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Module code ACBA 5012

Sustainable use of buildings

Part 3 SWMP

HND Building Surveying

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Site Waste Management Plan
Paxton Street: Car Park/Office block
Swansea

Stage 1: Planning

Project Scope & Vision

Construction will provide three storey basement car parking and substructure of 10 floors of office accommodation with retail outlets at ground floor. The construction is 900m² with excavation depth of 10m. The extent of the site is 6.37 acres and will be finished in line with the coast path parkway, providing green space and footpaths between the city centre and the shore front. To ensure our vision is in line with current sustainability we have made every effort to ensure prevention of waste materials is our utmost priority.

The development of this site waste management plan (SWMP) took place at the very beginning of this process during our design stage. With this in mind, standardization of dimensions will be used throughout the superstructure to minimise waste. A limited number of materials have been chosen for the construction to further reduce the types and volumes of waste generated with every effort made to re-use and recycle on site where possible. A great deal of consideration has been given to ensure where possible off-site manufacturing is used, this will ensure greater quality control as well as reduce project waste. Arrangements are in place with a number of suppliers to take back unused and waste materials for a number of materials and packaging.

Project Information

Project Name: Paxton Street car park and costal path
Project Location: Oystermouth Road Swansea
Estimated project cost: £37m
Construction floor area m²: 900
Start date: 1 November 2019

End date: 31 December 2020

Site Location and Description of works

Development of Paxton Street car park in the city centre of Swansea. The above site has been identified for development of three levels of basement car parking and a superstructure of 10 floors of office accommodation. The method of construction is as follows: Substructure – Secant piling using steel reinforcement to the primary piles only, secondary piles will be cast in situ without reinforcing. Reinforced friction piles will be used to form the foundations for the reinforced concrete slabs at basement and between floors. Superstructure – Is a concrete block cavity wall with ridged insulation and vapour barrier complete with a pressurised rainscreen cladding to finish facade. Floors are reinforced concrete slabs complete with concrete reinforced columns providing a mixture of closed and open plan office accommodation. Gable walls are blank and front and rear facing walls have 10 windows on each elevation.

Client: Swansea Local Authority
Main Contractor: Buckingham Group PLC

Responsibilities

Named author of SWMP: Alison Durie Swansea Local Authority
Implementation officer of the SWMP: Joseph Bloggs (Buckingham Group)
Waste Champion: Richard Askham Site manager (Buckingham Group)
Named person in charge of project: Stuart Pugh, (Principle Architect Buckingham Group)

Location of SWMP on site: Site office, within designated folder in filing cabinet
Electronic files: principle location software Swansea Local Authority – storage via cloud and distributed via email
Paper copies: 3No hard copies, 1No held on site, 1No held at authors office, 1No held within meeting file.

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Declaration of Statement: ***We agree that the 'Client' and the 'Main Contractor' will ensure all steps are undertaken to ensure care is taken in all aspects of waste management duties and that all site staff comply when handling materials and discarding in appropriate storage area.***

Signature: *Stuart Pugh*
Print: Stuart Pugh
Date: 3 August 2019

Signature: *Joseph Bloggs*
Print: Joseph Bloggs
Date: 17 August 2019

Waste Minimisation

The table below should be used to identify, record and plan each material to be used on site before construction begins. During this stage it is important that the design and construction methods are developed in an effort to minimise all waste production. By limiting the materials and using standardised measurements where possible this will further reduce the overall waste production.

Material	Waste and use/destination	By Whom	Intended results	Achieved by
Earth - Excavation	Re-use on site	Main contractor	Use for contouring and build up of noise prevention barriers on coastal path/gardens	Groundwork operatives transferring excavated earth to designated areas around site
Concrete ready mixed	Only use what is required	Supplier will provide part/half loads	Negotiated with supplier only use what is required part loads when required	Very small amounts will be collected and stored in designated areas for uplift by sub-contractor Stenor

