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**Quality Protocol:**

Bristol & Avon Transport & Recycling Ltd

Hallen Yard

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| **Date** | **Oct 2024** |
| **Revision** | **0.7** |
| **Document Reference** | **BAT/QP/07** |

**Site:**

Area G

Severn Road

Hallen

Bristol

BS10 7SE

Permit Number EPRBB3204CV

1. **Products**

Type 1 Sub Base BS1377

6F5 Selected granular material (coarse grading) BS EN 13285

6C Selected granular material BS EN 932-1

1A granular material BS EN 1377

1. **Acceptance Criteria for incoming waste**

Acceptable wastes: Inert wastes outlined in Appendix A can be accepted

A visual inspection shall be carried out on every load, on initial receipt and after tipping, to

ensure compliance with the Acceptance Criteria. Appendix B

A record of each load delivered and accepted shall be kept for a minimum of 2 years

1. **Method Statement**

Please refer to Flow Chart in Appendix C

Staff will be trained in the visual inspection of permitted waste and the recognition of unpermitted wastes

All vehicles attending site to Dis-charge (dependant on the sites facilities), will be weighed and visually inspected before entering the tipping area.

**3.1 PPE Requirements**

* Gloves
* Safety Glasses
* Hi visibility clothing (when in the operational area, not enforced on the sort line)
* Safety boots
* Protective arm sleeves

The above PPE must be worn at all times for this operation.

**3.2 Tipping:**

* Banks man will call vehicle forward.
* Banks man will reverse vehicle into the designated area.
* Driver is to un-sheet the load ready for inspection.
* Bristol & Avon staff will visually check load for non-conforming waste, condition of material to ensure it is acceptable under the sites criteria if it does not match the sites criteria the vehicle will be removed to a safe location.
* Site Manager will initiate the rejection process laid out below.
* If no problem is found the vehicle may discharge its load.
* During discharge Bristol & Avon staff will conduct a visual check of the material for unpermitted waste types.
* Any unpermitted waste types will be taken out and segregated and quarantined. Bristol & Avon will decide on the course of action to be taken Reference load rejection procedure below.
* A Rejected load form will be completed by Bristol & Avon Manager/Supervisor. Form ref:BTR-RF2
* When vehicle has discharged its load, the banks man will ensure that the vehicle driver has secured all doors and allow the vehicle to return to the weighbridge.

Each incoming load will be visually checked by Bristol & Avon staff and Management, and the following procedures would be adhered to.

**3.3 Load rejection non tipped waste:**

* If the load is contaminated it will not be tipped.
* The driver will park the vehicle in a safe area.
* Bristol & Avon management informed.
* Bristol & Avon management will inform the customer of the contamination within the load.
* The load will receive a rejection certificate containing:
* Date,
* Vehicle registration number,
* load or round number,
* Drivers name,
* Person rejecting the load
* Reason for rejection.
* Vehicle will leave site.

**3.4 Load rejection tipped waste:**

* If a load of contaminated material has been tipped, the vehicle driver is to park in a safe place and wait instruction.
* Bristol & Avon management informed.
* Bristol & Avon management will inform the customer of the contamination within the load.
* Mobile plant operator will reload non-conforming material into the customers vehicle.
* If the vehicle has left site the non-conforming material will be quarantined
* The tipping company will be required to make arrangements for the collection of the contaminated material.
* The load will receive a rejection certificate containing.
* Date,
* Vehicle registration number,
* load or round number,
* Drivers name,
* Person rejecting the load
* Reason for rejection.

1. **Processes**

After the vehicle has been tipped and inspected the material will be segregated into type and either fed through the crusher or the screener.

Material fed through the crusher will be fed into the feed hopper which will in turn feed the material through the jaws of the crusher.

The material will be fed on to the discharge belt passing underneath a magnet as it travels up the conveyor to remove any metals.

The discharged material will be handpicked to remove any other contaminants.

Material will be processed through the screener to achieve grades of.

Recycled Type 1 BS1377

6F5 Selected granular material (coarse grading) BS EN 13285

6C Selected granular material BS EN 932-1

1A granular material BS EN 1377

1. **Inspection and Testing Regime**

Every incoming load is visually inspected as a minimum. Grading testing, to BSEN 933-1,

Is carried out weekly to monthly dependent upon production quantities. In accordance with Appendix B

**Records**

Records of incoming wastes and products will be kept and will include.

* Waste carriers licences.
* Waste transfer notes.
* Rejection notes.
* Incoming and outgoing tonnages.

Statutory record keeping requirements for waste are observed.

1. **General Uses**

The list below indicates general areas of use.

· Concrete.

· Pipe bedding.

· Unbound/hydraulically bound

· sub-base.

· Capping.

· Structural fills.

