

# **Construction Traffic Management Plan**

Proposed Marl Hill and Bowland Sections

Access to Bonstone, Braddup and Newton-in-Bowland compounds

Option 1 - Use of the Existing Ribble Crossings

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### 1. Introduction

### 1.1 Background

### 1.1.1 The Haweswater Aqueduct

The existing Haweswater Aqueduct is a feat of engineering. The pipeline, built between 1933 and 1955, has successfully served people in Cumbria, Lancashire and Greater Manchester for over sixty years.

In order to maintain the integrity of the network, United Utilities are proposing to replace all six tunnel sections along the length of the aqueduct from Cumbria to Greater Manchester. This programme of work is the Haweswater Aqueduct Resilience Programme (HARP).

### 1.1.2 The Bowland Section

The third of the six proposed tunnel sections, known as the proposed Bowland Section, extends from Lower Houses near Wray in the north, below the Bowland fells, to Newton-in-Bowland in the south. The proposed Bowland Section would replace an existing 16.7 km section of aqueduct between Wray and Newton-in-Bowland. It would be constructed by a Tunnel Boring Machine (TBM) below ground level with short open-cut surface trenching sections at each end making connections back to the existing aqueduct. The new tunnel would be bored in a northerly direction from a portal at the southern end of the tunnel. The Bowland tunnel would have a launch compound approximately 460 m to the west of Newton-In-Bowland (hereafter referred to as "the Newton Compound" - see Figure A-1-01 in Appendix A1).

### 1.1.3 The Marl Hill Section

The fourth of the six tunnel sections, known as the proposed Marl Hill Section, extends from Bonstone south of the River Hodder near Newton-in-Bowland, to Bashall Eaves north of Waddington.

The proposed Marl Hill Section would replace an existing 4.3 km section of aqueduct between Newton-in-Bowland and Waddington. It would be constructed by a TBM below ground level with short open-cut surface trenching sections at each end making connections back to the existing aqueduct. The new tunnel would be bored in a northerly direction from a shaft at the south end of the tunnel. The proposed Marl Hill Section would have a launch compound at Bashall Eaves (hereafter referred to as "the proposed Braddup Compound" – see Figure A-1-01 in Appendix A1) approximately 4.5 km to the northwest of Clitheroe with a reception shaft approximately 1.5 km south of Newton-in-Bowland (hereafter referred to as "the proposed Bonstone Compound" – see Figure A-1-01 in Appendix A1).

### 1.1.4 Shared access

The proposed Marl Hill compounds and the proposed Newton-in-Bowland compound are all in close proximity to the B6478 to the north of Clitheroe. The timing of the majority of the proposed construction activities would coincide, consequently it is anticipated that a significant proportion of Marl Hill and Newton Access routes (hereafter referred to as "MNA" routes) would be shared.

### 1.2 Purpose of the Document

This document comprises the Construction Traffic Management Plan (CTMP) for the proposed MNA. It outlines mitigation embedded in the design of the proposed Newton-in-Bowland and Bonstone/Braddup planning applications and details additional mitigation measures prescribed in the Environmental Statements for the Proposed Bowland and Marl Hill Sections.



The core objective of the CTMP is to ensure that construction of the proposed Bowland and Marl Hill Sections does not give rise to undue adverse impacts on the local highway. To that end it shall:

- Ensure that movements of people, plant and materials are achieved in a safe, efficient and timely manner
- Establish a sustainable and proportionate approach to help ensure that the character and distinctiveness of the AONB is retained as far as is reasonably practicable
- Ensure construction traffic levels do not exceed an acceptable level during network peak periods
- Reduce and control construction vehicle trips where practical
- Ensure strategies and mitigation measures are implemented and adhered to through continued monitoring, review and improvement of the CTMP
- Limit the effects of construction traffic on the Local Road Network.

The CTMP will be further developed by the appointed Contractor for submission to, and approval of, the Local Planning Authority and Local Highway Authority prior to the commencement of works.



# 2. Sequencing of proposed works and anticipated access requirements

### 2.1 Sequencing of proposed works

The proposed works phases during construction, in addition to activities in each phase, are set out in Table 1 below.

Works Phase	Activities	
Phase 1	Newton-in-Bowland	
Newton-in-Bowland Site	Highway improvements	
Establishment	Establishing construction access	
	Vegetation clearance	
	Public Rights of Way diversions	
	Earthworks	
	Establishing compound working areas	
	Marl Hill Sites	
	No activity	
Phase 2	Newton-in-Bowland	
Bowland Tunnel Drive and	Portal construction	
Marl Hill Tunnel Site	Management of material/ waste arisings	
Establishment	Tunnel construction	
	Open-cut pipework construction	
	Marl Hill Sites	
	Establishing construction access	
	Vegetation clearance	
	Public Rights of Way diversions	
	Earthworks	
	Establishing compound working areas	
Phase 3	Newton-in-Bowland	
Bowland Tunnel Drive and	Management of material/ waste arisings	
Marl Hill Tunnel Drive	Tunnel construction	
	Open-cut pipework construction	
	Marl Hill Sites	
	Shaft construction	
	Management of material/ waste arisings	
	Tunnel construction	
	Open-cut pipework construction	
Phase 4	Newton-in-Bowland	
Bowland Tunnel Drive and	Management of material/ waste arisings	
Marl Hill Tunnel	Tunnel construction	
Reinstatement	Open-cut pipework construction	
	Marl Hill Sites	
	Land reinstatement	
Phase 5	Newton-in-Bowland	
Newton-in-Bowland Site	Land reinstatement	
Reinstatement	Marl Hill Sites	
	No activity	
Та	ble 1 Proposed Phases of Work (Construction and Commissioning)	



### 2.2 Anticipated site access requirements

Costain were engaged by United Utilities to provide Early Contractor Involvement, as part of this work Costain have provided construction traffic estimates based on typical anticipated resource requirements. The estimates indicate that circa 275,000 two-way vehicle movements in total across the five construction phases and the three proposed compounds will be necessary for the completion of the proposed works.

This initial assessment suggests traffic supporting construction activities will be predominantly composed of the vehicles listed below. The list includes an indication of vehicle type, use and the approximate percentage of the total two way vehicle movements that will be completed by each vehicle type.

It should be noted that the list of vehicles is indicative and is not exhaustive. The precise number, type and composition of the fleet of construction vehicles used will be determined by the appointed contractor(s).

### HGV - 4 axle rigid max GVW 32 Tonne (rigid/tipper)

### Circa 73% of all two way movements

Typically used to transport the following:

- tunnel arisings from the tunnel launch sites (circa 78% of such vehicle movements will be used for this purpose, i.e. approximately 57% of all two way movements)
- other bulk materials (examples include aggregates and asphalt)
- pre cast concrete tunnel segmental rings
- connecting pipework

[Appendix A3 Figure A-3-01 provides an indication of typical vehicle dimensions]

### LGV - 2 axle max GVW 3.5 Tonne (crew bus / car)

#### Circa 17% of all two way movements

Used to transport site personnel and visitors between compounds and a proposed park and ride site (this proposed mitigation measure is discussed in subsequent sections).

### HGV – 5/6 axle articulated tanker up to GVW 44 Tonne

#### Circa 3.6% of all two way movements

Typically used for bulk movement of fluid materials consumed/generated during the works, examples include:

- Cement
- Bentonite
- Grout additives
- Gasoil
- Waste water

[Appendix A3 Figure A-3-02 provides an indication of typical vehicle dimensions]

LGV - 2 axle max GVW 3.5 Tonne (transit type pick up / 4x4)



### Circa 2.5% of all two way movements

Typically used for general deliveries (consumables and site equipment)

#### HGV - 3 axle rigid body skip wagon up to GVW 26 Tonne

Circa 1.3% of all two way movements

Used for the removal of waste materials generated by the works

### HGV - tractor unit, low loader step trailer (typical width 2.9m) up to GVW 44 Tonne

#### Circa 1.0% of all two way movements

Typically used for delivery of large plant and equipment to site, examples include:

- Excavators
- Dump Trucks
- Compaction plant
- Piling rigs
- Tracked cranes

[Appendix A3 Figure A-3-03 provides an indication of typical vehicle dimensions]

### HGV – 5/6 axle articulated flatbed up to GVW 44 Tonne

#### Circa 0.9% of all two way movements

Typically used for delivery of large self-contained and/or prefabricated equipment to site, examples include:

- Temporary accommodation
- Temporary works equipment
- Wheel wash
- HV equipment
- Emergency generator
- Powder Silos and batching plant
- Cooling water tank and pumps
- Ventilation container and duct
- Muck bay equipment

[Appendix A3 Figure A-3-04 provides an indication of typical vehicle dimensions]

#### HGV - 3 axle articulated flatbed GVW 26 Tonne

#### Circa 0.4% of all two way movements

Used to deliver larger components or equipment examples include:

- Replacement tunnel boring machine components
- Security fencing, lighting, barriers

### HGV - 4 axle rigid max GVW 32 Tonne (concrete mixer)

Circa 0.3% of all two way movements

Used to deliver mixed concrete to site



### **Abnormal Indivisible Load Movements**

The Proposed Development will require the movement of Abnormal Indivisible Loads (AILs). AILs are defined as vehicles which fall outside the provisions contained within The Road Vehicles (Construction and Use) Regulations 1986 and The Road Vehicles (Authorised Weight) Regulations 1998. Two types of AIL are anticipated:

- Delivery of the Tunnel Boring Machines (TBM) to the tunnel launch sites (Braddup and Newton) and to remove the Marl Hill TBM upon completion of the Marl Hill tunnel from the Bonstone compound. The TBM will be composed of multiple AILs. These AILs will be transported by tractor unit and multi axle low bed step trailer. Circa 20 two-way movements are anticipated in total (i.e. less than 0.01% of all two-way movements). [Appendix A3 Figure A-3-06 provides an indication of typical vehicle dimensions]
- Mobile cranes will be required (typically 3m wide and up to 22m long). Circa 400 two-way movements are anticipated in total (i.e. approximately 0.15% of all two-way movements).
   [Appendix A3 Figure A-3-05 provides an indication of typical vehicle dimensions]

Initial assessments of potential routes, including horizontal swept path analysis and a separate logistics review, have been completed considering TBM shield haulage (the anticipated largest indivisible load a 4.3m square, 120 tonne TBM component). The findings of the initial assessments are summarised in Appendix B3.

