

+BOWMER KIRKLAND

**Kincardine Court,
Manchester**

**Construction Environmental
Management Plan**



Project Details	
Name	Kincardine Court
Address	Kincardine Road, M13 9SY

Approval	Prepared By	Reviewed By	Approved By
Name	Paul Smith, PIEMA	Mark Lambkin	Manchester City Council through discharge of Planning Condition 6 of application 124472/ FO/2019
Position	Group Systems and Compliance Manager	Project Manager	
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1. Introduction

1. Introduction

This Construction Environmental Management Plan (CEMP) has been developed to identify the environmental mitigation measures and management controls to minimise the construction impact extension to the existing Student Accommodation.

Bowmer and Kirkland have implemented a Integrated Management System (IMS) which is externally verified by a UKAS accredited certification body, BM Trada to ISO9001, ISO 14001 and ISO 45001 (See **Appendix C**).

Quality

Bowmer and Kirkland recognise the importance of developing our business through continued improvements in quality. By consistent and effective implementation of a robust Quality Management System (QMS) we believe that we can add value to the project development process for the benefit of Clients and users of our buildings. Our Quality Management System complies with ISO 9001:2015, and delivers the objectives of our Quality Policy (see **Appendix C**)

Environment

Bowmer and Kirkland are committed to sound management practices that minimise the potential effects of building activities on the environment. By encouraging the sustainable use of natural resources, minimising environmental pollution, reducing waste and encouraging recycling, we aim to contribute to improving the world in which we work and live.

We believe that a proactive approach for promoting awareness of environmental issues with our employees, together with our development of various environmental initiatives, helps us to grow an even more sustainable business to the future.

Bowmer and Kirkland's Environmental Policy (see **Appendix C**) sets out the company's strategy for minimising the environmental impact of our site and office operations. Through promoting the prevention of pollution, energy efficiency and the sustainable use of natural resources in all our construction activities and those of our sub-contractors, we endeavour to achieve a high standard of environmental performance.

Our Environmental Management System complies with ISO 14001:2015, and delivers the objectives of our Environmental Policy.

Health & safety and Well-being

Bowmer and Kirkland has the highest regard for the well-being of all persons involved in its activities and others who may be affected by them. We are committed to working with our Clients and external stakeholders to manage and control Health & Safety Risks. It is our belief that all accidents and occupational ill health can be prevented by adherence to our policies and procedures. We take a sensible, positive approach to Health & Safety.

Through the company's Health & Safety Policy (see **Appendix C**) the importance of discharging our statutory obligations and duties, and our leadership and commitment to effective Health & Safety management is defined. Best practice is accepted as a core aim throughout business operations and integral to maintaining a strong, positive safety culture. To facilitate this aim, the company's management system and procedures has gained accreditation to ISO 45001:2018

Corporate and Social Responsibility

Bowmer and Kirkland is underlining its commitment to sustainability through compliance with BS ISO 26000:2010 (see certificate in **Appendix D**). This Standard presents a framework for Bowmer and Kirkland to ensure that socially responsible behaviour is incorporated into its existing policies, procedures, and performance. Bowmer and Kirkland has a strong commitment to ethical practices in its business operations and hopes to strengthen these through a more rigorous assessment of its social responsibility policies. Adherence to the Standard will create multiple benefits, not only improving the company's environmental credentials and enhancing its brand reputation, but also supporting more cost-effective business practice to build a long-term competitive advantage. Engaging staff to improve the company's environmental performance can also improve employee motivation and bring sustainability into mainstream corporate communications. Meanwhile, monitoring environmental performance can present an insight into potential risks and opportunities to the business.

1. Introduction

This Construction Environmental Management Plan has been produced to identify the controls that will be implemented by B+K throughout the project to minimise the impact from the construction operations.

The CEMP is being compiled to meet the requirements of the Planning Decision notice for the development (Manchester City Council Ref: 124472/FO/2019), specifically Condition Number 6 which is extracted below:

Prior to the commencement of the development, a detailed construction management plan outlining working practices during development shall be submitted to and approved in writing by the local planning authority, which for the avoidance of doubt should include;

- *Display of an emergency contact number;*
- *Details of Wheel Washing;*
- *Dust suppression measures;*
- *Consultation with local residents;*
- *Compound locations where relevant;*
- *Location, removal and recycling of waste;*
- *Routing strategy and swept path analysis;*
- *Parking of construction vehicles and staff; and*
- *Sheeting over of construction vehicles.*

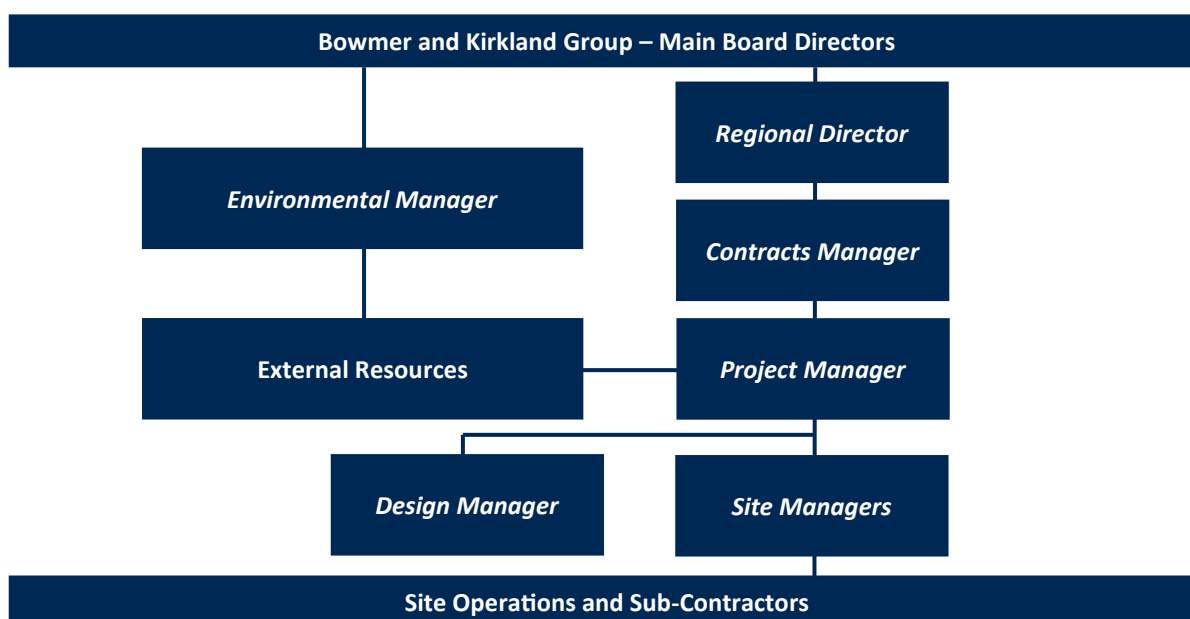
The development shall be carried out in accordance with the approved construction management plan.

In addition the measures identified in this CEMP, Bowmer and Kirkland intend to ensure the implementation of sound environmental management practices for all issues by the implementation of their Environmental Management System (EMS) in the project. Bowmer and Kirkland's EMS is registered to meet the requirements of ISO14001:2015 by a UKAS accredited certification body, BM TRADA (Certificate No. 1133 included in **Appendix D** of this document).

The project is due to commence enabling activities on 19th July 2021 and being complete on 1st October 2021. The main works are due to commence on 4th October 2021 with forecast completion being 5th September 2022.

2. Organisation and Responsibilities

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Regional Director

The Regional Director takes overall responsibility for all projects conducted by the construction region responsible for delivering the project and will visit the site on a regular basis.

