Greenwich Soil Treatment Facility

784-B066441

Operating Techniques

Environmental Permit Application

Hanson Quarry Products Europe Ltd

May 2025

Document prepared on behalf of Tetra Tech Limited. Registered in England number: 01959704

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1.0 Introduction

1.1 Report Context

1.1.1 This section of the Environmental Permit application corresponds to Section 3 of Part B4 of the Environmental Permit application forms and specifically details the operating and management procedures for the proposed soil washing activity that will be in place at the site.

1.1.2 This Environmental Permit application has been prepared by Tetra Tech on behalf of the Operator, Hanson Quarry Products Europe Ltd (Hanson).

1.1.3 This document relates to Hanson's Greenwich Soil Treatment Facility located at Tunnel Avenue, London, SE10 0QE at approximate National Grid Reference (NGR) TQ 38942 79499.

1.1.4 Hanson seek to obtain a Bespoke Environmental Permit for a Soil Washing Facility and a Non-Hazardous Waste Treatment Facility that will process a maximum of 800,000 tonnes per annum of non-hazardous soils. The activities on site will comprise of both dry recycling and soil washing to produce quality aggregates, soils and clay products for construction projects.

1.1.5 This document is an integrated document which describes both the operating techniques that will be implemented at the site to ensure compliance with the conditions of the Environmental Permit and also demonstrate that appropriate measures will be employed.

1.1.6 This report has been prepared to satisfy the requirements of the following: -

- Environment Agency – Develop a management system: environmental permits (August 2022).
- Environment Agency – Control and monitor emissions for your environmental permit (May 2021); and,
- Environment Agency – Non-hazardous and inert waste: appropriate measures for permitted facilities (August 2023).

2.0 Site Description

2.1 Overview of Site Activities

2.1.1 All site activities will be undertaken in accordance with EA Guidance 'Non-hazardous and inert waste: appropriate measures for permitted facilities' (Appropriate Measures).

2.1.2 It is the intention of Hanson to obtain an Environmental Permit for a soil washing facility and a non-hazardous waste treatment activity at the site.

2.1.3 The soil treatment activities will be to create recycled aggregates, soils and clays which are suitable for use in construction projects.

2.1.4 The proposal entails the operation of a soil washing facility dry recycling facility that will process a maximum of 800,000 tonnes per annum of non-hazardous soils.

2.1.5 It is considered that the proposed activity will fall under the following Recovery and Disposal codes (R and D codes) shown in Table 1, provided for in Annex II to Directive 2008/98/EC of the European Parliament and The Council of 19th November 2008 Waste.

Table 1: Proposed R&D Codes

R/D Code	Description of Activity
R3	Recycling/ reclamation of organic substances which are not used as solvents
R5	Recycling/reclamation of other inorganic compounds
R13	Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).

2.2 Operating Hours

2.2.1 The operating hours of the Facility are as follows:

- 24 hours Monday - Sunday

2.3 Waste Types

2.3.1 A complete list of waste codes for the facility is provided in Appendix A.

2.4 Waste Quantities

2.4.1 The proposed soil washing facility will have an annual throughput of 800,000 tonnes.

2.4.2 The maximum storage capacity of untreated material will be 400,000 tonnes.

2.4.3 The maximum storage capacity of treated material will be 400,000 tonnes.

2.4.4 There will be no hazardous waste accepted on site.

2.5 Site Layout

2.5.1 A site layout plan is provided on Drawing Number GRE/B066441/LAY/01.

2.5.2 There will be a designated waste unloading area, treatment area, and storage areas for loose stockpiles. All soil washing activities will be undertaken on the impermeable surface with sealed drainage. Also, there is a weighbridge within the permitted area.

2.6 Plant and equipment

2.6.1 The following items and machinery may be available for use on site for the basic dry screening and the soil washing plant:

- Front end loading vehicle (FEL);
- 360 grab excavator;
- Mobile screener;
- Mobile crusher;
- Tractor bowser;
- Telehandler;
- Hopper;
- Conveyor;
- Over band magnet;
- Log washer;
- Gravel sizing screen; and,
- Hydrocyclone / filter press.

2.6.2 All plant and equipment will be maintained in accordance with the manufacturer's guidance. A planned preventative maintenance programme for all machinery on site will be implemented to ensure that equipment is repaired prior to failure. Staff will only be permitted to operate machinery

and undertake activities for which they have received appropriate training. This remains in accordance with Section 2.1 of the Appropriate Measures.

2.6.4 Process Flow Diagrams of the processing equipment have been provided within Appendix C to meet Section 5 of the Appropriate Measures.

2.7 Site Surfacing/Infrastructure

2.7.1 The site surface comprises of impermeable concrete throughout. All areas of the impermeable surface, will be visually inspected at least weekly to ensure their continuing integrity and fitness for purpose. The inspection and any necessary maintenance will be recorded. In the event that any damage breaches the integrity of the engineered containment so that it no longer meets the required standards, necessary remedial work will be completed as soon as practicable.

2.7.2 Site drainage will be provided in all areas of impermeable surface. The areas of impermeable surface on site comprise of the site entrance, staff parking, and the soil washing treatment area. The site drainage system will be subject to weekly visual inspection to ensure effective operation and integrity of the system. Maintenance will be undertaken to ensure the effective operation and defects will be rectified as soon as possible.

2.7.3 Allocated parking for staff and visitors is provided as shown indicatively on Drawing Number GRE/B066441/LAY/01.

2.7.4 Allocated storage of fuels and lubricants associated with mobile plant on site is provided.

2.7.5 The measures implemented above meet the requirements of Section 6 of the Appropriate Measures.

3.0 Waste Acceptance Procedures

3.1 Pre-acceptance

3.1.1 All waste pre-acceptance procedures will be undertaken in accordance with Section 3.1 of the Appropriate Measures guidance.

3.1.2 Prior to accepting waste from new customers, Hanson will obtain and record information on the types of wastes to be accepted, the process producing the waste, predicted quantities, the form of the waste and any potential hazards associated with the wastes.

3.1.3 The information provided is reviewed against the site permit and the site-specific requirements relating to incoming waste and discussed with the suitably trained nominated person.

3.1.4 If the waste is confirmed to be acceptable at the site, a contractual arrangement is made with the waste supplier. The contract details the criteria for acceptance/rejection of loads delivered to the site for processing.

3.1.5 Regular feedback on the quality of waste delivered to the site is provided verbally to each waste supplier.

3.1.6 If the waste is deemed unacceptable, the customer will be notified, and the waste will be immediately directed to the quarantine area.

3.1.7 The facility will require the following information in written or electronical form prior to acceptance in accordance with Section 3.1 of Appropriate Measures: -

- Details of the waste producer including their organisation name, address and contact details;
- A description of the waste;
- The waste classification code (also referred to as a List of Waste (LoW) or European Waste Classification code;
- The source of the waste (the producer's business and the specific process that has created the waste);
- Information on the nature and variability of the waste production process;
- Information about the history of the producer site if it may be relevant to the classification of the waste (for example soils and other construction and demolition arisings from a site contaminated by previous industrial uses);
- The waste's physical form;
- The waste's composition (based on representative samples if necessary);
- A description of the waste's odour and whether it is likely to be odorous; and,

- An estimate of the quantity you expect to receive in each load and in a year.

3.1.8 Following the assessment and classification of waste, the site operators will technically assess the suitability of waste with regard to the treatment and storage facilities on site to ensure the conditions of the permit are met. Should the waste comply, the site is permitted to accept the waste.

3.1.9 All records relating to the pre-acceptance will be kept for cross-reference a verification at the waste acceptance stage. These records will be kept for a minimum of 3 years.

3.1.10 Hanson will reassess the information required at pre-acceptance on an annual basis or if the following apply: -

- Waste changes;
- Process giving rise to the waste changes; and,
- Waste received does not to conform to the pre-acceptance information.

3.1.11 Following the approval of accepting waste from a customer, the suitably trained nominated person relevant to their position will ensure that visual, physical, and odour-based checks are undertaken upon the receipt of waste. The criteria for non-conformance and rejection of waste will also be recorded, and the member of staff checking the waste can decide on additional parameters of how to check the waste.

3.1.12 In addition to waste received by road, there is the potential for Hanson to accept waste and export product via ship arriving to the east of the site on the River Thames.

3.2 Acceptance Procedures

3.2.1 All waste acceptance procedures will be undertaken in accordance with Section 3.2 of the Appropriate Measures.

3.2.2 The suitably trained nominated person will ensure that all characteristics of the waste received matches the information provided during waste pre-acceptance. If the waste does not conform to the pre-acceptance information, site management will confirm if the permit allows it and if it can be handled appropriately. Otherwise, the waste will be rejected.

3.2.3 The waste acceptance procedures will follow a risk-based approach in accordance with Section 3.2 of Appropriate Measures, considering: -

- The source, nature, and age of the waste;
- Potential risks to process safety, occupational safety and the environment (e.g. from odour and other emissions);
- The potential for self-heating; and,
- Knowledge of the previous waste holder(s).

3.2.4 The suitably trained nominated person will check that the relevant storage areas and treatment processes have the physical capacity to handle the waste. The site will not accept the waste if the capacity is not available, or if it would breach the permit to do so.

3.2.5 The waste will be visually checked and verified against pre-acceptance information prior to acceptance onto site. The extent of the visual check is based on the waste type and how it is packaged. In addition to waste received by road, there is the potential for Hanson to accept waste and export product via ship arriving to the west of the site on the River Thames.

3.2.6 Clear criteria will be used to identify non-conforming wastes and wastes to be rejected. In the event that these wastes arrive on site, the written procedures for recording, reporting and tracking non-confirming and rejected wastes will be utilised which include: -

- Using quarantine storage;
- Notifying the relevant customer or waste producer; and,
- Recording a summary of your justification for accepting non-confirming waste in your electronic (or equivalent) system.

3.2.7 The member of staff undertaking waste acceptance checks will be trained to effectively identify and manage any non-conformances in the loads received in order to comply with the Duty of Care and permit conditions.

3.2.8 Each load of waste will be weighed on arrival using the weighbridge located to southwest area of the permit boundary to confirm quantities against the accompanying paperwork which will be recorded in Hanson's comprehensive recording system. The nominated person relevant to their position shall then notify the driver to proceed to the relevant area on site.

