



Construction / Environmental Management Plan (CEMP) Jefferson Park Whitehaven CA28 9HE





Document History

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Proposed Site Layout



1 INTRODUCTION

1.1 OVERVIEW

A planning application has been submitted to Copeland Borough Council for the construction of 14 nr 2 bed dwellings at Jefferson Park Whitehaven.

1.2 Purpose and scope

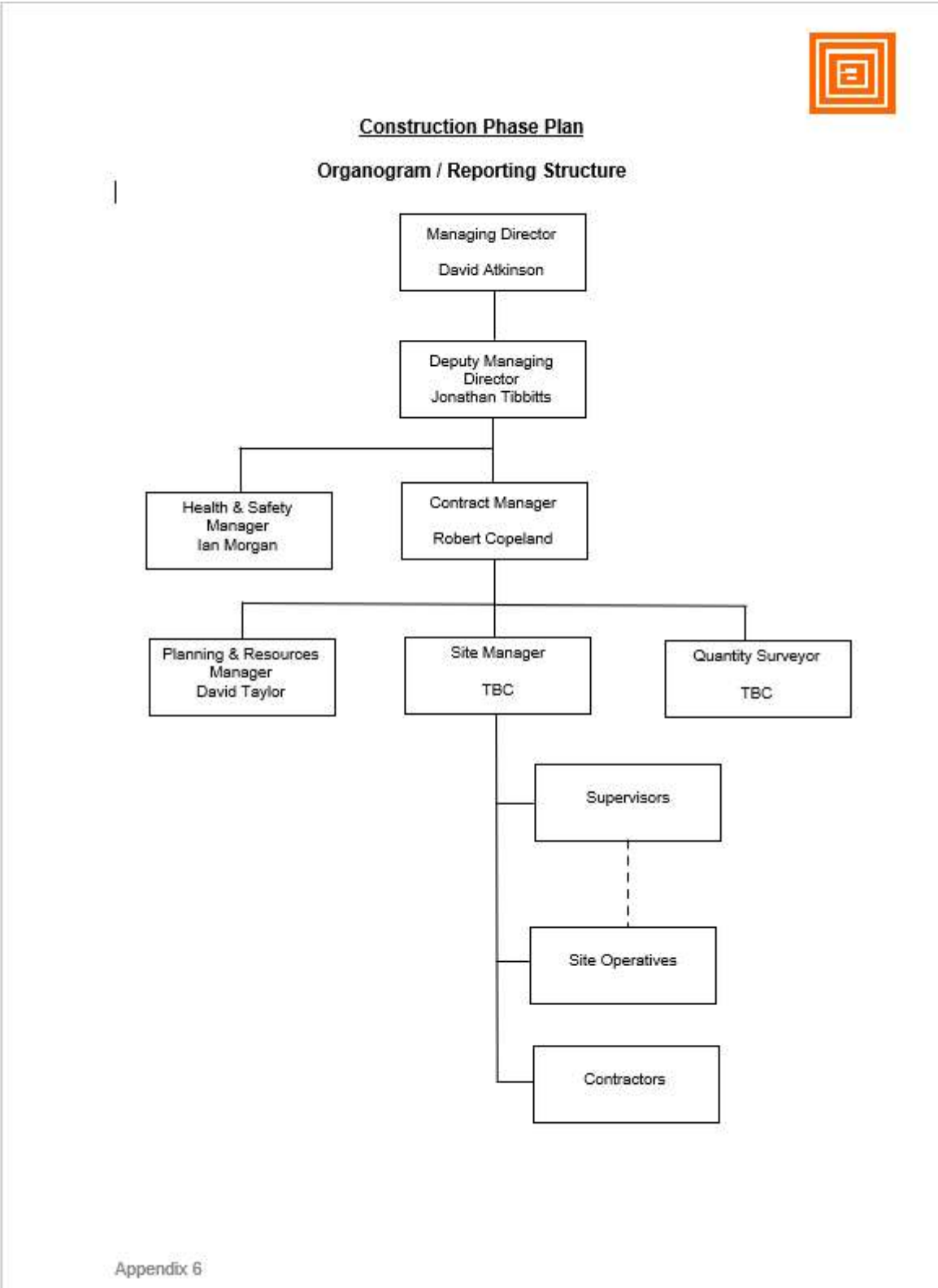
The purpose of this Construction Environmental Management Plan (CEMP) is to avoid, minimise or mitigate any construction effects on the environment and the surrounding community and:

- **Ensure compliance with all applicable legislation & statutory controls**- this includes planning conditions, Section agreements and landowner/client's environmental requirements.
- **Ensure Conformance with the THOMAS ARMSTRONG CONSTRUCTION LTD Environmental Policy Statement**– including all associated standards and procedures.
- **Deliver best practicable environmental performance** – this means preventing pollution, minimising adverse environmental impacts, and securing the potential benefits associated with higher standards of environmental performance.



2 ROLES AND RESPONSIBILITIES

2.1 THE MANAGEMENT TEAM





Descriptions of individual environmental management responsibilities are described as follows:

Directors

- Review and approve Construction Phase Plans.
- Monitor and control the management of the plans to ensure effective implementation.
- Set SHE objectives and review performance against them.
- Determine strategy for achieving SHE objectives and improvements.
- Ensure that works are carried in a safe manner and that adequate resources are provided to carry out all operations with due regard to SHE and welfare.
- Assist in any regulatory, external or internal audit as required.
- Report any SHE initiatives that they consider could lead to improvement.

Contracts Managers

- Ensure that workplaces under their control are adequate with respect to health, safety, welfare, and the environment.
- Ensure, so far as reasonably practicable that a suitable project specific Construction Phase Plan is prepared and implemented.
- Make appointments where necessary, e.g., Site Health & Safety Supervisor, Project Environmental Co-ordinator, Fire Wardens etc.
- Ensure, so far as reasonably practicable, employees and contractors are competent.
- Recommend training needs to suit individual and workplace requirements.
- Ensure that a mechanism is in place for effective consultation with employees and contractors.
- Hold regular meetings with the project team to review SHE issues.
- Review project management systems at regular intervals to ensure continued suitability and effectiveness.
- Report to the client on SHE matters as required.
- Provide regular reports on the effectiveness of the Construction Phase Plan to the Directors.
- Assist in any regulatory, external or internal audit as required.
- Report any SHE initiatives that they consider could lead to improvement.

Site Managers

- Organise and implement the provision and maintenance of a working environment and systems of work that are, as far as is reasonably practicable, safe and without risk to human health or the environment.
- Ensure that adequate monitoring and supervision arrangements are maintained and clearly defined areas of responsibility for contractors are established and implemented.
- Approval of method statements and risk assessments.
- Ensure SHE notice boards display up to date information.
- Assist in any regulatory, external or internal audit as required.
- Report any SHE initiatives that they consider could lead to improvement.
- Provide completed weekly environmental reports as required.
- Provide environmental toolbox talks to site personnel



Safety Director / Quality & Environmental Manager

- Ensure adequate flow of SHE information.
- Provide advice to the Directors to enable them to set appropriate performance objectives and improvements.
- Report on the levels of performance to enable Directors to review the effectiveness of current SHE arrangements.
- Advise managers on measures to ensure the effective operation of the Group Health, Safety and Environment Management System and the promotion of a SHE culture.
- Give advice and guidance, to any person who may require it, to promote the understanding and operation of SHE best practice.
- Carry out regular inspections and audits, provide reports, and give guidance and advice to managers, contractors, Health and Safety Supervisors and Environmental Co-ordinators.
- To assist in any regulatory, external or internal audit as required.
- Report any SHE initiatives that they consider could lead to improvement.

Supervisors

- Be familiar with the Construction Phase Plan and co-operate in its implementation.
- Identify significant safety, health and environmental risks connected with their work package / activity.
- Observe all environmental requirements and be respectful to the environment.
- Report any SHE initiatives that they consider could lead to improvement.
- Conduct regular SHE inspections.
- Report all potential / actual SHE risks to their supervisor as soon as possible.
- Assist in any regulatory, external or internal audit as required.
- Report any SHE initiatives that they consider could lead to improvement.