Concrete block/bricks and stone rubble	Recycle and reuse on site	Landscaping contractor	Removed from site by Stenor crushed and returned for reuse.	Uplifted by sub-contractor crushed off site returned to site for hardcore use beneath paths
Steel	Recycle	Waste management contractor	Sub-contractor to remove and recycle from site cost for weight to be off set against site skip hire and uplift.	Waste storage via designated skips on site
Insulation	Recycle	Supplier	Supplier to remove all excess from site and recycle	Waste storage via designated skips on site
Timber	Recycle	Landscaping contractor	To be shredded on site by landscaping sub-contractor use as a decorative weed suppressant on planted beds	All timber and pallet wates to be stored in designated area prior to being shredded and reused on site.
Vapour barrier	Recycle	Landscaping contractor	To be used as a weed suppressant under soil	Waste stored via tonne bags clearly labelled on site
Rain screen cladding	Remove all excess from site	Supplier	Offsite manufacturing any surplus fixtures and fittings along with packaging will be removed from site.	
UPVC windows	Remove all excess from site	Supplier	Standardisation sizes used for windows off site manufacturing all packaging removed from site by supplier.	

Plasterboard	Recycle	Contractor/sub-contractor		Waste storage via designated skips on site
General Building Waste	Re use and recycle	Contractor/ sub-contractor	Segregation of all waste	Waste storage via designated skips on site
Food waste	Recycle	All workforce	Recycling bins throughout site and welfare facilities	Designated area for all food waste, uplifted by local authority refuge

Estimate of material type and volume expected during the project

Calculations have been made on the main materials only used as an example of the content of SWMP

Material	Waste origin	Sub-Contractor/Suppliers	Classification & Code	Bulk density (Kg/m ³)	Volume m ³
Earth	Excavation	Buckingham Group	17.05.04	1.25	9900m ³
Concrete ready mixed	Substructure – Secant/Friction Piles Floor slabs Internal columns	Stenor Earth Waste management	17.01.01	1.5	6,037.74m ³
Concrete block	Superstructure – cavity walls	Stenor Earth Waste management	17.01.01	1.25	1,503.86m ³
Steel	Substructure/ Superstructure - Reinforcement	Broughshire waste management		1.5	93.91m ³
Insulation	Superstructure	Kingspan	17.06.04		
Timber	Substructure – form work and pallets		17.02.01	0.75	
Vapour barrier	Superstructure				
Rain screen cladding	Superstructure	Proteus			
UPVC windows	Superstructure	AB Glass			

Plasterboard	Superstructure – dry lining office accommodation	British Gypsum	18.08.01	0.75	5.44m ³
General Building Waste	Site & Welfare		20.03.01	0.8	
Plastics	Substructure – drainage systems			0.75	
Food waste	Staff welfare	Uplift by Local Authority			

Substructure calculations

Concrete:

Secant piles (600mm diameter 10m length)	$\pi r^2 (3.14) \times (0.3m)^2 = 0.283m^2 \times 10m = 2.83m^3 \times 56 \text{ piles} = 158.48m^3$ $158.48m^3 \times 2.4t/m^3 = 380.35t$ $380.35t / 1.24t/m^3 = 306.73m^3$					306.73m ³
Friction piles (600mm diameter 10m length)	$\pi r^2 (3.14) \times (0.3m)^2 = 0.283m^2 \times 10m = 2.83m^3 \times 25 \text{ friction piles} = 70.75m^3$ $70.75m^3 \times 2.4t/m^3 = 169.80t$ $169.80t / 1.24t/m^3 = 136.93m^3$					136.93m ³
Concrete wall finish (int)	$4 \times 30m \times 2.6m \times 0.10m \text{ (sprayed concrete wall finish)} = 31.2m^3$ $31.2m^3 \times 2.4t/m^3 = 74.88t$ $74.88t / 1.24t/m^3 = 60.38m^3$					60.38m ³
Foundation raft 30m x 30m x 0.8m	$30m \times 30m \times 0.8m = 720m^3$ $720m^3 \times 2.4t/m^3 = 1,728t$ $1,728t / 1.24t/m^3 = 1,393m^3$					1,393m ³
Sub floor slabs 30m x 30m x 0.2m x 2	$30m \times 30m \times 0.2m \times 2 = 360m^3$ $360m^3 \times 2.4t/m^3 = 864t$ $864t / 1.24t/m^3 = 696m^3$					696m ³