The specification of the TBMs and vehicle / trailer configurations will be determined by the appointed contractor(s). The appointed contractor(s) will be responsible for developing a detailed plan that will be subject to approval by all relevant authorities. In developing the plan prior to the movement of such loads, full consultation will be undertaken by the appointed contractor(s) with the highway authorities and Police to ensure delivery is scheduled to minimise delay on the highway network.



### 3. Proposed Vehicle Routing

### 3.1 MNA Proposal Overview

Figure A-1-01 in Appendix A1 shows the proposed routes.

It is proposed that each of the three compounds is accessed via its own dedicated temporary haul road linking the compound to the B6478. The temporary haul roads for the Newton-in-Bowland and Braddup Compounds will require the creation of temporary new junctions with the B6478. The Newton-in-Bowland Compound will also require new temporary junctions with Newton Road (to the west of Newton) which construction traffic will use to cross the road. The temporary haul road facilitating access to the Bonstone compound will utilise an existing junction that will have to be modified to accommodate the anticipated construction vehicles.

The proposal uses two alternative routes to access the B6478 at the north of Waddington from the A59 south of Clitheroe. One for construction vehicles that can pass beneath a low railway bridge on the B6478 in Clitheroe (3.5m height restriction) and the other for vehicles over 3.5m high.

### 3.1.1 General Construction Traffic

Access to and from the proposed Newton-in-Bowland, Bonstone and Braddup compounds for light vehicles and HGVs under 3.5 m in height will be gained via Junction 31 of the M6, A59, A671 Pimlico Link Road, A671 Chatburn Road and through Waddington along the B6478 Well Terrace/Waddington Road/Clitheroe Road/Slaidburn Road/Hallgate Hill (hereafter referred to as "Route 1").

### 3.1.2 HGVs over 3.5 m in height (including AILs)

HGVs over 3.5 m in height and AILs will access the site through Clitheroe via Junction 31 of the M6, A59, Pimlico Link Road, Chatburn Road, Clitheroe Road, Crow Trees Brow, Ribble Lane, East View, Grindleton Road, West Bradford Road (Grindleton), Waddington Road, West Bradford Road (Waddington) and along the B6478 Slaidburn Road (hereafter referred to as "Route 2").

### 3.1.3 Surplus Material Arising from Tunnel Construction

Surplus arisings derived from the construction of the proposed Bowland and Marl Hill Sections will be transported to Waddington Fell Quarry for use in the restoration of the quarry. Arisings will be brought to surface at the proposed Newton-in-Bowland and Braddup compounds and transported along the B6478 to the quarry. This results in a significant proportion of anticipated two way movements avoiding the road network south of the proposed Braddup haul road junction with the B6478. The figure below illustrates the anticipated percentage split between Route 1, Route 2 and the surplus arising movements.



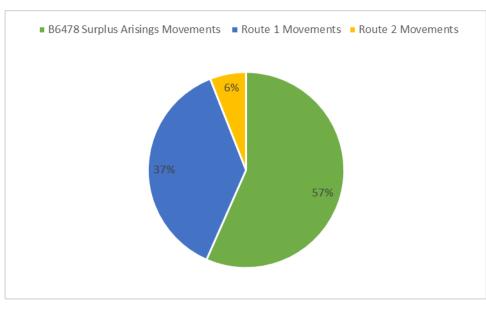


Figure 1 – Anticipated traffic split between routes

### 3.2 Local Highway Constraints and Considerations

There are a number of constraints and considerations that have informed the traffic route proposal. The table below provides a summary of these. The table also includes an overview of how these issues have been mitigated at the route planning stage and further opportunities for mitigation during the construction stage. Further detail on the proposed mitigation measures is included in subsequent sections.

Constraint/ consideration	Key Issues	Overview of mitigation
Road Safety	Potential conflict/increased risk of accidents between construction vehicles and other road users including non- motorised users	Proposed construction traffic routes avoid higher accident frequency links where possible and appropriate. Appropriate temporary access design. Suitable traffic management, signage and communications. Driver Training Continuous improvement: monitoring,
		review and improvement led by a multiparty HARP Highways Stakeholder Group. Detailed design to include appropriate safety audits.
Urban areas and built environment indicators	Potential conflict/increased risk of accidents between construction vehicles and residents of local villages, towns and particularly around schools.	Proposed construction traffic routes minimise the number of sensitive areas affected so far as reasonably practicable.



Constraint/ consideration	Key Issues	Overview of mitigation
(villages, towns, schools)		Proposed construction traffic routes minimise the impact to the centre of Clitheroe so far as reasonably practicable.
		Restrictions on construction traffic movements during school drop off periods proposed.
		Community Engagement Group and free phone community number to allow direct communication between local residents and the Contractor.
Existing link capacity and traffic composition	Congestion/road capacity	Proposal attempts to minimise the number of movements through Clitheroe and surrounding villages so far as reasonably practicable.
		Proposal to reuse tunnel arisings at Waddington Fell Quarry avoids the need for circa 57% of anticipated traffic to travel through more populated sections of the B6478 (i.e. south of the proposed Braddup compound entrance).
		Park and Ride facility (see Figure A-1-01 in Appendix A1) along with restrictions on available car parking at the compounds are proposed to minimise the number of light vehicle movements.



Constraint/ consideration	Key Issues	Overview of mitigation
Narrow local roads (including those used for on street parking), junction constraints and low bridges	Size of construction vehicles and narrow local roads. Increase in HGVs on narrow roads leading to deterioration of road haunches and possible structural failure of the highway.	Optimise the number of vehicles that can utilise the higher class road (the B6478) from Clitheroe to Waddington avoiding narrower roads in surrounding villages. Avoid unsuitable local road network where practical by providing temporary access points and temporary haul roads where reasonably practicable.
		Physical improvement works to the local road network where practical for the duration of the construction works. All works to be completed to relevant appropriate standards and to ensure no unintended secondary impacts to the highway (appropriate drainage, etc.).
		Appropriate proactive maintenance regime to be agreed (to include particular emphasis on areas of concern, e.g. road haunches along narrow road sections).
		Suitable traffic management to be implemented at locations where physical works are impractical.
		Temporary parking restrictions where necessary and alternative parking provision where reasonably practicable.
		Appropriate speed restrictions to ensure safe stopping distances to allow wider vehicles to slow and pass.
		Provision of HGV marshalling area (see Figure A-1-01 in Appendix A1) to allow control of traffic leaving the A59 prior to trafficking the narrower local road network. This will also allow the use of escorted convoys and directional control of vehicles greater than circa 2.55m wide.
Existing highway conditions and	Deterioration of the highway due to increased use by construction	Appropriate inspection and condition survey regime to be agreed.
potential construction traffic impact	vehicles and the resulting safety implications	Appropriate proactive maintenance regime to be agreed (to include particular emphasis on areas of concern, e.g. road haunches along narrow road sections).



Constraint/ consideration	Key Issues	Overview of mitigation
Visibility at temporary access points	HGV visibility and potential for conflict when accessing and egressing the compound	Visibility based on CD 109 (Tables 2.5 and 2.10). Appropriate vegetation clearance, traffic management and speed reduction measures to be implemented to achieve safe access.
Impacts on other road users	As for road safety consideration above. Environmental impacts, amenity	Proposed construction traffic routes maximise use of higher classes of roads. Appropriate traffic management, signage
	impacts and business impacts.	and communications.

Table 2 Summary of constraints and considerations informing traffic route



### 4. Proposed Operation

### 4.1 Anticipated two way movements

Anticipated two way vehicle movements along the proposed construction access routes vary significantly depending upon construction phase and location on the road network.

Figures A-2-01 to A-2-05 in Appendix A2 provide an overview of the average and maximum daily two way movements along each section of the proposed construction access routes during each construction phase. The figures include all anticipated movements (HGV, AIL and Light Vehicles). These should be considered provisional, to be updated on appointment of contractors when a final CTMP is produced. They serve primarily to inform the procurement process and to demonstrate the commitment made by United Utilities to manage construction traffic movements.

The maximum daily two way movements relate to which activities are being completed at each site at a particular time. For example Figure A-2-02 shows a maximum of 52 two way movements per day along route 2 and a peak of 134 two way movements along route 1, however the nature of the construction activities are such that they will not coincide so the maximum shown between Waddington and the Braddup entrance is not the sum of these two maximums.

The maximum two way movements along the B6478 to the north of the Braddup haul road junction during construction phases 2 to 4 include short duration peaks. Such peaks will be the result of an intense period of exceptionally high tunnelling productivity. It is anticipated there could be a 2-3 day period every 3-4 weeks when tunnel progress is such that movements to the quarry will have to significantly increase to prevent on-site arisings storage facilities being overwhelmed.

### 4.2 Timing of construction traffic movements

General construction activities will be limited to Monday to Friday between the hours of 07:00 and 19:00 and Saturdays 07:00 to 13:00.

