relationship effects beyond those assessed within these chapters are likely.</p>
Residential receptors	<p>The assessments presented within the noise and vibration assessments (Volume 2, Chapter 11 and Volumes 3 to 9, Chapter 4 of the ES) consider noise and vibration effects at representative receptor locations.</p> <p>The assessments presented within air quality assessments (Volume 2, Chapter 12 and Volumes 3 to 9, Chapter 5 of the ES) consider air quality effects at representative receptor locations.</p> <p>The assessments presented within landscape and visual assessments (Volume 2, Chapter 13 and Volumes 3 to 9, Chapter 6 of the ES) consider visual effects within defined visual receptor groups, a zone of theoretical visibility and a zone of visual influence.</p> <p>The potential inter-relationship effects of these assessments on residential receptors are not considered further within any technical assessments in Volumes 2 to 9 of the ES.</p>
Commercial facilities	<p>The assessments presented within the noise and vibration assessments (Volume 2, Chapter 11 and Volumes 3 to 9, Chapter 4 of the ES) consider noise and vibration effects at representative receptor locations.</p>

Receptor	Description
	<p>The assessments presented within air quality assessments (Volume 2, Chapter 12 and Volumes 3 to 9, Chapter 5 of the ES) consider air quality effects at representative receptor locations.</p> <p>The assessments presented within landscape and visual assessments (Volume 2, Chapter 13 and Volumes 3 to 9, Chapter 6 of the ES) consider visual effects within defined visual receptor groups, a zone of theoretical visibility and a zone of visual influence.</p> <p>The potential inter-relationship effects of these assessments on commercial facilities are not considered further within any technical assessments in Volumes 2 to 9 of the ES.</p>
Community facilities (Sports and Social Club / Campsite)	<p>The assessments presented within the noise and vibration assessments (Volume 2, Chapter 11 and Volumes 3 to 9, Chapter 4 of the ES) consider noise and vibration effects at representative receptor locations.</p> <p>The assessments presented within air quality assessments (Volume 2, Chapter 12 and Volumes 3 to 9, Chapter 5 of the ES) consider air quality effects at representative receptor locations.</p> <p>The assessments presented within landscape and visual assessments (Volume 2, Chapter 13 and Volumes 3 to 9, Chapter 6 of the ES) consider visual effects within defined visual receptor groups, a zone of theoretical visibility and a zone of visual influence.</p> <p>The potential inter-relationship effects of these assessments on community facilities are not considered further within any technical assessments in Volumes 2 to 9 of the ES.</p>
Schools	<p>The assessments presented within the noise and vibration assessments (Volume 2, Chapter 11 and Volumes 3 to 9, Chapter 4 of the ES) consider noise and vibration effects at representative receptor locations.</p> <p>The assessments presented within air quality assessments (Volume 2, Chapter 12 and Volumes 3 to 9, Chapter 5 of the ES) consider air quality effects at representative receptor locations.</p> <p>The assessments presented within landscape and visual assessments (Volume 2, Chapter 13 and Volumes 3 to 9, Chapter 6 of the ES) consider visual effects within defined visual receptor groups, a zone of theoretical visibility and a zone of visual influence.</p> <p>The potential inter-relationship effects of these assessments on schools are not considered further within any technical assessments in Volumes 2 to 9 of the ES.</p>
Visual Receptor Areas	<p>The effects on visual receptors areas are considered within the landscape and visual assessments (Volume 2, Chapter 13 and Volumes 3 to 9, Chapter 6 of the ES).</p> <p>No further inter-relationship effects beyond those assessed within this chapter are likely.</p>
Important Ecological Features	<p>The terrestrial ecology assessments (Volume 2, Chapter 14 and Volumes 3 to 9, Chapter 6 of the ES) presents the assessment of effects on terrestrial habitats and species.</p> <p>The marine ecology assessment presents (Volume 2, Chapter 22 of the ES) the assessment of inter-relationship effects on marine habitats and species.</p>

Receptor	Description
	<p>The Soils and Agriculture assessments (Volume 2, Chapter 17 and Volumes 3 to 9, Chapter 10 of the ES) only considered the potential for the spread of invasive weeds and species and the associated effects on surrounding land uses.</p> <p>No further inter-relationship effects beyond those assessed within these chapters are likely.</p>
Statutory designated site	<p>The terrestrial ecology assessments (Volume 2, Chapter 14 and Volumes 3 to 9, Chapter 6 of the ES) presents the assessment of inter-relationship effects on statutory designated sites within the terrestrial environment.</p> <p>The coastal geomorphology and hydrodynamics assessment (Volume 2, Chapter 22 of the ES) presents the assessment of inter-relationship effects on non-statutory designated sites.</p> <p>No further inter-relationship effects beyond those assessed within these chapters are likely.</p>
Non-statutory designated sites	<p>The terrestrial ecology assessments (Volume 2, Chapter 14 and Volumes 3 to 9, Chapter 6 of the ES) presents the assessment of inter-relationship effects on non-statutory designated sites.</p> <p>The coastal geomorphology and hydrodynamics assessment (Volume 2, Chapter 22 of the ES) presents the assessment of inter-relationship effects on non-statutory designated sites.</p> <p>No further inter-relationship effects beyond those assessed within these chapters are likely.</p>
Public Rights of Way	<p>The amenity and recreation assessments (Volume 2, Chapter 15 and Volume 3 to 9, Chapter 8 of the ES) consider the potential inter-relationship effects on public rights of way. No further inter-relationship effects beyond those assessed within these chapters are likely.</p>
Dark Sky Discovery Sites	<p>The amenity and recreation assessment (Volume 2, Chapter 15 of the ES) considers the potential inter-relationship effects on dark sky discovery sites. No further inter-relationship effects beyond those assessed within this chapter are likely.</p>
Amenity and Recreation Receptor Groups	<p>The amenity and recreation assessments (Volume 2, Chapter 15 and Volume 3 to 9, Chapter 8 of the ES) consider the potential inter-relationship effects on amenity and recreation receptor groups. No further inter-relationship effects beyond those assessed within these chapters are likely.</p>
Long Distance Linear Recreational Routes	<p>The amenity and recreation assessments (Volume 2, Chapter 15 and Volume 3 to 9, Chapter 8 of the ES) consider the potential inter-relationship effects on long distance linear recreational routes. No further inter-relationship effects beyond those assessed within these chapters are likely.</p>
Designated heritage assets	<p>The Terrestrial Historic environment assessments (Volume 2, Chapter 16 and Volumes 3 to 9, Chapter 9 of the ES) consider the potential inter-relationship effects on designated heritage assets. No further inter-relationship effects beyond those assessed within these chapters are likely.</p>
Non-designated heritage assets	<p>The Terrestrial Historic environment assessments (Volume 2, Chapter 16 and Volumes 3 to 9, Chapter 9 of the ES) consider the potential inter-relationship effects on non-designated heritage assets. No further inter-relationship effects beyond those assessed within these chapters are likely.</p>

Receptor	Description
Archaeology	<p>The Terrestrial Historic environment assessments (Volume 2, Chapter 16 and Volumes 3 to 9, Chapter 9 of the ES) consider the potential inter-relationship effects on archaeology within the terrestrial environment.</p> <p>The Marine Historic environment assessments (Volume 2, Chapter 23 of the ES) consider the potential inter-relationship effects on archaeology within the marine environment.</p> <p>No further inter-relationship effects beyond those assessed within these chapters are likely.</p>
Soil resources (Best and Most Versatile Land)	<p>The soils and agriculture assessments (Volume 2, Chapter 17 and Volumes 3 to 9, Chapter 10 of the ES) consider the potential inter-relationship effects on loss of resource.</p> <p>The geology and land quality assessments (Volume 2, Chapter 18 and Volumes 3 to 9, Chapter 11 of the ES) consider the potential inter-relationship effects on contamination of resource.</p> <p>No further inter-relationship effects beyond those assessed within these chapters are likely.</p>
Agricultural Operations / Land holdings	<p>The soils and agriculture assessments (Volume 2, Chapter 17 and Volumes 3 to 9, Chapter 10 of the ES) consider the potential inter-relationship effects on agricultural operations/land holdings. No further inter-relationship effects beyond those assessed within these chapters are likely.</p>
Geology	<p>The Geology and Land quality assessments (Volume 2, Chapter 18 and Volumes 3 to 9, Chapter 11 of the ES) consider the potential inter-relationship effects on geology. No further inter-relationship effects beyond those assessed within these chapters are likely.</p>
Livestock	<p>The Geology and Land quality assessments (Volume 2, Chapter 18 and Volumes 3 to 9, Chapter 11 of the ES) consider the potential inter-relationship effects on livestock.</p> <p>No further inter-relationship effects beyond those assessed within these chapters are likely.</p>
Groundwater	<p>The groundwater and surface water assessments (Volume 2, Chapter 19 and Volumes 3 to 9, Chapter 12 of the ES) consider the potential inter-relationship effects on groundwater. No further inter-relationship effects beyond those assessed within these chapters are likely.</p>
Surface Water	<p>The groundwater and surface water assessments (Volume 2, Chapter 19 and Volumes 3 to 9, Chapter 12 of the ES) consider the potential inter-relationship effects on surface water. No further inter-relationship effects beyond those assessed within these chapters are likely.</p>
Existing Buildings (property)	<p>The Geology and Land quality assessments (Volume 2, Chapter 18 and Volumes 3 to 9, Chapter 11 of the ES) consider the potential inter-relationship effects on existing buildings (property). No further inter-relationship effects beyond those assessed within these chapters are likely.</p>
Marine water quality and sediment	<p>The marine water quality assessment (Volume 2, Chapter 21 of the ES) presents and assessment of effects on marine water quality and sediment. No further inter-relationship effects beyond those assessed within this chapter are likely.</p>

Receptor	Description
Fisheries	The marine ecology and fisheries assessment presented in Volume 2, Chapter 22 of the ES considers the effects on commercial and recreation fisheries. No further inter-relationship effects beyond those assessed within this chapter are likely.
Passing, fishing & recreational vessels	<p>The marine navigation assessment (Volume 2, Chapter 24 of the ES) considers the potential disruption to existing activities.</p> <p>The amenity and recreation assessment for the main development site (Volume 2, Chapter 15 of the ES) considers the effects on users of offshore recreational resources.</p> <p>There is not considered to be any further inter-relationships between these two assessments and no inter-relationship effects beyond those assessed within these chapters are likely.</p>
Non-human biota	The radiological effects assessment (Volume 2, Chapter 25 of the ES) considers effects associated with the discharge of low levels of radioactive gaseous and aqueous effluents on terrestrial, marine, coastal, freshwater and marshland habitats.



VOLUME 10, CHAPTER 2, APPENDIX 2B: ASSESSMENT OF INTER-
RELATIONSHIP EFFECTS ON RESIDENTIAL PROPERTIES, COMMERCIAL
FACILITIES, COMMUNITY FACILITIES AND SCHOOLS

Contents

Table 2B.1: Potential for inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the main development site 1

Table 2B.2: Potential for inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the northern park and ride..... 31

Table 2B.3: Inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the southern park and ride..... 34

Table 2B.4: Inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the two village bypass..... 37

Table 2B.5: Inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the Sizewell link road 41

Table 2B.6: Inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the Yoxford roundabout and other highway improvements 44

Table 2B.7: Inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the freight management facility 47

Table 2B.8: Inter-relationship effects on residential receptors , commercial facilities, community facilities and schools from activity at the rail proposals 49

Table 2B.1: Potential for inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the main development site

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p><u>Abbey Cottage.</u></p> <p><u>Figure 1.7 – main development site 1.</u></p> <p><u>Noise and Vibration - Receptor 1.</u></p> <p><u>Air Quality – Receptor LE28.</u></p> <p><u>Landscape and Visual – Receptor group 14.</u></p>	<p>Construction</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A (Moderate adverse, significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) (Minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 3 and 4 and Phase 5 (average day) (Negligible, not significant)</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (Moderate adverse, significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).</p> <p>Construction vibration when vibratory compaction is occurring in Phase 1 and 2 and during preparation of LEEIE (Minor adverse, not significant).</p> <p>Construction vibration during breaking out and soil spreading during Phase 5 (Negligible, not significant).</p> <p>Construction road traffic on surrounding network (Negligible or minor, not significant).</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	<p>Views of construction (Major-moderate, adverse, significant).</p>	<p>There is high potential for combined effects arising from noise and vibration, air quality and views on construction on the receptor Abbey Cottage. Combined, these effects are likely to lead to an increased sense of disturbance during construction and an additional significant adverse inter-relationship effect is likely.</p>

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Moderate, adverse, not significant).	There is low potential for combined effects from noise and vibration, and views of construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptor at Abbey Cottage during the operation and so additional significant adverse inter-relationship effect is unlikely.
	Operational road traffic noise during 2034 (Negligible, not significant)			
1 Upper Abbey Farmhouse.	Construction			
Figure 1.7 – main development site 4. Noise and Vibration – No corresponding residential receptor.	Not assessed during construction due to the nature of the receptor	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction (Major -moderate, adverse, significant).	There is high potential for combined effects arising from air quality and views on construction on the receptor 1 Upper Abbey Farmhouse. Combined, these effects are likely to lead to an increased sense of disturbance during construction and an additional significant adverse inter-relationship effect is likely.
	Operation	Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).		
Air Quality – Receptors LE42.	Noise during the normal operation of the power station (negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Moderate, adverse, not significant).	There is low potential for combined effects on the receptor 1 Upper Abbey Farmhouse and so no additional significant adverse inter-relationship effect is likely during operation.
Landscape and Visual – Receptor group 14.	Noise during power station operation plus back generator testing (minor adverse, not significant).			
	Operational road traffic noise during 2034 (Negligible, not significant)			
Upper Abbey Farmhouse.	Construction			
Figure 1.7 – main development site 3. Noise and Vibration – No corresponding residential receptor.	Not assessed during construction due to the nature of the receptor	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction (Major to moderate, adverse, significant).	There is high potential for combined effects arising from air quality and views on construction on the receptor Upper Abbey Farmhouse. Combined, these effects are likely to lead to an increased sense of disturbance during construction and an additional significant adverse inter-relationship effect is likely.
	Operation	Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).		
Air Quality – LE42.	Noise during the normal operation of the power station (negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Moderate, adverse, not significant).	There is low potential for combined effects on the receptor Upper Abbey Farmhouse and so no additional significant adverse inter-relationship effect is likely during operation.
Landscape and Visual – Receptor group 14.	Noise during power station operation plus back generator testing (minor adverse, not significant).			
	Operational road traffic noise during 2034 (Negligible, not significant)			
Lower Abbey Farm.	Construction			
Figure 1.7 – main development site 5.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A (Moderate adverse, significant).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction (Major -moderate, adverse, significant).	There is high potential for combined effects from noise, air quality and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for the receptor at Lower Abbey Farm during the construction phase and an additional significant adverse inter-relationship effect is likely.

