Kirklees Council

TCF HECKMONDWIKE BUS HUB, WEST YORKSHIRE

Outline Construction Environmental Management Plan

70056810 CEMP
JULY 2022

PUBLIC

Kirklees Council

TCF HECKMONDWIKE BUS HUB, WEST YORKSHIRE

Outline Construction Environmental Management Plan

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DATE: JULY 2022

Kirklees Council

TCF HECKMONDWIKE BUS HUB, WEST YORKSHIRE

Outline Construction Environmental Management Plan

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1. INTRODUCTION

1.1. BACKGROUND

1.1.1. WSP UK Ltd. (WSP) was commissioned by Kirklees Council (KC) (the 'Applicant') to prepare an Outline Construction Environmental Management Plan (OCEMP) for a proposed Heckmondwike Bus Hub Scheme (hereafter referred to as the 'Proposed Scheme'), Heckmondwike, West Yorkshire, approximately 12km southwest of Leeds. The Proposed Scheme comprises transformational change at Heckmondwike Bus Hub, enhancing the public realm, improving safety of bus patrons, and enhancing connectivity with the surrounding walking and cycling network.

1.1.2. The Transforming Cities Fund (TCF) comprises a £317m programme of investment that aims to deliver a transformational programme of new infrastructure and help create a step change in travel across the Leeds City Region (LCR). The West Yorkshire Combined Authority's TCF Vision is: "*to support delivery of inclusive growth across the Leeds City Region, through an innovative and coordinated walking, cycling and bus package, which provides genuine sustainable and healthy travel options for our communities along our corridors of greatest economic need, and transforms accessibility from new development sites and accommodates growth at key public transport hubs*."

1.2. BACKGROUND TO THE PROJECT

1.2.1. The Proposed Scheme would reconfigure the existing bus station and provide new facilities to encourage sustainable transport measures. The Proposed Scheme comprises a new 'fit for purpose' bus station at Heckmondwike to provide increased capacity for bus services, improved interchange opportunities, improved waiting environment, and improved access to information.

1.3. PURPOSE AND CONTENT

1.3.1. The document is an OCEMP and provides an overarching framework for the environmental management during the construction works.

1.3.2. This OCEMP sets out the overarching principles for demolition and construction management of the Proposed Scheme and aims to:

- Provide an overview of the methodology to be adopted during demolition and construction of the Proposed Scheme;
- Outline the environmental constraints on and around the Site and the potential impact on these;
- Ensure that mitigation measures are implemented during demolition and construction;
- Ensure that industry best practice standards are adopted throughout the demolition and construction of the Proposed Scheme; and
- Be a point of reference for the Project Team, interested parties and site workers.

1.3.3. This OCEMP will be developed further into a full Construction Environmental Management Plan (CEMP) by the nominated Principal Contractor once appointed. The CEMP will be used to discharge likely planning conditions associated with the planning application approval, if deemed to be required.

1.3.4. This is a 'live document' and shall be subject to a regular review and update by the Contractor prior to and during construction activities (refer to Table B-1, **Appendix B**). Each section will be reviewed

and updated as necessary and an electronic version of the updated CEMP circulated to the Contractor's Project Manager (see **Appendix B**). Updates to the CEMP must be incorporated into the Contractor's Environmental Management System (EMS).

1.3.5. Other requirements to be completed by the Contractor are as follows:

- A register of legal requirements, training undertaken and completion of site monitoring sheets (**Appendix B** Table B-2);
- An Environmental Aspects and Impacts Register (**Appendix C**);
- A Register or Consents, Undertakings and Assurances (**Appendix D**);
- Emergency Contact details for the works (**Appendix E**);
- Register the construction site under the Considerate Constructors Scheme; and
- Comply with the Considerate Constructors Schemes' Code of Considerate Practice in providing the works.

1.3.6. The Environmental Aspects and Impacts Register ('the Register') in **Appendix C** is a record of all sensitive environmental features that have the potential to be affected by the works. The Register should include information on how these features will be affected and the control measures required to mitigate any potential impacts (see **Appendix C**).

1.3.7. A draft register of consents, undertaking and assurances, including a suggested list of specific environmental licenses, consents and applicable permits shall be completed by the Contractor (see **Appendix D**).

1.3.8. The emergency contact details for the works shall be clearly displayed at the site where the public can see them (see **Appendix E**).

1.3.9. All documentation in relation to the environmental management of the works shall be maintained by the Contractor and made available to the Project Manager.

1.3.10. The performance of the Contractor's CEMP in meeting environmental objectives and targets, mitigating environmental effects and in achieving effective environmental management shall be subject to review by the Project Manager (refer to **Appendix B**) every two months.

RELEVANT PLANNING POLICY

1.3.11. Relevant policy considerations for the Proposed Scheme include:

- National Planning Policy Framework (NPPF);
- Kirklees Local Plan (2019);[1]
- Kirklees Highway Design Guide (Supplementary Planning Document) (2019);[2]

[1] Kirklees Local Plan (2019), Available at: https://www.kirklees.gov.uk/beta/planning-policy/pdf/local-plan-strategy-and-policies.pdf

[2] Kirklees Highway Design Guide SPD (2019), Available at: https://www.kirklees.gov.uk/beta/planning-policy/pdf/highway-design-guide-spd.pdf

- West Yorkshire Combined Authority Bus Strategy 2040 (2017);[3]
- West Yorkshire Combined Authority Transport Strategy 2040 (2017);[4]
- West Yorkshire Combined Authority Connectivity Infrastructure Plan (Draft for engagement 2021) (2021);[5] and
- West Yorkshire Combined Authority Mass Transit Vision 2040 (Draft for engagement 2021) (2021).

1.4. ACCOMPANYING INFORMATION

1.4.1. The full CEMP should be read in conjunction with the Design and Access Statement, which illustrates the process that has led to the development proposal and explains the design. It is assumed that alongside the CEMP the Principal Contractor will prepare a Construction Traffic Management Plan (CTMP), Site Waste Management Plan (SWMP), and Materials Management Plan (MMP). It is assumed that details of the Principal Contractor's EMS, plus Project Environmental Procedures (PEP) would be included within the full CEMP. Biosecurity Management measures will be included as part of the CEMP.

1.4.2. The following drawings are referenced throughout this report:

- **Site Location Plan (drawing reference number: 20233-SGP-HEK-00-A-010001-P.1-Location Plan) (see Appendix A);**
- **General Arrangement Plans (drawing reference number: 20233-SGP-HEK-ZZ-DR-A-021004-P.9-Proposed GA Plan); and**
- **Landscape Design (drawing reference number: TCF-WSP-KHBH-XXX-TN-LE-000001 Landscape Design RIBA STAGE 3).**

1.5. STRUCTURE OF THIS OCEMP

1.5.1. The OCEMP is based on established good management practice and the structure and content is as follows:

- **Introduction:** includes the background information of the Proposed Scheme, the purpose of this OCEMP and the accompanying information.

[3] West Yorkshire Combined Authority Bus Strategy 2040 (2017), Available at: https://www.westyorks-ca.gov.uk/media/2799/a5-landscape_public-doc_final-draft-8.pdf

[4] West Yorkshire Combined Authority Transport Strategy 2040 (2017), Available at: https://www.westyorks-ca.gov.uk/media/2379/transport-strategy-2040.pdf

[5] West Yorkshire Combined Authority Connectivity Infrastructure Plan (Draft for engagement 2021), Available at: https://ehq-production-europe.s3.eu-west-1.amazonaws.com/05cee19e2e5797f0d838d14c4067147b3f312240/original/1611663038/WYCA_Connectivity_Plan_v13_%28spreads%29.pdf_7406b6bb8c6a9a958317137e5679e395?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIBJCUKKD4ZO4WUUA%2F20220609%2Feu-west-1%2Fs3%2Faws4_request&X-Amz-Date=20220609T073721Z&X-Amz-Expires=300&X-Amz-SignedHeaders=host&X-Amz-Signature=64a2d18d72f0f0d1d158202b5d1d72728d460c8cc5a9636de2b5c531f776f4c7

- **The Site and Surrounding Area:** includes information on the baseline environment for the Site and immediate surrounds. location of any potentially sensitive receptors such as protected species, watercourses etc;
- **The Proposed Scheme:** A summary of the Proposed Scheme design;
- **Management Structure**: including management structure, roles and responsibilities, communication and training;
- **General Environmental Requirements: i**ncluding audit, and inspections, health and safety requirements, objectives and targets as well as incident response procedures;
- **Construction Information:** a description of the works, construction programme, proposed working hours, equipment to be used etc;
- **Environmental Actions and Commitments:** a summary of the potentially significant environmental impacts identified from environmental assessments, the environmental action/mitigation and the construction monitoring activities relating to landscape, biodiversity, arboriculture, cultural heritage, water and drainage, materials and waste, air quality, noise and vibration, geology and soils, and people, communities and health; and
- **Summary:** a summary of the OCEMP.

2. THE SITE AND SURROUNDING AREA

2.1. DESCRIPTION

2.1.1. This Section provides a summary description of the Proposed Scheme area covered within this OCEMP, including the construction proposals and land use. The Site is located within the centre of Heckmondwike, specifically at the current Heckmondwike Bus Hub. The proposed Site boundary is shown on the **Site Location Plan** (**Drawing reference number: 20233-SGP-HEK-00-A-010001-P.1-Location Plan)** see **Appendix A.**

2.1.2. The existing land use is that of Heckmondwike Bus Hub which includes an area of hardstanding with small parcels of vegetation. This hardstanding is encircled by the following roads:

- The A639 (adjacent to the southern part of the Site);
- The B6117 (adjacent to the south-west of the Site);
- South George Street (within the western and northern part of the Site); and
- Royle Fold (within the southern and eastern part of the Site).

2.1.3. To the north of the Site is a retail shopping unit, the southern boundary is adjacent to the A638. High street shops are located on the eastern side, and Green Park is located to the west of the Site boundary.

ACCESS

2.1.4. The Site is 3.45km to the west of Batley Rail Station. No Public Rights of Way (PRoW) intersect the Site; however, a public footpath that runs through Green Park and ends at Northgate is located adjacent (west) to the Site boundary.

NOISE AND VIBRATION

2.1.5. Road traffic noise dominates the prevailing noise levels across the Site and at the nearest noise sensitive receptors to the Site. The levels of road traffic noise range between 55dB and 70dB $L_{Aeq,\ 16\ hour}$ during the daytime and between 50dB and 60dB $L_{Aeq,\ 8\ hour}$ during the night-time. The Site is also adjacent to a Noise Important Area (NIA) ID: 10435 which is attributed to the A638 Westgate.

