SMARTWASTE
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Site Waste Management Plan for MTL Site

Date:Tue Aug 04 16:32:57 BST 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	TM15Y006
Project name	MTL Site
Project address	North West L7 9NJ
Project use class	Film TV studios (Commercial Other)
Actual start date	4/1/2021
End date	30/4/2021
Project cost (estimated)	£ 1,500,000.00
Floor area	4092.0 m^2
Description of site location	Infrastructure and slabs for temporary new build structures.
Client	Liverpool City Council - TBC
Principal Contractor	TBC

Responsibilities

	Name	Company	Company Type	Contact details
Who is responsible for drafting the SWMP?	Project Manager	Morgan Sindall Construction	Principal contractor	TBC
Who is responsible for implementing the SWMP?	Project Manager	Morgan Sindall Construction	Principal contractor	TBC
Who is the waste champion?	Jane King	Morgan Sindall Construction	Principal contractor	TBC
Who is the person in charge of the project?	Project Manager	Morgan Sindall Construction	Principal contractor	TBC
Who is the client?	TBC	Liverpool City Council	Client	TBC
Who is the principal contractor?	TBC	Morgan Sindall Construction	Principal contractor	TBC

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

1) Electronic document	Yes
2) Paper based document	Yes

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
Waste Reduction	From the site team appoint an office energy champion to encourage all to power off when items are not in use.		Morgan Sindall	Reduce power consumption and our carbon footprint	Morgan Sindall		
Waste Management/Recovery	From the site team appoint a single point of contact responsible for managing all waste on site.		Morgan Sindall	Responsible for managing waste initiatives on site	Morgan Sindall		
Other	Incentivise car sharing / cycling to the project (e.g. priority spaces) - also roll out to Subcontractors.		Morgan Sindall	Reduce energy and fuel constumption and our carbon footprint	Everyone		
Other	Reward staff cycling to work.		Morgan Sindall	Reduce energy and fuel constumption and our carbon footprint	Morgan Sindall		
Other	Promote use of public transport by providing bus & train timetables.		Morgan Sindall	Reduce energy and fuel constumption and our carbon footprint	Everyone		
Other	Incentive scheme for subcontractors to reduce fuel usage, i.e. see Speedy green plant list below.		Morgan Sindall	Reduce energy and fuel constumption and our carbon footprint	Everyone		
Waste Reduction	All weather waterproof		Morgan Sindall	Can be used in lieu of	Lyreco		

	paper.		laminating paper. Paper is fully recycable.		
Waste Management/Recovery	14yd skips in lieu of smaller 8yd skips	Morgan Sindall	Reduces total transportation, deliver and collection cost and carbon footprint due to less skips being delivered to site compared to their smaller cousin.	Waste Management Company	14cuyd skips share the same footprint as their smaller 8cuyd cousin but can accommodate more waste, meaning less delivery and collections.
Re-use and Recovery	Compost bins for cigarettes.	Morgan Sindall	Cigarette filters are washed, shredded, and combined with other plastics to create signage and plastic ply alternative products e.g. table tops and hoarding, etc. The ash and other biodegradable elements are turned into compost.	Terracycle	Recycling cigarrette butts. Smoking on site can have a negative impact on both the appearance of sites and the environment (and it takes circa 12 years for a cigarette but to biodegrade).
Re-use and Recovery	Use Europallets	Morgan Sindall	Reuse of pallets	Everyone	
Waste Management/Recovery	Spray pallets	Morgan Sindall	Gateman to spray pallets upon arrival to site with a trade specific colour marker. This way we will know who's pallet have gone into the skip and then able to challenge those companies.	Morgan Sindall	
Waste Efficient Procurement	Akyprint signage which is an alternative to PVC (foamex) signage, i.e. made from polypropylene	Morgan Sindall	Polypropylene is less damaging to the environment compared to single use	Hollywood Monster	

