

**QUALITY PROTOCOL
FOR THE
PRODUCTION OF
AGGREGATES
FROM
INERT WASTE**

QUALITY PROTOCOL FOR THE PRODUCTION OF AGGREGATES FROM INERT WASTE

Site Operator	:	Camden Plant Ltd
Site Address	:	Lower Hall Lane Chingford London E4 8JG
Waste Management Licence No	:	ERP/DP3891NP
Date Licence Issued	:	30 th June 1993
Waste Carrier's Licence No	:	CBDU117816
Licence Expiry Date	:	19 th July 2022
COTC Holder	:	D Marrinan

QUALITY PROTOCOL FOR THE PRODUCTION OF AGGREGATES FROM INERT WASTE

Method Statement

1. Obtain information on source of waste to assess potential variability.

Information on source of waste accepted by Camden Plant Ltd is obtained in the following ways:

- i) Site inspection for demolition and excavation arisings where appropriate.
- ii) Inspection of Waste Transfer Sites and local Authority HWR
- iii) Soil Reports where appropriate

QUALITY PROTOCOL FOR THE PRODUCTION OF AGGREGATES FROM INERT WASTE

Method Statement

2. Waste Acceptance Criteria

Acceptable wastes for recycling at our site are:

European Waste Code (EWC)	Description
17.01.01	Concrete Breakout (including reinforced concrete)
17.01.02	Bricks
17.01.03	Tiles & Ceramics (non Hazardous
17.01.07	Demolition Hardcore
17.01.07	Pre sorted General Hardcore from Waste Transfer and HWR Sites
17.05.04	Inert Soil
20.02.02	Soil and Stone

QUALITY PROTOCOL FOR THE PRODUCTION OF AGGREGATES FROM INERT WASTE

Method Statement

3. Waste Acceptance Criteria applied

Our acceptance criteria are initially applied at the point each load of waste arrives at site.

One of our experienced Operators will make an assessment of each load and if the waste meets our criteria then it is accepted and a record of the waste accepted is generated (see Appendix 1).

This assessment is undertaken by the following means:

Initial Observation on overhead Dome Camera (including zoom facility).

Closer Visual Inspection of load in tipping area.

If the waste does not meet our criteria then the load is rejected and a Waste Rejection Form is completed.

Carriers of rejected loads are advised of alternative disposal sites for rejected loads e.g. rubbish, muck, general waste etc. (See Appendix 2)

QUALITY PROTOCOL FOR THE PRODUCTION OF AGGREGATES FROM INERT WASTE

Method Statement

4. Weigh/measure and categorise

On acceptance each load is weighed or measured as appropriate.

A ticket is issued describing the following information:

- i) Customer/Originator of Waste
- ii) Description of Waste & EWC Code
- iii) Volume/Weight of Waste
- iv) Geographical origin of Waste
- v) Registration number and operator of vehicle
- vi) Disposal site address and Waste Management Licence number.

QUALITY PROTOCOL FOR THE PRODUCTION OF AGGREGATES FROM INERT WASTE

Method Statement

5. Allocate to appropriate stock area.

Waste materials are directed to the area of the site allocated to waste stockpiles. These areas are clearly segregated as is shown in the Site Plan.

QUALITY PROTOCOL FOR THE PRODUCTION OF AGGREGATES FROM INERT WASTE

Method Statement

6. Re-inspect for compliance to acceptance criteria.

As each load is tipped it is once again inspected by one of our qualified Operators to ensure the waste meets our criteria and is suitable for the appropriate stockpile.

If a load is deemed unacceptable at this stage it is rejected and a Waste Rejection Form is completed.

Rejected material is reloaded and the haulier advised of a suitable disposal site.

QUALITY PROTOCOL FOR THE PRODUCTION OF AGGREGATES FROM INERT WASTE

Method Statement

7. Production Process

Accepted Waste is then fed into our Production Process in accordance with our Factory Production Control (FPC) (See Appendix 3).

In all instances waste material is removed as far as possible using the following processes:

- i) Steel is removed by magnets integral to the Crushing Plant
- ii) Plastic/Wood etc is removed by hand

These waste materials are then taken to appropriate storage bins to be taken away for recycling (where possible) or disposal at an appropriate site.

QUALITY PROTOCOL FOR THE PRODUCTION OF AGGREGATES FROM INERT WASTE

Method Statement

8. Allocate to Product Stockpiles

Recycled Aggregates are then moved to segregated stockpiles.

Recycled Aggregates produced and stockpiled at Camden Plant Ltd include the following:

**6F2
6F5
Type 1
Type 3
6C
Recycled Sand
10mm Recycled Shingle
20mm Recycled Shingle
40mm Recycled Shingle
Topsoil**

Recycled Aggregates are tested, by a UKAS accredited laboratory - in accordance with the attached WRAP Minimum Test Frequencies Table (See Appendix 4) - for compliance with Highways Agency Specification for Highways Works Clause 710.

All results are maintained on a central file.

In the event of Recycled Aggregates not complying with the advised specification then our Non – Conformance Procedure is implemented.