Contracts Manager

The Contracts Manager (CM) takes Senior Management Responsibility for the overall project. The Contracts Manager will not be permanently on site but will visit the project 1-2 days per week to ensure the requirements of this CMS and Bowmer and Kirkland’s IMS are fully implemented and effective. The Contracts Manager will conduct a formal inspection of the Site Operations on a monthly basis to assess the adequacy of Health, Safety and Environmental controls.

The Contracts Manager along with the Project Manager is responsible for liaison with the public and community groups during construction. The Contracts Manager will manage communication with the public and wider community which will include meetings, notices, news-letters and site visits as appropriate. This includes overseeing the resolution of any complaints raised relating to nuisance during the work.

Project Manager

The Project Manager is responsible for the day to day management of the project and will be permanently on site during the works. This includes the selection of competent sub-

contractors and the inclusion of control measures in their sub-contracts. The Project Manager, in conjunction with the Site Managers, will monitor the works on a daily basis to ensure the specified controls are implemented and effective. In addition, the Project Manager will ensure that the project is inspected on a weekly basis for compliance with Health, Safety and Environmental compliance. The Project Manager will assist the Contracts Manager in liaison with the public and community groups during construction. The Project Manager will assist in communication with the public and wider community which will include meetings, notices, news-letters and site visits as appropriate. This includes assisting with the resolution of any complaints raised relating to nuisance during the works.

Design Manager

The Design Manager is responsible for the management of the design consultants to ensure that the project specification is established in accordance with project requirements, building regulations and relevant standards. The Design Manager will be permanently on site during the early stages of the project and will visit site regularly during the later stages of the project. The Design Manager will liaise with relevant parties on the final scheme design and ensure advice is provided to the Project Manager on the potential impact of proposed construction methods.

2. Organisation and Responsibilities (Continued)

Site Managers

Site Managers are based permanently on site during the works, the number of site managers will vary depending on the construction output. The Site Managers are responsible for monitoring the implementation and effectiveness of the specified controls on a day to day basis. This includes the induction of all sub-contractor's operatives and liaison with their management; should improvements be required. The Site Managers, under instruction from the Project Manager, will formally inspect the works on a weekly basis for compliance with Health, Safety and Environmental compliance.

Environmental Manager

The Environmental Manager takes overall responsibility for the organisational legal compliance of the Bowmer and Kirkland Group of Companies. This includes ensuring our EMS recognises current regulatory and other requirements and the specified controls are effective in achieving compliance, preventing pollution and reducing the environmental impact of the organisation. The Environmental Manager will monitor the compliance of the project from information provided by external resources (see below) and site visits, ensuring the project is audited internally at least once.

External Resources

The following resources are employed by the Bowmer and Kirkland Group:

RG Wilbrey Consultants – conduct Health, Safety & Environmental inspections of the project bi-weekly

Adler & Allen – provide pollution response 24/7 mobilising resources where required

Cardinal Environmental – provide legislation updates and specialist legal advice where required.

Complaints Procedure

Although the measures set out within this CMS are intended to minimise the impacts of construction activities on the local community by ensuring that neighbouring residents are informed of the construction programme and timescales through either door step introduction, newsletters and regular communication during the works, it is possible that complaints may be raised concerning construction activities. As previously detailed, contact details and information concerning construction will be provided to local residents, and the Site Managers will be available to meet and explore issues with concerned parties directly via appointment.

Any complaints received will be taken seriously and addressed immediately by the construction team and designated Site Managers. All complaints that are received will be reviewed in regular site meetings to ensure that any required actions are communicated to all employees, as appropriate.

Records of complaints are recorded within our Management System as well as through Considerate Constructors Scheme of whom B+K are an Associate Member.



3. Scope of Work

3. Scope of Work

The works will include for the erection of a part 4, 5, and 6 storey extension to the existing Unite Students development at Kincardine Court, Manchester. The scheme comprises 92 new student beds in a mix of cluster flats and studios, with associated communal space, cycle parking, recycling & refuse storage and associated plant. The new extension will increase the overall number of student beds on site to 321.



Fig 1 – Existing Site Plan



Fig 2 – Proposed Site Plan

4. Construction Impacts

4. Construction Impacts

The following table summarises the current key features on and around the development site which may be impacted by Bowmer and Kirkland's operations. In assessing the significance of the impact potential on these receptors we have taken into consideration reports received to date and publicly available information.

		Potential Impact Severity								
Receptor	Description	Noise	Vibration	Dust	Fumes	Visual	Physical Harm	Flooding	Pollution	Heritage
General Community	The site is within a residential area, with commercial units to the South and residential to the North and West, to the East is Gartside Gardens, recreational area.	M	M	L	L	M				
Residential Areas	The nearest residential neighbours are the properties on Haymans Walk, in particular no 9 , approx. 3m from the proposed extension. Residential properties are also located along Whitekirk Close.	H	M	M	L	H				
Ground Conditions	Phase 2 Ground Investigation has been completed by Curtains (Aug 2020) No significant contamination was identified, any arising from drainage and foundations will be removed from site as a waste.								L	
Ecology	A Preliminary Ecological Appraisal (PEA) and Preliminary Roost Assessment (PRA) have been carried out by Plowman Craven. Bats - The roof of the existing building is not a suitable habitat for bats no further action required Birds - Nesting birds in hedgerow, removed prior to nesting season no further action required.						L			
Tree's	An arboriculture impact assessment has been issued by The Environmental Partnership (June 2019) Trees and hedgerows that would be impact by the works have already been removed prior to bird nesting season.						L			

KEY:	Insignificant	Low	Medium	High
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5. Construction Mitigation

5. Construction Mitigation

In order to reduce the impact of the construction phase of the development Bowmer and Kirkland propose to implement our Integrated Management System (IMS) for the project. Our IMS is registered to meet the requirements of the international standard ISO 9001, ISO14001 and ISO 45001 by a UKAS registered certification body, BM TRADA (see **Appendix C** for certificate). Bowmer and Kirkland's IMS includes standard controls to mitigate the impact of our construction activities during normal construction operations. Site specific issues requiring project specific mitigation have been considered and are summarised in the following table, these mitigation measures will be further detailed as the CEMP is developed on the receipt of further information:

	Potential Impact								
Description	Noise	Vibration	Dust	Fumes	Visual	Physical Harm	Flooding	Pollution	Heritage
Workings Hours / Delivery Hours Working hours for site will be: Monday to Friday 08:0 – 18:00 Saturday 08:00 – 13:00 No noisy construction activity or starting of plant until 08:00. There will be no works on Sundays or Bank Holiday, Where normal construction activities are expected to exceed these working hours then EHO will be informed in writing at least 10 days prior to commencing works. Newsletter drops to the local area will also be implemented during construction.	✓	✓	✓	✓					
Statutory Nuisance - Vibration To minimise issues caused by vibration during construction, Best Practicable Means will be employed in accordance with BS5228:2009+A1 2014, Part 2 that gives guidance on vibration levels that could be used to assess the likely impacts of construction activities, on the environment and people. The foundation solution is CFA piling for extension block therefore the vibration risk is significantly reduced in accordance with BS 5228, Part 2. Any complaints with regards vibration will be recorded and managed, any additional mitigation will be actioned to reduce the impact for construction activities as per BS 5228, Part 2.		✓							
Lighting Construction phase lighting shall be designed to minimise effects beyond the site boundary. • Where possible site lighting will be LED which virtually eliminates upward glare, • Warm white spectrum (<2700k) lamps to be used • Lights will be shrouded / pointed downward. • Pointed away for areas of vegetation.					✓				
Statutory Nuisance - Noise To minimise issues caused by noise during construction, Best Practise Means will be employed in accordance with BS5228:2014 Part 1 during each phase of the project. Noise mitigation in accordance with BS 5228 Part 1, see Section 6 Noise Mitigation , that will be implemented during construction.	✓								

