

Site Waste Management Plan for Swansea Bay Technology Centre

Date: Thu Feb 27 10:50:36 GMT 2020

Site Waste Management Plan Progress

Step	Completed
1. Responsibilities	✓
2. Waste minimisation	
3. Forecast	
4. Waste management options	
5. Duty of care	
6. Training / Communication	
7. Actual versus Forecast waste	✓
8. Ongoing review of implementation	
9. Completion review	

Project Details

Project reference	TM26X004
Project name	Swansea Bay Technology Centre
Project address	Wales - South sa11
Project use class	Other (Commercial Offices)
Actual start date	7/9/2020
End date	29/10/2021
Project cost (estimated)	£ 6,750,000.00
Floor area	2500.0 m ²
Description of site location	New build technology centre comprising offices/ laboratories. The building will be energy positive which means it will generate more energy than it uses over the course of a year
Client	Neath Port Talbot CBC - Paul Dorrell
Principal Contractor	TBC

Responsibilities

	Name	Company	Company Type	Contact details
Who is responsible for drafting the SWMP?	Phil Davies	Morgan Sindall	Principal contractor	philip.davies@morgansindall.com
Who is responsible for implementing the SWMP?	Gary Owens	Morgan Sindall	Principal contractor	gary.owens@morgansindall.com
Who is the waste champion?	TBC	Morgan Sindall	Principal contractor	TBC
Who is the person in charge of the project?	TBC	Morgan Sindall	Principal contractor	TBC
Who is the client?	Paul Dorrell	Neath Port Talbot CBC	Client	p.dorrell@npt.gov.uk
Who is the principal contractor?	TBC	Morgan Sindall	Principal contractor	TBC

Where will this SWMP will be kept? (a copy should be kept onsite)

1) Electronic document

2) Paper based document

Declaration statement: The Client and Principal contractor will take reasonable steps to ensure waste duty of care is complied with, materials are handled efficiently and waste is managed appropriately.

Tick box to agree: ☒

Client signature:

Print name:

Date:

Contractor signature:

Print name:

Date:

Waste minimisation decisions

Type of waste minimisation decision	Waste minimisation decision taken	At what RIBA plan of works stage has this been considered	By whom	Intended results	Carried out by	Comments	Decision status
Re-use and Recovery	Cut and fill exercise to maximise use of excavated material	Concept Design	Design Team	Minimise excavated material removed from site	Design team		✓
Off Site Construction	Steel frame with precast concrete planks for superstructure	Concept Design	Morgan Sindall and Design Team	Reduced waste through off site manufacture			✓
Off Site Construction	Prefabricated stairs (concrete/steel)	Concept Design	Design Team	Reduced waste through off site manufacture			✓
Re-use and Recovery	Activities aligned to use excess concrete as drainage cover/ for kerbs	Concept Design	Morgan Sindall	Reuse of overordered materials	Morgan Sindall		
Waste Management/Recovery	Waste to be segregated on site to maximise reuse/ recycling	Concept Design	Morgan Sindall Construction Team	Maximise reuse/ recycling and reduce waste to landfill	Subcontractors		
Design	External envelope designed as composite cladding system	Concept Design	Morgan Sindall and Design Team	Off site manufacture and reduced on site waste			✓

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Forecast of waste types and amounts