3.2.9 Materials will be tipped directly into the stockpiles or deposited on the made ground surface in front of the stockpiles, where mobile plant will be operated to move the material into the stockpiles.

3.3 Waste Rejection

3.3.1 All waste rejection procedures will be undertaken in accordance with Section 3.2 and 3.3 of the Appropriate Measures.

3.3.2 Any non-conforming loads will either be rejected from the site and redirected to an appropriate permitted facility at the responsibility of the third-party sender or placed in quarantine prior to removal from site. A record will be made in the Site Diary and comprehensive recording system.

3.3.3 Any non-conforming waste identified following tipping will either be reloaded into the delivering vehicle and rejected from the site or placed in quarantine prior to removal from site.

3.3.4 The quarantine area on site is located indicatively on Drawing GRE/B066441/LAY/01 and is separate from all other storage areas. Quarantined waste will be sheeted to prevent rainfall or wind from mobilising pollutants.

3.3.5 Quarantined wastes shall be removed from the site as soon as practicable. If the quarantine waste is infested or odorous, the waste will be removed within 24 hours or less. However, due to the nature of the waste accepted on site, it is not considered that infested or odorous waste will become an issue.

3.3.6 Whenever site specific acceptance criteria detailed in the contract agreed as stated in Section 3.1.4 are not met, this will be clearly communicated to the waste supplier and records of the communication shall be kept.

3.3.7 The site may cease accepting loads from a particular supplier if contamination has occurred repeatedly and the supplier has not attempted corrective action or, in the composter's opinion, the action taken has been ineffective.

3.4 Waste Tracking

3.4.1 All waste tracking procedures will be undertaken in accordance with Section 3.4 of Appropriate Measures.

3.4.2 Hanson's comprehensive recording system will be used to hold up-to-date information about the available capacity of different parts of the facility e.g. reception, quarantine, treatment, and storage areas. Hanson's system will ensure that the site has enough waste storage and process capacity for the incoming acceptable waste.

3.4.3 Hanson's comprehensive recording system holds all information generated during: -

- Pre-acceptance;
- Acceptance;
- Non-conforming or rejection;
- Storage;
- Repackaging;
- Treatment; and,
- Removal off site.

3.4.4 Records will be created and updated to reflect deliveries, onsite treatment, and despatches. The recording system will operate as a waste inventory and stock control system, including both wastes and end-of-waste materials produced at your facility. This will include the following: -

- The date the waste arrived on site;
- The original producer's details;
- A unique reference number;

- Waste pre-acceptance and acceptance information;
- The package type and size;
- The intended treatment or disposal route;
- The nature and quantity of wastes held on site;
- Where the waste is physically located on site;
- Where the waste is in the designated recovery or disposal process;
- Identifying the staff who have taken any decisions about attempting or rejecting waste streams and who have decided on recovery or disposal options;
- Details that link waste to relevant transfer notes; and,
- Details of any non-conformances and rejections, including consignment notes for waste rejected because it is hazardous.

3.4.5 Hanson's comprehensive recording system will report for each LoW code: -

- The total quantity of waste present on site at any one time;
- A breakdown of the waste quantities stored pending onsite treatment or awaiting onward transfer;
- Where a batch of waste is located based on a site plan;
- The quantity of waste on site compared with the limits in the management system and permit; and,
- The length of time the waste has been on site compared with the limits in the management system and permit.

3.4.6 The system will also report the total quantity of end-of-waste materials on site at any one time, and where the material is located on Drawing GRE/B066441/LAY/01.

3.4.7 Acceptance records will be kept for a minimum of 2 years after the waste has been treated or removed off site.

4.0 Storage Activities

4.0.1 All storage activities will be undertaken in accordance with Section 4 of the Appropriate Measures.

4.1 Storage Capacity

4.1.1 The maximum storage capacities of material on site at any one time is detailed in Table 2 below:

Table 2: Storage Capacities

Specified Waste Management Operation	Permitted Waste Types	Capacity Limits on Specified Waste Management Operations
R3: Recycling/reclamation of organic substances which are not used as solvents	All waste types permitted under permit	Maximum storage capacity of the facility to be 800,000 tonnes. There will be no hazardous waste accepted on site.
R5: Recycling/reclamation of other inorganic materials		
R13: Storage of waste consisting of materials for submission to any operation numbered R1 to R12, but excluding temporary storage pending collection on the site where it is produced		

4.1.2 There will be clearly designated areas for the storage and treatment processes within the soil washing facility. All soil washing treatment will be undertaken on an impermeable surface with a sealed drainage system. The dry recyclable processing and stockpile storage will also occur on impermeable surface.

4.2 Storage and Waste Handling Procedures

4.2.1 All storage and waste handling on site will be undertaken in accordance with Section 4 of the Appropriate Measures.

4.2.2 Waste on site will be stored and handled in a way that ensures prevention and minimisation of pollution risks.

4.2.3 The handling of waste will be minimised due to the efficient location of the waste storage areas and waste treatment areas on site. The location of these areas is shown on Drawing Number GRE/B066441/LAY/01.

4.2.4 Waste handling will be undertaken by competent staff with the assistance of mobile plant. All waste storage areas are located securely within the security protected area of the facility to restrict unauthorised access and vandalism.

4.2.5 All waste accepted on site comprises of non-hazardous soils, and therefore the first-in-first-out (FIFO) procedure does not need to be followed.

4.2.6 Storage areas, containers and infrastructure will be inspected daily to ensure there is no loss of containment. Written records of all inspections will be kept, and any spillages of waste will also be logged.

4.2.7 Due to the nature of the waste accepted on site, segregation procedures do not apply.

5.0 Waste Treatment

Soil Washing Facility

5.1.1 Upon arrival, all loads will be inspected by a suitably trained nominated person and any large or nonconforming materials will be removed prior to treatment. All stockpiles on site will be stored in a loose form. All soil washing activities will be undertaken on impermeable surface.

5.1.2 Materials will be fed into a hopper with the assistance of mobile plant and will then travel along a conveyor, at which point any small pieces of scrap metal which may be present within the waste loads will be removed using an overband magnet.

5.1.3 Any oversize materials (particles 100mm - 150mm) will be removed via a screener subject to materials feed.

5.1.4 The remaining waste material, varying in size depending on market demands, will then travel along a log washer where it will be sprayed with wash water. After passing along the log washer, the clean waste materials will be separated into smaller fractions via a gravel sizing screen.

5.1.5 The sand and silt fraction together with most of the water passes through screen and enters a sump from where it is pumped into a hydrocyclone or plate press, which will separate the sand from any contaminants. The water together with the silt and clay sized particles (together with any associated contaminants) will be forwarded from the hydrocyclone to the Siltbuster Water Treatment Plant. The water will then be recirculated back into the washing process.

5.1.6 Outputs from the Soil Washing Facility will be classed as products. However, any waste from the site will be categorised as set out in WM3 in accordance with Section 5.1 of the Appropriate Measures.

Physical Treatment of Non-Hazardous Waste Facility

5.1.7 Treatment undertaken under this activity within the Environmental Permit will consist of sorting, separation, screening, crushing, and blending of waste for recovery as a soil, soil substitute or aggregate.

5.1.8 Vehicles delivering waste loads will enter the site via the weighbridge, where the waste acceptance procedures mentioned above will be undertaken. If the waste is deemed acceptable, the driver will be directed to the waste treatment area as shown on the Site Layout Plan (Drawing Number GRE/B066441/LAY/01).

5.1.9 Waste will only be handled by competent staff.

5.1.10 A variety of waste treatment methods will be applied on site which is subject to the nature of the waste. Depending on the particle size of the material, a crusher may be employed to crush the waste and processed via a screener a second time to reduce the particle size of the material.

Alternatively, wastes that originally comprise finer particles will not require crushing and therefore will only be processed via a screener.

5.1.11 Following treatment, the waste will be unloaded into clearly defined stockpiles located adjacent the waste treatment area to the north of the site. Processed materials will be stored on the existing site hardstanding.

5.1.12 Products produced which are classified as inert in advance of receipt, and which are identified within the WRAP Quality Protocol for Aggregates from Inert Waste, will be treated in accordance with this guidance. The resultant materials will be tested in accordance with the WRAP Quality Protocol in order to determine whether they have met end of life test and as such cease to be classified as waste. These materials will be stored on hardstanding.

5.1.13 The results of the testing will determine the destination of the material in accordance with the End of Waste Protocol.

5.1.14 All treatment and storage activities will occur on impermeable surface.

5.1.15 Outputs from the Physical Treatment Facility will be classed as products. However, any waste from the site will be categorised as set out in WM3 in accordance with Section 5.1 of the Appropriate Measures.

5.1.16 All treatment activities will be undertaken in accordance with Section 5 of the Appropriate Measures. The site will have accurate and up-to-date written details of the treatment and abatement and control equipment utilised. Information about the characteristics of the waste to be treated and the waste treatment processes include: -

- Simplified process flow sheets that show the origin of the emissions;
- Diagrams of the main plant items where they have environmental relevance, for example, storage, tanks, treatment and abatement plant design;
- Details of physical processes e.g. separation, compaction, shredding, heating, cooling or washing;
- An equipment inventory, detailing in plant type and design parameters;
- Waste types to be subjected to the process;
- The control system philosophy and how the control system incorporates environmental monitoring information;
- Process flow diagrams (Provided within Appendix C of the Operating Techniques);
- The hourly processing capability of waste treatment equipment; and,
- Summary of operating and maintenance procedures.

5.1.17 Hanson will maintain details of the measures to be taken during abnormal operating conditions to make sure they continue to comply with permit conditions. Abnormal operating conditions include the following: -

- Unexpected releases;
- Start-up;
- Momentary stoppages; and,
- Shutdown.

6.0 Emissions Control

6.0.1 All emissions control procedures will be undertaken in accordance with Section 6 of the Appropriate Measures.

6.1 Point Source Emissions to Air

6.1.1 In accordance with Section 6.2 of the Appropriate Measures, the site will characterise the emissions to air sufficiently to ensure the chosen abatement systems are effective.

