

REDCAR ENERGY CENTRE APPENDIX 10.1

Transport Assessment







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1 INTRODUCTION

- 1.1.1 This Transport Assessment (TA) has been prepared by RPS on behalf of Redcar Holdings Limited to support a planning application for the proposed Redcar Energy Centre (REC) at Redcar Bulk Terminal. The site location plan is attached at **Annex A.**
- 1.1.2 The proposed REC would provide a long-term sustainable waste management and energy generation operation located adjacent to the former steel works at land at Redcar Bulk Terminal comprising of the following elements:
 - a Material Recovery Facility (MRF) incorporating a Bulk Storage Facility;
 - an Energy Recovery Facility (ERF); and,
 - an Incinerator Bottom Ash (IBA) Recycling Facility.
- 1.1.3 A site layout plan is attached at **Annex B**. The key operational components of which the REC is comprised may operate as a single facility or as standalone projects independent of each other with some or no inter-relationship. The ERF may receive residual waste directly from the MRF and from elsewhere. The IBA Recycling Facility is intended to receive IBA directly from the ERF but could also import IBA from elsewhere.
- 1.1.4 In addition to being well served by road, all three operational components have the potential to bring waste and materials into and out of the site using the rail and port infrastructure in the wider area.
- 1.1.5 The MRF would receive up to approximately 200,000 tonnes per annum (tpa) of MSW and/ or C&I waste. The specialist facility would separate, recover and store the waste, sorting it into recyclable and non-recyclable materials i.e. residual waste. The proposed ERF would be capable of generating up to 49.9 MW(e) of electricity from up to approximately 450,000 tpa of waste, depending on calorific value.
- 1.1.6 The IBA from the ERF process would be transferred along an inclined conveyor system to the bottom ash reception bunker where it is stored prior to being transferred to the process building. Any imports of IBA would be by vessel over the dock. The area for the ash plant would have a capacity of about 220,000tpa, with an import target of 100,000tpa.
- 1.1.7 This TA assesses the transport implications of REC and forms an appendix to the Environmental Statement (ES) submitted in support of the planning application.
- 1.1.8 The TA has been prepared in accordance with the Ministry of Housing, Communities and Local Government publications 'National Planning Policy Framework' (NPPF), 2019, 'Planning Practice Guidance: Travel Plans, Transport Assessments and Statements in Decision-Taking' (PPG), 2014, and the Department for Transport (DfT) publication Circular 02/2013: 'The Strategic Road Network and the Delivery of Sustainable Development', 2013.
- 1.1.9 Section 2 sets out the existing situation and assesses the adjacent highway network, road safety, facilities for pedestrians and cyclists, public transport facilities and existing traffic flows. Section 3 provides full details of the project, whilst an assessment is made against current local and national policies in respect to transport in Section 4.
- 1.1.10 Future year traffic flows are set out in Section 5 and details of the likely trip generation, distribution, assignment and mode share of trips is set out in Section 6. An assessment of the likely transport impact is set out in Section 7.
- 1.1.11 A summary is provided in Section 8, where it is concluded that there are no transport or highway related reasons for not granting consent to the project.





2 EXISTING SITUATION

2.1 Introduction

2.1.1 This section considers the current site use, location and transport network. This includes the walking, cycling and public transport facilities available within proximity of the site. It also assesses the local highway network and Personal Injury Accidents on the highway network for the last five years.

2.2 Site Location and Description

- 2.2.1 The Application Site is located approximately 4.5 km west of Redcar town centre and 8.5 km to the north east of Middlesbrough town centre. The Application Site occupies an area of approximately 10.1 hectares (ha) and currently forms part of the Redcar Bulk Terminal. The Application Site is predominantly open land which has been used for the storage of materials from the terminal. There are also a number of small corrugated metal buildings located in the east of the Application Site.
- 2.2.2 The industrial site and associated infrastructure of the Teesside Steel Works borders the eastern edge of the Application Site, with several of its outlying buildings making up the southern border of the Application Site.
- 2.2.3 An access road for the Redcar Bulk Terminal (located on the eastern bank of the River Tees) runs along the south west of the Application Site. The north eastern boundary abuts the Teesmouth and Cleveland Coast Site of Scientific Interest (SSSI). The surrounding landscape to the south, east and west is dominated by industrial activity with the Northumbrian Water Sewage Works, British Steel Redcar Station and Redcar Bulk Terminal within approximately 2 km of the site.

2.3 Highway Network

2.3.1 The Application Site is accessed from the public highway network via the South Tees
Development Corporation access, taken from a five-arm roundabout with A1085 Trunk Road and
the Wilton Site access road. Beyond which, traffic generated at the site travels along A1085 Trunk
Road to the north east, and along A1085 Trunk Road, the A66 and A1053 to the south west.

A1085 Trunk Road

- 2.3.2 The A1085 Trunk Road is a dual carriageway road that routes from the A1053 to the south west, to the A1042 / A1085 Corporation Road junction to the north east. There is street lighting and a combined foot / cycleway on both sides of the carriageway. To the north of the access road roundabout, the A1085 Trunk Road reduces to a single carriageway road
- 2.3.3 The A1085 continues to the east where it provides access to Redcar, continuing parallel to the coast to Marske-by-the-Sea, and routes south to join the A174.
- 2.3.4 To the south west of the Application Site, the A1085 Trunk Road provides access to a number of industrial sites such as British Steel and UK Wood Recycling. This section of the road network adjacent to the River Tees is heavily industrialised, and A1085 Trunk Road provides no access to residential dwellings between the A1053 junction and the Application Site access roundabout.
- 2.3.5 The A1085 Trunk Road has a central grass strip as a central reservation within the vicinity of the access road roundabout. The five-arm roundabout from which the Application Site access road is taken from is a relatively flat grassed roundabout, therefore vehicles on each arm have good visibility of several arms of the roundabout.





A1053 Greystone Road / Tees Dock Road

- 2.3.6 The A1053 Greystone Road routes from the A1085 Trunk Road via a signalised five-arm roundabout with the A1085 and Wilton International site access. The A1053 is part of the Strategic Road Network and is maintained by Highways England. It is a dual carriageway road subject to the national speed limit.
- 2.3.7 The A1053 Greystone Road routes south-east for approximately 2km where it joins the A174, which is also part of the Strategic Road Network and maintained by Highways England. To the west of the A1085 Trunk Road roundabout, the A1053 Tees Dock Road routes for approximately 300 metres to join the A66 via a three-arm roundabout.
- 2.3.8 The combined foot / cycleway along the A1085 Trunk Road routes across the A1053 Greystone Road arm of the five-arm roundabout; however, it does not extend along the A1053 Greystone Road towards the A174. The combined foot / cycleway instead routes west of the roundabout along the A1053 Tees Dock Road to the A66 roundabout.

A174

2.3.9 The A174 routes from the A1053 Greystone Road via a four-arm roundabout to the south-west the A74 is a strategic road maintained by Highways England, and routes across the southern perimeter of Middlesbrough. The A174 provides access to key strategic roads and residential areas in south Middlesbrough before joining the A19 via a grade-separated four-arm roundabout.

2.4 Facilities for Pedestrians and Cyclists

Pedestrian Access

- 2.4.1 Access to the Application Site is via a series of internal access roads from the A1085 Trunk Road which serves the industrial area. The internal road merges with the A1085 Trunk Road as a single road via a roundabout approximately 2.7km to the south east of the Application Site.
- 2.4.2 There are footways along all the adjacent roads, generally with street lighting. These provide links to the whole of the surrounding urban and residential areas. The above shows that walking distances of up to 2 miles to a place of work is not uncommon; such a distance includes the northernmost residential areas to the north of Redcar.

Cycle Access

- 2.4.3 Paragraph 2.9 of TA91/05 states: 'Nearly three quarters of all journeys are less than 5 miles in length, distances that could easily by cycled by the majority of people'.
- 2.4.4 Paragraph 2.11 goes on to state that 'Cycling is used for accessing a variety of different destinations, including educational facilities, shops and places of work, up to a range of around 5 miles'.
- 2.4.5 Paragraph 1.5.1 of LTN2/08 (Cycle Infrastructure Design) states: 'Urban networks are primarily for local journeys. In common with other modes, many utility cycle journeys are under three miles (ECF, 1998), although, for commuter journeys, a trip distance of over five miles is not uncommon'.
- 2.4.6 The A1085 Trunk Road has a combined foot/cycle way along its length, which provides cycle access to Redcar to the northeast, and the eastern sections of Middlesbrough to the south west. Much of the surrounding road network, including the A1053 towards the A66 has a network of combined foot / cycleways which can be utilised by staff and visitors at REC.





2.4.7 The above shows that cycling distances of up to 5 miles to a place of work is not uncommon; such a distance includes Redcar, and Middlesbrough urban areas and there are recognised cycle routes upon which to do so.

2.5 Bus Services

2.5.1 There are bus stops located on West Coatham Lane, approximately 150m to the east of the Application Site Access / A1085 Trunk Road junction. Services 62, 62A and 64 operate from these bus stops, routeing between Middlesbrough, Redcar and New Marske with approximately three services per direction every hour. All of these services provide further public transport services to origins and destinations further afield.

2.6 Rail Services

2.6.1 Redcar Railway Station is located approximately 3.2km from the Application Site and is accessed on foot or by cycle via the A1085 Trunk Road. It is located on the Tees Valley Line with services to Darlington, Saltburn, Bishop Auckland and Manchester Airport.

2.7 Traffic Flows

- 2.7.1 The Application Site benefits from its proximity to the Strategic Road Network. The Application Site is located within a heavily industrialised area where there are large proportions of HGVs and the highway network is designed to accommodate these. All HGVs associated with the proposed development would utilise the network of A roads within the vicinity of the Application Site which route from the wider highway network.
- 2.7.2 The Department for Transport publishes street-level traffic data for road-links on the motorway, 'A' road and minor road network in Great Britain. The latest information available covers 2018. Additionally, Highways England directly monitor the speed and flow of roads using on road sensors.
- 2.7.3 Annual Average Daily Traffic flow (AADT) data from the following locations for 2018 has been obtained from the Department for Transport:
 - A1085 Trunk Road South of Access Roundabout;
 - A1053 between A66 and A1085 Trunk Road junction;
 - A1053 between A66 and A174 Junctions;
 - A66 between A1053 and A171 Junctions;
 - A1085 Trunk Road, between junction with A1053 and junction with Normanby Road;
 - A1085 Trunk Road / Longlands Road, between junction with Normanby Road and junction with A171 Cargo Fleet Lane;
 - A174 between the A1053 and A171;
 - A1042 between the A1085 trunk Road and Waveney Road junction; and
 - A1085 Trunk Road between A1042 and Thrush Road junctions.
- 2.7.4 The observed 2018 traffic flow datasets are attached at **Annex C** and summarised in **Table 2.2.**





Table 2.2: 2018 AADT Traffic Flows

Link	2018 An Average Flows	nual Daily Traffic
	Total	HGV
A1085 Trunk Road South of Access Roundabout	17262	760
A1053 between A66 and A1085 Trunk Road junction	22379	1611
A1053 between A66 and A174 Junctions	13686	1179
A66 between A1053 and A171 Junctions	22354	2862
A1085 Trunk Road, between junction with A1053 and junction with Normanby Road	10328	94
A1085 Trunk Road / Longlands Road, between junction with Normanby Road and junction with A171 Cargo Fleet Lane	12454	144
A174 between the A1053 and A171	30428	1718
A1042 between the A1085 Trunk Road and Waveney Road junction	9347	165
A1085 Trunk Road between A1042 and Thrush Road junctions	9884	111

2.8 Road Safety

- 2.8.1 PIA data was obtained from Crashmap for the most recent five-year period for the surrounding highway network within the vicinity of the Application Site. The area for which data was obtained includes A1085 Trunk Road from the Application Site access junction, and the A1053 junction to the south where HGVs would join the strategic road network.
- 2.8.2 Crashmap updates its database after receiving the official data from the Department for Transport. This occurs annually and in 2017 and 2018 it was in late September, and it was expected that it will revert to the last-June date in future.
- 2.8.3 The most recent PIA data available runs to June 2019. Based on this, Crashmap data for the five-year period from July 2014 to June 2019 has been analysed below.
- 2.8.4 There were twelve injury accidents during the five-year period, all of which resulted in slight or serious injury. There were no fatal injury accidents. All injury accidents occurred at the locations as described below:
 - Three slight injury accidents occurred on the north section of circulatory carriageway of the Application Site Access / A1085 Trunk Road roundabout;
 - One serious injury accident occurred on the eastern section of the circulatory carriageway of the Application Site Access / A1085 Trunk Road roundabout;
 - One serious injury accident occurred on the south-eastern section of the circulatory carriageway of the Application Site Access / A1085 Trunk Road roundabout;
 - One sight injury accident occurred on A1085 Trunk Road approximately 310 metres north of the A1085 Trunk Road / British Steel access roundabout;
 - One slight injury accident occurred on the circulatory carriageway of the British Steel access / A1085 Trunk Road roundabout;





- Two serious accidents occurred approximately 50 metres south of the British Steel access / A1085 Trunk Road roundabout;
- Three slight injury accidents occurred on the circulatory carriageway of the A1085 Trunk Road / A1053 Greystone Road roundabout.
- 2.8.5 From the analysis undertaken, there are a low number of injury accidents and all occurred at different locations, which suggests there are no aspects with the local highway network that contribute to a road safety issue.

2.9 Summary

2.9.1 This section has demonstrated that REC is accessible by a range of modes of travel. PIA data demonstrates a low level of injury accidents on the surrounding roads and junctions.





3 DEVELOPMENT PROPOSALS

3.1 Introduction

- 3.1.1 The proposed development includes the following key operational components:
 - a Material Recovery Facility incorporating a Bulk Storage Facility;
 - an Energy Recovery Facility; and,
 - an Incinerator Bottom Ash Recycling Facility.
- 3.1.2 The key operational components of which the REC is comprised may operate as a single facility or as standalone projects independent of each other with some or no inter-relationship.
- 3.1.3 The ERF may receive residual waste directly from the MRF and from elsewhere. The IBA Recycling Facility is intended to receive IBA directly from the ERF but could also import IBA from elsewhere.
- 3.1.4 In addition to being well served by road, all three operational components have the potential to bring waste and materials into and out of the site using the rail and port infrastructure in the wider area.

Components of the ERF and MRF

- 3.1.5 The plant would be capable of processing up to 450,000 tonnes of residual waste each year, generating up to 49.9 MW(e) of electricity from up to approximately 450,000 tonnes per annum of waste, depending on calorific value.
- 3.1.6 The mixed waste stream would have a predicted average net calorific value¹ of 9.2 MJ/kg but could vary typically in the range 7.5-11 MJ/kg. Throughput is therefore variable, rather than constant, as the plant would be designed to operate at constant steam conditions.
- 3.1.7 The precise sources of treated waste fuel have yet to be determined as they would be subject to the securement of commercial contracts. It is, however, envisaged that the majority of the throughput would be made up of Refuse Derived Fuel (RDF) or Commercial and Industrial (C&I) waste sourced regionally and nationally. Municipal Solid Waste (MSW) would also be sourced where contracts are available but would not be relied upon.
- 3.1.8 Waste would be delivered to the plant by HGVs and weighed upon entry. The residual waste would arrive at the ERF either directly or via the adjacent MRF.
- 3.1.9 On entering the Application Site, waste vehicles accessing the ERF directly would follow the access road within the site to stop on the inbound weighbridge and be weighed. Once weighed they would go to the tipping hall to unload waste into the bunker. After leaving the tipping hall, the waste vehicles would travel via the outbound weighbridge to the site exit. The site layout has been designed to operate as a one-way system for all HGV traffic, which is segregated from staff and visitor vehicular access.
- 3.1.10 The location of the tipping hall on the Application Site allows space to accommodate waste vehicles queuing on site. An HGV queuing zone would be located in the central reserve between the site entrance and the weighbridges for vehicles entering the site, to prevent any traffic queuing on external roads. There is the capacity to accommodate seven of the largest HGVs at the

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¹ The calorific value of a waste fuel is a measure of how much energy is available per tonne of the fuel.





weighbridge without interrupting other accesses, but the site is not likely to be a nuisance in this regard in any event as it is remote from other road users.

3.1.11 Non-combustible items such as metals, glass and other inert materials pass along the grate and fall off the end as incinerator bottom ash. At the end of the grate, the hot IBA would be deposited into an ash extractor, which is filled with water ('quenching'), to reduce its temperature. The quenched bottom ash passes through vibrating fingers that are designed to separate out oversize materials (around 300mm in size). The residual bottom ash would be transferred along a conveyor system to the bottom ash reception bunker located at the adjacent IBA Facility.

IBA Facility

- 3.1.12 The IBA from the ERF process would be transferred along an inclined conveyor system to the bottom ash reception bunker where it is stored prior to being transferred to the process building.
- 3.1.13 Any imports of IBA would be by vessel over the dock. The area for the ash plant would have a capacity of about 220,000tpa, with an import target is 100,000tpa.
- 3.1.14 The IBA material would be removed from the facility by vehicles for onward delivery. The recovered ferrous and non-ferrous metals would be stored separately in containers pending their removal from the IBA Recycling Facility for recycling.
- 3.1.15 The IBA which is delivered to the IBA Recycling Facility may contain material which is not completely combusted and thus suitable for reprocessing at the energy from waste facility. Such will be separated, stored, loaded to vehicles and returned to the ERF.
- 3.1.16 All IBAA leaving the site will be sheeted. All materials will leave the site via the internal access roads and ultimately joining the A1085 Trunk Road.

3.2 Site Access

- 3.2.1 Access to the Application Site is via a series of internal access roads from the A1085 Trunk Road which serve the industrial area. The internal road merges with the A1085 Trunk Road as a single road via a roundabout approximately 2.7km to the south east of the site. The A1085 provides a strategic access to Middlesbrough and beyond to the north and south via the A19.
- 3.2.2 The Application Site would be served by a new access road which would be taken from the internal access road serving the industrial area. The access road would provide a two lane ingress and two-lane egress incorporating an 'In' and 'Out' weighbridge with a Gatehouse located to the west of the access road. The Application Site is broadly rectangular in shape with the exception of the access road and the northern part of the site, which is defined by the existing shape of the coastline. The three operational components split the Application Site into three distinct areas: the MRF to the west, the ERF occupying the area to the east, and the IBA Recycling Facility to the north.
- 3.2.3 The Application Site layout provides one-way circulation around the site with direct access to each of the distinct operational components. Parking facilities would be provided at the MRF and ERF facility.

3.3 Hours of Operation

- 3.3.1 The REC would operate 24 hours a day, 7 days a week throughout the year except during shutdown periods for maintenance and repair.
- 3.3.2 It is assumed that each line would achieve approximately 91% availability as a result of planned and unplanned downtime. A two-line plant provides operational flexibility during periods of





maintenance, enabling one line to be shut down whilst the second continues to operate. Planned maintenance activities would be for approximately three weeks per line per year.

3.3.3 The facility would run 24hrs per day, but it is anticipated that the majority of deliveries will be between 08:00 – 18:00.

Staff

3.3.4 The REC would employ up to 100 full time equivalent employees comprising operation and maintenance staff, clerical and administrative staff and plant management. The ERF plant operations and maintenance staff would be employed within up to five shift teams. In addition, approximately 100 additional contractors will be temporarily employed during the planned annual shutdowns.

3.4 Car and Cycle Parking

- 3.4.1 The Application Site layout provides one-way circulation around the site with direct access to each of the distinct operational components. Parking facilities would be provided at the MRF and ERF facility.
- 3.4.2 Traffic access and movement around the Application Site has been designed to ensure efficiency and to maximise vehicle and pedestrian safety. All vehicles delivering waste, IBA, process reagents or removing process residues or products, along with maintenance vehicles, would follow the designated internal access routes and be suitably distanced from staff parking areas.
- 3.4.3 There are no parking standards for these proposals; therefore, the number of parking spaces to be provided has been based upon staff numbers and operator experience. A separate car park with 41 car parking spaces would be provided in front of the MRF facility, giving pedestrian access to the MRF office building. 50 car parking spaces are provided to the side of the ERF facility giving direct pedestrian access to the Office element incorporated into the ERF building. Cycle parking would also be provided for both staff and visitors compromising of 12 cycle spaces, with more to be made available on demand.





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4 TRANSPORT RELATED POLICIES

4.1 National Policy Guidance

National Planning Framework (NPPF)

- 4.1.1 National policy in relation to the transport planning of developments is set out in the National Planning Policy Framework (NPPF) (Ministry of Housing, Communities and Local Government, 2019). Section 9 'Providing Sustainable Transport Considering Development Proposals' states the following:
- 4.1.2 Paragraph 108 states that:

"In assessing site that may be allocated for development in plans, or specific applications for development, it should be ensured that:

- a) Appropriate opportunities to promote sustainable transport modes can be or have been
 taken up, given the type of development and its location;
- b) Safe and suitable access to the site can be achieved for all users; and
- c) Any significant impacts from the development on the transport network (in terms of capacity and congestion), or on highway safety, can be cost effectively mitigated to an acceptable degree."
- 4.1.3 Paragraph 109 states that:

"Development should only be prevented or refused on highway grounds if there would be an unacceptable impact on highway safety or residual cumulative impacts on the road network would be severe."

4.1.4 Paragraph 111 states that:

"All developments that will generate significant amounts of movement should be required to provide a travel plan, and the application should be supported by a transport statement of transport assessment so that the likely impacts of the proposal can be assessed."

4.1.5 With regard to parking, Paragraph 105 of the NPPF states that:

"If setting local parking standards for residential and non-residential development, policies should take into account:

- The accessibility of the development;
- The type, mix and use of the development;
- The availability of and opportunities for Public Transport;
- Low car ownership levels; and
- the need to ensure an adequate provision of spaces for charging plug-in and other ultra-low emission vehicles."
- 4.1.6 Paragraph 106 states that:





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"Maximum parking standards for residential and non-residential development should only be set where there is a clear and compelling justification that they are necessary for managing the local road network, or for optimising the density of development in city and town centres and other locations that are well served by public transport (in accordance with Chapter 11 of this Framework). In town centres, local authorities should seek to improve the quality of parking so that it is convenient, safe and secure, alongside measures to promote accessibility for pedestrians and cyclists."

Planning Practice Guidance (PPG) 'Travel Plans, Transport Assessments and Statements in Decision-Taking' (March 2014)

- 4.1.7 Planning Practice Guidance Travel Plans, Transport Assessments and Statements in Decision-Taking provides a concise report on the use and importance of Transport Assessments / Statements and Travel Plans.
- 4.1.8 The guidance states that Transport Assessments / Statements and Travel Plans can positively contribute to:
 - "encouraging sustainable travel;
 - lessening traffic generation and its detrimental impacts;
 - reducing carbon emissions and climate impacts;
 - creating accessible, connected, inclusive communities;
 - improving health outcomes and quality of life;
 - improving road safety; and
 - reducing the need for new development to increase existing road capacity or provide new roads."
- 4.1.9 The guidance states that Transport Assessments / Statements and Travel Plans should be proportionate to the size and scope of the proposed development, be tailored to particular local circumstances and be established at the earliest practicable possible stage of a development proposal.
- 4.1.10 With regard to parking, the guidance moves away from the use of maximum parking guidance and Paragraph 008 states that:

"Maximum parking standards can lead to poor quality development and congested streets; local planning authorities should seek to ensure parking provision is appropriate to the needs of the development and not reduced below a level that could be considered reasonable."

4.2 Local Planning Policy and Guidance

Redcar and Cleveland Local Plan (adopted May 2018)

- 4.2.1 The Redcar & Cleveland Local Plan sets out the vision and overall development strategy for the Council's area and how it will be achieved for the period until 2032.
- 4.2.2 The local plan sets out that Redcar and Cleveland has faced significant challenges such as the decline in its traditional employment base and the cessation of steel making in Redcar, a reducing population and increasing urban disadvantage, and seeks to provide the policy framework to meet these challenges and to deliver sustainable development across the borough.
- 4.2.3 Paragraph 1.109 of the Local Plan states the following:





"We need to ensure new and existing development is serviced by well-planned and phased utility infrastructure: energy, water and sewerage. As our communities and economy grow, it is vital the we manage growth by planning for infrastructure for the longer term, reducing demand on resources and services. These are exacerbated by an ageing water and sewage infrastructure system, together with the urgent need to reduce the amount of waste going to landfill and the unavoidable impacts of climate change including increased risks from flooding. We, therefore, need to take the opportunity to reconsider how we manage the planning and provision of critical infrastructure."

