



BARRATT
DEVELOPMENTS PLC

BDW Trading Limited

**Construction
Environmental Plan**

Barratt Manchester

Chipping Lane, Longridge.

September 2023

Details of the Development

Development	Chipping Lane, Longridge
Divisional Office	Barratt Homes Manchester
Client	Rhys Nicholson – Managing Director
Principal Contractor	John McNulty – Construction Director
Principal Designer	Kevin Furey – Technical Director
Lead Designer	Rick Browne – Engineering Sean Hodson – Architecture Jon Partington – Design and Planning
Description of Development	A development of 317 new homes

Arrangements for Managing the Development

Organisation

It is the responsibility of the Contracts/Project Director/Manager on this development to ensure the Occupational Safety, Health & Environmental Management System (OSHEMS) is observed by all employees and contractors.

The Contracts/Project Director/Manager may delegate aspects of Management to other members of the site team as identified in this Plan. However, the Contracts/Project Director/Manager retains responsibility for ensuring the roles are carried out.

Review of the Plan

The plan will be reviewed throughout the duration of the development and a formal review undertaken every **3 months** by the Contracts/Project Director/Manager or if arrangements on the development alter. The review will examine the detailed control measures required for each element of the development and evaluate current performance. Safety, Health & Environmental (SHE) documentation is continually updated by virtue of the site SHE filing system.

Safety, Health and Environmental Inductions

All persons working on the project will be provided with a SHE Induction identifying site rules and general requirements prior to commencing work. The Induction will be site specific and a record maintained on site. The site-specific rules and relevant emergency procedures will be communicated and included in the induction. Training provided to operatives will be evaluated by Site Management to ensure they have achieved the required competency to carry out the tasks.

Inductions will include all aspects of SHE control measures on site including the requirements to manage and segregate waste in accordance with this plan. Induction will also ensure that all site operatives are aware of the procedures minimising water and air pollution.

Selection and Appointment of Subcontractors

All contractors are required to complete an assessment of competency via one of the Site Safety in Procurement Schemes (SSIP). Their performance on the project will be continually assessed as the development progresses.

The Contracts/Projects Director/Manager will advise each contractor of the safe system of work information required for each work element. The contractor will be required to provide documentation acceptable to the Site Management team before they start work on site.

A copy of the Group's Safety, Health & Environmental Code for Subcontractors will be issued to all sub-contractors. The code provides detail on the minimum standards to be applied on our developments.

Communication and Co-ordination

The OSHEMS is the fundamental method for ensuring consistency on site. This management system is complimented by issuing regular Safety, Health & Environmental Alerts, which identify any changes in policy or management arrangements. Changes in policy or arrangements are reviewed at quarterly Group SHE Committee Meetings and details of any changes are issued via the Company's Group memo system. The Divisional SHE Manager will attend Bi-Monthly SHE meetings where these policy and arrangement changes can be discussed with Senior Divisional Managers. Discussions will also be held with the Site Management Team during regular visits to developments by the SHE Manager.

Subcontractor progress meetings will be held as required with the nominated person responsible for each contractor on site. The intention of the meeting is to communicate the SHE requirements for management on the project and to discuss forthcoming work and required control measures.

A poster will be displayed in the site offices identifying whom to contact in order to consult on SHE matters. The group has also introduced a 'Safecall' system for any person to provide information on SHE matters which in their view are not being dealt with by our management. The telephone number of the SHE Manager will, in addition, be displayed in the site office.

Specific details for means of consultation with the workforce are detailed in this plan.

Safety, Health & Environmental Briefings (SHEBs)

SHEBs or tool-box talks will be provided to site operatives and should reflect the actual work being undertaken on site. The briefings can be undertaken by contractor supervisors if they are deemed competent. Records will be maintained of the briefings.

Safety Alerts/Incident Announcements

These are issued on the basis of learning from near misses or incidents or if a specific issue SHE issue requires disseminating through the Company. These will be briefed to the relevant personnel that they affect and be recorded. They will also be displayed on the SHE notice boards.

Monitoring of SHE Standards

Formal monitoring of the development will be undertaken in the following manner:

A review of site SHE performance will be undertaken by the Site Manager daily and recorded in the site diary. The site management team will also carry out formal recorded inspection of the project every week. The Contracts/Project Director/Manager will formally review the project at least once per month.

All contractors will be required to have their own monitoring arrangements for their work activities and provide reports to Site Management.

An independent SHE review of the development will be undertaken at least monthly by one of the SHE Managers. Copies of the review report are forwarded to the Construction Director and site performance reported to the Divisional Board. The Contracts/Project Director/Manager is responsible for ensuring that all items identified by the SHE Manager are actioned by the Site Manager.

Statutory Notices

The following notices will be completed (where required) and displayed in the Site Office and Welfare Facilities.

- Health & Safety Law poster 'What you should know' (Site office only)
- Emergency Procedures
- Fire Action Notice
- F10 'Notification of the project' to the Enforcing Authority.