6.1.2 There are no point source emission to air for dust however an appropriate combination of abatement techniques will be in place for fugitive dust emissions. The dust abatement equipment on site includes rain guns, mobile mister, and tractor bowser.

6.1.3 Measures will be implemented on site to further prevent the risk of a potential adverse impact on sensitive receptors. Such measures are provided in the following management plans: -

- Dust Management Plan (Appendix E of the Environmental Permit Application);
- Environmental Risk Assessment (Appendix D of the Environmental Permit Application); and,
- Noise Management Plan (Appendix F of the Environmental Permit Application).

6.2 Fugitive Emissions to Air (Including Odour)

6.2.1 In accordance with Section 6.3 of the Appropriate Measures, fugitive emissions to air, including dust, mud, litter, odour and noise and vibration will be prevented and minimised.

6.2.2 Fugitive emissions to air have been identified as a potential environmental risk resulting from the proposal, as detailed in the Environmental Risk Assessment that accompanies this application as Appendix D.

6.2.3 An appropriate maintenance programme will be in place to cover all buildings, plant and equipment. The programme will include: -

- A leak detection and repair programme to identify and mitigate any fugitive emissions of organic compounds from treatment plant and associated infrastructure; and,
- Regular inspection and cleaning of all waste storage and treatment areas and equipment (including conveyor belts).

6.2.4 Weather conditions will be logged, including temperature, wind speed and direction, and description of any precipitation to identify when dispersion conditions are poor.

6.2.5 Measures will be implemented on site to further prevent the risk of a potential adverse impact on sensitive receptors. Such measures are provided in the following management plans: -

- Dust Management Plan (Appendix E of the Environmental Permit Application);
- Environmental Risk Assessment (Appendix D of the Environmental Permit Application); and,
- Noise Management Plan (Appendix F of the Environmental Permit Application).

6.2.6 It is anticipated that, due to the nature of the waste accepted on site, the risk of odour is minimal. Therefore, as determined within the Enhanced Pre-application Advice (EPR/ SP3723LK/P001), an Odour Management Plan need not accompany the application.

6.3 Pests

6.3.1 Due to the nature of wastes accepted on site, the risk of pests is minimal.

6.3.2 In accordance with Section 6.6 of the Appropriate Measures, pests have been identified as a potential environmental risk resulting from the proposal, as detailed in the Environmental Risk Assessment that accompanies this application as Appendix D.

6.4 Noise and Vibration

6.4.1 In accordance with Section 6.3 of the Appropriate Measures, a Noise Management Plan (NMP) has been prepared to describe the measures that will be in place to minimise the risk of noise from the proposed activities. The NMP is provided as Appendix F of the Environmental Permit application.

6.5 Fugitive Emissions to Land and Water

6.5.1 Fugitive emissions to land and water have been identified as a potential environmental risk resulting from the proposal, as detailed in the Environmental Risk Assessment that accompanies this application as Appendix D.

7.0 Process Efficiency

7.1 Energy Efficiency

7.1.1 This Environmental Permit Variation Application does not include proposals for an installation, therefore Section 8 of the Appropriate Measures does not apply.

7.1.2 The energy requirements of the facility are very low and are mainly associated with outdoor lighting within the permitted area. In line with the Environmental Management System (EMS), basic energy saving measures are adopted and continually reviewed. This includes measures such as: -

- Efficient use of plant to avoid unnecessary ignition;
- Plant to be switched off when not in use; and,
- Regular maintenance of all plant.

7.2 Waste Minimisation, Recovery and Disposal

7.2.1 It is crucial to note that the site outputs comprise of product only.

7.2.2 As required under the Environmental Permit, Hanson will have a programme of waste minimisation audits to ensure that an audit is carried out at least once every 4 years. Audits will include the following: -

- Methodology used;
- Analysis of raw materials used;
- Assessment of opportunities for reduction; and,
- An action plan for improvements.

7.2.3 The audit will be submitted to the EA within 2 months of completion.

7.2.4 Data will be incorporated for each principal stage of the operation, which will enable the calculation of the actual mass balance of the operation. This will then be used to assess opportunities to improve efficiency and reduce waste production. Hanson adopts the waste hierarchy to reach the requirement of waste minimisation.

8.0 Accident Management

8.0.1 All necessary measures will be taken to prevent the occurrence of accidents. The types of accidents and the potential environmental consequences associated with them have been identified in the Environmental Risk Assessment that accompanies this application.

8.0.2 It is considered that the most significant risk associated with the site is the unauthorised acceptance of non-compliant waste types. The waste acceptance procedures listed in Section 2 of this document aim to control and minimise this risk.

8.1 Fire Control

8.1.1 Due to the non-combustible nature of the waste accepted at the site, a Fire Prevention Plan is not required to support the application.

8.1.2 Firefighting equipment of a suitable type shall be kept at appropriate locations as advised by the Health and Safety Manager or the local Fire Service. All firefighting equipment shall be kept in good condition, unobstructed and be serviced by a competent person. The site will be designated as a “no smoking area” and signed accordingly.

8.1.3 Any fire on the site will be treated as an emergency and will be extinguished at the earliest opportunity. If necessary, the Fire Service will be summoned. Any incidents of fire will be reported to the EA and recorded in the Site Diary.

8.2 Maintenance Procedures

8.2.1 A Planned Preventative Maintenance programme (PPM) will be put in place to minimise the risk to safety, health, and the environment by ensuring that all appropriate items and elements within the site are serviced and inspected on a regular basis or to the manufacturers’ maintenance schedules.

8.2.2 Details of faults, breakdowns and repairs are documented, and records are maintained at the site office. Faults and breakdowns will be investigated, and the service schedule revised if necessary.

8.3 Spillage Procedure

8.3.1 There will be no waste oils accepted on site.

8.3.2 The most likely source for spillages will be from spillages of fuel/oil associated with site plant or vehicles.

8.3.3 In the event of a spillage of fuel/oil from site plant or vehicles, the following procedures will be implemented: -

- Clear the area straight away;
- Lay absorbent granules over the spill to soak up the spillage;

- Use Personal Protective Equipment (PPE) provided on site if required;
- Once the liquid has all been absorbed use a shovel to clear up the waste, put it in a plastic sack and then place it in the container for non-compliant waste for disposal at a suitably permitted facility; and,
- A record of the spill incident and remedial action taken will be recorded in the Site Diary.

8.3.4 Spillage kits will be maintained on site in order to respond to any spillage incident. The spillage kits will be stored strategically around the site to ensure their availability.

9.0 Site Management

9.1 Technical Competence

9.1.1 The nominated member of staff will possess the required level of technical competence which is provided as part of Appendix A of the Environmental Permit Application.

9.1.2 All site operatives will be adequately trained in health, safety and environmental issues. Staff will only be permitted to undertake activities that they have been trained for. They will be made aware of the procedures they must follow in the event of an accident or incident and will be able to access any relevant documentation that they may require. All training, experience and qualifications of staff will be noted, and these records will be maintained and kept up to date.

9.1.3 Staff competence will be managed in accordance with the Staff Competency and Training Plan that forms part of the site's management system.

9.2 Environmental Management System

9.2.1 As noted in the EA's 'Develop a Management System: Environmental Permits' guidance, all permitted facilities are required to have an Environmental Management System (EMS) to describe the procedures in place to minimise the risk of pollution from the activities covered in the environmental permit.

9.2.2 Hanson has a certified Environmental Management System in place which is compliant with the requirements of ISO 14001. A copy of the company's ISO 14001 Certificate is provided as Appendix B of this document. The operator may update their EMS procedures from time to time to reflect working practice which would take precedent over the details contained herein.

9.2.3 All site operatives would be adequately trained in health, safety, and environmental issues. Staff would only be permitted to undertake activities that they have been trained for. They would be made aware of the procedures they must follow in the event of an accident or incident and would be able to access any relevant documentation that they may require. All training, experience and qualifications of staff would be noted, and these records would be maintained and kept up to date.

10.0 Management of Documentation

10.1 Record Keeping

10.1.1 Hanson have an EMS which includes procedures for the management of documentation.

10.1.2 A record will be kept that provides details on all waste inputs at the site. This will include details on waste types, quantities, and the origin. This will be provided to the EA at three-monthly intervals, within one month of the end of each period. A record of basic waste characterisation and any compliance testing or on-site verification will be maintained in the site office.

10.1.3 A site diary style recording system will be kept in the site office at all times, and this will be updated daily. The diary will be used to record any accidents, incidents, or complaints. This will provide an ongoing record throughout the period of operation at the site, and this will enable any investigative or corrective action that may be required.

10.1.4 The Environmental Permit and other documents containing information regarding the operation of the site will be kept in a convenient location, allowing access for any person that may be working at or visiting the site.

11.0 Incident and Non-Conformances

11.1 Hanson have procedures for investigating and recording any incidents and non-conformances at the site, and for taking any corrective action. Hanson have an EMS which this includes procedures for handling incidents and non-conformances.