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p><u>Noise and Vibration</u> – Receptor 2.</p> <p><u>Air Quality</u> – Receptor LE25.</p> <p><u>Landscape and Visual</u> – Receptor group 14.</p>	<p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) (Minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (Moderate adverse, significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).</p> <p>Construction vibration during phases 1, 2 , 5 and during preparation of the LEEIE(Negligible, not significant).</p> <p>Construction road traffic on surrounding network (Negligible or minor, not significant)</p>	<p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>		
	<p>Operation</p>			
	<p>Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).</p>	<p>Exhaust emissions from combustion emissions during operation (Negligible, not significant).</p>	<p>Views of operation (Moderate, adverse, not significant).</p>	<p>There is low potential for combined effects from noise and vibration and views of construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at Lower Abbey during operation and so additional significant adverse inter-relationship effect is unlikely.</p>
<p><u>2 Upper Abbey Farmhouse.</u></p> <p><u>Figure 1.7</u> – main development site 2.</p> <p><u>Noise and Vibration</u> – No corresponding residential receptor.</p>	<p>Construction</p> <p>Not assessed during construction due to the nature of the receptor.</p> <p>Operation</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	<p>Views of construction (Major to major-moderate, adverse, significant).</p>	<p>There is a high potential for combined effects from air quality and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at 2 Upper Abbey Farmhouse during the construction phase and an additional significant adverse inter-relationship effect is likely.</p>

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p><u>Air Quality</u> – Receptor LE48.</p> <p><u>Landscape and Visual</u> – Receptor group 11.</p>	<p>Noise during the normal operation of the power station (negligible, not significant).</p> <p>Noise during power station operation plus back generator testing (minor adverse, not significant).</p> <p>Operational road traffic noise during 2034 (Negligible, not significant)</p>	<p>Exhaust emissions from combustion emissions during operation (Negligible, not significant).</p>	<p>Views of operation (Major-moderate to moderate, adverse, significant).</p>	<p>There is high potential for combined effects on receptors at 2 Upper Abbey Farmhouse and so additional significant adverse inter-relationship effects are likely during operation.</p>
<p>Abbey Road, Leiston.</p> <p>Figure 1.7 – main development site 6.</p> <p><u>Noise and Vibration</u> – Receptor 3.</p> <p><u>Air Quality</u> – Receptor LE2.</p> <p><u>Landscape and Visual</u> – Receptor group 16.</p>	<p>Construction</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A (Moderate adverse, significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4, and Phase 5 (average day) (Negligible, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (Moderate adverse, significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles (Negligible, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling. (Negligible, not significant).</p> <p>Construction noise during the night (2300-0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) (Negligible, not significant).</p> <p>Construction Vibration during compaction work in Phases 1 and 2 and during preparation of LEEIE and during Phase 5 (Negligible, not significant).</p> <p>Road traffic on surrounding network during 2023 (receptors within the 55db contours) (Moderate adverse, significant).</p> <p>Construction road traffic on surrounding network during 2028 (Negligible or minor, not significant).</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	<p>Views of construction (Moderate, adverse, not significant).</p>	<p>There is high potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptor at Abbey Road, Leiston during the construction phase and an additional significant adverse inter-relationship effect is likely.</p>

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Negligible, not significant).	There is low potential for combined effects on receptors at Abbey Road and so no additional significant adverse inter-relationship effect is likely during operation.
Ash Wood Cottages.	Construction			
Figure 1.7 – main development site 7. Noise and Vibration – Receptor 4. Air Quality – Receptor LE25. Landscape and Visual – Receptor group 11.	<p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A and Phase 1B/2 (Moderate adverse, significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 3 and 4 and Phase 5 (average day) (Minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (Moderate, significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles (Moderate adverse, significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Moderate adverse, significant).</p> <p>Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) (Negligible, not significant).</p> <p>Construction vibration when vibratory compaction is occurring in Phase 1 and 2 (Minor adverse, not significant).</p> <p>Construction vibration during breaking out and soil spreading during Phase 5 (Negligible, not significant).</p> <p>Construction road traffic on surrounding network (Negligible or minor, not significant).</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	Views of construction (Major to major-moderate, adverse, significant).	There is high potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are likely to lead to an increased sense of disturbance for receptors at Ash Wood Cottages during the construction phase and an additional significant adverse inter-relationship effect is likely.
	Operation			

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>Noise during the normal operation of the power station and operation plus back generator testing (Low or negligible, not significant).</p> <p>Operational road traffic noise during 2034 (Negligible, not significant)</p>	<p>Exhaust emissions from combustion emissions during operation (Negligible, not significant).</p>	<p>Views of operation (Major-moderate to moderate, adverse, significant).</p>	<p>There is high potential for combined effects from noise and views of Sizewell C. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptor at Ash Wood Cottages during the operational phase and an additional significant adverse inter-relationship effect is likely.</p>
<p><u>Barley Rise.</u></p> <p>Figure 1.7 – main development site 8.</p> <p><u>Noise and Vibration</u> – Receptor 5.</p> <p><u>Air Quality</u> – Receptor LE37.</p> <p><u>Landscape and Visual</u> – Receptor group 19.</p>	<p>Construction</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling (Minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during preparation of LEEIE (Negligible, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during the early and later years Operations (Negligible, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement average day (Negligible, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement busiest day (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles (Negligible, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).</p> <p>Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) (Negligible, not significant).</p> <p>Construction vibration during phases 1 and 2, and during preparation of the LEEIE and during Phase 5 (Negligible, not significant).</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	<p>Views of construction (Moderate, adverse, not significant).</p>	<p>There is low potential for combined effects from noise and vibration, air quality and vibration and views of construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptor at Barley Rise during the construction phase and so additional significant adverse inter-relationship effect is unlikely.</p>

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	Construction road traffic on surrounding network during 2023 and 2028 (Negligible or minor, not significant).			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Moderate-slight, adverse, not significant).	There is low potential for combined effects from noise and views of Sizewell C. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptor at Barley Rise during the operational phase and so additional significant adverse inter-relationship effect is unlikely.
<u>Common Cottages.</u>	Construction			
Figure 1.7 – main development site 9.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During all construction Phases (Minor adverse, not significant).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction (Major to major-moderate, adverse, significant).	There is high potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are likely to lead to an increased sense of disturbance for receptor at Common Cottages during the construction phase and an additional significant adverse inter-relationship effect is likely.
<u>Noise and Vibration</u> – Receptor 6.	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles (Minor adverse, not significant).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).		
<u>Air Quality</u> – Receptor LE54.	Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Minor adverse, not significant).			
<u>Landscape and Visual</u> – Receptor group 15.	Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Minor adverse, not significant).			
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) (Negligible, not significant).			
	Construction vibration during compaction work in Phases 1 and 2 and during preparation of LEEIE and during Phase 5 (Negligible, not significant).			
	Road traffic on surrounding network during 2023 (Moderate adverse, significant).			
	Construction road traffic on surrounding network during 2028 (Negligible or minor, not significant).			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Major-moderate, adverse, significant).	There is a high potential for combined effects from noise and views of Sizewell C. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptor at Common Cottages during the operational phase and so additional significant adverse inter-relationship effect is likely.
<u>Crown Lodge.</u>	Construction			
Figure 1.7 – main development site 11.	Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling (Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction (Moderate, adverse, not significant).	There is low potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are unlikely to lead to a slightly increased sense of disturbance for receptor at Crown Lodge during the construction

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p><u>Noise and Vibration</u> – Receptor 7.</p> <p><u>Air Quality</u> – Receptor LE38.</p> <p><u>Landscape and Visual</u> – Receptor group 16.</p>	<p>Construction noise during the day (0700-2300) as dictated by LEEIE during preparation of LEEIE (Negligible, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during the Early Years Operations (Negligible, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement (Negligible, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles (Negligible, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).</p> <p>Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) (Negligible, not significant)</p> <p>Construction vibration during compaction work in Phases 1 and 2 and during preparation of LEEIE (Minor adverse, not significant).</p> <p>Construction vibration during breaking out and soil spreading during Phase 5 (Negligible, not significant).</p> <p>Construction road traffic on surrounding network during 2023 and 2028 (Negligible or minor, not significant).</p>	<p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (negligible, not significant).</p>		<p>phase and so additional significant adverse inter-relationship effect is unlikely.</p>
	<p>Operation</p> <p>Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).</p>	<p>Exhaust emissions from combustion emissions during operation (Negligible, not significant).</p>	<p>Views of operation (Negligible, not significant).</p>	<p>There is low potential for combined effects on receptors at Crown Lodge and so no additional significant adverse inter-relationship effect is likely during operation.</p>
<p><u>Eastbridge</u></p> <p><u>Figure 1.7</u> – main development site 12.</p> <p><u>Noise and Vibration</u> – Receptor 8.</p>	<p>Construction</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A (Minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	<p>Views of construction (Major to major-moderate, adverse, significant).</p>	<p>There is high potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Eastbridge during the construction phase and an additional significant adverse inter-relationship effect is likely.</p>

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p><u>Air Quality</u> – Receptor LE29.</p> <p><u>Landscape and Visual</u> – Receptor group 10.</p>	<p>activities on LEEIE) During Phase 1B/2, Phase 3 and 4, and Phase 5 (average day) (Negligible, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (Negligible, not significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).</p> <p>Construction vibration during Phases 1, 2, 5 and during preparation of LEEIE (Negligible, not significant).</p> <p>Construction road traffic on surrounding network during 2023 and 2028 (Negligible or minor adverse, not significant).</p>			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Major-moderate to moderate, adverse, significant).	There is high potential for combined effects arising from noise and views of the operational site. Combined, these effects are likely to lead to an increased sense of disturbance for receptors at Eastbridge during the operational phase and so an additional significant adverse inter-relationship effect is likely.
<p><u>Grimseys Lane.</u></p> <p>Figure 1.7 – main development site 13.</p> <p><u>Noise and Vibration</u> – Receptor 9.</p> <p><u>Air Quality</u> – Receptor LE36.</p> <p><u>Landscape and Visual</u> – Receptor group 19.</p>	<p>Construction</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling (Minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during preparation of LEEIE (Minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during the Early Years Operations (Minor adverse, not significant).</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	Views of construction (Moderate, adverse, not significant).	There is low potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at Grimseys Lane during the construction phase and so additional significant adverse inter-relationship effect is unlikely.

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement average day (Negligible, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement busiest day (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).</p> <p>Construction vibration during Phases 1, 2 5 and during preparation of the LEEIE (Negligible, not significant).</p> <p>Construction road traffic on surrounding network during 2023 and 2028 (Negligible or minor, not significant).</p>			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Moderate-slight, adverse, not significant).	There is low potential for combined effects arising from noise and views of the operational site. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at Grimseys Lane during the operational phase and so additional significant adverse inter-relationship effect is unlikely.
158 King George's Avenue.	Construction			
Figure 1.7 – main development site 14.	Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling (Minor adverse, not significant).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction (Moderate, adverse, not significant).	There is high potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are likely to lead to an increased sense of disturbance for receptors at 158 King George's Avenue during the construction phase and an additional significant adverse inter-relationship effect is likely.
Noise and Vibration – Receptor 12.	Construction noise during the day (0700-2300) as dictated by LEEIE during preparation of LEEIE (Minor adverse, not significant).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).		
Air Quality – Receptor LE36.	Construction noise during the day (0700-2300) as dictated by LEEIE during the Early Years Operations (Negligible, not significant).			

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<u>Landscape and Visual</u> – Receptor group 16.	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement average day (Negligible, not significant).			
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement busiest day (Moderate adverse, not significant).			
	Construction noise during the night (2300-0700) maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).			
	Construction vibration during phases, 1, 2, 5 and preparation of LEEIE (Negligible, not significant).			
	Construction road traffic on surrounding network during 2023 and 2028 (Negligible or minor, not significant).			
	Operation			
	Noise during the normal operation of the power station and operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Negligible, not significant).	There is low potential for combined effects on receptors at 158 King George's Avenue and so no additional significant adverse inter-relationship effect is likely during operation.
<u>Heath View.</u>	Construction			
<u>Figure 1.7 – main development site 16.</u>	Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling (Minor adverse, not significant).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction (Slight, adverse, not significant).	There is low potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at Heath View during the construction phase and so additional significant adverse inter-relationship effect is unlikely.
<u>Noise and Vibration – Receptor 10.</u>	Construction noise during the day (0700-2300) as dictated by LEEIE, during preparation of LEEIE (minor adverse, not significant).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).		
<u>Air Quality – Receptor LE55.</u>	Construction noise during the day (0700-2300) as dictated by LEEIE during the early and later years Operations (minor adverse, not significant).			
<u>Landscape and Visual – Receptor group 17.</u>	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement average day (Negligible, not significant).			
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement busiest day (Moderate adverse, not significant).			

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (Negligible, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).</p> <p>Construction noise during the night (2300-0700) maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).</p> <p>Construction vibration during all Phases 1, 2 and 5 and preparation of LEEIE (Negligible, not significant).</p> <p>Construction road traffic on surrounding network during 2023 and 2028 (Negligible or minor, not significant).</p>			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Slight, adverse, not significant).	There is low potential for combined effects from noise and views of the operational site. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at Heath View during the operational phase and so additional significant adverse inter-relationship effect is unlikely.
Keepers Cottage.	Construction			
<p>Figure 1.7 – main development site 17.</p> <p>Noise and Vibration – Receptor 11.</p> <p>Air Quality – Receptor LE52.</p> <p>Landscape and Visual – Receptor group 15.</p>	<p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A (Moderate adverse, significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4, and Phase 5 (average day) (Minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (Moderate adverse, significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (minor adverse, not significant).</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	Views of construction (Major to major-moderate, adverse, significant).	There is high potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Keepers Cottage during the construction phase and an additional significant adverse inter-relationship effect is likely.