At this stage it is not possible to fully predict the detailed arrival and departure for HGVs at each site however as part of the Environmental Statement and associated Transport Assessment it has been assumed that traffic will be spread across the working day as follows:

- 06:45 to 08:00 and 18:45 to 20:00 (two shifts) light movements and commuters
- 09:00 to 14:45 and 16:00 to 18:45 Monday to Friday and on Saturday between 08:00 to 13:00 – HGVs and abnormal load movements. Traffic will be restricted between 08:00 to 09:00 and 14:45 to 16:00 Monday to Friday to avoid traffic impact during school drop-off periods.

These times will be reviewed with the local schools and agreed with the relevant local highways authority near the commencement of construction activities to consider the most up-to-date school schedules.

An even distribution of deliveries is proposed throughout the day to avoid excessive hourly demand. The contractor will be responsible for managing the daily demand for deliveries and exports for their own fleet and that of their supply chain partners to ensure they comply with agreed daily traffic profiles (refer to the delivery management system Section 6).

The contractor will be assisted in managing the daily profile of import /export by the provision of stockpile areas at the proposed compounds. These will facilitate advanced planning of deliveries and export, and enable as smooth an import/export profile as possible to be maintained.

There may be a need for abnormal load movements outside of the hours stated above in order to limit the potential for conflict with oncoming traffic. Such movements will be agreed in advance with Lancashire County Council (LCC) Highways as part of a special vehicle movement.



Twelve hour construction shifts are anticipated during the tunnel drives at the launch sites (Newtonin-Bowland, Construction Phases 2 - 4, and Braddup, Construction Phase 3) and at all sites during connection activities. Shift changeovers are likely to represent the daily am and pm peaks in light vehicle movements. It is proposed that shift changeover patterns will be staggered to regulate traffic intensity during this potentially busy period.

### 4.3 Route 1 Operation

To minimise the number of light vehicle movements on the local road network a park and ride facility containing 220 spaces will be established within an area opposite the Ribblesdale Cement Works, West Bradford Road (see Figure A-1-01 in Appendix A1). Construction personnel will arrive at the park and ride before leaving their personal vehicle and travelling to site on a minibus along route 1.

A proposed delivery booking system (detailed in section 6.1) and shift change over patterns will control the number of vehicles using route 1 at any particular time (also see sections 6.3 and 6.6).

Figures B-1-12 to B-1-14 in Appendix B1 show the results of swept path analysis along this section of the MNA.

### 4.4 Route 2 Operation

A marshalling area for HGVs is proposed within Ribblesdale Cement Works, West Bradford Road (see Figure A-1-01 in Appendix A1). This is primarily intended for the control of route 2 traffic that is wider than 2.55m (AILs and tractor units with low loader step trailer [typical width 2.9m]). All such vehicles will assemble here prior to accessing the proposed compounds.

The use of escorted convoys is proposed for such vehicles. Communications between the construction compounds and the HGV marshalling area will ensure that no convoys will be dispatched that have the potential to be travelling in opposing directions along the narrower sections of the local road network.

Analysis of the estimated vehicle movements suggests the need for such convoys will occur during circa 79 weeks of the programme. Over these 79 weeks the average daily two way movements of such vehicles will be 7.5. This suggest that on average 4 convoys of up to two vehicles will be required per day (2 convoys to site and 2 convoys from site). A peak of 29.5 daily two way movements per day of such vehicles is anticipated. This will suggest a maximum of 16 convoys of up to 2 vehicles will be required per day (8 convoys to site and 8 convoys from site).

The figure below illustrates the range of anticipated daily two way movements along route 2.



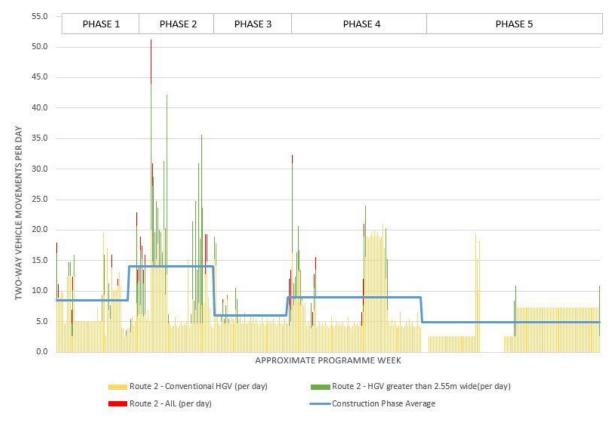


Figure 2 – Range of anticipated daily two way movements along Route 2

As with route 1 the proposed delivery booking system will control the number of vehicles using route 2 at any particular time (also see sections 6.3 and 6.6).

Figures B-1-08 to B-1-11 in Appendix B1 show the results of swept path analysis. From Chatburn to Waddington the route is characterised by stretches of on street parking and narrow sections of road. Along many of the sections the straight alignment enables a safe informal contraflow to operate at such constrictions at present. Where it is considered that these informal arrangements are inadequate the following measures are proposed:

- Proposed local road widening (RW01 RW07)
- Parking restrictions on Ribble Lane (PR01). Additional provisions may be required in Waddington to limit parking to one side of the road (see Figure B-2-15 in Appendix B2). AIL movements, particularly TBM movements will require much shorter term restrictions in other locations (refer to Appendix B3)
- Appropriate speed restrictions to ensure safe stopping distances to allow wider vehicles to slow and pass (see Figure B-2-16 in Appendix B2)
- Vegetation clearance/maintenance
- Consistent messaging about the nature of construction HGV movements warning other road users that vehicles may slow or stop to allow oncoming vehicles to pass. This will include signage on vehicles, road signage and a wide range of communications with residents and any appropriate special interest groups
- Suitable traffic management to be implemented at locations where physical works are impractical or such measures are considered necessary in conjunction with physical works. Examples could include:
  - two way control at Grindleton bridge
  - three way control at the junction between Grindleton Road and East View at RW05 shown on Figure B-1-10 in Appendix B1



- $\circ~$  two way control at the pinch point at West Clough Bridge to the west of RW06 shown on Figure B-1-09 in Appendix B1
- $\circ$  two way control at the pinch points around the 3 Millstones in West Bradford
- $\circ$   $\,$  three way control at the junction between West Bradford Road and the B6478, the Higher Buck, in Waddington

The current proposals are not exhaustive and will be subject to detailed design including appropriate independent safety audits.

To be able to construct the local road widening there may be a requirement for traffic management when constructing the highways works. The detail of what is required, when these will be required and their duration will be confirmed by the construction contractor following appointment.

### 4.5 Material exported to Waddington Fell Quarry

It is proposed that the loading of the HGVs will be monitored at the launch compounds and at the quarry to ensure that HGVs exporting surplus arisings are at full capacity. This will optimise the number of HGV trips generated for surplus arisings removal and ensure that overloaded trucks are prevented from accessing the public highway network (refer also to subsequent sections included under general mitigation).

Figures B-1-01 to B-1-07 in Appendix B1 show the results of swept path analysis. The route is characterised by narrow sections of road along the B6478. Along many of the sections the straight alignment enables a safe informal contraflow to operate at such constrictions at present. Where it is considered that these informal arrangements are inadequate the following measures are proposed:

- Proposed local road widening (RW08 RW28) and reinforcement of existing passing places/parking areas (PP01 PP02)
- Appropriate speed restrictions to ensure safe stopping distances to allow wider vehicles to slow and pass (see Figure B-2-16 in Appendix B2)
- Vegetation clearance/maintenance
- Consistent messaging about the nature of construction HGV movements warning other road users that vehicles may slow or stop to allow oncoming vehicles to pass. This will include signage on vehicles, road signage and a wide range of communications with residents and any appropriate special interest groups
- Convoy system to minimise potential for wider construction vehicles to meet in opposing directions
- Suitable traffic management to be implemented at locations where physical works are impractical or such measures are considered necessary in conjunction with physical works. Examples could include:
  - two way control along the B6478 between the Proposed Bonstone Haul Road Junction and the entrance to the quarry

The current proposals are not exhaustive and will be subject to detailed design including appropriate independent safety audits.

### 4.6 Proposed Compound Accesses

The proposed construction compounds are all in excess of 500m from the proposed haul road junctions with the existing highways. Figure A-1-01 in Appendix A1 illustrates this. Control of access to site will be such that it should not result in construction traffic backing up on the existing highway to access site.

Appendix B2 includes draft details of the proposed junctions including swept path analysis and visibility splays. Where possible a conservative approach to visibility splays has been adopted allowing for higher design speeds than the proposed restrictions detailed in Figure B-2-16.



The current proposals are not exhaustive and will be subject to detailed design including appropriate independent safety audits.



### 5. Existing Road Users

Proposed construction traffic routes maximise the use of higher classes of roads in order to minimise the impact to existing road users. The transport planning assessment (see section 5.1 below) suggests this approach will be appropriate.

Specific mitigation not addressed elsewhere in this document will include:

- Appropriate signage extended to all highway users such as pedestrians, cyclists and equestrian activities. Signage could include warnings for HGV drivers of the presence of nonmotorised users within key areas and also signage for non-motorised users to warn them of the increased presence of HGVs in heavily used areas. The signage for these highway users will be agreed with LCC
- Additional traffic management measures to be implemented as necessary should detailed design identify particular issues in relation to non-motorised road users
- As outlined in Section 6.6 HGV driver training will include tool box talks which will identify the key hotspot areas for non-motorised users, for HGV drivers to ensure their safety.

Sections 5.2 and 5.3 detail specific users that may be affected and for whom the above mitigation will be applicable.