- 4.2.4 Policy SD 6 of the Local Plan relates to Renewable and Low carbon Energy. Paragraph 2.44 of the Local Plan states that the policy covers the full range of renewable energy schemes, including wind, solar, tidal, district heating, biomass and energy from waste.
- 4.2.5 Policy SD 6 states that renewable and low carbon energy schemes will be supported and encouraged, and will be approved where their impact is, or can be made, acceptable. In determining applications for renewable and low carbon energy, and associated infrastructure, the following issues will be considered: impact on residential amenity, environmental impacts, scale of proposal; local topography and siting of proposal to minimise harm, including through reasonable mitigation, operational and other relevant constraints; and cumulative impacts of proposals.
- 4.2.6 The Council has prepared an Infrastructure Delivery Plan (IDP) to sit alongside the Local Plan.

 The IDP outlines some of the infrastructure (such as transport, schools, health services and open space) that is needed to help new communities prosper.

Redcar and Cleveland Infrastructure Delivery Plan (adopted November 2016)

- 4.2.7 The Redcar and Cleveland Infrastructure Delivery Plan was prepared to support the Redcar and Cleveland Local Plan. The Local Plan sets out how the borough will develop over the period to 2032, identifying where homes, employment, services and infrastructure will be delivered and the type of places and environments that will be created.
- 4.2.8 The delivery plan sets out that Redcar and Cleveland benefits from good highways provision catering for heavy vehicles and industrial uses with good linkages between the South Tees, Greater Eston and Redcar and the strategic highway network. The A174 and the A66 link the main urban areas of the borough through to the A19(T) to the west.
- 4.2.9 The Delivery Plan highlights a number of congestion hotspots which are to be utilised by the proposed REC:
 - A19 Tees Viaduct and Stockton Road Interchange with A66;
 - A66 particularly through Middlesbrough and Stockton; and
 - A174/A1053 Greystone Road network, the key route to and from Teesport and the industrial and petrochemical centres.
- 4.2.10 However, several targeted local highway network improvements have already been delivered as the first stage of tackling these challenges. These include:
 - The £13.5m North Middlesbrough Accessibility Scheme, comprising a number of highway improvements to the A66; and
 - The roundabout interchange at the A19(T)/A174(T) has been signalised on the three trunk road approaches as the first stage of the Teesport Access Improvements scheme.
- 4.2.11 The Delivery Plan also states the following:





"Prior to its inclusion within the Local Growth Fund process, TVU developed a Local Major Transport Scheme Prioritisation Local Major Transport Scheme Prioritisation, Tees Valley Unlimited, July 2013 list of schemes for funding from 2015, based on schemes arising from the AAP. This provided the basis for the immediate key projects outlined in the 2014 Strategic Economic Plan (SEP). The development of the SEP and subsequent work has identified additional schemes, which TVU will be seeking funding for. These include:

- To improve linkages between the South Tees Industrial area and the local highway network (particularly the A66 and A1085) which links to the strategic highway network of the A19. This includes junction improvements on the A66 which have recently been completed;
- A proposed east to west extension to Dockside Road, that will particularly provide better access to the Port / riverside and open the surrounding land up to development; and
- Improvements to Greystones roundabout to improve strategic highway capacity."
- 4.2.12 The proposed REC will utilise the existing good highways provision already catering for heavy vehicles, with good linkages between the South Tees, Redcar and the strategic highway network, as set out in the Redcar and Cleveland Infrastructure Delivery Plan.

Redcar and Cleveland Local Transport Plan 2011-2021 (adopted March 2011)

- 4.2.13 The Council's third round Local Transport Plan (LTP3) sets out how the Council will seek to improve transport services and facilities in the coming years in order to address local issues and the key national aims of:
 - Supporting Economic Growth;
 - Reducing Carbon Emissions;
 - Promoting Equality of Opportunity;
 - Contributing to Better Safety, Security and Health; and,
 - Improving Quality of Life and a Healthy Natural Environment.
- 4.2.14 The LDP states that it is anticipated that there will be significant further investment, particularly in the chemical and energy sectors, both at Wilton and in the South Tees area:

"Further expansion of facilities at Teesport will create local jobs in the borough, taking advantage of the good labour force that is readily available in Redcar & Cleveland. Such developments will also reduce the distance goods are transported around the country compared with the use of Southern ports, although it is recognised that local transport issues on the approaches to the Port will need to be managed in partnership with the Highways Agency. Major improvements to junctions on the A174(T) and A1053(T) trunk roads, funded by PD Teesport to accommodate their developments, are currently being implemented and will be complete by the end of 2010.

All of the above proposals will create new jobs in deprived areas and help reverse decline in these areas, bringing about an improvement to quality of life. However, they will also generate further transport implications that need to be carefully planned for in conjunction with partners in industry and the Highways Agency, in terms of goods vehicle movements and access to new jobs. They could create pressures for vehicle movements on the strategic road network, particularly at roundabouts on and between the A66, A1053(T), A174(T) and A19(T). These potential pressures will need to be addressed to enable full economic advantage to be taken of the regeneration, but in a manner that does not undermine strategies for the growth of sustainable transport use."





4.2.15 This TA and associated ES Chapter address the transport implications as a result of REC.





5 FUTURE YEAR BASELINE TRAFFIC FLOWS

Future Assessment Year

- 5.1.1 The timing of the project would be dependent on securing planning permission and the discharge of planning conditions. The indicative construction programme envisages approximately 32 months from start on site to end of commissioning.
- 5.1.2 Assuming that planning permission is granted for the facility in winter 2020, the following development timescales are anticipated:
 - Notice to Proceed to Contractor: 1st Quarter 2021.
 - Clearance and Demolition: 2nd Quarter 2021.
 - Commencement of Construction: 3rd Quarter 2021.
 - Commissioning: 1st Quarter 2024.
 - Commercial Operation: 2nd Quarter 2024.
- 5.1.3 Discussions with Redcar and Cleveland Borough Council have identified a number of emerging sites in the local area. As the first year of operation is anticipated to be 2024, the future assessment year of 2024 has been adopted. Based upon the assessments set out below, if a different future year was chosen, after the year of opening, then the conclusions would remain the same, hence an assessment year of 2024 is considered suitable.
- 5.1.4 The future year baseline scenario of 2024 has been created by applying traffic growth rates to the observed traffic flows and then adding in the traffic flows of 'committed developments', i.e. developments that have planning consent but are not yet generating traffic on the network.
- 5.1.5 Before adding in any committed development traffic flows, growth rates have been applied to the observed traffic flows set out in Table 2.2 using the DfT software TEMPRO (version 7.2) to create base 2024 traffic flows. The TEMPRO software presents the output of the DfT's National Trip End Model which forms part of the National Transport Model (NTM). The DfT's Webtag guidance Unit 3.15.2 advises the use of NTM in preference to the National Road Traffic Forecasts (NRTF) as the NTM data is based on a more up-to-date model.
- 5.1.6 It should be noted that growth rates include allowances for background traffic growth as well as development growth. In some instances, the application of growth rates and the addition of traffic flows from committed developments and cumulative developments (i.e. emerging developments that do not yet have planning consent) can result in double counting of traffic flows.
- 5.1.7 In this instance, given that a 2024 baseline year is being developed, any such effect of double counting is likely to be low and so no adjustments to the growth rates have been made. The TEMPRO growth rates obtained are listed in Table 5.1.

Table 5.1: Growth Rates

Road Type	Growth Rate 2018 - 2020	Growth Rate 2018-2024
Urban Principal Road	1.027941	1.052596

5.1.8 The resultant 2024 growthed traffic flows are set out in Table 5.2.





Table 5.2: 2024 Growthed Traffic Flows

Link	2024 An Average Flows	nual Daily Traffic
	Total	HGV
A1085 Trunk Road South of Access Roundabout	18170	800
A1053 between A66 and A1085 Trunk Road junction	23556	1696
A1053 between A66 and A174 Junctions	14406	1241
A66 between A1053 and A171 Junctions	23530	3013
A1085 Trunk Road, between junction with A1053 and junction with Normanby Road	10871	99
A1085 Trunk Road / Longlands Road, between junction with Normanby Road and junction with A171 Cargo Fleet Lane	13109	152
A174 between the A1053 and A171	32028	1808
A1042 between the A1085 Trunk Road and Waveney Road junction	9839	174
A1085 Trunk Road between A1042 and Thrush Road junctions	10404	117

Committed and Cumulative Developments

- 5.1.9 As part of the assessments, committed development sites and cumulative development sites are also considered.
- 5.1.10 Developments that already have planning consent have already been through that process and have identified any highway and transport improvements that may or may not be necessary to mitigate their impact. There is no further opportunity for these developments to provide additional highway or transport mitigation and so these developments and their highway and transport schemes are treated as committed within any future year scenarios.
- 5.1.11 For this reason, those developments (traffic flows and their highway and transport mitigation schemes) form part of a future transport baseline scenario for any other developments that follow. In doing that, the impact of development proposals that follow consented developments is able to be determined in the knowledge of what has already been consented in transport and highways terms along with the need for any additional highway and transport improvements that may be necessary.
- 5.1.12 Other developments that emerge at the same time are treated together and are cumulatively assessed against the baseline scenario described above to determine their cumulative impact and their cumulative highway and transport mitigation requirements (if required).
- 5.1.13 A detailed assessment has been undertaken of all planning applications in the surrounding area and allocated sites. From a transport perspective, their status (i.e. consented, awaiting determination or allocated), traffic generation, their study area and the study area of this TA have all been analysed to determine how they have been considered within this TA.
- 5.1.14 A full list along with comments are attached at **Annex D**. In summary, there are four sites that have planning consent that would generate a significant level of traffic onto the study area of this TA that need to be considered as a committed development and form part of the future year baseline scenario. These sites are set out in **Table 5.3** below.





Table 5.3: Committed Developments

Site No.	Site Name	Application number	Status	Submitted / Decision Date	Status
2	Kirkleatham Lane	R/2016/0663/OOM	The construction of the development is proposed to start in 2020.	Granted 25/05/17	TA assumed base year of 2026, assume half of dwellings constructed by end of 2023 based on construction starting in 2020.
4	Teesside Combined Cycle Power Plant (CCPP)	R/2018/0364/NID	Predicted peak construction year of 2021, operational year of 2023	DCO made 05/04/19, granted	Not built, to be operational in 2023.
6	Peak African Minerals Ltd.	R/2017/0876/FFM	Application states that the refinery would need to be ready to receive the ore concentrate towards the end of 2019 / early 2020.	Granted 16/01/18	Not built but could be fully operational by 2024.
7	York Potash Port and Materials Handling Facilities	TR03002	DCO made 20/07/16	DCO granted on 20/07/2016	Not built, construction period is approximately 29 months in a phased program and could be operational by 2024.

5.1.15 The traffic flows predicted to be generated by these committed developments have been taken from their respective Transport Assessments that supported their planning applications. The committed development traffic flows are attached at **Annex E**.

2024 Baseline Traffic Flows

5.1.16 Traffic flows on the local highway network are the observed traffic flows with the addition of traffic growth and committed developments. The resultant 2024 baseline traffic flows are set out in **Annex F** and a summary is provided in **Table 5.4**.

Table 5.4: 2024 Baseline Traffic Flows

Link	Annual A	Average affic Flows
	Total	HGV
A1085 Trunk Road South of Access Roundabout	18622	843
A1053 between A66 and A1085 Trunk Road junction	24194	1798
A1053 between A66 and A174 Junctions	14785	1338
A66 between A1053 and A171 Junctions	24143	3090
A1085 Trunk Road, between junction with A1053 and junction with Normanby Road	10910	102
A1085 Trunk Road / Longlands Road, between junction with Normanby Road and junction with A171 Cargo Fleet Lane	13132	155





Link	Annual A Daily Tra	verage ffic Flows
A174 between the A1053 and A171	32502	1837
A1042 between the A1085 Trunk Road and Waveney Road junction	10097	177
A1085 Trunk Road between A1042 and Thrush Road junctions	10662	120





6 TRIP GENERATION, MODE SHARE AND ASSIGNMENT

6.1 HGV Movements

6.1.1 Estimates of the potential HGV movements from waste arisings are set out in Table 6.1.

Source	Annual Tonnage	Vehicle Type / Load Size	Daily HGV Movements
ERF Waste Imports	/ Exports		
Bulked Waste (75%)	337,500	20	61
Direct Waste (25%)	112,500	6	68
Total	450,000	-	129
MRF Waste Imports			
Bulked Waste (75%)	150,000	20	27
Direct Waste (25%)	50,000	6	30
Total	200,000	-	57
MRF Waste Exports			
Bulked	200,000	20	36
Total			222

6.1.2 In addition, to waste arisings, HGVs will also be generated by consumables and exports as set out in Table 6.2.

Table 6.2: Consumables / Exports HGV Trip Generation

Source	Annual Tonnage	Frequency of vehicle movements	Daily HGV Movements
IBA	105000	Daily	18
APCR	20000	Daily	4
Lime	5040	Daily	1*
Carbon	840	Weekly	1*
Fuel Oils	168,000 Litres	Monthly	1*
Total			25

Note: Summation differences due to figures rounded to the nearest whole number

6.1.3 When the development is operational, assuming 75% of waste is bulked via a Waste Transfer Station (WTS) and 25% is delivered to the site directly by RCVs, initial estimations suggest there would be 247 two-way HGV movements per day.

6.2 Staff Movements

6.2.1 The REC would employ up to 100 full time equivalent employees comprising operation and maintenance staff, clerical and administrative staff and plant management. The ERF plant operations and maintenance staff would be employed within up to five shift teams. In addition, approximately 100 additional contractors will be temporarily employed during the planned annual shutdowns.





- Although there would be up to 100 new staff on site, there would be shift working. As a result, not all would be on site on the same day. It is assumed that there would be 5 admin staff on site working 09:00 to 17:00 each day. The remaining 95 staff would work across the four remaining shifts, consisting of two 12-hour shift teams each of 24 staff (24 staff working 07:00 to 19:00 and 24 staff working 19:00 to 07:00). The shift workers would all arrive during the hour before their shift and depart during the hour after.
- To estimate the likely mode of transport that staff would use to travel to and from the Application Site, the 2011 Census Journey to Work data has been analysed for the local area. The Application Site is located within the northern edge of Middle Layer Super Output Area (MSOA) E02002517: Redcar and Cleveland 003.
- 6.2.4 Details of these areas including their coverage are attached at **Annex G** and a summary of their mode shares for each are set out in **Table 6.3.**

Table 6.3: Staff Mode Share

Method of travel to work	MSOA E02002517 : Redcar and Cleveland 003
Driving a car or van	81.8%
Passenger in a car or van	8.0%
Public Transport	3.0%
Motorcycle, Scooter or Moped	0.8%
Taxi	0.4%
Bicycle	2.8%
On foot	3.0%
Other	0.2%
Total	100%

Note: Summation differences due to figures rounded to the nearest whole number

- 6.2.5 The Application Site access road is hard surfaced and is some 2.7km long between the site and the highway. Although the census data demonstrates that there is some scope for staff to travel via sustainable means to the site, the length of the internal access road from the A1085 Trunk Road to the Application Site will likely reduce the number of staff walking and using public transport to route to site.
- 6.2.6 To form a robust assessment, it is assumed that each staff member would travel to the Application Site via single occupancy vehicle; however, the census data demonstrates that there is potential for staff to travel via sustainable means to the site.
- 6.2.7 The temporal distribution of staff is set out in **Table 6.4** below.

Table 6.4: Temporal Distribution of Staff Car Movements

Hour Begin	Staff Car Arrivals	Staff Car Departures	Two-way Staff Car Movements
00:00	0	0	0
01:00	0	0	0
02:00	0	0	0
03:00	0	0	0
04:00	0	0	0
05:00	0	0	0







Hour Begin	Staff Car Arrivals	Staff Car Departures	Two-way Staff Car Movements
06:00	24	0	24
07:00	0	24	24
08:00	5	0	5
09:00	0	0	0
10:00	0	0	0
11:00	0	0	0
12:00	0	0	0
13:00	0	0	0
14:00	0	0	0
15:00	0	0	0
16:00	0	0	0
17:00	0	5	5
18:00	24	0	24
19:00	0	24	24
20:00	0	0	0
21:00	0	0	0
22:00	0	0	0
23:00	0	0	0
Total	53*	53*	106*

Note: Summation differences due to figures rounded to the nearest whole number

6.3 Trip Distribution and Assignment

HGVs

- 6.3.1 In total, REC would generate approximately 247 two-way HGV movements. It is expected that the majority of waste HGVs would route to and from the A1053 Greystone Road and A66. Some HGVs would route to / from the north along A1085 Corporation Road or to / from the A1042 Kirkleatham Lane if there was a local collection from that area.
- REC would be a regional facility and it is envisaged that Teesside and the North East would form the waste arisings. To estimate the likely routeing of HGVs, census population data has been used as a proxy for the local collection areas and has been analysed. This includes deriving census data from MSOAs in population centres such as Redcar, Newcastle upon Tyne, Sunderland, Scarborough, Darlington. The census data is within **Annex H** and REC HGV traffic flows are attached at **Annex I**.

Staff

6.3.3 Census 2011 Journey to Work data has formed the basis of the assumptions of staff vehicle routeing. An analysis of the MSOA E02002517: Redcar and Cleveland 003 in terms of mode share is set out above and the same MSOA has been used to estimate the distribution of staff, as attached at **Annex J** and as summarised in **Table 6.5.**





Table 6.5: Staff Distribution

	A1085 Trunk Road North	A1042	A174 North	A174 South	A66	Longlands Road / A1085 Trunk Road
Distribution	5.4%	31.7%	1.7%	26.1%	20.2%	14.9%

Note: Summation differences due to figures rounded to the nearest whole number

6.3.4 Staff movements have been assigned onto the network in accordance with the above distribution and the resultant movements along links throughout the day are attached at **Annex K**.

6.4 Development Traffic Flow Scenarios

6.4.1 The REC Development flows are attached at **Annex L**. The resultant 2024 baseline plus REC traffic flows along links are attached at **Annex M** and summarised in Table 6.6.

Table 6.6: 2024 Baseline Plus REC Traffic Flows

Link	Annual Average Daily Traffic Flows	
	Total	HGV
A1085 Trunk Road South of Access Roundabout	18928	1083
A1053 between A66 and A1085 Trunk Road junction	24395	1978
A1053 between A66 and A174 Junctions	14866	1390
A66 between A1053 and A171 Junctions	24344	3270
A1085 Trunk Road, between junction with A1053 and junction with Normanby Road	10933	108
A1085 Trunk Road / Longlands Road, between junction with Normanby Road and junction with A171 Cargo Fleet Lane	13154	161
A174 between the A1053 and A171	32581	1888
A1042 between the A1085 Trunk Road and Waveney Road junction	10134	181
A1085 Trunk Road between A1042 and Thrush Road junctions	10672	124





7 TRANSPORT ASSESSMENT

7.1 Introduction

- 7.1.1 To consider the effects of the traffic generated by the construction of the proposed development, an assessment of traffic flow increases has been undertaken against the 2024 baseline traffic flows.
- 7.1.2 In order to obtain estimations of peak hour traffic flows, 2018 traffic flow data was obtained from Highways England for the A1053 between the A1085 Trunk Road and A174 junctions. The data was obtained from 1st January 2018 to 31st December 2018 to correspond with the 2018 AADT data obtained from all links which was sourced from the DfT. The data provided breaks down the average traffic flows hour-by-hour, which was then used to calculate the percentage of traffic during the peak hours.

7.2 Link Assessment

Development Traffic Link Assessment

7.2.1 The REC operational traffic flows have been assessed against the 2024 baseline traffic flows as attached at **Annex N** and as summarised in **Table 7.1.**

Table 7.1: Summary of REC Traffic Increases

	2024 Baseline	Development Traffic	% Impact
A1085 Trunk Road South of Access Rou	ndabout		
AM peak hour	1500	27	1.81%
PM peak hour	1535	27	1.77%
12 hr (7am-7pm)	15310	276	1.80%
24 hr	18622	306	1.64%
A1053 between A66 and A1085 Trunk Ro	ad junction		
AM peak hour	1948	19	0.98%
PM peak hour	1995	19	0.95%
12 hr (7am-7pm)	19892	192	0.96%
24 hr	24194	201	0.83%
A1053 between A174 and A1085 Junction	ns		
AM peak hour	1191	7	0.55%
PM peak hour	1219	7	0.54%
12 hr (7am-7pm)	12156	68	0.56%
24 hr	14785	81	0.55%
A66 between A1053 and A171 Junctions			
AM peak hour	1944	19	0.98%
PM peak hour	1991	19	0.96%
12 hr (7am-7pm)	19849	192	0.97%
24 hr	24143	201	0.83%
A1085 Trunk Road, between junction wit	h A1053 and junc	tion with Normanb	y Road
AM peak hour	879	1	0.16%





	2024 Baseline	Development Traffic	% Impact		
PM peak hour	900	1	0.16%		
12 hr (7am-7pm)	8970	15	0.17%		
24 hr	10910	22	0.20%		
A1085 Trunk Road / Longlands Road, be junction with A171 Cargo Fleet Lane	etween junction wi	th Normanby Road	l and		
AM peak hour	1057	1	0.13%		
PM peak hour	1083	1	0.13%		
12 hr (7am-7pm)	10797	15	0.14%		
24 hr	13132	22	0.17%		
A174 between the A1053 and A171					
AM peak hour	2617	6	0.24%		
PM peak hour	2680	6	0.24%		
12 hr (7am-7pm)	26723	66	0.25%		
24 hr	32502	78	0.24%		
A1042 between the A1085 trunk Road ar	nd Waveney Road	junction			
AM peak hour	813	2	0.25%		
PM peak hour	833	2	0.24%		
12 hr (7am-7pm)	8301	22	0.27%		
24 hr	10097	37	0.37%		
A1085 Trunk Road between A1042 and Thrush Road junctions					
AM peak hour	859	1	0.09%		
PM peak hour	879	1	0.08%		
12 hr (7am-7pm)	8766	8	0.09%		
24 hr	10662	10	0.10%		

7.2.2 As can be seen, the AADT percentage increases in traffic along the highway as a result of REC are in the order of less than 1% and up to a maximum of 1.64%. These increases are negligible and are not considered to result in a severe impact upon the highway network.

Cumulative Traffic Link Assessment

7.2.3 There is one site that has a live planning application awaiting determination and which will be a cumulative development, as set out in **Table 7.2**. This does not form part of the future year baseline scenario but is included as a cumulative assessment.

Table 7.2: Sites with a Live Planning Application Considered as a Cumulative Development

Source	Type of Application	Location	Description	Planning Reference	Status
Redcar and Cleveland Borough Council	Energy	Grangetown Prairie Energy Recovery Facility	Outline application for the construction of an energy recovery facility (REF) and associated development.	R/2019/0767/OOM	Application submitted 19/12/19





7.2.4 The cumulative and REC traffic flows have been assessed against the 2024 baseline traffic flows attached at **Annex O**. The impact assessment is attached at **Annex P** and summarised in **Table 7.3**.