5. Construction Mitigation (Continued)

Description	Potential Impact								
	Noise	Vibration	Dust	Fumes	Visual	Physical Harm	Flooding	Pollution	Heritage
Waste Management Bowmer and Kirkland will apply the waste hierarchy to the project to minimise waste production and subsequent landfill burden. No waste removed from site will be permitted to leave without the provision of an adequately completed waste transfer note and copy of valid waste carrier licence for the person removing the waste and environmental permit for the site where the waste is being taken. The burning of waste is banned on all B+K construction sites. In order to implement these requirements and monitor the amount of waste being produced by the project a Site Waste Management Plan will be prepared and maintained throughout the course of the construction phase. See also Section 7 Waste Management	✓	✓	✓		✓	✓	✓	✓	
Traffic Management Traffic Management Plans have been included in Section 6 . All deliveries will be booked in with Bowmer and Kirkland's Site Management who will avoid slots at peak hours. Road will be kept clean by the provision of wheel cleaning facilities and road sweepers as required.	✓	✓	✓	✓	✓	✓		✓	✓
Spillage Emergency Planning An emergency plan for spills of fuels, oils or other CoSHH materials will be prepared for the project and briefed to all operatives. All minor spills will be cleared and consigned off site as hazardous waste. An emergency response contractor, Adler and Allan, will be retained to attend site in the event of a major spill or spill which may affect any water course.						✓		✓	
Statutory Nuisance – Dust The control of dust is a prime concern for all construction projects, particularly during periods of dry and windy weather, there are also ecological receptors which may be impacted by dust. Details of dust mitigation measure can be found in Section 7 Dust Mitigation			✓		✓			✓	
Tree Tree protection in accordance with BS5837:2012 will be erected to ensure trees that are to be retained that maybe impacted by construction activities are protected.						✓			

6. Noise Management

6. Noise Management

Noise Mitigation Measures - General

The quietest and lowest impact processes that are reasonably practicable will be employed on-site in the undertaking of all construction works and in accordance with the best practise under BS5228:2009+A1 2014, Part 1. Measures that can be implemented as a means of minimising noise include:

Construction Mitigation

- Consideration of alternative construction methods for high risk activities.
- Use of enclosures particularly in the area nearest to the east site boundary.
- Keep internal haul routes well maintained and avoid steep gradients;
- Minimize drop height of materials;
- Radios and other noise-generating devices are not permitted on site.
- Keep voices and conversation outside of the perimeter of the Site to a minimum and low in volume.
- Use of work equipment designed to reduce noise such as oil pulse impact drivers.
- Local residents will be advised of the start and finishing dates and times (particularly noisy works) and these will be timed to minimise the disruption to local residents as far as possible.
- Specific construction activities maybe required to achieve the specification finish and as such may cause extended periods or works.
- Noise monitoring to be used on site boundary.

Examples of Enclosures:

Plant	Enclosure Type	Noise Reduction
Site Generators	Ventilated acoustic enclosure	Up to 20dB
Pneumatic breakers, drills	Portable or Fixed enclosure	Up to 20dB
Rotary Drills, Diamond Drilling	Ventilated Acoustic Shed	Up to 15dB
Pumps	Acoustic enclosure with allowance for engine cooling and exhaust	Up to 20dB
Large Plant	Acoustic Screen / Fence	Dependant on design

Site Plant

- The quietest vehicles, tools and machinery shall be used as far as is reasonably practicable
- Early connection of temporary mains to reduce use of site generators
- Avoid unnecessary revving of engines and switch off equipment when not required;
- Start up plant and vehicles sequentially rather than all together
- No machinery will be permitted to start up on-site before 08:00.
- No engines left running whilst vehicles are stopped on-site;
- Local residents and businesses will be advised of the start and finishing dates and times of particularly noisy activities and these will be timed to minimise the disruption to local residents as far as possible.

Enclosures

The use of enclosures can significantly reduce noise. These range from localised enclosures to the erection of noise reducing fencing around larger activities. Enclosures will be designed in accordance with BS5228:2014 Part 1, Appendix B.

7. Dust Management

7. Dust Management

Dust Mitigation Measures

During construction and demolition, it is anticipated that the primary air pollution emissions will be associated with dust generated from plant movement on site. The following mitigation follows the principals of IAQM Guidance.

Site Management

- Develop and implement a stakeholder communications plan that includes community engagement before work commences on site;
- Record and respond to all dust and air quality pollutant emissions complaints;
- Make a complaints log available to the Local Authority when asked;
- Carry out regular site inspections to monitor compliance with air quality and dust control procedures, record inspection results, and make an inspection log available to the Local Authority when asked;
- Increase the frequency of site inspections by those accountable for dust and air quality pollutant emissions issues when activities with a high potential to produce dust and emissions are being carried out and during prolonged dry or windy conditions; and
- Record any exceptional incidents that cause dust and air quality pollutant emissions, either on or off the site, and ensure that the action taken to resolve the situation is recorded in the log book.

Preparing and Maintaining the Site

- Plan the site layout so that machinery and dust-causing activities are located away from receptors, as far as is possible;
- Fully enclose site or specific operations where there is a high potential for dust production and the site is active for an extensive period;
- Install green walls, screens or other green infrastructure to minimise the impact of dust and pollution;
- Avoid site runoff of water or mud;
- Keep site fencing, barriers and scaffolding clean using wet methods;
- Remove materials that have a potential to produce dust from site as soon as possible, unless being re-used on site. If they are being re-used on-site cover as described below;

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 recycled water where possible and appropriate;
- Use of covered skips;
- Minimise drop heights from loading or handling equipment and use fine water sprays on such equipment wherever appropriate; and
- Ensure equipment is readily available on site to clean any dry spillages, and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods.

Measures Specific to Earthworks

- Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable;
- Only remove the cover from small areas during work, not all at once.
- Use bowser water dust suppression on haul roads and traffic areas through the site.

Measures Specific to Construction

- Ensure aggregates are stored in banded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place;
- For supplies of fine powder materials ensure bags are sealed after use and stored appropriately to prevent dust.

7. Dust Management

Dust Mitigation Measures

Measures Specific to Trackout

- Regularly use a water-assisted dust sweeper on the access and local roads, as necessary, to remove any material tracked out of the site;
- Avoid dry sweeping of large areas;
- Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport;
- Access gates should be located at least 10 m from receptors, where possible; and
- Apply dust suppressants to locations where a large volume of vehicles enter and exit the construction site.

Waste Management

- Reuse and recycle waste to reduce dust from waste materials; and
- Bonfires and burning of waste materials is banned on all B+K sites.
- Skips on site are to be located away from site boundary and are to be covered where necessary to prevent the escape of waste.
- Stock piles of materials soils are to be seeded if there are being retained for use later in the project.
- Stock piles of aggregates are to be kept dampened down during periods of dry and windy weather.
- All skips / wagons leaving site are to be covered.

8. Construction Logistics

8. Construction Logistics

Site accommodation will be located in a compound area to the rear In the car park, cabins will be fire engineered due to being <10m from the residential properties (see full site phasing plans see **Appendix B**).



Due to the site location the existing security fencing will be maintained, heras fencing will be used where required on site. (see full site phasing plans see **Appendix B**).