11.2 The following types of incidents will require investigation:-

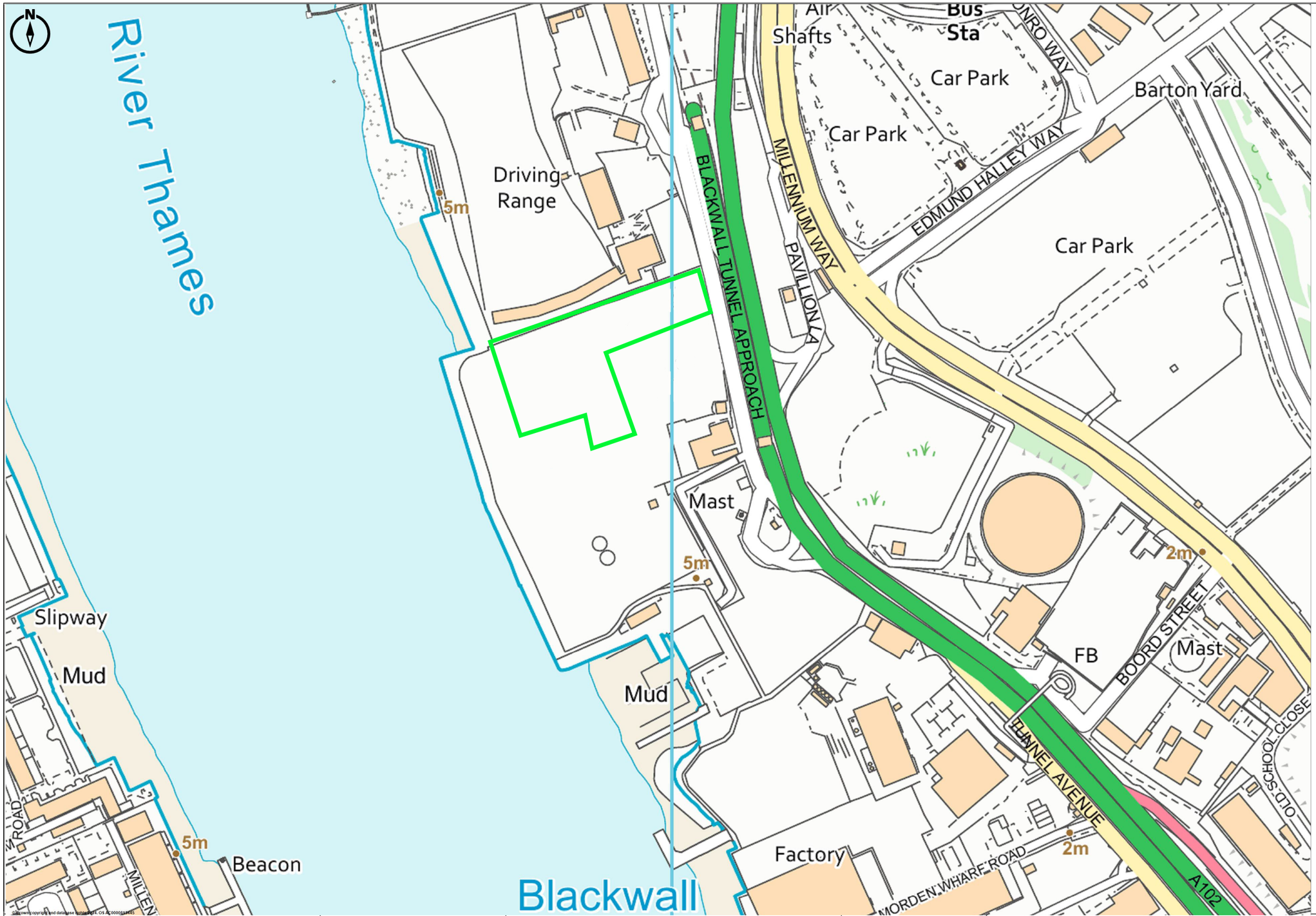
- Malfunction, breakdown or failure of plant and equipment;
- Deviation from site procedures and operating techniques;
- Near misses; and,
- Complaints from external parties.

11.3 All staff will be trained to detect and report any such occurrences. Procedures will be taken to allow operations to resume and preventative measures may be put in place to ensure that the incident does not reoccur.

Drawings

GRE/B066441/LAY/01 – Site Layout Plan

GRE/B066441/PER/01 – Permit Boundary Plan

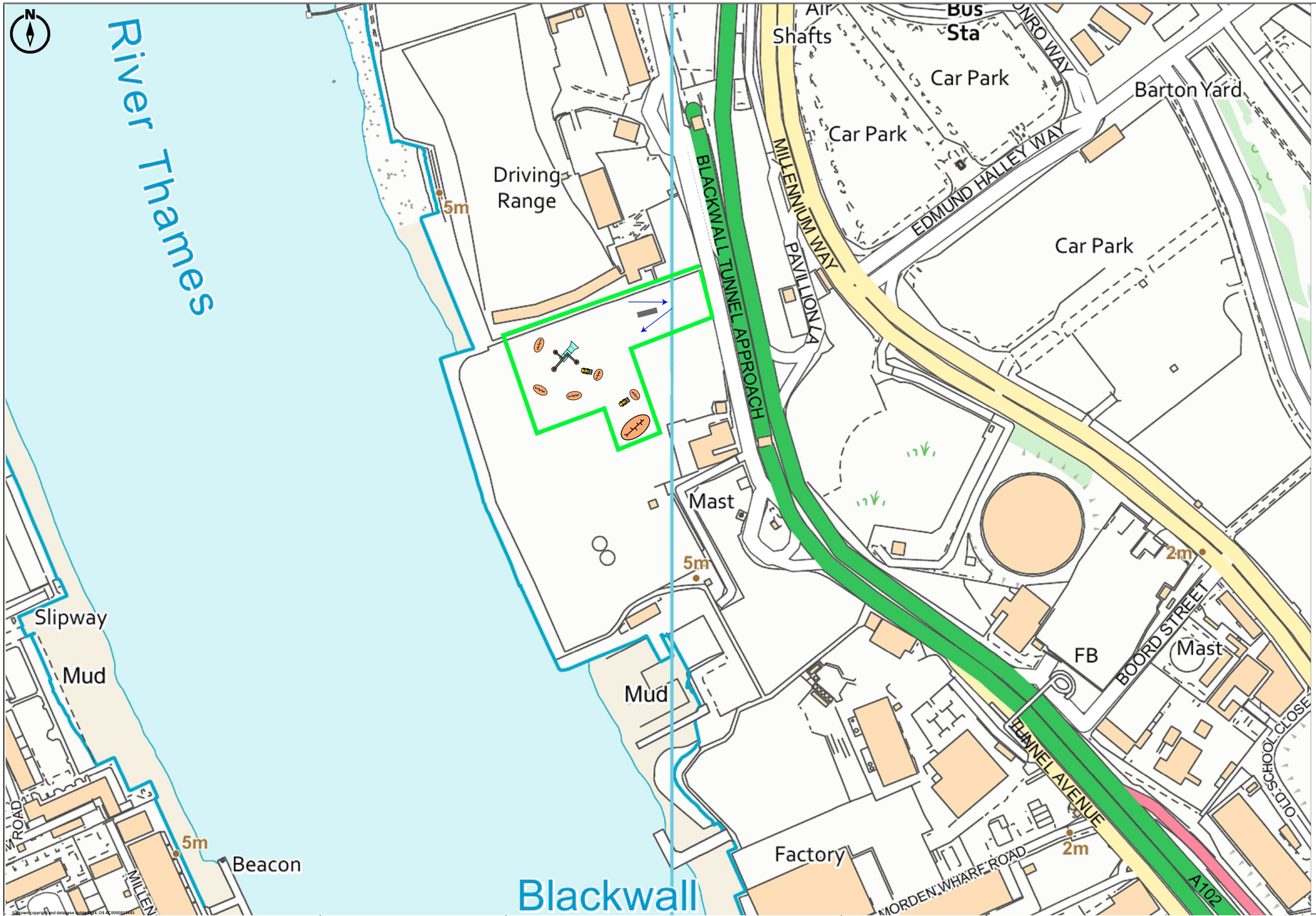


Client: Hanson Quarry Products	Created: GA Checked: LS	Key: ENVIRONMENTAL PERMIT BOUNDARY
Project: Greenwich Soil Washing Facility	Date: 13/12/2024	
Title: Permit Boundary Plan	Version: 1	
Drawing No: GRE/B066441/PER/02	Scale: 1:25,000	

2nd Floor,
11 York Street,
Manchester,
M2 2AW

+44 7816191646

TETRA TECH



Client: Hanson Quarry Products	Created: GA Checked: LS	Key: ENVIRONMENTAL PERMIT BOUNDARY	2nd Floor, 11 York Street, Manchester, M2 2AW +44 7816191646 TETRA TECH
Project: Greenwich Soil Washing Facility	Date: 13/12/2024		
Title: Indicative Site Layout Plan	Version: 1		
Drawing No: GRE/B066441/LAY/01	Scale: 1:25,000		

Appendix A - Waste Types

Table A1: Soil Washing Waste Types

EWC Code	Description	Restriction
01	**WASTE RESULTING FROM EXPLORATION, MINING, QUARRYING AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS**	
01 04	**Wastes from physical and chemical processing of non-metafillerous minerals**	
01 04 08	Waste gravel and crushed rocks other than those mentioned in 04 04 06	
01 04 09	Waste sand and clay	
01 04 13	Wastes from stone cutting and sawing other than those mentioned in 01 04 07	
10	**WASTES FROM THERMAL PROCESSES**	
10 11	**Wastes from manufacture of glass and glass products**	
10 11 12	Waste that as waste glass other than those mentioned in 10 11 11	
10 12	**Wastes from manufacture of ceramic goods, bricks, tiles and construction products**	
10 12 08	Waste ceramics, brick, tiles and construction products (after thermal processing)	
10 13	Wastes from manufacture of cement, lime and plaster and articles and products made from them	
10 13 14	Waste that as waste concrete and concrete sludge	
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**	
17 01	**Concrete, bricks, tiles and ceramics**	
17 01 01	Concrete	Selected C&D waste only
17 01 02	Bricks	Selected C&D waste only
17 01 03	Tiles and ceramics	Selected C&D waste only

17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	Selected C&D waste only. Metal from reinforced concrete must have been removed.
17 03	**Bituminous mixtures, coal tar and tarred products**	
17 03 02	Bituminous mixtures other than those mentioned in 17 03 01	
17 05	**Soil (including excavated soil from contaminated sites), stones and dredging spoil**	
17 05 04	Soil and stones other than those mentioned in 17 05 03	Excluding topsoil, peat; excluding soil and stones from contaminated sites
17 05 06	Dredging spoil other than those mentioned in 17 05 05*	
17 05 08	Track ballast other than those mentioned in 17 05 07*	
17 09	**Other construction and demolition wastes**	
17 09 04	Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**	
19 01	**Wastes from incineration or pyrolysis of waste**	
19 01 02	Ferrous materials removed from bottom ash	
19 01 11*	Waste that as bottom ash and slag containing hazardous substances	
19 01 12	Bottom ash and slag other than those mentioned in 19 01 11	
19 01 14	Fly ash other than those mentioned in 19 01 13	
19 01 16	Boiler dust other than those mentioned in 19 01 15	
19 01 18	Pyrolysis wastes other than those mentioned in 19 01 17	
19 01 19	Sands from fluidized beds	
19 02	**Wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)**	

19 02 06	Waste that as sludges from physico/chemical treatment other than those mentioned in 19 02 05	
19 12	**Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**	
19 12 09	Minerals only	Wastes from the treatment of waste aggregates that are otherwise naturally occurring minerals. Does not include fines from treatment of any non-hazardous waste or gypsum from recovered plasterboard.
19 12 12	Other wastes (including mixtures of materials) from other mechanical treatment of wastes other than those mentioned in 19 12 11	Including, but not limited to, IBAA
19 13	**Wastes from soil and groundwater remediation**	
19 13 02	Solid wastes from soil remediation other than those mentioned in 19 13 01	
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**	
20 02	**Garden and park wastes (including cemetery waste)**	
20 02 02	Soil and stones	Only from garden and parks waste; excluding topsoil, peat.