Internal columns (25) grid section (x3) floors	$0.3\text{m} \times 0.3\text{m} \times 2.4\text{m} \times 25\text{columns} = 5.4\text{m}^3$ $5.4\text{m}^3 \times 2.4\text{t/m}^3 = 12.96\text{m}^3$ $12.96\text{m}^3 / 1.24\text{t/m}^3 = 10.45\text{m}^3$ $10.45\text{m}^3 \times 3\text{ floors} = 31.35\text{m}^3$	31.35m ³
<i>Steel reinforcing:</i> Secant piles 56/2=28 reinforced piles	$\pi r^2 (3.14) \times (0.3\text{m})^2 = 0.283\text{m}^2 \times 10\text{m} = 2.83\text{m}^3 \times 56\text{ piles} = 158.48\text{m}^3$ $158.48\text{m}^3 \times 0.010\text{t/m}^3 = 1.58\text{t}$ $1.58\text{t} / 0.42\text{t/m}^3 = 3.77\text{m}^3$	3.77m ³
Friction piles 25	$\pi r^2 (3.14) \times (0.3\text{m})^2 = 0.283\text{m}^2 \times 10\text{m} = 2.83\text{m}^3 \times 25\text{ friction piles} = 70.75\text{m}^3$ $70.75\text{m}^3 \times 0.010\text{t/m}^3 = 0.70\text{t}$ $0.70\text{t} / 0.42\text{t/m}^3 = 1.68\text{m}^3$	1.68m ³
Sub floor columns 25 x 3 =75	$0.3\text{m} \times 0.3\text{m} \times 2.4\text{m} \times 25\text{columns} = 5.4\text{m}^3$ $5.4\text{m}^3 \times 0.010\text{t/m}^3 = 0.054\text{m}^3$ $0.054\text{m}^3 / 0.42\text{t/m}^3 = 0.13\text{m}^3$ $0.13\text{m}^3 \times 3\text{ floors} = 0.39\text{m}^3$	0.39m ³
Raft foundation 30m x 30m x 0.8m	$30\text{m} \times 30\text{m} = 900\text{m}^2 \times 0.8\text{m} = 720\text{m}^3$ $720\text{m}^3 \times 0.015\text{t/m}^3 = 10.8\text{t}$ $10.8\text{t} / 0.42\text{t/m}^3 = 25.72\text{m}^3$	25.72m ³
Sub floors 30m x 30m x 0.2m	$30\text{m} \times 30\text{m} = 900\text{m}^2 \times 0.2\text{m} \times 2 = 360\text{m}^3$ $360\text{m}^3 \times 0.015\text{t/m}^3 = 5.4\text{t}$ $5.4\text{t} / 0.42\text{t/m}^3 = 12.85\text{m}^3$	12.85m ³

