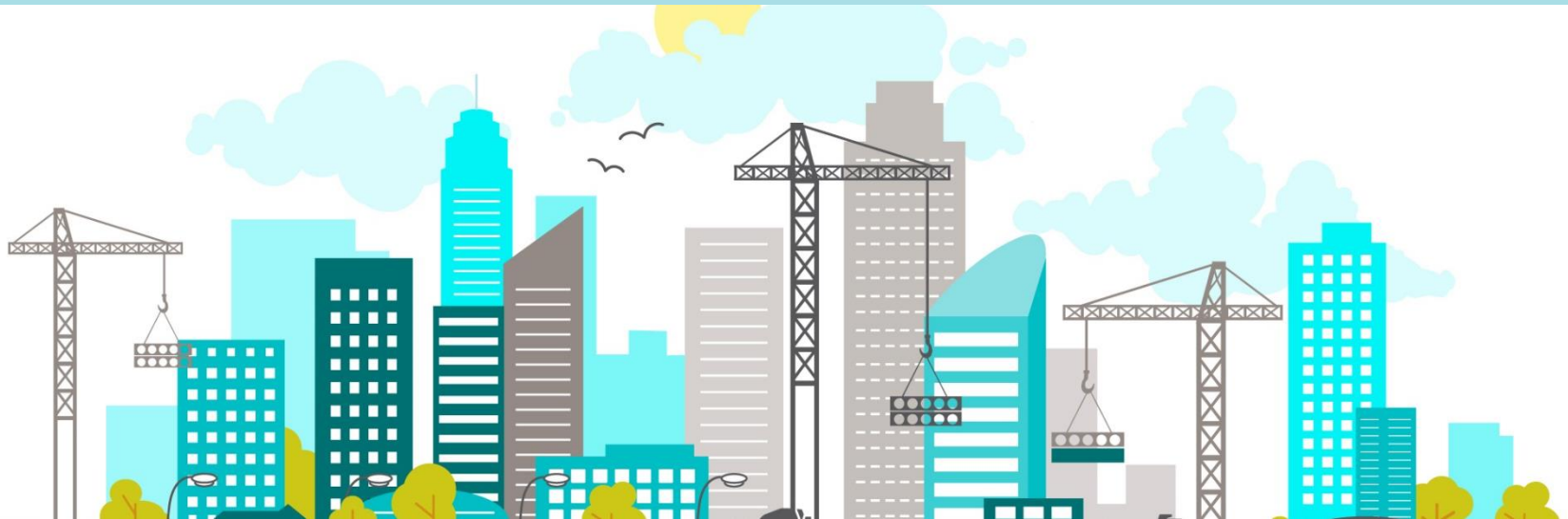


SmartWaste environmental reporting tool Ireland Green Building Council 12 April 2022



BRE SmartWaste measures all your site based resource use and waste in one easy to use and accessible online tool



Waste



Energy



Water



Materials



Transport



Pre-demolition



Biodiversity



Social Value

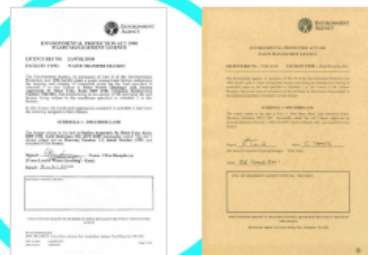


Incidents



Project Management

SmartWaste helps clients to ensure they are fully compliant with waste regulations...



Environment Agency

Registered Waste Carrier



SMARTSITE

SmartWaste Benefits



Waste Compliance



**Reporting against
key commitments**



**Tracking BREEAM &
CEEQUAL compliance**



**One system for
capturing all
environmental data**



**Automatic data
capture**



**Simplifies your
KPI reporting**



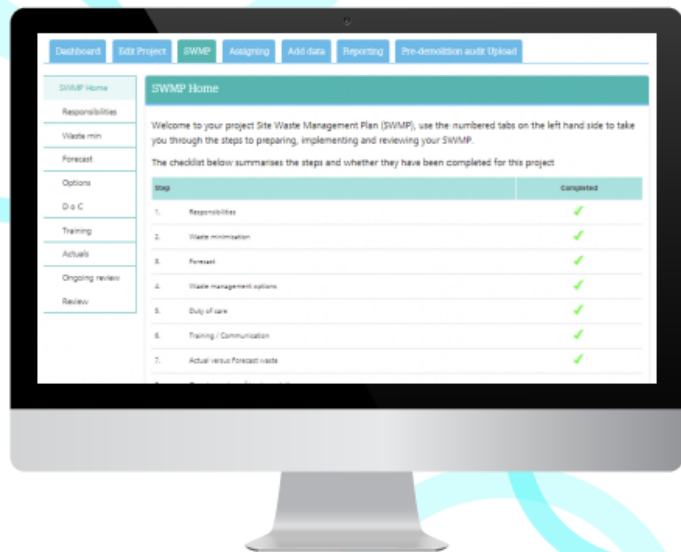
**Landfill
avoidance &
reduced costs**

SMARTSITE

Who uses our tools?



It's really easy to capture site data in SmartWaste...



SmartWaste
online form



Excel
upload form

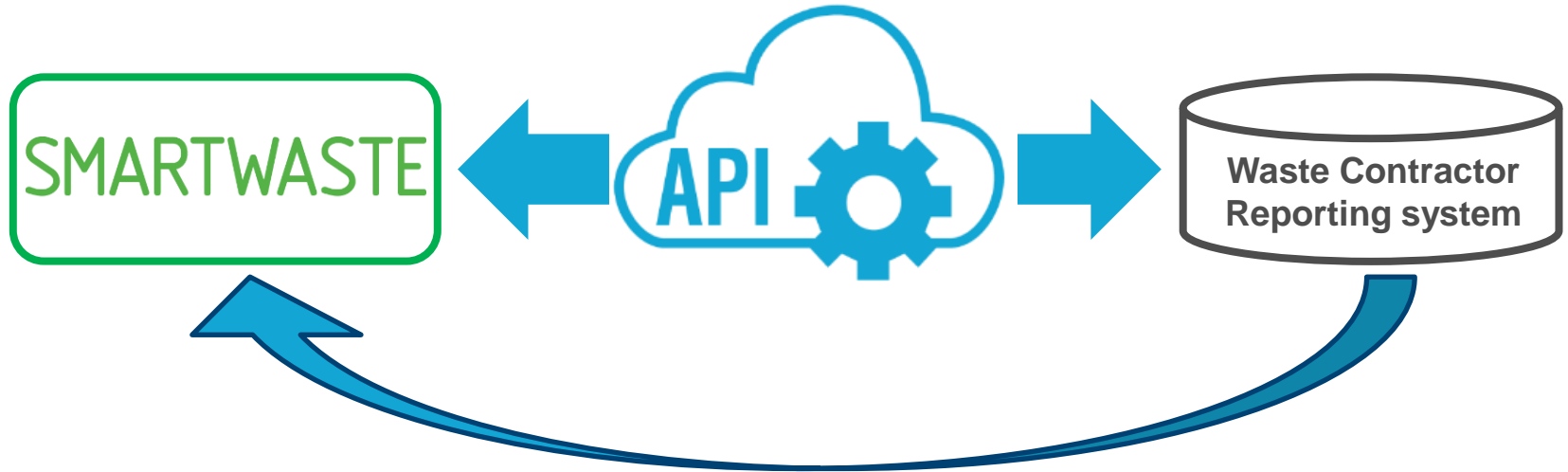


CSV (Excel)
upload form



SmartWaste API

The SmartWaste API solution links a client's Waste Management Contractor reporting systems for direct data transfer



SMARTSITE

Extracting KPI data from SmartWaste



You can produce your Site Waste Management Plans in SmartWaste...

SMARTSITE
delivered by **bre**

Preparing / implementing your SWMP

Dashboard Edit Project **SWMP** Assigning Add data Reporting Pre-demolition audit Upload

SWMP Home

Responsibilities

Waste min

Forecast

Options

D o C

Training

Actuals

Ongoing review

Review

SWMP Home

Welcome to your project Site Waste Management Plan (SWMP), use the numbered tabs on the left hand side to take you through the steps to preparing, implementing and reviewing your SWMP.