Table A2: Physical Treatment Facility Waste Types

EWC Code	Description
01	**WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS**

01 04	**Wastes from physical and chemical processing of non-metalliferous minerals**	
01 04 08	Waste gravel and crushed rocks other than those mentioned in 01 04 07	
01 04 09	Waste sand and clays	
10	**WASTES FROM THERMAL PROCESSES**	
10 01	**Wastes from power stations and other combustion plants (except 19)**	
10 01 01	Bottom ash and slag only	
10 01 02	Pulverised fuel ash only	
10 11	**Waste from manufacture of glass and glass products**	
10 11 12	Clean glass other than those mentioned in 10 11 11	
10 12	**Wastes from manufacture of ceramic goods, bricks, tiles and construction products**	
10 12 08	Waste ceramics, bricks, tiles and construction products (after thermal processes)	
10 13	**Wastes from manufacture of cement, lime and plaster and articles and products made from them**	
10 13 14	Waste concrete only	
15	**WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED**	
15 01	**Packaging (including separately collected municipal waste packaging)**	
15 01 07	Clean glass only	
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**	
17 01	**Concrete, bricks, tiles and ceramics**	
17 01 01	Concrete	
17 01 02	Bricks	
17 01 03	Tiles and ceramics	
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	
17 02	**Wood, glass and plastic**	
17 02 02	Clean glass only	
17 03	**Bituminous mixtures, coal tar and tarred products**	
17 03 02	Road base and road planings (other than those containing tar) only	
17 05	**Soil (including excavated soil from contaminated sites), stones and dredging spoil**	
17 05 04	Soil and stones other than those mentioned in 17 05 03	
17 05 08	Track ballast, soil and stones other than those mentioned in 17 05 07	
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**	
19 12	**Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**	
19 12 12	Waste that as other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	Including but not limited to IBAA
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**	
20 01	**Separately collected fractions (except 15 01)**	

20 01 02	Clean glass only
20 02	**Garden and park wastes (including cemetery waste)**
20 02 02	Soil and stones

Appendix B – ISO 14001 Certificate

Certificate of Conformity

CPC
Construction
Products
Certification

Hanson Quarry Products Europe Ltd

**Hanson House, 14 Castle Hill, Maidenhead,
Berkshire SL6 4JJ**

The Environmental Management System in operation at the locations shown on the attached schedule for the following scope of activities:

Quarrying, marine dredging, processing and distribution of aggregates, production of asphalt mixes, ready mixed concrete, mortar and natural stone products

is certified to conform to the following management system standard:

BS EN ISO 14001:2015

This Certificate is issued within the scope of the UKAS accreditation of CPC

Certificate No: CP E 00022 – Issue 3

Colin Head
Chief Executive

Date Authorised: 15 March 2023
Date of original certificate: 10 March 2004

THIS CERTIFICATE IS VALID FROM 17 MARCH 2023 TO 31 DECEMBER 2025

subject to continued compliance with the above standard as confirmed by routine surveillance. Confirmation of the current status of Certification may be obtained by enquiry to the CPC Central Records Office.

Construction Products Certification is an operating division of the Quality Scheme for Ready Mixed Concrete. A UKAS accredited certification body

1 Mount Mews
High Street, Hampton
Middlesex TW12 2SH
Telephone: 020 8481 9640
Facsimile: 020 8979 4558
www.qsrmc.co.uk

UKAS MANAGEMENT SYSTEMS
009

Certificate Schedule

(attached to and forming part of Certificate No: CP E 00022)

Environmental Management System Certification – ISO 14001:2015

Hanson Quarry Products Europe Ltd
Hanson House
14 Castle Hill
Maidenhead SL6 4JJ

Location	*Address*	*Activity*
ABERGELE	Nant Du Road, St George, Abergele, Conway LL22 9BD	The production of aggregates
ALLINGTON	20/20 Industrial Estate, St Lawrence Avenue, Allington, Maidstone, Kent ME16 0LQ	The production of aggregates
APPLEFORD	Sutton Courtenay Quarry, Appleford, Abingdon, Oxfordshire OX14 4PP	The production of aggregates
ARDINGLY	Ardingly Depot College Road, Ardingly, Haywards Heath, West Sussex RH17 6SH	The production of aggregates
AUCKLEY	Hurst Lane, Auckley, Doncaster DN9 3HQ	The production of aggregates
AUSTERFIELD	Highfield Lane, High Street, Austerfield, Nr Doncaster, South Yorkshire DN10 6RG	The production of aggregates
AVONMOUTH	St Andrews Road, Avonmouth, Bristol BS11 9HS	The production of aggregates
BARTON	Off Walton Lane, Barton-under-Needwood, Staffordshire DE13 8EJ	The production of aggregates
BASTON 2	Outgang Road, Langtoft, Peterborough, Cambridgeshire PE6 9QA	The production of aggregates
BATTS COMBE	Warrens Hill, Cheddar, Somerset BS27 3LR	The production of aggregates
BIRCH	Roundbush Corner, Maldon Road, Layer Marney, Colchester, Essex CO5 9XE	The production of aggregates
BRAYFORD (BRAY VALLEY)	Barton Wood Quarry, Brayford, Barnstaple, Devon EX32 7QB	The production of aggregates
BRIDGEND (LITHALUN)	Ewenny, Bridgend CF35 5AN	The production of aggregates
BUILTH	Builth Wells, Powys LD2 3UB	The production of aggregates

Certificate Schedule

(attached to and forming part of Certificate No: CP E 00022)

Environmental Management System Certification – ISO 14001:2015

Hanson Quarry Products Europe Ltd
Hanson House
14 Castle Hill
Maidenhead SL6 4JJ

Location	*Address*	*Activity*
BULLS LODGE	Generals Lane, Boreham, Chelmsford, Essex CM3 3HR	The production of aggregates
CEFN MAWR	Cadpole Road, Pantybuarth, Mold, Flintshire CH7 5EA	The production of aggregates
CHEADLE (FREEHAY)	Freehay Road, Freehay, Staffordshire ST10 1TR	The production of aggregates
CHIPPING SODBURY	Wickwar Road, Chipping Sodbury, Bristol BS37 6AY	The production of aggregates
COLN (LECHLADE)	Coln Gravel, Claydon Pike, Lechlade, Gloucestershire GL7 3DT	The production of aggregates
CONDOVER	Norton Farm, Condover, Shrewsbury, Shropshire SY5 7AR	The production of aggregates
CRAIG-YR-HESG	Berw Road, Pontypridd, CF37 3BG	The production of aggregates
CRIGGION	Criggion Quarry, Shrewsbury, Powys, SY5 9BA	The production of aggregates
DAGLINGWORTH	Gloucester Road, Daglingworth, Cirencester, Gloucestershire GL7 7JB	The production of aggregates
EARLS BARTON	Grendon Road, Earls Barton, Northampton NN6 0PE	The production of aggregates
GELLIGAER	Trelewis, Treharris, Mid Glamorgan CF46 6TA	The production of aggregates
HINGSTON	Hingston Down Quarry, Gunnislake, Cornwall PL18 9AU	The production of aggregates
HORTON	Horton-in-Ribblesdale, Nr Settle, North Yorkshire BD24 OHR	The production of aggregates
INGLETON	Ingleton Quarry, Ingleton via Carnforth, Lancashire LA6 3AW	The production of aggregates
KEEPERSHIELD	Keepershield Quarry, Humshaugh, Nr Hexham, Northumberland NE46 4BB	The production of aggregates

Certificate Schedule

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Environmental Management System Certification – ISO 14001:2015

Hanson Quarry Products Europe Ltd
Hanson House
14 Castle Hill
Maidenhead SL6 4JJ

Location	*Address*	*Activity*
LOW GELT	Low Gelt Quarry, Low Gelt Bridge, Brampton, Carlisle, Cumbria CA8 1CY	The production of aggregates
MACHEN	Machen, Near Newport CF83 8YP	The production of aggregates
MANOR FARM	Manor Farm, Haversham Road, Wolverton, Milton Keynes MK12 5NN	The production of aggregates
MASTERS PIT QUARRY	Binnegar, Wareham, Dorset BH20 6AH	The production of aggregates
MERCASTON	Mercaston Lane, Mercaston, Derbyshire DE6 4SQ	The production of aggregates
NEEDINGWORTH	Needingworth Road, Bluntisham, Huntingdon, Cambridgeshire PE17 3RJ	The production of aggregates
PATELEY BRIDGE	Coldstones Quarry, Greenhow Hill, Pateley Bridge, Harrogate, North Yorkshire HG3 5JQ	The production of aggregates
PENDERYN	Penderyn, Near Aberdare CF44 0TX	The production of aggregates
PENMAENMAWR	Penmaenmawr Quarry, Bangor Road, Penmaenmawr, Conwy LL34 5NA	The production of aggregates
POTTAL POOL	Teddesley Hay, Penkridge, Staffordshire ST19 5RR	The production of aggregates
RIPON	Ure Valley Quarry, North Stainley, Ripon, North Yorkshire HG4 3HT	The production of aggregates
SHAP	Shap Beck Quarry, Shap, Penrith, Cumbria CA10 2NX	The production of aggregates
SHARDLOW	Aston Lane, Aston-on-Trent, Derby DE72 2SP	The production of aggregates
VICTORIA DEEP	The Weighbridge, Victoria Deep Water Terminal, 231 Tunnel Avenue, North Greenwich, London SE10 0QE	The production of aggregates
WEST DRAYTON	West Drayton Depot, Stockley Road, West Drayton, Middlesex UB7 8NF	The production of aggregates