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (negligible, not significant).</p> <p>Construction vibration during Phase 1 and 2 (minor adverse, not significant).</p> <p>Construction vibration during Phase 5 (Negligible, not significant).</p> <p>Construction road traffic on surrounding network during 2023 and 2028 (negligible or minor, not significant).</p>			
	Operation			
	Noise during the normal operation of the power station and power station operation plus back generator testing (low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Major to major-moderate, adverse, significant).	There is high potential for combined effects from noise and views of the operational site. Combined, these effects are likely to lead to an increased sense of disturbance for receptors at Keepers Cottage during the operational phase and so additional significant adverse inter-relationship effect is likely.
King George's Avenue.	Construction			
Figure 1.7 – main development site 17.	Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling (Minor adverse, not significant).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction (Slight, adverse, not significant).	There is low potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at King George's Avenue during the construction phase and an additional significant adverse inter-relationship effect is unlikely.
Noise and Vibration – Receptor 12.	Construction noise during the day (0700-2300) as dictated by LEEIE during preparation of LEEIE (Minor adverse, not significant).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).		
Air Quality – Receptor LE36.	Construction noise during the day (0700-2300) as dictated by LEEIE during the early years operations (Negligible, not significant).			
Landscape and Visual – Receptor group 17.	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement average day (Negligible, not significant).			
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement busiest day (Moderate adverse, not significant).			
	Construction noise during the night (2300-0700) average noise levels during period when material			

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>unloading from green rail route and hauling to stockpiles (Negligible, not significant).</p> <p>Construction vibration during Phase 1 and 2 and during preparation of the LEEIE (Minor adverse, not significant).</p> <p>Construction vibration during Phase 5 (Negligible, not significant)</p> <p>Construction road traffic on surrounding network in 2023 and 2028 (Negligible or minor, not significant).</p>			
	Operation			
	Noise during the normal operation of the power station and operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Slight, adverse, not significant).	There is low potential for combined effects from noise and views of the operational site. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at King George's Avenue during the operational phase and so additional significant adverse inter-relationship effect is unlikely.
Pro Corda	Construction			
<p>Figure 1.7 – main development site 18.</p> <p>Noise and Vibration – Receptor 13.</p> <p>Air Quality – Receptor LE16.</p> <p>Landscape and Visual – Receptor group 10.</p>	<p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A, Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) (Minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).</p> <p>Construction vibration during Phases 1 and 2, preparation of the LEEIE and Phase 5 (Negligible, not significant).</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	<p>Views of construction. Effects for visual receptor group 10 are assessed to be major to major-moderate, adverse, significant. However, views from within the Pro Corda site would be less extensive than for the receptor group as a whole due to screening provided by the abbey buildings and tree cover adjacent to the B1122 and Leiston Old Abbey Residential Home.</p>	<p>There is low potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors Pro Corda during the construction phase and an additional significant adverse inter-relationship effect is unlikely.</p>

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	Construction road traffic on surrounding network in 2023 and 2028 (Negligible or minor, not significant). Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation. Effects for visual receptor group 10 are assessed to be major to major-moderate, adverse, significant. However, views from within the Pro Corda site would be less extensive than for the receptor group as a whole due to screening provided by the abbey buildings and tree cover adjacent to the B1122 and Leiston Old Abbey Residential Home.	There is low potential for combined effects from noise and views of the operational site. Combined, these effects are unlikely to lead to a slightly increased sense of disturbance for receptors at Pro Corda during the operational phase and an additional significant adverse inter-relationship effect is unlikely.
<u>Lovers Lane/Sandy Lane Junction.</u> <u>Figure 1.7 – main development site 19.</u> <u>Noise and Vibration – Receptor 14.</u> <u>Air Quality – Receptor LE33.</u> <u>Landscape and Visual – Receptor group 15.</u>	Construction Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A (Moderate adverse, significant). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2 and Phase 5 (average day) (Minor adverse, not significant). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 3 and 4 (Negligible, not significant). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (Minor adverse, not significant). Construction noise during the night (2300-0700) during the period when the green rail route is operational at night (Negligible, not significant). Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling(Negligible, not significant). Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) (Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant). Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).	Views of construction (Major to major-moderate, adverse, significant).	There is high potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Lovers Lane/Sandy Lane Junction during the construction phase and an additional significant adverse inter-relationship effect is likely.

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 (Negligible, not significant).</p> <p>Road traffic on surrounding network during 2023 (receptors within the 55db contours) (Moderate adverse, significant).</p> <p>Construction road traffic on surrounding network during 2028 (Negligible or minor, not significant).</p> <p>Operation</p>			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Major to moderate, adverse, significant).	There is high potential for combined effects from noise and views of the operational site. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Lovers Lane/Sandy Lane Junction during the operational phase and an additional significant adverse inter-relationship effect is likely.
<p>1 Common Farm Cottage, Lovers Lane/Sandy Lane Junction.</p> <p>Figure 1.7 – main development site 20.</p> <p>Noise and Vibration – Receptor 14.</p> <p>Air Quality – Receptor LE32.</p> <p>Landscape and Visual – Receptor group 15.</p>	<p>Construction</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A (Moderate adverse, significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2 and Phase 5 (average day) (Minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 3 and 4 (Negligible, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (Negligible, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).</p> <p>Construction noise during the night (2300-0700) Maximum noise levels during period when material unloading from green rail route and hauling to</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	Views of construction (Major to major-moderate, adverse, significant).	There is high potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at 1 Common Farm Cottages, Lovers Lane/Sandy Lane Junction during the construction phase and an additional significant adverse inter-relationship effect is likely.

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>stockpiles and, continuous excavation and tunnelling (Negligible, not significant).</p> <p>Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 (Negligible, not significant).</p> <p>Road traffic on surrounding network during 2023 (receptors within the 55db contours) (Moderate adverse, significant).</p> <p>Construction road traffic on surrounding network during 2028 (Negligible or minor, not significant).</p>			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Major-moderate, adverse, significant).	There is high potential for combined effects from noise and views of the operational site. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at 1 Common Farm Cottage, Lovers Lane/Sandy Lane Junction during the operational phase and an additional significant adverse inter-relationship effect is likely.
2 Common Farm Cottage, Lovers Lane/Sandy Lane Junction.	Construction			
Figure 1.7 – main development site 20. Noise and Vibration – Receptor 14. Air Quality – Receptor LE32. Landscape and Visual – Receptor group 15.	<p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A (Moderate adverse, significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2 and Phase 5 (average day) (Minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 3 and 4 (Negligible, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (Negligible, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	Views of construction (Major to major-moderate, adverse, significant).	There is high potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at 2 Common Farm Cottages, Lovers Lane/Sandy Lane Junction during the construction phase and an additional significant adverse inter-relationship effect is likely.

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).</p> <p>Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 (Negligible, not significant).</p> <p>Road traffic on surrounding network during 2023 (receptors within the 55db contours) (Moderate adverse, significant).</p> <p>Construction road traffic on surrounding network during 2028 (Negligible or minor, not significant).</p>			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (negligible, not significant).	Views of operation (Major-moderate, adverse, significant).	There is high potential for combined effects from noise and views of the operational site. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at 2 Common Farm Cottage, Lovers Lane/Sandy Lane Junction during the operational phase and an additional significant adverse inter-relationship effect is likely.
Old Abbey Farm/Care Home.	Construction			
Figure 1.7 – main development site 22.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A (Moderate adverse, significant).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction (Major to moderate, adverse, significant).	There is high potential for combined effects from noise and vibration and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Old Abbey Farm/Care Home during the construction phase and an additional significant adverse inter-relationship effect is likely.
Noise and Vibration – Receptor 15.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4, and Phase 5 (average day) (Minor adverse, not significant).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).		
Air Quality – Receptor LE26.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (minor adverse, not significant).			
Landscape and Visual – Receptor group 14.	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (Moderate adverse, significant).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Moderate adverse, significant).			

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) (Negligible, not significant).</p> <p>Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 (Negligible, not significant).</p> <p>Construction road traffic on surrounding network during 2023 and 2028 (Negligible or minor adverse, not significant).</p>			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Moderate, adverse, not significant).	There is low potential for combined effects from noise and views of the operational site. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at Old Abbey Farm/Care Home during the operational phase and an additional significant adverse inter-relationship effect is unlikely.
Plantation Cottages.	Construction			
<p>Figure 1.7 – main development site 23.</p> <p>Noise and Vibration – Receptor 16.</p> <p>Air Quality – Receptor LE25.</p> <p>Landscape and Visual – Receptor group 11.</p>	<p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A, Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) (Minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 busiest day (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Minor adverse, not significant).</p> <p>Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).</p> <p>Construction vibration during Phase 1 and 2 (Minor adverse, not significant).</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	Views of construction (Major to major-moderate, adverse, significant).	There is high potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Plantation Cottages during the construction phase and an additional significant adverse inter-relationship effect is likely.

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>Construction vibration during Phase 5 (Negligible, not significant)</p> <p>Construction road traffic on surrounding network during 2023 and 2028 (Negligible or minor, not significant).</p> <p>Operation</p>			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Major-moderate to moderate, adverse, significant).	There is high potential for combined effects from noise and views of the operational site. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Plantation Cottage during the operational phase and an additional significant adverse inter-relationship effect is likely.
<u>Potters Farm.</u>	Construction			
<p><u>Figure 1.7</u> – main development site 24.</p> <p><u>Noise and Vibration</u> – Receptor 17.</p> <p><u>Air Quality</u> – Receptor LE27.</p> <p><u>Landscape and Visual</u> – Receptor group 10.</p>	<p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During all construction Phase (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (Minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Minor adverse, not significant).</p> <p>Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) (Negligible, not significant).</p> <p>Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 (Negligible, not significant).</p> <p>Construction road traffic on surrounding network during 2023 and 2028 (negligible or minor, not significant).</p> <p>Operation</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	Views of construction (Major to major-moderate, adverse, significant).	There is high potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Potters Farm during the construction phase and an additional significant adverse inter-relationship effect is likely.
	Noise during the normal operation of the power station and during power station operation plus back generator testing (low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Major-moderate to moderate, adverse, significant).	There is high potential for combined effects from noise and views of the operational site. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Potters Farm during the operational phase and an additional significant adverse inter-relationship effect is likely.

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<u>Potters Street.</u> <u>Figure 1.7</u> – main development site 25. <u>Noise and Vibration</u> – Receptor 18. <u>Air Quality</u> – Receptor LE27. <u>Landscape and Visual</u> – Receptor group 10.	Construction Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During all construction Phase (Minor adverse, not significant). Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (Minor adverse, not significant). Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Minor adverse, not significant). Construction noise during the night (2300-0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (negligible, not significant). Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 (negligible, not significant). Construction road traffic on surrounding network during 2023 and 2028 (negligible or minor, not significant).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant). Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).	Views of construction (Major to major-moderate, adverse, significant).	There is high potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Potters Street during the construction phase and an additional significant adverse inter-relationship effect is likely.
	Operation Noise during the normal operation of the power station and during power station operation plus back generator testing (low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Major-moderate to moderate, adverse, significant).	There is high potential for combined effects from noise and views of the operational site. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Potters Street during the operational phase and an additional significant adverse inter-relationship effect is likely.
<u>Rosery Cottages.</u> <u>Figure 1.7</u> – main development site 26. <u>Noise and Vibration</u> – Receptor 19. <u>Air Quality</u> – Receptor LE13. <u>Landscape and Visual</u> – Receptor group 15.	Construction Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A, Phase 1B/2, Phase 3 and 4 and Phase 5 (busiest day) (Minor adverse, not significant). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (average day) (negligible, not significant). Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (negligible, not significant).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant). Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).	Views of construction (Major to major-moderate, adverse, significant).	There is high potential for combined effects from noise and vibration and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors Rosery Cottages during the construction phase and an additional significant adverse inter-relationship effect is likely.

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (negligible, not significant).</p> <p>Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (negligible, not significant).</p> <p>Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 (negligible, not significant).</p> <p>Road traffic on surrounding network during 2023 (receptors within the 55db contours) (Moderate adverse, significant).</p> <p>Construction road traffic on surrounding network during 2028 (Negligible or minor, not significant).</p>			
	<p>Operation</p> <p>Noise during the normal operation of the power station and during power station operation plus back generator testing (low or negligible, not significant).</p>	<p>Exhaust emissions from combustion emissions during operation (Negligible, not significant).</p>	<p>Views of operation (Major to moderate, adverse, significant).</p>	<p>There is high potential for combined effects from noise and views of the operational site. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Rosery Cottage during the operational phase and an additional significant adverse inter-relationship effect is likely.</p>
<p><u>Round House.</u></p> <p>Figure 1.7 – main development site 27.</p> <p><u>Noise and Vibration</u> – Receptor 20.</p> <p><u>Air Quality</u> – Receptor LE25.</p> <p><u>Landscape and Visual</u> – Receptor group 14.</p>	<p>Construction</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A (moderate adverse, significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) (Minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (Moderate adverse, significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (Moderate adverse, significant).</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	<p>Views of construction (Major-moderate, adverse, significant).</p>	<p>There is high potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Round House during the construction phase and an additional significant adverse inter-relationship effect is likely.</p>

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Moderate adverse, significant).</p> <p>Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Moderate adverse, significant).</p> <p>Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 (negligible, not significant).</p> <p>Road traffic on surrounding network during 2023 (receptors within the 55db contours) (Moderate adverse, significant).</p> <p>Construction road traffic on surrounding network during 2028 (Negligible or minor, not significant).</p>			
	<p>Operation</p> <p>Noise during the normal operation of the power station and during power station operation plus back generator testing (low or negligible, not significant).</p>	<p>Exhaust emissions from combustion emissions during operation (Negligible, not significant).</p>	<p>Views of operation (Moderate, adverse, not significant).</p>	<p>There is low potential for combined effects from noise and views of the operational site. Combined, these effects are unlikely to lead to a slightly increased sense of disturbance for receptors at Round House during the operational phase and so no additional significant adverse inter-relationship effect is likely.</p>

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p>Sizewell Sports & Social Club.</p> <p>Figure 1.7 – main development site 28.</p> <p>Noise and Vibration – Receptor 21.</p> <p>Air Quality – Receptor LE55.</p> <p>Landscape and Visual – Receptor group 19.</p>	<p>Construction</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during preparation of LEEIE (Minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during the Early Years Operations (Minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement (average day) (negligible, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement (busiest day) (moderate adverse, significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (negligible, not significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling. (negligible, not significant).</p> <p>Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (negligible, not significant).</p> <p>Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 (negligible, not significant).</p> <p>Road traffic on surrounding network during 2023 (receptors within the 55db contours) (Moderate adverse, significant).</p> <p>Construction road traffic on surrounding network during 2028 (Negligible or minor, not significant).</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	<p>Views of construction (Moderate, adverse, not significant).</p>	<p>There is high potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are likely to lead to an increased sense of disturbance for receptors at Sizewell Sports and Social Club during the construction phase and so an additional significant adverse inter-relationship effect is likely.</p>
	<p>Operation</p> <p>Noise during the normal operation of the power station and during power station operation plus back generator testing (low or negligible, not significant).</p>	<p>Exhaust emissions from combustion emissions during operation (Negligible, not significant).</p>	<p>Views of operation (Moderate -slight, adverse, not significant).</p>	<p>There is low potential for combined effects from noise and views of the operational site. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at Sizewell Sports and Social Club during the operational phase and</p>