	which is less damaging to the environment.		plastic and can be recycled.	
Waste Management/Recovery	Correct use of cabin heater; thermostats and timers	Morgan Sindall	Reduces environmental impact and our carbon footprint.	Morgan Sindall
Waste Efficient Procurement	Ensure cabins come with the correct energy efficient specification for reducing energy, water consumption e.g. energy efficient hand dryers.	Morgan Sindall	Reduces environmental impact and our carbon footprint.	Accommodation provider
Waste Efficient Procurement	Portable toilets with solar panels to charge the hot water systems.	Morgan Sindall	Reduces environmental impact and our carbon footprint.	Tardis Hire
Re-use and Recovery	Collect all types of wood waste and make; bird boxes, benches, planters, benches etc., out of collected timber.	Morgan Sindall	Sell back to the public, recycle or send for chipping. Social Enterprise.	Community Wood Recycling
Waste Efficient Procurement	Hire Speedy green tools such as; battery operated drills, grinders, wackers, etc	Morgan Sindall	Reduce energy and fuel consumption and our carbon footprint	Everyone
Waste Efficient Procurement	Consider hybrid generators for power.	Morgan Sindall	Reduces environmental impact and our carbon footprint. Only cost effective over long term hire.	Speedy Hire
Other	Consider GREEN D+, HVO Alternative FUEL (Hydrotreated Vegetable Oil).	Morgan Sindall	Reduce energy and fuel consumption and our carbon footprint	Speedy Hire
Other	Bootwash	Morgan	Reduces	Speedy Hire

	station	Sindall	environmental impact and our carbon footprint.	
Other	Consider a rumble Strip. Alternative to wheel wash.	Morgan Sindall	Cost effective alternative to wheel wash and frequent road sweeper hire. No water to provide waste or dispose of. No water course contamination, or freezing or icing. No power required or emissions. No breakdowns.	Ecogreen
Other	Greenham PPE recycling service. Please leave PPE for 72 hours before handling due to COVID-19	Morgan Sindall	This protects our brand and improves our carbon footprint. Greenham will take all used PPE including subs old PPE.	Greenham Trading
Other	Reusable water bottles. Issue employees with reusable water bottles.	Morgan Sindall	Reduce the amount of single use plastics	Morgan Sindall
Other	Hanson - tough bag - promoted via Jewson their tough bag is 95% less plastic than a plastic cement bag and is 50% stronger according to research. The bag seal is less likely to break (a slight cut in the bag can lead to the product setting hard in the corners of the bag which can happen with the plastic cement bag). The tough bag	Morgan Sindall	More sustainable than standard plastic cement bags.	Groundworker

	however does not fail and therefore less chance of wastage.				
Materials	Consider low carbon concrete from the likes of Hanson or Cemex.	Morgan Sindall	Reduced embodied carbon content over 70% compared to standard concrete.	Groundworker	
Materials	Consider BAMTEC reinforcement used for slabs. BAMTEC is a roll mat reinforcement that comes as a carpet rolled-up. So instead of loose bars, they come on a welded mat that you roll out then roll another out in the opposite direction.	Morgan Sindall	Brings speed and efficiency with less men to place rebar (reduces fixing cost by up to 80% compared to conventual loose bar). However it does cost more than rebar. It also reduces waste and provides an occupational health plus, as men arenât having to lift, carry and bend as much. Typically up to 25% savings compared to traditional cut & bent bar reinforcement.	Groundworker	
Materials	For any underslab insulation and if we use Kingspan then they offer a product take back scheme.	Morgan Sindall	Reduces waste in skips and landfill.	Groundworker	Were applicable.
Re-use and Recovery	Cut and fill exercise to maximise use of excavate material.	Morgan Sindall	Min excavated material removed off site.	Groundworker	
Re-use and Recovery	Reusing excavated material for	Morgan Sindall	Reuse	Groundworker	

	temp walkways, hardstanding's or behind retaining walls.			
Re-use and Recovery	Reusing any excavated weathered rock for drainage backfill and crane bases.	Morgan Sindall	Reuse	Groundworker
Re-use and Recovery	Crush and reuse excess concrete - were applicable.	Morgan Sindall	Reuse	Groundworker
Re-use and Recovery	Recycle water using a water butt e.g. water from excavations for damping down.	Morgan Sindall	Reduces environmental impact and our carbon footprint. Uses less mains supply water.	Groundworker
Waste Reduction	Consider Pecafill permanent formwork as shuttering. Pecafill can be left in place after concrete has been pored and does not need to be disposed off site.	Morgan Sindall	Better than plywood shuttering. Can be left in place and doesn't become site waste.	Groundworker
Re-use and Recovery	Stormboard shuttering in lieu of plywood shuttering	Morgan Sindall	Does not rot, does not delaminate, smooth finish, multiple reuses, externally stored and can be recycled into another product at the end of its' life.	Groundworker