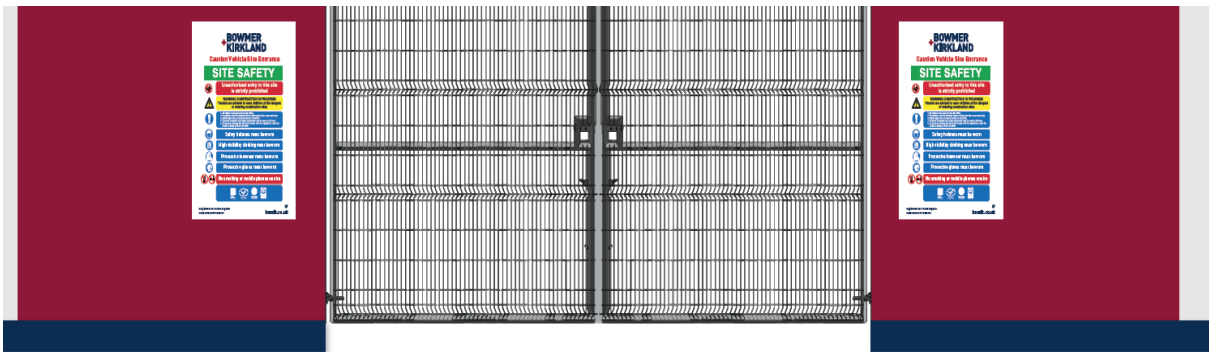
All site fencing including site boundary will be inspected on a daily basis by B+K Site Management and records maintained.

Site Security

Site Gate will be manned all times throughout the construction period for all deliveries in accordance with the working hours. The Site frontage will be enclosed with solid hoarding and will comply with Fire Risk Assessments these may be solid metal hoarding and including security gates.

The Site will be secured at all times. A separate pedestrian access gate will be provided. Access to site will be controlled via biometrics turnstile control.

B+K Standard Pedestrian Access gate



B+K Standard Pedestrian Access gate



The site entrance gate will also display the emergency contact details of the site including out of hours contact details.



8. Construction Logistics (continued)

The Gate Cabin will be the focal point for all vehicles entering / leaving the site. This will be the operational base for our security personnel who will manage access and egress from the site alongside the biometric system.

In order to reduce disruption to neighbouring businesses and residents during the construction periods we will take several steps to ensure as little impact as possible on the roads surrounding the site. These will include the following.

- All subcontractors will be advised of the requirement for site tidiness, and enforcement of this rule will take place.
- Newsletter drops to local community informing of progress and planned works.
- Should any complaints arise, they will be dealt with promptly and courteously, and suitable compromises agreed wherever practicable, subject to the normal restrictions of construction sites.
- There will be limited parking allocation for operatives on site.
- Use of Public Pay and Display and nearby NCP Car parks for operatives.
- Parking Bays on Whitekirk Close will be suspended to allow delivery access (See appendix A Sweep Path)
- Minimise the accumulation of loose materials on site road by regular sweeping.
- Ensure bulk deliveries/collections are sheeted (where appropriate).
- Provide wheel washing facilities (wet / dry) at site exit point as necessary.
- Gully guards will be used in the road gullies.

Due to the location of the project it is imperative we reduce the risk of any mud on the surrounding roads due to the construction process. The risk of this will be higher within the first 15 weeks of the project. Due to the nature of the works over this time, a jet wash will be located on an area of hard standing prior to exiting the site and any runoff contained within the site. To manage mud and debris on the highway the following methods will be used:

- 1) Due to site restrictions the use of a jet wash will not be suitable. Muck away and delivery will be loaded and unloaded from the existing tarmac surface, significantly reducing the risk of mud on the road
- 2) Road sweepers will be used on a regular basis, this will increase during periods of wet weather as part of the periodic review.

- 3) Gully Guards (or similar) will be used to protect existing road gullies from silt, and will be subject to regular inspections. These will be checked daily during wet weather periods.

Storage of Materials

The site compound will be used for the Construction Material; additional areas of material storage will also be available in the proposed construction areas. (see **Appendix B**). Some material will be used in construction areas directly from the transport for example, structural steel will be craned off and positioned for erection directly in the construction area.

Materials will not be unloaded outside of the construction areas or site compound where possible. If Unloading outside of the construction areas and site compound is necessary, it will be under control of a banksman and approved by B+K Site Management.

Vehicle Dwell Times

Construction delivery vehicles are not anticipated to be required on-site for a period longer than necessary to safely unload, depending on materials being delivered or collected. The Site Manager will allow sufficient times between deliveries to ensure that no vehicles arrive or depart at the same time, to minimise potential disruption to traffic flow on the surrounding local highway network.

Additional Parking Options

A Pay and Display Car Park is located opposite the site in Kincardine Road. There is a further NCP Car Park at Manchester Aquatic Centre approx. 5 Minutes walk from site.

Sweep Path

A sweep path analysis has been carried out for access to site of delivery vehicles for rigid HGV and Articulated HGV.

A Banksman / Traffic Marshall will be on site to manage the access to site that may include the banking of HGV's into the site.

The Sweep path can be found in **appendix B**.

8. Construction Logistics (continued)

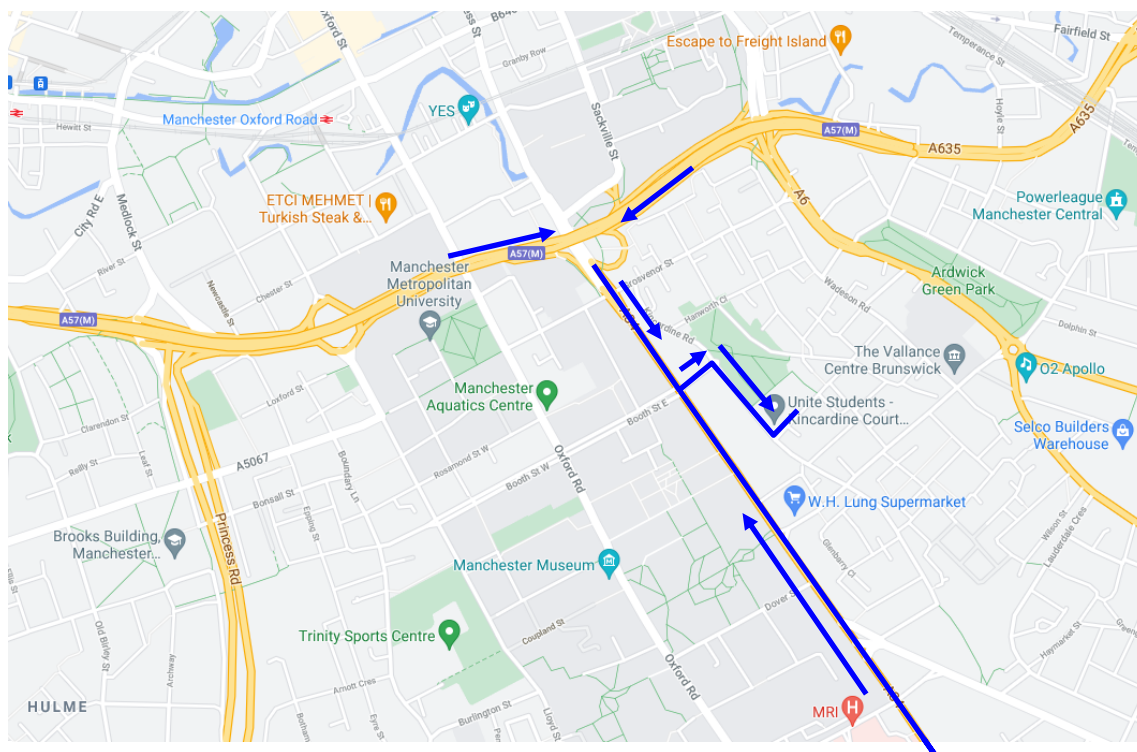
Logistics Route

The proposed construction vehicle routing strategy to be employed for the duration of the construction programme is shown below. The routing strategy has been developed taking into consideration highway routes in the vicinity of the Site and sensitive receptors.