Emergency Procedures

Emergency procedures in the event of fire, accident, contact with live services, Dangerous Occurrence or a significant environmental incident will be displayed throughout the site facilities. **Any other emergency requirements for the project are detailed in this plan.** The site location plan, which is included in this Plan, identifies the site muster/assembly points and evacuation routes. Evacuation procedures will be communicated to site personnel at the Site Induction.

Accidents and Dangerous Occurrences

Contractors will be required to report all accidents, incidents and dangerous occurrences to site management. All accidents will be reported to the site office and recorded in the site accident book. All accidents which result in more than 24hrs being lost by an operative, a major injury, a member of the public being injured or a dangerous occurrence must be reported immediately to the SHE Manager and Construction Director. The Construction Director is responsible for ensuring that appropriate notification is given to the relevant enforcing authority where required.

Health & Safety File

Information required for the Health & Safety file will be retained within our SHE site filing system and forwarded to the Principal Designer prior to units being handed over on the development.

Waste Management

The strategy for waste reduction is primarily to adopt a waste minimisation strategy which will reduce the amount of raw material used on site and therefore the amount of wasted resources discarded.

Site Management Safety, Health and Environmental Duties

Duty	Frequency	Person Responsible
Excavation Inspection	Before any person carries out work at the start of each shift, following any event likely to affect the strength or stability and following any accidental fall of earth etc.	Site Manager
Fire Precautions	Checked regularly and formal records maintained weekly	Site Manager
Safety, Health & Environmental Inductions	First visit to site and following any significant changes to site rules of plans.	Site Manager
Issue of Permits to Dig/Drive Piles/Excavate	As necessary	Site Manager
Evaluation of Method Statements/Risk Assessments	Prior to any contractor commencing work on site	Site Manager

Site rules specific to the Development

Detailed below are the site rules for this project, which will be included in the Safety, Health & Environmental Induction.

Item	Site Rule
1	All operatives must receive induction before being allowed to commence work on site.
2	All inducted persons must sign in and out when arriving and leaving site.
3	All visitors to site must sign in and out of the site and be under the control of site management at all times.
4	All persons on site must follow the access routes on site and keep clear of hazardous areas such as designated traffic routes, material compounds or where overhead work is being carried out.
5	Fires are prohibited on site. All personnel must be aware of the escape routes from the building and comply with instructions given from the fire plan during induction.
	No smoking in welfare facilities, site offices, plots under construction, completed properties or near flammable gases or liquids.
6	All accidents, incidents, dangerous occurrences and near misses must be reported to site management immediately no matter how small and recorded in the appropriate book.
7	Do not encourage or take part in horseplay of any kind.
8	Keep the site tidy, dispose of litter properly, use designated waste skips provided and be considerate to people and their property. Don't leave your mess for others to clean up or fall over.
9	Any minor spillage must be cleaned up immediately and notified to site management.
10	Any major spillage must be contained and prevented from entering drains/sewers/water courses etc. and must be notified to the site management immediately. Spill kits are located in the compound.
11	All sub-contractors must instruct their operatives of the relevant safe method of work, risk assessments, COSHH assessments, and manual handling assessments as required. Acknowledgement of this information for each operative must be recorded and issued to site

Specific Environmental Management Controls (including Environmental objectives)

i) Environmental Objectives for the site

Objectives	Current levels (where applicable)	Site Specific Control Measures
Maintain compliance with environmental standard ISO 14001	Maintain management system on site	<p>SHE inspections completed at least every four weeks by visiting divisional SHE Manager.</p> <p>Daily inspections by Site Manager, SHE form 16</p> <p>A visiting Contracts Manager shall be completing regular inspections and recording monthly SHE tours (SHE form 29) with the Site Management Team.</p> <p>Meetings shall be held with contractors and minutes taken of meetings for review.</p>
Reduce water usage on site	27.3m ³ per unit legally completed	<p>Utility bills are to be monitored monthly. Meter readings to be undertaken by site manager results to be displayed on site</p> <p>Turn off water taps, welfare to be fitted with push button type taps to reduce water usage.</p>
Reduce energy used in the construction process including site offices	1,792 kg co ₂ per unit legally completed	Fit door closers to reduce heating loss. PIR's to be fitted to site cabins, lights to reduce energy usage. Materials to be procured through group deals where possible.
Reduce total tonnes of waste generated per plot during construction	37.3 m ³ per unit legally completed	<p>Pre-cut materials shall be procured where possible. Re-use materials such as brick/ blocks in haul roads.</p> <p>Suppliers to recycle packaging materials. Site waste compound to be provided to enable waste stream to be used for waste segregation.</p> <p>Review of monthly waste reports to ensure no general waste skips, quarterly review of site waste management plan required.</p>

