# **Caulmert Limited**

Engineering, Environmental & Planning Consultancy Services

# **Cassington Quarry - Plant Area**

**Hanson Quarry Products Europe Limited** 

# **Environmental Permit Application**

**Supporting Document** 

# Prepared by:

#### **Caulmert Limited**

Nottingham Office, Strelley Hall, Main Street, Strelley, Nottingham, NG8 6PE

**Tel:** 01773 749132 **Fax:** 01773 746280

Email: andystocks@caulmert.com

Web: www.caulmert.com

Document Reference: 4656-CAU-XX-XX-RP-V-0300.A0.C1

October 2021



#### **APPROVAL RECORD**

Site: Cassington Quarry

Client: Hanson Quarry Products Europe Limited

**Project Title:** Environmental Permit Application

**Document Title:** Supporting Document

**Document Ref:** 4656-CAU-XX-XX-RP-V-0300.A0.C1

Report Status: Final

**Project Manager:** Andy Stocks

Caulmert Limited: Nottingham Office, Strelley Hall, Strelley, Main Street, Nottingham, NG8 6PE

Author	Kellie-Marie Pacifico Burston Senior Environmental Consultant	Date	04/10/2021
Reviewer	Andy Stocks Associate Director	Date	04/10/2021
Approved	Andy Stocks Associate Director	Date	04/10/2021

Revision Log			
Revision	Description of Change	Approved	Effective Date
C1	Initial Release	AS	13/10/2021

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# **SUPPORTING DOCUMENT**

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# **DRAWINGS**

**4656-CAU-XX-XX-DR-V-1801** Sensitive Receptors Plan **4656-CAU-XX-XX-DR-V-1802** Site Boundary Plan

**C4-HAN-05-4C** Restoration Scheme

# **APPENDICES**

Appendix 1	Waste Recovery Plan and EA Approval Letter
Appendix 2	Directors Date of Birth
Appendix 3	Pre-Application advice
Appendix 4	WAMITAB certificates
Appendix 5	Competency Certificates
Appendix 6	Waste Acceptance Procedures
Appendix 7	Hanson Declaration

#### 1.0 INTRODUCTION

# 1.1 Application Context

- 1.1.1 Caulmert Limited have been appointed by Hanson Quarry Products Europe Limited (referred to as 'Hanson') to prepare and submit a Bespoke Environmental Variation application at the former processing plant area (hereafter referred to as the 'application site') in Cassington Quarry, Yarnton, Oxfordshire, for the following activities:
  - Undertake a waste recovery operation to restore the application site; and,
  - Aggregates recycling facility to produce soil, soil substitutes and aggregates;
- 1.1.2 The client wishes to undertake a waste recovery operation in accordance with the Waste Recovery Plan (WRP) produced by WYG that was prepared and submitted to the Environment Agency under document reference 'Waste Recovery Plan Cassington Quarry, version FINAL, Nov 2020' to import approximately 279,000 tonnes (155,000m³) of inert waste for the revised restoration scheme for the plant area under a waste recovery activity. It is expected that restoration will be completed in 5-6 years and possibly sooner depending on the availability of suitable materials.
- 1.1.3 The EA have fully assessed the WRP and have agreed that the proposals meet the requirements that the proposed activity is a recovery operation. A copy of the WRP and EA approval letter in included in Appendix 1 of this document. No changes are proposed to the scheme as detailed within the approved WRP.
- 1.1.4 The site will be restored as shown in the revised restoration scheme drawing ref.C4-HAN-05-4C and the proposed landform restored to create grassland, perimeter tree and shrub planting with areas of open water in the south-eastern section of the site. Selected restoration materials will be used to form the northern slope of the wetland ponds. Where possible this will comprise site derived materials or selected (cohesive) soils.
- 1.1.5 The Operator is proposing to utilise an Aggregates Recycling Facility (with no fixed location) for the treatment of waste to produce soil, soil substitutes and secondary aggregates to be imported off site for sale/onwards dispatch and the processed soils will be used for restoration infill at the site. On the odd occasion, should suitable soils be identified, Hanson will seek opportunities for export/sales.
- 1.1.6 Therefore, the client wishes to apply for a bespoke permit application for the importation of inert wastes as a recovery operation and undertake aggregates recycling as a bespoke waste treatment operation at Cassington Quarry.