Forecast of waste types and amounts

Work Package	Subcontractor	Waste type	Waste Sub Type	Estimate amount (m3)	Estimate amount (tonnes)	Likely cause	Notes
Total				**0.0**	**0.0**		

Waste management options

Waste type	Reduce (%)	Reuse (%)	Direct Recycle (%)	Recovery (%)	Energy Recovery (%)	Landfilled/Disposal (%)	Container type	Waste Management contractor	Exemptions
Overall target	0%	0%	0%	0%	0%	0%			

Duty of care

Waste Management Contractor Name	Waste carrier license number	Issue date	Expiry date	Waste Transfer notes storage location

Have you registered with the Evironment Agency as a hazardous waste producer? :

Hazardous waste registration number:

Date of issue: Date of expiry:

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

Communication

The plan is being communicated by:

Meetings : ✓
Posters : ✓
Feedback from staff : ✓
other, please state : ✓ Regular meetings

Waste Data

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

no waste data has yet been added

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Waste types and routes

Project Performance	Tonnage	Mixed	Segregated	Waste management routes percentages					tonnes/100m^2	tonnes /£100k
	(tonnes)	(%)	(%)	Reuse	Recovery	Recycle	Disposal	Energy Recovery		
Bricks (17 01 02)	0.00	0	100	-	-	-	-	-	0.0	0.0
Tiles and Ceramics (17 01 03)	0.00	0	100	-	-	-	-	-	0.0	0.0
Concrete (17 01 01)	0.00	0	100	-	-	-	-	-	0.0	0.0
Inert (17 01 07)	0.00	0	100	-	-	-	-	-	0.0	0.0
Insulation materials (non hazardous) (17 06 04)	0.00	0	100	-	-	-	-	-	0.0	0.0
Metals (17 04 07)	0.00	0	100	-	-	-	-	-	0.0	0.0
Packaging materials (15 01 06)	0.00	0	100	-	-	-	-	-	0.0	0.0
Plasterboard / Gypsum (17 08 02)	0.00	0	100	-	-	-	-	-	0.0	0.0
Binders (17 01 01)	0.00	0	100	-	-	-	-	-	0.0	0.0
Plastic (excluding packaging waste) (17 02 03)	0.00	0	100	-	-	-	-	-	0.0	0.0
Timber (17 02 01)	0.00	0	100	-	-	-	-	-	0.0	0.0

Floor coverings (soft) (20 01 11)	0.00	0	100	-	-	-	-	-	0.0	0.0
Electrical and electronic equipment (non hazardous) (20 01 36 or 16 02 14)	0.00	0	100	-	-	-	-	-	0.0	0.0
Furniture (20 03 07)	0.00	0	100	-	-	-	-	-	0.0	0.0
Canteen/Office/Adhoc waste (20 03 01)	0.00	0	100	-	-	-	-	-	0.0	0.0
Liquids (16 10 02)	0.00	0	100	-	-	-	-	-	0.0	0.0
Waste paint & varnish (non-hazardous) (08 01 12)	0.00	0	100	-	-	-	-	-	0.0	0.0
Oils (13 01 13*)	0.00	0	100	-	-	-	-	-	0.0	0.0
Soils (17 05 04)	0.00	0	100	-	-	-	-	-	0.0	0.0
Bituminous mixtures (non hazardous e.g. asphalt) (17 03 02)	0.00	0	100	-	-	-	-	-	0.0	0.0
Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified (19 12)	0.00	0	100	-	-	-	-	-	0.0	0.0
Wastes from soil and groundwater remediation (19 13)	0.00	0	100	-	-	-	-	-	0.0	0.0
Hazardous waste*	0.00	0	100	-	-	-	-	-	0.0	0.0
Other waste	0.00	0	100	-	-	-	-	-	0.0	0.0
Mixed construction and/or demolition waste (17 09 04)	0.00	0	100	-	-	-	-	-	0.0	0.0

Current actual waste quantities versus forecasted quantities

Waste type	Waste Sub Type	Forecast quantity (tonnes)	Actual (tonnes)	Difference	% Difference
		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

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 4/8/2020

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 types and routes	
Cost of non-hazardous waste / tonne	-
Cost of inert waste / tonne	-
Cost of hazardous waste / tonne	-

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