Route to site (Blue Route)

From the A57(M), Manchester Ring Road take the exit for the A34 at the 2nd traffic light junction turn left onto Inchley Road, then turn right onto Kincardine Road turn left on to Whitekirk Close, the site entrance will be to the left.

From the A34 (South) turn right onto Inchley Road, then turn right onto Kincardine Road turn left on to Whitekirk Close, the site entrance will be to the left.



On leaving the site all construction deliveries must turn right out of the site entrance, then right onto Kincardine Road then at the traffic island turn left onto Inchley Road towards the A34 for access to A34 South or Manchester Ring Road, A57(M) to the north

8. Construction Logistics (continued)

Construction Vehicle Movements

The following table details the typical “Large Construction Vehicles” that may be required on site, these numbers will be dependant on the phase of works being undertaken., the numbers stated are indicative of the potential number of vehicle movements and will vary depending on construction programme phasing throughout the project.

For the avoidance of doubt, “Large Construction Vehicle” will be defined as any vehicle larger than a long wheel base transit type van (length 4.1m, width 1.7m, height 1.8m, payload 1200 – 1500kg). Vehicles below these specified dimensions will be defined as “General Construction Vehicles”.

Frequency of Large Construction Vehicles

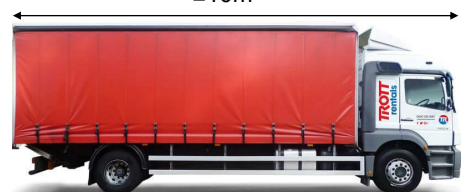
Construction Activity	Type of Vehicle	Size of Vehicle	Number of Movements (Daily)	Duration
Groundworks	8 Wheel Tipper	10m x 2.4m	5	Short
Muck Shift	8 Wheel Tipper	10m x 2.4m	5*	Short
Imported Capping Layer	8 Wheel Tipper	10m x 2.4m	2	Short
Piling	Concrete Mixer	7.5 x 2.5m	3	Short
Foundations - Concrete	Concrete Mixer	7.5 x 2.5m	5	Short
Structural Steel	Flatbed / Articulated	16.5m x 2.55m	4	Medium
Floor Slab Concrete Pours	Concrete Mixer	7.5 x 2.5m	3	Medium
Bathroom Pods	Flatbed / Articulated	16.5m x 2.55m	3	Medium
Brick / Blocks	Flatbed / Rigid	10m x 2.55m	2	Medium
Envelope Cladding	Flatbed / Articulated	16.5m x 2.55m	5	Medium
Roofing	Flatbed / Articulated	16.5m x 2.55m	2	Medium
Building Services & Fit Out	Rigid	10m x 2.4m	5	Long
Soft Landscaping	8 Wheel Tipper	10m x 2.4m	4	Medium
Hard Landscaping	Rigid	10m x 2.55m	2	Medium

*dependant on quantity of soils being removed

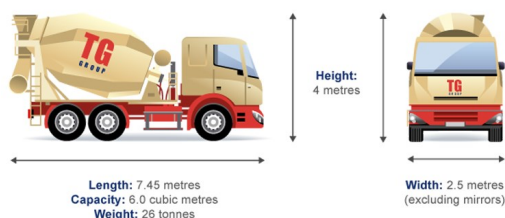
8 Wheel Tipper

Rigid (<26 ton)

≤10m



Concrete Mixer



Articulated



Flatbed



Types of large construction vehicles:

9. Waste Management

9. Waste Management

Bowmer and Kirkland will record all waste generated on site in a SWMP, this will be used to report on the performance of waste management on the site.

Construction Waste - Waste from construction activities will be disposed through an appointed waste management contractor, appointment will be on the basis of their performance of recycling of mixed waste, it is Bowmer and Kirkland's target to achieve a 95% diversion from landfill.

The following principles will be employed:

- Pollution from waste will be minimised by using the correct and safe storage of the waste.
- Segregation of different types of waste as they are generated.
- Marking of waste containers clearly with their intended contents.
- Using containers suitable for their contents.
- Disposing of different wastes in the correct containers.
- Checking the condition of waste containers before use.
- Placing containers in impervious bunded areas (if required)
- Ensuring that containers are securely covered (if required)
- Preventing damage to materials during storage.

Excavation Waste

An MMP will be in place for the re-use of site won material (made ground), any excess soils will be removed from site as a waste for re-use offsite at appropriately licensed disposal sites.

Prior to removal of any waste from site Bowmer and Kirkland will carry out the following Duty of Care checks:

- Valid waste carrier's licence
- Ensure the waste carrier is authorised to carry the type of waste for disposal.
- Obtain details of waste disposal sites and verify the waste disposal licence in place.
- Carry out checks of carriers and disposal sites with the Environment Agency Public Register.

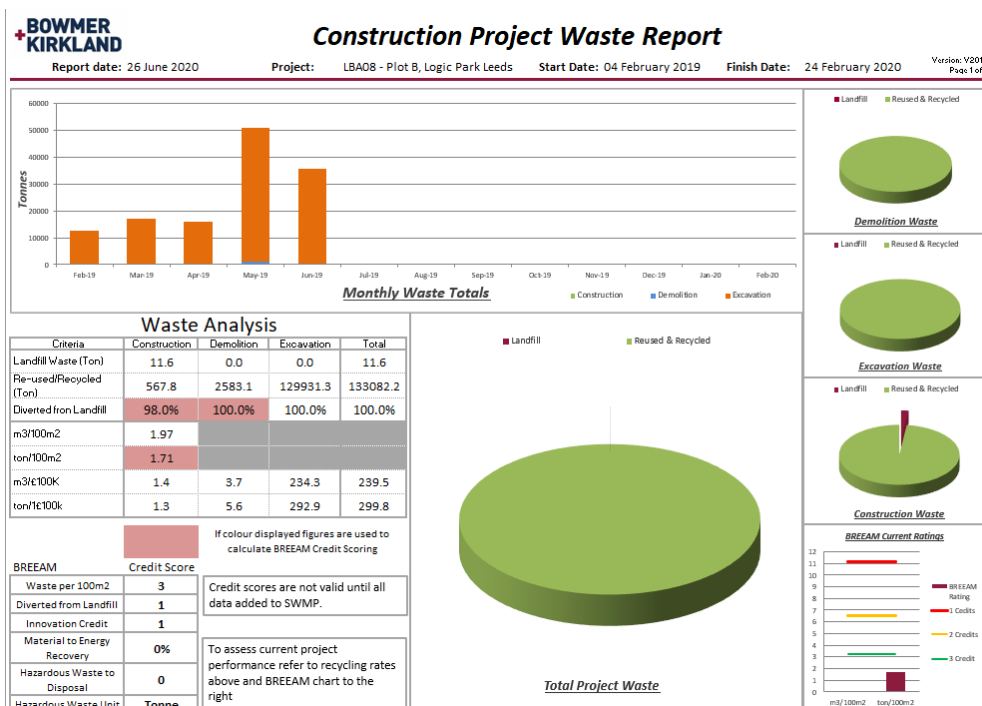
Once the checks are completed Bowmer and Kirkland will:

- Maintained records of waste transfer and record in B+K SWMP.
- Keep copies of all transfer notes of waste sent off-site.
- Check that the waste is going to the correct disposal centre as documented on the transfer notes

Waste Hierarchy

Bowmer and Kirkland will manage waste and develop the SWMP in accordance with the waste hierarchy. Specifically, the amount of waste produced will be minimised by consideration in development of the design and, where produced, will be reused before recycling / disposal options are considered.