Table 7.3: Summary of Cumulative Development Traffic Increases

A1085 Trunk Road South of Access Roundabout AM peak hour 1500 27 1.81% PM peak hour 1535 27 1.77% 12 hr (7am-7pm) 15310 276 1.80% 24 hr 18622 306 1.64% A1053 between A66 and A1085 Trunk Road junction AM peak hour 1948 23 1.21% PM peak hour 1995 19 0.95% 12 hr (7am-7pm) 19892 269 1.35% 24 hr 24194 284 1.17% A1053 between A174 and A1085 Junctions AM peak hour 1911 11 0.93% PM peak hour 1911 11 0.93% PM peak hour 1219 7 0.54% 12 hr (7am-7pm) 12156 90 0.74% 24 hr 14785 104 0.70% A66 between A1053 and A171 Junctions AM peak hour 1944 37 1.90% PM peak hour 1991 19 0.96% 12 hr (7am-7pm) 19849 501 2.52% 24 hr 24143 532 2.20% A1085 Trunk Road, between junction with A1053 and junction with Normanby Road AM peak hour 879 1 0.16% PM peak hour 900 1 0.16% PM peak hour 900 1 0.16% PM peak hour 900 1 0.16% A1085 Trunk Road, between junction with A1053 and junction with Normanby Road AM peak hour 900 1 0.16% PM peak hour 10910 22 0.20% A1085 Trunk Road / Longlands Road, between junction with Normanby Road and junction with A171 Cargo Fleet Lane AM peak hour 1057 1 0.13% PM peak hour 1057 1 0.13% A1085 Trunk Road / Longlands Road, between junction with Normanby Road and junction with A171 Cargo Fleet Lane AM peak hour 1057 1 0.13% PM peak hour 2617 6 0.24% PM peak hour 2617 6 0.24		2024 Baseline	Cumulative Traffic	% Impact
PM peak hour 1535 27 1.77% 12 hr (7am-7pm) 15310 276 1.80% 24 hr 18622 306 1.64% A1053 between A66 and A1085 Trunk Road junction AM peak hour 1948 23 1.21% PM peak hour 1995 19 0.95% 24 hr 24194 284 1.17% A1053 between A174 and A1085 Junctions AM peak hour 1191 11 0.93% PM peak hour 1219 7 0.54% 12 hr (7am-7pm) 12156 90 0.74% 24 hr 14785 104 0.70% A66 between A1053 and A171 Junctions AM peak hour 1944 37 1.90% AM peak hour 1991 19 0.96% 12 hr (7am-7pm) 19849 501 2.52% 24 hr 24143 532 2.20% A1085 Trunk Road, between junction with A1053 and junction with Normanby Road AM peak hour 879 1 0.16% PM peak hour 900 1	A1085 Trunk Road South of Access Roa	undabout		
12 hr (7am-7pm) 15310 276 1.80% 24 hr 18622 306 1.64% A1053 between A66 and A1085 Trunk Road junction AM peak hour 1948 23 1.21% PM peak hour 1995 19 0.95% 12 hr (7am-7pm) 19892 269 1.35% 24 hr 24194 284 1.17% A1053 between A174 and A1085 Junctions AM peak hour 1191 11 0.93% PM peak hour 1219 7 0.54% 12 hr (7am-7pm) 12156 90 0.74% 24 hr 14785 104 0.70% A66 between A1053 and A171 Junctions AM peak hour 1991 19 0.96% 24 hr 1944 37 1.90% PM peak hour 1991 19 0.96% 12 hr (7am-7pm) 19849 501 2.52% 24 hr 24143 532 2.20% A1085 Trunk Road, between junction with A1053 and junction with Normanby Road A1054 12 hr (7am-7pm) 15	AM peak hour	1500	27	1.81%
24 hr 18622 306 1.64% A1053 between A66 and A1085 Trunk Road junction AM peak hour 1948 23 1.21% PM peak hour 1995 19 0.95% 12 hr (7am-7pm) 19892 269 1.35% 24 hr 24194 284 1.17% A1053 between A174 and A1085 Junctions AM peak hour 1191 11 0.93% PM peak hour 1219 7 0.54% 12 hr (7am-7pm) 12156 90 0.74% 24 hr 14785 104 0.70% A66 between A1053 and A171 Junctions AM peak hour 1944 37 1.90% PM peak hour 1991 19 0.96% 12 hr (7am-7pm) 19849 501 2.52% 24 hr 24143 532 2.20% A1085 Trunk Road, between junction with A1053 and junction with Normanby Road AM peak hour 879 1 0.16% PM peak hour 900 1 0.16% PM peak hour 10910 22 0.20% A1085 Trunk Road / Longlands Road, between junction with Normanby Road and junction with A171 Cargo Fleet Lane AM peak hour 1083 1 0.13% PM peak hour 1083 1 <td>PM peak hour</td> <td>1535</td> <td>27</td> <td>1.77%</td>	PM peak hour	1535	27	1.77%
A1053 between A66 and A1085 Trunk Road junction AM peak hour 1948 23 1.21% PM peak hour 1995 19 0.95% 12 hr (7am-7pm) 19892 269 1.35% 24 hr 24194 284 1.17% A1053 between A174 and A1085 Junctions AM peak hour 1191 11 0.93% PM peak hour 1219 7 0.54% 12 hr (7am-7pm) 12156 90 0.74% 24 hr 14785 104 0.70% A66 between A1053 and A171 Junctions AM peak hour 1944 37 1.90% PM peak hour 1991 19 0.96% 12 hr (7am-7pm) 19849 501 2.52% 24 hr 24143 532 2.20% A1085 Trunk Road, between junction with A1053 and junction with Normanby Road AM peak hour 879 1 0.16% PM peak hour 900 1 0.16% PM peak hour 900 1 0.16% PM peak hour 900 1 0.16% PM peak hour 10910 22 0.20% A1085 Trunk Road / Longlands Road, between junction with Normanby Road and junction with A171 Cargo Fleet Lane AM peak hour 1083 1 0.13% PM peak hour 2680 6 0.24% PM peak hour 2680 6 0.24% PM peak hour 2680 6 0.25% 24 hr 32502 78 0.24% A1042 between the A1085 trunk Road and Waveney Road junction	12 hr (7am-7pm)	15310	276	1.80%
AM peak hour 1948 23 1,21% PM peak hour 1995 19 0,95% 12 hr (7am-7pm) 19892 269 1,35% 24 hr 24194 284 1,17% A1053 between A174 and A1085 Junctions AM peak hour 1191 11 0,93% PM peak hour 1219 7 0,54% 12 hr (7am-7pm) 12156 90 0,74% 24 hr 14785 104 0,70% A66 between A1053 and A171 Junctions AM peak hour 1944 37 1,90% PM peak hour 1991 19 0,96% 12 hr (7am-7pm) 19849 501 2,52% 24 hr 24143 532 2,20% A1085 Trunk Road, between junction with A1053 and junction with Normanby Road AM peak hour 879 1 0,16% PM peak hour 900 1 0,16% PM peak hour 900 1 0,16% PM peak hour 10910 22 0,20% A1085 Trunk Road / Longlands Road, between junction with Normanby Road AM peak hour 900 1 0,16% PM peak hour 10910 22 0,20% A1085 Trunk Road / Longlands Road, between junction with Normanby Road and junction with A171 Cargo Fleet Lane AM peak hour 1057 1 0,13% PM peak hour 1067 1 0,13% PM peak hour 1083 1 0,13% PM peak hour 2680 6 0,24% PM peak hour 2680 6 0,25% 24 hr 3,2502 78 0,24% A1042 between the A1085 trunk Road and Waveney Road junction	24 hr	18622	306	1.64%
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AM peak hour 879 1 0.16% PM peak hour 900 1 0.16% 12 hr (7am-7pm) 8970 15 0.17% 24 hr 10910 22 0.20% A1085 Trunk Road / Longlands Road, between junction with Normanby Road and junction with A171 Cargo Fleet Lane AM peak hour 1057 1 0.13% PM peak hour 1083 1 0.13% 12 hr (7am-7pm) 10797 15 0.14% 24 hr 13132 22 0.17% A174 between the A1053 and A171 AM peak hour 2617 6 0.24% PM peak hour 2680 6 0.24% 12 hr (7am-7pm) 26723 66 0.25% 24 hr 32502 78 0.24% A1042 between the A1085 trunk Road and Waveney Road junction	24 hr	24143	532	2.20%
PM peak hour 900 1 0.16% 12 hr (7am-7pm) 8970 15 0.17% 24 hr 10910 22 0.20% A1085 Trunk Road / Longlands Road, between junction with Normanby Road and junction with A171 Cargo Fleet Lane AM peak hour 1057 1 0.13% PM peak hour 1083 1 0.13% 12 hr (7am-7pm) 10797 15 0.14% 24 hr 13132 22 0.17% A174 between the A1053 and A171 AM peak hour 2617 6 0.24% PM peak hour 2680 6 0.24% PM peak hour 26723 66 0.25% 24 hr 32502 78 0.24% A1042 between the A1085 trunk Road and Waveney Road junction	A1085 Trunk Road, between junction wi	ith A1053 and junc	tion with Normanb	y Road
12 hr (7am-7pm) 8970 15 0.17% 24 hr 10910 22 0.20% A1085 Trunk Road / Longlands Road, between junction with Normanby Road and junction with A171 Cargo Fleet Lane AM peak hour 1057 1 0.13% PM peak hour 1083 1 0.13% 12 hr (7am-7pm) 10797 15 0.14% 24 hr 13132 22 0.17% A174 between the A1053 and A171 AM peak hour 2617 6 0.24% PM peak hour 2680 6 0.24% 12 hr (7am-7pm) 26723 66 0.25% 24 hr 32502 78 0.24% A1042 between the A1085 trunk Road and Waveney Road junction	AM peak hour	879	1	0.16%
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A1085 Trunk Road / Longlands Road, between junction with Normanby Road and junction with A171 Cargo Fleet Lane AM peak hour 1057 1 0.13% PM peak hour 1083 1 0.13% 12 hr (7am-7pm) 10797 15 0.14% 24 hr 13132 22 0.17% A174 between the A1053 and A171 AM peak hour 2617 6 0.24% PM peak hour 2680 6 0.24% 12 hr (7am-7pm) 26723 66 0.25% 24 hr 32502 78 0.24% A1042 between the A1085 trunk Road and Waveney Road junction	12 hr (7am-7pm)	8970	15	0.17%
junction with A171 Cargo Fleet Lane AM peak hour 1057 1 0.13% PM peak hour 1083 1 0.13% 12 hr (7am-7pm) 10797 15 0.14% 24 hr 13132 22 0.17% A174 between the A1053 and A171 AM peak hour 2617 6 0.24% PM peak hour 2680 6 0.24% 12 hr (7am-7pm) 26723 66 0.25% 24 hr 32502 78 0.24% A1042 between the A1085 trunk Road and Waveney Road junction	24 hr	10910	22	0.20%
PM peak hour 1083 1 0.13% 12 hr (7am-7pm) 10797 15 0.14% 24 hr 13132 22 0.17% A174 between the A1053 and A171 AM peak hour 2617 6 0.24% PM peak hour 2680 6 0.24% 12 hr (7am-7pm) 26723 66 0.25% 24 hr 32502 78 0.24% A1042 between the A1085 trunk Road and Waveney Road junction		etween junction wi	th Normanby Road	d and
12 hr (7am-7pm) 10797 15 0.14% 24 hr 13132 22 0.17% A174 between the A1053 and A171 AM peak hour 2617 6 0.24% PM peak hour 2680 6 0.24% 12 hr (7am-7pm) 26723 66 0.25% 24 hr 32502 78 0.24% A1042 between the A1085 trunk Road and Waveney Road junction	AM peak hour	1057	1	0.13%
24 hr 13132 22 0.17% A174 between the A1053 and A171 AM peak hour 2617 6 0.24% PM peak hour 2680 6 0.24% 12 hr (7am-7pm) 26723 66 0.25% 24 hr 32502 78 0.24% A1042 between the A1085 trunk Road and Waveney Road junction	PM peak hour	1083	1	0.13%
A174 between the A1053 and A171 AM peak hour 2617 6 0.24% PM peak hour 2680 6 0.24% 12 hr (7am-7pm) 26723 66 0.25% 24 hr 32502 78 0.24% A1042 between the A1085 trunk Road and Waveney Road junction	12 hr (7am-7pm)	10797	15	0.14%
AM peak hour 2617 6 0.24% PM peak hour 2680 6 0.24% 12 hr (7am-7pm) 26723 66 0.25% 24 hr 32502 78 0.24% A1042 between the A1085 trunk Road and Waveney Road junction	24 hr	13132	22	0.17%
PM peak hour 2680 6 0.24% 12 hr (7am-7pm) 26723 66 0.25% 24 hr 32502 78 0.24% A1042 between the A1085 trunk Road and Waveney Road junction	A174 between the A1053 and A171			
12 hr (7am-7pm) 26723 66 0.25% 24 hr 32502 78 0.24% A1042 between the A1085 trunk Road and Waveney Road junction	AM peak hour	2617	6	0.24%
24 hr 32502 78 0.24% A1042 between the A1085 trunk Road and Waveney Road junction	PM peak hour	2680	6	0.24%
A1042 between the A1085 trunk Road and Waveney Road junction	12 hr (7am-7pm)	26723	66	0.25%
	24 hr	32502	78	0.24%
AM neak hour 813 2 0.25%	A1042 between the A1085 trunk Road a	nd Waveney Road	junction	
7.1VI POUR 110UI 2 0.20/0	AM peak hour	813	2	0.25%





	2024 Baseline	Cumulative Traffic	% Impact
PM peak hour	833	2	0.24%
12 hr (7am-7pm)	8301	22	0.27%
24 hr	10097	37	0.37%
A1085 Trunk Road between A1042 and T	hrush Road junct	ions	
AM peak hour	859	1	0.09%
PM peak hour	879	1	0.08%
12 hr (7am-7pm)	8766	8	0.09%
24 hr	10662	10	0.10%

7.2.5 As can be seen, the percentage increases in traffic along the highway as a result of REC plus cumulative sites are in the order of less than 1% and up to a maximum of 2.20%. These increases are negligible.

7.3 Impact Upon Road Safety

- 7.3.1 Section 2 contains an analysis of PIA data and concludes that there does not appear to be anything in relation to the existing highway layout or geometries that contribute to a road safety concern.
- 7.3.2 There are already HGV movements along all of the highway network and there is nothing to suggest that operational HGVs would create a road safety issue.
- 7.3.3 It is considered that REC traffic would not create in any road safety issues that would result in an unacceptable impact on highway safety.

7.4 Impact upon Sustainable Modes of Transport

- 7.4.1 REC staff may use sustainable modes of transport. During the periods when REC staff would arrive and depart on site, the footways, cycleways, bus services and train services in the vicinity of the site generally have available capacity.
- 7.4.2 REC staff are not predicted to be at a level that will impact upon the capacity of these modes of transport, and it is considered that the proposed development would not impact upon sustainable modes of transport.

7.5 Summary

- 7.5.1 The above assessments demonstrate that REC traffic flows would not result in any noticeable increases along the local road network and would not create or materially impact upon any congestion that may occur during the day.
- 7.5.2 The link assessments set out in this section demonstrate that the impacts of REC are negligible during the AM and PM peak hours.
- 7.5.3 It is therefore concluded that REC traffic flows would not result in a severe impact along the local road network or an unacceptable impact on highway safety.





8 SUMMARY AND CONCLUSIONS

- 8.1.1 This Transport Assessment (TA) has been prepared by RPS on behalf of Redcar Holdings Limited to support a planning application for the proposed Redcar Energy Centre (REC) at Redcar Bulk Terminal.
- 8.1.2 The proposed REC would provide a long-term sustainable waste management and energy generation operation located adjacent to the former steel works at land at Redcar Bulk Terminal comprising of the following elements:
 - Material Recovery Facility incorporating a Bulk Storage Facility;
 - an Energy Recovery Facility; and,
 - an Incinerator Bottom Ash Recycling Facility.
- 8.1.3 This TA has been prepared in accordance with discussions with Highway Officers at Redcar and Cleveland Borough Council, and in accordance with recognised guidance and best practice documents. Discussions were in direct relation to the ES chapter as part of the ES scoping exercise; however, this has also been applied to the TA.
- 8.1.4 The REC would be operational 24/7, however, HGV movements would primarily be between 08:00 and 18:00 Monday to Sunday.
- 8.1.5 The REC would create up to 100 new jobs. Some of these would be shift workers and the remainder would be admin workers. This results in a total of up to 53 staff on site per day and up to 106 two-way staff vehicle movements.
- 8.1.6 In addition to 106 two-way staff movements, the development proposals would generate approximately 247 two-way HGV movements per day.
- 8.1.7 The site is accessible by a range of sustainable modes of transport modes and accords with relevant transport related policies.
- 8.1.8 The assessment of REC traffic flows upon baseline traffic flows demonstrate the predicted increases are negligible, and within expected day-to-day variances in traffic flow. It is therefore concluded that the impact of the REC on the local highway network would be negligible, and would not result in any severe impacts on the road network or unacceptable impact on highway safety.
- 8.1.9 There are therefore no transport or highways related reasons for not approving the application for the proposed REC.





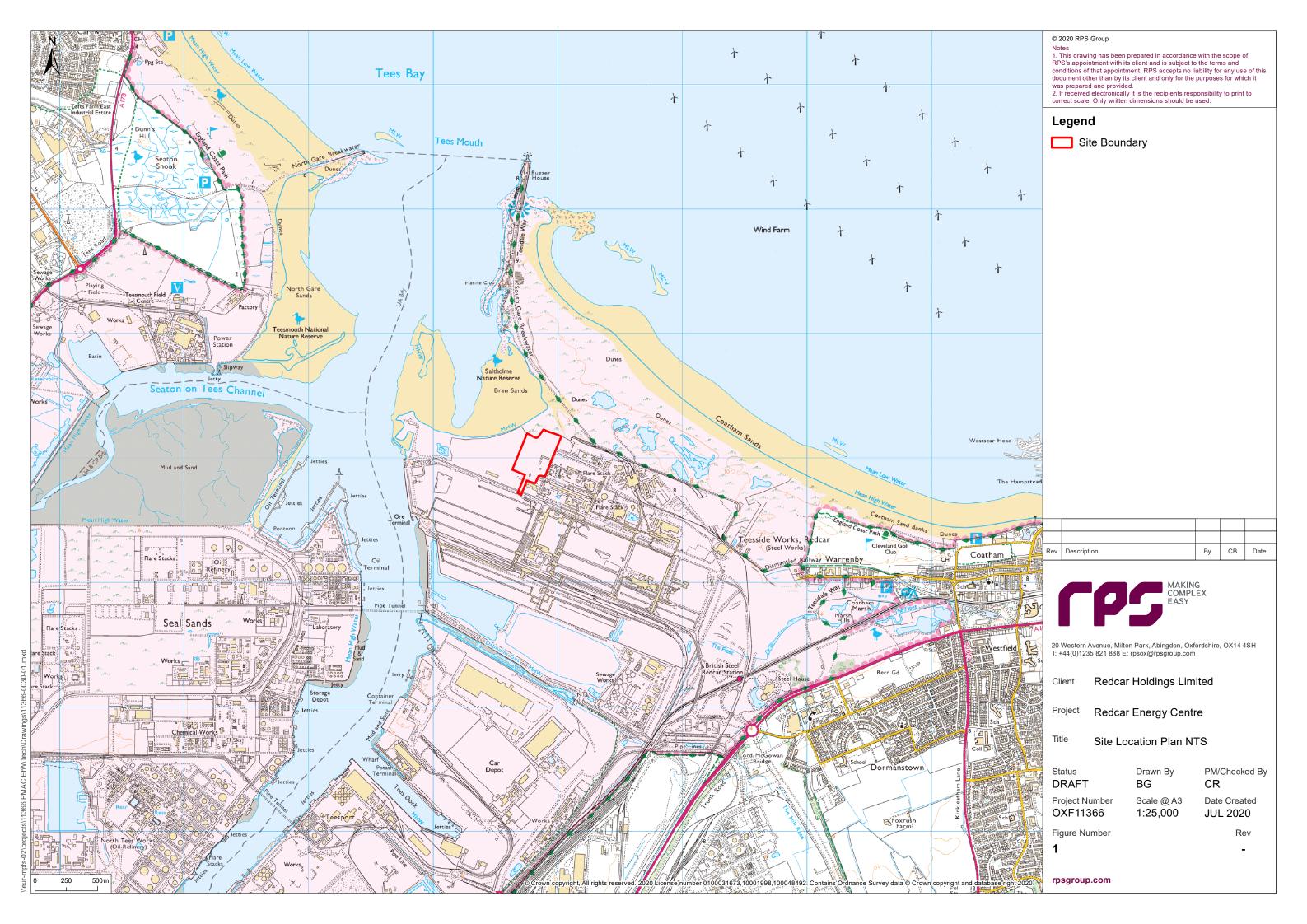
Annexes





Annex A

Site Location Plan

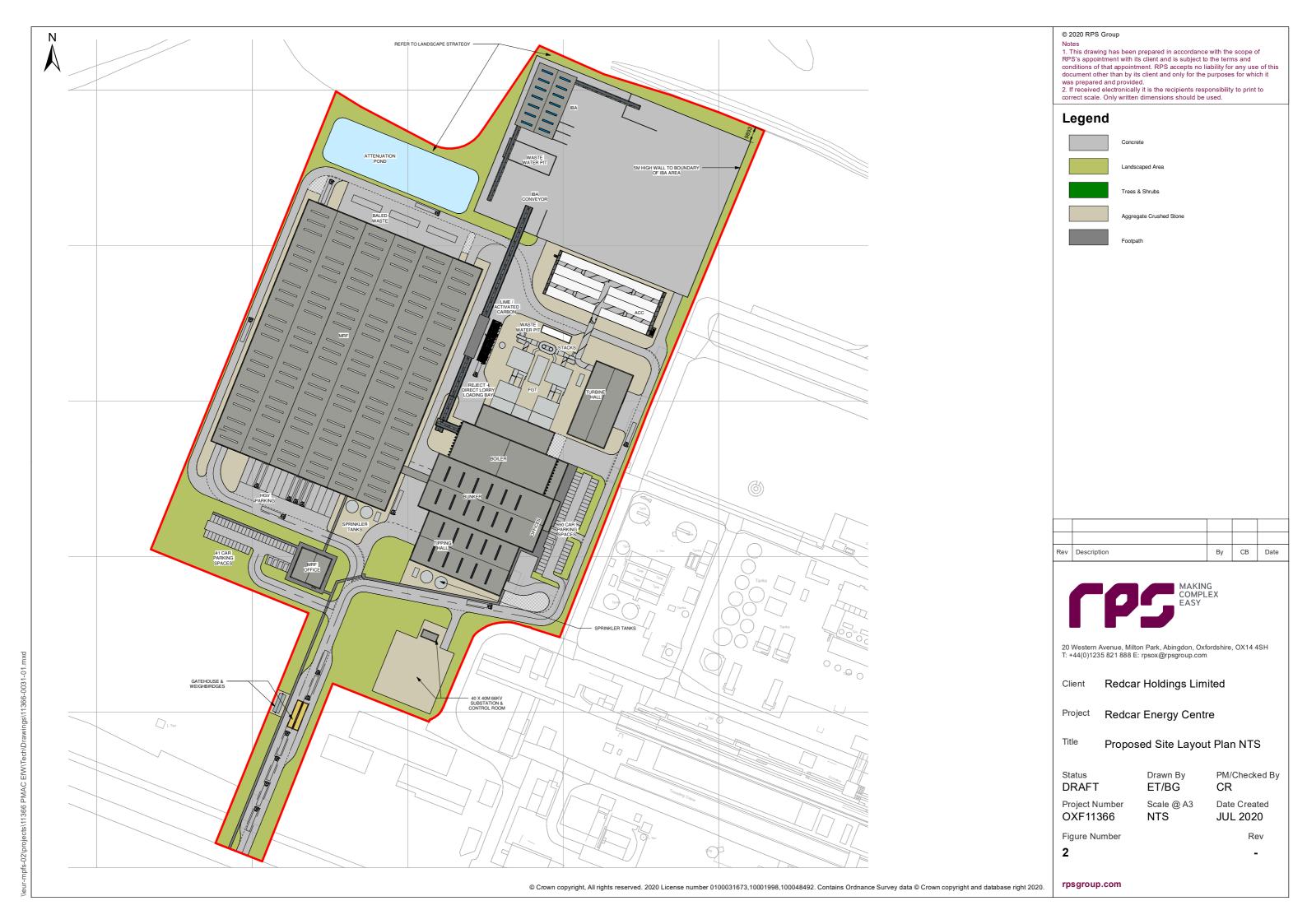






Annex B

Site Layout Plan







Annex C

2018 Traffic Flow Data

											20	18 Observ	red											
												Link 1												
											runk Road	South of A	Access Ro	undabout										
Time				y Average						Average					turday Avei							Average		
Begin	North	bound	South	nbound	Two	Way	North	bound	South	bound	Two	Way	North	ibound	South	nbound	Two	Way	North	nbound	South	nbound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											81	4												
01.00											53	2												
02.00											47	2												
03.00											53	2												
04.00											86	4												
05.00											393	17												
06.00											751	33												
07.00											1222	54												
08.00											1390	61				l								
09.00											987	43												
10.00											952	42												
11.00											1039	46												
12.00											1118	49												
13.00											1179	52												
14.00											1194	53												
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16.00											1446	64												
17.00											1423	63												
18.00											966	43												
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21.00											317	14												
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12 hr	0	0	0	0	0	0	0	0	0	0	14192	625	0	0	0	0	0	0	0	0	0	0	0	0
18 hr	0	0	0	0	0	0	0	0	0	0	16548	729	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	8669	374	8593	386	17262	760	0	0	0	0	0	0	0	0	0	0	0	0

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03.00											69	5												
04.00											111	8												
05.00											509	37												
06.00											974	70												
07.00											1585	114												
08.00											1802	130												
09.00											1280	92												
10.00											1235	89												
11.00											1347	97												
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13.00											1529	110												
14.00											1548	111												
15.00											1653	119												
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22.00											318	23												
23.00											164	12												
12 hr	0	0	0	0	0	0	0	0	0	0	18399	1325	0	0	0	0	0	0	0	0	0	0	0	0
18 hr	0	0	0	0	0	0	0	0	0	0	21453	1544	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	10748	849	11631	762	22379	1611	0	0	0	0	0	0	0	0	0	0	0	0

