E07
Construction Environmental Management Plan

Interchange 26,
Cliffe Hollins Lane
Oakenshaw
Bradford
BD12 7EZ

Issue/revision	Revision 1	Revision 2		
Remarks	First Issue	2nd Issue		
Date	28/06/2021	07/12/2021		
Prepared by	Gareth Orchard	Gareth Orchard		
Signature				

Construction Environmental Management Plan

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Interchange 26, Bradford

Construction Environmental Management Plan

1 INTRODUCTION

1.1 This Construction Environmental Management Plan has been prepared in response to a request from Kirklees Council to ensure that the potential impacts that may arise from the construction of the proposed development are actively managed and minimised. The actions set out in this plan are intended to act as a guide and a tool for anticipating, recording and ameliorating any impacts that may arise.

1.2 It is anticipated that the Construction Management Plan will evolve as the project progresses to ensure that its content reflects the current construction programme. Each revision of the plan shall be submitted to Kirkless Council for its prior written approval to any changes unless they are urgently necessary in the interests of health and safety, or pollution control.

1.3 The recommendations for the control of noise and vibration on construction and open site in the approved code of Practice BS 5228 will be adopted.

2 ENVIRONMENTAL POLICY

2.1 A copy of Winvic Construction Limited's Environmental Policy Statement and ISO 14001 Certificate is provided in **Appendix A** of this report.

2.2 Winvic Construction Limited recognises the environmental impacts associated with this project and is committed to continually improving its environmental performance. The policy statement sets out the aims of the environmental plan for the construction of the proposed development of Interchange 26, the various aims are summarised below:

- To meet the requirements of all relevant environmental legislation, agreements, authorisations and commitments.
- To ensure that all environmental undertakings and obligations of Winvic Construction Limited are fulfilled.
- To adopt working practices that will achieve good environmental practice on site.
- To ensure that sub-contractors and suppliers are aware of the environmental constraints and opportunities of the site, and follow any necessary procedures in order to ensure good environmental practice.
- To identify the responsibilities of staff and contractors in achieving good environmental practice on site.
- To mitigate the effects of the construction works on businesses, highway users and the general public.

- To assist in the development of the company environmental management system, not only for the requirements of this project but for future use.

2.3 All personnel are required to understand and implement the requirements of this Construction Environmental Management Plan.

3 ENVIRONMENTAL MANAGEMENT SYSTEM

3.1 The principle requirement of the Construction Environmental Management Plan for the Construction Phase of the project is to provide a management framework to address all the environmental aspects identified for the construction of the proposed development of Tungsten, Interchange 26, to ensure that the obligations set out in this Construction Environmental Management Plan are implemented, an Environmental Co-ordinator (including Community Liaison) will be appointed by Winvic Construction Limited. The Environmental Co-ordinator will be based on the site and will act as focal point for the distillation of the contractor's responsibilities with respect to the environment and for queries/complaints from the controlling authorities and general public. The duties required of the Environmental Co-ordinator are set out below.

Environmental Roles and Responsibilities of the Environmental Co-ordinator

3.2 The Environmental Co-ordinator is responsible for all environmental activities on the project and will report to the Operations Director. The duties involve the following:

- Overall management of the environmental component of the project.
- Manage day to day activities to ensure significant environmental effects are avoided.
- Review and update the site Construction Environmental Management Plan.
- To act as the main point of contact between the regulatory authorities (Environment Agency and Local Authorities) and the project on environmental issues.
- Liaison with the ecological consultant to the project.
- To act as the main point of contact between the local populace and the project.
- Development and delivery of environmental training (induction and toolbox talks) for site personnel and sub-contractors.
- Ensure Best Practice is promoted at all times.
- Assisting with the development of procedures that highlight the emergency response to environmental incidents.
- Management of the monitoring programme, including noise, dust and water quality.
- Environmental incident monitoring and reporting.

The Environmental Co-ordinator is Gareth Orchard (Project Manager) contactable on 07541 688097, as the site based representative. Both will be involved with the construction works throughout the project.

Assessment of Significant Environmental Aspects

3.3 The environmental aspects identified should be evaluated in terms of significance to ensure that resources are targeted appropriately and effectively. The environmental aspects determined to

be of most significance are the activities of the project that require managing and should be subject to improvement in performance.

3.4 An Environmental Aspects Register is contained within the Winvic Environmental Management System which will be available for inspection on site at all times and will be structured in the following way.

Environmental Aspects Register						
Activity	Aspect	Impact(s)	Legislation	Significance	Management response	Comments

Legal Requirements

3.5 For each significant environmental aspect the relevant applicable environmental legislation and regulations will be identified. A complete and up to date legal Register is contained within the Winvic Environmental Management System.

4 PROJECT SPECIFIC MEASURES

4.1 This chapter of the Construction Environmental Management Plan contains details of the measures to minimise the potential effects from the construction works, which will be implemented throughout the works. It is envisaged that this Construction Environmental Management Plan will be a live document that will be updated as necessary to include consideration of evolving aspects of the construction works.

4.2 Each revision of the Construction Management Plan shall be communicated to Kirkless Council. Wherever possible, amendments to the plan shall be discussed with prior to incorporation into the document.

4.3 The full programme of works for the construction of the proposed development is available and key dates highlighted in order to show critical areas of the development.

Consideration and Responsibility

4.4 The Project will be registered with the **Considerate Constructors Scheme**. All works will be carried out with positive consideration towards our neighbours and the environment. Works that are likely to cause an impact to our neighbours will be advertised through a mechanism to be agreed with Kirklees Council . This mechanism may be door to door leafleting of nearby properties, advertising in a local paper, posters in prominent locations etc. and will address issues relating to programme, activities and likely effects, duration and points of contact.