BIODIVERSITY

2.1.6. There are no nature reserves, Sites of Special Scientific Interest (SSSI) or RAMSAR sites within 100m of the Site. A desk study and walkover survey was conducted in February 2021. No protected species surveys have been conducted; the potential exists for species such as bats and nesting birds to be present.

MATERIALS AND WASTE

2.1.7. The Heckmondwike Green Park is located within 100m of the Site and will be vulnerable to litter and waste from the Site if materials are not properly disposed of and are carried by the wind.

PEOPLE, COMMUNITIES AND HEALTH

2.1.8. The Site is within the council's strategic green infrastructure network. The closest designated footpaths are the HEC/17/20 and HEC/17/10 located 200m north of the Site. There is one healthcare facility within 100m of the Site, which is the Bupa Dental Care Heckmondwike centre.

2.1.9. There are residential properties along the 100m boundary to the north of the Site which will likely be sensitive to noise, air, and light pollution.

GEOLOGY AND SOILS

2.1.10. The bedrock geology consists of Pennine Lower Coal Measures Formation - Mudstone, Siltstone and Sandstone. Sedimentary Bedrock formed approximately 318 to 319 million years ago in the Carboniferous Period. These sedimentary rocks are fluvial, palustrine and shallow marine in origin. They are detrital, forming deposits reflecting the channels, floodplains, and deltas of a river.

2.1.11. As such the bedrock mirrors the locality to a flood plain for the River Spen located 230m south of the Site. Due to the nature of the bedrock, infiltration rates may be reduced, leaving the Site more vulnerable to surface water stagnation.

AIR QUALITY

2.1.12. There are no Air Quality Management Areas (AQMAs) within 100m of the Site.

CULTURAL HERITAGE

2.1.13. The Historic Environment Desk-based Assessment identified that there are 27 heritage assets within a 500m radius of the Site. These comprise 10 Listed Buildings, 14 non-designated assets, and three previously unrecorded assets. Of these, the Grade II Listed Midlands Bank (NHLE 1300271) and the Grade II Listed two K6 Telephone Kiosks outside the Midlands Bank (NHLE 1135382) lie 30m to the south-east of the Site. The Heckmondwike and District Co-operative Society building (HA17) is located 75m north-west of the Site and the Congregational Church (HA25) is located 32m to the north of the Site.

ARBORICULTURE

2.1.14. Based on a desk study conducted on 6th June 2022, there are no ancient trees or veteran trees within 100m of the Site. There are no Tree Preservation Orders (TPO) or traditional orchards within 100m of the Site.

2.1.15. A total of eight arboricultural features, consisting of six individual trees, and two groups of trees were identified during the site survey on 18th June 2021 (surveyed in compliance with BS 5837). One of the arboricultural features (G4) was of moderate quality and all others were assessed as low quality.

2.1.16. The Proposed Scheme will result in the removal of one moderate quality arboricultural feature (G4) as well as the removal of three low quality features. All other arboricultural features can be retained and protected through demolition and construction. The Proposed Scheme will result in the removal of LG1, T2, T3 and G4. Please refer to the Arboriculture Impact Assessment (WSP, 2022) submitted with this planning application.

2.1.17. LG1 and G4 are to be removed to enable the construction of the covered concourse and the enclosed waiting area with welfare and office space. T2 and T3 are to be removed to enable the reconfigured layout of the site. While there is potential to retain T3 in a new landscaped area, the tree has suffered damage to the upper crown and the tree is of a size that can be replaced with relative ease, securing a better-quality tree in a location more suited to the Proposed Scheme layout.

LANDSCAPE

2.1.18. The Site is located within Landscape Character Area 37 Yorkshire Pennine Fringe. There are no Areas of Outstanding Natural Beauty within 5km of the Site.

2.1.19. The area surrounding the Site consists of predominantly commercial and industrial units, housing, and community features such as shops, take away restaurants and employment opportunities.

3. THE PROPOSED SCHEME

3.1. DESCRIPTION OF THE PROPOSED SCHEME

SCHEME OVERVIEW

3.1.1. The Proposed Scheme would comprise the following:

- A new covered concourse with new bus stands, seating and real time information boards;
- Five new Drive-in-Reverse-Out (DIRO) bus stands, one Drive-in-Drive-Out (DIDO) layover stand and one layover resting bus bay located off the carriageway on a new hard landscaped bus apron, replacing the existing 4 No. bus layover bays to increase bus capacity;
- A new fully enclosed waiting area with an Accessible WC and Changing Places facility. This will also provide enclosed staff office space, rest areas, and plant rooms;
- A harmonious modern building design that integrates well into the surrounding heritage assets and public realm but also provides a unique design identity;
- Enhanced soft and hard landscaping to create a more inviting and usable public realm that also promotes art, culture, and biodiversity;
- New reversing camera facilities to allow for safe bus reversing activity so the drivers can view what's behind them at bus stands 1 to 5;
- An environmentally friendly bus station design which will incorporate energy efficiency, local energy generation such as roof-mounted solar photovoltaic (PV) panels, and green features that complements the surrounding heritage and public realm;
- 6 No. cycle stands (accommodating 12 No. cycles);
- Bin store; and
- Improved pedestrian circulation routes around the bus station site.

3.1.2. The Proposed Scheme landscape design is expected to achieve biodiversity net gain (BNG) for area habitats. For further details, please refer to the Biodiversity Net Gain Assessment (prepared by WSP) submitted as part of this planning application.

4. MANAGEMENT STRUCTURE

4.1.1. The anticipated roles and responsibilities of the parties involved in the construction works associated with the Proposed Scheme are set out below. However, it should be noted that all members of the project are responsible for ensuring the requirements of the OCEMP are met.

4.2. THE CLIENT

4.2.1. The Client (KC) will be responsible for providing all strategic works including foul and surface water drainage, structural landscaping and associated ecological mitigation and landscaping.

4.2.2. In order to achieve this, the Client will appoint a Principal Contractor and a Project Manager and ensure that they are suitably qualified for the activities required to be completed.

4.3. PRINCIPAL CONTRACTOR

4.3.1. The Principal Contractor once appointed will be responsible for the preparation of the CEMP and the day-to-day management of Health and Safety, and Environmental and Quality performance during construction. The Principal Contractor will be responsible for implementing the CEMP, including monitoring the performance of sub-contractors and maintaining records to demonstrate compliance with and implementation of this OCEMP.

4.4. PROJECT MANAGER

4.4.1. The Project Manager will be responsible for directing the Principal Contractor on the delivery of the CEMP. This will include checking that the Principal Contractor has allocated sufficient resources to allow delivery of the CEMP, participating in communication with the Local Planning Authority (LPA) and other third parties, e.g. Environment Agency as required and arranging for the periodic review and update of the CEMP. The Project Manager will regularly review the findings of the monitoring programme and direct the Principal Contractor as necessary.

4.5. SITE MANAGER

4.5.1. The Site Manager is responsible for the management of the day to day activities on the construction site and liaison with the Environmental Manager and Project Manager.

4.6. ENVIRONMENTAL MANAGER

4.6.1. The Environmental Manager would carry out environmental duties including:

- Ensuring compliance with legal environmental requirements;
- Production of documentation;
- Liaison with third parties;
- Inspections and audits;
- Delivering environmental training and toolbox talks;
- Investigation of incidents and follow up to ensure non-conformances are corrected, and preventative action implemented;
- Reporting environmental performance to the Client, Principal Contractor and Site Manager;
- Providing help and advice to the Site Manager; and
- Reviewing and inputting into risk assessments and CEMP updates.

4.7. PUBLIC LIAISON OFFICER

4.7.1. The Contractor will appoint a Public Liaison Officer (PLO) to carry out liaison duties with the public and others and will develop and maintain the Communication Plan for the Scheme. The PLO will be responsible for maintaining a register of community consultation including a list of complaints and actions. This is to be made available to the LPA on request.

4.7.2. The PLO will be responsible for informing stakeholders of the works and programme and advising in the event of upcoming works with the potential for noise disturbance.

4.8. PROJECT ARBORICULTURALIST

4.8.1. The Project Arboriculturalist is responsible for overseeing works in proximity to retained trees.

4.9. ROLES AND RESPONSIBILITIES

4.9.1. The personnel with defined environmental responsibilities are detailed within **Table 4-1** below. The roles and responsibilities of the site-based project team will be determined by the Principal Contractor.

4.9.2. Each individual will sign to confirm that they understand and accept their designated duties and responsibilities. Where there is more than one individual with responsibilities, these personnel will sign a project induction which will confirm the acceptance of their environmental/sustainability responsibilities.

4.9.3. A contact number that the public can use, normally directed to the Project Manager or appointed Public Liaison Officer, should be displayed prominently on a Site board and provided at entrances, on perimeter hoardings and where possible and appropriate at community locations.

Table 4-1 – Roles and Responsibilities

Activity	Responsible Person
Ensure resources are made available to carry out environmental responsibilities.	Project Manager
The performance of the Contractor's CEMP in meeting environmental objectives and targets, mitigating environmental effects and in achieving effective environmental management shall be subject to review.	Client
Ensure measures detailed in the CEMP are carried out.	Site Manager
Produce the CEMP/ update of CEMP.	Environmental Manager
Review the CEMP.	Client / Site Manager / Project Manager
Carry out Environmental Induction Training on site (as part of the overall site induction).	Site Manager/Environmental Manager
Ensuring that all environmental standards and commitments are adhered to.	Environmental Manager

Carrying out site specific environmental training.	Environmental Manager/Ecological Clerk of Works
Carrying out monthly site environmental inspections.	Environmental Manager
Carrying out weekly site environmental inspections.	Environmental Manager
Carrying out quarterly environmental audits.	Environmental Manager
Carrying out Waste Management Duties on site.	Waste Management Coordinator
Compliance with duty of care, the SWMP or any permits and/or exemptions.	Waste Management Coordinator
Carrying out regular site environmental checks.	Environmental Manager
Ensuring Risk Assessments/Method Statements (RAMS) take into account environmental aspects and risks on site	Site Manager/Environmental Manager
Arboricultural monitoring, supervision of sensitive works and maintaining record of events	Project Arboriculturalist
Identify requirements for/inputting into/co-ordinating specific environmental RAMS for the works	Environmental Manager
Producing specific environmental RAMS & input and review of Method Statements where required	Environment Team Specialists
Ensure client instructions are implemented	Project Manager
Carrying out Emergency Procedures	Site Manager
Investigate Environmental Incidents	Environmental Manager
Liaison with the Environment Agency	Environmental Manager/Public Liaison Officer
Maintain record of training	Site Manager
Liaison with other interested parties/statutory bodies	Environmental Manager/Public Liaison Officer

4.10. COMMUNICATION

INTERNAL COMMUNICATION

4.10.1. Communication on environmental issues within the project team will take place through face-to-face conversation, email and telephone. The Project Manager / Environmental Manager will be made aware of all environmental issues at the earliest possible opportunity. Communication on environmental matters will be maintained through construction meetings chaired by a member of the project team or a senior manager.