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Time Begin	North	bound	South	nbound	Two	Way	North	bound		nbound	Two	Way	North	bound		bound	Two	Way	North	bound	South	bound	Two	Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
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03.00											42	4												
04.00											68	6												
05.00											312	27												
06.00											596	51												
07.00											969	83												
08.00											1102	95												
09.00											783	67												
10.00											755	65												
11.00											824	71												
12.00											887	76												
13.00											935	81												
14.00											947	82												
15.00											1011	87												
16.00											1146	99												
17.00											1128	97												
18.00											766	66												
19.00											433	37												
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18 hr	0	0	0	0	0	0	0	0	0	0	13120	1130	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	7122	596	6564	583	13686	1179	0	0	0	0	0	0	0	0	0	0	0	0
24 NF	U	0	0	U		U	1122	596	0304	583	13080	11/9	U	0	0	0	0	U U	0	U	0	U	0	U

											20	018 Observ	red											
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											between /	A1053 and	A171 Junc											
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04.00											111	14												
05.00											509	65								-				
06.00											973	125												
07.00											1583	203												
08.00											1800	230												
09.00											1279	164								-				
10.00											1233	158												
11.00											1346	172												
12.00											1448	185												
13.00											1527	195												
14.00											1546	198												
15.00											1651	211												
16.00											1872	240												
17.00											1843	236												
18.00											1251	160												
19.00											707	90												
20.00											480	61												
21.00											410	53												
22.00											317	41												
23.00											163	21												
12 hr	0	0	0	0	0	0	0	0	0	0	18379	2353	0	0	0	0	0	0	0	0	0	0	0	0
18 hr	0	0	0	0	0	0	0	0	0	0	21429	2744	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	11451	1471	10903	1391	22354	2862	0	0	0	0	0	0	0	0	0	0	0	0

											20	018 Obser	ved											
								440	or Taxable F	Road, betwe		Link 5	F0	_41	Manuara (1964)	D d								
			Weekda	y Average				ATU		Koad, betwe Average	en junctio	n with A1t	53 and Jun		Normanby turday Avei						Sunday	Average		
Time	Fast	bound		tbound	Two	Way	Fast	oound		tbound	Two	Way	Fast	bound		tbound	Two	Way	Fast	bound		bound	Two	Way
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01.00											32	0												
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07.00											731	7												
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09.00											591	5												
10.00											570	5												
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12.00											669	6												
13.00											705	6												
14.00											714	7												
15.00											763	7												
16.00											865	8												
17.00											852	8												
18.00											578	5												
19.00											326	3												
20.00											222	2												
21.00											190	2												
22.00											147	1												
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18 hr	0	0	0	0	0	0		0	0	0	9901		0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	5137	44	5191	50	10328	94	0	0	0	0	0	0	0	0	0	0	0	0

											2	018 Observ	red											
												Link 6												
						1	41085 Trun	ik Road / L			een juncti	on with No	rmanby Ro	ad and jun			o Fleet Lan	ie						
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Begin		oound		bound		Way		oound		bound		Way		bound		tbound		Way		bound		bound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
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03.00											39	0												
04.00											62	1												
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07.00											882	10												
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09.00											712	8												
10.00											687	8												
11.00											750	9												
12.00											807	9												
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15.00											920	11												
16.00											1043	12												
17.00											1027	12												
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19.00											394	5												
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12 hr	0	0	0	0	0	0	0	0	0	0	10239	118	0	0	0	0	0	0	0	0	0	0	0	0
18 hr	0	0	0	0	0	0	0	0	0	0	11939	138	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	5022	76	7432	68	12454	144	0	0	0	0	0	0	0	0	0	0	0	0

											20	018 Observ	red											
												Link 7												
											A174 betwe	en the A10	53 and A1											
Time	F4			y Average	Torre	\A/	F			Average	Torre	\A/	E#		turday Aver		T	10/	F4			Average	Torre	10/
Begin		bound		bound		Way		bound		bound		Way		oound		tbound		Way		bound		bound		Way
00.00	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total 144	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
01.00											94	5												
02.00											83	5												
03.00											94	5												
04.00											152	9												
05.00											693	39												
06.00											1324	75												
07.00											2155	122												
08.00											2450	138												
09.00											1741	98												
10.00											1679	95												
11.00											1832	103												
12.00											1971	111												
13.00											2078	117												
14.00											2105	119												
15.00											2247	127												
16.00											2549	144												
17.00											2509	142												
18.00											1703	96												
19.00											962	54												
20.00											653	37												
21.00											558	32												
22.00											432	24												
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12 hr	0	0	0	0	0	0	0	0	0	0	25017	1412	0	0	0	0	0	0	0	0	0	0	0	0
18 hr	0	0	0	0	0	0	0	0	0	0	29169	1647	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	15687	871	14741	847	30428	1718	0	0	0	0	0	0	0	0	0	0	0	0

											2	018 Observ	red .											
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											he A1085	runk Road	and Wave											
Time				y Average						Average					turday Aver							Average		
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	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											44	1												
01.00											29	1												
02.00											25	0												
03.00											29	1												
04.00											47	1												1
05.00											213	4												
06.00											407	7												
07.00											662	12												
08.00											753	13												
09.00											535	9												
10.00											516	9												
11.00											563	10												
12.00											605	11												
13.00											638	11												
14.00											647	11										1		
15.00											690	12												
16.00											783	14												
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18 hr	0	0	0	0	0	0	0	0	0	0	8960	158	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	4691	90	4656	75	9347	165	0	0	0	0	0	0	0	0	0	0		0

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Time				y Average		147				Average		147			turday Ave		_	147				Average		
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00.00	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total 47	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
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03.00				-							31	0		-				-		-		ļ		
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08.00					1						796	9										1		
09.00						-					565	6												─
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12.00					1						640	7										1		
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14.00											684	8												
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19.00											312	4												
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18 hr	0	0	0	0	0	0	0	0	0	0	9475	106	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	4794	53	5090	58	9884	111	0	0	0	0	0	0	0	0	0	0	0	0





Annex D

Committed / Cumulative Development Long List

Re	ference	Name	Application Reference	Description	Distance from Site	Planning Status	Assessed within ES /	Description
			Kelefelice	Tier 1	HOIH SILE		IA:	
1		Ground preparation for Soil for Storage	R/2019/0427/FFM	Demolition of structures and engineering operations associated with the ground preparation and temporary storage of soil and its final use in the remediation and preparation of land for regeneration and development.	1.96 km	Granted 27/09/19	No	No TS / TA / ES Charpter setting out traffic flow data
2		Kirkleatham Lane	R/2016/0663/OOM	A development entailing the creation of up to 550 residential units, with associated access, landscaping and open space. The proposal has been granted outline consent, with the access having been constructed and issues being examined through Reserve Matters. The construction of the development is proposed to start in 2020.	3.97 km	Granted 25/05/17	Yes	"Due to the location and current highway network in the vicinity of the site the proposed dwellings would not warrant a requirement for the proposal to be supported by an EIA." Peak hours assessed 07:45-08:45, 16:30-17:30 identified by traffic survey. 8% of traffic routes along A1085 Trunk Road, 11% on A174 East
3		Port Blyth Biomass Power Station	R/2008/671/EA https://infrastructure.pl anninginspectorate.go v.uk/projects/north- east/port-blyth-new- biomass- plant/?ipcsection=docs	Proposed construction of a 300 Mw biomass fired renewable energy power station on land adjacent to the main southern dock at Teeside on the south bank of the River Tees.	2.62 km	Granted 24/07/13	No	Work ceased in 2014, and priject dropped. https://www.bbc.co.uk/news/uk-england-tyne-26466442
4		Teesside Combined Cycle Power Plant (CCPP)	R/2018/0364/NID	Construction of a 1,700MWe combined-cycle gas turbine power station at Wilton International	5.18 km	DCO made 05/04/19, granted	Yes	Access taken from A1053 Greystone Road. Predicted peak construction year of 2021, operational year of 2023
5		Northern Gateway Container Terminal	R/2006/0433/OO	Proposed container terminal at Teesport, Grangetown, with granted planning permission and reserved matters for landscaping.	1.29 km	Granted 04/10/07	No	Revision order in 2018. "The proposal is to extend the 2008 HRO by 10 years until 8th May 2028."
6		Peak African Minerals Ltd.	R/2017/0876/FFM	Planning permission has been granted for this proposed refinery extracting rare earth minerals (neodymium, praseodymium, cerium, lanthanum) from the ore concentrates, although no further action has progressed.	4.78 km	Granted 16/01/18	Yes	"In total (including staff), it is estimated that 185 daily two-way movements would be generated, with 78 two-way movements in the morning peak hour (08:00 to 09:00) and 34 two-way movements in the evening peak hour (17:00 – 18:00). Of these, there would be 78 daily two-way HGV movements, 44 of which would be in the morning peak hour. No HGV movements are predicted to occur in the evening peak hour, as site deliveries would be constrained to between 08:00 and 17:00 hrs. There would be a need for around 1,500 loaded containers per year to be delivered to the site." "The refinery would therefore need to be ready to receive the ore concentrate towards the end of 2019 / early 2020." Takes access from the Wilton International access road
7		York Potash Port and Materials Handling Facilities	TR03002 R/2014/0626/FFM R/2014/0627/FFM R/2017/0906/OOM R/2018/0139/VC R/2018/0649/CL	A Development Consent Order Proposed has been granted for this port facility on Teesside for the export of polyhalite bulk fertiliser. Other applications relate to: Polyhalite granulation and storage facility; Winning and working of polyhalite by underground methods; Overhead conveyor and associated storage facilities; Amendments to approved layout and size of buildings, ponds etc Proposed use of land for mineral transfer apparatus	681 m	DCO made 20/07/16	Yes	"During the operational phase, the Harbour facilities would require 26 employees during Phase 1, increasing to 36 employees by Phase 2, of which 18 would be required on any one day. The 18 employees would then be further disaggregated into three shifts, resulting in a peak daily demand of 10 employees on site at any one time. During the operational phase, it is not proposed that there would be any regular HGV movements from the Harbour facilities; save for incidental deliveries such as for maintenance and refuse collection. Therefore, the traffic impact associated with the operational phase would be inconsequential and is not considered further within this TA."

8	Grangetown Prairie Energy Recovery Facility	R/2019/0767/OOM	Outline application for the construction of an energy recovery facility (REF) and associated development.	4.34 km	Application submitted 19/12/19	Yes	No traffic during the PM Peak hours, seems to be considered favorably in comments with the LHA / HE
9	Proposed new buildings, plant upgrade, swale and associated parking	19/2161/FUL	Erection of new plant, new buildings and extensions to existing buildings. Works to include Warehouse D Extension, Boiler House Structure, Amenities & Workshop Building, Drum Storage Workshop Extension, Amenities extension, 2 no. Warehouse buildings, Contractors cabins, Gate House and Weighbridge, Receivers, Driers, Extension to existing Tank Farm, Tanker Offloading stations, Process and control buildings, Installation of new and replacement cooling towers and industrial apparatus, Pipe Bridge, Swale and the demolition of old plant and buildings.	2.54 km	Granted 21/02/20	No	Location won't utilise the same road network
10	Graythorp Energy Centre	H/2019/0275	Energy recovery (energy from waste) facility and associated infrastructure.	4.36 km	Decision pending	No	Doesn't utilise same highway network
11	Redcar and Cleveland Borough Council	R/2020/0075/F3M	Demolition of existing cinema and replace with new cinema including external terraces; landscaping and temporary sea wall. Regency Cinema TS10 1AU	4.16km	Decision pending	No	No Transport Statement / Assessment or details of traffic flows
12	Scott Brothers	R/2020/0223/FF	Erection of a soil and aggregates recycling and washing plant facility including welfare cabin and associated car parking and landscaping Land off John Boyle Road, Grangetown	4.63km	Application submitted 04/05/20	No	Although the site will generate vehicle movements over an 11hr period (111 arrivals and 111 departures), no transport assessment on the local highway network has been undertaken and it does not state where HGVs will be routeing from
13	Mr Milen	R/2020/0100/FFM	Demolition of vacant agricultural buildings and replace with 3 blocks of 2 storey modular buildings comprising 20 residential units, office and energy centre including associated ca parking, boundary fencing and gates and communal landscaping.	3.22 km	Application submitted 21/04/20	No	No Transport Statement / Assessment or details of traffic flows. The location and scale of development will not generate traffic on our network.
			Westfield Barn, the Green, Dormanstown TS10 5NA Tier 2				
14	Able South Bank	R/2019/0331/SCP	A port-based development for the Offshore Marine Energy Sector (offshore wind turbines) for land at South Bank,	3.51 km	Scoping opinion issued 27/06/19	No	The scoping report sets out the the ES chapter will cover Traffic & Transportation; however, there is no traffic flow data available to incorporate into the assesment.
15	Net Zero Teeside Project - Cluster	NSIP https://infrastructure.pl anninginspectorate.go v.uk/projects/north- east/the-net-zero- teesside- project/?ipcsection=do cs	This proposal comprises the development of a Combined Cycle Gas Turbine (CCGT) gas-fired generating station and gas, electricity and cooling water connections and a CO2 pipeline for the transport CO2 to an offshore geological storage area.	951 m	Scoping direction issued	No	During the operational phase of the development, it is anticipated that there will be a work-force of approximately 100 people that will be required on a shift basis to be spread over a 24 hour period. Staff will travel to and from work in a variety of directions. Fuel will be delivered by pipeline and other operational and maintenance consumables will be managed to be kept as low as is reasonably practicable. Therefore, it is considered that the effects of operational traffic would be negligible and a detailed assessment of the operational phase of the development is not proposed for the ES.
			Tier 3				
16	St Hildas Church	H3.11	Allocated in the Redcar and Cleveland Borough Council 2018 Local Plan for 25 units	4.39 km	Allocation	No	Doesn't utilise our network
17	Teesside Combined Cycle Power Plant (CCPP)	EG1	General employment development focusing on logistics (B8 Use Class), manufacturing and engineering (B2 Use Class)	1.64km	Allocation	No	Doesn't utilise our network





Annex E

Committed Development Traffic Flows

Committed AADT Flows

		Two-Way			One-way	
Link	AADT	HGVs	Lights	AADT	HGVs	Lights
A1085 Trunk Road South of Access Roundabout	452	43	409	226	21	204
A1053 between A66 and A1085 Trunk Road junction	638	102	536	319	51	268
A1053 between A66 and A174 Junctions	379	97	282	190	49	141
A66 between A1053 and A171 Junctions	613	77	536	306	39	268
A1085 Trunk Road, between junction with A1053 and junction with						
Normanby Road	39	3	36	20	1	18
A1085 Trunk Road / Longlands Road, between junction with						
Normanby Road and junction with A171 Cargo Fleet Lane	23	3	20	12	1	10
A174 between the A1053 and A171	474	29	445	237	14	223
A1042 between the A1085 Trunk Road and Waveney Road						
junction	258	3	255	129	1	128
A1085 Trunk Road between A1042 and Thrush Road junctions	258	3	255	129	1	128





Annex F

2024 Baseline Traffic Flows

											2024 Ba	seline Traf	fic Flows											
												Link 1												
											runk Road	South of A	Access Ro											
			Weekda	y Average					Yearly.	Average				Sat	urday Aver	age					Sunday	Average		
Time Begin	Northi	bound	South	bound	Two	o Way	North	bound	South	bound	Two	Way	North	bound	South	bound	Two	Way	North	bound	South	bound	Two	Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											88	4											i	
01.00											57	3											i	
02.00											51	2											i	
03.00											58	3											1	
04.00											93	4											i	
05.00											424	19											i	
06.00											811	37											i	
07.00											1319	60											i	
08.00											1500	68											i	
09.00											1065	48											i	
10.00											1027	47											i	
11.00											1121	51											í	
12.00											1206	55											í	
13.00											1272	58											í	
14.00											1288	58											i	
15.00											1375	62											i	
16.00											1560	71											i	
17.00											1535	70											Ī	
18.00											1042	47											ī	
19.00											589	27											i	
20.00											400	18											i	
21.00						1					342	15												
22.00						1					264	12											i	
23.00											136	6												
						-					.00		-			-		-						-
12 hr	0	0	0	0	0	0	0	0	0	0	15310	693	0	0	0	0	0	0	0	0	0	0	0	0
18 hr	0	0	0	0	0	0	0	0	0	0	17851	808	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	9351	415	9271	428	18622	843	0	0	0	0	0	0	0	0	0	0	0	0

											2024 Ba	seline Traf	fic Flows											
												Link 2												
											tween A66	and A1085	Trunk Ro	d junction										
Time				y Average						Average				Sat	urday Aver							Average		
Begin		bound		bound		Way		oound		tbound		Way		oound		bound		Way		bound		tbound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											114	8												
01.00											75	6												
02.00											66	5												
03.00											75	6												
04.00											121	9												
05.00											551	41												
06.00											1053	78												
07.00											1713	127												
08.00											1948	145												
09.00											1384	103												
10.00											1335	99												
11.00											1456	108												
12.00											1567	116												
13.00											1652	123												
14.00											1673	124												
15.00											1787	133												
16.00											2026	151												<u> </u>
17.00											1995	148												<u> </u>
18.00											1354	101												<u> </u>
19.00											765	57												<u> </u>
20.00											519	39												<u> </u>
21.00											444	33												
22.00											343	26												
23.00											177	13												
12 hr	0	0	0	I 0	l 0	I 0	٥	0	0	l 0	19892	1478	0	0	0	n	n	Ι ο	0	1 0	0	0	0	0
18 hr	0	0	0	0	0	0	0	0	0	0	23193	1724	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	11632	945	12562	853	24194	1724	0	0	0	0	0	0	0	0	0	0	0	0

											2024 Ba	seline Traf	fic Flows											
												Link 3												
											3 between	A174 and	41085 Jun											
Time				y Average						Average					turday Aver			***				Average		
Begin		bound		nbound		Way		bound		nbound		Way		bound		bound		Way		bound		bound		Way
00.00	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total 70	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
01.00				1		1					46	1 1						-				-		-
02.00				-		-					40	1					-	-				-		-
03.00											46	4												
04.00											74	7												\vdash
05.00											337	30												
06.00											644	58												
07.00											1047	95												1
08.00											1191	108												
09.00											846	77												1
10.00											816	74												
11.00											890	81												
12.00											958	87												
13.00											1010	91												
14.00											1023	93												
15.00											1092	99												
16.00											1238	112												
17.00											1219	110												
18.00											827	75												
19.00											467	42												
20.00											317	29												
21.00											271	25												
22.00											210	19												
23.00											108	10												<u> </u>
12 hr	0	0	0	1 0	0	0	0	0	0	0	12156	1100	0	0	0	0	0	0	0	0	0	0	0	0
18 hr	0	0	0	0	0	0	0	0	0	0	14174	1283	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	7686	676	7099	662	14785	1338	0	0	0	0	0	0	0	0	0	0	0	0

											2024 Ba	seline Traf	fic Flows											
												Link 4												
											between a	41053 and	A171 Junc											
Time				y Average						Average					turday Aver				_			Average		
Begin		bound		tbound		Way		oound		bound		Way		oound		bound		Way		bound		bound		Way
00.00	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total 114	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
01.00											74	10												+
02.00																								+
				-	-	-					66	8				-				-				—
03.00				-							75 120	10												
												15												
05.00											550	70												
06.00											1051	134												
07.00											1710	219												
08.80											1944	249												
09.00											1381	177												
10.00											1332	170												
11.00											1453	186												
12.00											1564	200												
13.00											1649	211												
14.00											1670	214												
15.00											1783	228												
16.00											2022	259												
17.00											1991	255												
18.00											1351	173												—
19.00											763	98												
20.00											518	66												
21.00											443	57												
22.00	 			1	 	1	l		1		343	44				 				 				
23.00											176	23												+
20.00			l								170													——
12 hr	0	0	0	0	0	0	0	0	0	0	19849	2540	0	0	0	0	0	0	0	0	0	0	0	0
18 hr	0	0	0	0	0	0	0	0	0	0	23144	2962	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	12360	1587	11783	1503	24143	3090	0	0	0	0	0	0	0	0	0	0	0	0

											2024 Ba	seline Traf	fic Flows											
												Link 5												
								A10			een junctio	n with A10	53 and jun	ction with N	Normanby	Road								
Time				y Average						Average					turday Aver							Average		
Begin		bound		bound		Way		bound		bound		Way		bound		tbound		Way		bound		bound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											52	0												
01.00											34	0												
02.00											30	0												
03.00											34	0												
04.00											54	1												
05.00											248	2												
06.00											475	4												
07.00											773	7												
08.00											879	8												
09.00											624	6												
10.00											602	6												
11.00											657	6												
12.00											707	7												
13.00											745	7												
14.00											755	7												
15.00											806	8												
16.00											914	9												
17.00											900	8												
18.00											611	6												
19.00											345	3												
20.00											234	2												
21.00											200	2												
22.00											155	1												
23.00											80	1												
				-							1 30	· · ·							-					
12 hr	0	0	0	0	0	0	0	0	0	0	8970	84	0	0	0	0	0	0	0	0	0	0	0	0
18 hr	0	0	0	0	0	0	0	0	0	0	10459	98	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	5427	48	5484	54	10910	102	0	0	0	0	0	0	0	0	0	0	0	0

											2024 Ba	seline Traf	fic Flows											
												Link 6												
							A1085 Trui	nk Road / L			een juncti	on with No	manby Ro	ad and jun			o Fleet Lar	ie						
Time	Eastb	a un d		y Average bound	Ture	Way	Foot	bound		Average bound	Tues	Way	Foot	Sa bound	turday Aver	rage tbound	Torre	Way	Foot	bound		Average bound	Torre	o Way
Begin	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00	Total	HGV S	Total	HGV S	Total	ngvs	Total	ngvs	Total	HGV S	62	1	Total	HGV S	Total	ngv s	Total	ngv s	Total	HGV S	Total	ng v s	Total	почѕ
01.00											40	0												
02.00											36	0												
03.00											41	0												
04.00											65	1												
05.00											299	4												1
06.00											572	7												1
07.00											930	11												
08.00											1057	12												
09.00											751	9												
10.00											724	9												
11.00											790	9												
12.00											851	10												
13.00											897	11												
14.00											908	11												
15.00											970	11												
16.00											1100	13												
17.00											1083	13												
18.00											735	9												
19.00											415	5												
20.00											282	3												
21.00											241	3												
22.00											186	2												
23.00											96	1												
12 hr	0	0	n	l n	n	l 0	l 0	0	1 0	l 0	10797	127	0	0	l n	l n	l n	l 0	l n	0	n	n	0	0
18 hr	0	0	0	0	0	0	0	0	0	0	12589	148	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	5298	81	7834	73	13132	155	0	0	0	0	0	0	0	0	0	0	0	0

											2024 Ba	seline Traf	fic Flows											
												Link 7												
			MI-I-						Vb		174 betwe	en the A10	53 and A17								0	A		
Time	Foot	bound		y Average bound	Tue	Way	Footl	bound		Average bound	Torre	Way	Foot	oound	turday Ave	rage tbound	Time	Way	Foot	bound		Average bound	True	o Way
Begin	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00	TOtal	HGV S	TOtal	HGV S	TOtal	HGV S	TULAI	HGV S	TOtal	TIGV S	153	9	TOtal	HGV S	TOtal	HGV S	Total	IIGV S	TOtal	HGV S	TOtal	HGVS	TOtal	HGV S
01.00											100	6												-
02.00											89	5				1								+
03.00											101	6												+
04.00											162	9												
05.00											740	42												
06.00											1415	80												
07.00											2302	130												
08.00											2617	148												
09.00											1859	105												
10.00											1793	101												
11.00											1956	111												
12.00											2105	119												
13.00											2220	125												
14.00											2248	127												
15.00											2400	136												
16.00											2722	154												
17.00											2680	151												
18.00											1819	103												
19.00											1027	58												
20.00											698	39												
21.00											596	34												
22.00											461	26												
23.00											238	13												
12 hr	0	1 0	0	0	I 0	l 0	n	I 0	1 0	l 0	26723	1510	0	l 0	l 0	l n	I n	I n	l 0	l 0	l n	0	۱ ،	0
18 hr	0	0	0	0	0	0	0	0	0	0	31158	1761	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	n	0	16749	931	15753	906	32502	1837	0	0	0	0	0	0	0	0	0	0	0	0

											2024 Ba	seline Traf	fic Flows											
												Link 8												
											he A1085 1	runk Road	and Wave											
Time				y Average						Average					turday Aver							Average		
Begin	Northb			bound		Way		bound		bound		Way		bound		bound		Way		bound		bound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											48	1												
01.00											31	1												↓
02.00											28	0												
03.00											31	1												
04.00											50	1												<u> </u>
05.00											230	4												<u> </u>
06.00											439	8												
07.00											715	13												
08.00											813	14												
09.00											578	10												
10.00											557	10												
11.00											608	11												
12.00											654	11												
13.00											690	12												
14.00											698	12												
15.00											746	13												
16.00											846	15												
17.00											833	15												
18.00											565	10												
19.00											319	6												+
20.00				<u> </u>							217	4				1						1		+
21.00				1							185	3				 						1		\vdash
22.00				-							143	3				-						-	-	├──
23.00											74	1 3										1		+
23.00						I					14								l			l	l	
12 hr	0	0	0	0	0	0	0	0	0	0	8301	145	0	0	0	0	0	0	0	0	0	0	0	0
18 hr	0	0	0	0	0	0	0	0	0	0	9679	169	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	5067	96	5030	80	10097	177	0	0	0	0	0	0	0	0	0	0	0	0

											2024 Ba	seline Traf	fic Flows											
												Link 9												
									A10	85 Trunk R	load betwe	en A1042 a	ınd Thrush	Road junc	tions									
Time				y Average						Average					urday Aver							Average		
Begin		bound	West	tbound		Way		oound		bound		Way		oound		bound	Two	Way		bound		bound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											50	1												
01.00											33	0												
02.00											29	0												
03.00											33	0												
04.00											53	1												
05.00											243	3												
06.00											464	5												
07.00											755	8												
08.00											859	10												
09.00											610	7												
10.00											588	7												
11.00											642	7												
12.00											691	8												
13.00											728	8												
14.00											737	8												—
15.00											787	9												
16.00											893	10												
17.00						1					879	10										-		
18.00											597	7												
19.00											337	4												
20.00											229	3												
21.00					 						196	2												
22.00				1	 	1			 	 	151	2								1				
23.00					 				 	 	78	1												+
10.00											1 10	<u>'</u>												
12 hr	0	0	0	Ι 0	I 0	Ι 0	I 0	n	0	0	8766	98	0	0	0	Ι 0	I 0	I 0	I 0	I 0	l n	Ι 0	n	0
18 hr	0	0	0	0	0	0	0	0	0	0	10221	115	0	0	0	0	0	0	0	0	0	0	0	0
24 hr	0	0	0	0	0	0	5175	57	5487	63	10662	120	0	0	0	0	0	0	0	0	0	0	0	0





Annex G

Census Mode Share Data

WP703EW - Method of travel to work (2001 specification) (Workplace population)

ONS Crown Copyright Reserved [from Nomis on 14 June 2020]

population All usual residents aged 16 to 74 in employment in the area the week before the census

units Persons

area type 2011 super output areas - middle layer area name E02002517 : Redcar and Cleveland 003

Method of travel to work	2011	
All categories: Method of travel	8,964	
Work mainly at or from home	171	
Underground, metro, light rail or	1	0.0%
Train	27	0.3%
Bus, minibus or coach	235	2.7%
Taxi	33	0.4%
Motorcycle, scooter or moped	73	0.8%
Driving a car or van	7,189	81.8%
Passenger in a car or van	707	8.0%
Bicycle	245	2.8%
On foot	264	3.0%
Other method of travel to work	19	0.2%
	8,793	100%

Mode of Travel	Mode Share
Driving a car or van	81.8%
Passenger in a car or van	8.0%
Public Transport	3.0%
Motorcycle, Scooter or Moped	0.8%
Taxi	0.4%
Bicycle	2.8%
On foot	3.0%
Other	0.2%
Total	100.0%

In order to protect against disclosure of personal information, records have been swapped between different geographic areas. Some counts will be affected, particularly small counts at the lowest geographies.