The checklist below summarises the steps and whether they have been completed for this project

Step	Completed
1. Responsibilities	✓
2. Waste minimisation	✓
3. Forecast	✓
Waste management options	✓
5. Duty of care	✓
6. Training / Communication	✓
7. Actual versus Forecast waste	✓

Site Waste Management Plan

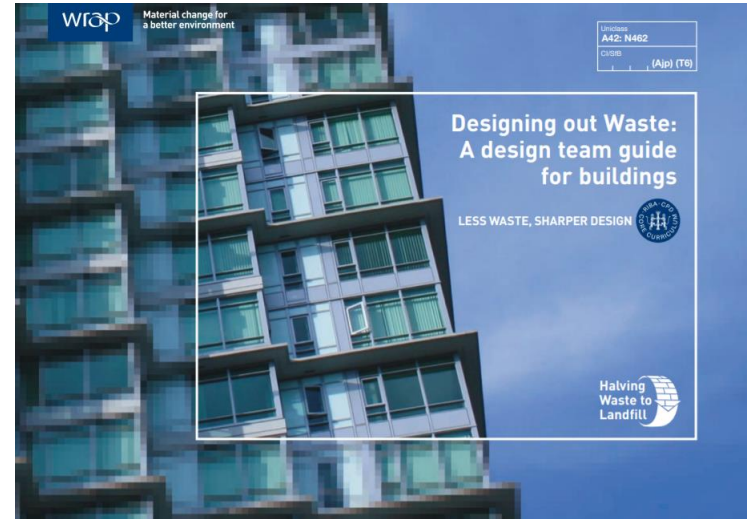
Preparation
Implementation

- Step 1 Responsibilities
- Step 2 Waste Minimisation
- Step 3 Waste Forecast
- Step 4 Waste Management Options
- Step 5 Duty of Care
- Step 6 Training & Communications
- Step 7 Actuals versus Forecast
- Step 8 Ongoing Review
- Step 9 Review



Five principles of Designing out Waste

- Design for Reuse and Recovery
- Design for Off Site Construction
- Design for Materials Optimisation
- Design for Waste Efficient Procurement
- Design for Deconstruction and Flexibility



- The following slides provide further guidance on what you should consider
- Drop down includes the **five principles of designing out waste**

Add waste minimisation

Please use the table below to record decisions taken before the plan was drafted on the project, design, construction methods and material to plan waste minimisation:









Type	<input type="text" value="Select..."/>
Decision taken	<input type="text"/>
By whom	<input type="text"/>
Intended results	<input type="text"/>
Carried out by	<input type="text"/>
Comments	<input type="text"/>








At what RIBA plan of works stage has this been considered?

The dropdown menu contains the following options:

- Select...
- Project nature
- Design
- Demolition methods
- Construction methods
- Materials
- Other
- Re-use and Recovery
- Off Site Construction
- Materials Optimisation
- Waste Efficient Procurement
- Deconstruction and Flexibility
- Waste Management/Recovery
- Waste Prevention
- Waste Reduction

Five principles
of designing out
waste

Materials	Where required, provide secure storage / lay-down areas for construction materials	Main contractor / sub-contractor	Prevent damage caused through improper storage of materials		Edit Delete
Materials	Implement a just-in-time delivery system for construction materials	Main contractor / sub-contractor	Reduce waste caused through double handling and improper storage of materials		Edit Delete
Materials	Crush, screen and reuse concrete, brick, tile and other ceramic material. All recycled aggregate produced on site will conform to the requirements of the Quality Protocol for the Production of Aggregates.	Main contractor / sub-contractor	Reduce demolition materials removed from site and / or the import of virgin aggregates		Edit Delete
Materials	Salvage and retain school / office furniture for future use	Main contractor / sub-contractor	Eliminate this specific, bulky waste stream		Edit Delete
Materials	Mortar silo to be installed and operated on site	Main contractor / sub-contractor	Reduce the volume of bricklaying mortar wasted		Edit Delete
Materials	Reuse roof tiles, bricks, stone features and fireplaces elsewhere on site	Main contractor / sub-contractor	Reduce waste and new material requirements		Edit Delete
Materials	Reduce packaging materials	Main contractor / sub-contractor	Reduce packaging waste		Edit Delete
Construction methods	Use pre-cast chambers for drainage system	Main contractor / sub-contractor	Avoid in-situ concrete pours and associated waste		Edit Delete

Materials	Materials, e.g. bricks, blocks and timbers will be kept off the ground by using pallets or timber bites	Main contractor / sub-contractor	Reduce damage to materials due to improper storage		Edit Delete
Materials	Where practicable, materials will be unloaded where they are required	Main contractor / sub-contractor	Reduce damage to materials due to improper storage		Edit Delete
Materials	Pre-load correct quantities of the required materials in work areas	Main contractor / sub-contractor	Reduce damage to materials due to improper storage		Edit Delete
Materials	Timber doors, window frames, etc. to remain wrapped in a dry location until installation	Main contractor / sub-contractor	Reduce damage to materials due to improper storage		Edit Delete
Materials	Liaise with supply chain to reduce packaging materials, e.g. takeback schemes or reusable packaging	Main contractor / sub-contractor	Eliminate / reduce packaging wastes		Edit Delete
Construction methods	Trenches to be sheeted rather than battered to	Main contractor / sub-contractor	Reduce excavated wastes		Edit Delete
Construction methods	System shuttering to be used wherever practicable	Main contractor / sub-contractor	Eliminate timber shuttering wastes		Edit Delete

Dashboard

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Reporting

SWMP Home

Responsibilities

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Forecast

Options

D o C

Training

Actuals

Add forecast

Work Package

Groundworks & excavation ▾

Sub contractor

Subcontractor 1 ▾

Waste type *

Select

Bricks (17 01 02)

Tiles and Ceramics (17 01 03)

Concrete (17 01 01)

Inert (17 01 07)

Insulation materials (non hazardous)

Metals (17 04 07)

Packaging materials (15 01 06)

Plasterboard / Gypsum (17 08 02)

Binders (17 01 01)

Plastic (excluding packaging waste) (17 02 03)

Timber (17 02 01)

Floor coverings (soft) (20 01 11)

Electrical and electronic equipment (non hazardous) (20 01 36 or 16 02 14)

Furniture (20 03 07)

Canteen/Office/Adhoc waste (20 03 01)

Liquids (16 10 02)

Waste paint & varnish (non-hazardous) (08 01 12)

Select

Aggregates (17 01 07)

Stone (17 05 04)

Slate (17 01 03)

Glass (uncontaminated) (17 02 02)

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[Review](#)

Forecast

For guidance around classifying different types of waste click [here](#)

Please estimate the types and amount of waste you expect to be generated:

Work Package	Subcontractor	Waste type	Waste Sub Type
First Fix	Subcontractor 2	Insulation materials (non hazardous) (17 06 04)	
Not specified		Packaging materials (15 01 06)	
Total			

Waste benchmark calculator

The data used in the calculator is derived from projects on the SmartWaste system; BRE undertakes purposes only. The benchmarks are based on completed new build projects and the construction groundworks waste. Benchmarks for soil are no longer available and soil waste arisings should be

[Open benchmark calculator](#)


Waste Benchmark Calculator

These figures are calculated based on your floor area of 1500.0 m² and your project type of Residential

If you have not entered a floor area, this table will not be populated.

Product	Volume (m ³)
Bricks (17 01 02)	18.40
Tiles and Ceramics (17 01 03)	1.76
Concrete (17 01 01)	20.83
Inert (17 01 07)	46.91
Insulation materials (non hazardous) (17 06 04)	8.27
Metals (17 04 07)	5.11
Packaging materials (15 01 06)	23.69
Plasterboard / Gypsum (17 08 02)	18.78
Binders (17 01 01)	1.29
Plastic (excluding packaging waste) (17 02 03)	9.97
Timber (17 02 01)	37.30
Floor coverings (soft) (20 01 11)	0.81
Electrical and electronic equipment (non hazardous) (20 01 36 or 16 02 14)	0.60
Furniture (20 03 07)	0.17
Canteen/Office/Adhoc waste (20 03 01)	8.12
Liquids (16 10 02)	0.64
Oils (13 01 13*)	0.03
Bituminous mixtures (non hazardous e.g. asphalt) (17 03 02)	2.36
Hazardous waste*	2.34
Other waste	10.93
Mixed construction and/or demolition waste (17 09 04)	65.97

- A full list of your waste product forecasts will be displayed
- You can update your waste forecasts throughout the project lifetime

Forecast

For guidance around classifying different types of waste click [here](#)

Please estimate the types and amount of waste you expect to be generated:

Work Package	Subcontractor	Waste type	Waste Sub Type	Estimate amount (m3)	Estimate amount (tonnes)	Likely cause
Construction	Subcontractor 1	<u>Timber (17 02 01)</u>		~ 882.4	300.0	Standardised materials
Superstructure	Subcontractor 2	<u>Metals (17 04 07)</u>		~ 595.2	250.0	Standardised materials
Construction		<u>Mixed construction and/or demolition waste (17 09 04)</u>		~ 3,125.0	1,000.0	Other
Fixtures & fittings		<u>Packaging materials (15 01 06)</u>		~ 238.1	50.0	Packaging
Groundworks & excavation	Subcontractor 4	<u>Soils (17 05 04)</u>		~ 2,400.0	3,000.0	Excavation
Groundworks & excavation	Subcontractor 1	<u>Inert (17 01 07)</u>	Aggregates (17 01 07)	~ 4,838.7	6,000.0	Demolition
Not specified		<u>Other waste</u>	Soil and stones (20 02 02)	~ 1,200.0	1,500.0	Excavation
Plastering	Subcontractor 3	<u>Plasterboard / Gypsum (17 08 02)</u>		~ 166.7	55.0	Standardised materials
Total				13,446.1	12,155.0	

Reduce



Reduce waste generated through better design and construction site practices, efficient material handling, and waste management

Reuse



Reuse materials in their existing form. No processing or recycling required. e.g. reuse of soil & stone, bricks, aggregates on/off site

Recycle



Direct recycling of waste materials. Requires segregation of waste onsite. Waste typically sent directly to a material re-processor or specialist recycler. e.g. metals, timber, concrete

Recovery



All waste materials sent offsite for recycling via a material treatment facility. Materials are mechanically sorted, separated, treated and recycled and/or sent for energy recovery. e.g. mixed construction waste