Superstructure calculations

Floor slabs 30m x 30m x 0.2m x 11 (floors inc. ground floor)	$30\text{m} \times 30\text{m} = 900\text{m}^2 \times 0.2\text{m} = 180\text{m}^3$ $180\text{m}^3 \times 2.4\text{t/m}^3 = 432\text{t}$ $432\text{t} / 1.24\text{t/m}^3 = 348\text{m}^3$ $348\text{m}^3 \times 11 \text{ floors} = 3,382\text{m}^3$	3,382m ³
Internal columns	$0.3\text{m} \times 0.3\text{m} \times 2.4\text{m} \times 25 \text{ columns} = 5.4\text{m}^3$ $5.4\text{m}^3 \times 2.4\text{t/m}^3 = 12.96\text{m}^3$ $12.96\text{m}^3 / 1.24\text{t/m}^3 = 10.45\text{m}^3$ $10.45\text{m}^3 \times 3 \text{ floors} = 31.35\text{m}^3$	31.35m ³
Blockwork: Blanks walls (Ext leaf)	$29.9\text{m (ave.)} \times 2.4\text{m} \times 0.1\text{m} \times 2\text{walls} = 14.35\text{m}^3$ $14.35\text{m}^3 \times 2.4\text{t/m}^3 = 34.44\text{t}$ $34.44\text{t} / 1.24\text{t/m}^3 = 27.77\text{m}^3$ $27.77\text{m}^3 \times 11 \text{ storeys} = 305.56\text{m}^3$	305.56m ³
Blanks walls (Int leaf)	$28.85\text{m (ave.)} \times 2.4\text{m} \times 0.1\text{m} \times 2\text{walls} = 13.85\text{m}^3$ $13.85\text{m}^3 \times 2.4\text{t/m}^3 = 33.24\text{t}$ $33.24\text{t} / 1.24\text{t/m}^3 = 26.80\text{m}^3$ $26.80\text{m}^3 \times 11 \text{ storeys} = 294.87\text{m}^3$	613.16m ³
Window walls: (each floor has 10 windows on 2 walls of building) 1.2m x 1.6m = 1.92m ² x 20 windows = 38.4m ² External leaf:	$305.56\text{m}^3 - (38.4\text{m}^2 \times 0.2\text{m} [\text{blockwork}]) = 297.88\text{m}^3$	297.88m ³
Internal leaf: Plasterboard 1.2m x 2.4m = 2.88m ² (per sheet) Blank walls	$294.87\text{m}^3 - (38.4\text{m}^2 \times 0.2\text{m} [\text{blockwork}]) = 287.26\text{m}^3$ $28.85\text{m (ave.)} \times 2.4\text{m (height)} = 69.24\text{m}^2$ $69.24\text{m}^2 / 2.88\text{m}^2 = 24.04 \text{ (boards)}$ $24.04 \times 2 \text{ walls per floor} = 48.08 \times 11 \text{ storeys} = 528.28\text{m}^2$ $528.28\text{m}^2 \times 0.013\text{m thickness} = 6.875\text{m}^3$ $6.875\text{m}^3 \times 0.33\text{t/m}^3 = 2.27\text{t}$ $2.27\text{t} / 0.75\text{t/m}^3 = 3.02\text{m}^3$	3.02m ³

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Window walls: (less window dims. 1.92m ² x 20 = 38.4m ²) 2 walls per floor	3.02m ³ – (38.4m ² x 0.013m) = 0.50m ³ 0.50m ³ x 11 storeys = 5.50m ³ 5.50m ³ x 0.33t/m ³ = 1.81t 1.81t / 0.75t/m ³ = 2.42m ³	2.42m ³
Floor slab steel calculations x 11 storey's	30m x 30m = 900m ² x 0.2m = 180m ³ 180m ³ x 0.010t/m ³ = 1.8t 1.8t/0.42t/m ³ = 4.3m ³ 4.3m ³ x 11 floors = 47.3m ³	47.3m ³
Column steel calculations x 11 storey's	0.3m x 0.3m x 2.4m x 25 columns = 5.4m ³ 5.4m ³ x 0.015t/m ³ = 0.081m ³ 0.081m ³ / 0.42t/m ³ = 0.2m ³ 0.2m ³ x 11 floors = 2.2m ³	2.2m ³

Sub-contractors supporting information, full details contained in electronic and hard copies
All contact details supplied are fictitious used only to show content within the SWMP

Sub-Contractor	Web links	Contact details
Stenor Earth Waste management	https://www.stenor.co.uk/about-us	Joe Ambrose: 07745 678954
Broughshire waste management metal & Skip hire	https://www.broughshire.com/	Caroline Stobbo: 01792 889223
Kingspan	https://www.kingspan.com/	Stuart Kerrigan: 07944 332112
AB Glass	https://www.abforglass.co.uk/commercial/	Meryl Jones: 01792 555009
Clive Edwards Contracts	https://cliveedwardscontracts.co.uk/ready-mix-concrete/	Roy Phillips: 07942 229801
British Gypsum	https://www.british-gypsum.com	Brian Andreas & Heidi Banard
Proteus	https://proteusfacades.com/	Jack Black
Mid Glam Construction Ltd	https://www.midglamconstructionltd.com/landscaping	Geraint Lewis - Contracts Supervisor: 07775 447072