4.10.2. Environmental issues identified by any member of the project team will be communicated to the Project Manager / Environmental Manager to ensure any required actions are carried out. Dissemination of information will take place in several forms, as appropriate, including meetings to discuss particular project issues, method statements, task/activity briefings, toolbox talks, inductions, environmental notices and environmental alerts. Records that these have been carried out and who received them will be recorded on briefing registers and collated by the project administrator. The Environmental Manager will provide updates to the line managers at each site to ensure policies and procedures on display are up to date. The Site Manager will also be notified of any legislation changes which may affect working practices on site.

4.10.3. Any unexpected finds/occurrences by site staff can be reported to their supervisors, which will then give notification to a member of the project team.

EXTERNAL COMMUNICATION

4.10.4. External communication on site would typically include:

- Communication with interested third parties;
- Addressing complaints from members of the public; and
- Communication with the media.

4.10.5. Regulator engagement, as required, will take place with interested third parties including statutory and non-statutory bodies.

4.10.6. The PLO will carry out liaison duties with the public and others, will maintain the contact register and will develop the Communication Plan for the Scheme. The PLO shall be responsible for community engagement during the construction period. The following tasks are likely to be required:

- Establish a framework for managing communications with local residents;
- Letter drops to inform local residents of particular construction activities;
- Review all traffic routes to ensure they are kept clean and clear;
- Establishing a point of contact, such as an email/webpage, for community engagement;
- Record any complaints on the site monitoring sheets (see Table B-4, **Appendix B**) and how they were dealt with; and
- Provide advance notice of work on site and proposed access arrangements.

4.10.7. Contact details of the PLO will be made publicly available and advertised clearly. The PLO will maintain a register of queries and complaints from the public which will inform the day to day construction activities if necessary. The PLO will inform the Site Manager as and when complaints are received, at which point appropriate responses/mitigation shall be delivered to address the query/complaint. These arrangements will be detailed in the Communication Plan. The Contractor will need to register the site with the Considerate Constructors Scheme and this will be detailed in the Communication Plan, along with any Code of Construction Practice.

4.10.8. The Contractor through the PLO will provide regular updates to the general public on the progress of the works and changes to traffic management layouts.

4.10.9. Contact details will be provided in the CEMP and checked on a regular basis. These contact details will be displayed on the site notice board. A template for the Contact List is provided in **Appendix E**.

4.11. COMPETENCE, TRAINING AND AWARENESS

4.11.1. The Principal Contractor shall identify the training needs of their employees and subcontractors so that they can implement the requirements of this OCEMP into briefings and construction method statements.

4.11.2. Specific training needs will be developed for individuals to reflect the work to be carried out on the Proposed Scheme and the significant risks and opportunities identified.

4.11.3. The requirement is for all personnel to be aware of their general environmental management responsibilities, and for those whose work may cause, or have the potential to cause, a significant impact on the environment, to receive specific environmental awareness briefings.

4.11.4. All contractors are responsible for ensuring the competency of their staff. In the event that environmental training is needed for staff, the Project Manager /Site Manager is responsible for ensuring this requirement is fulfilled. Any training provided to members of the project team will be logged by the Site Manager / Environmental Manager and any certification documents will be produced by the relevant members of staff as evidence that they hold the required competencies.

4.11.5. The personnel are also expected to meet externally defined standards such as those required for the Construction Skills Certification Scheme (CSCS) run by Construction Industry Training Board (CITB).

TOOLBOX TALK

4.11.6. The competency of personnel will be reinforced through daily ‘toolbox talks’ led by the Site Manager. Topics for toolbox talks may include those listed above and those relevant to the site-specific hazards or tasks. A log of toolbox talks provided for personnel will be maintained by the Principal Contractor.

INDUCTIONS

4.11.7. All personnel attending the site will be provided with a site-specific induction and environmental awareness training by the Site Manager/Environmental Manager. Training may include details of the following items relevant to environmental management:

- Company or project specific environmental policy;
- Site environment and risks;
- Prevention and control of pollution (e.g. fuel containment; spill kits);
- Risks of exposure to contamination associated with earthworks and excavations;
- Materials storage (defined for excavated and imported materials);
- Waste management and storage (defined for domestic waste and construction waste);
- Wheel washing and road sweeping;
- Nuisance (e.g. noise, dust, vibration and odour);
- Traffic management plans (e.g. haulage routes);
- Communication with the public;
- Reporting of environmental hazards and incidents; and
- Emergency response plans.

4.11.8. A log of inducted personnel will be maintained by the Site Manager.

5. GENERAL ENVIRONMENTAL REQUIREMENTS

5.1. AUDITS AND INSPECTIONS

5.1.1. Once construction has commenced, internal environmental inspections and audits on the Proposed Scheme will be conducted. It is assumed audits of the CEMP will be carried out in accordance with the Principal Contractor's EMS to assess the project's performance and to check compliance with the legal and contractual requirements.

5.2. CONSENTS

5.2.1. A register of consents covering planning, highway and environmental is provided within **Appendix D** and will be maintained by the Principal Contractor to keep track of any progress. This will enable the project team to plan for consents to be applied for and obtained prior to construction work commencing.

5.2.2. The progress of the preparation, submission and internal approval of the consents identified as being required will be tracked using the consents register.

5.2.3. This CEMP will track the delivery of consents which will be subject to regular review/audit to ensure achievement of legal compliance.

5.3. HEALTH AND SAFETY

5.3.1. This document provides an overview of the health and safety measures and processes that are likely to be adopted during the demolition and construction of the project. However, this OCEMP is not intended to fulfil any legislative obligations of the Principal Contractor with regard to occupational health and safety.

5.4. OBJECTIVES AND TARGETS

5.4.1. The objective of this OCEMP is to ensure all those involved in the construction phases of the project follow a project specific framework which outlines all environmental impacts associated with the implementation of the proposed construction activities. This ensures the environmental risks are properly identified and outlines the mitigation to be implemented throughout all construction phases of the Proposed Scheme.

5.5. INCIDENT RESPONSE

5.5.1. An Incident Response Plan will be developed to highlight the potential pollution receptors specific to each works area and the activities taking place there. Each document will be in place within the first month of construction activities commencing and will be available for viewing and be briefed to the workforce on Site. They will be updated at least every six months. The key components of each Incident Response Plan will be:

- A brief scope of works taking place on Site;
- Types of environmental incident that have the potential to occur (however low the risk);
- Types of hazardous material likely to be present on Site;
- A list of pollution receptors and maps showing their location relation to the Site;

- The procedure for responding to environmental incidents, reporting them and investigation (including spill or leak events);
- Key contact numbers for reporting of environmental incidents; and
- Recommendations to help reduce the likelihood of environmental incidents.

5.5.2. The Principal Contractor will advise KC within 24 hours of any incidents of non-compliance with the CEMP and will respond to any reported incidents within 24 hours, or as soon as reasonably practicable. In the event of working practices being deemed dangerous either by KC or the Health and Safety Executive (HSE), immediate remedial action will be taken.

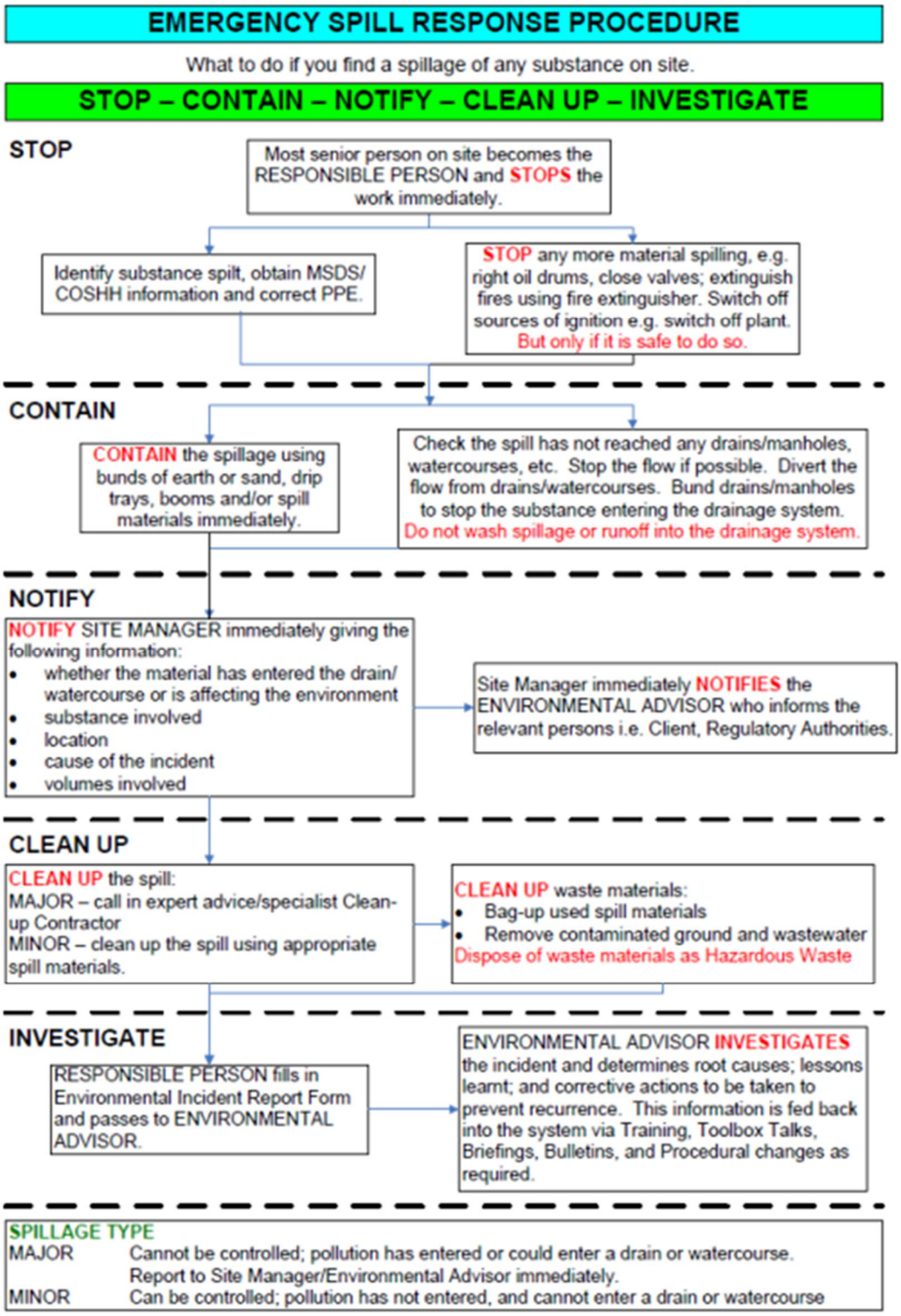
5.5.3. The formal procedure for handling Environmental Incidents will be developed and agreed by the Principal Contractor / Site Manager / Environmental Manager but may include a procedure similar to that detailed below:

- Environmental Incidents are to be reported to the Site Manager, a template is provided in **Appendix E**;
- The Principal Contractor (or nominated representative) will record full details of the Environmental Incident and ensure that they are responded to as soon as reasonably practicable (preferably within one hour but always within 24 hours);
- The Principal Contractor (or nominated representative) will monitor and ensure that appropriate action is taken; and
- The Principal Contractor (or nominated representative) will undertake an investigation to assess what corrective and preventive action, or further investigation is necessary to avoid recurrence of the Environmental Incident.