Landfill



Waste materials sent direct to landfill e.g. hazardous waste like asbestos, or non-recyclable waste materials sent to landfill via a waste treatment facility

Edit waste management options

Waste type	<div style="border: 1px solid black; padding: 2px;"><p>Select</p><p>Aggregates (17 01 07)</p><p>Metals (17 04 07)</p><p>Packaging materials (15 01 06)</p><p>Plasterboard / Gypsum (17 08 02)</p><p>Timber (17 02 01)</p><p>Soils (17 05 04)</p><p>Mixed construction and/or demolition waste (17 09 04)</p><p>Soil and stones (20 02 02)</p></div>	(if a product is not in the list you need to forecast it first)
Reduce		How will this be achieved
		Use less soil from the ground
Reuse	Onsite	<input type="text" value="40"/> Retain and reuse 1000 tonnes of soil onsite
	Offsite	<input type="text" value="40"/> Reuse 1000 tonnes of soil off site
Direct Recycle	Onsite	<input type="text" value="0"/>
	Offsite	<input type="text" value="0"/>
Recovery	Onsite	<input type="text" value="0"/>
	Offsite	<input type="text" value="0"/>

Dashboard Edit Project **SWMP** Assigning Add data Reporting

SWMP Home
Responsibilities
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Actuals
Ongoing review
Review

Waste management options

Reduce	<input type="text" value="15"/>
Reuse	<input type="text" value="15"/>
Recycle	<input type="text" value="25"/>
Recover	<input type="text" value="40"/>
Energy Recovery	<input type="text" value="0"/>
Dispose	<input type="text" value="5"/>

Save Cancel

Overall target ⓘ 15 % 15 % 25 % 40 % 0 % 5 %

All required information on this page has been entered.

Save

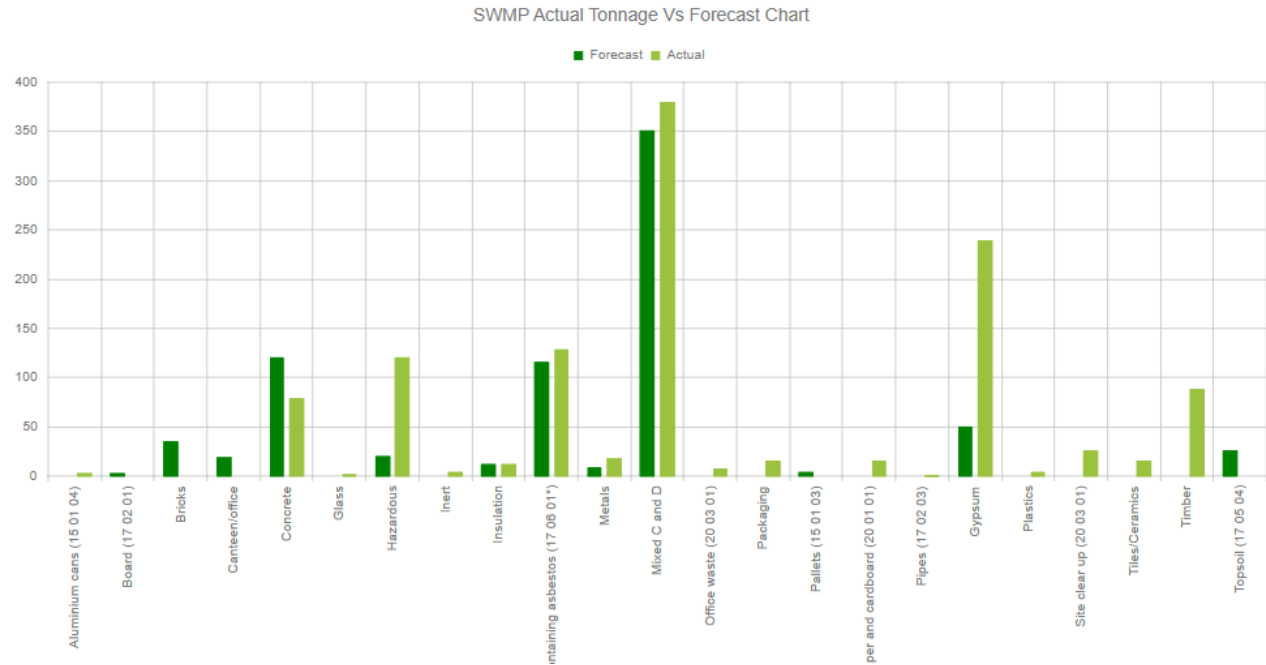
- Setting % targets for:
 - Reduce
 - Reuse
 - Recycle
 - Recover
 - Energy Recovery
 - Landfill
- Required for BREEAM credits



[Dashboard](#)
[Edit Project](#)
[SWMP](#)
[Assigning](#)
[Add data](#)
[Reporting](#)

- SWMP Home
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- Options
- D o C
- Training
- Actuals
- Ongoing review
- Review

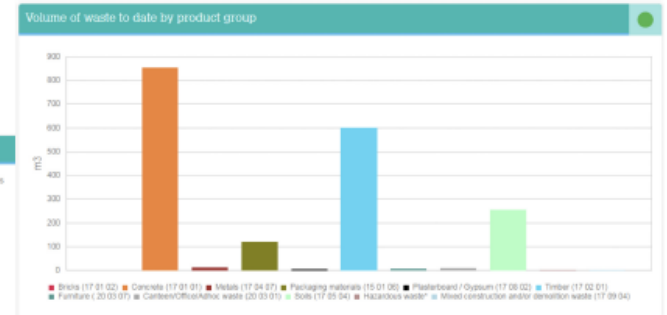
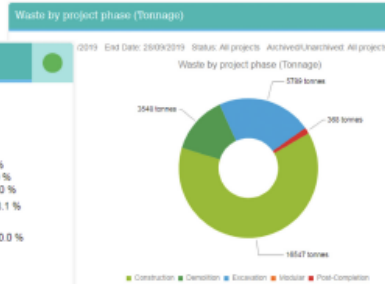
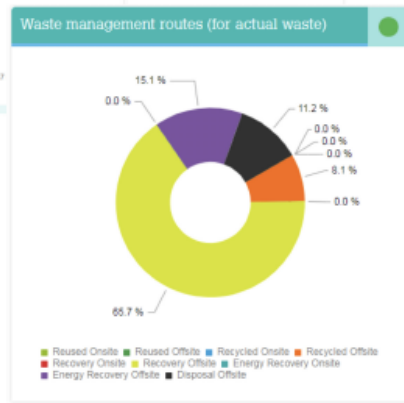
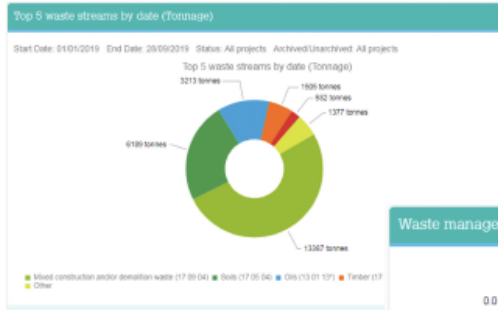
SWMP Actual Tonnage Vs Forecast Chart



- Comparison of your **Actual % vs forecast % by waste management route**

Actual % vs forecast % by waste management route ⓘ		
	Forecast %	Actual %
Reuse	15	51.7
Direct recycle	25	16.7
Recovery	40	28.5
Energy Recovery	0	1.5
Landfilled/Disposal	5	1.6

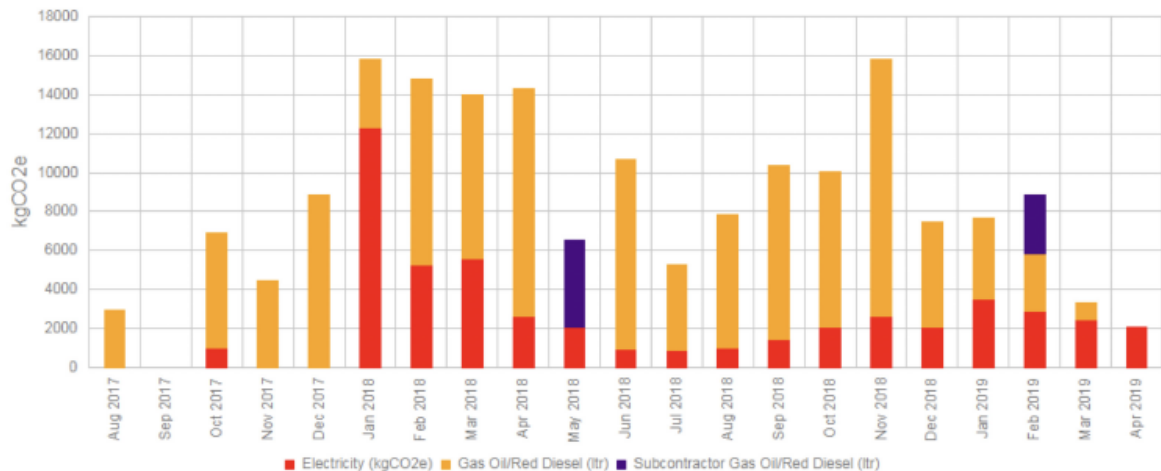
Lots of eye-catching and super useful waste charts and reports...