Waste management targets

Waste type	Reduce %	Reuse %	Recover %	Recycle %	Dispose %
Excavated Earth		100			
Concrete				100	
Concrete Block				100	
Steel				100	
Plasterboard				100	
Insulation				100	
Timber		98			

Stage 2: Implementation/monitoring

Training/Communication

Everyone on site will received the relevant training prior to working on site, this should include:

- Overview of SWMP
- Roles and Responsibilities
- Waste procedures on site
- Materials/storage/hazardous
- Duty of care

Forms of training that will be used on site: (tick all that apply)

- Induction
- E-learning
- Work shops
- Tool box talks
- Other please specify

- Do you have a training log?

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- If yes where is it kept?

How are you communicating the SWMP on site?

- Meetings
- Posters
- Feedback from staff
- Other (please specify)

Training Log

Information used is only to show content of a SWMP

Name	Company	Date	Trained by	Type of training	Date next training due
A Durie	Swansea LA	16 Sept 2019	J Ferriz-papi	Induction	
S Pugh	Buckingham Construction	16 Sept 2019	J Ferriz-papi	Induction	
R Askham	Buckingham Construction	16 Sept 2019	J Ferriz-papi	Induction	
Joseph Bloggs	Buckingham Construction	16 Sept 2019	J Ferriz-papi	Induction	
L Charlesworth	Buckingham Construction	1 Nov 2019	L Richards	Toolbox talk	May 2020
A English	Buckingham Construction	1 Nov 2019	L Richards	Toolbox talk	May 2020
S Lyttel	Buckingham Construction	1 Nov 2019	L Richards	Toolbox talk	May 2020

Waste Log

It is mandatory to record at least bi-annually the type and quantities of waste produced on site and confirm what has happened to this waste. For this project it is expected this waste log will be completed on a monthly basis by named responsible person and followed by a summary report to be discussed at monthly management meetings under agenda heading SWMP – update.

Date:										
Quantity M³ or tonnes (delete as appropriate)										

Type of waste	Re-use on site	Re-use off site	Recycling on site	Recycling off site	Recovery on site	Recovery off site	Other disposal	Sent to landfill
Excavated Earth	Contouring and landscaping							
Concrete	Hardcore under paths			Crush off site				
Concrete Block	Hardcore under paths			Crush off site				
Steel				Subcontractor to recycle			Value off set against skip hire	
Plasterboard				Supplier take back scheme				
Insulation				Supplier take back scheme				
Timber	Chipped used as décor at planting						Pallets re sold	

Waste Records

It is mandatory to record the identification of the person(s) removing waste from site (i.e. waste management contractor). The types of waste that are removed and where the waste is being taken to. Each contractor removing waste from site **MUST** have the appropriate licence. Copies of licences **MUST** be taken and stored in the SWMP electronic and paper copy files. Details recorded

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clearly on the form below. ***Waste must not leave the site until a Duty of care waste transfer note has been completed****
(Appendix 1)

Date waste removed	Type of waste	Who removed the waste	Destination of waste	Waste carrier licence number	Evidence: waste transfer note of location reference	Signature
12 Dec 19	Concrete	Stenor Earth Waste management	Swansea plant	23478910	Pax 234-67	A Lyttel
16 Jan 20	Steele	Broughshire waste management	Neath	3435678-234	Pax 978-23	M grey

Monitoring review of plan

The SWMP should be checked on a regular basis, for each project this will be done monthly prior to the management meetings and update reports.

Information used is only to show content of a SWMP

Name	Date	Summary/Action carried out	Signed off by (Chair of management meeting)
R Askham	12 December 2019	Management meeting agenda item 4	S Pugh – Chair of meeting
J Bloggs	"	"	"

J Bloggs	6 January 2020	Management meeting agenda item 4	S Pugh – Chair of meeting
R Askham	13 February 2020	Management meeting agenda item 4	S Pugh – Chair of meeting

Stage 3: Completion review

This section must be completed within a three-month period of the project finish date, discussed, recorded and agreed at final management meeting.