Contractors

- Be familiar with this plan & the Construction Phase Plan and co-operate in its implementation.
- Report any SHE initiatives that they consider could lead to improvement.
- Manage all SHE risks associated with their work activity / package in accordance with the site procedures.
- Report all potential / actual SHE risks to their Site Manager soon as possible.



3 CONSTRUCTION ACTIVITIES

3.1 OVERVIEW

The development comprises the construction of 14, 2 bedroomed dwellings with associated infrastructure works.

The following is to be read in conjunction with the site establishment principals plan drawing:

Site Layout Plan (section 5.0)

Refer to 4.2 for principals of site access and egress.

Refer to 4.3 for principals of site parking for site traffic

The site welfare compound will consist of a site office/meeting room, welfare facility/drying room, and WC unit. This will be located on the paved car park area beside plots 44-48, while keeping access to the designated parking bays for the residents. All other storage containers and materials will be in the secure main construction compound which will move as the development progresses.

The works are inclusive of:

New shared drives, paths and parking.

New private SW & FW drainage

New utility services

All construction activities shall be carried out in compliance with this Construction Environmental Plan a copy of which shall be kept within the site office along with the Construction Health and Safety plan for the lifetime of the development.

Typical construction activities include:

Site establishment

- Installation of site security fencing and barriers
- Arboricultural Works
- Site strip and removal of arising from site
- Installation of site accommodation, welfare and contractor onsite parking

Ground works

- Ground remediation and verification
- Reduce level excavation
- Piling & reinforcement works
- Casting of concrete foundations
- Suspended ground floor construction
- Gas protection systems
- Excavations for installation and connection of new utility services
- Excavations for new drainage
- Construction of new shared drives, paths and parking



Super structure works

- Masonry external & internal wall construction
- Scaffolding
- Roof coverings
- Mechanical & Electrical
- Plastering
- Flooring and tiling
- Decoration.

External works

- Fencing
- Landscaping

Typical construction traffic:

Cars, vans, trucks, Lorries, excavators, dumpers, piling rig, tele handlers, mobile cranes, road sweepers. The construction workforce peak is anticipated to be 20 personnel; however average numbers would be of the order of 10 to 15.

3.2 RISK ASSESSMENTS AND METHOD STATEMENTS

All known SHE hazards, and risks will be reviewed at each pre-order subcontractor meeting. Risk assessments, method statements and safe working practices are to be prepared in advance of commencement of the operation on site. All risk assessments are to include reference to known environmental issues.

Risk assessments and method statements will be recorded and retained on site. Where information is insufficient the contractor shall be contacted, and a joint review carried out to establish a suitable safe system of work.

3.3 ENVIRONMENTAL ASPECTS AND IMPACTS

The subcontractor must manage all risks associated with their work activity / package,

Contractors shall be advised through toolbox talks of this fact and to be vigilant when carrying out works.

In the event of any unexpected discoveries of protected or invasive species that could be impacted by the site activities, works must cease and the discovery must be reported to the Site Manager & Environmental Manager. Specialist advice from a suitably qualified ecologist may be required.

In the event that contamination is found at any time when carrying out the development that has not previously been identified it shall be reported immediately.

Site Management should:

- Ensure no further works are carried out within the location of the discovery until authorised to do so by the relevant authorities.
- Segregate the area of the site from other activities
- Ensure that work restrictions in the area are communicated to all relevant site staff and, if necessary that the area is highlighted with clear signage.



Site Management should report finds to the Safety Director & Environmental Manager.

In the event that archaeological finds are discovered the landowner (Home Group) and the local planning authority shall be notified immediately.

A competent archaeologist should be engaged to provide recommendations on significance and future working practices.

4.0 PROJECT ENVIRONMENTAL REQUIREMENTS

4.1 SITE WORKING HOURS

Site hours will be 8:00am – 18:00pm (Monday-Friday) & 8:00am – 13:00pm (Saturdays)

No works to be permitted on Sundays or any Bank Holidays.