### 5.1 Transport Planning Environmental Statements

The Environmental Statements for the Proposed Bowland and Marl Hill Sections include Transport Planning Environmental Statement chapters (Chapter 16 in both documents). These chapters present an assessment of the potential for likely significant effects of the Proposed Bowland and Marl Hill Sections on traffic and transport. The assessments conclude that the proposed mitigation measures should ensure that effects upon local receptors are limited.

### 5.1.1 Representative vehicle movements versus anticipated vehicle movements

The assessments consider a credible worst case for concurrent activities on the road network (a period during construction phase 2). The assessments consider particular periods at the start and end of the day and a representative 12 hour period. For the representative 12 hour period it can be seen that the numbers of daily two way movements considered are higher than the average daily two way movements identified in Appendix A2 in all cases with one exception. The exception is along the B6478 between Newton and the Bonstone Haul Road Junction during construction phases 2 to 4. Figure A-2-06 is included in Appendix A2 for reference. It is considered that the nature of this existing link and the magnitude of variation will not affect the conclusions made in the assessment.

As set out in section 4.1 the maximum daily two way movements identified in Appendix A2 relate to which activities are being completed at each site at a particular time. As can be seen in Appendix A2 there are occasions where it is anticipated that these will exceed the representative 12 hour movements in the assessment. These typically relate to the short duration peaks in arisings movements anticipated along the B6478. It is considered that the nature of these existing links and the magnitude of variation will not affect the conclusions made in the assessment.

### 5.2 Public Transport

There is a potential impact on driver delay on identified bus services as a result of the increase in traffic movements along the proposed routes. Bus service movements for each compound are detailed below. C1 provides a summary of the identified services which may be affected along the proposed traffic routes.

Following detailed design the Construction Contractor will liaise with the relevant bus companies prior to start on site. Where bus stops are affected appropriate alternative provision will be included as part of any proposed highways modifications and/or temporary works.



### 5.2.1 Route 1

In total 36 bus services have been identified which use all or part of Route 1. These bus services tend to route between Blackburn and Preston, Skipton and Preston, Clitheroe and Blackburn and Clitheroe and Nelson. Across the 36 bus services, during weekdays, 132 bus movements travelling along the route in an inbound direction (eastbound) and 180 bus movements travelling along the route in an outbound direction (westbound) have been identified. During Saturdays, 100 inbound bus movements and 125 outbound bus movements have been identified. The frequency is further reduced during Sundays, where it has been identified that 34 inbound and 62 outbound bus movements occur.

### 5.2.2 Route 2

In total 26 bus services have been identified which use all or part of Route 2. These bus services tend to route between Blackburn and Preston, Skipton and Preston, Clitheroe and Blackburn and Clitheroe and Nelson. Across the 26 bus services, during weekdays, 84 bus movements travelling along the route in an inbound direction (eastbound) and 90 bus movements travelling along the route in an outbound direction (westbound) have been identified. During Saturdays, 64 inbound and 64 outbound bus movements have been identified. The frequency is further reduced during Sundays, where it has been identified that 19 inbound and 20 outbound bus movements occur.

### 5.3 Walkers, Cyclists and Horse riders

There are a number of Public Rights of Way (PRoW) which are intersected by the construction traffic routes to the Newton, Bonstone and Braddup compounds. Whilst it is acknowledged that users may encounter additional traffic when crossing these routes, it is not anticipated that there will be any restrictions or limitations on the use of these PRoWs.

Regional Route 90 Lancashire Cycleway (Northern loop):<sup>1</sup> is a 130 mile (290 km) loop which takes in the Forest of Bowland Area of Outstanding Natural Beauty (AONB), Arnside and Silverdale AONB, the Ribble Valley and Blackpool Pleasure Beach. The route crosses the construction traffic route twice on the A59 near Billington and Whalley and follows Grindleton Road, West Bradford Road (Grindleton), Waddington Road and West Bradford Road (Waddington) and also crossing the B6478 on the outskirts of Waddington.

Regional Route 91 Lancashire Cycleway (Southern loop) is approximately a 130 mile loop which goes through Blackburn, Clitheroe, Burnley and Ormskirk.<sup>2</sup> The route crosses the construction traffic routes along the A59 twice near Pendle Road and just before Pimlico Link Road.

There are two recreational cycle routes which intersect with the construction traffic routes for the Proposed Bowland and Marl Hill Sections these are:

- The Ribble Valley Villages:<sup>3</sup> cycle route is a 29 mile (47 km) route which takes in both contrasting sides of the Ribble Valley. The route follows minor roads and B roads, starting and finishing at Waddington car park. The route takes in a number of places of interest including Downham, Ribchester Roman Museum and Stonyhurst College. The route crosses the construction traffic routes three times on the A59 at Billington, near Pendle Road and just before Pimlico Link Road. The route follows the construction traffic route along Ribble Lane, East View then turns left along Grindleton Road, West Bradford Road (Grindleton), Waddington Road and West Bradford Road (Waddington) before crossing the B6478
- The Clitheroe to Downham:<sup>3</sup> cycle route is a 13 mile (21.5 km) route commencing from Clitheroe Rail Station. The route takes in the villages of Worston, Downham, West Bradford and Waddington before returning to Clitheroe via the Edisford Bridge. The route crosses the

https://www.openroadopenskies.co.uk/self-guided-cycling-holidays/route-90-north-lancashire-loop [Online] [Accessed: March 2021].
 https://www.visitlancashire.com/dbimgs/Lancashire%20Cycleway%20Southern%20Loop.pdf {Online] [Accessed June 2021]
 https://www.visitlancashire.com/dbimgs/Ribble-Valley-Cycle-Map.pdf [Online] [Accessed June 2021]



construction traffic routes once on the A59 just before Pimlico Link Road. The route follows the construction traffic route along Ribble Lane, East View then turns left along Grindleton Road, West Bradford Road (Grindleton), Waddington Road and West Bradford Road (Waddington) before crossing the B6478.

The Tour of Lancashire cycle event<sup>4</sup> is a 162 km route starting from Preston College. The event consists of a long, medium and short route:

- The short route is a 67.7 km route which passes through the rolling Lancashire countryside towards Clitheroe through Sabden, Whalley and back to Preston. The route crosses the construction traffic routes twice on the A59 on Mitton Road and Pendle Road/Clitheroe Road
- The medium route is a 112.3 km route starting at Preston College, skirting the edge of the Forest of Bowland, passing through Inglewhite, Calder Vale and Okenclough, returning through the Trough of Bowland, Clitheroe, Sabden, Whalley and back to Preston. The route crosses the construction traffic routes twice on the A59 on Mitton Road and Pendle Road/Clitheroe Road
- The long route starts from Preston College, skirts the edge of the Forest of Bowland passing through Inglewhite, Calder Vale and Okenclough. The route returns through the Forest of Bowland, Slaidburn, Dunsop Bridge, Clitheroe, Sabden, Whalley and back to Preston. The route crosses the construction traffic routes twice on the A59 on Mitton Road and Pendle Road/Clitheroe Road. The route also goes along Newton Road crossing the access into the Newton-in-Bowland Compound.

The Pendle Witch trail<sup>5</sup> is a 45 mile (72 km) self-guided car, minibus or bike trail. The route starts from the Pendle Heritage Centre in Barrowford passing through Chatburn, Clitheroe, Waddington and Newton before heading towards Dunsop Bridge and Lancaster via the Trough of Bowland. The route follows the A671 and B6478 along the construction traffic routes and along Newton Road across the access to the Newton-in-Bowland Compound.

There are 20 long-distance footpaths located on the traffic routes to the Newton, Bonstone and Braddup Compounds; these are:

- Lancashire Way Central Loop:<sup>6</sup> the Central Loop is the second part of the Lancashire Way. The 100 mile (161 km) route begins and ends in Preston taking in the Ribble Valley to Pendle Hill, the Hodder Valley and the southern half of the Bowland Fells. The route follows the B6478 Hallgate Hill from the River Hodder through Newton close to the temporary haul road across the River Hodder to the Newton-in-Bowland Compound
- Clitheroe 60K:<sup>7</sup> this 37 mile (60 km) route starts from the Ribble Valley, taking in Longridge Fell, the Hodder Valley, Newton, skirting Grindelton Fell to Sawley and Downham, finally traversing Pendle Hill. This route links with the Pendle Way and Ribble Way. The route crosses the construction traffic routes on the A59 near Clitheroe and crosses the temporary haul road to the Newton-in-Bowland Compound
- Hodder Way:<sup>8</sup> this is a 27 mile (43 km) route from the source of the River Hodder on access land near the Cross of Greet to Hodder Foot where it joins the River Ribble. The route passes through the villages of Slaidburn, Newton, Dunsop Bridge, Whitewell, Bashall Eaves and Great Mitton. The route crosses the temporary haul road to the Newton-in-Bowland Compound alongside the River Hodder

<sup>&</sup>lt;sup>4</sup> <u>https://velo29events.com/sportives/tour-of-lancashire-sportive/tour-of-lancashire-long/</u>[Online] [Accessed March 2021]

<sup>&</sup>lt;sup>5</sup> <u>https://www.visitlancashire.com/things-to-do/pendle-witch-trail-lancaster-to-pendle-p51630</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>6</sup> <u>https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Lancashire+Way+-+Central+Loop</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>7</sup> <u>https://ldwa.org.uk/ldp/members/show\_path.php?path\_name=Clitheroe+60K</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>8</sup> <u>https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Hodder+Way</u> [Online] [Accessed June 2021]