Annex H

Census Population Data

KS101EW - Usual resident population

ONS Crown Copyright Reserved [from Nomis on 9 June 2020]

population All usual residents

units Persons rural urban Total

variable All usual residents

Local authority: district / unitary (prior to April 2015)	2011	Population Percentages	Likely Route to Site	Percentage of HGV Traffic
Scarborough	108,793	1.7%	A174 North / A1053 / Trunk Road	50%
Courserough	108,793	1.7%	A1042 / Trunk Road	50%
Hambleton	89,140	2.7%	A174 South / A1053 / Trunk Road	100%
Richmondshire	51,965	1.6%	A66 / Trunk Road	100%
Pyodalo	51,751	0.8%	A174 North / A1053 / Trunk Road	50%
Ryedale	51,751	0.8%	A174 South / A1053 / Trunk Road	50%
Harrogate	157,869	4.9%	A174 South / A1053 / Trunk Road	100%
York	198,051	6.1%	A174 South / A1053 / Trunk Road	100%
Redcar and Cleveland	135,177			100%
Middlesbrough	138,412			100%
Stockton-on-Tees	191,610	5.9%	A66 / Trunk Road	100%
Hartlepool	92,028	2.8%	A66 / Trunk Road	100%
Darlington	105,564	1.6%	A66 / Trunk Road	50%
Darlington	105,564	1.6%	A174 South / A1053 / Trunk Road	50%
County Durham	513,242	15.8%	A66 / Trunk Road	100%
Sunderland	275,506	8.5%	A66 / Trunk Road	100%
Gateshead	200,214	6.2%	A66 / Trunk Road	100%
Newcastle upon Tyne	280,177	8.6%	A66 / Trunk Road	100%
South Tyneside	148,127	4.6%	A66 / Trunk Road	100%
Northumberland	316,028	9.7%	A66 / Trunk Road	100%
North Tyneside	200,801	6.2%	A66 / Trunk Road	100%

3,254,455 92%

KS101EW - Usual resident population

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population All usual residents

units Persons rural urban Total

variable All usual residents

Area	Population (2011)	Likely Route to Site	Percentage of HGV Traffic	% of total
msoa2011:E02002515 : Redcar and Cleveland 001	6,810	Trunk Road North	100%	0.2%
msoa2011:E02002516 : Redcar and Cleveland 002	5,734	Trunk Road North	100%	0.2%
msoa2011:E02002517 : Redcar and Cleveland 003	5,380	Trunk Road North	50%	0.1%
Illisoazo II.Eozoozo III. Nedeal alid Cievelalid 003	5,380	A1053 / Trunk Road	50%	0.1%
msoa2011:E02002518 : Redcar and Cleveland 004	10,723	Trunk Road North	100%	0.3%
msoa2011:E02002519 : Redcar and Cleveland 005	7,045	A1042 / Trunk Road North	100%	0.2%
msoa2011:E02002520 : Redcar and Cleveland 006	13,176	A1042 / Trunk Road North	50%	0.2%
Illisoazu I I.Euzuuzuzu . Reucai ahu Cievelahu 000	13,176	A174 North / A1053 / Trunk Road	50%	0.2%
msoa2011:E02002521 : Redcar and Cleveland 007	5,958	A1042 / Trunk Road North	50%	0.1%
Illisoazu I I.Euzuuzuz I . Reucai ahu Cievelahu 007	5,958	A174 North / A1053 / Trunk Road	50%	0.1%
msoa2011:E02002523 : Redcar and Cleveland 009	6,514	A1085 Trunk Road / Longlands Road	50%	0.1%
Illisoazu I I.Euzuuzuzu . Reucai ahu Cievelahu 009	6,514	A66 / A1053 / Trunk Road	50%	0.1%
msoa2011:E02002524 : Redcar and Cleveland 010	5,394	A1085 Trunk Road North	100%	0.2%
msoa2011:E02002525 : Redcar and Cleveland 011	8,357	A1085 Trunk Road / Longlands Road	100%	0.3%
msoa2011:E02002526 : Redcar and Cleveland 012	7,454	A1042 / Trunk Road North	100%	0.2%
msoa2011:E02002527 : Redcar and Cleveland 013	5,177	A1085 Trunk Road / Longlands Road	100%	0.2%
msoa2011:E02002529 : Redcar and Cleveland 015	5,736	A1085 Trunk Road / Longlands Road	100%	0.2%
msoa2011:E02002530 : Redcar and Cleveland 016	6,519	A1042 / Trunk Road North	50%	0.1%
IIISOAZUTT.EUZUUZUU . Redcai ahd Cievelahd 010	6,519	A1085 Trunk Road North	50%	0.1%
msoa2011:E02002532 : Redcar and Cleveland 018	6,261	A174 South / A1053 / Trunk Road	100%	0.2%
msoa2011:E02002533 : Redcar and Cleveland 019	5,758	A174 South / A1053 / Trunk Road	100%	0.2%
msoa2011:E02002534 : Redcar and Cleveland 020	5,758	A174 South / A1053 / Trunk Road	100%	0.2%
msoa2011:E02006812 : Redcar and Cleveland 021	7,353	A174 South / A1053 / Trunk Road	100%	0.2%
msoa2011:E02006910 : Redcar and Cleveland 022	10,070	A1085 Trunk Road / Longlands Road	100%	0.3%
	172,724			4.2%

KS101EW - Usual resident population

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population All usual residents

units Persons rural urban Total

variable All usual residents

Area	Population (2011)	Likely Route to Site	Percentage of HGV Traffic	% of total
msoa2011:E02002496 : Middlesbrough 001	11,646	A66 / A1053 / Trunk Road	100%	0.4%
msoa2011:E02002497 : Middlesbrough 002	6,268	A66 / A1053 / Trunk Road	100%	0.2%
msoa2011:E02002498 : Middlesbrough 003	8,584	A66 / A1053 / Trunk Road	100%	0.3%
msoa2011:E02002499 : Middlesbrough 004	7,516	A66 / A1053 / Trunk Road	50%	0.1%
misoazo i i.eozooz499 . Middlesbrough oo4	7,516	A1085 Trunk Road / Longlands Road	50%	0.1%
msoa2011:E02002500 : Middlesbrough 005	5,919	A66 / A1053 / Trunk Road	50%	0.1%
misoazo i i.eozoozooo . Middlesbrougii ooo	5,919	A1085 Trunk Road / Longlands Road	50%	0.1%
msoa2011:E02002501 : Middlesbrough 006	5,346	A66 / A1053 / Trunk Road	50%	0.1%
misoazo i i.eozoozoo i . Middlesbrougii ooo	5,346	A1085 Trunk Road / Longlands Road	50%	0.1%
msoa2011:E02002502 : Middlesbrough 007	9,615	A1085 Trunk Road / Longlands Road	100%	0.3%
msoa2011:E02002503 : Middlesbrough 008	6,515	A66 / A1053 / Trunk Road	100%	0.2%
msoa2011:E02002504 : Middlesbrough 009	9,711	A66 / A1053 / Trunk Road	50%	0.1%
misoazo i i.eozoozoo4 . Middlesbrougii oo9	9,711	A1085 Trunk Road / Longlands Road	50%	0.1%
msoa2011:E02002505 : Middlesbrough 010	6,254	A1085 Trunk Road / Longlands Road	100%	0.2%
msoa2011:E02002506 : Middlesbrough 011	5,932	A1085 Trunk Road / Longlands Road	100%	0.2%
msoa2011:E02002507 : Middlesbrough 012	6,027	A1085 Trunk Road / Longlands Road	100%	0.2%
msoa2011:E02002508 : Middlesbrough 013	5,074	A1085 Trunk Road / Longlands Road	100%	0.2%
msoa2011:E02002509 : Middlesbrough 014	5,583	A1085 Trunk Road / Longlands Road	100%	0.2%
msoa2011:E02002510 : Middlesbrough 015	5,712	A174 South / A1053 / Trunk Road	100%	0.2%
msoa2011:E02002512 : Middlesbrough 017	5,305	A174 South / A1053 / Trunk Road	100%	0.2%
msoa2011:E02002513 : Middlesbrough 018	8,844	A174 South / A1053 / Trunk Road	100%	0.3%
msoa2011:E02002514 : Middlesbrough 019	8,967	A174 South / A1053 / Trunk Road	100%	0.3%
msoa2011:E02006811 : Middlesbrough 020	9,594	A174 South / A1053 / Trunk Road	100%	0.3%

166,904 4.3% 100.0%

3,254,455

Assuming majority of waste arrives from Teeside area

		Wider Area	Redcar	Middlesborough	Total
Link Number	Description	HGV Percentages	HGV Percentages	HGV Percentages	HGV Percentages
1	A1085 Trunk Road South of Access Roundabout	89.9%	2.8%	4.3%	97.0%
2	A1053 between A66 and A1085 Trunk Road junction	71.4%	0.1%	1.5%	72.9%
3	A1053 between A66 and A174 Junctions	18.6%	0.9%	1.5%	20.9%
4	A66 between A1053 and A171 Junctions	71.4%	0.1%	1.5%	72.9%
5	A1085 Trunk Road, between junction with A1053 and junction with Normanby Road	0.0%	1.0%	1.6%	2.6%
6	A1085 Trunk Road / Longlands Road, between junction with Normanby Road and junction with A171 Cargo Fleet Lane	0.0%	1.0%	1.6%	2.6%
7	A174 between the A1053 and A171	18.6%	0.8%	1.2%	20.5%
8	A1042 between the A1085 Trunk Road and Waveney Road junction	0.8%	0.8%	0.0%	1.7%
9	A1085 Trunk Road between A1042 and Thrush Road junctions	0.0%	1.9%	0.0%	1.9%





Annex I

HGV Traffic Flows

											REC I	IGV Traffic	Flows											
												Link 1												
											runk Road	South of A	ccess Ro											
_			Weekda	y Average					Yearly.	Average				Sat	turday Ave	age					Sunday	Average		
Time Begin	North	bound	South	bound	Two	Way	North	nbound	South	bound	Two	Way	North	bound	South	nbound	Two	Way	North	bound	South	nbound	Two	Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
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07.00																								
08.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
09.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
10.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
11.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
12.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
13.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
14.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
15.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
16.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
17.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
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12 hr	120	120	120	120	240	240	120	120	120	120	240	240	120	120	120	120	240	240	120	120	120	120	240	240
18 hr	120	120	120	120	240	240	120	120	120	120	240	240	120	120	120	120	240	240	120	120	120	120	240	240
24 hr	120	120	120	120	240	240	120	120	120	120	240	240	120	120	120	120	240	240	120	120	120	120	240	240

	02.00																							
										A4050 be	ACC		Tourist Day											
			Weekda	. Average					Yearly		ween Abb	and A1085	Trunk Roa			rane					Sunday	Average		
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23.00																								
12 hr	90	90	90	90	180	180	90	90	90	90	180	180	90	90	90	90	180	180	90	90	90	90	180	180
12 hr	90	90	90	90	180	180	90	90	90	90	180	180	90	90	90	90	180	180	90	90	90	90	180	180
18 hr	90	90	90	90	180	180	90	90	90	90	180	180	90	90	90	90	180	180	90	90	90	90	180	180
24 NF	90	90	90	90	180	180	90	90	90	90	180	180	90	90	90	90	180	180	90	90	90	90	180	180

HGV Trip Generation

- 247 Two-way HGV Movements If 75% waste input is bulked
- 10 hour working day for assessment purposes

Percentage of HGV Traffic 97% Link 1 73% Link 2 21% Link 3 73% Link 4 3% Link 5 3% Link 6 21% Link 7 2% Link 8

											REC I	HGV Traffic	Flows											
												Link 3												
											3 between	A174 and /	A1085 Jun											
Time				y Average		141				Average		***			urday Aver			***				Average	-	
Begin		bound	South			Way		nbound		nbound		Way		bound		bound		Way		nbound		nbound		Way
00.00	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
01.00						-														-				
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07.00	_	_				-	_	-	_	_					_						_			
08.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
09.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
10.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
11.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
12.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
13.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
14.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
15.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
16.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
17.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
18.00																								
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12 hr	26	26	26	26	52	52	26	26	26	26	52	52	26	26	26	26	52	52	26	26	26	26	52	52
18 hr	26	26	26	26	52	52	26	26	26	26	52	52	26	26	26	26	52	52	26	26	26	26	52	52
24 hr	26	26	26	26	52	52	26	26	26	26	52	52	26	26	26	26	52	52	26	26	26	26	52	52

											REC I	HGV Traffic	Flows											
												Link 4												
											between	41053 and	A171 Junc											
Time	F			y Average	T	18/	F			Average bound	T	10/	F	Sa bound	turday Aver		T	14/	F	bound		Average tbound	Tour	18/
Begin	Total	bound HGV's	Total	tbound HGV's	Total	Way HGV's	Total	bound HGV's		HGV's		Way HGV's		HGV's	Total	tbound HGV's		Way HGV's	Total	HGV's		HGV's	Total	Way
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10.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
11.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
12.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
13.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
14.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
15.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
16.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
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12 hr	90	90	90	90	180	180	90	90	90	90	180 180	180	90	90	90	90	180	180	90	90	90	90	180 180	180 180
18 hr 24 hr	90	90	90	90	180 180	180 180	90	90	90 90	90	180	180	90 90	90	90	90	180	180 180	90	90	90	90	180	180
24 nr	90	90	90	90	180	180	90	90	90	90	180	180	90	90	90	90	180	180	90	90	90	90	180	180

											REC I	HGV Traffic	Flows											
												Link 5												
								A108			en junctio	n with A10	53 and jun	ction with N	lormanby	Road								
Time				y Average						Average					turday Aver							Average		
Begin		bound		bound		Way		bound		tbound		Way		bound		bound		Way		bound		tbound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
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09.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
10.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
11.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
12.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
13.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
14.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
15.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
16.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
17.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
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12 hr	3	3	3	3	6	6	3	3	3	3	6	6	3	3	3	3	6	6	3	3	3	3	6	6
18 hr	3	3	3	3	6	6	3	3	3	3	6	6	3	3	3	3	6	6	3	3	3	3	6	6
24 hr	3	3	3	3	6	6	3	3	3	3	6	6	3	3	3	3	6	6	3	3	3	3	6	6

											REC I	IGV Traffic	Flows											
												Link 6												
							A1085 Tru	nk Road / L	onglands l	Road, betw	een junctio	on with No	manby Ro	ad and jun	ction with	A171 Cargo	Fleet Lan	е						
Time				y Average						Average					turday Aver							Average		
Begin		bound		tbound		Way		bound		tbound		Way		bound		tbound		Way		bound		tbound		Way
00.00	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
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03.00																								
04.00																								
05.00																								
06.00																								
07.00																								
08.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
09.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
10.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
11.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
12.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
13.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
14.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
15.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
16.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
17.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
18.00																								
19.00																								
20.00																								
21.00																								
22.00																								
23.00																								
401									•															_
12 hr	3	3	3	3	6	6	3	3	3	3	6	6	3	3	3	3	6	6	3	3	3	3	6	6
18 hr	3	3	3	3	6	6	3	3	3	3	6	6	3	3	3	3	6	6	3	3	3	3	б	6
24 hr	3	3	3	3	6	6	3	3	3	3	6	6	3	3	3	3	6	6	3	3	3	3	6	6

											REC I	HGV Traffic	Flows											
												Link 7												
											174 between	en the A10	53 and A1											
Time				y Average						Average		147			turday Aver							Average		
Begin	East Total	bound HGV's	Total	tbound HGV's	Total	Way HGV's	Total	tbound HGV's	Total	tbound HGV's	Total	Way HGV's	Total	bound HGV's	Total	tbound HGV's	Total	Way HGV's	Total	bound HGV's	Total	tbound HGV's	Total	Way HGV's
00.00	Total	HGV S	rotai	HGV S	rotai	HGVS	Total	HGV S	Total	HGV S	Total	HGV S	Total	HGV S	rotai	HGVS	rotai	HGV S	Total	HGV S	rotai	HGVS	rotai	HGVS
01.00		_		_														_						
02.00		_		_														_						
03.00																								
04.00																		_						
05.00				_																				
06.00																								
07.00																								
08.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
09.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
10.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
11.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
12.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
13.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
14.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
15.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
16.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
17.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
18.00																								
19.00																								
20.00																								
21.00																								
22.00																								
23.00																								
12 hr	25	25	25	25	51	51	25	25	25	25	51	51	25	25	25	25	51	51	25	25	25	25	51	51
18 hr	25	25	25	25	51	51	25	25	25	25	51	51	25	25	25	25	51	51	25	25	25	25	51	51
24 hr	25	25	25	25	51	51	25	25	25	25	51	51	25	25	25	25	51	51	25	25	25	25	51	51

											REC I	HGV Traffic	Flows											
												Link 8												
											he A1085 t	runk Road	and Wave	ney Road ju	ınction									
Time				y Average						Average					turday Aver							Average		
Begin		bound		nbound		Way		nbound		nbound		Way		bound		nbound		Way		bound		bound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00																								
01.00																								
02.00																								
03.00																								
04.00																								
05.00																								
06.00																								
07.00																								
08.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.00																								
19.00																								
20.00																								
21.00																								
22.00																								
23.00																								<u> </u>
12 hr	2	2	2	2	4	4	2	2	2	2	4	4	2	2	2	2	4	4	2	2	2	2	4	4
18 hr	2	2	2	2	4	4	2	2	2	2	4	4	2	2	2	2	4	4	2	2	2	2	4	4
24 hr	2	2	2	2	4	4	2	2	2	2	4	4	2	2	2	2	4	4	2	2	2	2	4	4

											REC I	HGV Traffic	Flows											
												Link 9												
			14/1-4								oad betwe	en A1042 a	nd Thrush	Road junct	tions						C	A		
Time		oound		y Average bound				bound		Average tbound		Way		Sat bound	turday Aver	age bound				bound		Average bound		
Begin						Way												Way						Way
00.00	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
01.00																								
2.00																								
03.00																								
04.00																								
05.00																								
06.00																								
07.00																								
08.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.00																								
19.00																								
20.00																								
21.00																								
22.00																								
23.00																								
										-														
12 hr	2	2	2	2	5	5	2	2	2	2	5	5	2	2	2	2	5	5	2	2	2	2	5	5
18 hr	2	2	2	2	5	5	2	2	2	2	5	5	2	2	2	2	5	5	2	2	2	2	5	5
24 hr	2	2	2	2	5	5	2	2	2	2	5	5	2	2	2	2	5	5	2	2	2	2	5	5