5.5.4. In the event of a spill or leak, the process shown in **Figure 5-1** below will be followed. This will be included in the incident response plan, and this will be briefed to the workforce and displayed on site notice boards.

5.5.5. All incidents will be recorded in the Environmental Tracker.

Figure 5-1 - Spill Response Procedure



5.6. ENVIRONMENTAL ACCIDENTS AND EMERGENCIES

5.6.1. In the event of an accidental release of hazardous materials, information regarding spill response equipment (spill kits) shall be clearly stated on site. A procedure for a general response to incidents shall be included in the Contractor's Health and Safety Plan, stating the chain of command and standby operatives, and clearly advised to all staff.

5.6.2. A register of all nearby residential properties, downstream abstractors and other sensitive receptors that could be affected by an environmental incident shall be compiled and maintained by the Site Manager / PLO.

5.6.3. The local community must be informed about the environmental incident at the time if felt necessary by the PLO / Environmental Manager.

5.6.4. If a serious accident occurs, the media and local community shall be issued with a fact sheet about the environmental incident, and the action taken by the Contractor to remedy the situation. This will be undertaken in accordance with the accepted Project's Communication Plan.

5.6.5. Details for the requirements for spill kits are as follows:

- Spill kits are to be held on site at all times;
- Spill kits with instructions will be sited in areas of high risk and in close proximity to material storage areas;
- All staff will be trained in the use of spill kits and the correct disposal of used spill control material;
- Used spill kit equipment will be disposed of as hazardous waste; and
- Spill kits will be maintained and periodically inspected.

5.6.6. Environmental incidents shall be recorded by the Contractor including:

- Nature of spill/leak/incident;
- Time/date;
- Exact location;
- Type of material released;
- Actions taken to prevent contamination;
- Individuals reported to; and
- Lessons learnt.

5.6.7. Lessons learnt shall be fed back to site staff through safety and environment briefings and used by the Contractor's Environmental Manager to amend procedures and update the CEMP accordingly.

5.6.8. Emergency procedures shall be tested monthly by the Environmental Manager. Examples of procedures should include:

- The names and 24-hour contact details of all emergency response personnel and emergency services, a template is listed in **Appendix E**;
- The procedures for reporting and documenting an emergency incident;
- Personnel responsibilities during an emergency incident; and
- The location of on-site information on hazardous materials and spill containment materials.

5.7. METHOD STATEMENTS

5.7.1. Method statements will be completed by the Principal Contractor or sub-contractor by trained engineers or other appropriately experienced personnel, in consultation with on-site staff and where necessary, environmental specialists.

5.7.2. Method statements will be reviewed by the Principal Contractor or sub-contractor's appointed Environmental Manager and where necessary, by an appropriate environmental specialist (e.g. ecologist). Where required, method statements will also be submitted to the enforcement agencies for information (Environment Agency and KC Environmental Health Officer) As a minimum, method statements will contain the following:

- Location of the activity and access/egress arrangements;
- Work to be undertaken and methods of construction;
- Plant and materials to be used;
- Labour and supervision requirements;
- Health, safety and environmental considerations; and
- Any permit or consent requirements beyond those already obtained.

5.8. GOOD PRACTICE GUIDANCE FOR POLLUTION PREVENTION

5.8.1. Although formerly withdrawn, the Environment Agency Pollution Prevention Guidance (PPG) provides good practice guidance of relevance to construction environmental management and can be found in the National Archives. Where applicable, this guidance will be followed:

- PPG 1: General Guide to the Prevention of Pollution of Water Resources (Environment Agency, reviewed July 2013);
- PPG 2: Choosing and using Storage Tanks (Environment Agency, April 2014);
- PPG 3: Choosing and using Oil Separators (Environment Agency, 2006);
- PPG 6: Working at Construction and Demolition Sites (Environment Agency, April 2014);
- PPG 7: Operating Refuelling Facilities (Environment Agency, August 2011);
- PPG 13: Vehicle Washing and Cleaning (Environment Agency, July 2007);
- PPG 21: Pollution Incident Response Planning (Environment Agency, 2004); and
- PPG 22: Dealing with Spills (Environment Agency, April 2011).

5.8.2. New Guidance for Pollution Prevention (GPPs)[6] have been released and some are of relevance to managing environmental risks on land. The current guidance includes:

- How to prevent pollution;
- How to report an incident;
- How to store oil;

[6] Guidance for Pollution Prevention (GPPs) [online]. Available at: https://www.netregs.org.uk/environmental-topics/guidance-for-pollution-prevention-gpp-documents/guidance-for-pollution-prevention-gpps-full-list/

- How to work near water; and
- How to manage water on land.

5.8.3. The Principal Contractor and all Sub-Contractors must take precautions during the construction phase to protect the entire drainage system from siltation or pollution.

6. CONSTRUCTION INFORMATION

6.1. CONSTRUCTION WORKS

6.1.1. It is anticipated that works will commence in Quarter 1 of 2023. Enabling works are expected to take 3 months, followed by main works that will take 9 months.

6.2. EQUIPMENT AND PLANT

6.2.1. The Principal Contractor will identify the equipment and plant to be used, including type, size and expected number. Once a full CEMP is produced a list of the likely conventional construction plant required for construction activities used for the Proposed Scheme will be listed in a table.

6.3. WORKING HOURS AND RESTRICTIONS

6.3.1. Working hours for all construction activities will be conducted within the standard industry working hours and the pre-application response includes the following construction delivery hours:

- Monday – Friday 07:30 – 18:30 Hours;
- Saturday – 08:00 – 13:00 Hours; and
- Sundays and Bank/Public Holidays no noisy activities are permitted.

6.3.2. No continuous 24-hour activities are envisaged at this stage and any working on Sundays or Bank Holidays are not permitted. Any change to working hours will need to be agreed in advance and in writing with KC.

6.3.3. It is assumed a CTMP will be provided prior to construction to show consideration for pedestrians including any crossings required.

6.4. PUBLIC RIGHTS OF WAY IMPACTS

6.4.1. There are no PRoW that intersect the Site. However, a public footpath runs through the Heckmondwike Green Park and ends at Northgate located adjacent (west) to the Site boundary. Any anticipated closures should be notified in advance to the KC Highway Authority as part of the proposed scheduling.

6.5. SITE COMPOUND, ACCOMMODATION AND WELFARE FACILITIES

6.5.1. Information regarding the site compound, accommodation, and welfare facilities is currently unavailable at this stage of the project, however, information on these components will be included in the full CEMP once completed.

6.5.2. It is important to note there are various environmental issues relating to the internal office environment, including energy use, waste and the use of electrical equipment to consider. Site offices have been identified as important contributors to carbon emissions from the construction process and should be assessed on their energy performance. Carbon management and energy efficiency are vital considerations for the entire construction process and HM Government have set

a strategic priority on low carbon and sustainable construction[7]. The Project Manager will be required to monitor and report on the above considerations in line with on-going reporting obligations.

6.5.3. Site welfare facilities shall be provided in accordance with Schedule 2 of the Construction (Design and Management) Regulations 2015.

6.6. PLANT AND MATERIAL STORAGE AND HANDLING

6.6.1. The Site Manager will ensure that materials are stored effectively to reduce the risk of damage, environmental incidents, injury to site-based staff and theft and checks will be carried out by the Site Manager/Environmental Manager. The following measures shall be considered when determining the storage of materials:

- Materials shall be stored at least 10m away from sensitive receptors, including drainage and transport routes, or more if there is no vegetated buffer zone (i.e. hedgerows);
- All potentially polluting materials should be stored in a designated area, or an impermeable based, bunded and away from potential vehicle collision;
- Material storage shall be planned to avoid double handling;
- Ensure that any suppliers instructions are followed;
- Plan any storage areas so that frequently used items are easy to access;
- Store valuable materials, or those that are hazardous or attractive to thieves, in a secure area, out of sight of the public;
- Store materials away from waste storage containers and from vehicle movements that could cause accidental damage;
- Materials shall be covered to protect them against the elements;
- Valuable materials shall be locked away and out of public view to reduce the risk of theft;
- Secure any lightweight materials to protect them from wind damage or loss; and
- Take special care over the storage of materials that are potentially polluting.

6.6.2. Plant and equipment will be stored in areas that are less susceptible to possible pollution incidents, or in dedicated areas of hard standing. A spill kit will be available for use in the event of an incident.

6.6.3. All deliveries will be supervised by a responsible person. Any fuel deliveries will take precautions to ensure that the fuel storage tanks are bunded and that they are checked for any damage before and during delivery to prevent overfilling. Any refuelling will take place away from any drains and will be adequately signposted to ensure refuelling area is clearly visible to all.

[7] HM Government (2013) Construction 2025: Industrial Strategy for Construction – Government and Industry in Partnership (online) available at: https://www.gov.uk/government/publications/construction-2025-strategy.

6.6.4. Vehicles will be off-loaded using the lorry mounted HIAB/forklift or site forklift. Where practicable, the loading and unloading operations must be carried out to avoid the need for persons to climb onto vehicles to undo straps etc. If this is not possible then a system or fall prevention, for example scaffold platforms with guardrails, will be provided.

6.6.5. Where possible, pre-cast and prefabricated elements will be delivered directly to their final position; thereby limiting the number of movements associated with double handling. All deliveries would be dealt with at the designated materials handling locations.

