



skips*R*us

WRAP QUALITY PROTOCOL AGGREGATES

PRODUCED BY SKIPS R US

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NIEA
wrap



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Company Background

Skips R Us Limited (SRU) was established in 2008 with the vision of providing an expansive, cost-effective waste management service to public bodies, commercial and private users alike. Initially specialising in skip hire, the business and its facilities have evolved with a significant part of the business now involving the provision of waste management services for external waste contractors and local councils. The location of the business has been key to its success since its foundation. The facility has been strategically located between Belfast and Dublin in Co Armagh within minutes of the connecting motorway for the ease of both cross-border logistics and trade. This prime location gives the business a unique trading and geographical advantage in its ability to serve both N. Ireland (NI) and the Republic of Ireland (ROI).

SRU hold a UK Waste Carriers License and an Irish national waste collection permit for the legal transportation of wastes. Due to the company's unique location Waste Licenses have been acquired for both UK and Irish jurisdictions. SRU are also a licensed waste broker, allowing the company to arrange the import and export of waste materials to and from their facility.

The facility itself is authorised by the Northern Ireland Environment Agency (NIEA) who have granted the company a Waste Management Licence (WML) for the treatment and transfer of a vast selection of waste types for both treatment and transfer.

Regulatory Consents



Skips R Us currently has in place all of the necessary regulatory consents to deliver a high-quality waste management service for both private and public contracts.

Details of authorisations held;

- Facility Waste Management Licence issued by NIEA No: LN/18/21. – Perpetual
- Waste Carrier Licence issued by NIEA No: ROC UT 7536– Expires 01-08-2024
- ROI Waste Collection Permit - NWCPO-1 3-1 1 17 1 _03 – Expires April 2027
- Broker Dealer Registration - IRE/ AG337 /23 – Expires February 2023
- Road Transport Operators Licence: ON2006898.

Recycled Aggregates Ireland & The All Island Approach



Recycled Aggregates Ireland is a subdivision of Skips R Us Ltd and unlike the skips division of the business this area specialises in the recovery of various grades of construction and demolition (C&D) wastes that are processed onsite to produce a recycled aggregate product that is an alternative to virgin stone.

The recycled aggregate production process operated at the site is regulated by the NIEA. This includes some manual picking and mechanical treatment. The main waste input materials to the process are all inert comprising C&D waste and other commercial waste which exhibits the same characteristics as the C&D waste. This material is checked on reception for any contamination and, if none is present, it is then stockpiled awaiting processing. Contaminated material is deposited into a quarantine area for further checking and, as necessary, removal to a suitable facility.



The stockpile of suitable material, when sufficient quantity is available, is then sorted by mechanical and manual picking to remove large items e.g. timber, and then the remaining material is loaded into the treatment process which sorts the materials into sized fractions.

Suitably treated (processed) wastes can, after testing, be categorised as a WRAP (Waste & Resource Action Program) Quality Protocol compliant recycled aggregate, ('Aggregates from Inert Waste- End of Waste Criteria for the Production of Aggregates from Inert Waste' – WRAP 2013).

At SRU we believe in the proximity principal and that all waste should be recycled and recovered as close to the source as possible. With the location of the facility only one hour from both Dublin and Belfast we are ideally located to provide an all Island solution for the recovery of C&D waste to produce resalable products.

One of the 21st Century's most important, but least appreciated, commodities continues to be ordinary sand. From the processing of C&D waste SRU are ensuring this product is recovered and reused within the recycled aggregates produced at our facility in Crossmaglen.

Sand has by now become the most widely consumed natural resource on the planet after fresh water. With the SRU recovery process we are ensuring this supply can be retained and reused within the Island of Ireland, reducing the carbon footprint otherwise created through the mining of virgin material.



The WRAP Quality Protocol & Testing



The Waste Protocols Project was a joint Environment Agency and WRAP initiative in collaboration with industry, funded by the Department for the Environment, Food and Rural Affairs (Defra), the Welsh Assembly Government (WAG) and the NIEA as a business resource efficiency activity.

The project developed quality protocols which clearly sets out the steps that must be taken for the waste to become a non-waste product or material that can be either reused by business or industry, or supplied into other markets, enabling recovered products to be used without the need for waste regulation controls.

All the grades are tested against the relevant Specification for Highway Works (Series 600 Earthworks) in accordance with the WRAP Quality Protocol, by a UKAS Accredited material testing service provider. For an example laboratory testing report please see Appendix A.



These materials will be subjected to numerous tests to ensure they meet all the required standards and are initially carried out in accordance with the required schedule and test procedures as per the WRAP Quality Protocol. Due to the standardisation of equipment and processing, where 3 sets of test results for any property demonstrate compliance with a single grade, this testing frequency can be reduced to a quarterly basis. All test results are stored on file and electronically for a minimum of 3 years. For a table with details of the SRU tests conducted along with the required frequency please see Appendix B.