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
				so no additional significant adverse inter-relationship effect is likely.
<p>Sizewell Village (Vulcan Arms).</p> <p>Figure 1.7 – main development site 29.</p> <p>Noise and Vibration – Receptor 22.</p> <p>Air Quality – Receptor LE13.</p> <p>Landscape and Visual – Receptor group 19.</p>	<p>Construction</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During all construction Phases (negligible, not significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (negligible, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (negligible, not significant).</p> <p>Construction noise during the night (2300-0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (negligible, not significant).</p> <p>Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 (negligible, not significant).</p> <p>Construction road traffic on surrounding network (negligible or minor, not significant).</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	<p>Views of construction (Moderate, adverse, not significant).</p>	<p>There is low potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at Sizewell Village (Vulcan Arms) during the construction phase and so no additional significant adverse inter-relationship effect is likely.</p>
	<p>Operation</p> <p>Noise during the normal operation of the power station and operation plus back generator testing (low or negligible, not significant).</p>	<p>Exhaust emissions from combustion emissions during operation (Negligible, not significant).</p>	<p>Views of operation (Moderate-slight, adverse, not significant).</p>	<p>There is low potential for combined effects from noise and views of the operational site. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at Sizewell Village (Vulcan Arms) during the operational phase and so no additional significant adverse inter-relationship effect is likely.</p>
<p>The Studio.</p> <p>Figure 1.7 – main development site 30.</p> <p>Noise and Vibration – Receptor 23.</p> <p>Air Quality – Receptor LE32.</p> <p>Landscape and Visual – Receptor group 15.</p>	<p>Construction</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A (Moderate adverse, significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) (Minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by main development site (including</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	<p>Views of construction (Major to major-moderate, adverse, not significant).</p>	<p>There is high potential for combined effects from noise and vibration and views of construction. Combined, these effects are likely to lead to an increased sense of disturbance for receptors at The Studio during the construction phase and so an additional significant adverse inter-relationship effect is likely.</p>

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>activities on LEEIE) During Phase 5 busiest day (moderate adverse, significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (minor adverse, not significant).</p> <p>Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 (negligible, not significant).</p> <p>Construction road traffic on surrounding network (negligible or minor, not significant).</p>			
	Operation			
	Noise during the normal operation of the power station and operation plus back generator testing (low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Major-moderate, adverse, significant).	There is high potential for combined effects from noise and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at The Studio during the operational phase and an additional significant adverse inter-relationship effect is likely.
Valley Road North.	Construction			
<p>Figure 1.7 – main development site 31.</p> <p>Noise and Vibration – Receptor 24.</p> <p>Air Quality – Receptor LE35.</p> <p>Landscape and Visual – Receptor group 17.</p>	<p>Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling (minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during preparation of LEEIE (minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during the Early Years Operations (negligible, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement (average day) (negligible, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement (busiest day) (minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (minor adverse, not significant).</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	Views of construction (Slight, adverse, not significant).	There is low potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at Valley Road North during the construction phase and so no additional significant adverse inter-relationship effect is likely.

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (minor adverse, not significant).</p> <p>Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (negligible, not significant).</p>			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Slight, adverse, not significant).	There is low potential for combined effects from noise and views of the operational site. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at Valley Road North during the operational phase and so no additional significant adverse inter-relationship effect is likely.
Valley Road South.	Construction			
<p><u>Figure 1.7</u> – main development site 32.</p> <p><u>Noise and Vibration</u> – Receptor 25.</p> <p><u>Air Quality</u> – Receptor LE34.</p> <p><u>Landscape and Visual</u> – Receptor group 17.</p>	<p>Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling (minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during preparation of LEEIE (minor adverse, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during the Early Years Operations (negligible, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement (average day) (negligible, not significant).</p> <p>Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement (busiest day) (minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (minor adverse, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (minor adverse, not significant).</p>	<p>Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).</p>	Views of construction (Slight, adverse, not significant).	There is low potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at Valley Road South during the construction phase and so no additional significant adverse inter-relationship effect is likely.

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (negligible, not significant).</p> <p>Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 (negligible, not significant).</p> <p>Construction road traffic on surrounding network during 2023 and 2028 (negligible or minor, not significant).</p>			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Slight, adverse, not significant).	There is low potential for combined effects from noise and views of the operational site. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at Valley Road South during the operational phase and so no additional significant adverse inter-relationship effect is likely.
B1122 Station Road	Construction			
Figure 1.7 – main development site 36. Noise and Vibration – No corresponding residential receptor.	No noise effects identified at receptor location.	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction (Slight, adverse, not significant).	There is low potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at B1122 Station Road during the construction phase and so no additional significant adverse inter-relationship effect is likely.
Air Quality – Receptor LE1.	Operation			
Landscape and Visual – Receptor group 17.	No noise effects identified at receptor location.	Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).	Views of operation (Slight, adverse, not significant).	There is low potential for combined effects on receptors at B1122 Station Road. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation
Abbey View Lodges, Orchard House 105 Abbey Road Leiston Suffolk IP16 4TA.	Construction			
Figure 1.7 – main development site 35 and main development site 42. Noise and Vibration – Receptor 3.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A (Moderate adverse, significant).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction (Moderate, adverse, not significant).	There is high potential for combined effects from noise and vibration, air quality and views of construction. Combined, these effects are likely to lead to an increased sense of disturbance for receptors at Abbey View Lodges, Orchard House during the construction phase and so an additional significant adverse inter-relationship effect is likely.
Air Quality – Receptor LE2.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4, and Phase 5 (average day) (Negligible, not significant).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).		
Landscape and Visual – Receptor group 16.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (Moderate adverse, significant).			
	Construction noise during the night (2300-0700) Average noise levels during period when material			

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>unloading from green rail route and hauling to stockpiles (Negligible, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling. (Negligible, not significant).</p> <p>Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) (Negligible, not significant).</p> <p>Construction Vibration during compaction work in Phases 1 and 2 and during preparation of LEEIE and during Phase 5 (Negligible, not significant).</p> <p>Road traffic on surrounding network during 2023 (receptors within the 55db contours) (Moderate adverse, significant).</p> <p>Construction road traffic on surrounding network during 2028 (Negligible or minor, not significant).</p>			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation (Negligible, not significant).	Views of operation (Negligible, not significant).	There is low potential for combined effects on receptors at Abbey View Lodges Orchard House 105 Abbey Road. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.
Leiston Primary School	Construction			
Noise and Vibration – Receptor 10	Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling (Minor adverse, not significant).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	No visual effects considered due to the location within the existing built up area of Leiston	There is low potential for combined effects from noise and vibration, and air quality. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at Leiston Primary School during the construction phase and so no additional significant adverse inter-relationship effect is likely.
Air Quality – Receptor LE54	Construction noise during the day (0700-2300) as dictated by LEEIE, during preparation of LEEIE (minor adverse, not significant).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).		
Landscape and Visual – No visual effects considered due to the location within the existing built up area of Leiston	Construction noise during the day (0700-2300) as dictated by LEEIE during the early and later years Operations (minor adverse, not significant).			
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement average day (Negligible, not significant).			
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and			

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>reinstatement busiest day (Moderate adverse, significant).</p> <p>Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (Negligible, not significant).</p> <p>Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).</p> <p>Construction noise during the night (2300-0700) maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).</p> <p>Construction vibration during all Phases 1, 2 and 5 and preparation of LEEIE (Negligible, not significant).</p> <p>Construction road traffic on surrounding network during 2023 and 2028 (Negligible or minor, not significant).</p>			
	<p>Operation</p> <p>Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).</p>	<p>Exhaust emissions from combustion emissions during operation (Negligible, not significant).</p>	<p>No visual effects considered due to the location within the existing built up area of Leiston</p>	<p>There is low potential for combined effects from noise and vibration, and air quality. Combined, these effects are unlikely to lead to an increased sense of disturbance for receptors at Leiston Primary School during operation and so no additional significant adverse inter-relationship effect is likely</p>

Table 2B.2: Potential for inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the northern park and ride

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p><u>Willow Marsh Cottage.</u></p> <p>Figure 1.2 - D10</p> <p>Noise and Vibration - Receptor F – North-west corner of the site (Willow Marsh Lane).</p> <p>Air Quality – Receptor YX14.</p> <p>Landscape and Visual – Viewpoint R3 - Willow Marsh Lane, near level crossing - Motorists and cyclist using Willow Marsh Lane, residents along Willow Marsh Lane, train passengers (Receptor Group 2).</p>	Construction			
	Construction noise (during Monday to Friday 07:00 to 19:00 and Saturday 07:00 to 13:00 working hours) (Minor or Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Views of construction activity (Slight-minimal, adverse, not significant).	There is a low potential for combined effects arising from noise and vibration from construction and views of construction activity, combined these effects are unlikely to lead to an increased sense of disturbance for the receptors within Group D10 during the construction phase and so no additional significant adverse inter-relationship effect is likely.
	Construction vibration (Negligible, not significant).	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).		
	Operation			
Noise and vibration from operation of the proposed development (Minor or Negligible, not significant).	Exhaust emissions from additional road vehicle movements during operation (Minor adverse to negligible, not significant).	Views of the taller elements of the proposed development, including lighting columns during operation (Slight, minimal adverse, not significant).	There is a low potential for combined effects arising from noise and vibration, air quality and disruption to views and from lighting, combined these effects are unlikely to lead to an increased sense of disturbance for the receptors within Group D10 during operation and so no additional significant adverse inter-relationship effect is likely.	
Removal and reinstatement.				
Noise and vibration levels during removal and reinstatement (Minor or Negligible, not significant).	Effects on health from particulate matter generated from removal and reinstatement activities (Negligible, not significant).	Views of construction activity during removal and reinstatement (Slight-minimal, adverse, not significant).	There is a low potential for combined effects arising from noise and vibration from construction and views of construction activity, combined these effects are unlikely to lead to an increased sense of disturbance for the receptors within Group D10 during removal and reinstatement and so no additional significant adverse inter-relationship effect is likely.	
Vibration levels during removal and reinstatement (Negligible, not significant).	Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).			
<p><u>Residential properties located along London Road to the north of the site.</u></p> <p>Figure 1.2 - D9</p> <p>Noise and Vibration - Receptor G - Properties north of the site, west of the A12.</p> <p>Air Quality – Receptor YX15.</p> <p>Landscape and visual - Viewpoint R2 - London Road, Near High Street - Users of the public footpath to the north of the site, south of the A144 (receptor group 2).</p>	Construction			
	Construction noise (during Monday to Friday 07:00 to 19:00 and Saturday 07:00 to 13:00 working hours) (Minor or Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Views of construction activity, progressing towards views of the taller elements of the proposed development (Slight-minimal adverse, not significant).	There is a low potential for combined effects arising from noise and vibration from construction and views of construction activity, combined these effects are unlikely to lead to an increased sense of disturbance for the receptors within Group D9 during the construction phase and so no additional significant adverse inter-relationship effect is likely.
	Construction vibration (Negligible, not significant).	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).		
Operation				
Noise from Operation of Proposed Development (Minor or Negligible, not significant).	Exhaust emissions from additional road vehicle movements during operation (Minor adverse to negligible, not significant).	Views of perimeter fencing, with light columns and roofs of taller vehicles seen above planting and bunds during operation (Slight-minimal, adverse, not significant).	There is a low potential for combined effects arising from noise and vibration, air quality and disruption to views and from lighting. Combined these effects are unlikely to lead to an increased sense of disturbance for the receptors within Group D9 during operation and so no additional significant adverse inter-relationship effect is likely.	
		Visibility of proposed operational lighting at night (Moderate, adverse, not significant).		

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	Removal and Reinstatement. Noise and vibration levels during removal and reinstatement (Minor or Negligible, not significant). Vibration levels during removal and reinstatement (Negligible, not significant).	Effects on health from particulate matter generated from removal and reinstatement activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).	Views of construction activity, associated with removal and reinstatement phase, of the taller elements of the proposed development (Slight-minimal, adverse, not significant).	There is a low potential for combined effects arising from noise and vibration from construction and views of construction activity, combined these effects are unlikely to lead to an increased sense of disturbance for the receptors within Group D9 during the removal and reinstatement phase and so no additional significant adverse inter-relationship effect is likely.
Residential properties to the south-west of the East Suffolk Line to the south of the site. Figure 1.2 - D1, D2, D11 Noise and Vibration – Receptor A - Properties in the area at southern end of site, west of the rail line. B - Properties at the southern end of the site, east of the A12. Predominantly medium sensitivity. Air Quality - YX1 and YX16. Landscape and Visual - No corresponding receptor group. Outside zone of theoretical visibility.	Construction Construction noise (during Monday to Friday 07:00 to 19:00 and Saturday 07:00 to 13:00 working hours) (Minor or Negligible, not significant). Construction vibration (Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	No effects identified at receptor location.	There is low potential for combined effects on receptor groups D1, D2 and D11. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.
	Operation Noise and vibration from operation of the proposed development (Minor or Negligible, not significant).	Exhaust emissions from additional road vehicle movements during operation (Minor adverse to negligible, not significant).	No effects identified at receptor location.	There is a low potential for combined effects arising from noise and vibration and air quality during operation. Combined these effects are unlikely likely to lead to an increased sense of disturbance for the receptors within Groups D1, D2 and D11 during operation and so no additional significant adverse inter-relationship effect is likely.
	Removal and reinstatement. Noise and vibration levels during removal and reinstatement (Minor or Negligible, not significant). Vibration levels during removal and reinstatement (Negligible, not significant).	Effects on health from particulate matter generated from removal and reinstatement activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).	No effects identified at receptor location.	There is low potential for combined effects on receptor groups D3, D4 and D5. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.
Residential properties on the western side of Main road adjacent to the eastern boundary of the site. Figure 1.2 - D3, D4, D5 Noise and Vibration - Receptor C - East of the A12, centre of the site. Receptor D - Properties to the west of the A12, to the east of the site.	Construction Construction noise (during Monday to Friday 07:00 to 19:00 and Saturday 07:00 to 13:00 working hours) (Minor or Negligible, not significant). Construction vibration (Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	Views of construction activity, progressing towards views of perimeter fencing, with light columns and roofs of taller vehicles seen above planting and landscaped bund (Major-moderate adverse, significant).	There is a high potential for combined effects arising from noise and vibration from construction and views of construction activity, combined these effects are likely to lead to an increased sense of disturbance for the receptors within Groups D3, D4 and D5 during the construction phase and an additional significant adverse inter-relationship effect is likely.
	Operation Noise and vibration from operation of the proposed development (Minor or Negligible, not significant).	Exhaust emissions from additional road vehicle movements during operation (Minor adverse to negligible, not significant).	Views of perimeter fencing, with light columns and roofs of taller vehicles seen above planting and bunds during operation (Moderate to moderate-slight, adverse, not significant).	There is a high potential for combined effects arising from noise and vibration, air quality and disruption to views and from lighting. Combined these effects are likely to lead to an increased sense of disturbance for the receptors within