Work Package	Subcontractor	Waste type	Waste Sub Type	Estimate amount (m3)	Estimate amount (tonnes)	Likely cause	Notes
Groundworks & excavation		Soils (17 05 04)	Subsoil (17 05 04)	678.0	~ 847.5	Excavation	
Groundworks & excavation		Soils (17 05 04)	Topsoil (17 05 04)	1,040.0	~ 1,300.0	Excavation	
Construction		Concrete (17 01 01)		25.0	~ 31.8	Other	
Construction		Insulation materials (non hazardous) (17 06 04)		20.0	~ 5.0	Other	
Construction		Packaging materials (15 01 06)		60.0	~ 12.6	Packaging	
Construction		Plasterboard / Gypsum (17 08 02)	Plasterboard (17 08 02)	10.0	~ 3.3	Other	
Construction		Plastic (excluding packaging waste) (17 02 03)		10.0	~ 2.3	Other	
Construction		Timber (17 02 01)		50.0	~ 17.0	Other	
Construction		Floor coverings (soft) (20 01 11)		3.0	~ 0.8	Other	
Construction		Electrical and electronic equipment (non hazardous) (20 01 36 or 16 02 14)		1.0	~ 0.2	Other	
Construction		Canteen/Office/Adhoc waste (20 03 01)		20.0	~ 4.2	Other	
Construction		Oils (13 01 13*)		1.0	~ 0.9	Other	
Construction		Bituminous mixtures (non hazardous e.g. asphalt) (17 03 02)		20.0	~ 16.4	Other	
Construction		Other waste		20.0	~ 4.2		
Construction		Mixed construction and/or demolition waste (17 09 04)		180.0	~ 57.6		
Construction		Metals (17 04 07)		20.0	~ 8.4		
Total				2,158.0	2,312.2		

Waste management options

Waste type		Reduce (%)	Reuse (%)	Direct Recycle (%)	Recovery (%)	Energy Recovery (%)	Landfilled/Disposal (%)	Container type	Waste Management contractor	Exe
Concrete (17 01 01)	onsite	95%	0%	0%	0%	0%	0%			
		How will this be achieved								
	offsite	0%	0%	0%	0%	0%	5%			
Insulation materials (non hazardous) (17 06 04)	onsite	0%	0%	0%	0%	0%	0%			
		How will this be achieved								
	offsite	0%	0%	0%	0%	0%	100%			
Metals (17 04 07)	onsite	0%	0%	0%	0%	0%	0%			
		How will this be achieved								
	offsite	0%	0%	100%	0%	0%	0%			
Packaging materials (15 01 06)	onsite	0%	0%	0%	0%	0%	0%			
		How will this be achieved								
	offsite	0%	0%	50%	0%	0%	50%			
Plastic (excluding packaging waste) (17 02 03)	onsite	0%	0%	0%	0%	0%	0%			
		How will this be achieved								
	offsite	0%	0%	90%	0%	0%	0%			
Timber (17 02 01)	onsite	0%	0%	0%	0%	0%	0%			
		How will this be achieved								
	offsite	0%	30%	70%	0%	0%	0%			
Floor coverings (soft) (20 01 11)	onsite	0%	0%	0%	0%	0%	0%			

		How will this be achieved					
	offsite	0%	0%	0%	100%	0%	0%
Electrical and electronic equipment (non hazardous) (20 01 36 or 16 02 14)	onsite	0%	0%	0%	0%	0%	0%
		How will this be achieved					
	offsite	0%	0%	50%	0%	0%	50%
Canteen/Office/Adhoc waste (20 03 01)	onsite	0%	0%	0%	0%	0%	0%
		How will this be achieved					
	offsite	0%	0%	30%	0%	0%	70%
Oils (13 01 13*)	onsite	0%	0%	0%	0%	0%	0%
		How will this be achieved					
	offsite	0%	0%	100%	0%	0%	0%
Bituminous mixtures (non hazardous e.g. asphalt) (17 03 02)	onsite	0%	0%	0%	0%	0%	0%
	offsite	0%	0%	0%	0%	0%	0%
Plasterboard (17 08 02)	onsite	0%	0%	0%	0%	0%	0%
		How will this be achieved					
	offsite	0%	0%	100%	0%	0%	0%
Subsoil (17 05 04)	onsite	0%	100%	0%	0%	0%	0%
		How will this be achieved					
	offsite	0%	0%	0%	0%	0%	0%
Topsoil (17 05 04)	onsite	0%	100%	0%	0%	0%	0%
		How will this be achieved					
	offsite	0%	0%	0%	0%	0%	0%
Other waste	onsite	0%	0%	0%	0%	0%	0%

	offsite	0%	0%	0%	0%	0%	0%
Mixed construction and/or demolition waste (17 09 04)	onsite	0%	0%	0%	0%	0%	0%
	How will this be achieved						
	offsite	0%	0%	95%	0%	0%	0%
Overall target		0%	0%	0%	0%	0%	0%