Non-conformity can arise at the following stages: constituent in delivery, constituent in storage, during handling and during onsite storage of the waste material. If a non-conforming constituent, process, or mixture is identified, investigations are initiated to determine the reasons for non-conformity and effective corrective action shall be implemented to prevent recurrence.

A WARP product Quality Control Form shall be issued for every collection or delivery of recovered aggregate product that leaves the facility weigh bridge. This shall state that the product was produced under a quality management scheme, conforming to the WRAP Quality Protocol. The docket will also provide sufficient detail regarding the aggregate's physical characteristics and its designated use. Please see Appendix C – WRAP Quality Control Form.

The Process & Breakdown of Recovered Materials



Once a waste load containing clean construction rubble is accepted onto the site, it is temporarily stored in a designated bay prior to treatment, which is summarised below and depicted in the preceding process:

- Using a wheeled shovel loader, material is fed into the crusher screen box hopper. Two operatives stand on the access platforms on each side of the screen box hopper and hand pick ferrous and non-ferrous metals, plastic, metal, wood etc. contaminants.
- The screened material then passes through the Sandvik C12+ Crusher, which breaks down material into smaller particles and loosens and also size reduced cohesive material.
- A twin pole over band magnet removes ferrous metal fractions which are fed into a segregated skip by a side feed belt conveyor.



- Material then passes directly into the Power Screen Chieftain Bivitec 2100x screener, which is fitted with a vibrating tipping grid that removes any oversize material, which can also be handpicked if necessary and fed back into the process (Sandvik Crusher).
- Material then passes under a second (over band twin pole) magnet to remove any remaining ferrous metals which are also fed into a separate skip.
- Screened material is further screened by the Power Screen Chieftain Bivitec 2100x to segregate materials by particle size into the following screened sizes;

Size 1: Sub 25mm, Stone fraction smaller than 25mm, suitable for use as compact drainage and pipe bedding applications, recovered as 1B in accordance with the WRAP quality protocol under the Specification of highway works

Size 2: 25mm to 50mm aggregate, suitable for coarse drainage and general filling applications recovered as 1B in accordance with the WRAP quality protocol under the Specification of highway works

Size 3: 50mm to 100 mm, suitable for general fill applications recovered as 1B in accordance with the WRAP quality protocol under the Specification of highway works

- Sizes 1, 2 and 3 are then vacuumed to remove light/ low density fractions (as contaminants) i.e. plastic, paper, timber, fabric, foam etc.
- All grades of material are then stored in segregated stockpiles & bays
- Metals removed by magnets are stored in segregated skips
- Lights/ low density materials removed by the vacuum are deposited directly into a bespoke segregated skip for offsite removal as residual waste.
- Non-conforming waste is sent to landfill for engineering purposes e.g. daily cover.

Breakdown of composition: The following percentages for recovered fractions and treatment residues are accurate approximates based on our experience of receiving and treating C&D waste whose composition can vary depending on the customer / source:

Aggregate 1B (WRAP) – >90%

SRF – <2%

Ferrous – <2%

Non-Ferrous – <2%

Timber – <2%

Landfill Engineering – <10%.

Please also see **Appendix D – Construction Rubble Recovery - Process Flow Diagram**