Energy, water and transport charts and reports...



CO₂e by Month and Source

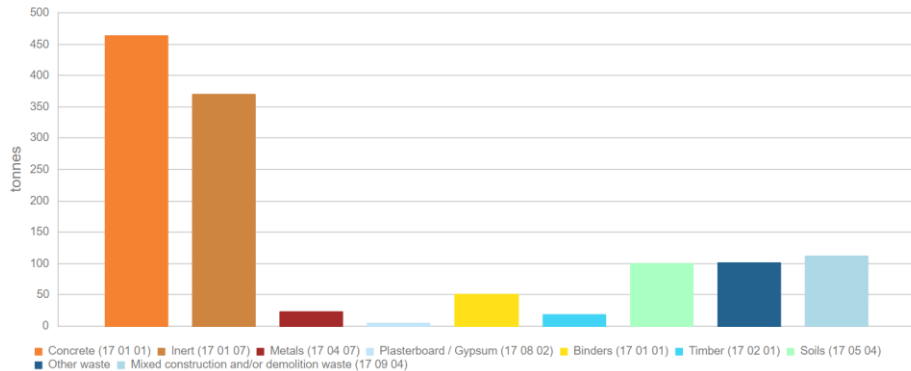


Date of transfer	WTN	Carrier	Destination	Subcontractor	Construction Phase (Work package)	Number and size of containers	Segregated	Product	Tonnage	kgCO2e from waste management process ¹
9/10/2020 R4 Recycling/reclamation of metals	12353	Waste Company 01	Waste 1 Ltd - Material Recycling Facility, Watford (ABC)	Subcontractor 1	Construction	1 x 10 cu yd skip (7.6 cu metre)	✓ Recovery offsite	Metals (17 04 07)	5,000	5.04
16/9/2020	12360	Waste Company 01	Waste 1 Ltd - Material Recycling Facility, Watford (ABC)	Subcontractor 1	Construction	1 x 10 cu yd skip (7.6 cu metre)	✗ Recovery offsite	Mixed construction and/or demolition waste (17 09 04)	8,000	121.60
16/9/2020 Plasterboard recycling	12360	Waste Company 01	Waste 1 Ltd - Material Recycling Facility, Watford (ABC)	Subcontractor 1	Construction	1 x 10 cu yd skip (7.6 cu metre)	✗ Recycle offsite	Plasterboard / Gypsum (17 08 02)	2,200	46.90

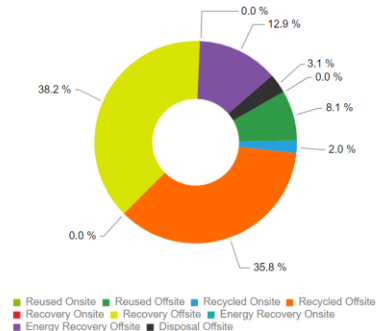
Actual waste sent offsite ¹

	Total (t)	t/£100k ¹	t/100m ² ¹	Diverted from landfill (t)	Diverted from landfill (%)
Construction	776.3	62.1	-	737.9	95.05
Demolition	436.9	35.0	-	436.9	100.00
Excavation	0.0	0.0	-	0.0	0.00
Modular	0.0	0.0	-	0.0	0.00
Post-Completion	3.2	0.3	-	3.2	100.00
Total (offsite):	1,216.4	97.3	-	1,178.0	96.84
Total (offsite & onsite):	1,241.4	99.3	-	1,203.0	96.90

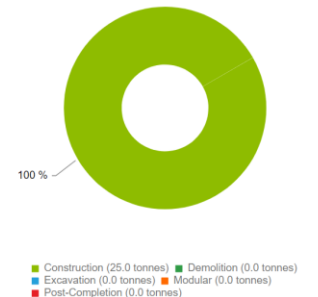
Tonnage of waste to date by product group



Waste management routes (for actual waste)



Actual waste (onsite)



Dashboard Edit Project SWMP Assigning Add data Reporting Pre-demolition audit Upload

Project data

Electricity

Project spend

Waste cost Total kg CO₂e: 63,860.9

Waste Total kWh: 235,135.0

Energy Total Cost: £ 20,238.5

Electricity

Natural gas

Fuel

Water

Water usage

Water discharge

Materials

CCS

Transport

Material Transport

Waste Transport

Staff Transport

Biodiversity and Ecology

Project Management

North Gate Meter 1 Electricity Meter (kWh)

Use: Permanent supply

Meter Reference ID Number: MPAN1167890

Reporting period	Usage (kWh)	kg CO ₂ e	Cost (£)	Evidence	A
<u>1/8/2021 - 31/8/2021</u>	25,000.0	7,282.5	3,750.00		
<u>1/7/2021 - 31/7/2021</u>	15,000.0	4,369.5	2,250.00		
<u>1/6/2021 - 30/6/2021</u>	6,000.0	1,747.8	900.00		
<u>1/5/2021 - 31/5/2021</u>	53,100.0	15,468.0	7,965.00		

Edit Electricity data for Example Project 1

Electricity

Meter North Gate Meter 1

Date from * 1/8/2021 (dd/mm/yyyy)

Date to * 31/8/2021 (dd/mm/yyyy)

Reading (kWh) Start 210000.0 - Finish 235000.0 OR

Usage (kWh) 25000.00

Supporting evidence Choose file No file chosen

Upload additional evidence Choose file No file chosen

Any notes:

Add electricity meter

Edit Electricity data for Example Project 1

Electricity

Meter North Gate Meter 1

Date from * 1/8/2021 (dd/mm/yyyy)

Date to * 31/8/2021 (dd/mm/yyyy)

Reading (kWh) Start 210000.0 - Finish 235000.0 OR

Usage (kWh) 25000.00

Supporting evidence Choose file No file chosen

Upload additional evidence Choose file No file chosen

Any notes:

Select the relevant fuel type and complete the simple form with details of your site fuel deliveries including sub-contractor fuel use for Scope 3 reporting

You are here BRE SmartWaste Training Account (SB) > Commercial Office > Project data > Energy > Fuel > Add

Dashboard Edit Project SWMP Assigning Add data Reporting Pre-demolition audit Upload

Project data

Project spend

Waste cost

Waste

Energy

Electricity

Natural gas

Fuel

Water

Water usage

Water discharge

Add Fuel data for Commercial Office

Fuel Type Select ...
Gas Oil/Red Diesel
Petrol
Heating Oil
LPG
White Diesel
Biodiesel
HVO

Reporting period

Quantity ⓘ

Contractor ⓘ

Fuel Use *

Reference Number

Fuel delivery ticket

Any notes:

Fuel Type Gas Oil/Red Diesel

Date from * 1/11/2021 (dd/mm/yyyy)

Date to * 10/11/2021 (dd/mm/yyyy)

Quantity ⓘ 1000.0 litres

Contractor ⓘ ABZ Demolition Ltd

Fuel Use * Generator

Reference Number

Fuel delivery ticket No file chosen

Upload additional evidence No file chosen

Any notes:
Sub contractor red diesel use - Scope 3 emissions

- Company home
- Company details
- Users
- Company targets
- {Company_cost}
- Contractors
- Reporting
- Archive

- Contractors
- Waste management contractors
- Subcontractors
- Material suppliers
- Not in use

Material supply company certificate

Supplier company name: Travis Perkins

Certificate Scheme: FSC (Forest Stewardship Council)

Is the supplier Chain of Custody (CoC) certified? Yes

CoC Certificate Number: TT-COC-001671

Issue date (dd/mm/yyyy): 30/7/2018

Expiry date (dd/mm/yyyy): 29/7/2023



4

Scan of certificate [download](#)

- Types of Material
- Fibreboard (Compressed)
 - Fibreboard (lightly-compressed)
 - Joinery
 - Manufactured Product - non-pulp (general)
 - Manufactured Product - non-pulp (hardwood)
 - Manufactured Product - non-pulp (softwood)
 - Particleboard
 - Plated / machined wood (hard)
 - Plated / machined wood (soft)
 - Plywood

5

Tick all the relevant timber materials that are certified



CERTIFICATE OF REGISTRATION

This is to certify that
Travis Perkins Trading Company Ltd
 Lodge Way House
 Lodge Way
 Harlestone Road
 Northampton
 NN5 7UG

has been audited and found to meet the requirements of standard(s) FSC-STD-50-001 (Version 2.0) EN, FSC-STD-40-003 (Version 2.1) EN and FSC-STD-40-004 (Version 3.0) EN for FSC® Chain of Custody Certification

Scope of certification
 The Purchase, Importation, Storage, Processing, Sales and Distribution of FSC Certified Solid Wood and Sheet Materials (Transfer System), and the Outsourcing of Preservative and Machining Processes

- Products:**
- W4.1 Impregnated Round Wood
 - W4.2 Impregnated Railway Sleepers/Ties
 - W5 Solid Wood, W5.2 Solid Wood Boards
 - W6 Products from Planing Mill
 - W6.1 Dimensional Timber and Lumber, Finished
 - W8.1 Plywood, W8.2 Particleboard
 - W8.3 Fibreboard
 - W9 Engineered Wood Products
 - W11 Wood for Construction
 - W11.2 Windows and Frames
 - W11.3 Stairs, W11.5 Flooring
 - W11.8 Mouldings
 - W11.14 Trusses and Roofs
 - W12 Indoor Furniture
 - W12.11 Kitchen Countertops
 - W13 Outdoor Furniture and Gardening
 - W13.4 Fences, Fence Stakes, Pales
 - W13.5 Decking and Garden Sleepers
 - W13.6 Garden Sheds