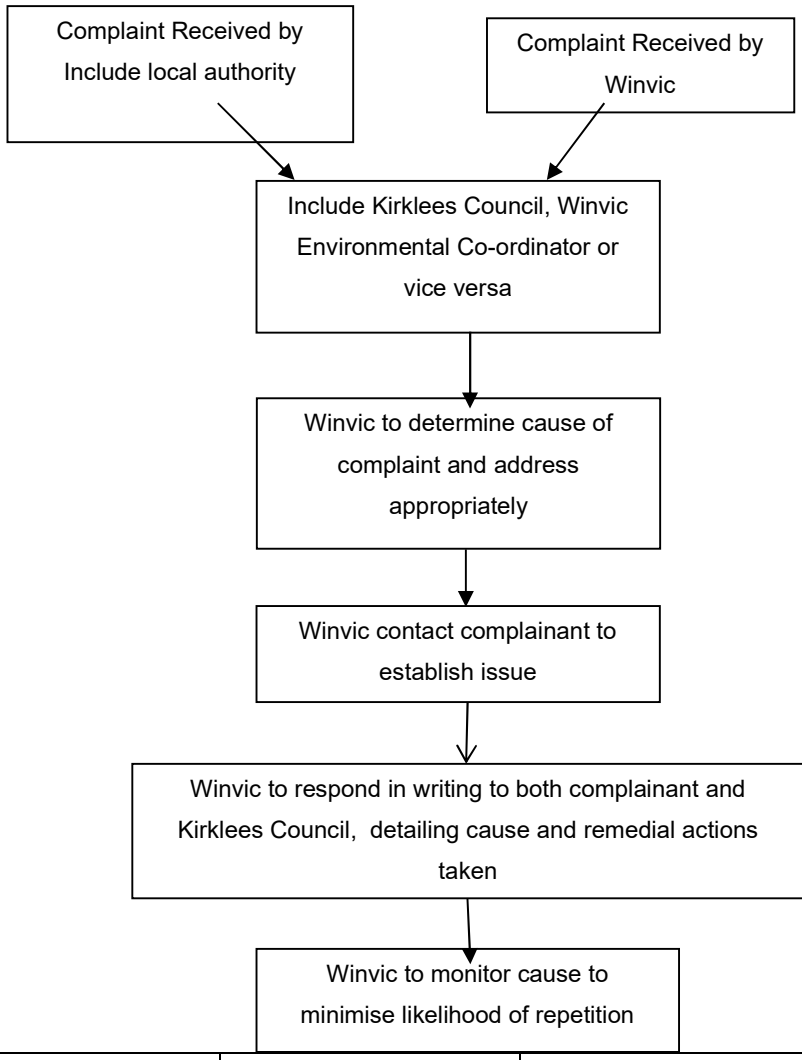
4.5 A communications protocol will be prepared and agreed prior to commencement of construction with Kirklees Council & will form an addendum to this Construction Environmental Management Plan.

4.6 Winvic Construction Limited will ensure that all site personnel, specialist sub-contractors, delivery drivers and any other persons working on or visiting the site fully understand and implement the obligations of the Construction Environmental Management Plan and monitor their compliance with it. This will be achieved by including the Construction Environmental Management Plan and its obligations in the safety induction that everyone attending on site will attend. The inductees will be required to sign a statement stating that they have understood and will abide by the content of the Construction Environmental Management Plan.

4.7 Gareth Orchard as representative of Winvic Construction Limited will act as a central contact point for discussions with both Kirklees Council & other interested parties, including local businesses. Details of how to contact Gareth Orchard will be lodged with the client & representatives and advertised through a suitable mechanism to be agreed with Kirklees Council.

4.8 Should any complaints arise during the course of the works, a broad procedure for dealing with them is set out in Figure 1 below.

4.9 **Figure 1 Complaints Procedure**



4.10 Contact details for Kirklees Council and the Winvic Environmental Co-ordinator are given below:

Kirklees Council, Environmental Health Department 01484 414739

Winvic Construction, Project Manager, Gareth Orchard

Winvic Environmental Co-ordinator will be Gareth Orchard. Project Manager (Site based) will be Gareth Orchard.

Waste

4.10 As part of the Construction Environmental Management Plan minimising and reducing waste during the construction stage is a key priority and the following core principles will be maintained throughout the construction process:

- Toolbox briefing sessions.
- Adopting good on-site working practices.
- Reducing wastage on site.
- Ensuring adequate waste storage facilities are provided.
- Ensuring adequate security measures are in place.
- Appropriate waste disposal routes.

The above will all be managed and recorded in the Winvic Site Waste Management Plan-SWMP (Pro-forma plan is contained in Appendix D)

4.11 Further details of good site practices include the following:

- All construction personnel including sub-contractors will be briefed through toolbox talks regarding the importance of minimising, segregating and recycling wastes during the construction process.
- Guidance will be provided on the segregation of certain waste streams such as aggregates, excavated materials, metal, wood, cardboard and polythene packaging waste.
- The objectives of the toolbox talks will be to maximise opportunities for recycling and minimise waste to landfill.
- Deliveries where possible, will be on a 'just-in-time' basis to minimise potential damage and wastage of materials.
- Clearly labelled waste skips will be provided at the site for the segregation of waste streams for recycling and for general waste to be disposed of to landfill. The skips will be stored in a secure location on-site to prevent waste nuisance issues arising.
- Fuels, oils and chemicals will be stored in appropriate containers within secure bunded compound constructed of an impermeable hard standing and in accordance with good site practices and Environment Agency guidelines (Pollution Prevention Guidance Note 6 'Working at Construction and Demolition Sites').

- Construction materials will be stored in a secure compound to prevent the potential for vandalism and theft of material.
- Segregated waste for recycling will be removed from site by a licensed contractor to an appropriate Materials Recycling Facility (MRF).
- Wastes that cannot be recycled will be removed from site by a licensed waste contractor to an appropriate licensed landfill facility ensuring adherence to the Environmental Protection (Duty of Care) Regulations.
- Waste will only be placed in the approved locations to minimise litter and pollution.

4.12 In summary, the following construction best practice (Construction Industry Research and Information Association – 'Environmental Good Practice On Site' will be followed:

Ordering	**Delivery**
Avoid: - • Over ordering (order "just-on-time") • Ordering standard lengths rather than lengths required (e.g. Plasterboard) • Ordering for delivering at the wrong time (update programme regularly)	*Avoid:* - • Damage during unloading • Delivery to inappropriate areas of the site • Accepting incorrect deliveries, specification or quantity
Storage	**Handling**
Avoid: - • Damage to materials from incorrect storage • Loss, theft or vandalism through secure storage and on-site security	*Avoid:* - • Damage or spillage through incorrect or repetitive handling

4.13 The Environmental Co-ordinator will liaise with the ecological consultant to the project to ensure that the surrounding environment is respected throughout the works. This will be reinforced through the toolbox talks, which will include an ecology-specific briefing. This briefing will be drafted by the ecological consultant to the project (in accordance with the **Ecological Survey** submitted with the Planning Application) and agreed as appropriate with Kirklees Council.

4.14 Any accidental contamination of the ground or surface water will be cleaned-up in accordance with the appropriate Environment Agency guidelines and removed off-site by the appropriate licensed waste contractor.

4.15 Any protected species identified during the works will be notified to the ecological consultant to the project, who will advise an appropriate course of action, if necessary, in conjunction with Kirklees Council.

4.16 . Until an appropriate course of action is identified, no further works will take place in the area identified as having a protected species.

4.17 Surplus material, rubbish etc. shall not be allowed to accumulate on the site or over-spill to the surrounding environment.