Example waste report



10. Implementation and Review

10. Implementation & Review

The control measures identified in the CEMP, and sub-ordinate documentation, will be implemented by the following means:

- Relevant information will be communicated to sub-contractors before an order is placed during a pre-contract meeting. An order will only be placed with a sub-contractor following a commitment that they will work to the control measures specified. Where they are required to appoint specific plant, equipment or specialist resources this will be stated in their contract.
- Sub-contractors will be required to submit a detailed method statement for all works they undertake stating detailed control measures. This will be reviewed and authorised by the Site Manager prior to the commencement of operations.
- All sub-contractors will be required to monitor their own works and provide a permanent on-site Supervisor. Where many operatives are provided Supervisors will be required at a ratio of 1:8 with site operatives.
- All site operatives will be required to attend a site induction before undertaking any work. The induction will be conducted by the Site Manager and will include all control measures site operatives are required to work to.
- Access and egress from the site for operatives and deliveries / collections will be controlled by a gateman who will be supervised by the Site Managers.
- The Site Managers will walk the site daily to monitor the works and implementation of the specified controls. Where actions are required to further implement controls these will be raised with the sub-contractor's supervisor. If required they may use a red / yellow card disciplinary and or toolbox talks to improve the implementation of the specified controls.
- Any incidents or visits from regulators will be reported to the Environmental Manager by the Site Manager as an official visit.

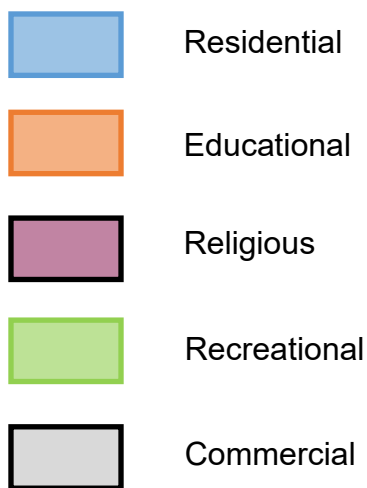
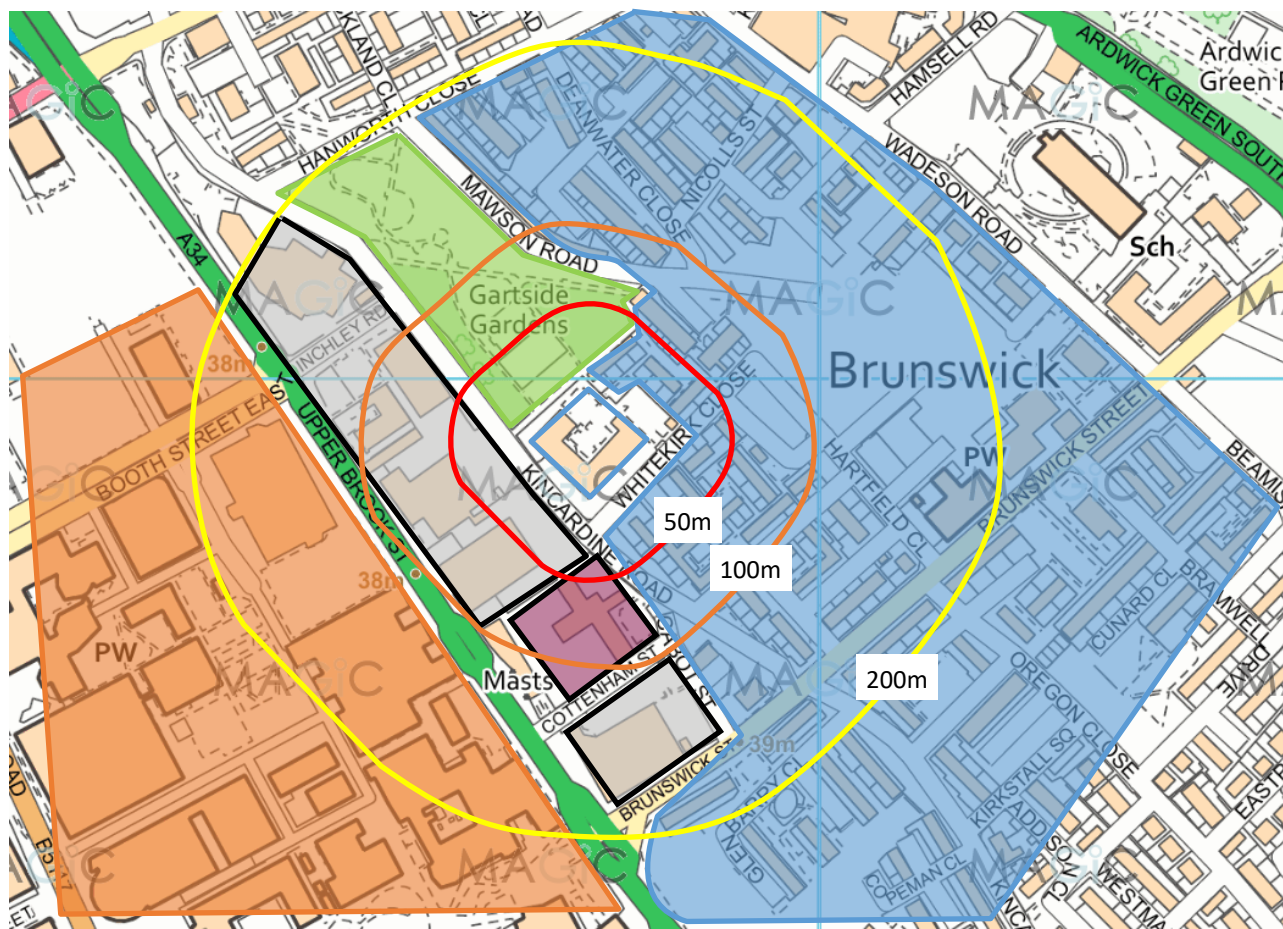
In addition to the monitoring described, the implementation and effectiveness of controls will be reviewed as follows:

- The Site Manager will conduct an inspection on general good order and security on a daily basis.
- The Site Manager will conduct an inspection of all environmental controls on a fortnightly basis, this will be alternated with the external inspection described below.
- RG Wilbrey Consultants will conduct an inspection of all environmental controls on a fortnightly basis.
- The Contracts Manager or Regional Director will conduct an inspection of environmental controls on a monthly basis.
- The Environmental Manager will ensure the project will be audited for compliance with our Environmental Management System, controls which have been specified and legal requirements at least once during the project.
- A project meeting will be held on a monthly basis, to be attended by the Site Project Team, to review the results of the above monitoring and inspections. The effectiveness of the specified controls will be considered and any actions required to improve the overall environmental performance of the project agreed and documentation updated accordingly.