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p><u>Air Quality</u> - Receptors YX13, YX11, YX11c, YX12 and YX12c.</p> <p><u>Landscape and visual</u> - Viewpoint 1 - Users of the cycle way along Willow Marsh Lane and Main Road, minor roads and local residents to north and east of the site and immediately adjacent to it.</p>			Visibility of proposed operational lighting at night (Major-moderate, adverse, significant) .	Groups D3, D4 and D5 during operation and an additional significant adverse inter-relationship effect is likely.
	<p>Removal and reinstatement.</p> <p>Noise and vibration levels during removal and reinstatement (Minor or Negligible, not significant).</p> <p>Vibration levels during removal and reinstatement (Negligible, not significant).</p>	<p>Effects on health from particulate matter generated from removal and reinstatement activities (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).</p>	Views of removal and reinstatement activity, progressing towards views of perimeter fencing, with light columns and roofs of taller vehicles seen above planting and landscaped bund (Major-moderate, adverse, significant) .	There is a high potential for combined effects arising from noise and vibration from construction and views of construction activity, combined these effects are likely to lead to an increased sense of disturbance for the receptors within Groups D3, D4 and D5 during the removal and reinstatement phase and an additional significant adverse inter-relationship effect is likely.
<p><u>Residential properties on the western side of Main road adjacent to the eastern boundary of the site.</u></p> <p>Figure 1.2 - D6, D7</p> <p><u>Noise and vibration</u> - Receptor E - Properties to the west of the A12, to the north end of the east of the site.</p> <p><u>Air Quality</u> - Receptors YX10 and YX10c.</p> <p><u>Landscape and visual</u> - Viewpoint 1 - Users of the cycle way along Willow Marsh Lane and Main Road, minor roads and local residents to north and east of the site and immediately adjacent to it.</p>	Construction			
	Construction noise (during Monday to Friday 07:00 to 19:00 and Saturday 07:00 to 13:00 working hours) (Minor or Negligible, not significant) .	Effects on health from particulate matter generated from construction activities (Negligible, not significant) .	Views of construction activity, progressing towards views of perimeter fencing, with light columns and roofs of taller vehicles seen above planting and landscaped bund (Major-moderate, adverse, significant) .	There is a high potential for combined effects arising from noise and vibration from construction and views of construction activity, combined these effects are likely to lead to an increased sense of disturbance for the receptors within Groups D6 and D7 during the construction phase and an additional significant adverse inter-relationship effect is likely.
	Construction vibration (Negligible, not significant)	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant) .		
	Operation			
	Noise and vibration from operation of the proposed development (Minor or Negligible, not significant) .	Exhaust emissions from additional road vehicle movements during operation (Minor adverse to negligible, not significant)	Views of perimeter fencing, with light columns and roofs of taller vehicles seen above planting and bunds during operation. (Moderate to moderate-slight adverse, not significant) .	There is a high potential for combined effects arising from noise and vibration, air quality and disruption to views and from lighting, combined these effects are likely to lead to an increased sense of disturbance for the receptors within Groups D16 and D7 during operation and an additional significant adverse inter-relationship effect is likely.
	Removal and reinstatement.		Visibility of proposed operational lighting at night. (Major-moderate, adverse, significant) .	
	Noise and vibration levels during removal and reinstatement (Minor or Negligible, not significant) .	Effects on health from particulate matter generated from removal and reinstatement activities (Negligible, not significant)	Views of removal and reinstatement activity, progressing towards views of perimeter fencing, with light columns and roofs of taller vehicles seen above planting and landscaped bund. (Major-moderate, adverse, significant) .	There is a high potential for combined effects arising from noise and vibration from construction and views of construction activity, combined these effects are likely to lead to an increased sense of disturbance for the receptors within Groups D6 and D7 during the removal and reinstatement phase and so an additional significant adverse effect is likely.
	Vibration levels during removal and reinstatement (Negligible, not significant) .	Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant) .		
<p><u>Residential properties located along The Street to the east of the site.</u></p> <p>Figure 1.2 - D8</p> <p><u>Air Quality</u> - Receptor YX17.</p>	Construction			
	No effects identified at corresponding receptors.	Effects on health from particulate matter generated from construction activities (Negligible, not significant) .	Views of construction activity (Negligible, not significant) .	There is low potential for combined effects on receptor group D8. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the construction phase.
		Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant) .		

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
Landscape and Visual - Visual receptor group 3.	Operation			
	No effects identified at corresponding receptors.	Exhaust emissions from additional road vehicle movements during operation (Minor adverse to negligible, not significant).	Views of operation (Minimal, neutral, not significant).	There is low potential for combined effects on receptor group D1. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the operational phase.
	Removal and Reinstatement.			
	No effects identified at corresponding receptors.	Effects on health from particulate matter generated from removal and reinstatement activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).	Views of removal and reinstatement activity (Negligible, not significant).	There is low potential for combined effects on receptor group D8. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the removal and reinstatement phase.

Table 2B.3: Inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the southern park and ride

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
Rookery Farm, Hacheston. Figure 1.2 – WM1. Noise and Vibration – Receptor D. Air Quality – Receptors WM13 and WM14. Landscape and Visual – No corresponding residential receptor. Outside of zone of visual influence.	Construction			
	Construction noise during all phases and periods of work (Minor or Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	No effects identified at receptor location.	There is low potential for combined effects on receptors at Rookery Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the construction phase.
	Construction vibration (Negligible, not significant).	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).		
	Operation			
Noise and vibration from operation of the proposed development (Negligible, not significant).	Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	No effects identified at receptor location.	There is low potential for combined effects on receptors at Rookery Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the operation phase.	
Removal and Reinstatement.				
Noise levels during removal and reinstatement (Minor or Negligible, not significant).	Effects on health from particulate matter generated from removal and reinstatement activities (Negligible, not significant).	No effects identified at receptor location.	There is low potential for combined effects on receptors at Rookery Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the removal and reinstatement phase.	
Vibration levels during removal and reinstatement (Negligible, not significant).	Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).			

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p><u>Main Road.</u></p> <p>Figure 1.2 – WM2</p> <p><u>Noise and Vibration</u> – Receptor C.</p> <p><u>Air Quality</u> – Receptor WM2.</p> <p><u>Landscape and Visual</u> – Representative viewpoint R8. Receptor – users of footpath, residents.</p>	Construction			
	Construction noise during all phases and periods of work (Minor or Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Views of construction activity (Minimal, neutral, not significant).	There is low potential for combined effects on receptor group WM2. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the construction phase.
	Construction vibration (Negligible, not significant).	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).		
	Operation			
	Noise and vibration from operation of the proposed development (Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Views of operational park and ride (Minimal, neutral, not significant).	There is low potential for combined effects on receptor group WM2. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the construction phase.
	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).			
Removal and reinstatement.				
Noise levels during removal and reinstatement (Minor or Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Views of construction activity during removal and reinstatement (Minimal, neutral, not significant).	There is low potential for combined effects on receptor group WM2. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the removal and reinstatement phase.	
Vibration levels during removal and reinstatement (Negligible, not significant).	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).			
<p><u>Ash View, Lower Hacheston.</u></p> <p>Figure 1.2 – WM3</p> <p><u>Noise and Vibration</u> – Receptor B.</p> <p><u>Air Quality</u> – Receptor WM11</p> <p><u>Landscape and Visual</u> - No corresponding residential receptor. Outside zone of visual influence.</p>	Construction			
	Construction noise during all phases and periods of work (Minor or Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	No effects identified at receptors location.	There is low potential for combined effects on receptors at Ash View. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the construction phase.
	Construction vibration (Negligible, not significant).	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).		
	Operation			
	Noise and vibration from operation of the proposed development (Negligible not significant).	Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	No effects identified at receptors location.	There is low potential for combined effects on receptors at Ash View. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the operation phase.
Removal and reinstatement.				
Noise levels during removal and reinstatement (Minor or Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	No effects identified at receptors location.	There is low potential for combined effects on receptors at Ash View. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the removal and reinstatement phase.	
Vibration levels during removal and reinstatement (Negligible, not significant).	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).			

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p>Long Acre, Ash Rd, Lower Hacheston.</p> <p>Figure 1.2 – WM4</p> <p>Noise and Vibration – No corresponding residential receptor.</p> <p>Air Quality – Receptor WM6.</p> <p>Landscape and Visual - No corresponding residential receptor. Outside zone of visual influence.</p>	Construction			
	No effects identified at receptor location	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	No effects identified at receptors location.	There is no potential for combined effects on residents at Long Acre and so no additional significant adverse inter-relationship effect is likely during the construction phase.
	Operation			
	No effects identified at receptor location	Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	No effects identified at receptors location.	There is no potential for combined effects on residents at Long Acre and so no additional significant adverse inter-relationship effect is likely during the operation phase.
<p>Bottle and Glass Cottages, Hacheston.</p> <p>Figure 1.2 – WM5</p> <p>Noise and Vibration – Receptor A.</p> <p>Air Quality – Receptor WM12.</p> <p>Landscape and Visual – Representative viewpoint 5 – Footpath. E-178/003/0 & Station Road. Receptors - Motorists, users of nearby footpaths, residents along. Station Road.</p>	Construction			
	Construction noise during all phases and periods of work (Minor or Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Views of construction activity (Minimal, neutral, not significant).	There is a low potential for combined effects arising from noise and vibration and views of construction activity during construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the residents at Bottle and Glass Cottages during construction, and so no additional significant adverse inter-relationship effect is likely.
	Construction vibration (Negligible, not significant).	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).		
	Operation			
Noise and vibration from operation of the proposed development (Negligible, not significant).	Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	Views of perimeter fencing with lighting columns and roofs of taller vehicles during operation (Minimal, neutral, not significant).	There is a low potential for combined effects arising from noise and vibration and views of construction activity and lighting during operation. Combined, these effects are unlikely to lead to an increased sense of disturbance for the residents at Bottle and Glass Cottages during operation, and so no additional significant adverse inter-relationship effect is likely.	
Removal and Reinstatement.				
Noise levels during removal and reinstatement (Minor or Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Views of construction activity during removal and reinstatement (Minimal neutral, not significant).	There is a low potential for combined effects arising from noise and vibration and views of removal and reinstatement construction activity. Combined, these effects are unlikely to lead to an increased sense of disturbance for the residents at Bottle and Glass Cottages during removal and reinstatement, and so no additional significant adverse inter-relationship effect is likely.	
Vibration levels during removal and reinstatement (Negligible, not significant).	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).			

Table 2B.4: Inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the two village bypass

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p>Tinker Brook and Park Gate Farm.</p> <p>Figure 1.2 – TVB2 TVB1</p> <p>Noise and Vibration – Receptor 2.</p> <p>Air Quality – Receptor WM1</p> <p>Landscape and Visual – Representative viewpoint 6 - Users of Tinker Brook to the west of the site, within approximately 250m, and residents along it: (group 5).</p>	Construction			
	<p>Noise and vibration during set-up, site clearance and restoration (Negligible, significant).</p> <p>Noise and vibration during construction (Minor adverse, not significant).</p>	<p>Effects on health from particulate matter generated from construction activities (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).</p>	<p>Views of the construction activity (Slight, adverse, not significant).</p>	<p>There is low potential for combined effects on receptors at Tinker Brook and Park Gate Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.</p>
	Operation			
	<p>Daytime noise during construction of main development site (2028) (Moderate adverse, significant)</p> <p>Daytime noise during operation of main development site (2034) (Minor adverse, not significant)</p>	<p>Effects on health from particulate matter generated from operation (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).</p>	<p>Views of operation (Moderate, adverse, not significant).</p> <p>Views of proposed lighting at night during operation (Moderate, adverse, not significant).</p>	<p>There is high potential for combined effects on receptors at Tinker Brook and Park Gate Farm. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors and so an additional significant adverse inter-relationship effect is likely during operation.</p>
<p>The Red House, Main Road.</p> <p>Figure 1.2 – TVB3</p> <p>Noise and Vibration – Receptors 3, 4 and 5.</p> <p>Air Quality – Receptor SX7</p> <p>Landscape and Visual – Representative viewpoint 7 - Pedestrians using the footways along the A12 and local residents along the A12 at Stratford St. Andrew (group 4).</p>	Construction			
	<p>Noise and vibration during set-up, site clearance and restoration (Minor or Negligible, not significant)</p>	<p>Effects on health from particulate matter generated from construction activities (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).</p>	<p>Views of the construction of the proposed River Alde overbridge (Major-moderate, adverse, significant).</p>	<p>There is high potential for combined effects on receptors at The Red House. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors and so additional significant adverse inter-relationship effect is likely during construction.</p>
	Operation			
	<p>Receptor 3 and 4 – during peak construction (2028) and operation c of main development site (2034) (Major beneficial, significant).</p> <p>Receptor 5 – noise during peak construction (2028) and operation (2034) of main development site (Negligible, not significant)</p>	<p>Effects on health from particulate matter generated from operation (Negligible to minor, beneficial, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during operation (Moderate, beneficial, not significant).</p>	<p>Views of operation (Moderate, adverse, not significant).</p> <p>Views of proposed lighting at night during operation (Major-moderate, adverse, significant).</p>	<p>There is a high potential for combined effects arising from air quality and views of proposed lighting at night during operation on receptors at The Red House. Combined, these effects are likely to lead to a higher sense of disturbance during operation, these effects are likely to be significant.</p>
<p>Timbers, Main Road.</p> <p>Figure 1.2 – TVB4</p> <p>Noise and Vibration – Receptors 6, 7, 8 and 9.</p> <p>Air Quality – Receptor SX6</p>	Construction			
	<p>Noise and vibration during construction (Minor or Negligible, not significant)</p>	<p>Effects on health from particulate matter generated from construction activities (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).</p>	<p>Views of construction (Major-moderate adverse, significant).</p>	<p>There is high potential for combined effects on receptors at Timbers, Main Road, combined these effects are likely to lead to a higher sense of disturbance during construction, and therefore are likely to be significant.</p>
	Operation			