Noise

4.18 Construction noise emissions have been identified by Kirklees Council as a potential source of annoyance to the local population. Specific consideration will be given to the Neighbouring residential properties situated to the rear and side elevations of the site,

4.19 Working Hours; the works carried out on site will be from the hours of 07:30 to 18:00 hours Monday to Friday, 08:30 to 13:00 hours on Saturdays.

4.20 Standard Construction Plant / Equipment will be used during all phases of the construction process.

4.21 Typical Plant will include Excavators, dozers, crushing machine, Cranes, Dumpers, Scissor Lifts, and Cherry Pickers etc.

4.22 To establish the noise emission levels during the works, a programme of noise monitoring will be carried out for the first week of each phase of works to determine the noise levels received at the closest receptors. The measured noise levels will be communicated to Kirklees Council fax or email.

4.23 The principal objectives of the monitoring will be to identify where additional control measures are required, or where those measures have not been put in place. All measured noise levels will be recorded and retained on-site for the duration of the construction programme.

4.24 The monitoring locations will be agreed in advance with Kirklees Council along with the proposed monitoring periods. and when requested by Kirklees Council

4.25 On site noise levels will be monitored regularly, particularly when changes in process are required or in response to complaint. The monitoring will be in accordance with the guidance set out in Annex E of BS5228

4.26 Before commencing each phase of works, detailed noise predictions will be submitted to Kirklees Council to provide an indication of the likely noise emission levels. These predictions will include as a minimum the proposed working hours, the proposed working locations and the noise levels predicted at the closest receptors

4.27 The measured noise levels will be compared to the predictions on an on-going basis to further refine the prediction process.

4.28 Where practical and where there is a positive environmental benefit, use will be made of temporary spoil heaps to shield the surrounding receptors from the construction works. For example, this may be utilised during the earthworks and site preparation phases of the works.

4.29 All plant items will be properly maintained and operated in accordance with the manufacturers' recommendations, so that excessive noise is minimised. Rattling noises will be controlled by tightening loose parts and by fixing resilient materials between the surfaces in contact.

4.30 Plant known to emit noise strongly in one direction should, where possible, will be orientated so that the noise is directed away from noise sensitive areas.

4.31 Acoustic covers will be kept closed when engines are in use and idling. Compressors that have effective noise enclosures and are designed to operate when their access panels will be used.

4.32 Materials will be lowered where practicable and not dropped.

4.33 Stationary plant such as compressors and generators will be positioned away from sensitive locations within the confines of the operational use of the equipment.

4.34 Where reasonably practical, noisy plant or processes will be replaced by less noisy alternatives (BPM). Annex B of BS5228: Part1:

Maintenance

4.35 Regular and effective maintenance of machinery and noise control measures, by trained personnel is essential and will assist in reducing potential noise. Increases in plant noise are often indicative of future mechanical failure and will be responded to be the Environmental Co-ordinator.

4.36 Noise caused by vibrating machinery having rotating parts can be reduced by proper attention to balancing.

4.37 Frictional noise will be reduced by tools being well maintained and kept sharp.

4.38 Lubrication of parts will also reduce noise.

Training

4.39 All employees and contractors will need to be informed about the need to minimise noise. As part of on-site training they will be advised regularly of the following:

- The proper use and maintenance of tools and equipment.
- The positioning of machinery on site to reduce the emission of noise to the neighbourhood and to site personnel.
- Avoidance of unnecessary noise when carrying out operations, and when operating plant and equipment.
- Using and maintaining measures adopted for noise control.
- By reporting defective noise control equipment.
- Managers and supervisors recognising the need for employees to make proper use of measure to minimise noise.

- Machines in intermittent use will be shut down in intervening periods of non-use or, where this is impracticable, they will be throttled down to a minimum.

4.40 Where practicable white noise reversing alarms will be fitted to all mobile plant.

Emissions to Air

4.40 Finished ground/road surfaces will be set down as early as is feasible to seal the ground to ensure that the generation of dust is kept to a minimum.

4.41 Surfaced and unsurfaced site access roads will be kept in good order and will be watered as necessary using a water bowser. This will be monitored on a daily basis during hot, dry weather.

4.42 A wheel wash facility will be utilised as required on site.

4.43 A water supply will be maintained across the site to ensure that dusty surfaces and activities can be damped as appropriate.

4.44 There will be no burning of any material anywhere on-site. Anyone caught breaching this will be disciplined appropriately.

4.45 Any exposed soil or material stockpiles will be appropriately damped, if necessary using sprinklers and hoses. A wind-sock will be located on the site and where this indicates a prevailing wind toward sensitive receptors, particular attention will be given to the damping of exposed soil and material stockpiles.

4.46 All areas of completed earthworks that are not subject to subsequent works such as drainage will have a stone capping layer placed on them, which will be covered with permanent building works.

Areas not covered with permanent building works will be covered with topsoil and vegetated as soon as is practicable.

4.47 Screening monitoring through a visual inspection of the site perimeter will be carried out weekly during dry periods to check for dust deposition (evident as soiling and marking) on vegetation, cars and other objects.

4.47 The programme of works has been sequenced such that any deliveries to site will either be onto a stone capping layer or hard surfacing again minimising the risk of any mud or debris being deposited on the Public Highway. The surrounding area will be monitored at all times and if necessary and as required Road Sweeping plant will be on hand to deal with any debris/mud on the Highway.

Vehicles

4.48 Furthermore, any mud on the site access road will be assessed on at least a daily basis. Road sweeping will be undertaken as necessary should it be required (A wheel wash is not a practical solution at the end of the access road given there is insufficient space and no water supply available)

Vehicle Routing

4.49 Care has been taken during the design process and thought has been given to minimise the need for HGV movements.

4.50 The proposed route to site will be from J26 M62 via Bradford Road, turning right into Mill Carr Road and Right again into Cliff Hollins Lane, the site entrance is on the right. When leaving site, the route will follow the above in reverse.

4.51 The proposed routing map is contained in Appendix B.

4.52 This route will be communicated to all Specialist Subcontractors and Material Suppliers.

4.53 Where appropriate, temporary signs will be erected. This will ensure that drivers are directed to the site and do not inadvertently use minor local roads.

Lighting

4.54 During the construction phase the temporary site lighting will adhere to the best practice guidance outlined in Guidance Notes for the Reduction of Light Pollution (Institution of Lighting Engineers, 2000) including the following:

- Lighting will be switched off when not required for safety or security;
- Temporary lighting will be directed into the site away from residential areas;
- Wherever possible lighting will be directed downwards to illuminate the target area to reduce spill light to a minimum;
- Specifically designed lighting equipment will be installed to minimise the spread of light near to or above the horizontal;

- To keep glare to a minimum, the main beam angle of all lights directed towards any potential observer will be kept below 70 degrees. Higher mountings used for the lighting will lower the main beam angle reducing potential glare;
- Wherever practicable, floodlights with asymmetric beams will be used.