6.7. LIGHTING

6.7.1. The extent and location of the areas to be lit will vary during the different stages of construction according to area of construction, security and health and safety requirements. Careful selection and planning of temporary lighting can reduce the effects of light pollution, including:

- Identify sensitive receptors surrounding the Site;
- Position/direct lighting away from sensitive receptors;
- Use directional lighting;
- Use appropriate levels of illumination;
- Light areas only when and where required;
- Use the minimum amount of lighting, without compromising health and safety; and
- Install hoods, louvers, shields, reflectors and baffles to mitigate or reduce any light spillage.

6.7.2. To avoid unnecessary light pollution from site compounds, officers and welfare facilities, consideration should be given to a 'switch off' scheme where the Site Manager / Environmental Manager will provide training and posters actively encourage staff and subcontractors to switch off lighting when a room or area is not in use.

6.7.3. Alternatively, lighting may be controlled through motion sensors or a 'last man out switch' whereby the last person can switch off all the non-necessary lights in one single match.

6.7.4. Where security lighting is to be installed, the following shall be considered:

- Only use lighting as required (for safety reasons);
- Use an appropriate powered light. The maximum considered to be suitable for exterior security lighting is 2000 lumens or 150 watts;
- Install movement sensors with timers, as this will reduce the amount of time a certain area is constantly lit; and
- Position/direct lighting away from sensitive receptors so long as it doesn't comprise health and safety.

6.8. WASTE AND MATERIAL MANAGEMENT

6.8.1. Waste produced on-site will be subject to the Duty of Care under the Environment Protection Act (1990).

6.8.2. The waste stream will be managed so far as is reasonably practicable to maximise the reuse of surplus materials and to ensure any adverse environmental effects are minimised. Waste will be segregated on Site into key waste streams such as excavated soil and stones, metals, wood/timber and general construction waste.

6.8.3. The transportation of waste to and from the Site will comply with the Duty of Care requirements. These include ensuring waste is transported by registered carriers, disposal to appropriately licensed sites and maintenance of appropriate waste transfer documentation.

6.8.4. The Waste Management Coordinator / Environmental Manager will audit waste carriers and disposal facilities and maintain documentary evidence that these requirements are being met, including a register of waste carriers, disposal sites (including transfer stations) and relevant licensing details for each waste stream. Waste contractors who remove waste will be registered with the Environment Agency.

6.8.5. It is assumed a SWMP will be produced alongside the full CEMP, providing details on forecast waste quantities and classification likely to be generated during the construction of the proposed Scheme. The SWMP will follow the waste hierarchy.

6.8.6. The Proposed Scheme will be constructed in line with the hierarchy. The hierarchy is a classification of waste management options in order of their environmental impact. The concept provides the cornerstone of the Project's waste minimisation strategy – **reduce, reuse, recycle.** The Project will seek opportunities to operate within the top sectors of the hierarchy, where feasible designing out waste, then reusing and recycling materials, before waste recovery.

6.9. SECURITY ON SITE

6.9.1. The Principal Contractor will develop and maintain security on-site throughout construction. It is anticipated that only authorised persons will be allowed on to the Site. To prevent unauthorised access to Site it is anticipated the following arrangements will be implemented:

- During working hours, the Site will be controlled and single vehicle delivery gates that will be attended by gate personnel; and
- Out of hours, it is assumed 24-hour security will be provided to prevent unauthorised access, confirmation of this will be provided in the full CEMP.

6.10. HEALTH AND SAFETY ARRANGEMENTS ON SITE

6.10.1. Barriers and / or hoardings will be erected, adapted and maintained where necessary throughout the construction phase to completely segregate the public from construction activity.

6.10.2. All site hoarding will conform to KC's standards and the Principal Contractor's minimum site expectations.

6.10.3. A site-specific Health & Safety Plan will be developed by the Principal Contractor in accordance with KC's Health and Safety policy and implemented by the Principal Contractor prior to commencement on-site.

6.10.4. Everyone employed on-site in relation the Proposed Scheme will receive a Site-specific induction from the Site Manager to inform them of the health and safety arrangements, welfare on Site and to ensure they understand the requirements of the risks assessment and method statement relevant to their work. All site-based staff will be informed of their legal obligation to comply with health and safety.

7. ENVIRONMENTAL ACTIONS AND COMMITMENTS

7.1. POTENTIAL ENVIRONMENTAL EFFECTS

7.1.1. A schedule of potential construction phase environmental effects relating to each topic is provided in **Table 7-1** below.

7.1.2. Further environmental baseline and impact assessments may be required if any changes are proposed to the Proposed Scheme, and the potential environmental issues of relevance would need to be updated to reflect findings.

7.2. MONITORING PROCEDURES

7.2.1. The Principal Contractor will hold the responsibility for maintaining a register of all environmental monitoring, which will be made available for auditing and inspection by the Environmental Manager.

7.3. REPORTING

7.3.1. Reporting procedures will be defined by KC who will hold overall responsibility for providing feedback to the Principal Contractor and KC on the environmental performance of the construction works.

7.3.2. All injury accidents occurring as a result of the Project's work activities or conditions are to be reported to the Site Management and recorded in the site Incident Portal. First aid will be provided and where necessary, arrangements will be made to get the injured person to hospital.

7.3.3. Site Management will report all injury accidents, 'near misses' and dangerous occurrences to Countryside Health and Safety Department who will carry out an investigation of all notifiable injury accidents and incidents as scheduled under The Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013. Minor injury accidents will be investigated where it is deemed beneficial.

7.3.4. In addition, daily inspections of the aspects above shall be assigned to a member of the Contractor's team.

7.3.5. The predicted environmental impacts during construction can be viewed in the Environmental Aspects and Impacts Register (template included in **Appendix C**).

Table 7-1 – Register of Environmental Actions and Commitments

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
Air Quality	§ Effect of dust deposition and elevated PM_{10} concentrations; § Increases in pollutant concentrations (namely nitrogen dioxide (NO_2) and PM_{10}) as a result of exhaust emissions arising from construction traffic leaving and accessing the Site on local air quality and public exposure; § Emissions from construction vehicles and equipment during construction; § Dust and particulate matter generated during earth works; § Physical contamination, coating of vegetation, soil contamination; and § Health impacts due to inhalation.	§ Based on the construction phase air quality assessment results, see AQ Assessment for full details, there is a **low risk** of dust impacts occurring at identified sensitive receptors throughout the construction phase. Appropriate mitigation is required to further prevent or minimise the release of dust entering the atmosphere and/or being deposited on nearby receptors. Attention should be paid to operations that unavoidably take place in the immediate vicinity of sensitive receptors. § The following mitigation measures are typical for a development of this nature and are consistent with the Construction Guidance[8]. § General communication: · The name and contact details of person(s) accountable for air quality and dust issues should be displayed on the site boundary. This may be the environmental manager/engineer or the site manager. The head or regional office contact information should also be displayed. § Site Management: · All dust and air quality complaints should be recorded and causes identified. Appropriate remedial action should be taken in a timely manner with a record kept of actions taken including of any additional measures put in-place to avoid reoccurrence.	§ Monitoring to ensure effective implementation of mitigation measures will be required throughout the construction stage. This will be undertaken by regular visual inspections to record the weather and ground conditions, activities taking place, mitigation measures being applied and any evidence of increased dust deposition and soiling in the area surrounding the works. Daily inspections offsite dust deposition. § The frequency of site inspections should be increased when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions.

[8] Institute of Air Quality Management (Version 1.1 Updated June 2016). Guidance on the Assessment of Dust from Demolition and Construction

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
		· The complaints log should be made available to the local authority on request. · Any exceptional incidents that cause dust and/or air emissions, either on- or offsite should be recorded, and then the action taken to resolve the situation recorded in the log book. § Preparing and maintain the Site: · Plan the site layout so that machinery and dust causing activities are located away from receptors, as far as is practicable. · Where practicable, erect solid screens or barriers around dusty activities or the site boundary that are at least as high as any stockpiles on site. · Avoid site runoff of water or mud. § Operating vehicle/machinery and sustainable travel: · Ensure all vehicle operators switch off engines when stationary - no idling vehicles. · Avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment where practicable. · Construction Logistics should be included in the CTMP should be produced to manage the sustainable delivery of goods and materials. § Operations: · Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems. · Ensure an adequate water supply on the site for effective dust/particulate matter suppression/mitigation, using non-potable water where possible and appropriate. · Use enclosed chutes and conveyors and covered skips.	

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
		· Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate. § Waste Management: · Avoid bonfires and burning of waste materials. § Measures Specific to Earthworks: · Stockpile surface areas should be minimised (subject to health and safety and visual constraints regarding slope gradients and visual intrusion) to reduce area of surfaces exposed to wind pick-up. · Where practicable, windbreak netting/screening should be positioned around material stockpiles and vehicle loading/unloading areas, as well as exposed excavation and material handling operations, to provide a physical barrier between the Application Site and the surroundings. · Where practicable, stockpiles of soils and materials should be located as far as possible from sensitive properties, taking account of the prevailing wind direction. · During dry or windy weather, material stockpiles and exposed surfaces should be dampened down using a water spray to minimise the potential for wind pick-up. § Measures Specific to Trackout: · Use water-assisted dust sweeper(s) on the access and local roads, to remove, as necessary, any material tracked out of the site. This may require the sweeper being in frequent use. · Avoid dry sweeping of large areas. · Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport. · Record all inspections of haul routes and any subsequent action in a site log book.	