- Pendle Witches Way:<sup>9</sup> this is a 46 mile (74 km) route from Sabden in Lancashire through the Ribble Valley and the Forest of Bowland to Lancaster. The route crosses the construction traffic routes on the A59 near Clitheroe
- Pendle and Ribble Round:<sup>10</sup> this is a 20.5 mile (33 km) route crossing Pendle Hill and visiting Downham before returning by riverside and farm paths. The route crosses the construction traffic routes near Whalley on the A59 close to the River Calder and the B6478 close to the River Ribble. The route also follows the construction traffic route through Chatburn along a section of Ribble Lane before turning to follow the River Ribble
- Ribble Way:<sup>11</sup> this is a 70 mile (113 km) route which follows the valley of the River Ribble from the mouth to the source near to the Pennine Way National Trail on Gayle Moor. The route crosses and follows the construction traffic routes for short sections on the B6478 and along Ribble Lane close to the River Ribble
- Lancashire Witches Walk:<sup>12</sup> this is a sustainable 51 mile long distance walk in 2013 commemorating the 400<sup>th</sup> Anniversary of hanging of the Lancashire Witches. The route starts in Barrowford and finishes at Lancaster Castle where the witches were tried. The route crosses the construction traffic route on the A59 near Pendleton, follows the B6478 from Clitheroe over the River Ribble before leaving the road before Waddington, along a short section of the construction route on West Bradford Road/Waddington Road
- Trevine Trail:<sup>13</sup> this is a 54 mile (87 km) walk through the countryside of the lower Ribble Valley, based on Whalley heading to Hurst Green to Clitheroe and returning over Pendle Hill and via Sabden. The route crosses the construction traffic route on the A59 near Mellor Brook, Copster Green, Whalley and near Clitheroe
- Palatine Plod:<sup>14</sup> this is a 380 mile (612 km) long distance walk that aims to reflect the County of Lancashire, prior to 1974 when boundary changes were made. Starting from Liverpool South Parkway Station, it links the most distant towns of Mossley and Barrow-in-Furness, and visits what was Lancashire's highest point The Old Man of Coniston before finishing on Walney Island. The walk has been broken down into 26 stages. The route crosses the construction traffic route on the A59 near Copster Green, just before Pimlico Link Road and on Ribble Lane near the River Ribble. The route also follows the B6478 for a short section along Waddington Road in Clitheroe
- Wainwrights Way:<sup>15</sup> this is a 123 mile (198 km) walk through Alfred Wainwright's life from Lancashire to the Lakes. The walk links the place where he was born a Victorian terraced house in Audley Range, Blackburn with his final resting place on Haystacks, his heavenly corner of Lakeland. The route crosses the construction traffic route on the A59 near Whalley south of the River Calder
- Two Roses Way:<sup>16</sup> this is a 96 mile (154 km) six-day hill walk through Lancashire and the Yorkshire Dales, via the towns of Whalley, Gisburn, Skipton, Malham, Slaidburn and Chipping. The route crosses the construction traffic route on the A59 near Whalley south of the River Calder
- Whalley / Waddington / Wiswell Wander:<sup>17</sup> this is a 24 mile (39 km) route in the countryside west of Pendle Hill visiting Clitheroe, Whalley, Waddington, Wiswell, Pendleton and Great Mitton. The route crosses the construction traffic routes on the A59 twice near Whalley

<sup>11</sup> https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Ribble+Way [Online] [Accessed June 2021]

- <sup>13</sup> <u>https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Trevine+Trail</u> [Online] [Accessed June 2021]
- <sup>14</sup> https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Palatine+Plod [Online] [Accessed June 2021]
- <sup>15</sup> <u>https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Wainwrights+Way</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>9</sup> <u>https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Pendle+Witches+Way</u> [Online] [Accessed June 2021]
<sup>10</sup> <u>https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Pendle+and+Ribble+Round</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>12</sup> <u>https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Lancashire+Witches+Walk</u> [Online] [Accessed June 2021]

 <sup>&</sup>lt;sup>16</sup> <u>https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Two+Roses+Way</u> [Online] [Accessed June 2021]
 <sup>17</sup> <u>https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Whalley+%2F+Waddington+%2F+Wiswell+Wander</u> [Online] [Accessed June 2021]



north of the River Calder and near Clitheroe. The route crosses the B6478 Waddington Road next to the River Ribble and B6478 Slaidburn Road near Daisy Hill. The route follows West Bradford Road between Waddington and West Bradford CofE Primary School and Waddington Almshouses

- Historical Walks through Lancashire and Yorkshire:<sup>18</sup> this is a 146 mile (235 km) route through Lancashire and Yorkshire, linking Lancaster and York. Including visits to the sites of seven castles and three abbeys. The route crosses the A59 twice near Whalley on both sides of the River Calder and the A671 Pimlico Link Road
- Villages of the Ribble Valley:<sup>19</sup> this is a 29 mile (47 km) route through the central sections of the Ribble Valley encircling Clitheroe visiting 12 valley villages including Waddington, West Bradford, Grindleton, Chatburn and the outskirts of Clitheroe. The route crosses the construction traffic route on the A59 near Whalley north of the River Calder, follows the construction traffic route along East View, Waddington Road (West Bradford) and West Bradford Road (Waddington) between Waddington and West Bradford CofE Primary School and turning onto the B6478 to the junction with Belle Vue Lane
- Trans Pennine Way:<sup>20</sup> this is a 102 mile (164 km) route linking the Forest of Bowland and Nidderdale AONB's taking a line through Pendle Country, Haworth, Ilkley Moor, Washburn Valley, Pateley Bridge and the area of Brimham Rocks. The route crosses the construction traffic route on the A59 near Pendleton
- Blackpool to Bridlington (Aerospace Way):<sup>21</sup> this is a 148 mile (238 km) low-level coast to coast route connecting the Lifeboat stations at Blackpool and Bridlington. The route crosses the construction traffic route on the A59 near Clitheroe just before the turn to Pimlico Link Road
- North West Way:<sup>22</sup> this is a 191 mile (307 km) route which starts in Preston following the Ribble Way through Ribchester and Hurst Green to Gisburn before picking up the Pennine Way at Malham then connecting to the South Tyne Trail and Hadrian's Wall National Trail before finishing in Carlisle. The route follows the construction traffic route for a short section along East View close to the River Ribble and a short section along the B6478 Waddington Road close to the River Ribble
- Forest of Bowland Walk:<sup>23</sup> this is a 68 mile (109 km) circular walk around the Forest of Bowland AONB in Lancashire from Caton. It visits Slaidburn, Clitheroe and Garstang before returning to Caton. The route crosses the construction traffic route on the B6478 Waddington Road close to the River Ribble and the Waddington Road in West Bradford close to West Bradford Brook
- Red Rose Trail:<sup>24</sup> this is a 112 mile (180 km) route around the North of Lancashire starting and finishing by Lancaster Castle via Garstang, Kirby Lonsdeale, Chipping, Whitewell, Waddington, Slaidburn, Wray and Silverdale. The route follows the construction traffic route for a short section along East View to cross the River Ribble, West Bradford Road (Waddington) between Waddington and West Bradford CofE Primary School and turning onto the B6478 to the junction with Belle Vue Lane

<sup>&</sup>lt;sup>18</sup> https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Historical+Walks+through+Lancashire+and+Yorkshire [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>19</sup> <u>https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Villages+of+the+Ribble+Valley</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>20</sup> <u>https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Trans+Pennine+Way</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>21</sup> <u>https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Blackpool+to+Bridlington+%28Aerospace+Way%29</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>22</sup> <u>https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=North+West+Way</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>23</sup> <u>https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Forest+of+Bowland+Walk</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>24</sup> <u>https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Red+Rose+Trail</u> [Online] [Accessed June 2021]



Lancashire Monastic Way Upholland to Sawley Abbey:<sup>25</sup> this is a 69 mile (111 km) two section walk linking many of the medieval monastic sites of Lancashire and South Cumbria, beginning in south Lancashire at Upholland and making its way up to Furness Abbey in Cumbria. The first section finishes at Sawley Abbey. The route crosses the construction traffic route twice on the A59 near Whalley on either side of the River Calder. The route follows the traffic route for a short section along East View to cross the River Ribble and a short section along the B6478 Waddington Road close to the River Ribble.

There are a number of recreational trails on the construction traffic routes to the Proposed Bowland and Marl Hill Sections; these include:

- River Ribble via Old Park Wood and Mercyfield Wood Loop:<sup>26</sup> this is a 11.6 km loop near Clayton Le Dale. The trail is primarily used for hiking, walking and running. The route follows the construction traffic routes along the A59 between Osbaldeston and Clayton Le Dale
- Ribble, Dinckley and Copster Green:<sup>27</sup> this is a 7.1 km loop near Little Mitton. The trail is primarily used for hiking, walking and running. The route follows the construction traffic route for a very short section along the A59 near Copster Green
- Ribble Circular:<sup>28</sup> this route is a 27.5 km loop near Blackburn. A route that can be used by walkers, cyclists and horse riders. The route crosses the construction traffic route along the A59 at four points near Northcote, Billington, Nethertown and Barrow
- Whalley and Wiswell:<sup>29</sup> this is a 6.6 km loop located near Clitheroe. The trail is primarily used for hiking and running. The route crosses the construction traffic route along the A59 at two points near Whalley and Wiswell
- Whalley and Garstang:<sup>30</sup> this is a 72.9 km loop near Clitheroe. The trail is primarily used for road biking. The route crosses the construction traffic route on the A59 twice close to Nethertown and Billington
- Wiswell and Clitheroe:<sup>31</sup> this is a 10.3 km loop near Clitheroe. The trail is primarily used for hiking, walking and running. The route crosses the construction traffic route on the A59 twice close to Barrow/Wiswell
- Ribble Way Section 3: Clitheroe to Gisburn:<sup>32</sup> this is a 19.3 km point to point trail near Clitheroe primarily used for hiking and walking. The route crosses the construction traffic routes on the B6478 Waddington Road near Brungerley Park and crosses/follows East View across the River Ribble
- Clitheroe Circular:<sup>33</sup> this is a 10.8 km loop near Clitheroe the trail is primarily used for walking and running and is accessible year-round. The route crosses the construction traffic routes twice on the A59 near Pendle Road and Pimlico Link Road. The route also follows Pimlico Link Road up to Worston Brook
- Grindleton, Chatburn, Sawley Circular:<sup>34</sup> this is a 9.2 km loop near Clitheroe. The trail is primarily used for hiking, walking and running. The start and end of the trail is on East View. The route follows the construction traffic route along East View crossing the River Ribble then into the fields following the River Ribble