Certificate Schedule

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Environmental Management System Certification – ISO 14001:2015

Hanson Quarry Products Europe Ltd
Hanson House
14 Castle Hill
Maidenhead SL6 4JJ

Location	*Address*	*Activity*
WHATLEY	Whatley Quarry, Frome, Somerset BA11 3LF	The production of aggregates
WHITEBALL	Whiteball Quarry, Whiteball, Nr Wellington, Somerset TA21 0LY	The production of aggregates
WYKEHAM	Wykeham Quarry, Wykeham, Scarborough, North Yorkshire YO13 9QU	The production of aggregates
APPLEDORE	Bidna Yard, Hubbastone Road, Appledore, Bideford, Devon EX39 1LZ	The receipt and/or processing of aggregates
BRIDGWATER (DUNBALL)	Puriton, Bridgwater, Somerset TA6 4EJ	The receipt and/or processing or marine dredged aggregates
CARDIFF WHARF	Roath Dock Road, Cardiff CF10 4ED	The receipt and/or processing or marine dredged aggregates, the production of concrete or mortar
DAGENHAM	Dagenham Wharf, Dagenham Dock Road, Chequers Lane, Dagenham, Essex RM9 6QD	The receipt and/or processing of aggregates
EXETER	St David's Rail, Sidings, Riverside Yard, Exeter, Devon EX4 4AP	The receipt and/or processing of aggregates
FELNEX NEWPORT	Felnex Industrial Estate, East Bank Road, Newport NP9 0PP	The receipt and/or processing of aggregates
FRINDSBURY	Frindsbury Wharf, Anthony's Way, Medway City Estate, Rochester, Kent ME2 4EN	The receipt and/or processing of aggregates
GARSTON	Garston Docks, Liverpool L19 2JW	The receipt and/or processing of aggregates
KIDLINGTON	Kidlington Siding, Banbury Road, Nr Kidlington, Oxfordshire OX2 8HA	The receipt and/or processing of aggregates
READING (THEALE)	Wigmore Lane, Theale, Reading, Berkshire RG7 5HG	The receipt and/or processing of aggregates
SOUTHAMPTON	Burnley Wharf, Marine Parade, Southampton SO14 5JF	Marine dredging of aggregates

Certificate Schedule

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Environmental Management System Certification – ISO 14001:2015

Hanson Quarry Products Europe Ltd
Hanson House
14 Castle Hill
Maidenhead SL6 4JJ

Location	*Address*	*Activity*
ALLINGTON	20/20 Industrial Estate, St Lawrence Avenue, Allington, Maidstone, Kent ME16 0LQ	The production of asphalt mixes
APPLEFORD	Sutton Courtenay Quarry, Appleford, Abingdon, Oxfordshire OX14 4PP	The production of asphalt mixes
ARDINGLY	Ardingly Depot College Road, Ardingly, Haywards Heath, West Sussex RH17 6SH	The production of asphalt mixes
BATTS COMBE	Warrens Hill, Cheddar, Somerset BS27 3LR	The production of asphalt mixes
BRADFORD	Common Road, Low Moor, Bradford, West Yorkshire BD12 OSW	The production of asphalt mixes
BRAYFORD (BRAY VALLEY)	Barton Wood Quarry, Brayford, Barnstaple, Devon EX32 7QB	The production of asphalt mixes
BUILTH	Builth Wells, Powys LD2 3UB	The production of asphalt mixes
BULLS LODGE	Generals Lane, Boreham, Chelmsford, Essex CM3 3HR	The production of asphalt mixes
CRAIG-YR-HESG	Berw Road, Pontypridd, Mid Glamorgan CF37 3BG	The production of asphalt mixes
CRIGGION	Criggion Quarry, Shrewsbury, Powys SY5 9BA	The production of asphalt mixes
DAGENHAM	Dagenham Wharf, Dagenham Dock Road, Chequers Lane, Dagenham, Essex RM9 6QD	The production of asphalt mixes
HINGSTON	Hingston Down Quarry, Gunnislake, Cornwall PL18 9AU	The production of asphalt mixes
KEEPERSHIELD	Humshaugh, Nr Hexham, Northumberland NE46 4BB	The production of asphalt mixes
LEEDS	South Accomodation Road, Leeds, West Yorkshire LS9 ORT	The production of asphalt mixes

Certificate Schedule

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Hanson Quarry Products Europe Ltd
Hanson House
14 Castle Hill
Maidenhead SL6 4JJ

Location	*Address*	*Activity*
PATELEY BRIDGE	Coldstones Quarry, Greenhow Hill, Pateley Bridge, Harrogate, North Yorkshire HG3 5JQ	The production of asphalt mixes
PENDERYN	Penderyn, Near Aberdare CF44 0TX	The production of asphalt mixes
PENMAENMAWR	Penmaenmawr Quarry, Bangor Road, Penmaenmawr, Conwy LL34 5NA	The production of asphalt mixes
RUNCORN	Aram Wharf, Percival Lane, Runcorn, Cheshire WA7 4UY	The production of asphalt mixes
SHAP	Shap Beck Quarry, Shap, Penrith, Cumbria CA10 2NX	The production of asphalt mixes
SOUTHAMPTON (TOTTON)	Eling Wharf, Totton, Southampton SO40 4TE	The production of asphalt mixes
TYTHERINGTON	Wotton under Edge, Gloucestershire GU12 8UW	The production of asphalt mixes
TYTHERINGTON MOBILE	Wotton under Edge, Gloucestershire GU12 8UW	The production of asphalt mixes
WEST DRAYTON	West Drayton Depot, Stockley Road, West Drayton, Middlesex UB7 8NF	The production of asphalt mixes
WHATLEY	Whatley Quarry, Frome, Somerset BA11 3LF	The production of asphalt mixes
WIGAN (ASHTON)	Edge Green Road, Ashton in Makerfield, Wigan WN4 8YA	The production of asphalt mixes
ABBEY MILLS	MCP UK X DCM96-2, Abbey Mills Pumping Station, Gay Road, London E16 2RN	The production of concrete or mortar
ACTON	British Rail Goods Yard, Horn Lane, Acton, London W3 0EP	The production of concrete or mortar
AINTREE	Hartley's Avenue, Hartley's Village, Aintree, Liverpool L9 7DB	The production of concrete or mortar
AIRDRIE	Petersburn Road, Airdrie, Lanarkshire ML6 6UU	The production of concrete or mortar

Certificate Schedule

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Environmental Management System Certification – ISO 14001:2015

Hanson Quarry Products Europe Ltd
Hanson House
14 Castle Hill
Maidenhead SL6 4JJ

Location	*Address*	*Activity*
ALLERTON PARK	Allerton Park, Knaresborough, North Yorkshire HG5 OSD	The production of concrete or mortar
ALTRINHAM	Atlantic Street, Broadheath, Altrinham, Cheshire WA14 5DD	The production of concrete or mortar
ANDOVER	Shepherds Spring Lane, Andover, Hampshire SP10 1DL	The production of concrete or mortar
APPLEDORE	Bidna Yard, Hubbastone Road, Appledore, Bideford, Devon EX39 1LZ	The production of concrete or mortar
ASHBOURNE	Moor Farm Road East, Ashbourne Airfield Industrial Estate, Ashbourne, Derbyshire DE6 1HA	The production of concrete or mortar
ASHFORD	Leacon Road, Fairwood Industrial Estate, Ashford, Kent TN23 3TX	The production of concrete or mortar
AUCKLEY	Hurst Lane, Auckley, Doncaster DN9 3HQ	The production of concrete or mortar
AVONMOUTH	St Andrews Road, Avonmouth, Bristol BS11 9HS	The production of concrete or mortar
AVONMOUTH 2	Avonmouth Marine Terminal, Royal Edward Dock, Avonmouth, Bristol BS11 9BT	The production of concrete or mortar
AYLESBURY	Rabans Lane, Aylesbury, Buckinghamshire HP19 3RT	The production of concrete or mortar
BAMBER BRIDGE	Charnley Fold Lane, Bamber Bridge, Preston, Lancashire PR5 6QD	The production of concrete or mortar
BASINGSTOKE	Swing Swang Lane, Daneshill Industrial Estate, Basingstoke RG24 ONR	The production of concrete or mortar
BATTERSEA	Kirtling Street, Nine Elms, London SW8 5BP	The production of concrete or mortar
BATH	Newbridge Road, Bath BA1 3HH	The production of concrete or mortar

Certificate Schedule

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Environmental Management System Certification – ISO 14001:2015

Hanson Quarry Products Europe Ltd
Hanson House
14 Castle Hill
Maidenhead SL6 4JJ

Location	*Address*	*Activity*
BEACONSFIELD	Springfield Farms, Broad Lane, Hotspur, Beaconsfield, Buckinghamshire HP9 1XD	The production of concrete or mortar
BEDFORD	Cople Turn, Sandy Road, Cople, Bedfordshire MK44 3TP	The production of concrete or mortar
BEDWORTH	Bayton Road, Exhall, Coventry CV7 9PH	The production of concrete or mortar
BIRMINGHAM	Landor Street, Birmingham, West Midlands B8 1AE	The production of concrete or mortar
BLACKBURN	Greenbank Industrial Estate, Greenbank Road, Whitebirk, Blackburn, Lancashire BB1 3HT	The production of concrete or mortar
BORDON	Picketts Hill Lane, Sleaford, nr Bordon, Hampshire GU35 8TF	The production of concrete or mortar
BOURNEMOUTH	Mannings Heath Road, Parkstone, Poole, Dorset BH12 4NQ	The production of concrete or mortar
BRIDGEND	Ewenny, Bridgend CF35 5AN	The production of concrete or mortar
BRIDGWATER	Brue Avenue, Colley Lane Industrial Estate, Bridgwater, Somerset TA6 5LT	The production of concrete or mortar
BRIDLINGTON	Pinfold Lane, Bridlington, East Yorkshire YO16 6XP	The production of concrete or mortar
BRISTOL	Victoria Road, St Phillips, Bristol BS2 0UT	The production of concrete or mortar
BUDE	Herdbury, Ivyleaf Hill, Bush, Bude, Cornwall EX23 9LD	The production of concrete or mortar
BURTON	Off Walton Lane, Barton-under-Needwood, Staffordshire DE13 8EJ	The production of concrete or mortar
BYFLEET	Wintersells Road, off Oyster Lane, Byfleet, Surrey KT14 7LF	The production of concrete or mortar