Appendix A

Sensitive Receptors

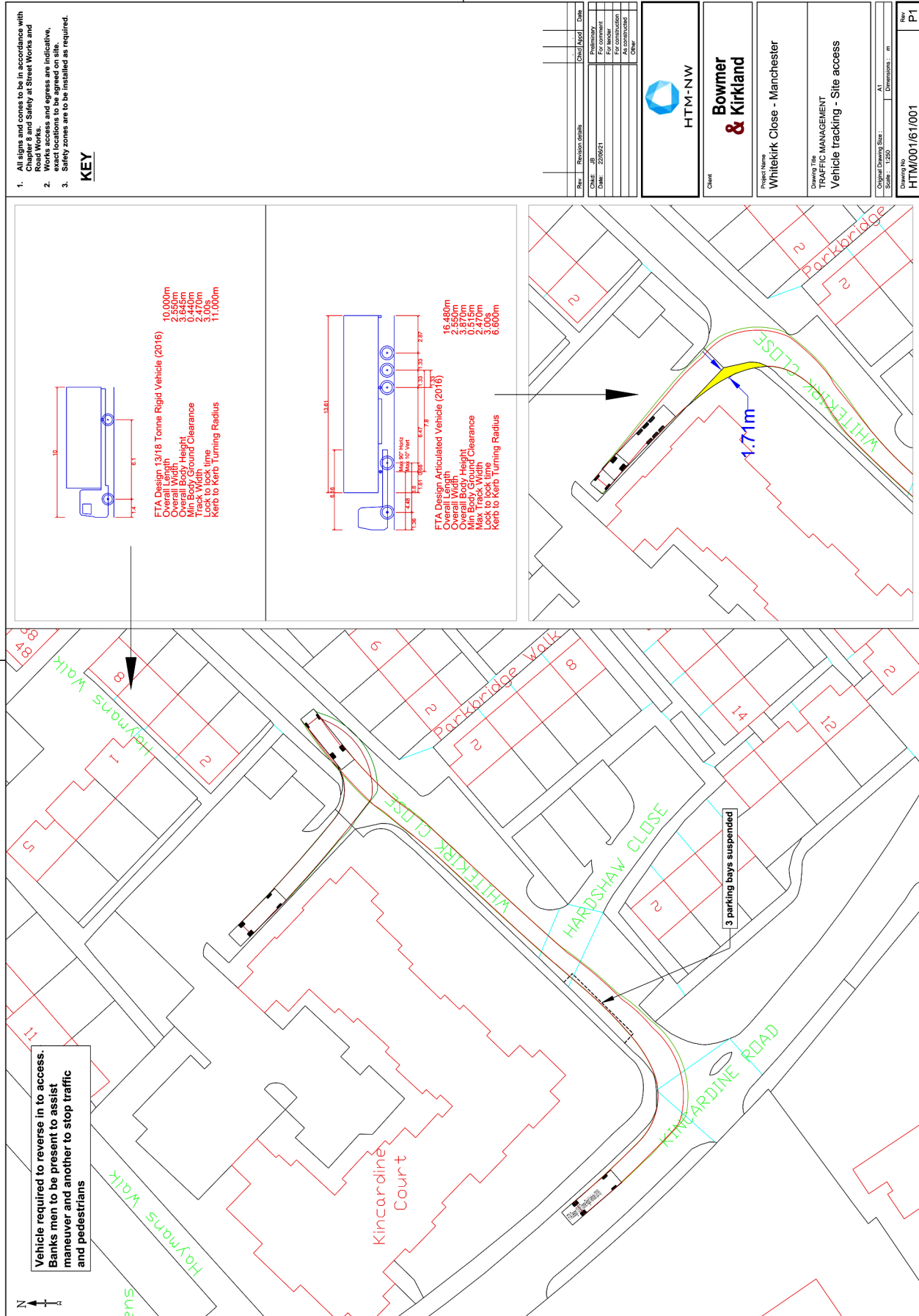
Appendix A - Sensitive Receptors



Appendix B

Site Logistics Plans

Appendix B - Site Logistics Plan



Appendix B—Site Logistics Plan



Appendix C

Quality, H&S and Environmental Policies

Appendix C - Quality, H&S and Environmental Policies

System Ref: MMA 1.3 L MANAGEMENT SYSTEM MANUAL
Sheet: 1 of 1 QUALITY POLICY



Bowmer and Kirkland are dedicated to achieving the highest possible level of Client satisfaction in everything we undertake. Over time, the company has grown substantially and adapted to suit many differing circumstances, but the underlying principle of Client satisfaction has never changed.

Throughout the Bowmer and Kirkland Group we recognise the importance of developing our business through continued improvements in quality. By consistent and effective implementation of a robust Quality Management System, we believe that we can add value to the project development process for the benefit of our Clients. During this process our objectives are to meet specific project requirements, and to exceed Client expectations.

To achieve quality performance on our construction projects, we are committed to operating and maintaining a certified Quality Management System that complies with ISO 9001: 2015. To promote efficiency this is part of an Integrated Management System which also complies with ISO 14001: 2015 (Environmental) and ISO 45001:2018 (Health & Safety).

In support of high quality performance through our Quality Management System, we have set the following strategic aims:

- Ensure that all employees remain dedicated to looking after our Clients' best interests
- Develop the skills, knowledge and capability of all existing and new employees so that we can successfully meet the changing needs and expectations of our Clients and other interested parties.
- Monitor the effectiveness of our Quality Management System and set high standards on all projects undertaken by the company.
- Set clear Quality objectives and targets that are regularly reviewed to enable continual system improvements.
- Communicate essential objectives and targets to all employees to ensure that our quality ethos permeates the entire company.
- Continually review and develop our Quality Management System working procedures to support company objectives.

This Quality Policy, together with our Management System, will be periodically reviewed to ensure their continued suitability within an everchanging industry.

Signed:

A handwritten signature in black ink, appearing to read "J.A.C. Kirkland".

J A C Kirkland - Chairman

Date: 11th January 2021

Appendix C - Quality, H&S and Environmental Policies

Appendix: MPA 9.1 K HEALTH AND SAFETY MANAGEMENT
Page No: 1 of 1 HEALTH AND SAFETY POLICY



Bowmer and Kirkland is family owned and promotes family values - Health & Safety is a core business value. We are committed to creating a future free of incidents, injuries and ill health as a result of our activities.

We are committed to working with our Clients and other external interested parties to manage and control Health & Safety risks. Managing safety, health and wellbeing and engaging with, and training our workforce are integral to how we work, along with the consultation and participation of workers.

Bowmer and Kirkland wish to maintain workplaces where everyone is valued, all views are listened to and a safe and healthy working environment is the norm and not the exception.

It is the Group's belief that all accidents and occupational ill health can be prevented by adherence to our policies and procedures. We take a sensible, positive approach towards Health & Safety. We seek to comply with legislation as a minimum standard. Good practice is accepted as core value throughout the business and integral to maintaining a strong, positive safety culture.

Nothing we do is so important that we cannot take the time to do it safely. No one is asked or expected to work unsafely.

We take pride in everyone returning home safely every day, and we will target matters of concern measuring our success against specific objectives.

All efforts will be made and sufficient resources will be made available to maintain, as far as reasonably practicable, a safe and healthy environment at every location under the Group's control.

We embrace the principles of leadership and endeavour to help everyone in our business, to eliminate hazards and reduce OH&S risks, work safely, prevent unsafe work practices, and will never knowingly walk past an unsafe act or condition on site.

Documented arrangements are maintained in our Health & Safety Management System based upon ISO 45001:2018 and the Company's operational procedures. Compliance and continual improvement are achieved by effective implementation of this Policy and monitoring and audit to evaluate performance and progress This Group Health & Safety Policy is reviewed on an annual basis and monitoring the implementation of this policy is supported by the Group Director of Health & Safety and his Team.

Leadership, passion and commitment are present at all levels. The Group expects and requires all levels of Management and Supervision to actively initiate and pursue ways and means of making the working environment as safe and healthy as possible.

It is the responsibility of ALL our employees and subcontractors to comply with legal, moral and company safety requirements. Good safety behaviour is admired, respected and recognised across the organisation. Peer pressure will reinforce policing – acting unsafely is anti-social.

All the Group Companies' Directors acknowledge their responsibility for successful implementation of the Health & Safety Policy and for promoting the continual improvement of Health & Safety within the Company.