<sup>25</sup> 

https://ldwa.org.uk/ldp/members/show\_path.php?menu\_type=S&path\_name=Lancashire+Monastic+Way+Upholland+to+Sawley+A bbey [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>26</sup> https://www.alltrails.com/explore/trail/england/lancashire/river-ribble-via-old-park-wood-and-mercyfield-wood-loop [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>27</sup> <u>https://www.alltrails.com/explore/trail/england/lancashire/ribble-dinckley-and-copster-green</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>28</sup> <u>https://www.alltrails.com/explore/trail/england/lancashire/ribble-circular</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>29</sup> https://www.alltrails.com/explore/trail/england/lancashire/whalley-and-wiswell [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>30</sup> <u>https://www.alltrails.com/explore/trail/england/lancashire/whalley-and-garstang</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>31</sup> https://www.alltrails.com/explore/trail/england/lancashire/wiswell-and-clitheroe [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>32</sup> <u>https://www.alltrails.com/explore/trail/england/lancashire/ribble-way-section-3-cllitheroe-to-gisburn</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>33</sup> <u>https://www.alltrails.com/explore/trail/england/lancashire/clitheroe-circular</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>34</sup> https://www.alltrails.com/explore/trail/england/lancashire/grindleton-chatburn-sawley-circular [Online] [Accessed June 2021]



- Grindleton and Harrop Fold:<sup>35</sup> this is a 14.5 km loop located near Clitheroe. The trail is primarily used for hiking, walking, nature trips and bird watching. The route follows alongside a short section of the B6478 Slaidburn Road close to Waddington Fell
- Dunsop Bridge to Slaidburn:<sup>36</sup> this route is a 9.3 km point-to-point trail near Clitheroe. This trail is primarily used for hiking, walking and nature trips. The route crosses the temporary haul road to the Newton-in-Bowland Compound
- Dunsop Bridge and Newton Circular:<sup>37</sup> this route is a 11.4 km heavily trafficked loop trail located near Slaidburn. The trail offers a number of activity options and is best used from March until October. Dogs are also able to use this trail. The route crosses the temporary haul road to the Newton-in-Bowland Compound twice
- Slaidburn Circular Walk:<sup>38</sup> this is a 10.1 km-loop trail near Slaidburn. This trail is primarily used for hiking, walking and bird watching. The route follows the B6478 Hallgate Hill for a short section across the River Hodder close to the temporary haul road to the Newton-in-Bowland Compound
- AA walks Clitheroes River and Castle:<sup>39</sup> is a 6.1 km route which starts and finishes on Milton Avenue, Clitheroe and follows a section of the River Ribble. The route crosses the construction traffic route twice on Waddington Road close to the River Ribble
- Trail Magazine Forest of Bowland:<sup>40</sup> is a 22 km loop from Dunsop Bridge via Whin Fell and Whitendale. The trail is used for mountain biking. The route crosses the southern extent of the Newton-in-Bowland Compound.

The British Horse Society Equestrian Access Mapping DOBBIN<sup>41</sup> records no formal routes near the construction traffic routes to the Newton, Bonstone and Braddup compounds however it does identify a couple of potential unrecorded ways that intersect the construction traffic routes:

Project2026 is a national web based project with the aim of identifying routes which are
potentially unrecorded public rights of way with a view to submit Definitive Map
Modification Order Applications that will otherwise be extinguished under the CROW Act
2000 in 2026. These are not formal routes but have been submitted by members of the
public which identifies potential usage in the area, however this may not be by horse riders.
The key areas that intersect with the construction traffic routes are on the B6478 Slaidburn
Road near Grindleton Fell and on the B6478 Hallgate Hill near the River Hodder.

There are also stables located close to the construction traffic routes on the A59 near Langho (Longsight Stables) and near Northcote Road (Northcote Stud).

Although there are numerous formal PRoWs, cycleways, trails and footpaths within the area many non-motorised users will use the local road network to walk, cycle or for horse riding rather than following a formal path. Therefore consideration has been given to the local attractions in the area that may encourage general non-motorised user activity and potential desire lines that interact with the construction traffic routes.

The Proposed Bowland and Marl Hill Sections and the construction traffic routes north of Waddington are located within the Forest of Bowland AONB. There are areas of access land (under the Countryside and Rights of Way Act 2000) located between the Bonstone and Braddup compounds.

<sup>39</sup> <u>https://osmaps.ordnancesurvey.co.uk/route/514961/AA-Walks-Clitheroes-River-and-Castle</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>35</sup> https://www.alltrails.com/explore/trail/england/lancashire/grindleton-and-harrop-fold [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>36</sup> https://www.alltrails.com/explore/trail/england/lancashire/dunsop-bridge-to-slaidburn [Online] [Accessed March 2021]

<sup>&</sup>lt;sup>37</sup> https://www.alltrails.com/explore/trail/england/lancashire/dunsop-bridge-and-newton-circular [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>38</sup> <u>https://www.alltrails.com/explore/trail/england/lancashire/slaidburn-circular-walk</u> [Online] [Accessed March 2021]

<sup>&</sup>lt;sup>40</sup> <u>https://osmaps.ordnancesurvey.co.uk/route/515839/Trail-Magazine-Forest-of-Bowland</u> [Online] [Accessed June 2021]

<sup>&</sup>lt;sup>41</sup> <u>https://www.bhsaccess.org.uk/dobbin/</u> [Online] [Accessed June 2021]



There are a number of green spaces, recreational areas, tourist facilities, food establishments, schools and places of worship directly along the construction traffic routes which may act as an attraction for non-motorised users including:

- Along the A59 St Mary's and St John Southworths RC Church, Huntleys farm store and outlet village, Samlesbury Sports and Social Canberra Club and Fitness Centre, Bay Horse Inn, St Mary's Roman Catholic Primary School, Osbaldeston, St Mary's Catholic Church, Mrs Dowsons Farm Park, Tiggis Ribble Valley Bar and Restaurant, Shajan Indian Restaurant and YU Copster Green Restaurant and Bar
- Along Chatburn Road Clitheroe Community Hospital, Clitheroe Royal Grammar School, Clitheroe Leisure/Clitheroe Cricket Club and general shops/takeaway
- B6478 Clitheroe Royal Grammar School and Sixth Form Centre, various small shops and takeaways, Clitheroe Cemetery, Brungerley Park, Waddow Hall, Waddington Village Club, local shops/post office, Waddington Methodist Church and St Helen's Church
- Clitheroe Road/Ribble Lane Shackletons Garden Centre, Chatburn post office and retail outlets
- Grindleton Road/Waddington Road/West Bradford Road (Waddington) West Bradford Village Hall, playing fields and play area, St Catherine's Church and West Bradford C of E Primary School.

There are also a number of hotels, holiday lets, B&B accommodation and a Caravan Park directly along the construction traffic routes which may increase the number of non-motorised users, these include:

- Along the A59 Samlesbury Hotel, Bluebird Inn, Northwood Caravan and Holiday Park, Rose Cottage B&B and Fenwick Arms
- B6478 Waddington Arms Hotel and Restaurant, Higher Buck and Sunnybrook Cottage
- Waddington Road 3 Millstones Inn

Annual events in the area include the Newton-in-Bowland Duck Race, an annual event held around the start of May each year at Newton Bridge/Newton Village Hall. Further consideration has been given to planned events in Section 6.7 below which provides bespoke mitigation.

The main areas of pedestrian movements is likely to be along the A59 particularly near Mellor Brook, Copster Green, Nethertown/Whalley, Wiswell, Pendleton, Billington, Northcote, Barrow and Clitheroe. Pedestrian movement is also likely within Clitheroe, Chatburn, outskirts of Grindleton, West Bradford and Waddington where there are a number of likely origins and destinations for pedestrian movements. There are footways either side of the A671 Chatburn Road and along B6478 Waddington Road as it passes through this area. Some of the longer footpaths use the B6478 for example on Waddington Road from Clitheroe over the River Ribble. There are a number of Public Rights of Way (PRoW) which terminate and cross the A671.

There are footways on either side of the road of the A671 Chatburn Road/ Clitheroe Road which is a populated area and along Ribble Lane in Chatburn as it passes through this area. There are a number of PRoWs which terminate onto the A671, Ribble Lane, Grindleton Road/West Bradford Road but do not cross it. There are also a number of long distance footpaths that follow Ribble Lane, East View, Waddington Road (West Bradford), West Bradford Road (Waddington) from Waddington to West Bradford C of E Primary School and following the B6478 to the junction with Belle Vue Lane. There are also a number of routes near the River Hodder close to the temporary haul road to the Newton-in-Bowland Compound.