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Duty of care

Waste Management Contractor Name	Waste carrier license number	Issue date	Expiry date	Waste Transfer notes storage location
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Have you registered with the Environment Agency as a hazardous waste producer? :

Hazardous waste registration number:

Date of issue: Date of expiry:

Training / Communication

Training

Everyone on site should receive relevant training which should include:

- The SWMP
- Roles and responsibilities
- Waste procedures on site
- Hazardous waste
- Duty of care / responsibilities
- Materials storage.

The following types of training are being undertaken:

Induction :

Tool box talks :

Workshops :

Other :

The training log is kept at:

This table can also be used as a training log

Name	Company	Date	Who trained by	Type of training	Date next training due
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Communication

The plan is being communicated by:

Meetings :

Posters :

Feedback from staff :

other, please state :

Waste Data

If you have entered any waste data then it will be summarised below.

no waste data has yet been added

Waste types and routes

Project Performance

	Total waste	Tonnage	Waste management routes percentages				
	(m ³)		Reuse	Recovery	Recycle	Disposal	Energy Recovery
Bricks (17 01 02)	0.00	0.00	-	-	-	-	-
Tiles and Ceramics (17 01 03)	0.00	0.00	-	-	-	-	-
Concrete (17 01 01)	0.00	0.00	-	-	-	-	-
Inert (17 01 07)	0.00	0.00	-	-	-	-	-
Insulation materials (non hazardous) (17 06 04)	0.00	0.00	-	-	-	-	-
Metals (17 04 07)	0.00	0.00	-	-	-	-	-
Packaging materials (15 01 06)	0.00	0.00	-	-	-	-	-
Plasterboard / Gypsum (17 08 02)	0.00	0.00	-	-	-	-	-
Binders (17 01 01)	0.00	0.00	-	-	-	-	-
Plastic (excluding packaging waste) (17 02 03)	0.00	0.00	-	-	-	-	-
Timber (17 02 01)	0.00	0.00	-	-	-	-	-
Floor coverings (soft) (20 01 11)	0.00	0.00	-	-	-	-	-
Electrical and electronic equipment (non hazardous) (20 01 36 or 16 02 14)	0.00	0.00	-	-	-	-	-
Furniture (20 03 07)	0.00	0.00	-	-	-	-	-

Canteen/Office/Adhoc waste (20 03 01)	0.00	0.00	-	-	-	-	-
Liquids (16 10 02)	0.00	0.00	-	-	-	-	-
Waste paint & varnish (non-hazardous) (08 01 12)	0.00	0.00	-	-	-	-	-
Oils (13 01 13*)	0.00	0.00	-	-	-	-	-
Soils (17 05 04)	0.00	0.00	-	-	-	-	-
Bituminous mixtures (non hazardous e.g. asphalt) (17 03 02)	0.00	0.00	-	-	-	-	-
Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified (19 12)	0.00	0.00	-	-	-	-	-
Wastes from soil and groundwater remediation (19 13)	0.00	0.00	-	-	-	-	-
Hazardous waste*	0.00	0.00	-	-	-	-	-
Other waste	0.00	0.00	-	-	-	-	-
Mixed construction and/or demolition waste (17 09 04)	0.00	0.00	-	-	-	-	-

Summary Charts

Actual volume of waste to date by product group



Actual volume of waste over time

SWMP Actual Volume Vs Forecast Chart

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Current actual waste quantities versus forecasted quantities