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
		· Implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site where reasonably practicable). § Detailed mitigation measures to control construction traffic should be discussed with KC to establish the most suitable access and haul routes for the Site traffic. The most effective mitigation will be achieved by ensuring that construction traffic does not pass along sensitive roads (residential roads, congested roads, via unsuitable junctions, etc.) where possible, and that vehicles are kept clean (through the use of wheel washers, etc.) and sheeted when on public highways. Timing of large-scale vehicle movements to avoid peak hours on the local road network will also be beneficial.	
Noise and Vibration	§ Noise arising from construction works. § Increase in noise levels associated with increased traffic during construction. § Vibration arising from any piling activities (if proposed), ground remediation, and drilling work during construction.	· Measures will be implemented to mitigate noise and vibration effects during the Proposed Works. These measures will comply with BS 5228-1:2009+A1:2014 *Code of Practice for noise and vibration control on construction and open sites. Part 1: Noise* (BS 5228-1) and *Part 2: Vibration* (BS 5228-2). The contractor should also adopt Best Practicable Means (BPM), as defined in the Control of Pollution Act (1974). The measures that should be implemented include: § Plant and Equipment: · Plant will be certified to meet relevant current EC/UK legislation and should be no noisier than would be expected based on the noise levels contained in Annex C and Annex D of BS 5228-1. · Noisy plant or equipment will be situated as far as possible from the Site boundary and will be fitted with effective exhaust silencers, maintained in good and efficient working order and operated in such a manner as to minimise noise emissions. Plant will comply with the relevant statutory requirements.	§ If deemed necessary by KC, the contractor will complete a programme of noise and vibration monitoring: · To measure the performance of noise and vibration control measures; · To ascertain noise and vibration from items of plant; and · To provide an ongoing review of the contractors' method statements and plant used on site and measuring the performance of the noise and vibration control measures,

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
		· Compressors will be fitted with properly lined and sealed acoustic covers which will be kept closed whenever in use. · Pneumatic percussive tools will be fitted with mufflers or silencers of the type recommended by the manufactures. · Equipment and vehicles to be shut down when not in use. · Semi-static equipment is to be sited and oriented as far as is reasonably practicable away from noise sensitive receptors and will have localised screening if deemed necessary. · Where practicable, mains electricity to be used instead of generators. § Methods of Working: · Site inductions will highlight the need for noise minimisation where practicable. For example, for vehicle horns and alerts to only be used when necessary. · No work which is audible at the site boundary will be undertaken outside the specified working hours, except in cases of emergency where safety is an issue, or where a prior agreement has been reached with KC. · The Contractor will comply with the requirements of the Control of Pollution Act 1974 (with reference to Part III), the Environment Protection Act 1990, the Health and Safety at Work Act 1974 and the Control of Noise at Work Regulations 2005. · Careful selection of construction methods and plant will be implemented and used to minimise and control noise and vibration. For example, breaking-out of concrete structures using, where possible, low noise methods such as munching or similar, rather than percussion breaking.	including review and action taken should any complaints arise. § The outcomes of the noise and vibration monitoring will be incorporated into an update of the CEMP.

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
		· Temporary acoustic barriers and other noise containment measures such as screens, sheeting and acoustic hoarding at the site boundary (and where required around individual plant) will be erected where appropriate to minimise noise breakout and reduce noise levels at potentially affected receptors. · Burning equipment will be used in preference to cold cutting where possible. · Large concrete pours (for which an extension of working hours may be necessary) will commence as early as possible within normal working hours so that activities can be completed within normal working hours as far as possible. · All trade contractors will be made familiar with current noise legislation and the guidance contained in BS 5228-1 and BS5228-2 which will form a prerequisite of their appointment. · Unless agreed in advance, all deliveries will be during the construction site hours and on a “just-in-time” basis to avoid/minimise vehicles waiting outside or on the site with engines running; · Loading and unloading of vehicles, dismantling of equipment such as scaffolding or moving equipment or materials around the Site will be conducted in such a manner as to minimise noise generation; · Deviation from approved method statements will be permitted only with prior approval from the PC and other relevant parties. This will be facilitated by formal review before any deviation is undertaken; and · A contact number which the public may use shall be displayed prominently on the Site board and any noise complaints will be reported in accordance with the Complaints Procedures (see Section 4.10).	

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
Water Environment and Flood Risk	§ Alterations and / or changes to ground levels has the potential to increase flood risk. § Potential for ponding of surface water on-site and runoff to the surrounding area contaminating nearby watercourses. § Temporary increase in the demand for foul drainage to support welfare facilities during construction. § Contamination of groundwater resources during excavation and piling activities (if proposed).	§ The following measures may be implemented during the construction works to minimise effects on water and drainage: · Implementation of an appropriate temporary drainage system will be required to minimise the potential risks of contamination or excess sediment reaching nearby surface water. This will include road gullies left at base course level to enable surface water to discharge into the drainage system, with a hessian protection filter system, drain socks and booms around drains. · Works undertaken within 3m of a public sewer will require approval from Yorkshire Water. · If discharge to surface waters, groundwater, soakaways or surface water sewers is necessary, relevant consent or authorisation will be required from the Environment Agency, Kirklees Council as Lead Local Flood Authority or Yorkshire Water. · Cover stockpiles when not in use. · Contain stockpiles with bunds or sediment fences. · Control of runoff during construction. · Minimise the amount of exposed ground and soil stockpiles from which the water drains. · Compliance with the relevant sections of BS6031:2009 Code of Practice for Earthworks (British Standards, 2009) with respect to protection of water quality and control of site drainage including washings, dewatering, abstractions and surface water. · Safe containment of chemicals, use of drip trays and provision of emergency spill kits. · The use of silt fences, silt traps, filter bunds, settlement basins and/or proprietary units such as a ‘siltbuster’ to treat sediment laden water generated on site before discharge. · Fuel, oil and chemicals will be stored in secondary containment and located a minimum of 10m from any watercourse. The secondary containment system must provide storage of at least 110% of the tank’s maximum capacity and ensure that	§ Regular checks or inspections on Site to ensure mitigation measures are being implemented and are effective. § Daily checks of storage areas for leaks or spills.

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
		any valves, filters, sight gauges, vent pipes or other ancillary equipment are also situated within the secondary containment system and arranged so that any discharges are contained. · Availability of oil absorbent booms on site to be deployed in the event of a significant spillage. · Regular inspection of control and treatment measures to ensure they are working effectively. · Regular checking of construction plant for oil and fuel leaks, particularly when construction works are undertaken in or near any surface water. · During works, machinery will only be refuelled within the designated refuelling area. · Collection of waste fuels and other fluid contaminants in leak-proof containers prior to removal from construction site to an approved recycling processing facility. · Concrete mixing and washing areas shall be located more than 10m from any watercourse; have settlement and re-circulation systems for water reuse; have a contained area for washing out of concrete batching plant or ready-mix lorries; and collect wash-waters and, where necessary, contain wash-water for authorised off-site disposal. Wash-water from concrete shall not be discharged into a watercourse. · Plant and wheel washing will be carried out in a designated area of hardstanding at least 10 metres from any watercourse or surface water drain. · Run-off will be collected in a sump – recycle and reuse water where possible. · Settled solids will be removed regularly. · Brushing or scraping roads to reduce dust and mud deposits. · Sediment laden water generated on site will be appropriately treated before discharge. This may be using silt fences, silt traps, filter bunds (possibly straw bales or gravel bunds), settlement ponds and/or proprietary units such as a ‘silt buster’. Discharges will not be direct to any watercourse but	

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
		will be made to ground (where appropriate). This also applies to waste water containing sediment during any wheel washing of vehicles entering and exiting Site. · Local weather forecasts will be monitored and works scheduled accordingly. Earthworks and in-stream works may be stopped, or otherwise adequately controlled, during storm events. · Emergency response plans will be developed and spill kits made available on site (see Section 5.7). · There should be no uncontrolled run-off of water or mud from the Site. · Lining any temporary excavations to prevent infiltration of contaminants to the groundwater. · Any spillages (e.g. diesel) should be cleaned up immediately. Efforts will be made to stop a spill at the source. · In the event of a spillage on site, the material should be contained (using an absorbent material such as sand or soil or commercially available booms). Sorbents will be used to soak up a spill and stop it spreading on hard surfaces. Using sorbents generates waste and this method will only be used on small spills, or where a spill has been contained to stop further spread. All used sorbents will be disposed of at an accredited site for disposal. · If it is not possible to stop the spill at source, significant attempts will be made to stop it as close to the source as possible. If possible, the spilling material will be safely moved into another container to limit the size of the spill. Use of a suitable container and pump may be required.	
Landscape	§ Impacts on the landscape character of the area could occur during the construction phase, due to increased noise, visual impact of	§ The following measures may be implemented during the construction works to minimise effects on the existing landscape settings and views to the Site:	§ The following monitoring requirements have been identified:

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
	construction activities and loss of amenity value. § People living and working within the vicinity of the Scheme are likely to be subject to temporary visual effects during the construction phase.	· Active and regular site management to reduce visual clutter associated with the Proposed Scheme and maintain a tidy working environment through a 'tidy construction' site policy. · Public roads to be kept clean. · Appropriate location, organisation, phasing and timing of construction activities to minimise impact on surrounding sensitive visual receptors. · Use of aesthetically pleasing hoardings to screen low-level 'clutter' and to ensure Site security. · Storage of materials and plant in site locations that are less visually intrusive to the public. · Any materials to be re-used on site for Public Art features (as identified and agreed with project landscape architect and Client) to be carefully and safely dismantled/removed and protectively stored either on site or in safe off-site location. · No burning or fires will be permitted on Site at any time, and appropriate measures to be implemented to manage dust (see below) where cutting of materials is unavoidable. · The use of construction lighting (when required) to involve the use of well located, modern light fittings in accordance with best practice to minimise light intrusion to surrounding sensitive receptors. · Large plant will be located away from the most sensitive receptors, where alternative locations are viable.	· Check planting to ensure it has established and grown as expected; and · Ensure construction mitigation is implemented as planned.
Cultural Heritage	§ Excavation works associated with the foundations for the canopy and enclosed waiting area, Sustainable Urban Drainage (SUDs) and landscaping works, have the potential to impact upon medieval to post-medieval archaeological remains.	§ Cultural Heritage mitigation methods for the Site include: · Due to the potential for the Proposed Scheme to impact upon medieval and post medieval archaeological remains it is recommended that further intrusive archaeological investigations be undertaken. The precise details would need to be agreed by the LPA's Archaeological Advisor, but it is likely that this would take the form of archaeological evaluation trenches/pits and/or watching brief. These would	§ To be determined following consultation with the LPA Archaeological Advisor.