The main area of cyclist movement is likely to be crossing the A59 around Billington, Nethertown/Whalley, Mitton Road, Pendle Road and just before Pimlico Link Road. Other key routes that are used include Ribble Lane, East View, Grindleton Road, West Bradford Road (Grindleton), Waddington Road and West Bradford Road (Waddington) then crossing the B6478 and Newton Road.



HGVs will have to ensure the safety of pedestrians, cyclists and equestrians in all places along the routes however these key hotspot areas will need particular attention. This list is not exhaustive and other key hotspot areas may be identified during detailed design where they will be incorporated into the proposed mitigation as outlined in section 5 above.



### 6. Management and Control: Processes and Measures

### 6.1 Delivery Management System

The contractor will be responsible for managing the daily demand for deliveries and exports for their own fleet and that of their supply chain partners to ensure they comply with agreed daily traffic profiles. They will facilitate this through the use of a delivery management system. This will include a booking system for deliveries. The booking system will require the contractor and supply chain partners to pre-book slots for deliveries in advance, with only a small number of slots reserved for late changes and unplanned deliveries thereby enabling a daily profile to be maintained within assessed levels.

As part of the measures to ensure compliance the contractor will consider any delivery arriving that has not been planned within the delivery management system a non-conformance and subject to refusal of entry to the site at the contractor's sole and absolute discretion.

### 6.1.1 Driver Communication

As part of the delivery management system the contractor will implement a logistics communication system for construction vehicle movements. This will also assist in enabling a daily profile to be maintained within assessed levels and allows for contingency if circumstances change and delivery arrangements need to be amended or cancelled at short notice.

The delivery management system will outline the requirements for adherence to delivery time windows throughout a given day and the delivery driver will be provided with this information. Forward communication will be made by the haulier or vehicle driver to the specific site to ensure the vehicle will arrive at the correct time.

Best practice methods of providing the correct route information to HGV drivers are considered to utilise satellite navigation based routing apps that are preloaded into vehicle navigation systems and will be implemented as far as reasonably practicable.

### 6.2 Parking Restraint

Restricted employee parking will be permitted at the proposed construction compounds during the construction period. A minimal number of spaces will be reserved for senior staff and visitors, buses/mini-buses and registered disabled employees.

All parking bays located at the proposed construction compounds will be clearly marked to facilitate the monitoring of use and of 'double' parking. To prevent overspill parking onto adjacent highway, personnel will not be permitted to enter the site on foot unless by prior arrangement (for instance for genuine walking trips).

### 6.2.1 Non-motorised Access to Site

Personnel that can access the site by walking or cycling will not be discouraged. For cyclists, adequate parking (to be determined once employee demographics are established) and facilities will be provided. Walkers will be permitted direct access to site providing they can demonstrate they are within a reasonable access distance (i.e. they are not transferring from a car parked in a non-designated area off-site).

### 6.3 Route Compliance

To ensure that HGVs use the designated routes the following measures are proposed:

• Direction signing for the identified delivery routes will be implemented. Signage will be installed as per the requirements of "The Traffic Signs Regulations and General Directions 2016". The proposed temporary signage arrangements will remain in place until the



completion of the project element that requires the construction vehicle routes and the return to normal road conditions

- The delivery routes will be communicated by the contractors to all individuals and companies involved in the transport of materials and plant to and from site
- An information pack will be distributed to all individuals involved in the transport of materials. The pack will be a convenient size so it can be stored in a truck cab. The pack will include key information on delivery routes, procedures for dealing with emergencies, and disciplinary measures for non-compliance
- All suppliers and drivers will be required to provide details (registration numbers/markings) of their fleet to the contractor. This will allow for checking and enforcement of any reported breaches of the agreed delivery routes.

### 6.4 Managing Highway Condition

To ensure that the impact of HGV traffic will not have a long term negative impact upon the structure of the highway network a precondition survey will be undertaken of all sections of routes to be used by HGV traffic that are considered particularly vulnerable to the proposed increase in traffic. Specifically this will include:

- all roads along Route 2 from Ribble Lane, Chatburn to Waddington
- the B6478 from Waddington to the Hodder Crossing, Hallgate Hill
- Newton Road at the proposed crossing point at the Newton-in-Bowland Compound

The following will be implemented:

- A pre-condition survey of the carriageway surface, edges and verges and associated infrastructure on the nominated haulage and access routes will be completed and its findings recorded and shared and agreed with LCC prior to start on site. The survey will utilise cores of the existing highway asset to assess the existing road condition and necessity for any 'preventative maintenance' identified. In addition to undertaking cores a visual inspection and photographic record will also be undertaken
- The inspected sections will also be subject to a visual inspection and photographic records of the carriageway haunch, recognising the limitations on space available for HGVs to pass along some sections of the routes
- Periodic highway condition inspections will be conducted over an agreed life cycle of the project by the contractor at a frequency and in a format agreed with LCC and the findings promptly shared with LCC
- Any works that are deemed required to maintain the highway standards for all road users will be at the agreement of the contractor and LCC
- A wheel washing facility will be provided at tunnel drive site locations or where a high frequency of HGV traffic may occur. The use of road sweepers will be deployed as required to keep the carriageway surface clean although this is only anticipated in the locality of the construction site access points. Additionally all temporary haul road surfaces will include hard surfacing and, as appropriate, loads will be covered.

### 6.4.1 Gritting

For the existing highway network that is used by the proposed routes all roads at the time of writing are priority roads for salting and snow clearing by LCC.

### 6.5 Traffic Management

Traffic management on all highways and roads will comply with the UK Government's Code of Practice 'Safety at Streetworks and Roadworks' (DfT, 2013) and any other relevant legislation and



guidance as appropriate at the time of implementation. Traffic management will be agreed with LCC prior to the commencement of works.

Traffic management signage will be in accordance with the Traffic Signs Regulations and General Directions (TSRGD) 2016 and Traffic Signs Manual Chapter 8.

### 6.6 Driver Training

The Contractor will establish and maintain a HGV Driver Training Programme. The programme will have documented procedures. The Contractor's procedures for driver training will provide drivers with clear and concise guidance and assistance relating to the core aspects of a driver's responsibilities, tasks and risks. This process will be monitored periodically for compliance.

Professional HGV and PCV drivers are required, by law, to obtain a Certificate of Professional Competence and must complete 35 hours of periodic training every five years to retain the certificate. Upon meeting this criterion drivers are issued with a Driver Qualification Card (DQC) and are required to carry it at all times while driving professionally.

The training programme will offer appropriate training to drivers to help them to maintain their Certificate of Professional Competence, this training could be tailored to address some of the challenges of driving along the proposed routes, such as driving during adverse weather. All drivers of HGVs and PCVs will be required to present a valid DQC to security when delivering to any site.

The Contractor's methods for undertaking HGV driver training will also include the following:

- All HGV and PCV drivers will have to complete the contractor's HGV Driver Induction that will include explicit guidance upon the safe use of the proposed routes
- The proposed information pack (Section 6.3 above) will include a personal guidance document (a "HGV Driver's Handbook") the induction procedure will include clear guidance upon what is included in the pack
- All HGV drivers will have to attend a mandatory prestart briefing such as a Tool Box Talk. The purpose of which will be to communicate a sense of responsibility, encouraging higher driving standards by explaining the importance of compliance. The Tool Box Talk will also provide drivers with information about key hotspot areas for non-motorised users along the routes
- At the end of each Tool Box Talk, a declaration will have to be signed by each driver in attendance and retained by the Contractor
- Frequent HGV drivers working on the project will have to participate in a mandatory toolbox talk as a minimum once per calendar month
- Any HGV driver on the project failing to satisfy these requirements will be refused entry to all construction sites until they have complied with the minimum requirements
- The Contractor will be responsible for the routine audit of its Haulage Contractors, and of their sub-contractors, to ensure these requirements are being met
- Any driver of any vehicle in contravention of the project rules established for control of use of local haulage and access routes will be subject to project disciplinary procedures. This process will be made clear to all at project induction.

### 6.7 Network Resilience

It is possible daily HGV traffic demand could impact on the highway network resilience during unplanned events such as flooding, accidents etc. These concerns equally apply to significant local planned events such as the Hodder Valley Show and Newton Duck Race. The table below provides a summary of these concerns, and details measures proposed to mitigate these impacts.



Event	Mitigation
Managing traffic demand during bank holidays and planned events.	Stockpiling will enable advanced planning to ensure there are limited HGV movements during bank holidays and planned major events.
Managing traffic demand during major incidents such as accidents on the highway.	The contractor will liaise with local Police to establish a line of communication with regard to road traffic incidents. Should the contractor be notified of an incident then they will liaise direct with suppliers to suspend HGV deliveries along affected routes. Those deliveries en route from the sites /suppliers that cannot be recalled will then be accommodated onsite or at the HGV marshalling area until the incident is cleared.
Incidents involving HARP HGV traffic blocking the highway, such as, breakdowns, accidents, etc.	Contractors/suppliers will be expected to only utilise hauliers that have existing arrangements with recovery services.
Roads that are closed/unpassable e.g. heavy snow, flooding, etc.	During periods where roads may be closed or become unpassable by HGV traffic, the strategy of maintaining a stockpile of imported material and material for export will allow hauliers to suspend deliveries until such point as the roads are cleared. The approach may not negate the potential for adverse impact upon the construction programme depending upon the severity of the event but contractual arrangements will be in place to manage this.

Table 3 Planned and unplanned event mitigation

### 6.8 Managing Road Safety

Managing road safety underpins all the mitigation outlined in this document. United Utilities believe nothing we do is worth getting hurt for. To bolster this it is proposed that a strategy to mitigate potential emerging road safety issues is embedded within the CTMP.