**Appendix A**

|  |  |  |
| --- | --- | --- |
| European  Waste  Catalogue | | |
| EWC Code | Description | Restrictions |
| 17 01 01 | Concrete including solid dewatered concrete. | Selected construction and demolition process waste.  waste acceptable only with low content  of other types of materials (like metals,  Plastic, organic, wood, rubber etc. The  origin of the waste must be known |
| 17 01 02 | Bricks |  |
| 17 01 03 | Tiles & Ceramics |  |
| 17 01 07 | Mixtures of concrete, bricks, tiles and ceramics |  |
| 17 05 04 | Soils and stones including gravel, crushed rock, | Excluding soil and stones from contaminated sites |
| 07 05 08 | Road base, and planning’s and track ballast |  |
| 20 02 02 | Soils and stones restricted to parks waste | Only from garden and parks waste;  Excluding topsoil, peat |
|  | | |

**Appendix B Approved industry standards and Factory Production Control**

Approved industry standards

The producer must comply with all the requirements of a BS EN aggregates standard appropriate to the use for which the aggregate is destined for at the time it is produced to comply with this Quality Protocol. Table B1 details the standards and main specifications relating to aggregates at the time of publishing this Quality Protocol.

Table B1: Standards, specifications and quality controls for the use of aggregates

|  |  |  |  |
| --- | --- | --- | --- |
| Product and Use | Standard | Specification | Quality Control |
| 1  Unbound  recycled  aggregate:  Pipe bedding  Drainage | BS EN 13242:  Aggregates for  unbound and  hydraulically bound  materials for use in  civil engineering work  and road construction | Highways Agency  Specification for  Highway Works (SHW):  Series 500  Highway Authorities  and Utilities Committee  (HAUC): Specification  for the reinstatement of  openings in highways  (SROH) | BS EN 13242: Level 4  Attestation  Evaluation of  Conformity to BS EN  16236\*  SHW: Quality Control  procedures in  accordance with the  Quality Protocol for the  production of  aggregates from inert  waste  SROH: Compliance  with SHW |
| 2  Unbound  recycled  aggregate:  Granular fill  General fill  Capping | BS EN 13242:  Aggregates for  unbound and  hydraulically bound  materials for use in  civil engineering work  and road construction | Highways Agency  Specification for  Highway Works:  Series 600  HAUC: Specification for  the reinstatement of  openings in highways  BS EN 13285:  Unbound mixtures:  Specifications | BS EN 13242: Level 4  Attestation  Evaluation of  Conformity to BS EN  16236\*  SHW: Quality Control  procedures in  accordance with the  Quality Protocol for the  production of  aggregates from inert  waste  SROH: Compliance  with SHW |
| 3  Unbound  recycled  aggregate: sub  base | BS EN 13242:  Aggregates for  unbound and  hydraulically bound  materials for use in  civil engineering work  and road construction | Highways Agency  Specification for  Highway Works:  Series 800  HAUC: Specification for  the reinstatement of  openings in highways  BS EN 13285:  Unbound mixtures:  Specifications | BS EN 13242: Level 4  Attestation  Evaluation of  Conformity to BS EN  16236\*  SHW: Quality Control  procedures in  accordance with the  Quality Protocol for the  production of  aggregates from inert  waste  SROH: Compliance  with SHW |

|  |  |  |  |
| --- | --- | --- | --- |
| Product and Use | Standard | Specification | Quality Control |
| 4  Recycled  aggregate for  concrete | BS EN 12620:  Aggregates for concrete | Highways Agency  Specification for  Highway Works: Series  1000  BS 8500-2: Concrete | BS EN 12620: Level 4  Attestation  Evaluation of  Conformity to BS EN  16236\*  SHW: Quality Control  procedures in  accordance with the  Quality Protocol for the  production of  aggregates from inert waste |
| 5  Recycled  aggregate for  asphalt | BS EN 13043:  Aggregates for  bituminous mixtures  and surface treatments  for roads, airfields and  other trafficked areas | Highways Agency  Specification for  Highway Works:  Series 900  HAUC: Specification for  the reinstatement of  openings in highways | BS EN 13043: Level 4  Attestation  Evaluation of  Conformity to BS EN  16236\*  SHW: Quality Control  procedures in  accordance with the  Quality Protocol for the  production of  aggregates from inert  waste  SROH: Compliance with SHW |
| 6  Recycled  aggregate for  hydraulically  bound mixtures | BS EN 13242:  Aggregates for  unbound and  hydraulically bound  materials for use in  civil engineering work  and road construction | Highways Agency  Specification for  Highway Works:  Series 800  HAUC: Specification for  the reinstatement of  openings in highways  BS EN 14227-1 to 5  Hydraulically Bound  Mixtures:  Specifications | BS EN 13242: Level 4  Attestation  Evaluation of  Conformity to BS EN  16236\*  SHW: Quality Control  procedures in  accordance with the  Quality Protocol for the  production of  aggregates from inert  waste  SROH: Compliance with SHW |
| 7  Reclaimed  asphalt for use  in bituminous  mixtures | BS EN 13108-8  Bituminous mixtures  – Material  specifications – Part 8:  Reclaimed asphalt. | Highways Agency  Specification for  Highway Works:  Series 900  BS EN 13108-1 to 5  Bituminous mixtures  – Material  specifications | BS EN 13108-8 NHSS  Sector Scheme 14  SHW: Quality Control  procedures in  accordance with the  Quality Protocol for the  production of  aggregates from inert  waste  SROH: Compliance  with SHW |