Certificate Schedule

(attached to and forming part of Certificate No: CP E 00022)

Environmental Management System Certification – ISO 14001:2015

Hanson Quarry Products Europe Ltd
Hanson House
14 Castle Hill
Maidenhead SL6 4JJ

Location	*Address*	*Activity*
CAMBRIDGE	Coldhams Lane, Cambridge CB1 3HS	The production of concrete or mortar
CANNOCK	Teddesley Hay, Penkridge, Staffordshire ST19 5RR	The production of concrete or mortar
CANNINGTON	Castle Hill Quarry, Chads Hill, Cannington, Bridgwater, Somerset TA5 2QF	The production of concrete or mortar
CANTERBURY	254 Broad Oak Road, Canterbury, Kent CT2 7QL	The production of concrete or mortar
CARDIFF ST DAVIDS	Cardiff Roath Dock Road, Cardiff CF10 4ED	The production of concrete or mortar
CARLISLE	Willowholme Industrial Estate, Carlisle, Cumbria CA2 5RZ	The production of concrete or mortar
CARMARTHEN	Plot 11 Cillefwr Industrial Estate, Johnstown, Carmarthen SA31 3RU	The production of concrete or mortar
CASTLEFORD	Carrwood Road, Carrwood Ind Estate, Castleford, West Yorkshire WF10 4PS	The production of concrete or mortar
CHAMBERS WHARF	MCP UK X DCM96-3 Chambers Wharf, Chambers Street, Bermondsey, London SE16 4XR	The production of concrete or mortar
CHANDLERS FORD	School Lane, Chandlers Ford, Hampshire SO53 3DG	The production of concrete or mortar
CHELMSFORD	Bulls Lodge, Generals Lane, Boreham, Chelmsford, Essex CM3 3HR	The production of concrete or mortar
CHELTENHAM	Tewkesbury Road, Cheltenham, Gloucestershire GL51 9PJ	The production of concrete or mortar
CHESTER	Knutsford Way, Sealand Trading Estate, Chester, Cheshire CH1 4NS	The production of concrete or mortar
CHIPPING SODBURY	Chipping Sodbury Quarry, Wickwar Road, Chipping Sodbury, Bristol BS37 6AY	The production of concrete or mortar

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Maidenhead SL6 4JJ

Location	*Address*	*Activity*
COLCHESTER	Roundbush Corner, Maldon Road, Layer Marney, Colchester, Essex CO5 9XE	The production of concrete or mortar
COVENTRY	Torrington Avenue, Tile Hill, Coventry CV4 9AP	The production of concrete or mortar
CRAWLEY	Stephenson's Place, Three Bridges, Crawley, West Sussex RH10 1TN	The production of concrete or mortar
CROSSHANDS	Plot 9, Crosshands Business Park, Crosshands, Llanelli SA14 6RB	The production of concrete or mortar
CROYDON	Beddington Farm Road, Croydon, London CR0 4XB	The production of concrete or mortar
DAGENHAM	Dagenham Dock Road, Chequers Lane, Dagenham, Essex RM9 6QD	The production of concrete or mortar
DENBIGH	Craig Road, Denbigh, Denbighshire LL16 3YE	The production of concrete or mortar
DENHAM	Skip Lane, Harvil Road, Ickenham, Middlesex UB10 8AW	The production of concrete or mortar
DERBY	Acre Lane, Aston on Trent, Shardlow, Derbyshire DE7 2GX	The production of concrete or mortar
DRUMCHAPEL	Dalsetter Avenue, Drumchapel, Glasgow G15 8SZ	The production of concrete or mortar
EBBW VALE	Plot 12 Waun yr Pound Industrial Estate, Ebbw Vale NP3 6PL	The production of concrete or mortar
EDINBURGH	Nivensknowe Road, Loanhead, Edinburgh EH20 9AU	The production of concrete or mortar
EDMONTON	Stacey Avenue, off First Avenue, Edmonton, London N18 3PL	The production of concrete or mortar
EGREMONT	Croft Pit Yard, Bigrigg, Egremont, Cumbria CA22 2TX	The production of concrete or mortar
ELY	Angel Drove, Ely, Cambridgeshire CB6 2AY	The production of concrete or mortar
ERITH	Church Manorway, Erith, Kent DA8 1DE	The production of concrete or mortar

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Location	*Address*	*Activity*
EXETER	16 Hennock Road, Marsh, Barton, Exeter, Devon EX2 8RU	The production of concrete or mortar
FROME	Whatley, Frome, Somerset BA11 3LF	The production of concrete or mortar
GARSTON	Garston Docks, Liverpool L19 2JW	The production of concrete or mortar
GLASGOW CENTRAL	60-70 Jessie Street, Polmadie, Glasgow G42 0PG	The production of concrete or mortar
GOSPORT	Fareham Road, Gosport, Hampshire PO13 OAQ	The production of concrete or mortar
GREENHITHE	Johnsons Wharf, Crossways Boulevard, Greenhithe, Dartford DA9 9BT	The production of concrete or mortar
GREENWICH 1	231 Tunnel Avenue, North Greenwich, London SE10 0QE	The production of concrete or mortar
GREENWICH 2	231 Tunnel Avenue, North Greenwich, London SE10 0QE	The production of concrete or mortar
GUILDFORD	Riverway Estate, Peasmarsh, Guildford, Surrey GU3 1 LZ	The production of concrete or mortar
GUNNISLAKE	Hingston Down, Gunnislake, Cornwall PL18 9AU	The production of concrete or mortar
GWALCHMAI	Caer Glaw, Gwalchmai, Anglesey LL65 4PW	The production of concrete or mortar
HAILSHAM	Diplocks Way Industrial Estate, Diplocks Way, Hilsham, East Sussex BN27 3JF	The production of concrete or mortar
HAVANT	Harts Farm Way, Havant, Hampshire PO9 1JN	The production of concrete or mortar
HAVERHILL	Kedington Road, Sturmer, Haverhill, Suffolk CB9 7XR	The production of concrete or mortar
HEMEL HEMPSTEAD	River End Road, Boxmoor, Hemel Hempstead, Hertfordshire HP3 9AJ	The production of concrete or mortar
HEXHAM	Howford Quarry, Acomb, Hexham, Northumberland NE46 4RY	The production of concrete or mortar

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Location	*Address*	*Activity*
HORSHAM	Foundry Lane, Horsham, West Sussex RH13 5PX	The production of concrete or mortar
IPSWICH	Sproughton Road, Ipswich, Suffolk IP1 5AN	The production of concrete or mortar
KINGS CROSS	Freight Lane, off York Way, Kings Cross, London N1C 4AU	The production of concrete or mortar
LEEDS 1	Cross Green Way, Cross Green Industrial Estate, Leeds, West Yorkshire LS9 0SE	The production of concrete or mortar
LEEDS 2	Knowesthorpe Road, Cross Green Ind Estate, Leeds, West Yorkshire LS9 0SA	The production of concrete or mortar
LEICESTER	Newtown Linford Lane, Groby, Leicestershire LE6 0HF	The production of concrete or mortar
LEITH	24 West Shore Road, Granton, Edinburgh EH5 1QG	The production of concrete or mortar
LOW MOOR (BRADFORD)	Common Road, Low Moor, Bradford, West Yorkshire BD12 OSW	The production of concrete or mortar
LUTON	Cosgrove Way, Luton, Bedfordshire LU1 1XL	The production of concrete or mortar
MANCHESTER – RENAKER PLANT 2	Great Jackson Street, Manchester M15 4PA	The production of concrete or mortar
MARKET HARBOROUGH	Rockingham Road, Market Harborough, Leicestershire LE16 7QE	The production of concrete or mortar
MCP UK T ALQUEZAR 1	Thamesport, Grain Road, Isle of Grain, Rochester ME3 0EP	The production of concrete or mortar
MCP UK T ALQUEZAR 2	Thamesport, Grain Road, Isle of Grain, Rochester ME3 0EP	The production of concrete or mortar
MCP UK Y McCRORY KT TEESSIDE 1	Teesside Monopile, Teeswork Site, Smiths Dock Road, Middlesborough TS6 6UJ	The production of concrete or mortar
MCP UK Z McCRORY KT TEESSIDE 2	Teesside Monopile, Teeswork Site, Smiths Dock Road, Middlesborough TS6 6UJ	The production of concrete or mortar

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Location	*Address*	*Activity*
MELTON MOWBRAY	Holwell Works, Welby Road, Ashford by Melton Mowbray, Leicestershire LE14 3QX	The production of concrete or mortar
MILDENHALL	Worlington Bay Farm, Red Lodge, Elms Road, Suffolk IP28 6BS	The production of concrete or mortar
MILES PLATTING	Norton Street, Miles Platting, Greater Manchester M40 8HD	The production of concrete or mortar
MILTON KEYNES	Old Wolverton Road, Wolverton, Milton Keynes, Buckinghamshire MK12 5QP	The production of concrete or mortar
MOLD	Gas Lane, Mold, Flintshire CH7 1UR	The production of concrete or mortar
NEWBURY	Boundary Road, Newbury, Berkshire RG14 5RR	The production of concrete or mortar
NEWPORT	Felnex Industrial Estate, East Bank Road, Newport NP9 0PP	The production of concrete or mortar
NEWTON ABBOT	Royal Aller Vale, Newton Abbot, Devon TQ12 4NW	The production of concrete or mortar
NORTHAMPTON	Weedon Road Ind Est, Weedon Road, Northampton NN5 5AL	The production of concrete or mortar
NOTTINGHAM	Wigwam Lane, Hucknall, Nottinghamshire NG15 7TA	The production of concrete or mortar
OLDBURY	Roway Lane, Oldbury, Warley, West Midlands B69 3EH	The production of concrete or mortar
OLDHAM	Forge Mill Peel Street, Chadderton, Oldham, Lancashire OL9 9LN	The production of concrete or mortar
OXFORD	Horspath Road, Oxford, Oxfordshire OX4 2DP	The production of concrete or mortar
PENDERYN	Penderyn, Near Aberdare CF44 0TX	The production of concrete or mortar
PENMAENMAWR	Bangor Road, Penmaenmawr, Conwy LL34 5NA	The production of concrete or mortar