Annex J

Staff Distribution Data

	E02002517 :			% Route	to Site				Trunk	Pero	centage of S	Staff		
usual residence : 2011 super output area - middle layer	Redcar and			A1053 /	A1053 /			Trunk	Road	A1053/	A1053 /			
madic layer	Cleveland 003	Trunk Road	Trunk Road	A174	A174	A1053 /	Longlands Road	Road	North /	A174	A174	A1053 /	Longlands Road /	
E02001013 : Bolton 030	1	North	North / A1042	North	South	A66	/ Trunk Road	North 0	A1042	North 0	South 1	A66	Trunk Road 0	
E02001104 : Oldham 007	1				100% 100%			0	0	0	1	0	0	
E02001110 : Oldham 013	1				100%			0	0	0	1	0	0	
E02001118 : Oldham 021	1				100%			0	0	0	1	0	0	
E02001263 : Trafford 005 E02001514 : Barnsley 006	1				100% 100%			0	0	0	1	0	0	
E02001567 : Doncaster 029	1				100%			0	0	0	1	0	0	
E02001593 : Rotherham 016	1				100%			0	0	0	1	0	0	
E02001646 : Sheffield 036	1				100%			0	0	0	1	0	0	
E02001655 : Sheffield 045 E02001682 : Gateshead 001	1				100%	4000/		0	0	0	1	0	0	
E02001662 : Gateshead 001 E02001684 : Gateshead 003	3					100% 100%		0	0	0	0	3	0	
E02001686 : Gateshead 005	1					100%		0	0	0	0	1	0	
E02001691 : Gateshead 010	1					100%		0	0	0	0	1	0	
E02001697 : Gateshead 016	1					100%		0	0	0	0	1	0	
E02001698 : Gateshead 017 E02001708 : Newcastle upon Tyne 001	1					100% 100%		0	0	0	0	2	0	
E02001709 : Newcastle upon Tyne 002	1					100%		0	0	0	0	1	0	
E02001711 : Newcastle upon Tyne 004	1					100%		0	0	0	0	1	0	
E02001712 : Newcastle upon Tyne 005	1					100%		0	0	0	0	1	0	
E02001721 : Newcastle upon Tyne 014 E02001726 : Newcastle upon Tyne 019	2					100%		0	0	0	0	2	0	
E02001720 : Newcastle upon Tyne 019	1					100% 100%		0	0	0	0	1	0	
E02001730 : Newcastle upon Tyne 023	2					100%		0	0	0	0	2	0	
E02001733 : Newcastle upon Tyne 026	2					100%		0	0	0	0	2	0	
E02001740 : North Tyneside 003	2					100%		0	0	0	0	2	0	
E02001743 : North Tyneside 006 E02001746 : North Tyneside 009	1					100% 100%		0	0	0	0	1	0	
E02001746 : North Tyneside 009 E02001747 : North Tyneside 010	3					100%		0	0	0	0	3	0	
E02001748 : North Tyneside 011	2					100%		0	0	0	0	2	0	
E02001754 : North Tyneside 017	1					100%		0	0	0	0	1	0	
E02001757 : North Tyneside 020	3					100%		0	0	0	0	3	0	
E02001758 : North Tyneside 021 E02001759 : North Tyneside 022	1	-				100% 100%		0	0	0	0	1	0	
E02001739 : North Tyneside 022 E02001762 : North Tyneside 025	1					100%		0	0	0	0	1	0	
E02001766 : North Tyneside 029	2					100%		0	0	0	0	2	0	
E02001767 : North Tyneside 030	1					100%		0	0	0	0	1	0	
E02001768 : South Tyneside 001 E02001770 : South Tyneside 003	2					100%		0	0	0	0	1	0	
E02001770 : South Tyneside 003 E02001773 : South Tyneside 006	1					100% 100%		0	0	0	0	1	0	
E02001774 : South Tyneside 007	1					100%		0	0	0	0	1	0	
E02001777 : South Tyneside 010	1					100%		0	0	0	0	1	0	
E02001780 : South Tyneside 013	1					100%		0	0	0	0	1	0	
E02001781 : South Tyneside 014 E02001782 : South Tyneside 015	1					100%		0	0	0	0	2	0	
E02001762 : South Tyneside 013	1					100% 100%		0	0	0	0	1	0	
E02001786 : South Tyneside 019	4					100%		0	0	0	0	4	0	
E02001788 : South Tyneside 021	3					100%		0	0	0	0	3	0	
E02001789 : South Tyneside 022	4					100%		0	0	0	0	1	0	
E02001790 : South Tyneside 023 E02001791 : Sunderland 001	2					100% 100%		0	0	0	0	2	0	
E02001792 : Sunderland 002	1					100%		0	0	0	0	1	0	
E02001793 : Sunderland 003	1					100%		0	0	0	0	1	0	
E02001795 : Sunderland 005 E02001797 : Sunderland 007	2					100%		0	0	0	0	2	0	
E02001797 : Sunderland 007 E02001798 : Sunderland 008	2					100% 100%		0	0	0	0	2	0	
E02001800 : Sunderland 010	1					100%		0	0	0	0	1	0	
E02001804 : Sunderland 014	2					100%		0	0	0	0	2	0	
E02001805 : Sunderland 015	2					100%		0	0	0	0	2	0	
E02001806 : Sunderland 016 E02001807 : Sunderland 017	2					100%		0	0	0	0	2	0	
E02001809 : Sunderland 019	1					100%		0	0	0	0	1	0	
E02001810 : Sunderland 020	1					100%		0	0	0	0	1	0	
E02001811 : Sunderland 021	2					100%		0	0	0	0	2	0	
E02001812 : Sunderland 022 E02001815 : Sunderland 025	5 2					100%		0	0	0	0	5 2	0	
E02001816 : Sunderland 026	2					100%		0	0	0	0	2	0	
E02001818 : Sunderland 028	1					100%		0	0	0	0	1	0	
E02001819 : Sunderland 029	1					100%		0	0	0	0	1	0	
E02001820 : Sunderland 030 E02001821 : Sunderland 031	1	-				100% 100%		0	0	0	0	1	0	
E02001822 : Sunderland 032	2					100%		0	0	0	0	2	0	
E02001838 : Birmingham 012	1				100%			0	0	0	1	0	0	
E02002098 : Solihull 018	1				100%			0	0	0	1	0	0	
E02002151 : Wolverhampton 003 E02002271 : Kirklees 001	1	-			100% 100%			0	0	0	1	0	0	
E02002271 : Kirklees 001 E02002329 : Kirklees 059	1				100%			0	0	0	1	0	0	
E02002330 : Leeds 001	1				100%			0	0	0	1	0	0	
E02002341 : Leeds 012	1				100%			0	0	0	1	0	0	
E02002345 : Leeds 016	1				100%			0	0	0	1	0	0	
E02002396 : Leeds 067 E02002434 : Leeds 105	1				100% 100%			0	0	0	1	0	0	
E02002460 : Wakefield 023	1				100%			0	0	0	1	0	0	
E02002472 : Wakefield 035	1				100%			0	0	0	1	0	0	
E02002475 : Wakefield 038	1				100%			0	0	0	1	0	0	
E02002483 : Hartlepool 001 E02002484 : Hartlepool 002	29 14				100%			0	0	0	29	0	0	
E02002484 : Hartlepool 002 E02002485 : Hartlepool 003	16				100% 100%			0	0	0	14 16	0	0	
	9				100%			0	0	0	9	0	0	
E02002487 : Hartlepool 005					100%			0	0	0	19	0	0	
E02002488 : Hartlepool 006	19			_	100%			0	0	0	14	0	0	
E02002488 : Hartlepool 006 E02002489 : Hartlepool 007	14								-	-		-	-	
E02002488 : Hartlepool 006 E02002489 : Hartlepool 007 E02002490 : Hartlepool 008	14 13				100%			0	0	0	13	0	0	
E02002488 : Hartlepool 006 E02002489 : Hartlepool 007	14				100% 100%			0	0	0	13	0	0	
E02002488 : Hartlepool 006 E02002489 : Hartlepool 007 E02002490 : Hartlepool 008 E02002491 : Hartlepool 009	14 13 13				100%									
E02002488 : Hartlepool 006 E02002489 : Hartlepool 007 E02002490 : Hartlepool 008 E02002490 : Hartlepool 008 E02002491 : Hartlepool 009 E02002492 : Hartlepool 010 E02002493 : Hartlepool 011 E02002494 : Hartlepool 011	14 13 13 19 24 13				100% 100% 100%			0 0 0	0 0 0	0 0 0	13 19 24 13	0 0 0	0 0 0	
E02002488 : Hartlepool 006 E02002489 : Hartlepool 007 E02002490 : Hartlepool 008 E02002491 : Hartlepool 009 E02002491 : Hartlepool 010 E02002493 : Hartlepool 010 E02002494 : Hartlepool 011 E02002494 : Hartlepool 012 E02002496 : Middlesbrough 001	14 13 13 19 24 13 69				100% 100% 100% 100%	100%		0 0 0 0	0 0 0 0	0 0 0 0	13 19 24 13 0	0 0 0 0 0 69	0 0 0 0	
E02002488 : Hartlepool 006 E02002489 : Hartlepool 007 E02002490 : Hartlepool 008 E02002490 : Hartlepool 008 E02002491 : Hartlepool 009 E02002492 : Hartlepool 010 E02002493 : Hartlepool 011 E02002494 : Hartlepool 011	14 13 13 19 24 13				100% 100% 100% 100%	100% 50% 50%	50% 50%	0 0 0	0 0 0	0 0 0	13 19 24 13	0 0 0	0 0 0	

E02002500 : Middlesbrough 005	72					50%	50%	0	0	0	0	36	36
E02002501 : Middlesbrough 006	83						100%	0	0	0	0	0	83
E02002502 : Middlesbrough 007	98						100%	0	0	0	0	0	98
E02002503 : Middlesbrough 008	53					100%		0	0	0	0	53	0
E02002504 : Middlesbrough 009	95					100%		0	0	0	0	95	0
E02002505 : Middlesbrough 010	60						100%	0	0	0	0	0	60
E02002506 : Middlesbrough 011	36						100%	0	0	0	0	0	36
E02002507 : Middlesbrough 012	68				33%	33%	33%	0	0	0	23	23	23
E02002508 : Middlesbrough 013	63				50%		50%	0	0	0	32	0	32
E02002509 : Middlesbrough 014	62				50%		50%	0	0	0	31	0	31
E02002510 : Middlesbrough 015	53				100%			0	0	0	53	0	0
E02002512 : Middlesbrough 017	94				10070		100%	0	0	0	0	0	94
E02002513 : Middlesbrough 018	89						100%	0	0	0	0	0	89
E02002514 : Middlesbrough 019	159						100%		0	0	0	0	
E02002514 : Middlesbrough 019 E02002515 : Redcar and Cleveland 001	311	500/	500/				100%	0					159
		50%	50%					156	156	0	0	0	0
E02002516 : Redcar and Cleveland 002	273	50%	50%					137	137	0	0	0	0
E02002517 : Redcar and Cleveland 003	349	50%	50%					175	175	0	0	0	0
E02002518 : Redcar and Cleveland 004	557		100%					0	557	0	0	0	0
E02002519 : Redcar and Cleveland 005	319		100%					0	319	0	0	0	0
E02002520 : Redcar and Cleveland 006	540		100%					0	540	0	0	0	0
E02002521 : Redcar and Cleveland 007	142		100%					0	142	0	0	0	0
E02002523 : Redcar and Cleveland 009	177						100%	0	0	0	0	0	177
E02002524 : Redcar and Cleveland 010	176		100%					0	176	0	0	0	0
E02002525 : Redcar and Cleveland 011	289			50%	50%			0	0	145	145	0	0
E02002526 : Redcar and Cleveland 012	253		100%					0	253	0	0	0	0
E02002527 : Redcar and Cleveland 013	90		100%					0	90	0	0	0	0
E02002529 : Redcar and Cleveland 015	172				50%		50%	0	0	0	86	0	86
E02002530 : Redcar and Cleveland 016	123		100%		3070		3070	0	123	0	0	0	0
E02002530 : Redcar and Cleveland 018	130		100/0		100%			0	0	0	130	0	0
E02002532 : Redcar and Cleveland 019	150	—											
E02002533 : Redcar and Cleveland 019 E02002534 : Redcar and Cleveland 020	186	-			100%			0	0	0	150	0	0
E02002534 : Redcar and Cleveland 020 E02002535 : Stockton-on-Tees 001		—			100%			0	0	0	186	0	0
	57	—				100%		0	0	0	0	57	0
E02002536 : Stockton-on-Tees 002	37	L				100%		0	0	0	0	37	0
E02002537 : Stockton-on-Tees 003	37	<u> </u>				100%		0	0	0	0	37	0
E02002538 : Stockton-on-Tees 004	36					100%		0	0	0	0	36	0
E02002539 : Stockton-on-Tees 005	55				33%	33%	33%	0	0	0	18	18	18
E02002540 : Stockton-on-Tees 006	46					100%		0	0	0	0	46	0
E02002541 : Stockton-on-Tees 007	44					100%		0	0	0	0	44	0
E02002542 : Stockton-on-Tees 008	36					100%		0	0	0	0	36	0
E02002543 : Stockton-on-Tees 009	36					100%		0	0	0	0	36	0
E02002544 : Stockton-on-Tees 010	43					100%		0	0	0	0	43	0
E02002545 : Stockton-on-Tees 011	31					100%		0	0	0	0	31	0
E02002546 : Stockton-on-Tees 012	24					100%		0	0	0	0	24	0
E02002547 : Stockton-on-Tees 013	40					100%		0	0	0	0	40	0
E02002547 : Glockton-on-Tees 014	43					100%		0	0	0	0	43	0
E02002549 : Stockton-on-Tees 015	49										0		
		l				100%		0	0	0	_	49	0
E02002550 : Stockton-on-Tees 016	32					100%		0	0	0	0	32	0
E02002551 : Stockton-on-Tees 017	31					100%		0	0	0	0	31	0
E02002552 : Stockton-on-Tees 018	52					100%		0	0	0	0	52	0
E02002553 : Stockton-on-Tees 019	54				100%			0	0	0	54	0	0
E02002554 : Stockton-on-Tees 020	26				100%			0	0	0	26	0	0
E02002555 : Stockton-on-Tees 021	81				100%			0	0	0	81	0	0
E02002556 : Stockton-on-Tees 022	109				100%			0	0	0	109	0	0
E02002557 : Stockton-on-Tees 023	194				100%			0	0	0	194	0	0
E02002558 : Stockton-on-Tees 024	94				100%			0	0	0	94	0	0
E02002559 : Darlington 001	13					100%		0	0	0	0	13	0
E02002560 : Darlington 002	8					100%		0	0	0	0	8	0
E02002561 : Darlington 003	13					100%		0	0	0	0	13	0
E02002562 : Darlington 004	8					100%		0	0	0	0	8	0
E02002563 : Darlington 005	6					100%		0	0	0	0	6	0
E02002564 : Darlington 006	5					100%		0	0	0	0	5	0
E02002565 : Darlington 007	11					100%		0	0	0	0	11	0
E02002566 : Darlington 008	7					100%		0	0	0	0	7	0
E02002567 : Darlington 009	5					100%		0	0	0	0	5	0
E02002568 : Darlington 010	12					100%					0	12	0
E02002569 : Darlington 011	25												
								0	0	0			
E02002570 : Darlington 012						100%		0	0	0	0	25	0
E02002571 : Darlington 013	6					100% 100%		0 0 0	0 0	0	0	25 6	0
	7					100% 100% 100%		0 0 0	0 0 0 0	0 0 0	0 0 0	25 6 7	0 0 0
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E02004302 : County Durham 009	2				100%		0	0	0
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E02004316 : County Durham 031	2				100%		0	0	0
E02004317 : County Durham 038	2				100%		0	0	0
E02004318 : County Durham 041	3				100%		0	0	0
E02004319 : County Durham 044	3				100%		0	0	0
E02004321 : County Durham 017	1				100%		0	0	0
E02004322 : County Durham 018	3				100%		0	0	0
E02004323 : County Durham 021	3				100%		0	0	0
E02004324 : County Durham 025	8				100%		0	0	0
E02004325 : County Durham 032	1				100%	1	0	0	0
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E02004326 : County Durham 034	1				100%		0	0	0
E02004327 : County Durham 036	2				100%		0	0	0
E02004328 : County Durham 035	7				100%		0	0	0
E02004329 : County Durham 037	6					 			
					100%	 	0	0	0
E02004330 : County Durham 039	7				100%		0	0	0
E02004331 : County Durham 040	6				100%		0	0	0
E02004332 : County Durham 043	7				100%	1	0	0	0
E02004332 : County Durham 047						 			
	4				100%		0	0	0
E02004334 : County Durham 048	16				100%		0	0	0
E02004335 : County Durham 049	2				100%	1	0	0	0
E02004336 : County Durham 050	5					<u> </u>			_
					100%	-	0	0	0
E02004337 : County Durham 052	5				100%		0	0	0
E02004338 : County Durham 053	6				100%		0	0	0
E02004339 : County Durham 054	11				100%	1	0	0	0
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E02004340 : County Durham 059	8				100%		0	0	0
E02004341 : County Durham 060	7				100%	I	0	0	0
E02004343 : County Durham 062	6				100%	1	0	0	0
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E02004344 : County Durham 063	4				100%		0	0	0
E02004345 : County Durham 064	10				100%		0	0	0
E02004346 : County Durham 065	4				100%		0	0	0
	1					t			
E02004347 : County Durham 066					100%	-	0	0	0
E02004348 : County Durham 042	2				100%		0	0	0
E02004350 : County Durham 046	2				100%		0	0	0
E02004351 : County Durham 051	4				100%		0	0	0
				 		 			
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E02005797 : Scarborough 003		31										
E02005799 Scarborough 006	E02005797 : Scarborough 003	11					0	_		0	0	0
E02005800 : Scarborough 006	E02005798 : Scarborough 004	8	100%				0	8	0	0	0	0
E02005802 : Scarborough 008	E02005799 : Scarborough 005	2	100%				0	2	0	0	0	0
E02005807 : Searborough 013	E02005800 : Scarborough 006	2	100%				0	2	0	0	0	0
E02005808 : Scarborough 014	E02005802 : Scarborough 008	1	100%				0	1	0	0	0	0
E02005816 : Selby 008	E02005807 : Scarborough 013	1	100%				0	1	0	0	0	0
E02005830 : Ashfield 012	E02005808 : Scarborough 014	1	100%				0	1	0	0	0	0
E02005840 : Bassetlaw 006	E02005816 : Selby 008	1		100%			0	0	0	1	0	0
E02005899 : Newark and Sherwood 007	E02005830 : Ashfield 012	1		100%			0	0	0	1	0	0
E02006226 : Tamworth 010	E02005840 : Bassetlaw 006	1		100%			0	0	0	1	0	0
E02006226 : Tamworth 010 1 100% 0 0 1 0 0 E02006247 : Ipswich 003 1 100% 0 0 0 1 0 0 E02006427 : Ipswich 003 1 100% 0 0 0 1 0 0 E02006812 : Surrey Heath 006 1 100% 0 0 0 1 0 0 E02006812 : Wiltshire 032 1 100% 0 0 0 0 0 1 0 0 E02006812 : Redear and Cleveland 021 147 100% 0 0 0 171 0 0 E02006862 : Gateshead 028 2 100% 0 0 0 0 0 0 2 0 E02006861 : Leeds 110 1 100% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E02005899 : Newark and Sherwood 007	1		100%			0	0	0	1	0	0
E02006247 : pswich 003	E02006141 : East Staffordshire 011	1		100%			0	0	0	1	0	0
E02006421 : Surrey Heath 006 1 100% 0 0 0 1 0 0 E02006815 : Willshire 032 1 100% 0 0 0 1 0 0 E02006811 : Redcar and Cleveland 021 147 100% 0 0 0 147 0 0 E02006812 : Redcar and Cleveland 021 147 100% 0 0 0 0 147 0 0 E02006842 : Gateshead 028 2 100% 0 0 0 0 0 2 0 0 0 0 0 2 0	E02006226 : Tamworth 010	1		100%			0	0	0	1	0	0
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E02006811 : Middlesbrough 020	E02006421 : Surrey Heath 006	1		100%			0	0	0	1	0	0
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E02006842 : Gateshead 028 2 100% 0 1 1 1 1 0 0 0 0 0 0	E02006811 : Middlesbrough 020	171		100%			0	0	0	171	0	0
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E02006870 : Ryedale 008	E02006861 : Leeds 110	1		100%			0	0	0	1	0	0
E02006999: Hartlepool 014 44 100% 0 0 0 44 0 E02006910: Redcar and Cleveland 022 301 50% 50% 0 0 0 151 151 W02000068: Flintshire 011 1 100% 0 0 0 1 0 0 W02000157: Carmarthenshire 016 1 100% 0 0 0 1 0 0 W02000195: Swansea 028 1 100% 0 0 0 1 0 0 W02000288: Merthyr Tydfil 004 1 100% 0 0 0 1 0 0 W02000288: Merthyr Tydfil 006 1 100% 0 0 0 1 0 0 W02000421: Ceredigion 011 1 100% 0 0 0 0 1 0 0 8,663 467 2743 145 2264 1752 1295	E02006866 : North Kesteven 013	1		100%			0	0	0	1	0	0
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W02000195 : Swansea 028 1 100% 0 0 0 1 0 0 W02000286 : Merthyr Tydfil 004 1 100% 0 0 0 1 0 0 W02000288 : Merthyr Tydfil 006 1 100% 0 0 0 1 0 0 W02000421 : Ceredigion 011 1 100% 0 0 0 1 0 0 8,663 467 2743 145 2264 1752 1295	W02000068 : Flintshire 011	1		100%			0	0	0	1	0	0
W02000286 : Merthyr Tydfii 004	W02000157 : Carmarthenshire 016	1		100%			0	0	0	1	0	0
W02000288 : Merthyr Tydfii 006 1 100% 0 0 1 0 0 W02000421 : Ceredigion 011 1 100% 0 0 0 1 0 0 8,663 467 2743 145 2264 1752 1295	W02000195 : Swansea 028	1		100%			0	0	0	1	0	0
W02000421: Ceredigion 011 1 100% 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0	W02000286 : Merthyr Tydfil 004	1		100%			0	0	0	1	0	0
8,663 467 2743 145 2264 1752 1295	W02000288 : Merthyr Tydfil 006	1		100%			0	0	0	1	0	0
	W02000421 : Ceredigion 011	1		100%			0	0	0	1	0	0
5.4% 31.7% 1.7% 26.1% 20.2% 14.9%		8,663					467	2743	145	2264	1752	1295
							5.4%	31.7%	1.7%	26.1%	20.2%	14.9%





Annex K

Staff Traffic Flows

											Office	Staff Traffic	c Flows													
												Link 1														
			Weekda	y Average					Yearly	A1085 T Average	runk Road	South of A	ccess Ro	ındabout Sat	turday Aver	rage				Sunday Average						
Time Begin	North	bound	South	nbound	oound Two		Northbound		Southbound		Two Way		Northbound		Southbound		Two Way		Northbound		Southbound		Two Way			
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's		
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12 hr	3	0	3	0	6	0	3	0	3	0	6	0	3	0	3	0	6	0	3	0	3	0	6	0		
18 hr	3	0	3	0	6	0	3	0	3	0	6	0	3	0	3	0	6	0	3	0	3	0	6	0		
24 hr	3	0	3	0	6	0	3	0	3	0	6	0	3	0	3	0	6	0	3	0	3	0	6	0		

											Office	Staff Traffic	Flows											
										A1053 be	tween A66	and A1085	Trunk Roa	d iunction										
T:			Weekda	y Average					Yearly.	Average				Sa	turday Aver	rage					Sunday	Average		
Time Begin	East	bound	West	bound	Two	Way	East	bound	West	bound	Two	Way	East	oound	Westbound		Two Way		Eastbound		West	bound	Two	Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
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12 hr	1	0	1	0	2	0	1	0	1	0	2	0	1	0	1	0	2	0	1	0	1	0	2	0
18 hr	1	0	1	0	2	0	1	0	1	0	2	0	1	0	1	0	2	0	1	0	1	0	2	0
24 hr	1	0	1	0	2	0	1	0	1	0	2	0	1	0	1	0	2	0	1	0	1	0	2	0

Staff Trip Generation

- 5 Total staff on site per day 10 two-way staff movements

Percentage of Staff Traffic 63.0% Link 1 20.2% Link 2 27.8% Link 3 20.2% Link 4 14.9% Link 5 14.9% Link 6 26.1% Link 7 31.7% Link 8

All 3 operations will work 24/7 with a 5 shift pattern requiring 80-100 full time employees.

- Admin Staff

 08:00 arrivals

 17:00 departures

 5 staff working office hours

											Office	Staff Traffi	c Flows											
												Link 3												
										A105	3 between	A174 and	A1085 Jun	ctions										
Time			weekda	y Average	-					Average		147			turday Ave	age		147				Average		
Begin	Nortr Total	bound		nbound	Total	Way		nbound		bound		Way		bound		nbound		Way		nbound		nbound		Way
00.00	lotai	HGV's	Total	HGV's	i otai	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
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18 hr	1	0	1	0	3	0	1	0	1	0	3	0	1	0	1	0	3	0	1	0	1	0	3	0
	1	0	1	0	3	0	1	0	1	0	3	0	1	0	1	0	3	0	1	0	1	0	3	0
24 hr	1	0	1	0	3	0	1	0	1	0	3	0	1	0	1	0	3	0	1	0	1	0	3	П

											Office	Staff Traffi	c Flows											
												Link 4												
											between	A1053 and	A171 Junc	tions										
Time				y Average		147				Average	_	141			turday Ave		_	147				Average		
Begin		bound		bound		Way		bound		bound		Way		bound		tbound		Way		bound		tbound		Way
00.00	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
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18 hr	1	0	1	0	2	0	1	0	1	0	2	0	1	0	1	0	2	0	1	0	1	0	2	0
24 hr	1	0	1	0	2	0	1	0	1	0	2	0	1	0	1	0	2	0	1	0	1	0	2	0

											Office	Staff Traffi	c Flows											
												Link 5												
								A10	85 Trunk R	oad, betwe	en junctio	n with A10	53 and june	ction with h	ormanby	Road								
Time				y Average						Average					turday Ave							Average		
Begin		bound		tbound		Way		bound		bound		Way		bound		bound		Way		bound		tbound		Way
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18 hr	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
24 hr	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0

											Office	Staff Traffi	c Flows											
												Link 6												
			18/				A1085 Trui	nk Road / L	onglands I	Road, betw	een junction	on with Nor	manby Ro	ad and jun	ction with	A171 Carg	Fleet Lar	ie			O. and an			
Time				y Average		***				Average					turday Ave							Average		
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												Link 7												
											174 between	en the A10	53 and A17	71										
Time				y Average						Average					turday Ave							Average		
Begin		bound		bound		Way		bound		bound		Way		bound		tbound		Way		bound		tbound		Way
00.00	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
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24 hr	1	0	1	0	3	0	1	0	1	0	3	0	1	0	1	0	3	0	1	0	1	0	3	0

											Office	Staff Traffi	c Flows											
												Link 8												
									A1042	between t	he A1085 t	runk Road	and Wave	ney Road ji	unction									
Time				y Average						Average					turday Ave							Average		
Begin		bound		nbound		Way		bound		bound		Way		bound		hbound		Way		nbound		nbound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
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18 hr	2	0	2	0	3	0	2	0	2	0	3	0	2	0	2	0	3	0	2	0	2	0	3	0
24 hr	2	0	2	0	3	0	2	0	2	0	3	0	2	0	2	0	3	0	2	0	2	0	3	0

											Office	Staff Traffi	c Flows											
												Link 9												
									A10	85 Trunk R	oad betwe	en A1042 a	nd Thrush	Road junc	tions									
Time				y Average					Yearly	Average				. Sa	turday Aver							Average		
Begin	Eastl Total	oound HGV's	West Total	tbound HGV's	Total	Way HGV's	East Total	bound HGV's	Wes Total	tbound HGV's	Total	Way HGV's	East Total	bound HGV's	West Total	bound HGV's	Total	Way HGV's	East Total	bound HGV's	Total	bound HGV's	Total	Way HGV's
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18 hr	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
24 hr	0	0	0	0	1	0	1 0	1 0	0	0	1 1	0	0	0	0	0	1	0	1 0	0	0	0	1	0

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			Weekda	y Average					Yearly.	Average	runk reouc	ooutii oi z	iccoss rec		turday Aver	rage					Sunday	Average		
Time Begin	North	bound	South	nbound	Two	Way	North	nbound	South	bound	Two	Way	North	bound	South	nbound	Two	Way	North	bound	South	nbound	Two	Way
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18 hr	30	0	30	0	60	0	30	0	30	0	60	0	30	0	30	0	60	0	30	0	30	0	60	0
24 hr	30	0	30	0	60	0	30	0	30	0	60	0	30	0	30	0	60	0	30	0	30	0	60	0

											Operation	nal Staff Tra	affic Flows											
												Link 2												
			18/	y Average					Vb	A1053 bet Average	tween A66	and A1085	Trunk Roa		turday Aver						0	Average		
Time	Foct	bound		bound	Two	Way	Eact	bound		bound	Twe	Way	Eact	oound		age bound	Two	Way	Foot	bound		bound	Two	May
Begin	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
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18 hr	10	0	10	0	19	0	10	0	10	0	19	0	10	0	10	0	19	0	10	0	10	0	19	0
24 hr	10	0	10	0	19	0	10	0	10	0	19	0	10	0	10	0	19	0	10	0	10	0	19	0

Staff Trip Generation

- 48 Total staff on site per day 95 two-way staff movements

- 4 shifts 24 people per shift

- Percentage of Staff Traffic 63.0% Link 1 20.2% Link 2 27.8% Link 3 20.2% Link 4 14.9% Link 5 14.9% Link 6 26.1% Link 7 31.7% Link 8 5.4% Link 9
- 3 operations
 4 shift pattern
 100 full time staff (worst case)

All 3 operations will work 24/7 with a 5 shift pattern requiring 80-100 full time employees.