APPENDIX A

Winvic Environmental Policy and ISO 14001Certificate

POLICY STATEMENT

Winvic Construction Limited is conscious of its responsibility for the protection and improvement of the environment, and is committed to minimising environmental impact throughout its sphere of activities.

It is the aim of Winvic Construction Limited to strive for continual improvement, also to carry out its operations, according to the procedures given herein, to promote good environmental practice, whilst as a minimum, complying with all relevant environmental law and other requirements.

Winvic Construction Limited will establish and review challenging environmental objectives and targets through implementation and operation of an Environmental Management System to conform with BS EN ISO 14001:2015.

Management and supervisory staff are responsible for the implementation of this policy throughout the Company, ensuring environmental protection is given priority at all stages of operations.

All employees and sub-contractors are expected to co-operate with the company in fulfilling its responsibilities, and their contributions are increased through awareness training and implementation of operational procedures.

Winvic Construction Limited will ensure that sufficient facilities, information, instruction training and supervision are provided, as is necessary to minimise environmental impact and promote sustainability.

Mr Ian Goodhead the Director having particular responsibility for environmental procedures and he will report to the board on such matters. Reference should be made to Mr Ian Goodhead in the event of any difficulty arising in the implementation of this policy.

This policy, and associated procedures, will be formally reviewed annually within the overall management review system, though on exception, changes may be implemented at other times as required by legislative change.

Signed:

Ian Goodhead HSEQ Director 02.03.2021

Certificate of Registration

Certificate Number **EMS UK/01/0009380928**

The Management System of

Winvic Construction Ltd

of

Brampton House, 19 Tenter Road, Moulton Park, Northampton, NN3 6PZ

has been Assessed and Certified as meeting the requirements of

ISO 14001:2015

Scope of Registration

The design and project management of construction projects for the private sector and commercial organizations

Date of Initial Assessment	18/09/2009
Date of Registration	17/09/2009
Date Re-Issued	17/09/2018
Date of Expiry	17/09/2021

Authorised by

on behalf of ACS Registrars Ltd

Whilst all due care was exercised in carrying out this assessment, ACS Registrars Ltd accepts responsibility only for proven gross negligence. This certificate remains the property of ACS Registrars Ltd, to whom it must be returned upon request. Certificate validity may be verified upon request.

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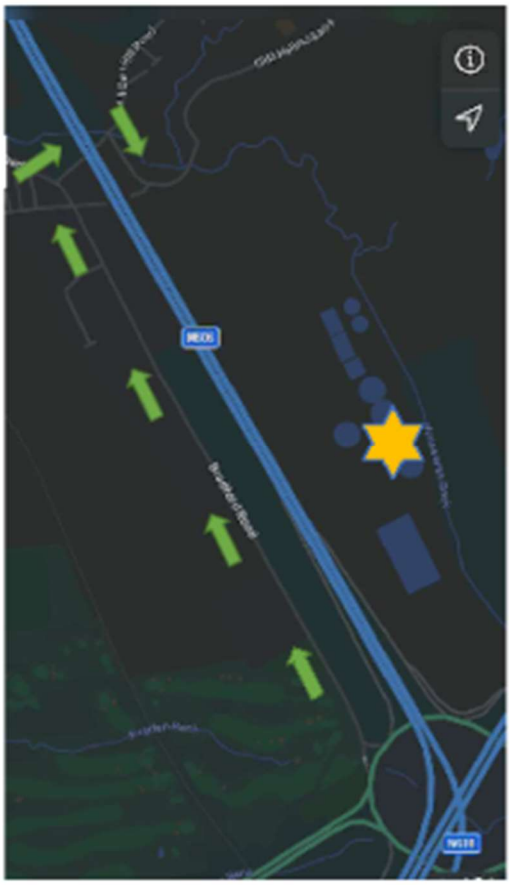
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APPENDIX B

Construction Traffic Plan



Leave M62 at Junction 26 (M606 Bradford) – Do not go onto the M606 – Follow signs for Low Moor



Follow Bradford Road North towards Bradford

Take the 2nd Right After the Church in Mill Carr Road

Turn Right immediately after going under the Motorway bridge into Cliff Hollins Lane