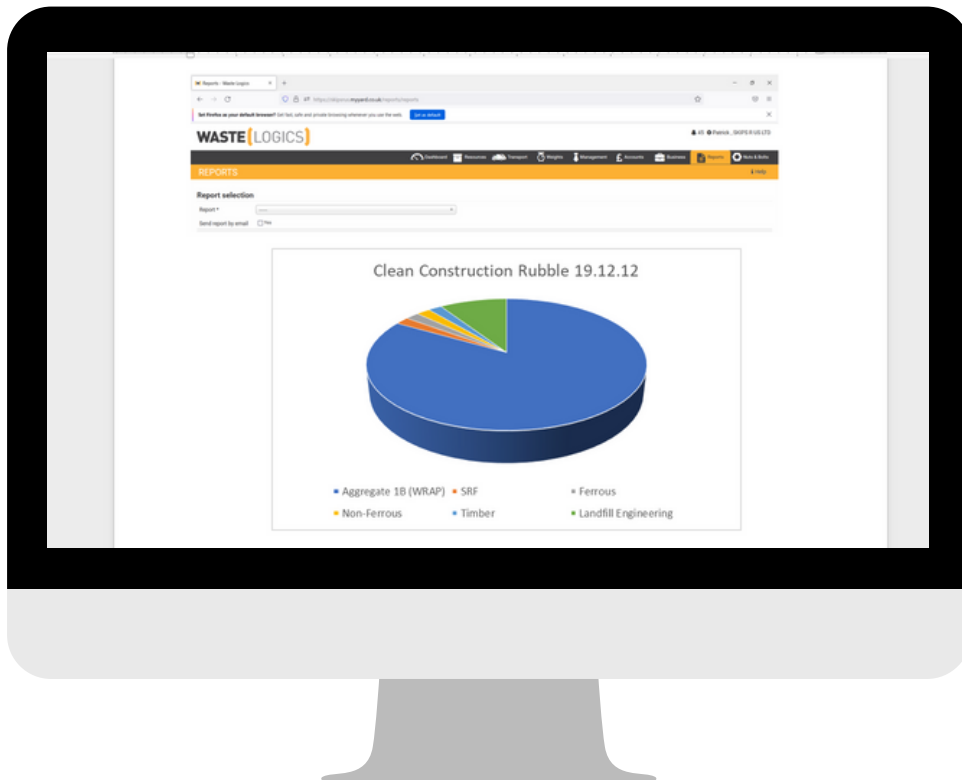
Reporting & Recovered Products



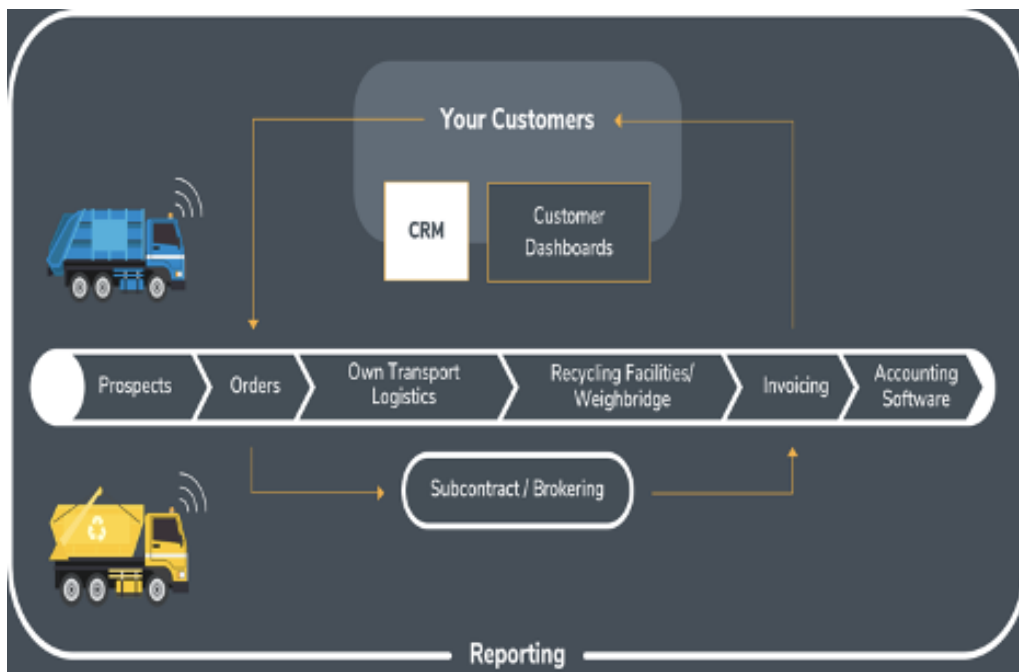
Customer Waste Reporting

Skips R Us have accustomed the software program for use within the business, Waste Logics, which is an end-to-end waste management software program. This is utilised across all elements of the business from customer orders, logistics, weighing, invoicing and a wide range of reporting elements.

Each report makes use of a pie chart analysis along with recycling rate history, enabling customers to quickly see how much of each waste type is being removed from site and the overall recycling statistics over the previous 12 months. Each report also includes weigh-bridge details of each container that was tipped at our recycling facility including the date, size, weight and production site.



SRU can provide customers with accurate and precise waste reports at reporting intervals as requested and these reports can be as detailed or as simple as required. The above example is based on clean construction rubble accepted into the facility under EWC 19.12.12.



Waste Logistics is a cloud-based waste management software system.



Interactive features:

- Go paperless with mobile devices and electronic signing – for drivers, compliance and weighbridges
- Experience real-time order processing – includes onsite issue management and focused order update notifications
- High-performance route planning and optimisation – benefit from maps, trails and easy-to-use drag and drop functionality
- Self-service utility – SRU customers have instant access to electronic invoices and recycling reports
- Service hub made simple – track conversations, tasks and follow ups with customers and suppliers.

Recovered Products

MOT Type 1 Recycled Sub Base



Fully Wrap Compliant

Type 6F4



Crushed Aggregate Type 6F4

Key Site Contact Information

For further information on the contents of this brochure the contact personnel listed below are available for responses, discussion on matters relating to this proposal:

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RECYCLED **AGGREGATES** IRELAND



CRUSHED

Material crushed
to appropriate
sizes



WASTE

Inert demolition
waste such as
hardcore, concrete
& bricks



WRAP

WRAP quality
control procedure
documented
& lab testing



RECYCLED

Material is now
recycled and no
longer a waste