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<u>Landscape and Visual</u> - visual receptor group 4.	Noise during peak construction (2028) and operation (2034) of main development site (Moderate beneficial, significant)	Effects on health from particulate matter generated from operation (Negligible to minor beneficial, not significant). Exhaust emissions from additional road vehicle movements during operation (Moderate, beneficial, not significant).	Views of operation (Moderate adverse, not significant).	There is a low potential for combined effects arising from air quality and views of operation during operation on receptors at Timbers, Main Road. Combined, these effects are unlikely to lead to a lower sense of disturbance during operation due to the beneficial effects arising during operation, although these effects are unlikely to be significant.
The Street, Farnham.	Construction			
<u>Figure 1.2</u> – TVB5 <u>Noise and Vibration</u> – Receptors 20, 21, 22, 23, 24 and 25. <u>Air Quality</u> – Receptor SX15	Noise and vibration during set-up, site clearance and restoration (Minor or Negligible, not significant)	Effects on health from particulate matter generated from construction activities (Minor, beneficial, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	No effects identified at receptor location.	There is a low potential for combined effects arising from noise and vibration and air quality during construction on receptors at the Street. Combined, these effects are unlikely to lead to a lower sense of disturbance during operation due to the beneficial effects arising during construction, although these effects are unlikely to be significant.
<u>Landscape and Visual</u> - no corresponding residential receptor group Outside zone on visual influence.	Operation			
	Noise during peak construction (2028) (Beneficial, significant) Receptor 25 during construction of main development site (2028) (Major or Moderate adverse, significant) Noise during operation of main development site (2034) (Major beneficial, significant) Receptor 25 during operation of main development site (2034) (Minor adverse, not significant)	Effects on health from particulate matter generated from operation (Negligible, not significant). Exhaust emissions from additional road vehicle movements during operation (Moderate, beneficial, not significant).	No effects identified at receptor location.	There is a low potential for combined effects arising from noise and vibration and air quality during operation on receptors at the Street Combined, these effects are unlikely to lead to a lower sense of disturbance during operation due to the beneficial effects arising during operation, although these effects are unlikely to be significant.
Hall Cottages and Farnham Hall, Farnham.	Construction			
<u>Figure 1.2</u> – TVB6 and TVB7 <u>Noise and Vibration</u> – Receptors 13. <u>Air Quality</u> – Receptor SX9	Noise during construction (Minor adverse, not significant) Vibration during construction (Negligible, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	Views of construction of the proposed Foxburrow Wood overbridge (Major-moderate adverse, significant).	There is a high potential for combined effects arising from noise and vibration from construction and views of construction activity. Combined these effects are likely to lead to an increased sense of disturbance for the receptors at Hall Cottages and Farnham Hall during the construction phase and an additional significant adverse inter-relationship effect is likely.
<u>Landscape and Visual</u> – Representative viewpoint 4 – residents around the south-east of Farnham and Farnham Hall (group 2).	Operation			
	Daytime noise during operation (peak construction 2028 and operation 2034) of main development site (Major adverse, significant).	Effects on health from particulate matter generated from operation (Negligible, not significant). Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	Views of the proposed Foxburrow Wood overbridge (Moderate adverse, not significant). Views of proposed lighting at night during operation (Slight, adverse, not significant).	There is a high potential for combined effects arising from noise and vibration from operation and views of the bridge and road. Combined these effects are likely to lead to an increased sense of disturbance for the receptors at Hall Cottages and Farnham Hall during the operation phase and so an additional significant adverse inter-relationship effect is likely.
	Construction			

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<u>Pond Barn Cottages, Farnham.</u> Figure 1.2 – TVB8 <u>Noise and Vibration</u> – Receptor 12. <u>Air Quality</u> – Receptor SX8 <u>Landscape and Visual</u> – Representative viewpoint 5 – footpaths and local roads south of Farnham, as well as local residents along them (group 3).	Noise during construction (Minor adverse, not significant). Vibration during construction (Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	Views of the construction activity (Moderate, adverse, not significant).	There is low potential for combined effects on receptors at Pond Barn Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the construction phase.
	Operation Noise during operation (peak construction of main development site 2028) (Major adverse, significant).	Effects on health from particulate matter generated from operation (Negligible, not significant). Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	Views of operation (Moderate adverse, not significant). Views of proposed lighting at night during operation (Slight, adverse, not significant).	There is high potential for combined effects on receptors at Pond Barn Cottages. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors and so an additional significant adverse inter-relationship effect is likely during the operation phase.
<u>Farnham Hall Farmhouse.</u> Figure 1.2 – TVB10 <u>Noise and Vibration</u> – Receptor 14. <u>Air Quality</u> – Receptor E23_T_1 to E23_T_17. <u>Landscape and Visual</u> – Users of footpaths and residents around the south-east of Farnham and Farnham Hall (group 2).	Construction Noise during construction (Minor adverse, not significant). Vibration during construction (Negligible, not significant).	Effects on health from particulate matter generated from construction (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	Views of construction of the proposed Foxburrow Wood overbridge (Major-moderate adverse, significant).	There is high potential for combined effects on receptors at Farnham Hall Farmhouse. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors and so an additional significant adverse inter-relationship effect is likely during the construction phase.
	Operation Noise during peak construction (2028) and operation (2034) of main development site (Major adverse, significant)	Effects on health from particulate matter generated from operation (Negligible, not significant). Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	Views of the proposed Foxburrow Wood overbridge (Moderate adverse, not significant). Views of proposed lighting at night during operation (Slight, adverse, not significant).	There is high potential for combined effects on receptors at Farnham Hall Farmhouse. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors and so an additional significant adverse inter-relationship effect is likely during the operation phase.
<u>Farnham Street Farm.</u> Figure 1.2 – TVB12 <u>Noise and Vibration</u> – Receptor 17, 18, and 33. <u>Air Quality</u> – Receptor SX10. <u>Landscape and Visual</u> – Representative viewpoint 2 – residents and visitors around Friday Street (group 1).	Construction Noise during construction (Minor adverse, not significant). Vibration during construction (Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Moderate, adverse, not significant).	Views of the construction of the proposed eastern roundabout (Major-moderate, adverse, significant).	There is a high potential for combined effects arising from noise and vibration and air quality from construction and views of construction activity. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors at Farnham Street Farm during the construction phase and an additional significant adverse inter-relationship effect is likely.
	Operation Noise during peak construction (2028) and operation (2034) of main development site (Major adverse, significant)	Effects on health from particulate matter generated from operation (Negligible, not significant). Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	Views of the proposed eastern roundabout during operation (Moderate, adverse, not significant). Views of proposed lighting at night during operation (Major-moderate, adverse, significant).	There is a high potential for combined effects arising from noise and vibration from construction, air quality and views of construction activity. Combined, these effects are likely to lead to an increased sense of disturbance and so an additional significant adverse inter-relationship effect is likely.
<u>Rosehill Cottages.</u>	Construction			

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p>Figure 1.2 – TVB13</p> <p>Noise and Vibration – Receptor 19.</p> <p>Air Quality – Receptor SX10</p> <p>Landscape and Visual – Representative viewpoint 2 – residents and visitors around Friday Street (group 1).</p>	<p>Noise and vibration during set-up, site clearance and restoration (Negligible, not significant).</p> <p>Noise during construction (Minor, not significant)</p> <p>Vibration during construction (Negligible, not significant)</p>	<p>Effects on health from particulate matter generated from construction activities (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during construction (Moderate, adverse, not significant).</p>	<p>Views of the construction of the proposed eastern roundabout (Major-moderate, adverse, significant).</p>	<p>There is a high potential for combined effects arising from noise and vibration and air quality from construction, and views of construction. Combined, these effects are likely to lead to an increased sense of disturbance for receptors at Rosehill Cottages during the construction phase and an additional significant adverse inter-relationship is likely.</p>
	<p>Operation</p> <p>Noise during peak construction of main development site and busiest day (2028) (Moderate or major adverse, significant)</p> <p>Noise during operation of main development site (2034) (Negligible, not significant)</p>	<p>Effects on health from particulate matter generated from operation (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).</p>	<p>Views of the proposed eastern roundabout during operation (Moderate, adverse, not significant).</p> <p>Views of proposed lighting at night during operation (Major-moderate, adverse, significant).</p>	<p>There is a high potential for combined effects arising from noise and vibration from operation, and views of the site. Combined, these effects are likely to lead to an increased sense of disturbance for receptors at Rosehill Cottages during the operation phase and so an additional significant adverse inter-relationship is likely.</p>
<p>Benhall Stock Cottages.</p> <p>Figure 1.2 – TVB11</p> <p>Noise and Vibration – Receptors 32 and 16.</p> <p>Air Quality – Receptor SX5.</p> <p>Landscape and Visual – Visual receptor group 5.</p>	<p>Construction</p> <p>Noise during site set-up (Negligible, not significant)</p> <p>Vibration during site set-up (Moderate or Minor adverse, not significant)</p> <p>Noise and vibration during construction (Negligible, not significant)</p>	<p>Effects on health from particulate matter generated from construction activities (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).</p>	<p>Views of construction activity (Slight adverse, not significant).</p>	<p>There is low potential for combined effects on receptors at Benhall Stock Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely.</p>
	<p>Operation</p> <p>Noise during peak construction (2028) and operation of main development site (2034) (Beneficial, significant)</p>	<p>Effects on health from particulate matter generated from construction activities (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during construction (Moderate, beneficial, not significant).</p>	<p>Views of operation (Moderate adverse, not significant).</p>	<p>There is low potential for combined effects arising from noise and vibration and air quality from construction. Combined, these effects are not likely to lead to an increased sense of disturbance for receptors at Benhall Stock Cottages during the operation phase so no additional significant adverse inter-relationship is likely.</p>

Table 2B.5: Inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the Sizewell link road

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p><u>Kelsale Lodge Cottages.</u></p> <p>Figure 1.2 – SLR2</p> <p>Noise and Vibration – Receptor 29.</p> <p>Air Quality – Receptor YX4.</p> <p>Landscape and Visual – Users of public footpaths and local residents west of the A12 for one field (between Kelsale Lodge and Long Wood) (group 2).</p>	Construction			
	Noise during preparatory works, restoration and main construction phase (negligible, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Views of the construction of the proposed A12 roundabout and road and temporary contractor compounds (Major-moderate, adverse, significant).	There is high potential for combined effects on receptors at Kelsale Lodge Cottages. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors and so an additional significant adverse inter-relationship effect is likely during construction.
	Vibration during preparatory works and restoration (minor adverse, not significant)	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).		
	Vibration during main construction phase (negligible, not significant)			
Operation				
	Operational noise during peak construction year (2028) and first year of operation of the main development site (negligible, not significant)	Effects on health from particulate matter generated from operation (Negligible, not significant).	Views of the proposed A12 roundabout (Slight, adverse, not significant).	There is low potential for combined effects on receptors at Kelsale Lodge Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.
		Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	Views of proposed lighting at night during operation (Moderate adverse, not significant).	
<p><u>Fir Tree Farm.</u></p> <p>Figure 1.2 – SLR3</p> <p>Noise and Vibration – Receptor 1.</p> <p>Air Quality – Receptor YX9.</p> <p>Landscape and Visual – Users of public footpaths and local residents between the boundary of Rookery Park to the north, the East Suffolk Line to the east, Town Farm Lane to the south and the A12 to the west (group 1).</p>	Construction			
	Noise during preparatory works, restoration and main construction phase (minor adverse, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Views of the construction of the proposed A12 roundabout and road and temporary contractor compounds (Major-moderate to moderate, adverse, significant).	There is a high potential for combined effects from noise and vibration and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Fir Tree Farm during the construction phase and so an additional significant adverse inter-relationship effect is likely.
	Vibration during preparatory works and restoration (minor adverse, not significant)	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).		
	Vibration during main construction phase (negligible, not significant)			
Operation				
	Operational noise during peak construction year (2028) of the main development site (moderate adverse, significant)	Effects on health from particulate matter generated from operation (Negligible, not significant).	Views of the proposed A12 roundabout (Moderate, adverse, not significant).	There is a high potential for combined effects from noise and vibration and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Fir Tree Farm during operation and so an additional significant adverse inter-relationship effect is likely.
	Operational noise during first year of operation of the main development site (negligible, not significant)	Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	Views of proposed lighting at night during operation (Major-moderate, adverse, significant).	
<p><u>The Red House Farm and Rosetta.</u></p> <p>Figure 1.2 – SLR 1 and SLR 4.</p> <p>Noise and Vibration – Receptor 30, 31, 32.</p> <p>Air Quality – Receptor SX1.</p> <p>Landscape and Visual – Representative viewpoint 9 and group 2.</p>	Construction			
	Receptors 30 and 32 - Noise during preparatory works, restoration and main construction phase (minor adverse, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Views of the construction of the proposed A12 roundabout and road and temporary contractor compounds (Major-moderate, adverse, significant).	There is a high potential for combined effects from noise and vibration and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at The Red House Farm and Rosetta during the construction phase and so an additional significant adverse inter-relationship effect is likely.
	Receptor 31 - Noise during preparatory works, restoration and main construction phase (negligible, not significant)	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).		
	Receptors 30 and 32 – Vibration during preparatory works, restoration and main construction (minor adverse, not significant)			

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	Receptor 31 – Vibration during preparatory works, restoration and main construction (negligible, not significant)			
	Operation			
	Operational noise during peak construction year (2028) of the main development site (minor adverse, not significant)	Effects on health from particulate matter generated from operation (Negligible, not significant).	Views of the construction of the proposed A12 roundabout and road and temporary contractor compounds (Major-moderate, adverse, significant).	There is a high potential for combined effects arising from noise and vibration and air quality during operation. Combined, these effects are likely to lead to a sense of increased disturbance on receptors at The Red House Farm and Rosetta during operation, and so an additional significant adverse inter-relationship effect is likely.
	Operational noise during first year of operation of the main development site (negligible, not significant)	Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).		
B1122 East of Yoxford.	Construction			
<u>Noise and Vibration</u> – Receptor 25.	Noise during preparatory works, restoration and main construction phase (negligible, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	No effects identified at receptor location.	There is low potential for combined effects on receptors at B1122 East of Yoxford. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.
<u>Air Quality</u> – Receptor YX6.	Vibration during preparatory works and restoration (minor adverse, not significant)	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).		
<u>Landscape and Visual</u> – No corresponding visual receptor group. Outside zone of visual influence.	Vibration during main construction phase (negligible, not significant)			
	Operation			
	Operational noise during peak construction year (2028) of the main development site (minor adverse, not significant)	Effects on health from particulate matter generated from operation (Negligible, not significant).	No effects identified at receptor location.	There is low potential for combined effects on receptors at B1122 East of Yoxford. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.
	Operational noise during first year of operation of the main development site (negligible, not significant)	Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).		
Vale Cottage and Oakfield House.	Construction			
<u>Figure 1.2</u> – SLR5 and SLR6	Noise during preparatory works, restoration and main construction phase (minor adverse, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Views of construction (Major-moderate, adverse, significant).	There is a high potential for combined effects arising from noise and vibration and, views of construction and air quality during construction. Combined, these effects are likely to lead to a sense of increased disturbance on receptors at Vale Cottage and Oakfield House during construction, and so an additional significant adverse inter-relationship effect is likely.
<u>Noise and Vibration</u> – Receptor 19.	Vibration during preparatory works, restoration and main construction (negligible, not significant)	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).		
<u>Air Quality</u> – Receptor YX5.				
<u>Landscape and Visual</u> – Visual receptor group 3.	Operation			
	Operational noise during peak construction year (2028) and first year of operation of the main development site (major adverse, significant)	Effects on health from particulate matter generated from operation (Negligible, not significant).	Views of operation (Moderate, adverse, not significant).	There is a high potential for combined effects arising from noise and vibration and, views of lighting and air quality during operation. Combined, these effects are likely to lead to a sense of increased disturbance on receptors at Vale Cottage and Oakfield House during operation, and so an additional significant adverse inter-relationship effect is likely.
		Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	Views of proposed lighting at night during operation (Moderate, adverse, not significant).	
	Construction			