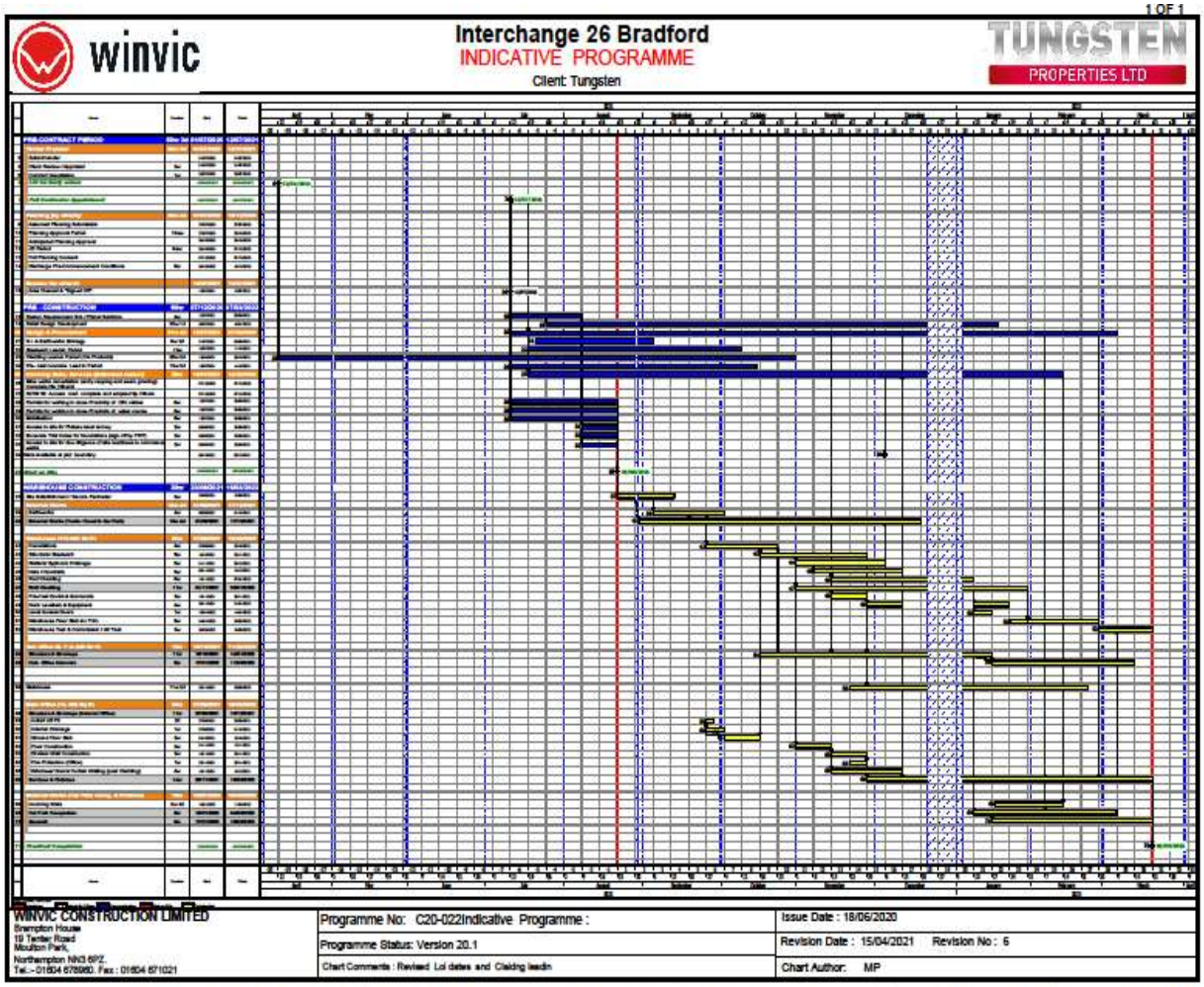


Turn right into the former waste water treatment works before the hump back bridge

DO NOT GO OVER THE WEAK BRIDGE

APPENDIX C

Construction Programme and Delivery



C:\Users\MikeP\OneDrive - Winvic Construction\Documents\Tenders\06 Tender & Cost Plans 2020\C20-022 - Interchange 26, Bradford\C20-022 - Interchange 26 Bradford Indicative Programme rev 6.pp

APPENDIX D

Site Waste Management Plan

SWMP01

5 SITE WASTE MANAGEMENT PLAN

Interchange 26, Bradford

Note the SWMP is to be updated at least every six months including the types and quantities of waste that have been re-used, recycled recovered or sent to landfill

DOCUMENT REVIEW REGISTER			
Rev	Date	By	Description of Modification
01	28/06/21	GO	Initial draft version.

This Site Waste Management Plan (SWMP) is an important tool to allow Winvic to improve our environmental performance, meet regulatory commitments and help to reduce waste disposal costs. Hence, the aim of this SWMP is to determine the waste types and amounts to be produced during design and construction and to identify appropriate waste management controls.

For further guidance please refer to Winvic Environmental Policy E01 and Environmental Management System E02

PROJECT INFORMATION	
CLIENT: TUNGSTEN	**PRINCIPAL CONTRACTOR: Winvic**
PROJECT TITLE: INTERCHANGE 26, BRADFORD	**CONTRACT NO: P21-0??**
6	
PROJECT ADDRESS: **CLIFFE HOLLINS LANE** **OAKENSHAW, BRADFORD**	**CONTRACT VALUE: £10,000,000 GBP** **PROJECT START DATE: 23/08/2021**
FOOTPRINT STRUCTURE (m^2): 19,947	**PROJECT END DATE: 18/03/2022**
FOOTPRINT SITE (m^2): 50990	
FLOOR AREA [ALL FLOORS] (m^2): 21368	**GIA: 19,947M2**

WASTE MANAGEMENT PROJECT ADMINISTRATION		
PERSONS LEGALLY REQUIRED TO BE IDENTIFIED [SWMP REGULATIONS 2008 SECTION 6(1)]		
POSITION	**NAME**	**CONTACT DETAILS**
7 CLIENT:	**TUNGSTEN**	**C/O Kevin McBean, Goodrich LLP**
8 PRINCIPLE CONTRACTOR:	**9 WINVIC CONSTRUCTION LTD** **10**	**Brampton House 19 Tenter Road Moulton Park Northampton NN3 6PZ (01604) 678960**
SWMP DRAFTER:	**Trevor Swailes**	**As above**

DECLARATION:	Winvic will take all reasonable steps to ensure that: • All waste from Interchange 26, Bradford is dealt with in accordance with the waste duty of care in section 34 of the Environmental Protection Act 1990 and the Environmental Protection (Duty of Care) Regulations, 1991; and • Materials will be handled efficiently and waste handled appropriately.

DOCUMENT CONTROL				
VERSION	**DATE**	**PERSON RESPONSIBLE FOR SWMP**	**COMPANY & POSITION**	**PROJECT STAGE**
1	180618	Trevor Swailes	Winvic, HSEQ manager	construction
2				
3				
4				
5				

WASTE MANAGEMENT CONTRACTOR DETAILS		
DETAILS OF THE PEOPLE / ORGANISATION REMOVING WASTE FROM YOUR SITE [1]		
NAME OF REGISTERED CARRIER	**REGISTRATION NUMBER**	**ADDRESS OF REGISTERED CARRIERS PRINCIPLE PLACE OF BUSINESS**
INSERT NAME OF REGISTERED CARRIER	**INSERT WASTE REGISTRATION NUMBER**	**INSERT ADDRESS OF REGISTERED WASTE CARRIER**
DETAILS OF WASTE MANAGEMENT FACILITY [1]		
NAME OF REGISTERED WASTE MANAGEMENT FACILITY	**LICENCE REFERENCE NUMBER**	**ADDRESS OF REGISTERED CARRIERS PRINCIPLE PLACE OF BUSINESS**
INSERT NAME OF WASTE MANAGEMENT FACILITY	**INSERT REFERENCE NUMBER**	**INSERT ADDRESS**

[1] INPUT DETAILS FOR ALL WASTE CARRIERS AND MANAGEMENT FACILITIES IF MORE THAN ONE USED

INSERT COPY OVERPAGE OF THE FOLLOWING CERTIFICATES

- CERTIFICATE OF REGISTRATION UNDER THE CONTROL OF POLLUTION [AMENDMENT] ACT 1989

- ENVIRONMENTAL PROTECTION ACT 1990 WASTE MANAGEMENT LICENCE

KEY WASTE PRODUCTION				
WASTE CATEGORY & TYPES	**EWC/LoW CODES**	**ENABLING WORKS [INCLUDING DEMOLITION]**	**CONSTRUCTION WORKS**	**FORECAST PROVIDED**
		ESTIMATED QUANTITY	**ESTIMATED QUANTITY**	
	EWC/LoW	**TONNES**	**TONNES**	
INERT WASTE				
Brick / Block	17 01 02	0		
Blockpaving	17 01 06	5T		
SUB TOTAL				
NON HAZARDOUS WASTE				
Timber	17 02 01	10T		
Paper/Cardboard	15 01 01	5T		
Welfare canteen Waste	20 03 01	20T		
General Waste	17 09 04	125T		
Sub soil off site	17 05 04	125T		
Shrub's / Bush	20 02 01	5T		
Plastic	17 02 03	5T		
Metal	17 04 05	20T		
SUB TOTAL				
HAZARDOUS WASTE				
Human Effluent	18.01.04	30T		
Plasterboard	17 06 02	5T		