Objectives	Current levels (where applicable)	Site Specific Control Measures
Increase waste segregated on site for recycling	58%	<p>Use of recycling facilities where possible as per Group Waste Management procedure.</p> <p>Colour coded skips and segregation signs.</p> <p>Provide separate hazardous waste skip or bin including signs.</p> <p>Monitor usage via Reconomy reports and display waste usage monitor, update quarterly</p>
Minimise the impact of Noise and Dust generation.	N/A	<p>Weekly- Monitor noise and dust during construction works. To be carried out by the Site Manager (SHE form 16)</p> <p>Use of dust sheets, damping down in dry weather, covers to skips and use of road sweeper when and as required.</p>
Protect areas/habitats of high biodiversity value	Protection of existing trees and watercourses	<p>Prior to house build - Use a native planting scheme for landscaping. Development Managers responsibility.</p> <p>Daily - Monitor site construction traffic, and limit any off-site parking. Site Managers responsibility.</p> <p>Ensure retained trees and watercourses are fully fenced at all times until adjacent plots are handed over</p>

(ii) Protection of Immediate Environment.

The site has no contaminants, but all arising's should be stockpiled and tested prior to movement. Topsoil on site is to be banded in designated areas to be used for garden areas.

Daily site considerations include:

1. All parking to be within the site car park only – No parking allowed on any roads, footpaths or drives.
2. The roads will be scraped as required.
3. The roads will be monitored by the Site Manager and swept when necessary.
4. Ensure all diesel/fuel is delivered to site and pumped directly into our plant as and when required.
5. Gullies are protected to prevent contamination.
6. Daily inspection of the site boundary to be undertaken and recorded on the SHE form 16.

(iii) Arrangements for the Storage and Dispensing of Fuel

1. Barratt Homes will have no diesel on site, it will be delivered as and when required.
2. Sub-contractors Diesel will delivered and stored as per their Method statements and Risk Assessments.
3. A spill kit must be provided and located with the diesel tank.
4. A cage will be provided for the storage of bottled LPG gas if required.
5. This should all be in accordance with BGS 28.

Surface Water Management Plan

To ensure that any surface water leaving a BDW Trading Limited development is sufficiently treated as to be acceptable for disposal into controlled waters. This will be achieved by:-

- identifying potential entry points of surface water onto or within the site,
- the implementation of specific measures for capture (lagoons) and final treatment within our boundaries, prior to being discharged off site.
- Implementation of Emergency Measures/Arrangements

Additionally, the plan will identify the requirements to ensure that any implemented measures are adequate and effective, through monitoring, sample collection or other means.

Records (logs, photographs etc.) will be a kept.

The plan will identify the responsible parties (named) for each item and the frequency of each event.

The plan will be reviewed at appropriate frequencies dependent on risk and impact.

Monitoring Arrangements			
What	How	When	By Whom
Monitoring of Surface Water Management Arrangements	Visual inspection of all Surface Water Management Arrangements and implemented control measures (Silt fences, Gulley Bags, Manhole bags etc.) Daily Log to be kept.	Visual daily recorded and submitted to Site Manager weekly or after any remedial action	Ground worker Competent Person(s)
Management of Surface Water Management Arrangements	Weekly review by Site Management recorded on SHE Form 29	Weekly review	Site Manager
Review of Surface Water Management Arrangements	Review by Contracts/Projects Manager recorded on SHE Form 18	Monthly review	Contracts/Projects Manager
Testing/Analysis of samples	Selected Biological solid/settlement test	As required or as plan outlines	Independent analytical company

Review Frequencies			
	How	When	By Whom
Surface Water Management Plan	A set procedure - minimum every 3 months and following/during severe weather conditions.	Every 3 months and following adverse weather	Contracts Manager & Groundworker
Environmental objective	Silt/slurry collection, also visual assessments, flow rate assessments	As above process and following adverse weather	Contracts Manager & Groundworker
Actions	System amendment if potential failures identified	Immediate	Contracts Manager & Groundworker

Details of Protection Measures to Boundaries and Features of Ecological Value

Protection measures for open sections of watercourse

- All watercourses are to remain open during the development build program. Throughout the development the watercourse will be protected by temporary demarcation fencing. This fencing will be 1.8m high Heras-type. This will protect the watercourse from debris blowing from the site and incursion from operatives or plant who may bring mud and debris with them.
- Sand bags will be placed between construction zones and the watercourse to reduce the risk of silt runoff. However, roads are to be tarmacked early in the development program and are to be regularly scrapped and swept.
- All road gully pots are to be trapped and have temporary grilles fitted to stop debris and silt entering the surface water system.
- The watercourse will be inspected by the site manager as part of his daily check on site boundary fencing. Should any debris be discovered, it will be removed. Should any silt be discovered groundworks activities will cease until the source of the silt is discovered and remedial action taken.
- All contractors and site visitors will be made aware of the function of the protective fencing as part of the site induction.

Protection measures for mature trees

- Prior to any development taking place on the site, tree protection fencing is to be erected around any tree to be retained. This will be in accordance with the Arboricultural Method Statement prepared by Tyler Grange.