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p>Valley Farm House, Annesons Cottage and Coronation Cottages.</p> <p>Figure 1.2 – SLR11 and SLR12.</p> <p>Noise and Vibration – Receptor 10, 11, 20, 21 and 22.</p> <p>Air Quality – Receptor YX7.</p>	<p>Noise during preparatory works, restoration and main construction phase (minor adverse, not significant)</p> <p>Receptors 10, 20 and 22 – Vibration during preparatory works, restoration and main construction (negligible, not significant)</p> <p>Receptors 11 and 21 - during preparatory works, restoration and main construction (minor adverse, not significant)</p>	<p>Effects on health from particulate matter generated from construction activities (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).</p>	<p>Views of construction activity (Major-moderate, adverse, significant).</p>	<p>There is a high potential for combined effects arising from noise and vibration and, views of construction and air quality during construction. Combined, these effects are likely to lead to a sense of increased disturbance on receptors at Valley Farm House, Annesons Cottage and Coronation Cottages during construction, and so an additional significant adverse inter-relationship effect is likely.</p>
<p>Landscape and Visual Representative viewpoint and group 4.</p>	<p>Operation</p> <p>Receptor 10 - Operational noise during peak construction year (2028) and first year of operation of the main development site (minor beneficial, not significant)</p> <p>Receptor 11 - Operational noise during peak construction year (2028) (negligible, not significant)</p> <p>Receptor 11 – Operational noise during first year of operation of the main development site (moderate beneficial, significant)</p> <p>Receptor 20 - Operational noise during peak construction year (2028) of the main development site (major adverse, significant)</p> <p>Receptor 20 – Operational noise during first year of operation of the main development site (moderate adverse, significant)</p> <p>Receptors 21 and 22 - Operational noise during peak construction year (2028) of the main development site (minor beneficial, not significant)</p> <p>Receptors 21 and 22 – Operational noise during first year of operation of the main development site (moderate beneficial, significant)</p>	<p>Effects on health from particulate matter generated from operation (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).</p>	<p>Views of operation (Moderate, adverse, not significant).</p> <p>Views of proposed lighting at night during operation (Moderate, adverse, not significant).</p>	<p>There is a high potential for combined effects arising from noise and vibration and, views of construction and air quality during operation. Combined, these effects are likely to lead to a sense of increased disturbance on receptors at Valley Farm House, Annesons Cottage and Coronation Cottages during construction, and so an additional significant adverse inter-relationship effect is likely.</p>
<p>Forge Cottage and Walnut Cottage.</p> <p>Figure 1.2 – SLR14 and SLR15</p> <p>Noise and Vibration – Receptors 15, 16 and 28.</p> <p>Air Quality – Receptors LE5 and LE6.</p>	<p>Construction</p> <p>Receptor 15 - Noise during preparatory works, restoration and main construction phase (minor adverse, not significant)</p> <p>Receptors 16 and 28 - Noise during preparatory works, restoration and main construction phase (negligible, not significant)</p>	<p>Effects on health from particulate matter generated from construction activities (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).</p>	<p>Views of construction activity (Major-moderate, adverse, significant).</p>	<p>There is a high potential for combined effects arising from noise and vibration from construction and views of construction activity. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors at Forge Cottage and Walnut Cottage during the construction phase and an additional significant adverse inter-relationship effect is likely and an additional significant adverse inter-relationship effect is likely.</p>

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
Landscape and Visual – Representative viewpoint 1 and group 7.	Vibration during preparatory works, restoration and main construction phase (negligible, not significant)			
	Operation Receptors 15 and 16 - Operational noise during peak construction year (2028) (major adverse, significant) Receptors 15 and 16 - Operational noise during first year of operation of the main development site (minor adverse, not significant) Receptor 28 - Operational noise during peak construction year (2028) and first year of operation of the main development site (major beneficial, significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible (LE5) to minor beneficial (average and busiest day) (LE6), not significant).	Views of operation (Moderate, adverse, not significant).	There is a high potential for combined effects arising from noise and vibration from operation and views of the operational road. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors at Forge Cottage and Walnut Cottage during the operation phase and so an additional significant adverse inter-relationship effect is likely.
The Granary and Theberton Grange. Figure 1.2 – SLR 17 Noise and Vibration – Receptor 17 and 38. Air Quality – Receptor LE4. Landscape and Visual – no corresponding visual receptor group. Outside zone of visual influence.	Construction			
	Noise during preparatory works, restoration and main construction phase (minor adverse, not significant) Vibration during preparatory works, restoration and main construction phase (negligible, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	No effects identified at receptor location.	There is low potential for combined effects on receptors at The Granary and Theberton Grange. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.
	Operation Operational noise during peak construction year (2028) (major adverse, significant) Receptor 17 - Operational noise during first year of operation of the main development site (moderate adverse, significant) Receptor 38 - Operational noise during first year of operation of the main development site (negligible, not significant)	Effects on health from particulate matter generated from operation (Negligible, not significant). Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	No effects identified at receptor location.	There is high potential for combined effects on receptors at The Granary and Theberton Grange. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors and so an additional significant adverse inter-relationship effect is likely during operation.

Table 2B.6: Inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the Yoxford roundabout and other highway improvements

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
High Street, Cavan Cottage, and surrounding properties. Figure 1.3 – YOX1 & YOX7 Noise and Vibration – Receptor 10, 11, 12, 13.	Construction			
	Noise from roundabout site preparation works, main construction works and vibration during main construction works (negligible, not significant) Noise and vibration of construction of A12/A144 junction improvement works (negligible, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	Change to channelled view towards existing A12/B1122 junction (Slight, adverse, not significant).	There is a low potential for combined effects arising from noise and vibration and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at High Street, Cavan Cottage, and surrounding properties

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
Air Quality – Receptors YX2. Landscape and Visual – Representative viewpoint R4.	Operation Noise from the operation of the road in 2028 and 2028 busiest period (negligible, not significant) Noise during operation in 2034 (negligible, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	Change to channelled view towards existing A12/B1122 junction (Slight, adverse, not significant). Visibility of proposed lighting at night (Minimal neutral, not significant).	during the construction phase and so no additional significant adverse inter-relationship effect is likely. There is a low potential for combined effects arising from noise and vibration from operation and views of the roundabout. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at High Street, Cavan Cottage, and surrounding properties during operation and so no additional significant adverse inter-relationship effect is likely.
Brook Street, Woodland Cottages, White House / Lodge. Figure 1.3 – YOX2 Noise and Vibration – Receptor 1 and 4. Air Quality – YX3. Landscape and Visual – Representative Viewpoint 3.	Construction Noise from roundabout site preparation works, main construction works and vibration during main construction works (negligible, not significant) Receptor 4 - Noise and vibration of construction of A12/A144 junction improvement works (negligible, not significant) Receptor 1 - Noise and vibration of construction of A12/A144 junction improvement works (minor adverse, not significant) Operation Noise from the operation of the road in 2028 and 2028 busiest period (negligible, not significant) Noise during operation in 2034 (negligible, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	Views of construction activity (Moderate adverse, not significant). Visibility of proposed Yoxford roundabout and associated infrastructure (Moderate adverse, not significant). Visibility of proposed lighting at night (Slight adverse, not significant).	There is a low potential for combined effects arising from noise and vibration, air quality and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at Brook Street, Woodland Cottages and White House / Lodge during the construction phase and so no additional significant adverse inter-relationship effect is likely. There is a low potential for combined effects arising from noise and vibration, air quality and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at Brook Street, Woodland Cottages and White House / Lodge during operation and so no additional significant adverse inter-relationship effect is likely.
Rookery Lodge, Pinn's Piece and Sans Souci. Figure 1.3 – YOX3 Noise and Vibration – Receptor 5, 6, 7. Air Quality – YX18. Landscape and Visual – Representative Viewpoint 3.	Construction Receptors 6 and 7 - Noise from roundabout site preparation works, main construction works and vibration during main construction works (negligible, not significant) Receptor 5 - Noise from roundabout site preparation works (negligible, not significant), Receptor 5 – noise from roundabout main construction works (minor adverse, not significant) Receptor 5 – Vibration during construction of roundabout (negligible, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	Views of construction activity (Moderate adverse, not significant).	There is a low potential for combined effects arising from noise and vibration, air quality and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at Rookery Lodge, Pinn's Piece and Sans Souci during the construction phase and so no additional significant adverse inter-relationship effect is likely.

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	Noise and vibration of construction of A12/A144 junction improvement works (negligible, not significant)			
	Operation			
	Noise from the operation of the road in 2028 and 2028 busiest period (negligible, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Visibility of proposed Yoxford roundabout and associated infrastructure (moderate adverse, not significant).	There is a low potential for combined effects arising from noise and vibration, air quality and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at Rookery Lodge, Pinn's Piece and Sans Souci during operation and so no additional significant adverse inter-relationship effect is likely.
	Noise during operation in 2034 (negligible, not significant)	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	Visibility of proposed lighting at night (Slight adverse, not significant).	
Sunnypatch, Middleton Road, The Old Barn Rookery Cottages and the Barn. <u>Figure 1.3 – YOX4 and YOX5.</u> <u>Noise and Vibration – Receptor 14, 15, 8 and 9.</u> <u>Air Quality – YX6 and YX19.</u> <u>Landscape and Visual – Representative viewpoint 2.</u>	Construction			
	Receptor 14 - Noise from roundabout site preparation works, main construction works (negligible, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Views of construction activity (Moderate adverse, not significant).	There is a low potential for combined effects arising from noise and vibration, air quality and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at Sunnypatch, Middleton Road, The Old Barn Rookery Cottages and the Barn during the construction phase and so no additional significant adverse inter-relationship effect is likely.
	Receptors 15, 8 and 9 - Noise from roundabout site preparation works (minor adverse, not significant),	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).		
	Receptors 15, 8 and 9 – noise from roundabout main construction works (minor adverse, not significant)			
	Receptor 9 – Vibration during compaction of temporary constructors' compound (moderate adverse, not significant due to duration)			
	Receptor 8 – Vibration during earthworks of roundabout (minor adverse, not significant)			
	Vibration during all phases of construction (negligible, not significant)			
	Noise and vibration of construction of A12/A144 junction improvement works (negligible, not significant)			
	Operation			
	Noise from the operation of the road in 2028 and 2028 busiest period (minor adverse, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Visibility of proposed Yoxford roundabout and associated infrastructure (Moderate adverse, not significant).	There is a low potential for combined effects arising from noise and vibration, air quality and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at Sunnypatch, Middleton Road, The Old Barn Rookery Cottages and the Barn operation and so no additional significant adverse inter-relationship effect is likely.
	Noise during operation in 2034 (negligible, not significant)	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	Visibility of proposed lighting at night (Slight adverse, not significant).	

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p>Cockfield Hall Lodge and surrounding properties.</p> <p>Figure 1.3 – YOX6</p> <p>Noise and Vibration – 23</p> <p>Air Quality – Receptor YX20.</p> <p>Landscape and Visual – Representative Viewpoint 1.</p>	Construction			
	Noise from roundabout site preparation works (minor adverse, not significant), Vibration during earthworks of roundabout (minor adverse, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Views of construction activity through vegetation (Minimal, neutral, not significant).	There is a low potential for combined effects arising from noise and vibration, air quality and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at Cockfield Hall Lodge during the construction phase and so no additional significant adverse inter-relationship effect is likely.
	Noise and vibration of construction of A12/A144 junction improvement works (negligible, not significant)	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).		
	Operation			
Noise from the operation of the road in 2028 and 2028 busiest period (minor adverse, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Visibility of tops of proposed lighting columns and glimpses of road infrastructure (Slight adverse, not significant).	There is a low potential for combined effects arising from noise and vibration, air quality and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at Cockfield Hall Lodge during operation and so no additional significant adverse inter-relationship effect is likely.	
Noise during operation in 2034 (negligible, not significant)	Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	Visibility of proposed lighting at night (Slight adverse, not significant).		

Table 2B.7: Inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the freight management facility

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p>1 and 2 Keepers Cottages.</p> <p>Figure 1.2 – FMF3</p> <p>Noise and Vibration – 1 and 2 Keepers Cottages.</p> <p>Air Quality – Receptors BK8 and BK8c.</p> <p>Landscape and Visual – Representative Viewpoint 1.</p>	Construction			
	Construction noise (no higher than minor adverse, not significant).	Effects on amenity or health from particulate matter generated from construction activities (Negligible, not significant).	Views of construction activity, (Major-moderate, adverse significant).	There is a high potential for combined effects arising from noise and vibration from construction, air quality and views of construction activity. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors at 1 and 2 Keepers Cottage during the construction phase and an additional significant adverse inter-relationship effect is likely and so an additional significant adverse inter-relationship effect is likely.
	Construction vibration (negligible, not significant).	Exhaust emissions from additional road vehicle movements during construction (negligible, not significant).		
	Operation			
Noise and vibration from operation of the proposed development (negligible, not significant).	Effects on health from particulate matter generated from operation (Negligible, not significant).	Views of the freight management facility (Moderate to slight adverse, not significant).	There is a low potential for combined effects arising from noise and vibration, air quality and views of the operational freight management facility. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at 1 and 2 Keepers Cottage during operation and so no additional significant adverse inter-relationship effect is likely.	
	Exhaust emissions from additional road vehicle movements during operation (negligible, not significant).	Visibility of proposed lighting at night. (Negligible neutral, not significant).		
Removal and Reinstatement				
Noise during removal and reinstatement (no higher than minor adverse, not significant).	Effects on amenity or health from particulate matter generated from construction activities (Negligible, not significant).	Views of construction activity, (Major-moderate, adverse significant).	There is a high potential for combined effects arising from noise and vibration from construction, air quality and views of construction activity. Combined, these effects are likely to lead to an increased sense of	
Vibration from removal and reinstatement (negligible, not significant).				

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
		Exhaust emissions from additional road vehicle movements during construction (negligible, not significant).		disturbance for the receptors at 1 and 2 Keepers Cottage during the construction phase and an additional significant adverse inter-relationship effect is likely and so an additional significant adverse inter-relationship effect is likely.
<u>Property Adjacent Walk Barn.</u>	Construction			
<u>Figure 1.2 – FMF2</u> <u>Noise and Vibration</u> – No corresponding residential receptor. <u>Air Quality</u> – BK 4	No effects identified at receptor location.	Effects on amenity or health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (negligible, not significant).	No effects identified at receptor location.	There is no potential for combined effects on receptors at Property Adjacent Walk Barn and so no additional significant adverse inter-relationship effect is likely during construction.
	Operation			
<u>Landscape and Visual</u> – No corresponding visual receptor group.	No effects identified at receptor location.	Effects on health from particulate matter generated from operation (Negligible, not significant). Exhaust emissions from additional road vehicle movements during operation (negligible, not significant).	No effects identified at receptor location.	There is no potential for combined effects on receptors at Property Adjacent Walk Barn and so no additional significant adverse inter-relationship effect is likely during operation.
	Removal and reinstatement.			
	No effects identified at receptor location.	Effects on amenity or health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (negligible, not significant).	No effects identified at receptor location.	There is no potential for combined effects on receptors at Property Adjacent Walk Barn and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.
<u>Woodland View.</u>	Construction			
<u>Figure 1.2 – FMF1</u> <u>Noise and Vibration</u> – No corresponding residential receptor. <u>Air Quality</u> – Receptor BK 6.	No effects identified at receptor location.	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (negligible, not significant).	No effects identified at receptor location.	There is no potential for combined effects on receptors at Woodland View and so no additional significant adverse inter-relationship effect is likely during construction.
	Operation			
<u>Landscape and Visual</u> – No corresponding visual receptor group.	No effects identified at receptor location.	Effects on health from particulate matter generated from operation (Negligible, not significant). Exhaust emissions from additional road vehicle movements during operation (negligible, not significant).	No effects identified at receptor location.	There is no potential for combined effects on receptors at Woodland View and so no additional significant adverse inter-relationship effect is likely during operation.
	Removal and reinstatement.			
	No effects identified at receptor location.	Effects on health from particulate matter generated from removal and reinstatement activities (Negligible, not significant).	No effects identified at receptor location.	There is no potential for combined effects on receptors at Woodland View and so no additional significant adverse inter-relationship effect is likely during removal and restoration.