SUB TOTAL				
TOTAL VOLUMES				

BREEAM

Where projects are being assessed against the requirements of BREEAM, the following targets will be achieved:

- Amount of Construction Waste generated to be **≤ 1.9 tonnes per 100m^2 (gross internal floor area)**
- The following percentages of non-hazardous construction (on-site and off-site manufacture/ fabrication in a dedicated facility), demolition and excavation waste (where applicable) generated by the project are to be diverted from landfill:
    - **Non-Demolition Waste: 90% diverted from landfill**
    - **Demolition Waste: 95% diverted from landfill**
    - **Excavation Waste: 95% diverted from landfill**

WASTE TRANSFER NOTES:

ALL WASTE TRANSFER NOTES ARE HELD CENTRALLY AT WINVIC HEAD OFFICE

SITE MUST ENSURE ALL WASTE TRANSFER NOTES CONTAIN THE FOLLOWING INFORMATION:

- **DUTY OF CARE NUMBER**
- **WASTE CARRIER REGISTRATION NUMBER**
- **DRIVER NAME [PRINT & SIGNED]**
- **DESCRIPTION OF WASTE INCLUDING EWC CODE**
- **DATE OF WASTE TRANSFER**
- **DETAILS OF CURRENT HOLDER OF WASTE [SITE ADDRESS]**
- **DETAILS OF WASTE DISPOSAL SITE**
- **CUSTOMER SIGNATURE**

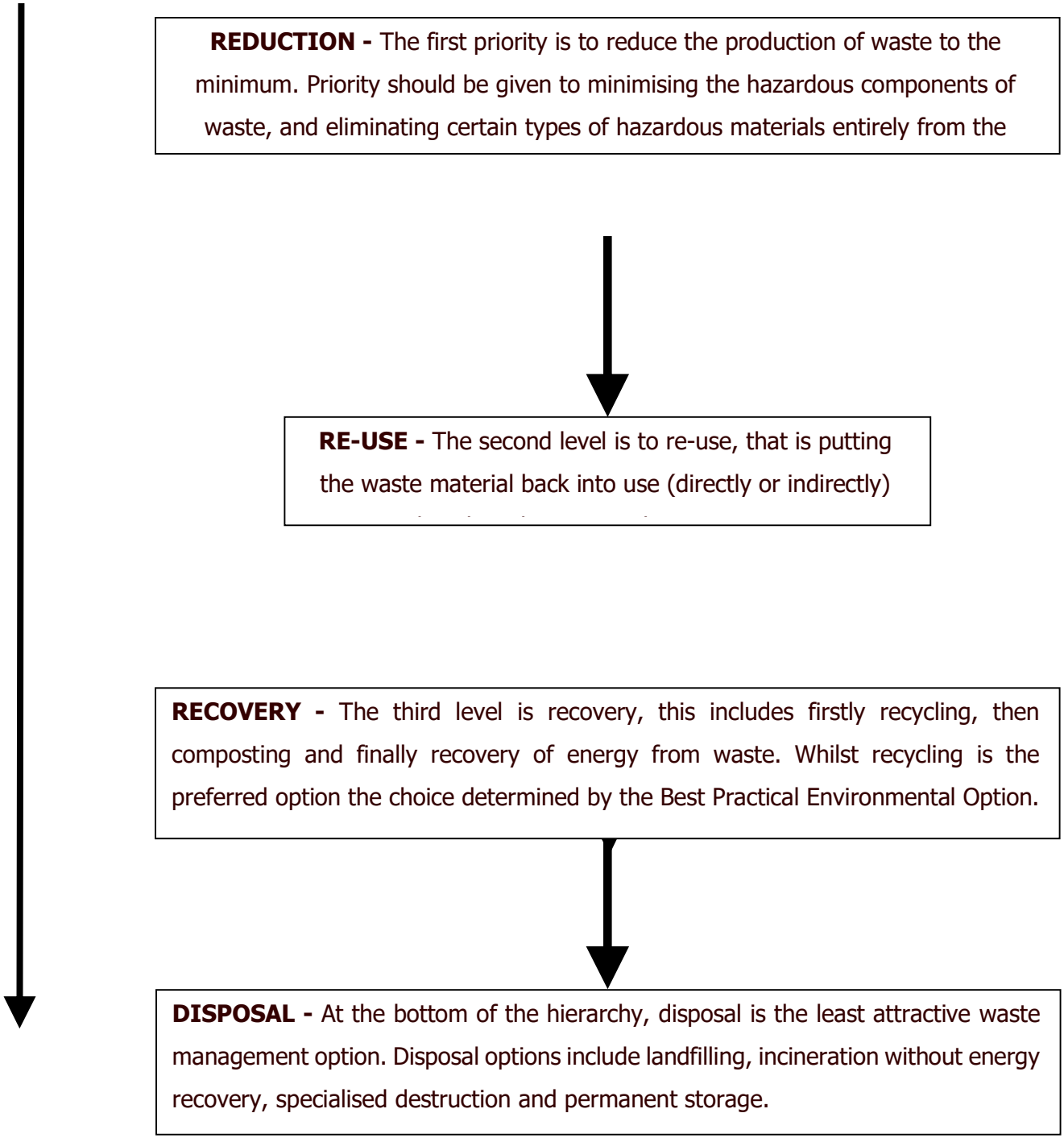
SITE WASTE MANAGEMENT REPORT

INSERT OVERPAGE COPY OF MONTHLY REPORTS ISSUED BY WASTE MANAGEMENT CONTRACTOR.

The Waste Hierarchy

Project waste will be dealt with in accordance with the waste hieracrchy.

Best Environmental Option



Construction, Demolition and Excavation Waste Management

General Good Practice Recommendations

The SWMP will incorporate as many as possible of the following good practice measures to help ensure waste is managed effectively during construction.

During the construction phase of the development, the SWMP should be updated on a regular basis (where required) detailing how waste is managed during the construction project.

The SWMP should be retained for at least 2 years after completion of the project centrally at Winvic Head Office.

This SWMP includes:

- Detail on compliance with legislative requirements
- Details on the process to control risks relating to materials and waste on site
- A system to help make cost savings by better management of material supplies, storage and handling, and better management of the recovery and disposal of waste
- Demonstration how waste can be managed to minimise costs and risks.