4.2 SITE ACCESS AND EGRESS / SITE TRAFFIC AND PEDESTRIAN ROUTES

Access route to site cabins: An area is identified where offices and cabins will be located during the works.

Route for materials to be moved from the compound to the working area: The existing roads will be utilised through most stages of the development, so regular liaison with the residents will be required.

Deliveries and unloading areas: Deliveries will enter the site via the B5345 and by the early creation of the shared surface outside new plots 1-3 we can create a one way system for all construction traffic. An unloading area will be assigned as the project progresses in consultation with the existing residents. The traffic management / Delivery plan will be communicated to all Sub-Contractors and material suppliers at the time of order placement & Call-off.

Reversing required: Should vehicle reversing be required, then a banksman will be deployed for the operation.

Pedestrian routes that require alteration: Pedestrian routes will mainly follow the existing footpaths, additional pedestrian routes will be formed as deemed necessary.

Existing street lighting will be utilised, security lighting will be installed to the site compound and material storage areas as required.

Blind spots created and controls: No blind spots are identified.

Segregated pedestrian routes shall be created on site. Where pedestrians must cross traffic routes, the crossing point shall be chosen to ensure maximum visibility for both pedestrians and drivers and shall be clearly marked.

Reversing by any vehicle is to be reduced to the minimum possible on this site, where reversing has to be carried out then this will be under the control of a banksman.

Site-specific requirements for access and egress including delivery times shall be notified to all delivery drivers prior to their arrival on site as well as all site operatives during induction.



4.3 SITE PARKING

Contractor's parking will be initially provided on the right as you enter Jefferson Park, additional parking for TAC Staff and visitors is beside the site compound. (As the project progresses parking may need to be off-site).

There will be no parking elsewhere on site unless with express permission of the Site Manager. If vehicles are parked in construction areas, for unloading materials and the like the vehicle must be returned to the designated parking area as soon as possible.

All Contractors and visitors vehicles are to be parked on site in the designated area. The parking of construction vehicles and private vehicles on highways outside of the construction area is not permitted.

4.4 SPEED LIMIT

A speed limit of 5 mph will apply to this site; appropriate unambiguous signage will be displayed at the site entrance and at appropriate intervals on roads within the site.

4.5 CONSTRUCTION VEHICLES / VEHICLE MOVEMENTS

Only trained / qualified personnel are to drive and operate construction vehicles, evidence of accredited certificates of competency will be required at induction.

All vehicles are to be inspected and serviced at regular intervals. Onsite inspections will be reported to the Site Manager and recorded in the relevant book, held within the SHE system on site.

All plant to be fitted with roll over protection and warning beacons.

Cabbed vehicles to be fitted with 360o Mirrors & Audible Reversing Warning as a minimum.

When a vehicle is left unattended, for whatever reason, both during and outside normal working hours, it must be switched off and keys removed to prevent unauthorised use. When not in use machinery is to be returned to designated parking area(s).

Vehicle operators must be familiar with and use the designated on site traffic system. Changes to the traffic system must be clearly communicated, evidenced to all site personnel.

If site vehicles have to pass through occupied areas i.e., between phases of the project, they are to be accompanied by a trained banks man. If this involves being on a public road, the vehicle must be suitably equipped with lights etc.

Where specific hazards may produce additional risks to vehicular and pedestrian movement, they must be protected whenever possible by a physical barrier and high visibility plastic netting and warning signs. i.e. Excavations close to vehicle and pedestrian routes, scaffolding close to roadways which could cause restricted sight lines.

No materials carried around site are to be loaded in such a way as to cause restricted vision of the driver of the vehicle. All materials to be transported around site are to be suitably loaded and fully secure.



4.6 MATERIAL DELIVERY AND STORAGE

All HGV deliveries to the site must be carried out solely between the hours of 09:00 and 17:00 Monday – Friday. No HGV deliveries will be permitted Saturdays, Sundays, and Bank Holidays.

No idling or waiting onsite of delivery vehicles will be permitted to prevent noise nuisance.