QUALITY PROTOCOL FOR THE PRODUCTION OF AGGREGATES FROM INERT WASTE

Method Statement

9. Product Non-Compliance Procedure

In the event of test results confirming product non compliance the following procedures are adopted:

- i) Non conforming area of stockpile is segregated
- ii) Non conforming product is reprocessed
- iii) Product is re-tested

QUALITY PROTOCOL FOR THE PRODUCTION OF AGGREGATES FROM INERT WASTE

Method Statement

10. Recording Product leaving Site

On leaving site all loads of Recycled Aggregates are weighed/measured and a ticket issued recording the following details:

- i) Customer
- ii) Description of Recycled Aggregates
- iii) Volume/Weight of Recycled Aggregates
- iv) Geographical destination of Recycled Aggregates
- v) Registration number and operator of vehicle
- vi) Origin of Recycled Aggregate and Waste Management Licence number.
- vii) Statement of Compliance with the Quality Protocol

QUALITY PROTOCOL FOR THE PRODUCTION OF AGGREGATES FROM INERT WASTE

Waste Rejection Form

Waste Rejected from : Camden Plant Ltd
Lower Hall Lane
Chingford
London E4 8JG

Waste Management Licence No. : ERP/DP3891NP

Address Waste Loaded :
.....

Name of Waste Carrier :
.....

Address of Waste Carrier :
.....

Waste Carrier's Licence No :

Date :

Reason for Waste Rejection :
.....

Carrier directed to :
.....

APPENDIX 3

FACTORY

PRODUCTION

CONTROL

FACTORY PRODUCTION CONTROL

Introduction

The purpose of this manual is to document the quality procedures implemented by Camden Plant Ltd in the production of aggregates to the WRAP Quality Protocol.

The management representative responsible for the implementation of the procedures outlined in this manual is:

Damian Marrinan

The manual is reviewed on a half yearly basis to ensure its continuing suitability and effectiveness. Records of all reviews are kept for a period of five years.

FACTORY PRODUCTION CONTROL

Production and Testing

All processing equipment is maintained and serviced in accordance with manufacturers' guidelines.

All processing equipment is adjusted in line with the manufacturers' guidelines before commencing production in order to ensure that the aggregates produced conform to the appropriate British Standards and Highways Agency Specifications.

All waste materials coming on to site are stocked in a controlled manner as documented in our Quality Protocol Method Statement.

All recycled aggregates are tested for conformity to the relevant British Standards and Highways Agency Specifications in accordance with our Quality Protocol Method Statement.

Testing is undertaken by an external UKAS accredited laboratory who are responsible for the use, control, calibration, and maintenance of the testing equipment.

FACTORY PRODUCTION CONTROL

Training

All Camden Plant Ltd personnel involved in the production of aggregates are given on-site training on the FPC by a COTC holder with particular regard to:

Waste Acceptance Criteria (First Inspection)

Waste Acceptance weighing/measuring documentation

Waste Acceptance Criteria (Second Inspection)

Segregation and stockpiling of waste

Production of recycled aggregates

Loading and weighing/measuring of recycled aggregates

All health, safety, and environmental aspects of the FPC

Records

Records of all incoming waste, production equipment maintenance, and test results are kept for a minimum of two years.

FACTORY PRODUCTION CONTROL

Method Statement of Production

Product Specification	:	6F5 Highways Agency - SfHW
Input Material	:	General Hardcore Stockpile
Input Equipment	:	LiuGong CLG939E
Processing Equipment	:	McCloskey J45 Crusher
Stockpiling Equipment	:	Komatsu WA480-8E0
Testing Agent	:	Hixtra Ltd
UKAS Accredited	:	Yes

Production Process

Processing Equipment is adjusted in accordance with Manufacturers' Guidelines.

Input Material is loaded by Input Equipment into Processing Equipment.

Product is then collected and stockpiled by Stockpiling Equipment.

Product is tested for conformity in line with procedures detailed in Quality Protocol Method Statement.

FACTORY PRODUCTION CONTROL

Method Statement of Production

Product Specification	:	6F2 Highways Agency - SfHW
Input Material	:	General Hardcore Stockpile
Input Equipment	:	LiuGong CLG939E
Processing Equipment	:	McCloskey J45 Crusher
	:	Parker SR206 Screener
Stockpiling Equipment	:	Komatsu WA480-8E0
Testing Agent	:	Hixtra Ltd
UKAS Accredited	:	Yes

Production Process

Processing Equipment is adjusted in accordance with Manufacturers' Guidelines.

Input Material is loaded by Input Equipment into Processing Equipment.

Product is then collected and stockpiled by Stockpiling Equipment.

Product is tested for conformity in line with procedures detailed in Quality Protocol

Method Statement.

FACTORY PRODUCTION CONTROL

Method Statement of Production

Product Specification	:	Type 1 Highways Agency - SfHW
Input Material	:	Clean Concrete Stockpile
Input Equipment	:	LiuGong CLG939E
Processing Equipment	:	McCloskey J45 Crusher
	:	Parker SR206 Screener
Stockpiling Equipment	:	Komatsu WA480-8E0
Testing Agent	:	Hixtra Ltd
UKAS Accredited	:	Yes

Production Process

Processing Equipment is adjusted in accordance with Manufacturers' Guidelines.

Input Material is loaded by Input Equipment into Processing Equipment.

Product is then collected and stockpiled by Stockpiling Equipment.

Product is tested for conformity in line with procedures detailed in Quality Protocol

Method Statement.

FACTORY PRODUCTION CONTROL

Method Statement of Production

Product Specification	:	6F4 Highways Agency - SfHW
Input Material	:	General Hardcore Stockpile
Input Equipment	:	LiuGong CLG939E
Processing Equipment	:	Mcloskey J45 Crusher
	:	Parker SR206 Screener
Stockpiling Equipment	:	Komatsu WA480-8E0
Testing Agent	:	Hixtra ltd
UKAS Accredited	:	Yes

Production Process

Processing Equipment is adjusted in accordance with Manufacturers' Guidelines.

Input Material is loaded by Input Equipment into Processing Equipment.

Product is then collected and stockpiled by Stockpiling Equipment.

Product is tested for conformity in line with procedures detailed in Quality Protocol

Method Statement.