Updates to the SWMP

Updates should be undertaken as often as needed during the construction stage of the proposed development to give an accurate record of how work is progressing against the waste quantity estimates.

For waste that is reused or recycled on-site, the SWMP should be updated to describe how much of the estimated volume or tonnage has been processed.

For waste that is removed from the proposed development, the SWMP should be updated to record the identity of the person removing the waste; the type (and quantity) of waste; and the site to which it has been taken.

At the end of the project the completed SWMP, containing records of all waste management actions, should be reconciled against what was planned before the work commenced. Regular updating during the proposed works phase should make this a relatively straightforward process.

The Site Manager is responsible for:

- Promoting awareness of the SWMP among the work force
- Waste planning including identification of types and European Waste Catalogue (EWC) codes of waste anticipated
- Monitoring and reporting site waste
- Monitoring and target setting of key waste streams via waste contractor
- Monitoring the effectiveness of the building level SWMP

- Forming a good working relationship with the waste management contractor(s)
- Encouraging suggestions for better waste management on-site
- Reviewing and regularly updating SWMP.

Roles and Responsibilities of the Project Team

Project Team Member	Key Roles	Main Responsibility	Other Roles
Client	Promote waste minimisation	Duty of Care	Identification of Waste Reduction Opportunities
	Insist on good practice from all other team members	Insistence on Good Practice	
	Ensure that all hazardous waste has been identified prior to construction		
Architect	Consider design options	Duty of Care	Identification of Waste Reduction Opportunities
	Promote use of reclaimed elements	Reducing Waste Production by Design	
	Reducing 'bespoking'		
Main Contractor	Develop site specific waste strategy, implement and communicate to all parties	Health and Safety	Hazardous Waste Identification and Management
	Monitor implementation		
	Work with project team		
	Drive segregation of waste arisings	Development of the Waste Strategy	
	Facilitate on-site storage compounds/ Treatment of segregated materials		
	Designation of working areas for waste activities		
	Reduce waste being brought onto site as packaging etc.	Management of Onsite Processes and Programmes	
	Ensure appropriate storage of waste and containers on site		
	Keep proper records of all waste produced/reused/sent off-site		
	Keep appropriate off-site transport in line with local regulatory requirements		
	Ensure appropriate off-site transport in line with local regulatory requirements	Record Keeping and Duty of Care	
	Identify and confirm all destinations for waste leaving the site		
Sub-Contractors	Development of method statements for activities on-site	Duty of Care	Assist in Ensuring On-Site Practices are Safe and

		Production of Method Statements	Would Not Impact Negatively on the Environment
	Liaise with Main Contractor and agree way forward	Ensure All Activities Under Their Direction Control are Managed Appropriately	Ensure that Waste Area is Properly Maintained
Site Operations	Question Unsatisfactory Practices On-Site	Duty of Care	Assist in Ensuring On-Site Practices are Safe and Would Not Impact Negatively on the Environment
	Follow Instructions as Provided	Ensure All Activities Under Their Direction Control are Managed Appropriately	Ensure that Waste Area is Segregated as Appropriate

Construction Activities Recommendations

Considerate Constructors Scheme (CCS)

Winvic register all their site against the CCS Scheme which is designed to encourage best practice beyond statutory requirements. Waste management is a key focus and on-site considerations include:

- How waste is avoided, reduced, reused and/or recycled
- Whether there is a SWMP and how this is monitored
- What type of feedback is received (if any) as to how much waste on-site is diverted from landfill
- It is expected that registered construction sites work in an environmentally conscious, sustainable manner.

Site Preparation and Earthworks

Winvic prepare a Construction Environmental Management Plan before work commences for the proposed development. This outlines a series of strategies, standards, best practice techniques and procedures that will be observed through the construction process in order to ensure compliance with environmental legislation and regulations.

This helps ensure minimal disruption and nuisance from the construction process to the existing communities/workforce in the surrounding area.

Site Clearance has been carried out by other in advance of our attendance to the site.

Where possible, all clean material excavated on site will be reused. Where this is not possible, such material will be removed by licensed waste carriers and sent for reuse at another development site or sent for disposal at appropriately licensed facilities (these are expected to be inert waste landfill sites). Any contaminated material that would require removal from the site would be collected by suitable waste carriers and sent for disposal at appropriately licensed hazardous waste facilities.

The Site Manager will monitor waste arisings and ensure waste to landfill is minimised to ensure the specified BREEAM targets are achieved. During the construction phase, the different waste streams and exact volumes will be monitored and recorded.

The procedures to prevent and reduce the generation of construction waste detailed in the following sub-sections will minimise the amount of waste produced as far as possible.

Target Setting

Targets have been set to ensure that a clear action plan is generated for the management of specified types and quantities of materials identified.

Recovery Rates

Winvic will ensure that minimum legal targets for recovery are met and exceeded upon.

The Packaging and Packaging Waste Directive (as amended) set minimum material-specific recycling targets:

- Glass: 60%
- Paper and Cardboard: 60%
- Metals: 50%
- Plastics: 22.5%
- Wood: 15%

The EC Waste Framework Directive has set a target to recover at least 70% of non-hazardous construction and demolition waste by 2020.

Raw Materials and Waste

Winvic confirm that the following recommendations are incorporated into all our projects and that the location and provision of raw materials and waste storage onsite is clearly labelled, identifying the materials that can be received. We will ensure that:

- The temporary site offices will retain all details relating to the SWMP, health and safety and waste management monitoring and reporting procedures
- Storage areas for raw materials and assembly areas for construction components will be located away from sensitive receptors
- Dedicated (labelled) skips will be provided for any waste that requires off-site disposal
- Any fuels, oils and chemicals will be stored in appropriate containers within secure bunded compounds in accordance with good site practice and regulatory guidelines and located away from sensitive receptors
- Clean, excavated material that cannot be reused on-site will be reused offsite where possible.

Effective and secure storage areas for raw materials will be provided onsite to prevent loss of material from damage, vandalism or theft. These measures will be supported by:

- Ensuring deliveries to the site are, as far as reasonably practicable, on a 'just in time' basis
- Provision of on-site security and installing temporary security fencing as necessary.

Implementation of good practice measures in terms of on-site storage and security practices will assist in reducing unnecessary wastage of material(s) and ensure that high standards are maintained throughout the development process.

Achieving Construction Waste Targets

Winvic will put in place is standard procedures for monitoring and minimising waste including:

Mechanisms to record waste stream quantities and types

- Any improvements in current working practices
- Procedures for handling and storing waste streams

- The available waste disposal routes used e.g. landfill, waste transfer stations.

All waste movements are summarised and reported on a monthly basis by the Site Manager (based on data provided by the licensed waste contractor) through the Winvic Contractor's Report document (reference Q50).