Loading and unloading of plant and materials shall take place only within the boundaries of the construction site and within the agreed working hours.

Loading and storage areas will be created on site allowing sufficient area for the requirements of the project.

Lorry movements will be fully considered, ensuring safe reversing / manoeuvring, access, and egress.

When materials are delivered to the work area they shall be positioned so as not to obstruct vehicular or pedestrian routes or reduce visibility of site traffic and pedestrians. Materials shall be positioned outside of the root protection area of any existing trees.

4.7 HIGHWAY CLEANLINESS

The existing highways leading to the site shall be kept free from mud, dirt, debris and other deleterious matter.

Road sweeping shall be implemented as required to prevent build-up of mud / dust on site roads and to ensure it is not deposited on adjoining public roads.

4.8 SITE SECURITY

Prior to commencement on site all site boundaries shall be made secure. The site work phases will be enclosed with 2m high Heras fencing which shall be maintained in position and good repair throughout the development. Lockable gated access points will be installed at which both pedestrian and vehicular access to the site can be controlled.

As the project progresses, security will be monitored and if deemed necessary an appropriate security system shall be implemented.

4.9 WELFARE FACILITIES

This site will have the following welfare facilities. The principal point of access / egress to this area will be from within proximity of Phase 1. Phases 2 & 3 will be accesses by exiting footpaths.

Type of facility	Used by	Location	Frequency
Male & Female Toilets	All	Compound	Daily
Canteen – Preparation of food	All	Compound	Daily
Changing / drying room	All	Compound	Daily
Site Office / Meeting room	All	Compound	Daily



The following will be provided and maintained throughout the project:

- Segregated pedestrian / visitor entrance
- Visitors Book
- Heated, lit and ventilated accommodation for shelter and the taking of food and drink
- Facility for the changing, storing and/or drying of soiled or wet clothing
- Wholesome drinking water and suitable cups
- Means of boiling water
- Means of heating food (microwave cooker)
- Male and female lit toilets
- Toilet paper and paper towels or equipment for drying
- Skincare dispenser, (DEB board)

Smoking is prohibited in ALL offices / rooms and similar enclosed spaces and will only be permitted in the designated (appropriately signed) non enclosed area.

4.10 PROTECTIVE EQUIPMENT

Contractors and visitors wishing to access the site work environment must wear the following PPE: - Safety helmets, hi visibility clothing & safety footwear. Contractor's task specific risk assessment shall be carried out and additional protective equipment identified in that assessment must be worn.

4.11 STORAGE OF FUEL, OILS AND BUILDING CHEMICALS

Containers must be stored within a Spill Nappy (or similar), bund or any other suitable secondary containment system (SCS). All containers shall be located outside of/ away from the root protection areas of existing trees and in a safe place to minimise the risk of damage and locked-off when not in use.

For oil tanks, intermediate bulk containers and mobile bowsers the SCS must be able to hold:

- Where one container is being stored - a minimum of 110% of the total volume.
- Where more than one container is being stored - a minimum of 110% of the largest container's storage volume, or at least 25% of their total volume (whichever is greater).
- For drum storage, the interceptor tray must be able to hold at least 25% of the total storage capacity of the drums. Bunded areas must be made impermeable to water and oil.



4.12 WASTE MANAGEMENT

The appointed site manager will manage waste generated by the development which shall be monitored on the SWMP.



All contractors will ensure any waste is stored away from drains, wells & controlled water course. Containers shall be in good condition and, where required, covered to prevent dust and litter being blown out. If there is any likelihood of stored waste contaminating the surrounding environs, all necessary steps will be taken to ensure no contamination occurs. This may include the use of containment bunds with rain shelters and the use of sealed containers, i.e. clip-top drums and fluorescent tube coffins.

Before waste is treated and / or removed from the development all subcontractors / waste contractors must provide the project team with legible copies of the following documentation:

- Environmental permits (mobile plant licences) and exemption certificates authorising on-site crushing and screening activities.
- Waste Carriers Registration Certificates.
- Environmental Permits, (Waste Management Licences and PPC Permits);
- Notification certificate of exemption from environmental permitting.