Karen Prendergast

Karen Prendergast
 Sector Director - Certification
 Exova BM TRADA

Certificate number: TT-COC-001671
 Issue number: 2018-04
 Certificate start date: 30 July 2018
 Certificate expiry date: 29 July 2023
 Date of initial certification: 30 July 2003

Exova (UK) Ltd, (T/A Exova BM TRADA), Chilton House, Stocking Lane, High Wycombe, Buckinghamshire, HP14 4EQ, UK
 Registered Office: Exova (UK) Ltd, Lochland Industrial Estate, Newbridge, Midlothian EH26 9PL, United Kingdom. Reg No. SC032429.
 This certificate remains the property of Exova (UK) Ltd. This certificate and all copies or reproductions of the certificate shall be returned to Exova (UK) Ltd or approved IF equivalent. The validity of this certificate and the use of products covered by this certificate should be confirmed on www.bsc.trada.co.uk/Exova-Resources/Products

Company home | Company details | Users | Company targets | (Company_cost) | **Contractors** | Reporting | Archive

Contractors
Waste management contractors
Subcontractors
Material suppliers
Not in use

Material supply company certificate

Supplier company name: Knauf

Certificate Scheme: **BES6001**

Certificate Number: BE583202

Issue date (dd/mm/yyyy): 04/01/2018

Expiry date (dd/mm/yyyy): 03/01/2021

Scan of certificate: C:\Users\blofelds\OneDriv Browse...

Types of Material

<input type="checkbox"/> Cement/mortar/lime	<input type="checkbox"/> Situ
<input type="checkbox"/> Dressed or building stone including slate	<input type="checkbox"/> Cast
<input type="checkbox"/> Fixture and fittings: includes stair case, windows (frame and glazing units), doors (external), floor finishes and any other significant fitting or finish present	<input type="checkbox"/> Glass
<input type="checkbox"/> Metals - Other	<input type="checkbox"/> Metals - Structural steel
<input type="checkbox"/> Other mineral-based materials, including fibre cement and calcium silicate	<input checked="" type="checkbox"/> Plasterboard and plaster

Select..
FSC (Forest Stewardship Council)
PEFC (Programme for the Endorsement of Forest Certification)
CSA (Canadian Standards Association)
SFI (Sustainable Forestry Initiative)
MTCs (Malaysian Timber Certification Scheme)
BES6001
BS8902
ISO14001
Eco-Reinforcement
CARES Sustainable Constructional Steel
WRAP Quality Protocol
BES6002: Ethical Labour Sourcing (ELS) Standard
Other




By Royal Charter

Certificate of Registration

RESPONSIBLE SOURCING OF CONSTRUCTION PRODUCTS

This is to certify that:

Knauf UK GmbH
Kernsley Fields Business Park
Sittingbourne
ME9 8SR
United Kingdom

Holds Certificate Number: **BES 583202**

and complies with the requirements of BES 6001: Issue 3.1 - Framework Standard for the Responsible Sourcing of Construction Products for the following scope. This Responsible Sourcing certification has been carried out under licence using BRE's Responsible Sourcing scheme methodology and underpinning processes.

Product Group: Plasterboard (laminated and non-laminated) and gypsum powders

Overall Assessment Score: Excellent

For and on behalf of BSI:

Andrew Launn
Andrew Launn, EMEA Systems Certification Director

Original Registration Date: 2013-01-03
Latest Revision Date: 2018-11-08

Effective Date: 2018-01-04
Expiry Date: 2021-01-03

Page: 1 of 3

...making excellence a habit™

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract. An electronic certificate can be [authenticated online](#). Printed copies can be validated at www.bsigroup.com/ClientDirectory.
Information and Contact: BSI, Kilnmark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PR Tel: +44 345 080 9000
BSI Assurance UK Limited, registered in England under number 7965312 at 389 Chiswick High Road, London W4 4AL, UK.
A Member of the BSI Group of Companies.

- Dashboard
- Edit Project
- SWMP
- Assigning
- Add data**
- Reporting
- Pre-demolition audit

- Project data
- Project spend
- Waste cost
- Waste
- Energy
- Electricity
- Natural gas
- Fuel
- Water
- Water usage
- Water discharge
- Materials
- CCS**
- Transport
- Material Transport
- Waste Transport
- Staff Transport

Edit Project CCS

CCS Site ID *

Date of visit *

Monitor's name *

Code

Care about Appearance

Respect the Community

Protect the Environment

Secure Everyone's Safety

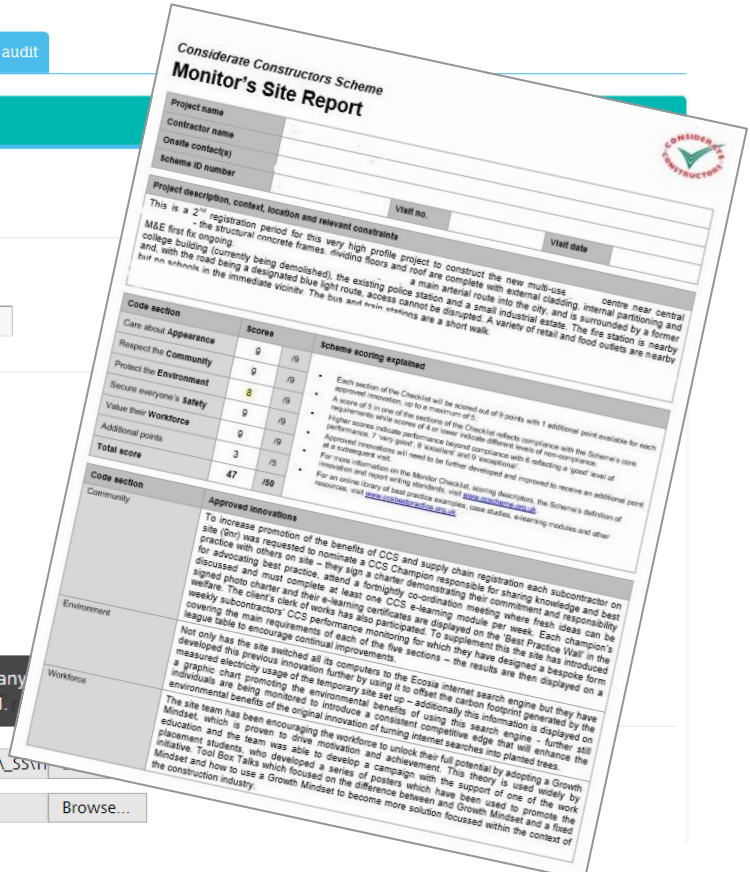
Value the Workforce

Additional innovation points

Scan of report

Additional evidence

Upload any BREAM.



Simple forms to report on your project transport carbon emissions

Add material transport

[Click here](#) to upload SmartWaste transport data entry form

Date of travel * (from)

Date of travel * (to)

Number of vehicles *

Total distance for vehicles (Miles) ⓘ* entered in Kms

Material type *

Building element ⓘ

Supplier *

Supplier additional details

Mode of transport *

Vehicle type *

Fuel type

Total fuel consumption for vehicles (ltr) ⓘ

Add staff transport

[Click here](#) to upload SmartWaste transport data entry form

Date of travel * (from)

Date of travel * (to)

Total distance (Miles) ⓘ* entered in Kms

Supplier additional details

Staff Type

Staff

Staff Name


Mode of transport *


Vehicle type *

Fuel type

Total fuel consumption (ltr) ⓘ

All transport and carbon data is summarised for waste, materials and staff transport

Date of Travel (from)	Date of Travel (to)	Number of vehicles	Total distance Travelled (Kms)	Total distance Travelled (Miles)	Material Type	Where used in building 	Supplier/ Waste Carrier	Mode of Transport	Vehicle Type	Fuel Type	Total fuel consumption for vehicles (litres)	kgCO2e
17/12/2019	17/12/2019	4	80.47	50.00	Timber/ timber-based products (TBP)	Internal walls	Travis Perkins	Road	HGV - Rigid (3.5 - 7.5 tonnes)	Diesel	15.15	39.6
10/12/2019	10/12/2019	1	80.47	50.00	Glass	Windows	Travis Perkins	Road	Van - Class II (1.305 to 1.74 tonnes)	Diesel	10.00	15.7
1/12/2019	31/12/2019	1	160.93	100.00	Stone/ aggregate	Ground works	Travis Perkins	Road	Van - Average (up to 3.5 tonnes)	Diesel	0.00	40.6

1/12/2019	1/12/2019	Total	kgCO2e	kgCO2e /£100k 	Distance Travelled (Kms)	Distance Travelled (Miles)	Fuel Consumption (litres)
13/11/2019	13/11/2019	Materials	3,101.1	26.5	3,816.4	2,371.4	1,035.2
12/11/2019	12/11/2019	Staff	15,480.9	132.2	79,187.7	49,205.0	3,333.3
		Waste	1,187.1	10.1	1,268.1	788.0	366.7
		Total	19,769.1	168.8	84,272.3	52,364.4	4,735.3