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
	§ Changes in setting and visual intrusion to built heritage assets within a 500m radius of the Site, these comprise of: · 10 Listed Buildings; · 14 non-designated assets; · 3 previously unrecorded assets · The Heckmondwike and District Co-operative Society building (HA17) located 75m north-west of the Site; and · Congregational Church (HA25) located 32m to the north of the Site.	aim to assess the presence, nature and significance of any remains in the areas of proposed impact. · The scope of archaeological mitigation will depend upon the results of the evaluation stage, and the nature, significance and survival of archaeological remains. This would most likely take the form of targeted archaeological excavation and/or an archaeological watching brief. This would ensure that any archaeological assets were not removed prior to an appropriate method of recording.	
Arboriculture	§ The Proposed Scheme will result the removal of LG1, T2, T3 and G4. § LG1 and G4 are to be removed to enable the construction of the covered concourse and the enclosed waiting area with welfare and office space. T2 and T3 are to be removed to enable the reconfigured layout of the site. While there is potential	§ The following measures may be implemented during the construction works to prevent damage and/or death of retained arboriculture features due to construction activities, including prevention of damage to roots and soils: § Tree Removal and Pruning: · Removal or pruning of arboricultural features will adhere to British Standards BS 3998:2010 *Tree Work* –	§ Once the protective fencing and ground protection measures have been installed but prior to the commencement of the development a site inspection should be undertaken by the Project Arboriculturalist. § Regular monitoring visits should be carried out as necessary during the development

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
	to retain T3 in a new landscaped area the tree has suffered damage to the upper crown and the tree is of a size that can be replaced with relative ease securing a better quality tree in a location more suited the Proposed Scheme layout.	*Recommendation*[9] paragraphs 7.2.4, 7.2.5, Table 1 and Figure 2 of the standard. Please refer to the attached Arboriculture Impact Assessment (WSP, 2022) submitted with this planning application. · The Proposed Scheme will result the removal of LG1, T2, T3 and G4. LG1 and G4 are to be removed to enable the construction of the covered concourse and the enclosed waiting area with welfare and office space. § Arboriculture Method Statement (see in Appendix D of the Arboriculture Impact Assessment Report): · Given the proximity of retained trees to the Proposed Scheme it is unlikely an Arboricultural Method Statement (AMS) will be required but has been provided in the event that circumstances change. The AMS adopts a precautionary approach to tree protection and addresses activities which have the potential to cause damage to retained trees. · It is recommended that this AMS be viewed as a 'living document'. It should therefore be reviewed, and if necessary updated as and when required. It is anticipated that a pre-commencement site meeting would be required with the Local Planning Authority Tree Officer to confirm tree protection measures. § Protective Barriers:	§ On completion of the development a general survey of the trees is recommended to identify any remedial action necessary as a result of the works. § The frequency of any monitoring will be determined by the intensity and proximity of works to trees and will be flexible enough to accommodate change in the scheduling of tasks as it occurs. § Daily checks of tree protection fencing. § Monitoring of the BNG planting.

[9] British Standards BS 3998:2010 *Tree Work – Recommendation* (online) available at: https://www.abouttrees.co.uk/2017/03/10/british-standards-3998-2010/#:~:text=British%20Standards%203998(2010)%20states,%E2%80%9C

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
		· Tree protection fencing may be used to prevent access to root protection areas (RPAs) of retained trees. In such instances, the following specification will be strictly adhered to: o The area demarcated by the tree protection fencing will be considered a Construction Exclusion Zone. No construction activities, storage or preparation of materials or pedestrian or vehicular access shall take place within this area; o All weather notices shall be attached to the tree protection fencing at suitable intervals and shall include suitably sized informative text containing the following statement: “Tree Protection Fencing Construction Exclusion Zone – No Access”; o Regular checks will be carried out by an appointed person to ensure that all tree protection fencing is still in place and functioning, any damage will be rectified without delay; and o Tree protective fencing shall be erected as soon as it is not an obstacle to safely perform site clearance, and prior to ground works or the importation of plant and materials and remain in-situ until all risk to trees, from construction activities, is removed. § Supervision: · Once works commence the KC arboriculturalist will be consulted if necessary. This may include phone and email contact with the site manager, site visits or direct monitoring of sensitive works. · Arboricultural and landscape advice should also be sought in order to ensure that there is adequate consideration given to new and existing trees within the final design. The areas where such advice may be needed include:	

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
		o Any works within the RPA of any retained tree; o The spatial relationship between new and existing trees and proposed structures; o The constraints that trees may pose on associated infrastructure such as above and below ground services, visibility splays, sightlines, solar panels, paths and CCTV; o The working space available during construction including the tree protection measures that may be required and; o The species composition and requirements of any new planting whether mitigatory or otherwise. § Mitigation Planting: · Through implementing appropriate tree protection measures, all retained trees can be kept without detrimental impact on them. · It is recommended that a landscaping design be prepared to include tree planting to compensate for the removal of the four arboricultural features.	
Materials and Waste	§ The Heckmondwike Green Park is located within 100m of the Site and will be vulnerable to litter and waste from the Site if materials are not properly disposed of and are carried by the wind.	§ Materials and waste management shall be approached to ensure a valuable contribution to a sustainable and future proofed solution on the Proposed Scheme. § Liaison with the Environment Agency and Waste Planning Authority should be undertaken by the Environmental Manager to ensure that all on-site materials and waste is managed in accordance with local expectations. It is assumed that the following plans will be prepared in conjunction with the full CEMP for the Proposed Scheme: § Site Waste Management Plan:	§ During the construction phase, the Waste Management Coordinator will be responsible for reporting the movement of waste through an agreed platform or format (for example, a Sustainability Portal) ensuring full traceability of waste movements, to demonstrate compliance with

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
		· To support the planning and other secured commitments for materials and waste on the Scheme, it is assumed a SWMP will be prepared in conjunction with the full CEMP for the Proposed Scheme. The SWMP details the requirements for minimising the production and disposal of waste. § Materials Management Plan: · Subject to the findings of the ground investigations and earthworks designs, it is assumed a MMP will be developed by the Principal Contractor. The MMP will ensure appropriate action with regards to the management of excavated material, so as little as possible is classified as waste, and maximal recovery and reuse is achieved. The MMP shall be developed in accordance with CL:AIRE Code of Practice (CoP) requirements.	duty of care requirements, and to give the Client confidence in data and information used. Further detail on reporting requirements is provided in the Site Waste Management Plan. § Within 3 months of the completion of the construction phase, the Site Manger / Environmental Manager is responsible for communicating to the Client how waste has been managed on the scheme and explaining any differences against the agreed plan.
Biodiversity	§ The disturbance of Bat (brown long eared nat, common pipistrelle, soprano pipistrelle, leisters bat, noctule and an unidentified mytosis species), bird (bullfinish, curlew, dunnock, goldfinch, green woodpecker, house martin, kestrel, ring-necked parakeet, skylark, swallow, swift and yellowhammer), and Invasive Non-Native Plant Species (Giant hogwood and Himalayan balsam) species	§ General biodiversity mitigation measures include: · Temporary lighting shall be minimised wherever practicable. Where required for health and safety, security or other reasons, it will be positioned to minimise light spill onto woodlands, mature trees, hedgerows and other boundary features; · Food and litter will not be left within the working area overnight; · Any trenches or deep pits within the Site that are to be left open overnight will be provided with a means of escape should any animals enter. This could simply be in the form of a roughened plank of wood placed in the trench as a ramp to	§ Weekly check of active birds' nests and exclusion zones (if required) within vegetation on-site required to be removed. § Daily checks of ground protection measures by an appointed person. § The monitoring of planted vegetation to ensure it takes successfully.

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
	within 2km of the Site from construction activities.	the surface. This is particularly important if the trench fills with water; · Any trenches/pits will be inspected each morning to ensure no animals have become trapped overnight; · All contractors will be briefed, in the form of a toolbox talk, as to the possible presence of protected and notable faunal species within the Site, with reference to the implications of legislation and licensing; · The site workforce should be briefed on how to recognise invasive plant species and should seek ecological advice in the unlikely instance that any colonise the construction site; and · The Principal Contractor will comply with relevant legislation and should maintain habitats intact and undisturbed, where possible. If protected species are unexpectedly discovered, work should cease, and advice should be sought immediately from a suitably qualified ecologist. § Bird mitigation measures: · It is recommended that bird nesting habitat is retained during the Proposed Works, where possible. · Vegetation clearance and/or the felling of trees should be undertaken outside the bird nesting season, which is defined as March to August inclusive. · Where clearance is proposed within the bird nesting period, it shall be preceded (ideally 24hrs prior to works commencing) by an ecological inspection by a SEE to identify the presence of active nests. · Should an active nest be recorded, a suitable buffer (5m minimum radius but at the discretion of the SEE and dependant on the bird species and habitat type) shall be implemented and remain in place until the nest is no longer active (upon inspection by the SEE).	

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
		· Compensation for loss of nesting habitats should be installed, in the form of bird boxes. The number of bird boxes is to be determined following confirmation of Proposed Works and an assessment of impacts. § Bat mitigation measures: · If the Proposed Works include works only within the vicinity of any structures, and no direct impacts are envisaged, it is considered that no further surveys are necessary so long as general mitigation recommended below is implemented. · Lighting should avoid the use of blue-white sort wavelength lights and high UV content. Lighting should be positioned away from habitats of value to foraging and commuting bats (hedgerows, trees and woodland). · Measures to reduce night-time will be adhered to, and light use kept to a minimum to reduce disturbance when bats are leaving/entering their roosts. § Non-native invasive plant species mitigation measures: · As Schedule 9 listed species under the Widlife and Countryside Act 1981 (W&CA) it is recommended, in order to prevent the spread of these species and an offence being committed, that a Biosecurity Management Plan is developed/Biosecurity measures specified within the CEMP prior to the commencement of the Proposed Works and all measures implemented throughout construction.	
Geology and Soils	§ Risk of construction workers being exposed to contaminants. § Surrounding Site users may be exposed to contaminated	§ General geology and soils mitigation measures comprise: · Always use of appropriate Personal Protective Equipment (PPE) during the construction works. · Provision of adequate hygiene facilities for washing and changing.	§ Environmental Manager / Site Manager to be alerted if suspected contamination is identified to determine the next steps.

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
	dust due to ground disturbance. § Construction works may increase the potential for contaminant migration (if present) to underlying groundwater resources.	· Water spray onto material being worked on to dampen down any potential contaminated dust and minimise that which becomes airborne. · The presence of contaminants and the associated risks will be explained to ground workers before they begin work. · Fuel storage on-site to be carried out under best practice i.e. integrally bunded containers. · Plant refuelling to be carried out using best practice techniques and any spills to be controlled with spill kit. · Use of appropriate machinery to minimise soil compaction (e.g. reduce the use of heavy plant or tracked vehicles passing over organic soils). · Relief of compaction of restored soils (i.e. dig out, aerating any highly compacted area of organic soil). · Surface stripping and storage of topsoil/subsoil (subject to other environmental constraints, such as the presence of buried archaeological remains). · Wheel washing of site vehicles to minimise the potential for dust generation. · Excavated / site-won soils will be re-used on-site wherever possible. · In the event that unexpected contamination is found at any time when carrying out the Proposed Works, it must be reported immediately to KC. A risk assessment shall be undertaken to assess the nature and extent of the contamination and work shall cease on the land affected by the contamination. A written report of the findings shall be submitted to and approved by KC, together with a scheme to remediate, if required, prior to further works on site taking place. Only once written approval from KC has been given, shall works recommence on that part of the Site. § Hazardous Substances:	