I/We confirm the plan has been monitored throughout the project on a regular basis to ensure the work progress was in accordance with the plan and regularly updated and signed off by named personnel.

Signature: *Joseph Bloggs* (Buckingham Group)

Print name: Joseph Bloggs

Date: 4 March 2021

The following sections should be used to help evaluate the success of the SWMP, and to identify key 'lessons learnt' for use on future projects, this will help strive for continued improvement.

Any deviation from the original plan

The vapour barrier identified for use on the superstructure was not suitable for re use as part of the landscaping due to the porosity levels. The vapour barrier was segregated during construction and re used in a local nature project.

How successful do you believe the SWMP plan has been?

Extremely successful with an overall reduction of general waste being achieved across the whole site. Of the main materials used for the construction the SWMP has recorded significant reduction of general site waste due to the separation of each material. Due to the pre planning and considerations taken during the design phase 100% re use or recycling for Concrete,

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Earth, Steel. Supplier take back schemes maximised for plasterboard, mineral wool insulation and timber if not used for shredding and decorative finish on landscaping. Pallets are to be re-sold.
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[Actions planned for future projects](#)

Continuous improvement to ensure the prevention of waste materials on site through careful planning and design.

If the project value was in excess of £500,000 estimate of cost savings achieved: £

****In accordance with current legislation this plan should be kept on file by owner for a period of 2 years after the finish date of project.***

"The Environment Protection Act 1990 (including Duty of Care regulations) - This is the main legislation governing clinical waste disposal. It states that all producers of waste have a Duty of Care to ensure the correct management of waste, including documenting the transfer of waste and ensuring waste is handled correctly. It also requires compliance with The Waste Hierarchy".

"The Controlled Waste (England and Wales) Regulations 2012 - This states that household, industrial and commercial waste is classed as 'controlled waste' and are subject to the Environmental Protection Act 1990".

"The Hazardous Waste Directive - This provides guidance on labelling, record keeping, monitoring and control obligations for everyone from waste production to the final recovery and disposal. It forbids the mixing of hazardous substances and items in order to prevent risk to the environment and human health".

"The Carriage of Dangerous Goods Regulations - These govern the transportation of dangerous goods, by rail or road. They state that all technicians transporting dangerous waste must be ADR trained and therefore have sufficient knowledge to transfer the waste safely." (initial.co.uk, 2020)

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Appendices

Appendix 1: Duty of care: Waste transfer note

Duty of care: waste transfer note

Keep this page and copy it for future use. Please write as clearly as possible.

Section A – Description of waste

A1 Description of the waste being transferred

List of Waste Regulations code(s)

A2 How is the waste contained?

Loose ☐ Sacks ☐ Skip ☐ Drum ☐

Other ☐ _____

A3 How much waste? For example, number of sacks, weight

Section B – Current holder of the waste – Transferor

By signing in Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011 Yes ☐

B1 Full name

Company name and address

Postcode _____ SIC code (2007) _____

B2 Name of your unitary authority or council

B3 Are you:

The producer of the waste? ☐

The importer of the waste? ☐

The local authority? ☐

The holder of an environmental permit? ☐

Permit number _____

Issued by _____

Registered waste exemption? ☐

Details, including registration number

A registered waste carrier, broker or dealer? ☐

Registration number _____

Details (are you a carrier, broker or dealer?)

Section C – Person collecting the waste – Transferee

C1 Full name

Company name and address

Postcode _____

C2 Are you:

The local authority? ☐

C3 Are you:

The holder of an environmental permit? ☐

Permit number _____

Issued by _____

Registered waste exemption? ☐

Details, including registration number

A registered waste carrier, broker or dealer? ☐

Registration number _____

Details (are you a carrier, broker or dealer?)

Section D – The transfer

D1 Address of transfer or collection point

Postcode _____

Date of transfer (DD/MM/YYYY) _____

D2 Broker or dealer who arranged this transfer (if applicable)

Postcode _____

Registration number _____

Time(s) _____

Transferor's signature

Name

Representing _____

Transferee's signature

Name

Representing _____