Upload project ecological survey reports and record a site's biodiversity and ecology features

Biodiversity and ecology feature	Plan Reference	Condition of Feature	Type of Biodiversity Impact	Have all appropriate actions for this feature been planned	Predicted Biodiversity Impact	Actual Impact	Number of actions	Number of actions completed	Created by company	Actions
<u>Statutory Protected Species: Badgers</u>	Badger Survey			No						View Delete
<u>Habitat Of High Conservation Value: Mature Trees</u>	Arboricultural Survey	Favourable	Potential Disturbance	No						View Delete
<u>Invasive Species: Japanese Knotweed</u>	Invasive Species Survey	Unfavourable Recovering	N/A	No						View Delete

Edit Biodiversity and ecology features

Biodiversity and ecology features

Plan Reference

Description of feature

Condition of Feature

Type of Biodiversity Impact

Number/m²

Have all appropriate mitigation actions for this

- Invasive Species: Japanese Knotweed
- Habitat Of High Conservation Value: Scrub
- Habitat Of High Conservation Value: Species Rich Grassland
- Habitat Of High Conservation Value: Heathland
- Statutory Protected Species: Amphibians
- Statutory Protected Species: Badgers
- Statutory Protected Species: Bats
- Statutory Protected Species: Crayfish
- Statutory Protected Species: Aquatic Invertebrate
- Statutory Protected Species: Otters
- Statutory Protected Species: Water voles
- Statutory Protected Species: Birds
- Statutory Protected Species: Reptiles
- Statutory Protected Species: Salmonid Fish
- Species Of High Conservation Value: Amphibians
- Species Of High Conservation Value: Aquatic Invertebrate
- Species Of High Conservation Value: Reptiles
- Species Of High Conservation Value: Fish
- Invasive Species: Himalayan Balsam
- Invasive Species: Japanese Knotweed

Add

Create a Biodiversity Action Log to track and record actions taken to improve and manage ecological features onsite

Action log

Action log for:

Biodiversity and ecology feature: Habitat Of High Conservation Value: Mature Trees

Plan reference: Arboricultural Survey

Description feature:

Type of biodiversity impact: Potential Disturbance

Number/m² ⓘ: 0.0

No.	Action Required	Number/m ²	Actionee name	Actionee job title	Date started	Completed	Date	by	time? ⓘ	Comments	by	Date	Information	Action required?	Company ⓘ	
1	Tree Protection: Tree protection zones installed as recommended by the Arboricultural report (attached)	5.0					No				SWtrainer Admin	15/9/2020		No		Edit Delete
2	Tree Protection: An appointed ecologist was in attendance	0.0					No				SWtrainer Admin	15/9/2020		No		Edit Delete
3	Tree Protection: Best practice guidelines were exercised	0.0	stu		30/9/2020	Yes	1/9/2020	SWtrainer Admin	●		SWtrainer Admin	15/9/2020		No		Edit Delete

Select...

- Tree removal: Findings of tree reports attached (tree survey report and arboricultural report attached)
- Tree Protection: Tree protection zones installed as recommended by the Arboricultural report (attached)
- Tree Protection: An appointed ecologist was in attendance
- Tree Protection: Best practice guidelines were exercised
- TBT Bird: TBT training on Bird species given to all workers on site (TBT attached)
- TBT Bat: TBT training on Bat species given to all workers on site (TBT attached)
- TBT Grey Squirrel: TBT training on Grey Squirrel species given to all workers on site (TBT attached)
- TBT Tree Protection: TBT training on tree protection given to all workers on site (TBT attached)
- TBT Talk: Signature of evidence recorded on the TBT sheet (attendance sheet attached)
- Planting and Seeding: Planting and seeding of:
- Planting and Seeding: An appointed ecologist was in attendance
- Planting and Seeding: Best practice guidelines were exercised
- Japanese knotweed: The remediation of land where consultants/site team have identified the invasive specie Japanese knotweed (information attached)
- Japanese knotweed: An appointed ecologist was in attendance
- Japanese knotweed: Best practice guidelines were exercised
- Further Bat Survey: Further Bat survey conducted at pre-works, as recommended by an appointed ecologist (Bat survey is attached)
- Further Bat Survey: An appointed ecologist was in attendance
- Further Bat Survey: Best practice guidelines were exercised

Record and investigate environmental incidents

Add environmental incidents, complaints, authority notices and visits

Date *	<input type="text" value="01/09/2020"/>
Type *	<input type="text" value="Authority Notice"/>
Notifying Party ⓘ*	<input type="text" value="BRE SmartWaste Training Account (SB)"/>
Topic Area *	<input type="text" value="Select..."/> * This field is required
Incident Location	<input type="text" value="Select..."/>
Category *	<input type="text" value=""/>
Immediate Cause	<input type="text" value="Select..."/>
Description	<input type="text" value=""/>
Actions taken	<input type="text" value=""/>
Upload Evidence	<input type="text" value=""/>
Upload additional evidence	<input type="text" value=""/>
Comments	<input type="text" value=""/>

- Air
- Behaviour
- Dust
- Ecology
- Environmental health
- Foul sewer
- Ground
- Hazardous substance spill
- Lighting
- Noise
- Other
- Property damage
- Site housekeeping
- Surface water
- Traffic management
- Vibration
- Waste

- Breach of Permit / Exemption / MMP
- Burning Materials on Site
- Damage to Archaeological / Heritage Asset
- Damage to ecologically designated site
- Damage to tree or hedge
- Disturbance of protected species
- Dust Pollution
- Excessive Noise
- Excessive Odour
- Failure of contaminated land containment measures/management
- Fish Kill
- Ground contaminated by oil/diesel/chemical spill
- Mud / Debris on Highway
- Non-compliance with planning permission / condition

Set project targets

Set the start and end date you would like the targets to apply for and expand out the sections, they need to be assigned to your account first which can be done [here](#) by a

Start date *

End date *

Waste +

Energy +

Water +

Materials +

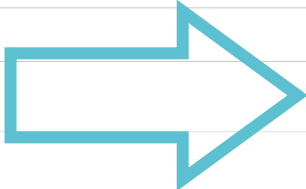
Transport +

BREEAM +

CCS +

Carbon +

Social Value +



Amount (£) spent with the local supply chain	<input type="text" value="50000"/>	£
Amount (£) spent by your supply chain with local Micro, Small and Medium Enterprises (MSMEs)	<input type="text"/>	£
Amount (£) spent by your supply chain with local Voluntary, Community and Social Enterprises (VSCEs)	<input type="text" value="5000"/>	£
Site visits	<input type="text"/>	visits
Hours volunteered	<input type="text" value="150"/>	hours
Weeks apprentices have worked	<input type="text" value="52"/>	weeks
Ex-offenders employed	<input type="text"/>	people FTE
Local people employed	<input type="text" value="3"/>	people FTE



BRE SMARTWASTE

Project : Stirling Academy

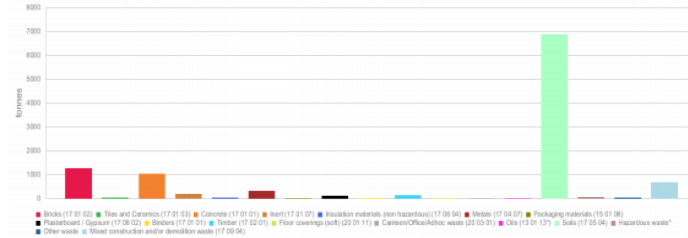
Start Date :

End Date :

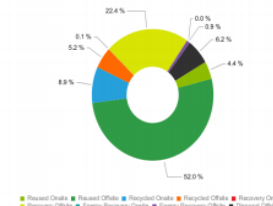
Actual waste sent offsite

	Total (t)	1 /tE100k	1 /100m2	Diverted from landfill (t)	Diverted from landfill (%)
Construction	3,765.9	83.7	376.6	3,611.4	95.90
Demolition	1,170.0	26.0	117.0	670.0	57.26
Excavation	4,305.5	95.7	430.6	4,300.0	99.87
Modular	0.0	0.0	0.0	0.0	0.00
Post-Completion	0.0	0.0	0.0	0.0	0.00
Total (offsite)	9,241.4	205.4	924.1	8,581.4	92.86
Total (offsite & onsite)	10,665.4	237.0	1,066.5	10,005.4	93.81

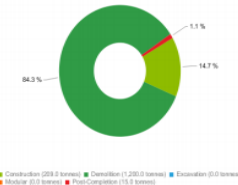
Tonnage of waste to date by product group

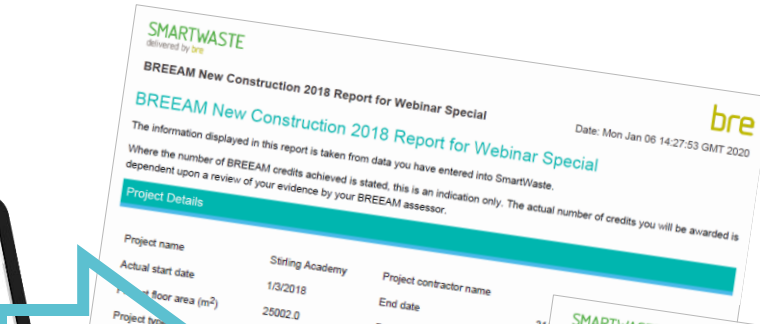


Waste management routes (for actual waste)