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
		Exhaust emissions from additional road vehicle movements during removal and reinstatement activities (Negligible, not significant).		

Table 2B.8: Inter-relationship effects on residential receptors , commercial facilities, community facilities and schools from activity at the rail proposals

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
Abbey Lodge Farm	Construction			
<u>Figure 1.2</u> – GR1 <u>Noise and Vibration</u> – No corresponding residential receptor	Noise and vibration during construction (Negligible or minor, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	No effects identified at receptor location.	There is low potential for combined effects on receptors at Abbey Lodge Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.
<u>Air Quality</u> – Receptor LE3.	Operation			
<u>Landscape and Visual</u> – No corresponding visual receptor group.	Night time and daytime noise during operation of the rail extension and branch line (Negligible, not significant) Night time noise during operation of the east Suffolk line (Negligible, not significant) Daytime noise during operation of the east Suffolk line (Low, not significant)	Effects on health from particulate matter generated from operation (Negligible, not significant). Exhaust emissions from additional road vehicle movements during operation (Average day - Negligible, not significant, Busiest day - Minor, adverse, not significant).	No effects identified at receptor location.	There is low potential for combined effects on receptors at Abbey Lodge Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.
	Removal and Reinstatement.			
	Noise and vibration during removal and reinstatement (Negligible or minor, not significant).	Effects on health from particulate matter generated from removal and reinstatement activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).	No effects identified at receptor location.	There is low potential for combined effects on receptors at Abbey Lodge Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.
Old Abbey Farm	Construction			
<u>Figure 1.2</u> – GR2 <u>Noise and Vibration</u> – Receptor 8. <u>Air Quality</u> – Receptor LE17.	Noise and vibration during construction (Negligible or minor, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	No effects identified at receptor location.	There is low potential for combined effects on Old Abbey Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.
<u>Landscape and Visual</u> – No corresponding visual receptor group.	Operation			
	Night time and daytime noise during operation of the rail extension and branch line (Negligible, not significant) Night time noise during operation of the east Suffolk line (Negligible, not significant)	Effects on health from particulate matter generated from operation (Negligible, not significant). Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	No effects identified at receptor location.	There is low potential for combined effects on Old Abbey Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during Operation.

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	Daytime noise during operation of the east Suffolk line (Low, not significant)			
	Removal and reinstatement.			
	Noise and vibration during removal and reinstatement (Negligible or minor, not significant)	Effects on health from particulate matter generated from removal and restoration (Negligible, not significant). Exhaust emissions from additional road vehicle movements during removal and restoration (Negligible, not significant).	No effects identified at receptor location.	There is low potential for combined effects on Old Abbey Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.
<u>Pro Corda</u>	Construction			
<u>Figure 1.2 – GR4</u> <u>Noise and Vibration – Receptor 7</u> <u>Air Quality – Receptor LE15 and LE16.</u>	Noise and vibration during construction (Negligible or minor, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	Glimpsed views of construction (Slight, adverse, not significant).	There is low potential for combined effects on Pro Corda. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.
	Operation			
<u>Landscape and Visual – Representative Viewpoint 1 (although viewpoint is more elevated - group 3).</u>	Night time and daytime noise during operation of the rail extension and branch line (Negligible, not significant) Night time noise during operation of the east Suffolk line (Negligible, not significant) Daytime noise during operation of the east Suffolk line (Low, not significant)	Effects on health from particulate matter generated from operation (Negligible, not significant). Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	Glimpsed views of trains and bunds through Abbey Lane vegetation and more open views of Abbey Road level crossing (Slight, adverse, not significant).	There is low potential for combined effects on Pro Corda. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.
	Removal and reinstatement.			
	Noise and vibration during removal and reinstatement (Negligible or minor, not significant)	Effects on health from particulate matter generated from removal and reinstatement (Negligible, not significant). Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).	Glimpsed views of construction (Slight, adverse, not significant).	There is low potential for combined effects on Pro Corda. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.
<u>105 Abbey Road</u>	Construction			
<u>Figure 1.2 – GR6</u> <u>Noise and Vibration – Receptor 3 and 4</u> <u>Air Quality – Receptor LE2 and LE19.</u>	Noise and vibration during construction (Negligible or minor, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	Views of construction (Minimal, adverse, not significant).	There is low potential for combined effects on receptors at 105 Abbey Road. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.
	Operation			
<u>Landscape and Visual – Close to representative Viewpoint 2 (group 1).</u>	Night time and daytime noise during operation of the branch line and rail extension during the early years (Negligible, not significant)	Effects on health from particulate matter generated from operation (Negligible, not significant).	Views of trains and bunds through garden vegetation (Moderate, adverse, not significant).	There is no potential for combined effects on receptors at 105 Abbey Road. Combined, these effects are unlikely to lead to an increased sense

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
	<p>Rail extension and branch line during later years at Receptor 3 (Low, not significant)</p> <p>Night time noise during operation of the east Suffolk line (Negligible, not significant)</p> <p>Daytime noise during operation of the east Suffolk line (Low, not significant)</p> <p>Removal and reinstatement.</p>	<p>Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).</p>	<p>Visibility of proposed lighting at night. (Minimal, neutral, not significant).</p>	<p>of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.</p>
	<p>Noise and vibration during removal and reinstatement (Negligible or minor, not significant)</p>	<p>Effects on health from particulate matter generated from removal and reinstatement (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).</p>	<p>Views of construction (Minimal, adverse, not significant).</p>	<p>There is low potential for combined effects on receptors at 105 Abbey Road. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.</p>
<p><u>Phoenix Cottage, Harling Way, Leiston and Highbury Cottages</u></p> <p>Figure 1.2 – GR13, GR14 and GR15</p> <p>Noise and Vibration – Receptor 9.</p> <p>Air Quality – Receptor LE20, LE21 and LE22.</p> <p>Landscape and Visual – Visual receptor group 1.</p>	<p>Construction</p> <p>Noise and vibration during construction (Negligible or minor, not significant)</p>	<p>Effects on health from particulate matter generated from construction activities (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).</p>	<p>Views of construction activity (Minimal adverse, not significant).</p>	<p>There is low potential for combined effects on properties at Phoenix Cottage, Harling Way, Leiston and Highbury Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.</p>
	<p>Operation</p> <p>Night time and daytime noise during operation of the rail extension and branch line (Negligible, not significant)</p> <p>Night time noise during operation of the east Suffolk line (Negligible, not significant)</p> <p>Daytime noise during operation of the east Suffolk line (Low, not significant)</p> <p>Removal and Reinstatement.</p>	<p>Effects on health from particulate matter generated from operation (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).</p>	<p>Views of operation (Moderate adverse, not significant).</p>	<p>There is low potential for combined effects on properties at Phoenix Cottage, Harling Way, Leiston and Highbury Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.</p>
	<p>Noise and vibration during removal and reinstatement (Negligible or minor, not significant)</p>	<p>Effects on health from particulate matter generated from removal and reinstatement (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).</p>	<p>Views of removal and reinstatement activity (Minimal adverse, not significant).</p>	<p>There is low potential for combined effects on properties at Phoenix Cottage, Harling Way, Leiston and Highbury Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.</p>
<p><u>Wood Farm Cottages, Westward Ho</u></p> <p>Figure 1.2 – GR16</p> <p>Noise and Vibration – Receptor 9</p>	<p>Construction</p> <p>Noise and vibration during construction (Negligible or minor, not significant)</p>	<p>Effects on health from particulate matter generated from construction activities (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).</p>	<p>Views of construction (Minimal, adverse, not significant).</p>	<p>There is low potential for combined effects on properties at Westwood Farm Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.</p>

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<u>Air Quality</u> – Receptor LE56. <u>Landscape and Visual</u> – Representative viewpoint 7 (group 1).	Operation Night time and daytime noise during operation of the rail extension and branch line (Negligible, not significant) Night time noise during operation of the east Suffolk line (Negligible, not significant) Daytime noise during operation of the east Suffolk line (Low, not significant) Removal and Reinstatement.	Effects on health from particulate matter generated from operation (Negligible, not significant). Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	Occasional views of trains and bunds through garden/trackside vegetation (Moderate, adverse, not significant). Visibility of proposed lighting at night. (Minimal, neutral, not significant).	There is low potential for combined effects on properties at Westwood Farm Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.
	Noise and vibration during removal and reinstatement (Negligible or minor, not significant)	Effects on health from particulate matter generated from removal and reinstatement (Negligible, not significant). Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).	Views of construction (Minimal, adverse, not significant).	There is low potential for combined effects on properties at Westwood Farm Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.
<u>Leiston House Farm</u> Figure 1.2 – GR17 <u>Noise and Vibration</u> – Receptor 5. <u>Air Quality</u> – Receptor LE55. <u>Landscape and Visual</u> – No corresponding visual receptor group.	Construction Noise and vibration during construction (Negligible or minor, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).	No effects identified at receptor location.	There is low potential for combined effects on properties at Leiston House Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.
	Operation Night time and daytime noise during operation of the rail extension and branch line (Negligible, not significant) Night time noise during operation of the east Suffolk line (Negligible, not significant) Daytime noise during operation of the east Suffolk line (Low, not significant) Removal and Reinstatement.	Effects on health from particulate matter generated from operation (Negligible, not significant). Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	No effects identified at receptor location.	There is low potential for combined effects on properties at Leiston House Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.
	Noise and vibration during removal and reinstatement (Negligible or minor, not significant)	Effects on health from particulate matter generated from removal and reinstatement (Negligible, not significant). Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).	No effects identified at receptor location.	There is low potential for combined effects on properties at Leiston House Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.
	Construction Noise and vibration during construction (Negligible or minor, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Views of construction activity (Major-moderate, adverse, not significant).	There is low potential for combined effects on receptors at Fisher's Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<u>Air Quality</u> – Receptor LE23. <u>Landscape and Visual</u> – Representative viewpoint 4 (although viewpoint is more open - group 2).	Operation			
	Night time and daytime noise during operation of the rail extension and branch line (Negligible, not significant)	Effects on health from particulate matter generated from operation (Negligible, not significant).	Views of proposed lighting columns and operational vehicles and infrastructure (Major-moderate, adverse, not significant).	There is low potential for combined effects on receptors at Fisher's Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.
	Night time noise during operation of the east Suffolk line (Negligible, not significant)	Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	Visibility of proposed lighting at night (Minimal, adverse, not significant).	
	Daytime noise during operation of the east Suffolk line (Low, not significant)			
Removal and Reinstatement.				
Noise and vibration during removal and reinstatement (Negligible or minor, not significant)	Effects on health from particulate matter generated from removal and reinstatement (Negligible, not significant).	Views of construction associated with removal and restoration (Minimal, neutral, not significant).	There is low potential for combined effects on receptors at Fisher's Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.	
Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).				
<u>Abbey Lane (Gypsy Lodge)</u> <u>Figure 1.2</u> – GR19 <u>Noise and Vibration</u> – Receptor 6. <u>Air Quality</u> – Receptor LE54. <u>Landscape and Visual</u> – Visual receptor group 5.	Construction			
	Noise and vibration during construction (Negligible or minor, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Views of construction activity (Moderate adverse, not significant).	There is low potential for combined effects on receptors at Abbey Lane. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.
		Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).		
	Operation			
Night time and daytime noise during operation of the rail extension and branch line (Negligible, not significant)	Effects on health from particulate matter generated from operation (Negligible, not significant).	Views of operation (Moderate adverse, not significant).	There is low potential for combined effects on receptors at Abbey Lane. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.	
Night time noise during operation of the east Suffolk line (Negligible, not significant)	Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).			
Daytime noise during operation of the east Suffolk line (Low, not significant)				
Removal and Reinstatement.				
Noise and vibration during removal and reinstatement (Negligible or minor, not significant).	Effects on health from particulate matter generated from removal and reinstatement (Negligible, not significant).	Views of removal and reinstatement (Moderate adverse, not significant).	There is low potential for combined effects on receptors at Abbey Lane. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.	
Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).				
<u>Aldhurst Farm Cottage</u> <u>Figure 1.2</u> – GR20	Construction			
	Noise and vibration during construction (Negligible or minor, not significant).	Effects on health from particulate matter generated from construction activities (Negligible, not significant).	Views of construction activity (Major-moderate, adverse, significant).	There is low potential for combined effects on receptors at Aldhurst Farm Cottage. Combined, these effects are unlikely to lead to an increased

NOT PROTECTIVELY MARKED

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potential for combined effect.
<p><u>Noise and Vibration</u> – Receptor 1.</p> <p><u>Air Quality</u> – Receptor LE18.</p>		<p>Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).</p>		<p>sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.</p>
<p><u>Landscape and Visual</u> – Representative viewpoint 5 (although viewpoint is more open - group 2).</p>	<p>Operation</p> <p>Night time and daytime noise during operation of the rail extension and branch line (Negligible, not significant)</p> <p>Night time noise during operation of the east Suffolk line (Negligible, not significant)</p> <p>Daytime noise during operation of the east Suffolk line (Low, not significant)</p>	<p>Effects on health from particulate matter generated from operation (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).</p>	<p>Views of proposed lighting columns and operational vehicles and infrastructure (Major-moderate, adverse, not significant).</p> <p>Visibility of proposed lighting at night (Minimal, adverse, not significant).</p>	<p>There is low potential for combined effects on receptors at Aldhurst Farm Cottage. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.</p>
	<p>Removal and Reinstatement.</p> <p>Noise and vibration during removal and reinstatement (Negligible or minor, not significant).</p>	<p>Effects on health from particulate matter generated from removal and reinstatement (Negligible, not significant).</p> <p>Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).</p>	<p>Views of construction associated with removal and restoration (Major-moderate, adverse, not significant).</p>	<p>There is low potential for combined effects on receptors at Aldhurst Farm Cottage. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.</p>