- Admin Staff

 08:00 arrivals

 17:00 departures

 5 staff working office hours

											Operation	nal Staff Tra	affic Flows											
												Link 3												
											3 between	A174 and	A1085 Jun	ctions										
Time				y Average						Average					turday Ave							Average		
Begin		bound		nbound		Way		nbound		nbound		Way		bound		nbound		Way		bound		bound		Way
00.00	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
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18 hr	13	0	13	0	26	0	13	0	13	0	26	0	13	0	13	0	26	0	13	0	13	0	26	0
24 hr	13	0	13	0	26	0	13	0	13	0	26	0	13	0	13	0	26	0	13	0	13	0	26	0

											Operation	nal Staff Tra	affic Flows											
												Link 4												
											between /	A1053 and	A171 Junc	ions										
Time				/ Average		147				Average	-				turday Aver							Average		
Begin	East	oound	west	bound	IWO	Way		bound		bound		Way		bound	Total	tbound HGV's		Way		bound	Total	tbound		Way
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18 hr	10	0	10	0	19	0	10	0	10	0	19	0	10	0	10	0	19	0	10	0	10	0	19	0
24 hr	10	0	10	0	19	0	10	0	10	0	19	0	10	0	10	0	19	0	10	0	10	0	19	0

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												Link 5												
			18/	y Average				A10	85 Trunk R	Road, betwe Average	en junctio	n with A10	53 and june	ction with N	lormanby turday Avei	Road					Cde.			
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18 hr	7	0	7	0	14	0	7	0	7	0	14	0	7	0	7	0	14	0	7	0	7	0	14	0
24 hr	7	0	7	0	14	0	7	0	7	0	14	0	7	0	7	0	14	0	7	0	7	0	14	0

											Operation	nal Staff Tr	affic Flows											
												Link 6												
							A1085 Trui	nk Road / L	onglands I	Road, betw	een junction	on with No	rmanby Ro	ad and jun	ction with	A171 Carg	Fleet Lar	е						
Time				y Average		147				Average	-	147			turday Aver			147				Average		
Begin		bound		tbound		Way		bound		bound		Way		bound		tbound		Way		bound		tbound		Way
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12 hr 6	0	6	0	12	0	6	0	6	0	12	0	6	0	6	0	12	0	6	0	6	0	12	0
18 hr 12		12	0	25	0	12	0	12	0	25	0	12	0	12	0	25	0	12	0	12	0	25	0
24 hr 12	0	12	0	25	0	12	0	12	0	25	0	12	0	12	0	25	0	12	0	12	0	25	0

											Operation	nal Staff Tr	affic Flows											
												Link 8												
									A1042	between t	he A1085 t	runk Road	and Wave	ney Road ju	unction									
Time				y Average						Average					turday Ave							Average		
Begin		bound		bound		Way		bound		bound		Way		bound		hbound		Way		bound		bound		Way
00.00	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
01.00																								
02.00		+														1								$\overline{}$
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19.00			8		8				8		8				8		8				8		8	
20.00																								
21.00																								
22.00																								
23.00																								
12 hr			8	0	45	0	8		8		45		8	0	8	1 0	45			1 0	8		45	
12 nr 18 hr	8 15	0	15	0	15 30	0	15	0	15	0	15 30	0	15	0	15	0	15 30	0	8 15	0	15	0	15 30	0
24 hr	15	0	15	0	30	0	15	0	15	0	30	0	15	0	15	0	30	0	15	0	15	0	30	0
24 NF	10	0	10	U	30	U	15	U	10	U	30	U	10	U	10	U	30	U	10	0	10	U	30	U

											Operatio	nal Staff Tr	affic Flows											
												Link 9												
			Wookdo	y Average					A10	85 Trunk R Average	oad betwe	en A1042 a	and Thrush	Road junc	tions turday Aver	rage					Sunday	Average		
Time	Fact	bound		bound	Two	Way	East	bound		tbound	Twe	Way	East	oa bound		tbound	Two	Way	Fact	bound		tbound	Two	Way
Begin	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00	Total	11073	Total	11073	1 Ottal	11073	Total	11073	Total	11073	Total	11073	Total	11073	Total	11073	Total	11073	rotar	11073	Total	11073	Total	11073
01.00																								
02.00																								
03.00																								
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05.00																								
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12 hr	1	I 0	1	0	3	0	1	٠ .	1	0	3	Ι ο	1	0	1	۱ ۵	3	l 0	1	Ι ο	1 1	0	3	0
12 hr 18 hr	3	0	3	0	5	0	3	0	3	0	5	0	3	0	3	0	5	0	3	0	3	0	5	0
24 hr	3	0	3	0	5	0	3	0	3	0	5	0	3	0	3	0	5	0	3	0	3	0	5	0
24 H	3	1 0	3	0	0	1 0	3	1 0	3	1 0	0	1 0	3	1 0	1 3	1 0	0	1 0	3	1 0	1 3	0	0	U





Annex L

REC Traffic Flows

										RE	C Total De	evelopment	Traffic Flo	ows										
												Link 1												
											runk Roac	South of A	Access Roi											
_			Weekday	/ Average					Yearly	Average				Sat	urday Aver	age					Sunday	Average		
Time Begin	North	bound	South	bound	Two	Way	North	bound	South	bound	Two	Way	North	bound	South	bound	Two	Way	North	bound	South	bound	Two	Way
J	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06.00	15	0	0	0	15	0	15	0	0	0	15	0	15	0	0	0	15	0	15	0	0	0	15	0
07.00	0	0	15	0	15	0	0	0	15	0	15	0	0	0	15	0	15	0	0	0	15	0	15	0
08.00	15	12	12	12	27	24	15	12	12	12	27	24	15	12	12	12	27	24	15	12	12	12	27	24
09.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
10.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
11.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
12.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
13.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
14.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
15.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
16.00	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24	12	12	12	12	24	24
17.00	12	12	15	12 0	27	24	12	12	15 0	12	27	24	12	12	15	12 0	27	24	12	12	15	12	27	24
18.00 19.00	15 0	0	0 15	0	15	0	15 0	0	15	0	15 15	0	15 0	0	0 15	0	15	0	15 0	0	0	0	15	0
	_	0	0	0	15	0	0	0	0		0	0	0	-		0	15 0	0	0	0	15 0	0	15 0	0
20.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.00		U	U												U									
12 hr	138	120	138	120	276	240	138	120	138	120	276	240	138	120	138	120	276	240	138	120	138	120	276	240
18 hr	153	120	153	120	306	240	153	120	153	120	306	240	153	120	153	120	306	240	153	120	153	120	306	240
24 hr	153	120	153	120	306	240	153	120	153	120	306	240	153	120	153	120	306	240	153	120	153	120	306	240

										PE	C Total D	evelopment	Traffic Ele	we.						,		•		
										NE.	C TOTAL DE	Link 2	Traine Fic	ws										
										A1053 bet	ween A66	and A1085	Trunk Roa											
Time			Weekday	/ Average					Yearly.	Average					urday Aver	age					Sunday	Average		
Begin	East	bound	West	bound	Two	Way	Easth	ound	West	bound	Two	Way	Eastl	oound	West	bound	Two	Way	Eastl	bound	West	bound	Two	Way
ŭ	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06.00	5	0	0	0	5	0	5	0	0	0	5	0	5	0	0	0	5	0	5	0	0	0	5	0
07.00	0	0	5	0	5	0	0	0	5	0	5	0	0	0	5	0	5	0	0	0	5	0	5	0
08.00	10	9	9	9	19	18	10	9	9	9	19	18	10	9	9	9	19	18	10	9	9	9	19	18
09.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
10.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
11.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
12.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
13.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
14.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
15.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
16.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
17.00	9	9	10	9	19	18	9	9	10	9	19	18	9	9	10	9	19	18	9	9	10	9	19	18
18.00	5	0	0	0	5	0	5	0	0	0	5	0	5	0	0	0	5	0	5	0	0	0	5	0
19.00	0	0	5	0	5	0	0	0	5	0	5	0	0	0	5	0	5	0	0	0	5	0	5	0
20.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 hr	96	90	96	90	192	180	96	90	96	90	192	180	96	90	96	90	192	180	96	90	96	90	192	180
18 hr	101	90	101	90	201	180	101	90	101	90	201	180	101	90	101	90	201	180	101	90	101	90	201	180
24 hr	101	90	101	90	201	180	101	90	101	90	201	180	101	90	101	90	201	180	101	90	101	90	201	180

										RE	C Total De	evelopment	Traffic Flo	ws										
												Link 3												
			18/	y Average					Vb		3 betweer	n A66 and A	1085 Junc		urday Aver						0	Average		
Time	Morth	bound		y Average ibound	Tue	Way	Morth	bound		Average ibound	Tive	Way	North	કથા bound		age ibound	Tura	Way	Month	bound		Average	True	Way
Begin	Total	HGV's		HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's		HGV's		HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00	0 0	HGV'S	Total 0	HGV'S	0 0	HGV'S	Otal	HGV'S	0 Otal	HGV'S	0	HGV'S	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HGV'S	Total 0	HGV'S	Total 0	HGV'S	l otal	HGV'S	0 0 tal	HGV'S	0 Otal	HGV'S
01.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06.00	7	0	0	0	7	0	7	0	0	0	7	0	7	0	0	0	7	0	7	0	0	0	7	0
07.00	0	0	7	0	7	0	n	0	7	0	7	0	0	0	7	0	7	0	0	0	7	0	7	0
08.00	4	3	3	3	7	5	4	3	3	3	7	5	4	3	3	3	7	5	1	3	3	3	7	5
09.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
10.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
11.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
12.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
13.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
14.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
15.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
16.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
17.00	3	3	4	3	7	5	3	3	4	3	7	5	3	3	4	3	7	5	3	3	4	3	7	5
18.00	7	0	0	0	7	0	7	0	0	0	7	0	7	0	0	0	7	0	7	0	0	0	7	0
19.00	0	0	7	0	7	0	0	0	7	0	7	0	0	0	7	0	7	0	0	0	7	0	7	0
20.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 hr	34	26	34	26	68	52	34	26	34	26	68	52	34	26	34	26	68	52	34	26	34	26	68	52
18 hr	40	26	40	26	81	52	40	26	40	26	81	52	40	26	40	26	81	52	40	26	40	26	81	52
24 hr	40	26	40	26	81	52	40	26	40	26	81	52	40	26	40	26	81	52	40	26	40	26	81	52

											0 T-4-1 D		T #									•		
										KE	C lotal De	evelopment Link 4	Tramic Fic	ws										
										A66	between A	1053 and	A171 Junct	ions										
Time			Weekday	/ Average						Average					urday Aver	age					Sunday	Average		
Begin		oound		bound		Way		oound		bound		Way	Eastl			bound		Way		bound		bound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05.00	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06.00	0	0	5	0	5 0	0	5	0	0	0	5	0	5	0	0	0	5	0	5	0	0	0	5	0
07.00	0 10	9	9	0 Q	19	0 18	10	0	9	9	5 19	0 18	10	9	5 9	0	5 19	18	10	0	5 9	0 9	19	0 18
08.00 09.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
10.00	9	9	9	g Q	18	18	9	9	g Q	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
11.00	9	9	9	g Q	18	18	9	9	g Q	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
12.00	9	9	9	a	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	0	9	9	18	18
13.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	a	18	18	9	a	9	9	18	18
14.00	9	9	9	a	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	g	9	9	18	18
15.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
16.00	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18	9	9	9	9	18	18
17.00	14	9	10	9	24	18	9	9	10	9	19	18	9	9	10	9	19	18	9	9	10	9	19	18
18.00	0	Ö	5	0	5	0	5	0	0	0	5	0	5	0	0	0	5	0	5	0	0	0	5	0
19.00	0	0	0	0	0	0	0	0	5	0	5	0	0	0	5	0	5	0	0	0	5	0	5	0
20.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 hr	101	90	101	90	201	180	96	90	96	90	192	180	96	90	96	90	192	180	96	90	96	90	192	180
18 hr	101	90	101	90	201	180	101	90	101	90	201	180	101	90	101	90	201	180	101	90	101	90	201	180
24 hr	101	90	101	90	201	180	101	90	101	90	201	180	101	90	101	90	201	180	101	90	101	90	201	180

										RE	EC Total De	evelopment	Traffic Flo	ows										
												Link 5												
			Modelele	/ Average				A10			een junctio	n with A10	53 and jun	ction with N							0	A		
Time	Footh	oound		/ Average bound	Two	Way	Foot	oound		Average tbound	Twe	Way	Foot	Sai bound	urday Aver	age bound	Twe	Way	Foot	bound		Average	Two	Way
Begin	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00	10tai	0	0	0	notal 0	0	0	0	0	0	0	0	0	O O	0	0	10tai 0	0	0	0	0	0	0	0
01.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06.00	4	0	0	0	4	0	4	0	0	0	4	0	4	0	0	0	4	0	4	0	0	0	4	0
07.00	0	0	4	0	4	0	0	0	4	0	4	0	0	0	4	0	4	0	0	0	4	0	4	0
08.00	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1
09.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
10.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
11.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
12.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
13.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
14.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
15.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
16.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
17.00	0	0	1	0	1	1	0	0	1	0	1	1	0	0	1	0	1	1	0	0	1	0	1	1
18.00	4	0	0	0	4	0	4	0	0	0	4	0	4	0	0	0	4	0	4	0	0	0	4	0
19.00	0	0	4	0	4	0	0	0	4	0	4	0	0	0	4	0	4	0	0	0	4	0	4	0
20.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 hr	8	3	8	3	15	6	8	3	8	3	15	6	8	3	8	3	15	6	8	3	8	3	15	6
18 hr	11	3	11	3	22	6	11	3	11	3	22	6	11	3	11	3	22	6	11	3	11	3	22	6
24 hr	11	3	11	3	22	6	11	3	11	3	22	6	11	3	11	3	22	6	11	3	11	3	22	6

							•	•			C Total D	evelopment	Troffic Ele			•		,						
										KE	C TOTAL DE	Link 6	. I railic Fic	ows										
							A1085 Trui	nk Road / L		Road, betw	een juncti	on with Nor	manby Ro				Fleet Lan	е						
Time				Average		***		oound		Average	_	***		Sat bound	urday Aver		_	***				Average		
Begin	Eastr Total	oound HGV's	Total	bound HGV's	Total	Way HGV's	Total	HGV's	Total	bound HGV's	Total	Way HGV's	East Total	HGV's	Total	bound HGV's	Total	Way HGV's	East Total	bound HGV's	Total	bound HGV's	Total	Way HGV's
00.00	0 Otal	HGV'S	0 Otal	HGV'S	0	HGV'S	0	HGV'S	0	HGV'S	0 0 1 0 tal	HGV'S	0	HGV'S	1 otai 0	HGV'S	0 Otal	HGV'S	0 Otal	HGV'S	0	HGV'S	0 0 1 0 tal	HGV'S
01.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.00	0	ō	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06.00	4	0	0	0	4	0	4	0	0	0	4	0	4	0	0	0	4	0	4	0	0	0	4	0
07.00	0	0	4	0	4	0	0	0	4	0	4	0	0	0	4	0	4	0	0	0	4	0	4	0
08.00	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1
09.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
10.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0		1
11.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	- 1
12.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
13.00 14.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	-
15.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	-
16.00	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
17.00	0	0	1	0	1	1	0	0	1	0	1	1	0	0	1	0	1	1	0	0	1	0	1	1
18.00	4	0	0	0	4	0	4	0	0	0	4	0	4	0	0	0	4	0	4	0	0	0	4	0
19.00	0	0	4	0	4	0	0	0	4	0	4	0	0	0	4	0	4	0	0	0	4	0	4	0
20.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 hr	8	3	8	3	15	6	8	3	8	3	15	6	8	3	8	3	15	6	8	3	8	3	15	6
18 hr	11	3	11	3	22	6	11	3	11	3	22	6	11	3	11	3	22	6	11	3	11	3	22	6
24 hr	11	3	11	3	22	6	11	3	11	3	22	6	11	3	11	3	22	6	11	3	11	3	22	6

										RE	C Total De	evelopment	Traffic Flo	ws										
											474 5-6	Link 7	50 I A45	**										
			Weekda	y Average					Vearly	Average	A1/4 betwe	en the A10	53 and A1		turday Aver	ane					Sunday	Average		
Time	East	bound		bound	Two	Wav	Eastl	bound		bound	Two	Wav	Eastl			bound	Two	Wav	East	bound		bound	Two	Wav
Begin	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06.00	6	0	0	0	6	0	6	0	0	0	6	0	6	0	0	0	6	0	6	0	0	0	6	0
07.00	0	0	6	0	6	0	0	0	6	0	6	0	0	0	6	0	6	0	0	0	6	0	6	0
08.00	4	3	3	3	6	5	4	3	3	3	6	5	4	3	3	3	6	5	4	3	3	3	6	5
09.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
10.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
11.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
12.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
13.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
14.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
15.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
16.00	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5	3	3	3	3	5	5
17.00	3	3	4	3	6	5	3	3	4	3	6	5	3	3	4	3	6	5	3	3	4	3	6	5
18.00	6	0	0	0	6	0	6	0	0	0	6	0	6	0	0	0	6	0	6	0	0	0	6	0
19.00	0	0	6	0	6	0	0	0	6	0	6	0	0	0	6	0	6	0	0	0	6	0	6	0
20.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 hr	33	25	33	25	66	51	33	25	33	25	66	51	33	25	33	25	66	51	33	25	33	25	66	51
18 hr	39	25	39	25	78	51	39	25	39	25	78	51	39	25	39	25	78	51	39	25	39	25	78	51
24 hr	39	25	39	25	78	51	39	25	39	25	78	51	39	25	39	25	78	51	39	25	39	25	78	51

										RE	C Total De	evelopment	Traffic Flo	ows										
									A 4 0 4 0		b - A400F4	Link 8 runk Road		D										
			Weekday	, Δverage						Average	ne A1085 t	runk Road	and wave		urday Aver	rane.					Sunday	Average		
Time	North	bound	South		Two	Way	North	bound		nbound	Two	Way	North	bound		nbound	Two	Way	North	nbound		bound	Two	o Way
Begin	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06.00	8	0	0	0	8	0	8	0	0	0	8	0	8	0	0	0	8	0	8	0	0	0	8	0
07.00	0	0	8	0	8	0	0	0	8	0	8	0	0	0	8	0	8	0	0	0	8	0	8	0
08.00	2	0	0	0	2	0	2	0	0	0	2	0	2	0	0	0	2	0	2	0	0	0	2	0
09.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.00	0	0	2	0	2	0	0	0	2	0	2	0	0	0	2	0	2	0	0	0	2	0	2	0
18.00	8	0	0	0	8	0	8	0	0	0	8	0	8	0	0	0	8	0	8	0	0	0	8	0
19.00	0	0	8	0	8	0	0	0	8	0	8	0	0	0	8	0	8	0	0	0	8	0	8	0
20.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				_										_								_		
12 hr	11	2	11	2	22	4	11	2	11	2	22	4	11	2	11	2	22	4	11	2	11	2	22	4
18 hr	19	2	19	2	37	4	19	2	19	2	37	4	19	2	19	2	37	4	19	2	19	2	37	4
24 hr	19	2	19	2	37	4	19	2	19	2	37	4	19	2	19	2	37	4	19	2	19	2	37	4

										RE	C Total De	evelopment	Traffic Fl	ows										
												Link 9												
											oad betwe	en A1042 a	ind Thrush	Road junc										
Time				Average						Average					turday Aver							Average		
Begin	Eastb			bound		o Way		bound		bound		Way		bound		bound		Way		bound		bound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06.00	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0
07.00	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0
08.00	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0
09.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.00	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0
18.00	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0
19.00	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0
20.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 hr	4	2	4	2	8	5	4	2	4	2	8	5	4	2	4	2	8	5	4	2	4	2	8	5
18 hr	5	2	5	2	10	5	5	2	5	2	10	5	5	2	5	2	10	5	5	2	5	2	10	5
24 hr	5	2	5	2	10	5	5	2	5	2	10	5	5	2	5	2	10	5	5	2	5	2	10	5





Annex M

Baseline Plus REC Traffic Flows

											2024 Ba	seline + R	C Flows											
												Link 1												
											runk Roac	South of A	Access Roi											
			Weekday	y Average					Yearly	Average				Sat	turday Ave	rage					Sunday	Average		
Time Begin	North	bound	South	nbound	Two	o Way	North	bound	South	bound	Two	Way	North	bound	South	hbound	Two	Way	North	bound	South	bound	Two	Way
J	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											88	4												
01.00											57	3												
02.00											51	2												
03.00											58	3												
04.00											93	4												
05.00											424	19												
06.00											825	37												
07.00											1334	60												
08.00											1527	92												
09.00											1089	72												
10.00											1051	70												
11.00											1145	75												
12.00											1230	79												
13.00											1296	82												
14.00											1312	82												
15.00											1399	86												
16.00											1584	95												
17.00											1563	93												
18.00					1	1				1	1057	47								1				
19.00											604	27												
20.00											400	18												
21.00											342	15												
22.00											264	12												
23.00											136	6												
12 hr																								
18 hr																								
24 hr							9504	535	9424	548	18928	1083												

											2024 Ba	seline + RI	C Flows											
												Link 2												
											tween A66	and A1085	Trunk Roa											
Time				y Average						Average					urday Aver							Average		
Begin		bound		bound		o Way		bound		bound		Way		oound		bound		Way		bound		bound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											114	8												—
01.00											75	6												—
02.00											66	5												
03.00											75	6												
04.00											121	9												
05.00											551	41												
06.00											1058	78												
07.00											1718	127												
08.00											1967	163												
09.00											1402	121												
10.00											1353	117												
11.00											1474	126												
12.00											1585	134												
13.00											1671	141												
14.00											1692	142												-
15.00											1805	151												-
16.00						1					2044	169												
17.00						1					2014	166						-						-
18.00						1					1359	101					-							-
19.00											770	57												+
20.00											519	39												+
						1																		
21.00											444	33									ļ			
22.00											343	26												—
23.00											177	13												
12 hr																								
18 hr																								
24 hr							11733	1035	12662	943	24395	1978												

											2024 Ba	seline + RI	EC Flows											
												Link 3												
											53 betweer	n A66 and A	1085 June											
Time				y Average						Average					turday Ave							Average		
Begin	North			bound		Way		bound		bound		Way		bound		hbound		Way		bound		bound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											70	6												ــــــ
01.00											46	4												
02.00											40	4												1
03.00											46	4												L
04.00											74	7												1
05.00											337	30												
06.00											650	58												
07.00											1054	95												
08.00											1197	113												
09.00											851	82												
10.00											821	79												
11.00											895	86												
12.00											963	92												
13.00											1015	97												
14.00											1028	98												
15.00											1097	104												
16.00											1244	117												
17.00											1226	115												
18.00											834	75												
19.00											474	42												
20.00											317	29									1			$\overline{}$
21.00											271	25												$\overline{}$
22.00						—					210	19			 	†	—					 		
23.00				 		1	-	-	1	1	108	10	-	-		1	 			 				
20.00											100	1 10												
12 hr					1				1	1		1									1			
18 hr																								
							7707	700	7400	000	44000	4000												
24 hr							7727	702	7139	688	14866	1390												