Legal Requirements

Under The Environmental Protection (Duty of Care) (England) (Amendment) Regulations 2003, all movements of waste from Winvic sites to a waste contractor that is collecting the waste requires a paper trail.

Most of the waste from Winvic sites is likely to be non-hazardous and Waste Transfer Notes will be completed for each movement of waste off site.

All transfer notes will be kept at Winvic's head office for the minimum statutory period.

Predicted Waste Streams

The predicted non-hazardous waste streams from Winvic sites are detailed on Page 5 above.

Waste and Recycling Storage

Waste storage facilities will be provided in the site compound. Waste containers and the space they are stored in will be:

- Of suitable capacity for the volume of waste
- Labelled to ensure wastes are stored correctly for recovery, reuse or recycling.

Where site restrictions do not allow for the provision of a permanent area for waste storage, the licensed waste contractor will collect waste containers(s) on a daily/weekly or other suitable frequency for the sorting of waste off site.

Responsibilities

The persons identified in the Document Control Table on page 3 above are responsible for the operation of the site waste management. This usually is Winvic's HSEQ and the Site Manager.

11 APPENDIX 1 – SWMP CHECKLIST; DESIGN PHASE

	Points to consider	Y / N (Initials)	Comment If 'Yes', what action have you taken / do you propose to take? If 'no', why not?
Design			
1	Where relevant, has permission to discharge to controlled waters been obtained from EA / SEPA?	N	It is not anticipated that any discharge of controlled water will be required.
2	Has agreement been sought from the sewage company for trade effluent discharge?	N	Human effluent waste is disposed into a septic tank
3	Have opportunities been considered for reducing the necessity for waste disposal? For example: • Can material cutting be minimised? • Is pre-fabrication an option? • Are construction materials durable i.e., Whole Life Costings? • Can the wastes remain on-site? • Can design avoid the removal of contaminated materials? • Can contaminated materials be treated on-site	Y	All materials have been calculated by Quantity surveyors to minimise excess. Wherever possible on site created waste will be reused or recycled Winvic have targeted stringent BREEAM standards for waste
4	Have opportunities been considered for reusing materials on-site? For example: • Can inert excavated materials be reused as fill for landscaping / noise barriers on site? • Can inert excavated materials created from other sites be reused at the main site (WML exemption required)? • Can excess materials be utilised locally or on other sites (WML exemption required)? • Can ground improvement techniques be used on excavated materials e.g. soil stabilisation - improvement of soil engineering properties with the addition of cement / lime? • Can materials be crushed on site for reuse? • Can recycled materials be used on site e.g. aggregates?	Y	Topsoils will be reused on site (where possible) Aggregates will be recycled (where possible)
5	Have opportunities been considered for re-use of materials off-site?	Y	Surplus materials will be used on other Winvic sites (where possible).
6	Have opportunities been considered for reprocessing of materials off-site?	N	Where non-inert material is taken off site, our licensed waste contractor will responsibly reprocess and recycle as
7	Has full consideration been given to the use of secondary and recycled materials?	Y	As part of the BREEAM process this has been undertaken (where possible)

Completed by:	Trevor Swailes	Position	HSEQ Manager

12 APPENDIX 2 – SWMP CHECKLIST; PROCUREMENT PHASE

	Points to consider	Y / N (Initials)	Comment If 'Yes', what action have you taken / do you propose to take? If 'no', why not?
Procurement			
1	Have the correct quantity of materials been ordered?	Y	Winvics QS ensures the correct quantities are ordered
2	Have delivery times been scheduled to avoid unnecessary site disturbance and storage?	Y	Site management plan been prepared.
3	Have suitable locations for the storage of materials been identified?	Y	See site Logistics plan
4	Are materials being obtained from reputable sources?	Y	Designated, reputable suppliers used
5	Can unnecessary packaging be avoided?	Y	All unnecessary packaging and pallets will be returned
6	Can unwanted packaging be returned to the supplier for recycling or reuse?	Y	As above
7	Can unused materials be returned to the supplier or used on another job?	Y	Yes any unused materials will be reused on another local winvic site
8	Can off-cuts be returned to the supplier or used on another job?	Y	As above
9	Can bulk packaging be used e.g., silos compared to tubs?	N/A	
10	Can we buy recycled materials?	Y	Where possible (and cost effective) winvic will be using recycled materials

Completed by:	Trevor Swailes	Position	HSEQ manager

13 APPENDIX 3 – SWMP CHECKLIST; CONSTRUCTION PHASE

	Points to consider	Y / N (Initials)	Comment If 'Yes', what action have you taken / do you propose to take? If 'no', why not?
On-site Activities			
1	Have estimates been made of potential waste streams and potential disposal amounts e.g. excavated material?	Y	Predictions based on previous Winvic projects of a similar nature
2	Has responsibility for waste management planning and compliance been assigned to the subcontractor, including named individual?	Y	Winvic control waste on site
3	Has responsibility been assigned to generate and submit waste performance reports (i.e., waste quantities and treatment disposal routes)?	Y	Yes monthly waste reports will be produced
4	Has the site been registered as a hazardous waste producer *(England & Wales only)*?	N/A	
5	Has an area of the site been designated for waste management, including storage and segregation?	Y	See site logistics plan
6	Have provisions been established to adequately store and segregate waste materials?	Y	As above
7	Have measures been put in place to deal with expected (and unexpected) hazardous waste?	Y	All COSHH data will be obtained
8	Has disposal of liquid waste such as wash-down water and lubricants been considered?	Y	
9	Have the most appropriate sites for disposal of waste from the project been considered?	Y	All waste will be disposed locally
10	Have toolbox talks been planned for all site personnel about waste management on-site?	Y	Explained at Induction and followed up by TBTs
11	Have provisions been established to clearly label containers / skips / drums?	Y	
12	Have means been developed to ensure that Duty of Care requirements are complied with? Namely: • Provision of transfer notes • Verifying registered carriers / brokers • Verifying registered exempt sites • Validation on the scope / validity of waste disposal sites	Y	• Skip companies to provide waste carriers licenses. • Transfer notice /consignment notices read for waste leaving site. • Waste management licenses read from end receiver

13	Have means been developed to periodically check that wastes are received at intended disposal site(s)?	Y	Site manager to check with waste transfer station to confirm receipt of waste.

Completed by:	Trevor Swailes	Position	HSEQ manager

The following table must be completed 1 month after P.C.

COMPLETION DECLARATION			
Winvic confirms that the plan has been monitored on a regular basis to ensure that work is progressing according to the plan and that the plan was updated to record details of the actual waste management actions and waste transfers that have taken place.			
Principal Contractor		Date	
Client	Signature	Date	
SWMP Author	Signature	Date	