The project team and, where applicable, subcontractors will ensure that the removal of all inert / non-hazardous waste is recorded on Waste Transfer Notes. These documents must be kept for a minimum of two years. These documents will be stored on site and made available on request.

The project team and, where applicable, subcontractors will ensure the removal of all hazardous waste is recorded on Hazardous Waste Consignment Notes. These documents must be kept for a minimum of three years. These documents will be stored on site and made available on request.

Legible copies of all Waste Transfer and Consignments Notes, recording the removal of waste from the development must be issued to Thomas Armstrong Construction Ltd. This includes waste generated on site by subcontractors). When removing hazardous waste from the development the following Environment Agency Premises Code must be used on all Hazardous Waste Consignment Notes: (N/A in this instance).

The burning of materials or waste on site shall not be permitted at any time.



4.13 PARTICULATE MATTER (DUST) AND NOISE

With regard to nuisance, the methodology in which work activities are undertaken must apply Best Practicable Means (BPM) in order to minimise negative impact on local, sensitive receptors (existing domestic dwellings). However, if measures to reduce excessive dust and noise are unsuccessful, work must stop, and an alternative method devised before work can resume.

The following measures shall be used where necessary to prevent noise and dust:

- Use sheeted Lorries and sealed / covered skips.
- Use dust extraction equipment when drilling and cutting.
- Damp down haulage roads and stockpiled materials in dry or windy weather.
- Sweep access roads regularly.
- Grass over topsoil which is being stockpiled for landscaping or off-site re-use.
- Locate plant and equipment away from sensitive receptors.
- Use screens, including earth bunds to act as acoustic barriers.
- Isolate plant and equipment when not in use.
- Fit white noise systems on vehicles to reduce noise nuisance when reversing.
- Keep engine compartment doors closed.
- Limit vehicle movements on-site, i.e., use of one-way system.

4.14 VISUAL AMENITY

Measures to minimise and avoid creating visual impacts during construction.

- Unnecessary vegetation removal will be avoided.
- Materials and machinery will be stored tidily during the works in order to minimise impacts on views.
- lighting of compounds and working areas will be restricted to agreed working hours and those which are necessary for security.
- Public roads providing access to the construction site will be maintained free of dust and mud.
- keep clear and clean all working areas and accesses as work proceeds and when no longer required for the works.
- on completion of the project, remove all structures, equipment, surplus soil and materials, waste, notice boards and temporary fences used during the construction with minimum damage to the surrounding area.

4.15 PREVIOUSLY UNIDENTIFIED MATTERS

If one or more of the following is discovered, work in that location must stop immediately and the Contract & Environmental Managers:

- Contaminated soils.
- Archaeological remains or features.
- Suspicious objects.
- Underground storage tanks.
- Invasive species, i.e., Japanese Knotweed.
- Protected species, i.e., badgers, bats, amphibians, reptiles, and plant life.



4.16 EMERGENCY AND INCIDENT PREPAREDNESS

Although unlikely, that environmental incidents could occur. Such incidents could include:

- Hydrocarbon spillages into surface or groundwater.
- Silty contaminated runoff into surface or groundwater.
- Fires; and / or
- Extreme dust events.

In order to minimise the risk of a pollution incident, subcontractors must ensure all operatives understand the environmental risks associated with their work activity and what control measures are in place to eliminate or reduce negative environmental impact.

Should an environmental incident occur, follow the Thomas Armstrong Accident / Incident Management & Investigation Process and Management of Accidents and Incidents Procedure contained within the CPP.

4.17 COMMUNICATION WITH THE PUBLIC

A pre commencement letter drop shall be carried out notifying all direct neighbouring properties of the site start date.

Suitable out-of-hours contact arrangements shall be in place in the event that an incident occurs outside of normal working hours (e.g., an alarm sounds, or a break-in is reported).

Contact details shall be displayed outside the site. Contacts shall be reviewed and updated in relation to annual leave or other absence of site staff.

The Project Team will communicate proactively with any local residents / businesses and other members of the public that may be affected by construction activities.