											2024 Ba	seline + RI	EC Flows											
												Link 4												
											between	A1053 and	A171 Junc											
Time				Average		147				Average		147			turday Ave			147				Average		
Begin	Eastbo Total	und HGV's	Total	bound HGV's	Total	Way HGV's		bound HGV's	Total	bound HGV's	Total	Way HGV's	East Total	bound HGV's	Total	tbound HGV's	Total	Way HGV's	Total	bound HGV's	Total	tbound HGV's	Total	Way HGV's
00.00	Total	HGVS	lotai	HGV'S	Total	HGVS	Total	HGVS	Total	HGVS	10tai 114	15	Total	HGVS	lotai	HGV'S	lotai	HGV'S	lotai	HGV'S	Total	HGV'S	lotai	HGVS
01.00											74	10												
02.00											66	8												
03.00											75	10												
04.00											120	15												
05.00											550	70												
06.00											1056	134												
07.00											1714	219												
08.00											1963	267												
09.00											1399	195												
10.00											1350	188												
11.00											1471	204												
12.00											1582	218												
13.00											1667	229												
14.00											1688	232												
15.00											1801	246												
16.00											2040	277												
17.00											2010	273												
18.00											1356	173												
19.00											768	98												
20.00											518	66												
21.00											443	57												
22.00											343	44												
23.00											176	23												
12 hr						I										1		1		1		1		
18 hr																								
24 hr							12460	1677	11884	1593	24344	3270												
44 III							12400	10//	11004	1393	24044	3210												

											2024 Ba	seline + RI	EC Flows											
												Link 5												
								A10		Road, betwe	een junctio	n with A10	53 and jun											
Time				y Average						Average					turday Ave							Average		
Begin		bound		bound		Way HGV's		bound		tbound		Way		oound		tbound		Way		bound		bound) Way
	Total	otal HGV's Total HGV's Total					Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											52	0												
01.00											34	0												
02.00											30	0												
03.00											34	0												
04.00											54	1												
05.00											248	2												
06.00											478	4												
07.00											776	7												
08.00											880	9												
09.00											625	6												
10.00											603	6												
11.00											657	7												
12.00											707	7												
13.00											746	8												
14.00											755	8												
15.00											806	8												1
16.00											914	9												1
17.00											901	9												1
18.00											614	6												
19.00											348	3												
20.00											234	2												
21.00											200	2												1
22.00											155	1												
23.00											80	1												
																					·	•		
12 hr																								
18 hr																								
24 hr							5438	51	5495	57	10933	108												

											2024 Ba	seline + R	EC Flows											
												Link 6												
							A1085 Trui	nk Road / L			een juncti	on with No	rmanby Ro	ad and jun	ction with.	A171 Carg	o Fleet Lar	е						
Time				y Average						Average					turday Aver							Average		
Begin		oound		tbound		Way		oound		bound		Way		oound		tbound		Way		bound		bound		Way
00.00	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
											62	1												
01.00											40	0												₩
02.00											36	0												
03.00											41	0												—
04.00											65	1												
05.00											299	4												
06.00											575	7												
07.00											934	11												
08.00											1059	13												
09.00											752	9												
10.00											725	9												
11.00											791	10												
12.00											851	11												
13.00											898	11												†
14.00											909	11												
15.00											970	12												
16.00											1101	14												
17.00				1	-	1					1084	13				-	1							-
18.00				-	-						738	9				-	1	-	-	1				
19.00				-		-					419	5				-	-		-					+
20.00	-			-	-	-				-	282					-	-	-	-	 	-	-	-	+
				-		-						3				-	1					ļ		↓
21.00											241	3												↓
22.00											186	2												
23.00											96	1												
12 hr																								_
12 nr 18 hr																								_
							5000	05	7040	70	40454	404												
24 hr							5309	85	7846	76	13154	161												4

											2024 Ba	seline + RI	EC Flows											
												Link 7												
											4174 betwe	en the A10	53 and A17											
Time				y Average						Average				Sa	turday Ave							Average		
Begin		oound		bound) Way		bound		bound		Way		oound		tbound		Way		bound		bound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											153	9												
01.00											100	6												
02.00											89	5												
03.00											101	6												
04.00											162	9												
05.00											740	42												
06.00											1421	80												
07.00											2308	130												
08.00											2624	153												
09.00											1864	110												
10.00											1798	106												
11.00											1961	116												
12.00											2111	124												
13.00											2225	131												
14.00											2253	132												
15.00											2405	141												
16.00											2727	159												
17.00											2686	157												
18.00											1825	103												
19.00											1034	58												
20.00											698	39												
21.00											596	34												
22.00						1					461	26				1	1							
23.00						-					238	13				+	+							
20.00	l———			1	1	1		1	1	1	1 200	1 10	l	l		1	1	1		1	1	·		
12 hr																								
18 hr																								
24 hr							16788	957	15792	931	32581	1888												
24 NF							10/88	957	15/92	931	32581	1688												

											2024 Ba	seline + R	EC Flows											
												Link 8												
			18/								he A1085 t	runk Road	and Wave	ney Road ji							0	A		
Time	Manda	h a consid	weekday South	/ Average	T		NI	h a consid		Average	T	Mon	NI		turday Ave		T	10/	NI stl-	. In account		Average bound	T	10/
Begin	Total	bound HGV's	Total	HGV's	Total	Way HGV's	Total	bound HGV's	Total	nbound HGV's	Total	Way HGV's	Total	bound HGV's	Total	hbound HGV's	Total	Way HGV's	Total	bound HGV's	Total	HGV's		Way
00.00	Total	HGVS	lotai	HGV'S	Total	HGVS	lotai	HGVS	lotai	HGVS	48	HGV S	lotai	HGVS	lotai	HGVS	Total	HGVS	i otai	HGVS	lotai	HGVS	Total	HGV's
01.00						1					31	1				1								+
02.00											28	0												-
03.00											31	1												-
04.00											50	1												+
05.00						<u> </u>					230	4				<u> </u>								+
06.00											447	8												+
07.00											723	13												+
08.00						1					815	15												-
09.00											578	11												+
10.00											557	10												+
11.00											608	11												+
12.00											654	12												+
13.00											690	12												+
14.00											699	13												+
15.00											746	13												+
16.00											846	15												-
17.00											835	15												+
18.00											572	10												+
19.00											327	6												+
20.00											217	4												+
21.00											185	3												+
22.00											143	3												+
23.00											74	1												+
	1	1				1	1	1	1	1				-		t .		1		1	1	1	1	.1
12 hr																								
18 hr																								
24 hr							5086	98	5049	82	10134	181												

											2024 Ba	seline + R	EC Flows											
												Link 9												
											oad betwe	en A1042 a	nd Thrush											
Time				Average		147				Average					turday Ave			147				Average		
Begin		oound		bound		Way		bound		bound		Way		bound		tbound		Way		bound		tbound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											50	1												
01.00											33	0												
02.00											29	0												
03.00											33	0												
04.00											53	1												
05.00											243	3												
06.00											465	5												
07.00											756	8												
08.00											859	10												
09.00											610	7												1
10.00											589	7												
11.00											642	8												
12.00											691	8												†
13.00											729	9												†
14.00											738	9												1
15.00											788	9												1
16.00											894	11												+
17.00						1					880	10												+
18.00						<u> </u>					598	7												+
19.00	 					1					338	4		 		<u> </u>		 		 		<u> </u>		+
20.00						+					229	3		 				 		 		-		+
21.00											196	2		-		-		-		-	-		-	+
22.00	-										151	2		-						-	-	-	-	+
						1						1 4				-		-		-		-		+
23.00											78	1 1												
12 hr																								
																								-
18 hr							5400		5400	0.5	40070	101												
24 hr							5180	60	5492	65	10672	124												





Annex N

REC Traffic Impact Assessment

						Cumulative +	
	2024 Baseline	Development	% Impact	Cumulative	% Impact	Development	% Impact
	A1085 Trunk Roa	d South of Acces			· · · ·		
AM peak hour	1500	27	1.81%	0	0.0%	27	1.81%
PM peak hour	1535	27	1.77%	0	0.0%	27	1.77%
12 hr (7am-7pm)	15310	276	1.80%	0	0.0%	276	1.80%
24 hr	18622	306	1.64%	0	0.0%	306	1.64%
	A1053 between A6	6 and A1085 Trun	k Road junction	n			
AM peak hour	1948	19	0.98%	4	0.2%	23	1.21%
PM peak hour	1995	19	0.95%	0	0.0%	19	0.95%
12 hr (7am-7pm)	19892	192	0.96%	77	0.4%	269	1.35%
24 hr	24194	201	0.83%	82	0.3%	284	1.17%
	A1053 betwee	n A174 and A108	5 Junctions				
AM peak hour	1191	7	0.55%	4	0.4%	11	0.93%
PM peak hour	1219	7	0.54%	0	0.0%	7	0.54%
12 hr (7am-7pm)	12156	68	0.56%	22	0.2%	90	0.74%
24 hr	14785	81	0.55%	23	0.2%	104	0.70%
	A66 between	A1053 and A171	Junctions				
AM peak hour	1944	19	0.98%	18	0.9%	37	1.90%
PM peak hour	1991	19	0.96%	0	0.0%	19	0.96%
12 hr (7am-7pm)	19849	192	0.97%	309	1.6%	501	2.52%
24 hr	24143	201	0.83%	331	1.4%	532	2.20%
A1085 Trunk Ro	ad, between juncti	on with A1053 an	d junction with	Normanby Roa	id		
AM peak hour	879	1	0.16%	0	0.0%	1	0.16%
PM peak hour	900	1	0.16%	0	0.0%	1	0.16%
12 hr (7am-7pm)	8970	15	0.17%	0	0.0%	15	0.17%
24 hr	10910	22	0.20%	0	0.0%	22	0.20%
A1085 Trunk Road / Longlands Ro	oad, between junc	tion with Norman	by Road and jui	nction with A17	1 Cargo Flee	t Lane	
AM peak hour	1057	1	0.13%	0	0.0%	1	0.13%
PM peak hour	1083	1	0.13%	0	0.0%	1	0.13%
12 hr (7am-7pm)	10797	15	0.14%	0	0.0%	15	0.14%
24 hr	13132	22	0.17%	0	0.0%	22	0.17%
	A174 betv	veen the A1053 ar	nd A171				
AM peak hour	2617	6	0.24%	0	0.0%	6	0.24%
PM peak hour	2680	6	0.24%	0	0.0%	6	0.24%
12 hr (7am-7pm)	26723	66	0.25%	0	0.0%	66	0.25%
24 hr	32502	78	0.24%	0	0.0%	78	0.24%
A1042 b	etween the A1085	trunk Road and	Waveney Road	junction			
AM peak hour	813	2	0.25%	0	0.0%	2	0.25%
PM peak hour	833	2	0.24%	0	0.0%	2	0.24%
12 hr (7am-7pm)	8301	22	0.27%	0	0.0%	22	0.27%
24 hr	10097	37	0.37%	0	0.0%	37	0.37%
A108	Trunk Road betw	een A1042 and Ti	hrush Road jun	ctions			
AM peak hour	859	1	0.09%	0	0.0%	1	0.09%
PM peak hour	879	1	0.08%	0	0.0%	1	0.08%
12 hr (7am-7pm)	8766	8	0.09%	0	0.0%	8	0.09%
24 hr	10662	10	0.10%	0	0.0%	10	0.10%





Annex O

2024 Baseline Plus Cumulative Plus REC Traffic Flows

										2024	Baseline +	Developm	ent + Cum	ulative										
												Link 1												
			Weekday	y Average					Vearly	A1085 T Average	runk Road	South of A	Access Ro		turday Ave	rane					Sunday	Average		
Time	North	a und			Ture	Mari	North	nbound		nbound	Torre	Way	North	bound		hbound	Ture	Way	North	bound		bound	Tue	o Way
Begin		Northbound Southbound Two V																						
00.00	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
01.00	-										88 57	3												—
02.00											51	2												
03.00	 										58	3				1								+
04.00											93	4												+
05.00											424	19												+
06.00											825	37												
07.00											1334	60												
08.00											1527	92												
09.00											1089	72												
10.00											1051	70												
11.00											1145	75												
12.00											1230	79												1
13.00											1296	82												
14.00											1312	82												
15.00											1399	86												
16.00											1584	95												
17.00											1563	93												
18.00											1057	47												
19.00											604	27												
20.00											400	18												
21.00											342	15												↓
22.00											264	12												↓
23.00											136	6												Ь
12 hr																								
18 hr																								
24 hr							9504	535	9424	548	18928	1083												

										2024	Baseline +	Developm	ent + Cumi	ulative										
												Link 2												
			10/ I - I I						Vb		tween A66	and A1085	Trunk Roa								0			
Time	Eastb		Weekday	/ Average bound	T	14/	F	bound		Average bound	T	10/	E	oound	turday Ave	rage tbound	T	10/	F	bound		Average tbound	T	10/
Begin	Total	ouna HGV's	Total	HGV's	Total	Way HGV's	Total	HGV's	Total	HGV's	Total	Way HGV's	Total	HGV's	Total	tbound HGV's	Total	Way HGV's	Total	HGV's	Total	HGV's	Total	Way HGV's
00.00	TOtal	TIGVS	TOtal	IIGV S	TOtal	HGV S	TOtal	HGV S	TOtal	HGV S	116	8	TOtal	HGV S	TOtal	HGV S	TOtal	HGV S	TOLAT	IIGV S	TOtal	TIGV S	TOtal	IIGV S
01.00											75	6												
02.00											66	5												
03.00											75	6												
04.00											121	9												1
05.00											551	41												
06.00											1059	79												
07.00											1726	128												
08.00											1972	165												
09.00											1407	124												
10.00											1360	123												
11.00											1486	135												
12.00											1597	143												
13.00											1679	147												
14.00											1698	147												
15.00											1814	156												
16.00											2051	169												
17.00											2014	166												
18.00											1359	101												
19.00											770	57												
20.00											519	39												
21.00											444	33												
22.00											343	26												
23.00											179	13												
12 hr																								
18 hr																								
24 hr							11789	1058	12718	966	24477	2024												

										2024	Baseline +	Developm	ent + Cum	ulative										
												Link 3												
			10/						Vb		53 betweer	A66 and A	1085 June	tions							0	A		
Time	Northi	an und		y Average nbound	Torre	Way	Morth	bound		Average abound	Torre	Way	Month	bound	turday Ave	rage hbound	Torre	Way	North	nbound		Average bound	True	o Way
Begin	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00	TOtal	HGV S	TOtal	TIGV S	TOtal	IIGV S	TOtal	HGVS	TOtal	IIGV S	72	6	TOtal	HGV S	TOtal	IIGV S	TOtal	IIGV S	I Olai	HGV S	TOtal	HGVS	IUlai	HGVS
01.00											46	4												
02.00											40	4												
03.00											46	4												
04.00											74	7												†
05.00											337	30												
06.00											652	59												
07.00											1061	96												
08.00											1202	115												
09.00											856	85												
10.00											828	85												
11.00											906	94												
12.00											974	100												
13.00											1023	103												
14.00											1034	102												
15.00											1106	109												
16.00											1250	117												
17.00											1226	115												
18.00											834	75												
19.00											474	42												
20.00											317	29												
21.00											271	25												
22.00											210	19												
23.00											110	10												
12 hr																								
18 hr							7700	705	7405	744	4.40.40	4.400												
24 hr							7782	725	7195	711	14948	1436												1

										2024	Baseline +	Developm	ent + Cumi	ulative										
												Link 4												
											between	A1053 and	A171 Junct											
Time				y Average		147				Average		147			turday Ave			147	_			Average		
Begin	Eastb Total	ound HGV's		tbound		Way		bound		bound		Way		bound		tbound		Way		bound		bound		Way
00.00	i otai	HGV'S	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total 122	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
01.00											74	10								-				-
02.00											66	8				_				-				+
03.00											75	10												+
04.00											120	15												+
05.00											550	70												+
06.00											1061	140												+
07.00											1745	225												+
08.00											1981	277												
09.00											1418	213												
10.00											1381	219												1
11.00											1517	250												1
12.00											1628	264												
13.00											1700	262												
14.00											1713	257												
15.00											1838	275												
16.00											2065	277												
17.00											2010	273												
18.00											1356	173												
19.00											768	98												
20.00											518	66												
21.00											443	57												
22.00											343	44												
23.00											184	23												
12 hr																								
18 hr																								
24 hr							12626	1801	12049	1717	24674	3518												

										2024	Baseline +	Developm	ent + Cumi	ulative										
												Link 5												
								A10	85 Trunk F		en junctio	n with A10	53 and june	ction with N	Normanby	Road								
Time				y Average						Average					turday Ave							Average		
Begin		bound		tbound		Way		bound		bound		Way		oound		tbound		Way		bound		bound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											52	0												
01.00											34	0												
02.00											30	0												
03.00											34	0												
04.00											54	1												
05.00											248	2												
06.00											478	4												
07.00											776	7												
08.00											880	9												
09.00											625	6												
10.00											603	6												
11.00											657	7												
12.00											707	7												
13.00											746	8												
14.00											755	8												
15.00											806	8												
16.00											914	9												
17.00											901	9												
18.00											614	6												
19.00				1							348	3				1								
20.00											234	2												
21.00											200	2												
22.00											155	1												
23.00											80	1								1				
20.00											1 30	<u>'</u>												
12 hr																								
18 hr																								
24 hr							5438	51	5495	57	10933	108												
24 III							5430	31	5495	37	10933	100		l										

										2024	Baseline +	Developm	ent + Cum	ulative										
												Link 6												
							A1085 Trui	nk Road / L			een juncti	on with No	rmanby Ro				o Fleet Lar	е						
Time				y Average						Average					turday Ave							Average		
Begin	Eastb			tbound		Way		bound		tbound		Way		oound		tbound		Way		bound		bound		Way
00.00	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total 62	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
01.00				1		1					40	0				1	1			+				-
02.00				1		1				-	36	0				1	1			+				-
03.00				1		1				-	41	0								+				+
04.00				1		1					65	1								1				+
05.00				1						 	299	4												
06.00											575	7								1				
07.00											934	11								+		-		
08.00				1		1					1059	13				1				<u> </u>		-		
09.00											752	9												
10.00											725	9												
11.00											791	10												
12.00											851	11												
13.00											898	11												
14.00											909	11												
15.00											970	12												
16.00											1101	14												
17.00											1084	13												
18.00											738	9												1
19.00											419	5												1
20.00											282	3												1
21.00											241	3												
22.00											186	2												
23.00											96	1												
12 hr																								
18 hr																								
24 hr							5309	85	7846	76	13154	161												4

										2024	Baseline +	Developm	ent + Cumi	ılative										
												Link 7												
											A174 between	en the A10	53 and A17	1										
Time				y Average						Average					turday Ave							Average		
Begin		oound		bound		Way		bound		bound		Way		oound		tbound		Way		bound		bound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											153	9												
01.00											100	6												<u> </u>
02.00											89	5												
03.00											101	6												
04.00											162	9												
05.00											740	42												
06.00											1421	80												
07.00											2308	130												T
08.00											2624	153												
09.00											1864	110												
10.00											1798	106												
11.00											1961	116												
12.00											2111	124												
13.00											2225	131												
14.00											2253	132												
15.00											2405	141												1
16.00											2727	159												†
17.00											2686	157												1
18.00									†		1825	103												
19.00											1034	58												
20.00											698	39												t
21.00											596	34												
22.00											461	26												
23.00						-					238	13				+								+
20.00	l———			1		1			-	-	1 200	1 10	l	l		1		1		1	1	1	l	
12 hr																								
18 hr																								_
24 hr							16788	057	15700	024	22504	1000												
24 NF							10/88	957	15792	931	32581	1888												

										2024	Baseline +	Developm	ent + Cum	ulative										
												Link 8												
									A1042	between t	he A1085 t	runk Road	and Wave	ney Road ju	ınction									
Time				y Average						Average					turday Ave							Average		
Begin	Northbo			bound		Way		bound		bound		Way		bound		nbound		Way		bound		nbound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											48	1												+
01.00											31	1												
02.00											28	0											├	
03.00											31	1											├	
04.00											50	1											├	
05.00											230	4												
06.00											447	8											_	_
07.00											723	13											_	_
08.00											815	15											<u> </u>	
09.00											578	11											<u> </u>	
10.00											557	10												
11.00											608	11												
12.00											654	12												
13.00											690	12												
14.00											699	13												
15.00											746	13												
16.00											846	15												
17.00											835	15												
18.00											572	10												
19.00											327	6												
20.00											217	4												
21.00											185	3												
22.00											143	3												
23.00											74	1												
12 hr																								
18 hr																								
24 hr							5086	98	5049	82	10134	181												

										2024	Baseline +	Developm	ent + Cum	ulative										
												Link 9												
											oad betwe	en A1042 a	nd Thrush											
Time				Average		147				Average					turday Ave			147				Average		
Begin		oound		bound		Way		bound		bound		Way		bound		tbound		Way		bound		tbound		Way
	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's	Total	HGV's
00.00											50	1												↓
01.00											33	0												
02.00											29	0												
03.00											33	0												
04.00											53	1												
05.00											243	3												
06.00											465	5												
07.00											756	8												
08.00											859	10												
09.00											610	7												
10.00											589	7												
11.00											642	8												
12.00											691	8												
13.00											729	9												†
14.00											738	9												
15.00											788	9												
16.00											894	11												
17.00						1					880	10												
18.00						1					598	7												+
19.00											338	4				-		-						+
20.00						+					229	3		 				 		 		-		+
21.00											196	2		-		-		-		-	-		-	-
22.00	-										151	2		-						-	-	-		+
						1						1 4				-		-		-		-		-
23.00											78	1 1												
12 hr																								
18 hr							5400		5400	0.5	10070	101												_
24 hr							5180	60	5492	65	10672	124												





Annex P

Cumulative Impact Assessment

Link Number	Description	2018 O	bserved	2024 G	rowthed	2024 B	aseline	2024 Ba Cumu		2024	4 Baseline	+ Develop	ment	202	4 Baseline	+ Cumula	tive	2024	Baseline + Cumu		ent +
Number		AADT	HGVs	AADT	HGVs	AADT	HGVs	AADT	HGVs	AADT	%	HGVs	%	AADT	%	HGVs	%	AADT	%	HGVs	%
1	A1085 Trunk Road South of Access Roundabout	17262	760	18170	800	18622	843	18622	843	18928	1.62%	1083	22.14%	18622	0.00%	843	0.00%	18928	1.62%	1083	22.14%
2	A1053 between A66 and A1085 Trunk Road junction	22379	1611	23556	1696	24194	1798	24276	1844	24395	0.83%	1978	9.11%	24276	0.34%	1844	2.50%	24477	1.16%	2024	11.17%
3	A1053 between A66 and A174 Junctions	13686	1179	14406	1241	14785	1338	14867	1384	14866	0.54%	1390	3.71%	14867	0.55%	1384	3.33%	14948	1.09%	1436	6.80%
4	A66 between A1053 and A171 Junctions	22354	2862	23530	3013	24143	3090	24473	3338	24344	0.83%	3270	5.51%	24473	1.35%	3338	7.45%	24674	2.16%	3518	12.18%
5	A1085 Trunk Road, between junction with A1053 and junction with Normanby Road	10328	94	10871	99	10910	102	10910	102	10933	0.20%	108	5.98%	10910	0.00%	102	0.00%	10933	0.20%	108	5.98%
6	A1085 Trunk Road / Longlands Road, between junction with Normanby Road and junction with A171 Cargo Fleet Lane	12454	144	13109	152	13132	155	13132	155	13154	0.17%	161	4.02%	13132	0.00%	155	0.00%	13154	0.17%	161	4.02%
7	A174 between the A1053 and A171	30428	1718	32028	1808	32502	1837	32502	1837	32581	0.24%	1888	2.68%	32502	0.00%	1837	0.00%	32581	0.24%	1888	2.68%
8	A1042 between the A1085 Trunk Road and Waveney Road junction	9347	165	9839	174	10097	177	10097	177	10134	0.37%	181	2.29%	10097	0.00%	177	0.00%	10134	0.37%	181	2.29%
9	A1085 Trunk Road between A1042 and Thrush Road junctions	9884	111	10404	117	10662	120	10662	120	10672	0.10%	124	3.78%	10662	0.00%	120	0.00%	10672	0.10%	124	3.78%