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
		· Materials uses in the construction process such as oil, fuel, solvents and paints have the potential to cause serious pollution incidents. Therefore, the Environment Agency's PPG[10] and other relevant guidance will be followed during the handling and storage of such materials. · All workers on-site will be made aware of potential contamination issues on the Site and will use best practice techniques during the construction phase. The operation of construction vehicles and the handling, use and storage of hazardous materials will be undertaken as follows: o Construction vehicles and plant will be regularly maintained and supplied with spill kits and drip trays to reduce the risk of hydrocarbon contamination; o Refuelling would be undertaken in specified areas where there is non-permeable hardstanding and drainage passes through an oil interceptor prior to discharge. Drip trays will be installed to collect leaks from diesel pumps; o Adequate bunded and secure areas with impervious walls and floors, with a capacity of 110% of substance volume, are to be provided for the temporary storage of fuel, oil and chemicals on Site during construction; o Oil interceptor(s) will be installed on discharge points from any temporary oil storage/refuelling areas; and o Development of Site pollution control procedures in line with Environment Agency's PPG's, and	

[10] Environment Agency's Pollution Prevention Guidance (online) available at: https://www.gov.uk/government/collections/pollution-prevention-guidance-ppg

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
		appropriate training for all construction staff. Provision of spill containment equipment such as absorbent material on Site. · Hazardous materials already present on-site or proposed to be used during the construction works will be identified and an appropriate Control of Substances Hazardous to Health Assessment carried out. · The Principal Contractor will comply with relevant legislation, technical guidance and regulations in the identification, handling, storage, recovery and disposals of waste. Provision will be made for a suitably qualified consultant to identify "hazardous waste" so that materials can be appropriately managed and disposed of during works. · Disposal sites and routes will be identified by the Principal Contractor and Project Manager in consultation with the KC and the Environment Agency. Consideration should be given to transportation modes and alternatives to reduce the adverse environmental effects, times, landfill capacity and license conditions. · If during construction, contamination not previously identified is found to be present on Site, construction works shall cease until a method statement, identifying, assessing the risk and proposed remediation measures, together with a programme, is submitted to and approved in writing by KC. Designation of a competent individual who may formally identify visual/olfactory evidence for contamination and/or possible asbestos containing materials (ACM). · Any remediation or removal of ACMs or contaminated waste shall be undertaken by a suitably licensed contractor.	

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
People, Communities, and Health	§ Adverse impacts to road users (motorised and non-motorised) as a result of road closures during the construction phase. This is likely to result in increased congestion and increased journey times in the vicinity of the Proposed Scheme. § Potential adverse impacts on users of community facilities, healthcare services, businesses and parks and greenspaces, through disruption of access from road closures, pavement closures and diversions during the construction phase. § Noise and vibration effect on human health, particularly for those who live and/or work within close proximity to the Proposed Scheme. § Surrounding site users may be exposed to contaminated dust due to ground disturbance. § Potential adverse impacts to Non-Motorised Users as a result of pavement closures during the construction phase.	§ The following measures may be implemented during the construction works to minimise effects one people, communities and health: · The public should be informed of the nature, timing and duration of construction works via the council website, newsletters and liaison with KC where deemed necessary. · The provision of clear directions for any alternative routes and appropriate alternative diversions to be clearly publicised to maintain public access. · For health and safety reasons, public access will be redirected away from construction areas wherever possible. · Visual effects to be reduced as far as possible through a 'tidy construction' site policy. · Implementation of effective traffic management to maintain access to community facilities. · Best practice construction methods should be used to minimise noise levels.	§ The PLO will be responsible for maintain a register of community consultation including a list of complaints and actions. This is to be made available to the LPA on request.

Environmental Topic	Potential Impacts	Environmental Action/Mitigation	Construction Monitoring
	§ Potential disproportionate adverse impacts to the following groups: · Population with lower income; · Elderly people; · People with disabilities; · Pregnant women; · Families with young children; and · Cyclists.		

8. SUMMARY

8.1.1. This OCEMP supports the TCF Heckmondwike Bus Hub Scheme. It is anticipated that works will commence in Quarter 1 of 2023. Enabling works are expected to take 3 months, followed by main works that will take 9 months.

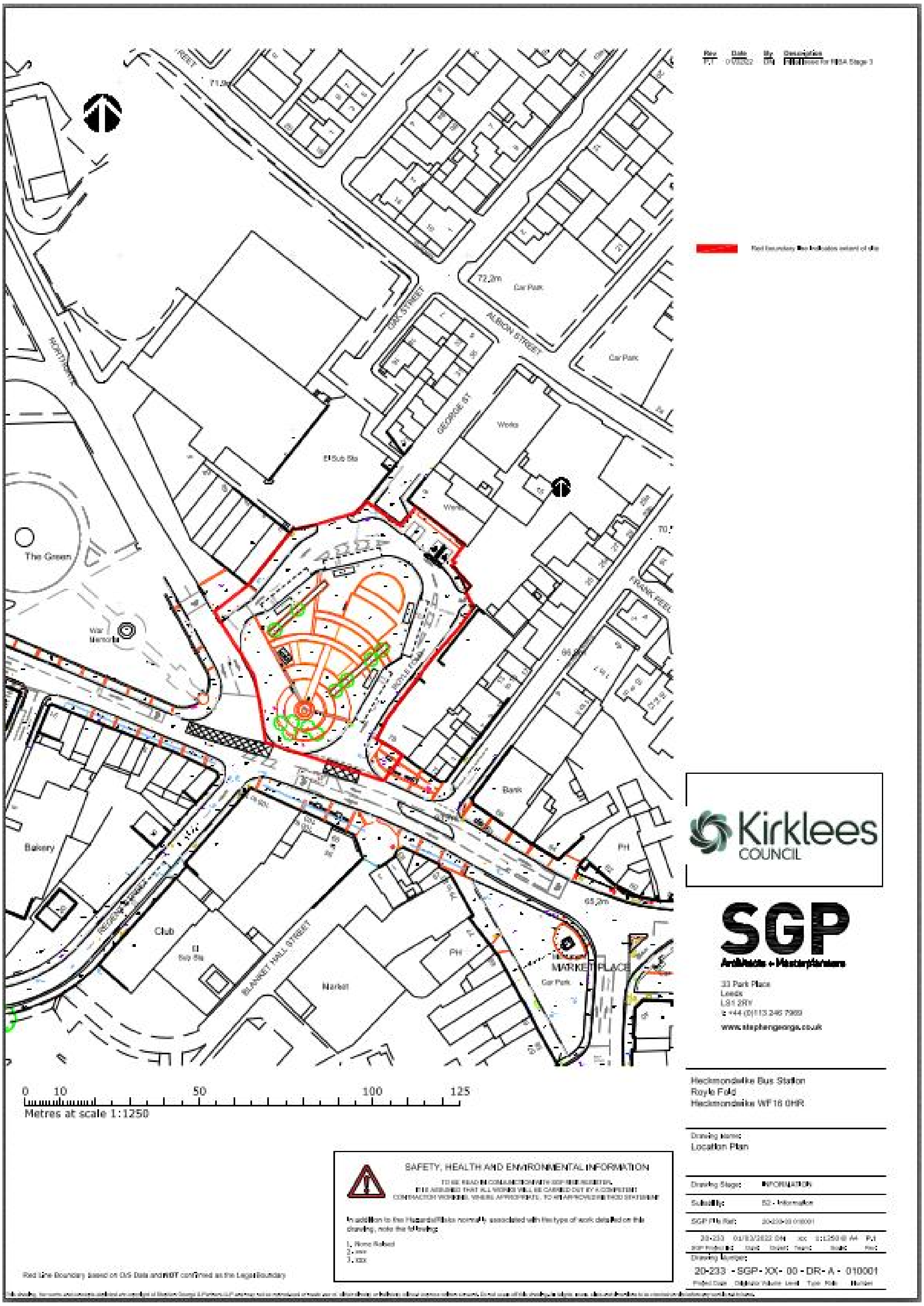
8.1.2. This report has been developed to outline measures to avoid, minimise and mitigate the potential negative environmental effects relating to the Proposed Works of the Scheme and to ensure industry best practice is followed. This is an OCEMP which is to be developed further by the Principal Contractor prior to the commencement of construction.

8.1.3. The consent of the CEMP will be agreed with the KC and other organisations as appropriate, prior to the commencement of construction.

8.1.4. The CEMP is a 'live document' and is to be updated following the instruction of the Principal Contractor and during the Proposed Works. The Principal Contractor will be required to comply with the requirements of the CEMP.

Appendix A

LOCATION PLAN


Car Park
ALBION STREET
GEORGE ST
Works
El Sub Sta
The Green
War Memorial
Bank
Bakery
Club
BLANKET HALL STREET
Market
PH
MARKET PLACE
0 10 50 100 125
Metres at scale 1:1250
Kirklees COUNCIL
SGP
33 Park Place
Leeds
www.stephengeorge.co.uk
Heckmondwike Bus Station
Royle Fold
Heckmondwike WF16 0HR
Location Plan
Drawing Stage: INFORMATION
S2 - Information
20-233 - SGP - XX - 00 - DR - A - 010001
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
1. None Raised

Appendix B

CEMP REVIEW TABLE

Table B-1 - CEMP Review Table

Review Tracker					Reviewed By	
Review period	Due Date of Review	Actual Date of Review	Sections Amended	CEMP Issue Number	Project Manager/Site Manager	Environmental Co-ordinator

Table B-2 - Environmental Legal and Other Requirements Register

Legislation/Requirement	Regulator	Application to the Scheme	Control Measures	Responsible Person	Timeframe for Review

Table B-3 - Training Undertaken

Name of Training	Details of Training	Date Undertaken

Table B-4 - Site Monitoring Sheet

Details of Complaint	Date of Complaint	Details of Resolution	Date of Resolution

Appendix C

ENVIRONMENTAL ASPECTS AND IMPACTS REGISTER

Table C-1 - Environmental Aspects and Impacts Register

Environmental Aspect			Impact Mitigation and Management Programme	
Issue	**Sensitive Receptors**	**Potential Impact**	**Mitigation Measures**	**Time Frame**

Appendix D

REGISTER OF CONSENTS, UNDERTAKINGS AND ASSURANCES

Table D-1 - Register of Consents, Undertakings and Assurances

Environmental Topic	Consent/License/Permit Type	Description	Consent Granting Body	Responsibility	Date Required	Programme Risk	Further Comments

Appendix E

EMERGENCY CONTACT DETAILS

Table E-1 - Emergency Contact Details

Name	Company	Person	Contact Number(s)	Contact Address
Contractor				
NEC Project Manager				
Site Manager				
Electricity Supplier				
Employer				
Environment Agency				
Environmental Co-ordinator				
Environmental Manager				
Ecological Clerk of Works				
Fire Service				
Gas Supplier				
Other Utilities				
Project Hotline				
Sewerage Provider				
Specialist Clean-up Contractor				
Telephone/Internet Provider				
Waste/Hazardous Waste Coordinator				
Waste Management Contractor				
Water Company				

2 London Square
Cross Lanes
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GU1 1 UN

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