This will place a requirement on the contractor to record all accidents and near misses and regularly report to transport stakeholders (see Section 7). These reports will be supported by police data on accidents and, if emerging issues were identified, proposals will be progressed and if approved (refer to section 7), funding will be made available to implement targeted mitigation under an agreement with the contractor.

It is anticipated intervention will attempt to minimise 'hard' highway engineering solutions. This is in line with an aspiration to establish a sustainable and proportionate approach to help ensure that the character and distinctiveness of the AONB is retained as far as is reasonable practicable. Instead the focus will be applied to education, training and publicity. The types of mitigation that could be employed include:

- Additional police enforcement (e.g. mobile cameras on the B6478)
- Public awareness of the dangers of overtaking



• Training – e.g. funding some Pass Plus driving course aimed at appropriate demographics.



### 7. Monitoring, Review and Improvement

### 7.1 Monitoring Strategy

The HGV and construction worker movements associated with the proposal will be continuously monitored through one of, or any combination of, the following:

- the use of a permanent classified Automatic Traffic Counter (ATC) positioned at the proposed compound and HGV marshalling area accesses
- Automatic Number Plate Recognition (ANPR) cameras positioned at the proposed compound and HGV marshalling area accesses
- physical records being taken by site entrance gate staff.

Technological means of monitoring haul route compliance will be investigated including:

- The potential to install ANPR cameras at key locations on the highway network. If feasible/desirable digital ANPR data could be shared in real-time with LCC highways for compliance monitoring purposes
- The use of digital systems such as GPS tracking being stipulated as mandatory for use within the contractors and hauliers vehicles.

If more advanced technological means do not prove to be a feasible option a simple ATC loop in appropriate locations will be used to detect an increase in HGV trends.

It is proposed that for the duration of the five construction phases, monthly traffic count data will be collated by the contractor. Undertaking this monitoring on a monthly basis will ensure that any issues are identified at an early stage and dealt with promptly; in addition discrete data can be extracted to address any stakeholder complaints.

Contractors will be responsible for maintaining detailed delivery schedules and these will serve to augment the traffic counts to give a complete evidence base.

Contractors will be responsible for ensuring that details of any accidents or near misses on the public highway are reported and collated.

The monitoring of personnel movements will take the form of instigated spot surveys to determine car park occupancy and collation of staff feedback and stakeholder complaints.

Appointed construction contractors will adopt a robust monitoring system to ensure all proposed speed limits are adhered to. This will be undertaken by recording physical measurements of vehicles on the highway at random intervals.

It is proposed that construction workers, contractors and suppliers will be provided with appropriate communications channels (for example a dedicated email address) to allow for feedback or ideas and recommendations to address any gaps or constraints in the CTMP.

### 7.2 CTMP Management Structure

A management structure will be developed to oversee the implementation of the CTMP, monitoring and enforcement of construction traffic movements.

### 7.2.1 HARP Highways Stakeholder Group

A Highways Stakeholder Group (HSG) will be convened throughout the construction of the development between the construction contractor(s) and appropriate representatives from a range of departments/disciplines from the following organisations on a bi-monthly basis or as agreed by the group, dependent on the progress of work:

• Contractor



- United Utilities
- Lancashire County Council
- Specialist ad-hoc attendees, such as Highways England, transport providers and other elements of the supply chain, local community representatives, emergency services and other developers progressing major schemes within the area.

The group's principal responsibility will be to review monitoring reports and direct action as necessary.

This Stakeholder Group will facilitate the successful operation of both the local and strategic highway networks during the construction period, particularly in regard to the following:

- Understanding the coincidence of other construction programmes
- Understanding the potential for coincidence of construction works in the highway associated with the Proposed Bowland and Marl Hill Sections and other construction projects e.g. any requirements for closure
- Understanding the planned maintenance programmes of LCC Highways, Highways England and other undertakers that may have a bearing on the Proposed Bowland and Marl Hill Sections construction programmes.

### 7.2.2 Local Community Input

Local community groups (e.g. Parish Councils, special interest groups) will be made aware of the HSG as a vehicle for collating and investigating enquires from the public.

The contractor will engage local community groups in a communication and dialogue process. The following will be implemented by the contractor or acceptable variants thereof:

- Establish a community engagement group, which will meet at regular intervals throughout the duration of the project. Representatives of local community groups will have direct engagement and dialogue with the contractor to express views and work collaboratively along with the HSG to resolve any issues
- The contractor's community engagement group will provide project updates and status and inform the community on upcoming events on the project that may have an impact and develop the best mitigating solutions
- The contractor's community engagement group will provide regular communication using digital media, social media, letter drops, newsletters, etc.
- A free phone community contact number will be available 24 hours a day 7 days a week for the duration of the works along with other appropriate communications channels (e-mail, social media platforms, etc.). These communication channels will be made available prior to the commencement of the project. The contractor's community engagement group will keep records of any communications and ensure they are made available to the HSG.

### 7.2.3 Travel Plan Co-ordinator

A Travel Plan Co-ordination team led by Travel Plan Co-ordinator (TPC) will be appointed by Contractor and contact details will be submitted prior to the commencement of works. Their responsibilities will include:

- managing the implementation of the CTMP
- report the monitoring of the CTMP to the HSG
- to act as a point of contact for the local community (both in leading the community engagement group and handling direct communications) and report feedback to the HSG
- to act as a point of contact for construction workers, sub-contractors and the general public
- Engage in direct and regular dialogue with Lancashire Police and other relevant emergency service stakeholders to implement and comply with the CTMP. They will be in regular communication with the police to manage abnormal load and STGO regulation vehicle movements.



In addition, the TPC will establish an open and collaborative dialogue with LCC that could be conducted at any time via email, phone and other means of communication as appropriate.

### 7.2.4 Communication

The Travel Plan Co-ordinator will act as a key link between all parties involved with the CTMP. They will report on the monitoring survey data of the CTMP to the HSG, as well as reporting feedback from the local community, contractors, construction workers and staff groups. They will also then be responsible for communicating any corrective action taken by the HSG.

### 7.3 Review of the Strategy

The objective of the review will be to assess the success of the CTMP and to identify the potential for further initiatives. The TPC will be responsible for undertaking the review and for producing a quarter year monitoring report. Successive reports will form appendices to the CTMP document available to stakeholders on request.

Data recorded from the monitoring process will be drawn together to produce a quarterly monitoring report, thereby allowing the TPC to identify effective / ineffective measures and the requirement for any remedial action to be undertaken to achieve the agreed targets. The results will then be reported to the HSG so that it may be reviewed and any corrective action can be agreed.

The review process will also allow the appropriateness of the monitoring programme to be assessed and amendments to be proposed where necessary.

### 7.3.1 Quarterly Monitoring Report

The quarterly monitoring report will be structured using the following headlines:

- Introduction and Background this should provide detail with regards to the number of construction workers at each site (total and per shift) and number of parking spaces provided, etc.
- Results of Surveys and Monitoring the TPC should detail the results of the surveys and monitoring that have been undertaken. Where appropriate, the results of the surveys undertaken will be compared to indicators defined in the CTMP, including current travel situation and target levels. Data obtained from the surveys should be included as an appendix
- Achievements this should include the work undertaken over the previous three month period with evidence and examples
- Specific Measures this should detail how all measures from the CTMP have been implemented in terms of infrastructure, policy and promotion for each specific travel mode and strategy (walking, cycling, Park and Ride, car sharing plus general measures and working practices). Evidence of how each measure has been implemented will be required
- Summary the TPC should detail whether the CTMP is on track to meet its targets and if not, why not
- Future Plan this should detail the CTMP for the next three month period to include any specific outcomes or desired results with any additional measures that are to be included to remediate action.



### 8. Enforcement

### 8.1 Introduction

This section provides a summary of the mechanisms that will ensure that the CTMP is effectively enforced.

### 8.2 Potential Breaches

To ensure that the aims of the CTMP can be effectively enforced it is important to define what will constitute a breach. The CTMP therefore considers that the following will constitute a breach of the CTMP whereby corrective measures will be required:

- Construction workers overspill parking on the public highway, rather than parking in marked bays at the HARP sites
- HARP construction traffic exceeding agreed thresholds
- HARP construction traffic operating outside of agreed hours
- HARP construction HGVs and buses not adhering to the agreed access routes
- HARP construction traffic being driven inappropriately, e.g. speeding
- HARP construction traffic and buses not displaying an agreed unique identifier.

### 8.3 Corrective Process

On receipt of a report of a potential breach the TPC will investigate the circumstance and compile a report for the HSG. The report will outline the outcome of the investigation and what corrective action had been implemented. A three stage correction process is proposed:

- Stage one This will be a formal contractor warning at this stage
- Stage two If a further material breach is identified the contractor will be given a further warning and required to produce an action plan to outline how the issue will be rectified and any additional mitigation measures proposed
- Stage three Should further breaches still occur the contractor will be required to remove the offender from site and the contractor/supplier will receive a formal warning. Any continued breaches by individuals of the supplier/contractor may be dealt with by the formal dispute procedures of the contract.

Individual employee breaches will be addressed through UK employment law whereby the three stage process outlined will form the basis for disciplinary proceedings.

Stage one and two of the corrective process may require any offending individual to attend a driver improvement course during their own time. They may not be able to resume work on the HARP until a relevant course has been attended. This will apply to drivers of HGVs and PCVs.

### 8.4 Contract Intervention

Provisions of the CTMP will form part of the contractual agreement between United Utilities and its contractors. Each will therefore need to comply with required aspects of the CTMP, individually and together, examples of which are set out as follows:

- agreed HGV thresholds
- the haul routes
- the booking system
- the monitoring regime
- parking management
- the AIL management
- the corrective measures