Table B2: Summary of testing requirements associated with particular end uses and standards (Note: Testing frequencies should be increased where variability is identified through Factory Production Control and where the measured value is close to the specified limit.)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| End use | Standard and  Specifications | Test | BS test  reference | Minimum test  frequency  (see B2.8) |
| All end uses | BS EN 13242  BS EN 12620 | Particle size  Distribution  Particle density  Resistance to  fragmentation  (LA)  Classification of  constituents(see  table B3)  Water soluble  sulfate | EN 933-1  EN 1097-6  EN 1097-2  EN 933-11  EN 1744-1 | 1 per week  1 per month  2 per year  1 per month  1 per month |
| Aggregates for  concrete | BS EN 12620 | Particle density  and water  absorption  Sulphur containing  compounds  Chlorides  Influence on  setting time of  cement | EN 1097-6  EN 1744-1  EN 1744-5  EN 1744-6 | 1 per month  2 per year  2 per year  2 per year |

Tests are not exhaustive and reference should be made to relevant standards and specifications for additional requirements. Tests for BS EN 13043 and additional minimum test frequencies for other aggregate standards are tabled in EN 16236.

Table B3: Classification of constituents: testing to BS EN 933-11, classification groups

|  |  |
| --- | --- |
| Code | Constituents |
| Rc | Concrete, concrete products, mortar, concrete masonry units |
| Ru | Unbound aggregate, natural stone, hydraulically bound aggregate |
| Rb | Clay masonry units (i.e. bricks and tiles), calcium silicate masonry units, aerated  non-floating concrete |
| Ra | Bituminous materials |
| Rg | Glass |
| FL | Floating material in volume |
| X | Cohesive (e.g. clay and soil), metals, wood, plastic, rubber, gypsum plaster |

Notes: Maximum permitted for constituent X: 1% by mass.

Maximum permitted for constituent FL: ≤10 cm /kg unbound, ≤5 cm /kg aggregates for concrete

Table B4: Example of supplementary testing to meet Specification requirements.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| End of Use | Standard & Specification | Test | BS Test Reference | Minimum test  frequency  ( see section  B2.7) |
| Unbound fills Capping Sub-base | SHW Series 600 & 800  SROH | California Bearing Ratio  Plasticity of fines frost heave | 1377: Part 4  1377: Part 2  812: Part 124 | 1 per Month  1 per Week  1 per Year |

Tests are not exhaustive and reference should be made to relevant standards and specifications for additional requirements

**BATPA0808 FLOW CHART FOR ACCEPTANCE AND PROCESSING WASTE**

Feed stock segregated by type: concrete, brick, asphalt, granular, and soils.

FIRST INSPECTION – Undertaken off-site: Obtain information on source of waste to assess potential viability. Wastes classified and waste-code attributed.

SECOND INSPECTION – Lorries arrive at inspection area, inspection undertaken prior to offloading and by a suitably qualified person.and acceptance criteria applied. Complete Waste Transfer Documentation

Rejected - initiate rejection procedure

Accept, weigh and categorise

Allocate to appropriate feedstock area

THIRD INSPECTION

Offload onto Working Area under supervision.

Ensure all waste meets acceptance criteria

Rejected - initiate rejection procedure

Wood & Plastic removed by hand

Feed material to SCREENER

Feed material into CRUSHER

Feed material to WASH PLANT

Steel removed via magnet

Inspect final stock material meets criteria

Re-process

No

No

Inspect final stock material meets criteria

Allocate and move to stock pile

Allocate and move to stock pile

**Over 500** metres away from surface water body potential 68,000tn of IBAA

Allocate and move to stock pile

Allocate and move to stock pile

No

Re-screen

No

B&A 20% Blend imported into Recycled Product and inspect

Inspect final stock material meets criteria

RPS206 Review undertaken – Over 500 metres away from water body vs under 500 metres away from water body

**Under 500** metres away from surface water body 3060tn of IBAA maximum

Steel to be removed by hand

Stockpile on Impermeable concrete

IBAA Material to be imported (Not under WRAP QP) into B&A Hallen