Where our activities could cause nuisance to the local community, we shall contact local residents and any affected businesses etc. prior to the activity taking place.

Thomas Armstrong Construction shall then ensure that these parties are kept up to date with the progress of the works and the measures that will be put in place to minimise any potential nuisance that may arise as a result of these.

Thomas Armstrong will provide any affected parties with contact details of a senior member of the management team, should they have any issues or complaints should they wish to discuss.

Our staff are encouraged to build and maintain a positive relationship with the local community to avoid the need for nuisance related complaints.

All subcontractors are expected to minimise the impact of their works on the local community. Thomas Armstrong will identify potential nuisance issues at the pre-start meeting and ensure that they are included in site inductions, but these should also be covered in the subcontractor's conditions.

All complaints received will be investigated and a response (even if pending further investigation) is to be given to the complainant as soon as reasonably practicable.

Incidents relating to nuisance (e.g. complaints relating to noise, dust, vibration, mud on roads etc. made by the public, clients or Environmental Health Officers) shall be reported internally to the Safety Director & Environmental Manager in the first instance.



4.19 MONITORING AND CONTROL

It shall be the responsibility of the Site and visiting Managers to monitor and control the Construction Environmental Management plan and ensure its implementation.

Updating of both this written Plan, together with the graphical site Traffic Management Plan displayed in the site office, will be the responsibility of the Site Manger.

Contractors must ensure that they are familiar with and observe this plan.

Communication methods will include inductions, toolbox talks, briefings, Letters/memos, and review meetings.

The relevance of CEMP elements will be routinely reviewed by the Site and visiting Managers. This review will focus on the need for the type and level of monitoring and the appropriateness of management measures, monitoring methods and reporting systems.

5.0 APPENDICES

1. TAC Environmental Policy
2. Site Layout Plan



Appendix 1

Thomas Armstrong (Construction) Ltd



Environmental Policy Statement

Thomas Armstrong (Construction) Ltd. is a general construction company operating on a regional basis throughout the North of England and Southern Scotland. The company carries out all types of construction contracts, including civil engineering infrastructure works, in various market sectors for both private and public sector clients. Thomas Armstrong (Construction) Ltd. are committed to the protection of the environment, including prevention of pollution and to minimising the environmental impacts of its business activities and operations. Thomas Armstrong (Construction) Ltd. will deliver this commitment by the setting of environmental targets, regular review, prevention of pollution, and compliance with legislation and other requirements including appropriate best practice. We will therefore:

- Comply with and whenever possible exceed all applicable Environmental Legislation and regulatory and other requirements. The Company will regularly evaluate its compliance with the relevant legislation and will utilise Government Guidance and Industry Codes of Best Practice, to help achieve this.
- Continually improve our Business Management System processes and documents by regular measurement, review and audit and the implementation of improved measures to prevent pollution and minimise environmental impact.
- The use and practice of a Sustainable Procurement Policy, ensuring packaging is minimised, sustainable products are sourced, and local suppliers preferred. To continue to develop trading relationships with suppliers committed to similar environmental objectives.
- Use Energy and water efficiently during the construction process and promote conservation of natural resources.
- Minimise waste, by recycling and reusing materials where possible and being proactive in the reduction of waste.
- Ensure that all employees are aware of environmental issues, the environmental impacts of our business operations and activities and what they are expected to contribute to minimise our environmental impact. This is done by a combination of training, communication and the Company's working practices.
- The setting of annual environmental objectives and targets to measure improvements in environmental performance.
- Ensuring that our Subcontractor and Suppliers are aware of our Policy and encourage them to apply similar environmental standards to their own works.

Thomas Armstrong (Construction) Ltd. shall participate in open consultation with interested stakeholders, local communities and ensure effective communication of this Environmental Policy to all those working for and on behalf of the Company. This policy is communicated to all employees and the latest version is available to any interested parties via our website: www.thomasarmstrong.co.uk.

Signed: 
D Atkinson, Managing Director

Date: 27th October 2017

Reviewed: 29th October 2021



Appendix 2

Jefferson Park Initial Site Set-up