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Location	*Address*	*Activity*
PLYMOUTH	Cattedown Site, Shapters Way, Cattedown, Plymouth, Devon PL9 7HY	The production of concrete or mortar
READING 2	Theale Sidings, Wigmore Lane, Theale Reading RG7 5HG	The production of concrete or mortar
RIPON	Ure Valley, North Stainley, Ripon, North Yorkshire HG4 3HT	The production of concrete or mortar
ROCHESTER	Royal Eagle Close, Medway City Estate, Rochester, Kent ME2 4NF	The production of concrete or mortar
ROSSINGTON	Bankwood Lane, Rossington, Doncaster, South Yorkshire DN11 0PS	The production of concrete or mortar
SALFORD 1	Daniel Adamson Road, Salford M50 1DS	The production of concrete or mortar
SALISBURY	Stephenson Road, Churchfields, Salisbury, Wiltshire SP2 7QL	The production of concrete or mortar
SCARBOROUGH	Wykeham, Scarborough, North Yorkshire YO13 9QU	The production of concrete or mortar
SELLAFIELD	Sellafield, Cumbria CA20 1PG	The production of concrete or mortar
SHEFFIELD	Highbridge Forge, 918 Pennistone Road, Sheffield, South Yorkshire S6 2DL	The production of concrete or mortar
SHOREHAM	Shoreham Port, Southwick, West Sussex BN41 1DN	The production of concrete or mortar
SHREWSBURY	Mousecroft Lane, Radbrook, Shrewsbury, Shropshire SY3 9OX	The production of concrete or mortar
SITTINGBOURNE	Ridham Dock Road, Kemsley, Sittingbourne, Kent ME9 8SR	The production of concrete or mortar
SKIPTON	Skipton Rock, Embsay Road, Skipton, North Yorkshire BD23 6AB	The production of concrete or mortar
SOUTHAMPTON	Burnley (Britannia) Marine Parade, Southampton, Hampshire SO14 5JF	The production of concrete or mortar

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Location	*Address*	*Activity*
SOUTHEND	Brickfields Way, Purdeys Ind Estate, Rochford, Essex SS4 1LX	The production of concrete or mortar
ST IVES	Meadow Lane, St Ives, Cambridgeshire PE17 4BU	The production of concrete or mortar
STIRLING	Whitehouse Road, Springkerse Industrial Estate, Stirling FK7 7SP	The production of concrete or mortar
STOCKTON-ON-TEES 3	Blue House Point Road, Stockton-on-Tees, Durham TS18 2PH	The production of concrete or mortar
STOKE-ON-TRENT	Mossfield Industrial Estate, Mossfield Road, Stoke on Trent ST3 5BW	The production of concrete or mortar
SUTTON COURTENEY	Sutton Courtenay, Appleford, Abingdon, Oxfordshire OX14 4PP	The production of concrete or mortar
SWANSEA	Enterprise Park, Morriston, Swansea SA6 8QL	The production of concrete or mortar
SWINDON	Bramble Close, Elgin, Swindon, Wiltshire SN2 6DW	The production of concrete or mortar
TAUNTON	Priorswood Trading Estate, Taunton, Somerset TA2 8DG	The production of concrete or mortar
TEESPORT	Teesport Grange town, Middlesbrough, Cleveland TS6 6UF	The production of concrete or mortar
THEALE	Wigmore Lane, Theale, Reading, Berkshire RG7 5HH	The production of concrete or mortar
TIVERTON	Howden Ind Estate, Tiverton, Devon EX16 5EY	The production of concrete or mortar
TUNBRIDGE WELLS	Clifton Road, Tunbridge Wells, Kent TN2 3AU	The production of concrete or mortar
WAKEFIELD	Calder Vale Road, Wakefield WF1 5PE	The production of concrete or mortar
WALLASEY	Dock Road, Nr Old Gorsey Lane, Wallasey, Merseyside L41 1ES	The production of concrete or mortar
WANDSWORTH	Pier Terrace, Jews Road, Wandsworth, London SW18 1TB	The production of concrete or mortar

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Location	*Address*	*Activity*
WARE	Marsh Lane, Ware, Hertfordshire SG12 9QQ	The production of concrete or mortar
WARRINGTON	Gatewarth Ind Estate, Sankey Bridge, Warrington WA5 1DS	The production of concrete or mortar
WASHINGTON	Wilden Road, Pattinson Ind Estate District 8, Washington NE38 8QA	The production of concrete or mortar
WEEFORD	Moneymore Farm, Canwell, Sutton Coldfield, Weeford, West Midlands B75 5SX	The production of concrete or mortar
WELLINGBOROUGH	Sanders Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire NN8 4NL	The production of concrete or mortar
WEST DRAYTON	Stockley Road, West Drayton,Middlesex UB7 9FN	The production of concrete or mortar
WEST HOUGHTON	Pendlebury, Fold Bolton, Gtr Manchester BL3 4SF	The production of concrete or mortar
WIGAN	23 Queen Street, Wigan, Gtr Manchester WN3 4DZ	The production of concrete or mortar
WIMBLEDON	Archway Close, Endeavour Way, Durnsford Road, Wimbledon, London SW19 8UH	The production of concrete or mortar
WINSFORD	Deakins Lane, Off Smoke Hall Lane Industrial Estate, Winsford, Cheshire CW7 3BJ	The production of concrete or mortar
WOLVERHAMPTON	Foxes Lane, Wolverhampton, West Midlands WV1 1PA	The production of concrete or mortar
WORCESTER	Sherriff Street, Worcester WR4 9AB	The production of concrete or mortar
WREXHAM	Llan-Y-Pwll, Holt Road, Wrexham LL13 9SA	The production of concrete or mortar
YEOVIL	Buckland Road, Pen Mill Industrial Estate, Yeovil, Somerset BA21 5EA	The production of concrete or mortar

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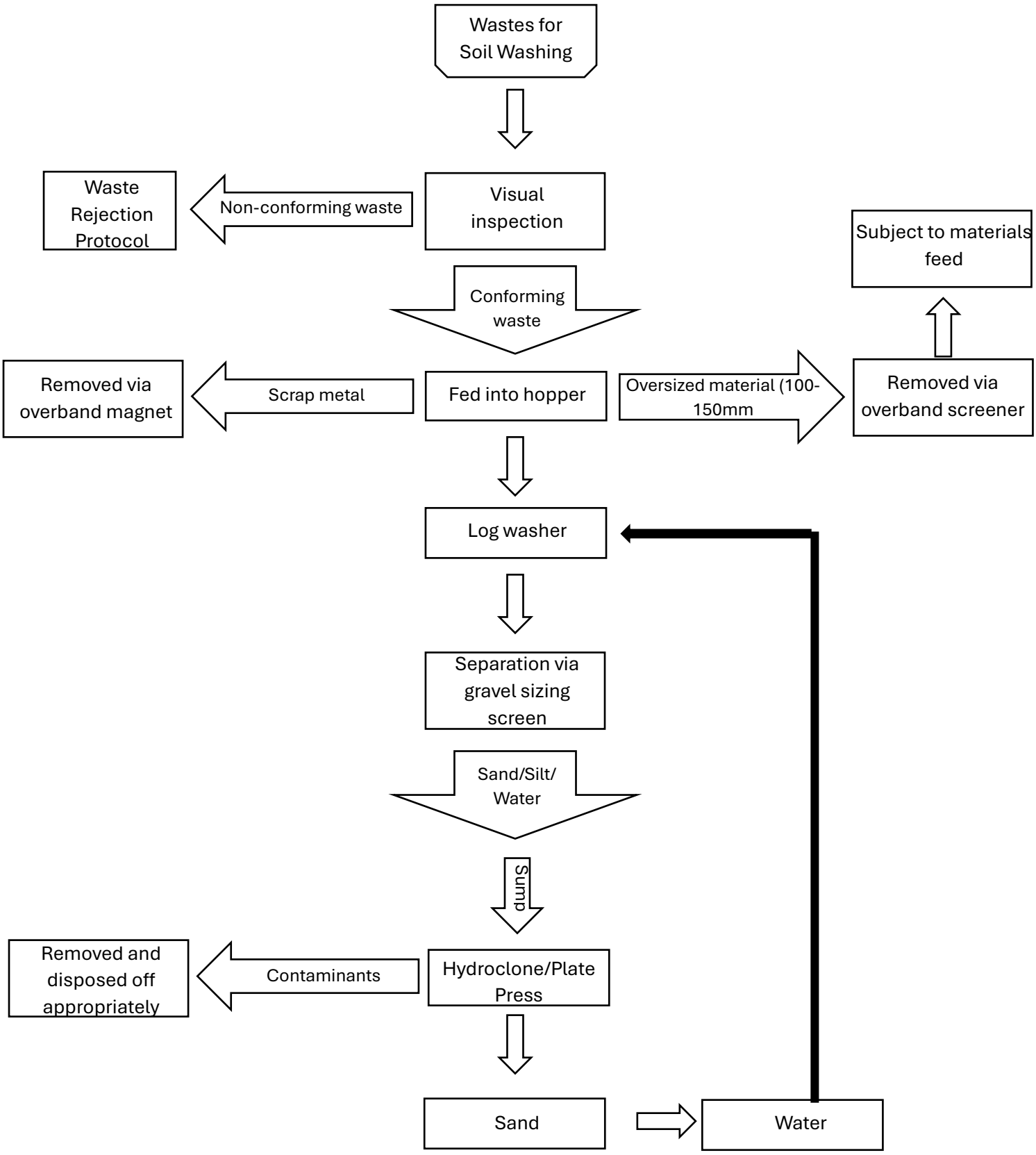
Location	*Address*	*Activity*
YORK	Outgang Lane, Osbaldwick, York YO19 5UP	The production of concrete or mortar

Appendix C – Process Flow Diagrams

Soil Washing Process Flow Diagram



Physical Treatment Process Flow Diagram