Waste type	Waste Sub Type	Forecast quantity (m ³)	Actual (m ³)	Difference	% Difference
Bituminous mixtures (non hazardous e.g. asphalt) (17 03 02)		20.0	0.0	20.0	-100.0
Canteen/Office/Adhoc waste (20 03 01)		20.0	0.0	20.0	-100.0
Concrete (17 01 01)		25.0	0.0	25.0	-100.0
Electrical and electronic equipment (non hazardous) (20 01 36 or 16 02 14)		1.0	0.0	1.0	-100.0
Floor coverings (soft) (20 01 11)		3.0	0.0	3.0	-100.0
Insulation materials (non hazardous) (17 06 04)		20.0	0.0	20.0	-100.0
Metals (17 04 07)		20.0	0.0	20.0	-100.0
Mixed construction and/or demolition waste (17 09 04)		180.0	0.0	180.0	-100.0
Oils (13 01 13*)		1.0	0.0	1.0	-100.0
Other waste		20.0	0.0	20.0	-100.0
Packaging materials (15 01 06)		60.0	0.0	60.0	-100.0
Plasterboard / Gypsum (17 08 02)	Plasterboard (17 08 02)	10.0	0.0	10.0	-100.0
Plastic (excluding packaging waste) (17 02 03)		10.0	0.0	10.0	-100.0
Soils (17 05 04)	Subsoil (17 05 04)	678.0	0.0	678.0	-100.0
Soils (17 05 04)	Topsoil (17 05 04)	1040.0	0.0	1040.0	-100.0
Timber (17 02 01)		50.0	0.0	50.0	-100.0
		Forecast %	Actual %		
Reuse		0	-		
Direct recycle		0	-		
Recovery		0	-		
Energy Recovery		0	-		
Landfilled/Disposal		0	-		

Ongoing review of implementation

This table logs any changes that may have been made to the SWMP.
Snapshots captured (Can be viewed in SmartWaste)

Date	Name	Summary/ Actions carried out
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Completion review

This section must be filled in within 3 months of the work being completed on this project (i.e. project finish):

We confirm that the plan has been monitored on a regular basis to ensure that work was progressing to the plan and the plan was updated:

Signature

Print name

Date

This stage is designed to help you evaluate the success of your SWMP, and to identify key 'lessons learnt' to use on your future project, it is helping you strive for continual improvement.

Please review how successful you believe the implementation of the SWMP was:

Please explain any deviation from the original plan:

Estimate of cost savings achieved: £0

Action planned for next project:

Please provide a comparison of the estimated quantities of each waste type against the actual quantities.

If you have used SmartWaste for measuring waste on this project, the data supplied in step 9 will help with this)

Snapshot of Actual versus Forecast waste on 27/2/2020

Provide snapshot of Actual versus Forecast waste by the snapshot button

Confirmation (within 3 months)

Confirmation (within 3 months) :

Signature

Print name

Date

This plan should be kept at either the principal contractor's place of business or at the site of the project for 2 years

Appendix

Appendix 1: Cost data

Cost data is summarised below

Summary information

Total cost of waste removal	£0.00
Waste cost/£100K	£0.00
Waste cost/100m ²	£0.00
Waste cost as % of project cost	0.0%
Waste cost/tonne	-
Waste cost/m ³	-

Waste types and routes

Cost of non-hazardous waste / tonne	-
Cost of inert waste / tonne	-
Cost of hazardous waste / tonne	-
Cost of active waste / m ³	-
Cost of inert waste / m ³	-
Cost of hazardous waste / m ³	-
Hazardous waste removal cost as a % of total waste removal cost	0%
Segregated waste removal cost as a % of total waste removal cost	0%
Mixed waste removal cost as a % of total waste removal cost	0%
Inert waste removal cost as a % of total waste removal cost	0%
Active waste removal cost as a % of total waste removal cost	0%

Appendix 2: Subcontractors

Appendix 3: Users