Proper management of Health & Safety is critical in the future development of the Company and in safeguarding its reputation. Attitude and behaviour, not just statistics, are a measure of success. Our business welcomes those who support our vision and are willing to work with us – without compromise on safety.

For, and on behalf of, Bowmer and Kirkland Group

J A C Kirkland
Group Chairman
11th January 2021

Appendix C - Quality, H&S and Environmental Policies

Form: MPF 6.1 M ENVIRONMENTAL MANAGEMENT
Page No: 1 of 1 ENVIRONMENTAL POLICY



Bowmer and Kirkland are committed to promoting the conservation and sustainable use of natural resources, to preventing environmental pollution and to promote energy efficiency in all of its own construction activities and those of its sub-contractors and suppliers.

To achieve a high standard of environmental performance on our construction projects and related operations, we are committed to operating and maintaining a certified Environmental Management System that complies with ISO 14001: 2015. To promote efficiency this is part of an Integrated Management System which also complies with ISO 9001: 2015 (Quality) and ISO 45001:2018 (Health & Safety).

It is the general policy, therefore, to:

- Minimise any potential effects on the environment arising from site operations
- Liaise with our Clients on any potential environmental and sustainability issues and work with them to address issues and concerns
- Set clear environmental objectives and targets that are regularly reviewed to enable continual improvement in our overall environmental management performance
- Provide appropriate training for our employees
- Foster a constructive working environment through liaison with government and other interested parties, together with the communities in which we work
- Conserve energy through minimising consumption, maximising efficiency and monitoring our carbon emissions
- Develop management processes and operational procedures to prevent pollution and enable compliance with environmental laws, regulations, codes of practice and other relevant obligations
- Minimise the use of materials which may be harmful to the environment
- Promote efficient purchasing which will avoid waste, incorporate sustainable materials and allow for materials to be recycled at the end of building life
- Employ sound waste management practices and encourage the efficient use of materials
- Promote prudent environmental practice in design
- Recognise and encourage the contribution every employee can make towards improving the Company's environmental performance

This Environmental Policy, together with our Management System, will be periodically reviewed to ensure their continued suitability within an ever-changing industry.

Signed:

J A C Kirkland – Chairman

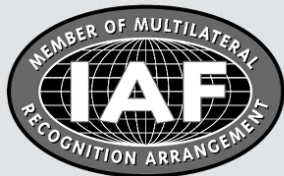
Date: 11th January 2021

Appendix D

Management System Certificates



012



CERTIFICATE OF REGISTRATION

This is to certify that

Bowmer and Kirkland Ltd

High Edge Court
Heage
Belper
Derbyshire
DE56 2BW

has been audited and found to meet the requirements of standard
ISO 14001:2015 Environmental Management System

Scope of certification

Building Contracting, including Design & Build

Certificate number: 1133.01

Issue number: 2020-01

Certificate effective date: 12 February 2020

Certificate expiry date: 18 February 2023

Date of initial certification: 19 February 2008

Karen Prendergast
Divisional Director - Certification
BM TRADA

Issuing Office: Warringtonfire Testing and Certification Limited t/a BM TRADA Chiltern House, Stocking Lane, High Wycombe, Buckinghamshire, HP14 4ND, UK
Registered Office: 10 Lower Grosvenor Place, London, United Kingdom, SW1W 0EN Reg.No. 11371436

This certificate remains the property of BM TRADA. This certificate and all copies or reproductions of the certificate shall be returned to BM TRADA or destroyed if requested. Further clarification regarding the scope of this certificate and verification of the certificate is available through BM TRADA or at the above address or at www.bmtrada.com/certified-companies/check-a-certificate

The use of the UKAS accreditation mark indicates accreditation in respect of those activities covered by the accreditation certification number 012. For further information on bmtrada activities covered by UKAS accreditation please go to: <https://www.ukas.com/search-accredited-organisations>

Multisite clients - The scope of certification shown above includes the participating sites shown in appendix A



CERTIFICATE OF REGISTRATION

This is to certify that

Bowmer and Kirkland Ltd

High Edge Court
Heage
Belper
Derbyshire
DE56 2BW

has been audited and found to meet the requirements of standard
ISO 9001:2015 Quality Management System

Scope of certification

Building Contracting, including Design & Build

Certificate number: C1000.01

Issue number: 2020-01

Certificate effective date: 12 February 2020

Certificate expiry date: 18 February 2023

Date of initial certification: 1 September 2000

Karen Prendergast
Divisional Director - Certification
BM TRADA

Issuing Office: Warringtonfire Testing and Certification Limited t/a BM TRADA Chiltern House, Stocking Lane, High Wycombe, Buckinghamshire, HP14 4ND, UK
Registered Office: 10 Lower Grosvenor Place, London, United Kingdom, SW1W 0EN Reg.No. 11371436

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Multisite clients - The scope of certification shown above includes the participating sites shown in appendix A



CERTIFICATE OF REGISTRATION

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Bowmer and Kirkland Ltd

High Edge Court
Heage
Belper
Derbyshire
DE56 2BW

has been audited and found to meet the requirements of standard
ISO 45001:2018 Occupational Health and Safety Management System

Scope of certification

Building Contracting, including Design & Build

Bowmer and Kirkland Ltd is deemed to satisfy and is registered to the SSIP Accredited Registered Scheme, which covers all ISO 45001:2018 certified sites detailed in this certificate, for the duration of this certificate and for the following CDM categories (Principal Contractor, Designer and Principal Designer). This certificate on its own should not be considered evidence of registration. To verify this organisations registration please go to the SSIP Portal:
<http://www.ssiportal.org.uk/Home>

Karen Prendergast
Divisional Director - Certification
BM TRADA

Issuing Office: Warringtonfire Testing and Certification Limited t/a BM TRADA Chiltern House, Stocking Lane, High Wycombe, Buckinghamshire, HP14 4ND, UK
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Multisite clients - The scope of certification shown above includes the participating sites shown in appendix A

Certificate number: 304.01

Issue number: 2020-02

Certificate effective date: 14 April 2020

Certificate expiry date: 18 February 2023

Date of initial certification: 16 June 2009

Planet Positive verifies that Bowmer & Kirkland have aligned their Social Responsibility Policy, Procedures & Practices with ISO 26000:2010



Steve Malkin, CEO Planet Positive
1st May 2012



ISO 26000:2010 - Social Responsibility

Bowmer & Kirkland's Social Responsibility Policy, Procedures & Practices encapsulate the seven fundamental core principles of social responsibility:

Organisational Governance	Ensuring that an organisation has an effective system and structure in place to implement its social responsibility policies.
Human Rights	The guarantee that Bowmer & Kirkland respects the fundamental rights of the people that it interacts with. It means, for example, promoting equal opportunities and diversity.
Labour Practices	Practices to ensure that the health and wellbeing of Bowmer & Kirkland's employees and those working on behalf of B&K are safeguarded, that they are well trained and receive opportunities for development.
The Environment	Stems from the recognition that businesses have an impact on their environment, both directly and indirectly. Puts procedures in place to minimise this and wherever possible have a positive impact.
Fair Operating Practices	Commits Bowmer & Kirkland to ethical, honest and fair transactions with other parties. Also promotes harmonious working practices between management and Bowmer & Kirkland's employees.
Consumer Issues	Gives consumers the confidence that Bowmer & Kirkland have their best interests at heart. Focused primarily on B&K delivering complete customer satisfaction.
Community Involvement & Development	Acknowledges the important role that Bowmer & Kirkland plays in the wider community and that Bowmer & Kirkland can promote positive community development through engagement.