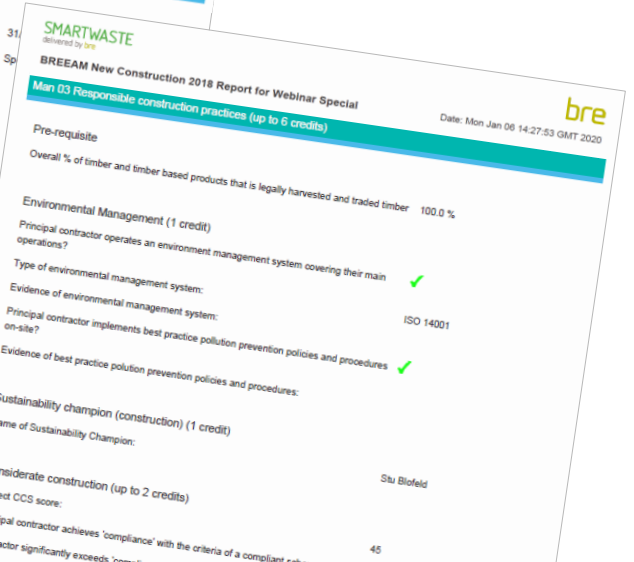
Actual waste (onsite)





Construction Waste Management (up to 4 credits)

Actual non-hazardous construction waste (tonnes/100m ²)	Project Target
Non-hazardous construction waste diverted from landfill (% by weight)	25.00
Non-hazardous demolition waste diverted from landfill (% by weight)	90.00
Non-hazardous excavation waste diverted from landfill (% by weight)	95.00
Credits for Construction Resource Efficiency	95.00
Credits for Diversion of Resources from Landfill	Exemplary L
Has a pre-demolition audit been completed?	
Copy of the pre-demolition audit from SWMP Step 3 (Forecast)	



✓ Provides a breakdown of the individual **BREEAM credits** available and the achieved performance

Reporting

KPI report

Saved KPI Filters

Summary report

Waste

Waste Report Filters

Saved Filters

Waste types and routes

Hazardous/non-Hazardous waste

Waste management contractors report

Reporting

Please use the left hand side menu to navigate to reports under each module.

- ✓ Company reports are available on the Reporting tab
- ✓ Grouped by SmartWaste module
- ✓ Tabular format
- ✓ Graphs
- ✓ Downloadable
- ✓ Analyse data
- ✓ Set KPI targets and track performance

Project level Carbon summary report – Total kgCO₂e

[Dashboard](#)
[Edit Project](#)
[SWMP](#)
[Assigning](#)
[Add data](#)
[Reporting](#)
[Pre-demolition audit Upload](#)
[Reporting](#)
Carbon
[Waste carbon report](#)
[Energy carbon report](#)
[Materials carbon report](#)
[Transport carbon report](#)

Carbon summary report

This report shows a summary of all carbon data based on data added to the waste, energy, materials and transport modules. It displays total kgCO₂e from waste, energy, materials and transport, plus an overall total kgCO₂e.

 Start date

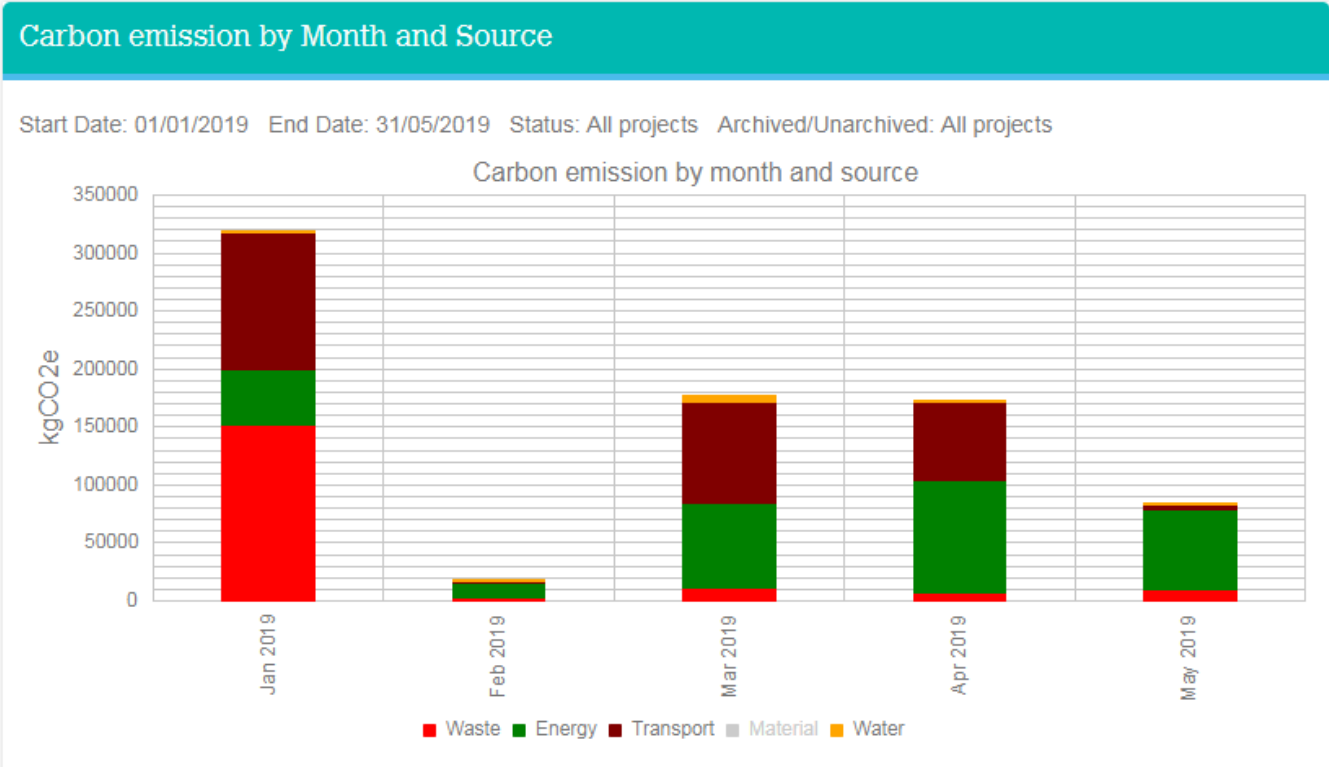
 End date
[Update](#)


Total kgCO ₂ e from Waste Treatment	Total kgCO ₂ e from Energy Use	Total kgCO ₂ e from Materials Embodied Carbon	Total kgCO ₂ e from All Transport	Total kgCO ₂ e
1,792.30	231,047.02	2,396.00	11,324.91	246,560.23

[Download CSV file](#)


Company level Carbon summary report – Total kgCO₂e

Company Name	Project reference	Project Name	Total kgCO ₂ e from Waste Treatment	Total kgCO ₂ e from Energy Use	Total kgCO ₂ e from Materials Embodied Carbon	Total kgCO ₂ e from All Transport	Total kgCO ₂ e from Water	Total kgCO ₂ e
BRE SmartWaste Training Account (SB)	API	API Training Project	4,408.70	0.00	0.00	293.53	0.00	4,702.23
BRE SmartWaste Training Account (SB)	_0001	Building & Civils Training project	631.46	28,987.02	0.00	519.88	1,099.08	31,237.44
BRE SmartWaste Training Account (SB)	T009	Civil Engineering Project	4,997.61	12,895.27	25,704.15	6,372.34	160.30	50,129.68
BRE SmartWaste Training Account (SB)	*SPEN*	Civils Training Project	2,487.59	28,840.29	965,955.75	2,498.28	722.06	1,000,503.96
BRE SmartWaste Training Account (SB)	T001	Example Project 1	5,635.10	2,757.76	42,237.50	732.49	1,720.00	53,082.85
BRE SmartWaste Training Account (SB)	T002	Example Project 2	18.91	2,068.32	35,482.50	258.04	6.88	37,834.65
BRE SmartWaste Training Account (SB)	T002	Example Project 2	4,528.59	4,109.91	19,066.65	1,103.64	0.00	28,808.79
BRE SmartWaste Training Account (SB)	T003	Example Project 3	112,050.07	0.00	0.00	597.13	0.00	112,647.20
BRE SmartWaste Training Account (SB)	V001	Volume Example Project	0.00	1,378.88	375.00	167.96	0.00	1,921.84
Total kgCO ₂ e	-	-	134,758.03	81,037.46	1,088,821.55	12,543.28	3,708.32	1,320,868.65



Carbon Report

KPI name

Target Value

KPI Performance

KPI Unit

All Scopes

kgCO2e from energy use (all scopes) - 83,960.13

Tonnes CO2e from red diesel (all scopes) - 53.41

Scope 1

kgCO2e from all modules (scope 1) - 30288.95

Tonnes CO2e from all modules (scope 1) - 30.29

Tonnes CO2e from combustion of fuel (Scope 1) - 28.98

Scope 2

kgCO2e from all modules (scope 2) - 18589.7 kgCO2e

Tonnes CO2e from all modules (scope 2) - 18.59 tonnes CO2e

Scope 3

kgCO2e from all modules (scope 3) - 461541.92 kgCO2e

Tonnes CO2e from materials (scope 3) - 397.64 tonnes CO2e

Tonnes CO2e from materials transport (scope 3) - 0.05 tonnes CO2e

Tonnes CO2e from staff transport (scope 3) - 4.82 tonnes CO2e

Tonnes CO2e from all modules (scope 3) - 461.54 tonnes CO2e

Company KPI Report with Breakdown by Project

KPI Report

Start date: 01/01/2021 End date: 30/04/2021 Project status: Live projects Project archived/unarchived: All Projects Break down by projects: Yes

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Project Name	Start Date	End Date	Total tonnes waste (tonnes)		% Construction waste diverted from landfill tonnage (%)		% Demolition waste diverted from landfill tonnage (%)		% Excavation waste diverted from landfill tonnage (%)		Total tonnes waste reused (on or off site) (tonnes)		% Total waste reused tonnage (%)		Total tonnes waste recycled (tonnes)		% Total waste recycled tonnage (%)		Total tonnes waste landfilled/disposed (tonnes)		% Total waste landfilled/disposed tonnage (%)	
			Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual
Business Unit Total																						
BRE SmartWaste Training Account (SB)			-	12,090.00	-	98.54	-	99.93	-	97.13	-	1,644.00	-	13.60	-	9,824.20	-	81.26	-	140.05	-	1.16
A001 ABZ EcoSchool	1/2/2020	31/10/2021	-	4,072.00	-	99.98	-	0.00	-	100.00	-	1,644.00	-	40.37	-	2,114.40	-	51.93	-	0.60	-	0.01
A005 ABZ EcoOffice	1/10/2020	31/12/2022	-	2,661.00	-	99.93	-	0.00	-	0.00	-	0.00	-	0.00	-	2,505.50	-	94.16	-	1.75	-	0.07
A006 ABZ OasisLiving	1/10/2020	30/9/2023	-	1,067.00	-	90.12	-	100.00	-	50.00	-	0.00	-	0.00	-	932.30	-	87.38	-	134.70	-	12.62
A002 ABZ Leisure	1/1/2019	1/10/2021	-	1,210.00	-	0.00	-	99.75	-	0.00	-	0.00	-	0.00	-	1,192.00	-	98.51	-	3.00	-	0.25
A004 ABZ EcoApartments	1/1/2020	31/3/2022	-	3,080.00	-	0.00	-	100.00	-	0.00	-	0.00	-	0.00	-	3,080.00	-	100.00	-	0.00	-	0.00

Company KPI Report with Breakdown by Business Unit (with targets set)

KPI Report

Start date: 01/01/2020 End date: 30/04/2021 Project status: All Projects Project archived/unarchived: All Projects Break down by business unit: Yes

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Business Unit Name	Tonnes construction waste/100m2 floor area (tonnes/100m2)		% Construction waste diverted from landfill tonnage (%)		% Demolition waste diverted from landfill tonnage (%)		% Timber from Chain of Custody certified sources (%)		Overall total CCS score (score)		Tonnes CO2e from combustion of fuel (Scope 1) (tonnes)		Tonnes CO2e from electricity supplied (Scope 2) (tonnes)	
	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual
Group Level Total														
SmartWaste 3 Tier Test Account (Group / BU / Project level)	11.10	3.15	85.00	86.38	95.00	83.14	100.00	41.25	40.00	37.33	-	244.13	-	1.19
<u>Eastern Region</u>	11.10	1.96	85.00	89.49	95.00	72.39	100.00	0.90	40.00	0.00	-	98.91	-	0.47
<u>North Region</u>	11.10	5.51	85.00	85.89	95.00	96.17	100.00	73.33	40.00	36.00	-	97.54	-	0.08
<u>South Region</u>	11.10	0.12	85.00	90.00	95.00	59.82	100.00	100.00	40.00	40.00	-	47.68	-	0.64
<u>West Region (for test API, do not change)</u>	11.10	0.00	85.00	0.00	95.00	0.00	100.00	0.00	40.00	0.00	-	0.00	-	0.00

Download Excel

Company KPI Report with Breakdown by Project (with targets set)

KPI Report

Start date: 01/01/2021 End date: 30/04/2021 Project status: Live projects Project archived/unarchived: All Projects Break down by projects: Yes

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Project Name	Start Date	End Date	Total tonnes waste (tonnes)		% Construction waste diverted from landfill tonnage (%)		% Demolition waste diverted from landfill tonnage (%)		% Excavation waste diverted from landfill tonnage (%)		Total tonnes waste reused (on or off site) (tonnes)		% Total waste reused tonnage (%)		Total tonnes waste recycled (tonnes)		% Total waste recycled tonnage (%)		Total tonnes waste landfilled/disposed (tonnes)		% Total waste landfilled/disposed tonnage (%)	
			Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual
Business Unit Total																						
BRE SmartWaste Training Account (SB)	-	12,090.00	90.00	98.54	95.00	99.93	98.00	97.13	-	1,644.00	20.00	13.60	-	9,824.20	78.00	81.26	-	140.05	2.00	1.16		
A001 ABZ EcoSchool	1/2/2020	31/10/2021	-	4,072.00	90.00	99.98	95.00	0.00	98.00	100.00	-	1,644.00	20.00	40.37	-	2,114.40	78.00	51.93	-	0.60	2.00	0.01
A005 ABZ EcoOffice	1/10/2020	31/12/2022	-	2,661.00	90.00	99.93	95.00	0.00	98.00	0.00	-	0.00	20.00	0.00	-	2,505.50	78.00	94.16	-	1.75	2.00	0.07
A006 ABZ OasisLiving	1/10/2020	30/9/2023	-	1,067.00	90.00	90.12	95.00	100.00	98.00	50.00	-	0.00	20.00	0.00	-	932.30	78.00	87.98	-	134.70	2.00	12.62
A002 ABZ Leisure	1/1/2019	1/10/2021	-	1,210.00	90.00	0.00	95.00	99.75	98.00	0.00	-	0.00	20.00	0.00	-	1,192.00	78.00	98.51	-	3.00	2.00	0.25
A004 ABZ EcoApartments	1/1/2020	31/3/2022	-	3,080.00	90.00	0.00	95.00	100.00	98.00	0.00	-	0.00	20.00	0.00	-	3,080.00	78.00	100.00	-	0.00	2.00	0.00

Company KPI Report with Breakdown by Project excel download

KPI REPORT												
Start Date: 01/01/2021		End Date: 30/04/2021		Project Status: Live Projects		Project Archived: All projects		Break down by projects: Yes				
Key:		Linked Project		Within Target		Over Target						
Project reference and project name	Start Date	End Date	Total tonnes waste (tonnes)		% Construction waste diverted from landfill tonnage (%)		% Demolition waste diverted from landfill tonnage (%)		% Excavation waste diverted from landfill tonnage (%)		Total tonnes waste reused (on or off site) (tonnes)	
			Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual
Business Unit Total			-	12,090.00	90.00	98.54	95.00	99.93	98.00	97.13	-	1,644.00
BRE SmartWaste Training Account (SB)			-	12,090.00	90.00	98.54	95.00	99.93	98.00	97.13	-	1,644.00
A001 ABZ EcoSchool	1/2/2020	31/10/2021	-	4,072.00	90.00	99.98	95.00	0.00	98.00	100.00	-	1,644.00
A005 ABZ ECOOffice	1/10/2020	31/12/2022	-	2,661.00	90.00	99.93	95.00	0.00	98.00	0.00	-	0.00
A006 ABZ OasisLiving	1/10/2020	30/9/2023	-	1,067.00	90.00	90.12	95.00	100.00	98.00	50.00	-	0.00
A002 ABZ Leisure	1/1/2019	1/10/2021	-	1,210.00	90.00	0.00	95.00	99.75	98.00	0.00	-	0.00
A004 ABZ EcoApartments	1/1/2020	31/3/2022	-	3,080.00	90.00	0.00	95.00	100.00	98.00	0.00	-	0.00
Project reference and project name	% Total waste reused tonnage (%)		Total tonnes waste recycled (tonnes)		% Total waste recycled tonnage (%)		Total tonnes waste landfilled/disposed (tonnes)		% Total waste landfilled/disposed tonnage (%)			
	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual		
Business Unit Total			20.00	13.60	-	9,824.20	78.00	81.26	-	140.05	2.00	1.16
BRE SmartWaste Training Account (SB)			20.00	13.60	-	9,824.20	78.00	81.26	-	140.05	2.00	1.16
A001 ABZ EcoSchool	20.00	40.37	-	2,114.40	78.00	51.93	-	0.60	2.00	0.01		
A005 ABZ ECOOffice	20.00	0.00	-	2,505.50	78.00	94.16	-	1.75	2.00	0.07		
A006 ABZ OasisLiving	20.00	0.00	-	932.30	78.00	87.38	-	134.70	2.00	12.62		
A002 ABZ Leisure	20.00	0.00	-	1,192.00	78.00	98.51	-	3.00	2.00	0.25		
A004 ABZ EcoApartments	20.00	0.00	-	3,080.00	78.00	100.00	-	0.00	2.00	0.00		



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