# 1.2 Site Location and Surrounding Land Use

1.2.1 Cassington Quarry is approximately 7.12 hectares in size and is located at national grid reference (NGR) SP 47447 11253. The site boundary is shown in drawing ref. 4656-CAU-XX-XX-DR-V-1802. The site is located c.1km southwest of the village of Yarnton and 1.5km northeast of the village of Cassington with the nearest town being Eynsham located 4km to the south west.

#### 1.3 Document Structure

- 1.3.1 This Supporting Document has been prepared to provide additional information to support the information provided in Parts B2 and B4 of the environmental permit application forms For a new bespoke waste operation.
- 1.3.2 To aid cross-referencing between this document and the application form, the various issues are presented in the same order as in the application form and the headings in this document include the specific question number to which the information relates.

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# 2.0 PART A APPLICATION FORM

# 2.1 Q5c Directors Details

2.1.1 Details of the Company Directors and their Date of Birth information is attached in Appendix2. this information should be kept confidential and withheld from the Public Register.

#### 3.0 PART B2 APPLICATION FORM

# 3.1 Q1 Pre-application discussions

3.1.1 Pre-application discussions with the Environmental Agency have agreed that two application charges are required for the 'deposit for recovery' application and the 'aggregates recycling facility'. A copy of the pre-application advice is included in Appendix 3, EA reference EPR/KB3309MQ/A001.

#### 3.2 Q3a Relevant Offences

- 3.2.1 There are no unspent convictions to date for Hanson.
- 3.2.2 The Technical Competent Manager for the site is David Holman a copy of the original WAMITAB and Continuing Competence certificate is detailed in Appendix 4. Table 3: TCM Details

# 3.3 Q3c Finances

3.3.1 There are no current or past bankruptcy or insolvency proceedings against any relevant persons with Hanson.

# 3.4 Q3d Management Systems

- 3.4.1 The application site is managed by the operator in accordance with a management system which meets the Environment Agency Standards.
- 3.4.2 Hanson operate according to their company Management System, they are accredited under the ISO 14001 and ISO 9001. A copy of their Certificate of Registration is included in Appendix5.
- 3.4.3 The Operator will also implement a number of site-specific procedures and documents to control the waste recovery operations at the site, a summary of their integrated management system is detailed below in Table 1.

**Table 1: Hanson EMS Summary** 

SYSTEM PROCEDURES			
Cover the requirements of the management systems for Quality (ISO 9001), Environment			
(14001), Ene	(14001), Energy (50001) and Health & Safety (18001). In a single system they meet the		
requirement	requirements of an Integrated Management System (PAS 99).		
UK SP001	Document Control and Record Storage		
UK SP002	Management Review		
UK SP003	Audits		
UK SP005	UK SP005 Non-Conformance, Corrective and Preventive Actions		
UK SP006 Training, Competence and Awareness			
UK SP007	UK SP007 Objectives, Targets and Programme		
UK SP008	JK SP008 Responsibilities and Roles		
UK SP009	UK SP009 Identification, Implementation and Compliance Checking of Legal and other		
requirements			

UK SP010	Monitoring and Measurement of Product and Service including suitable
	equipment
UK SP011	Sustainability Policy, Communication and Consultation
UK SP013	Product Design and Development
UK SP014	Control of Permits and Site Documentation
UK SP015	Customer Complaints
UK SP016	Reporting of Accidents, Incidents and Regulatory Visits
UK SP018	Management of Change
UK SP019	Energy Planning, Monitoring and Improvement
UK SP100	IMS Manual

#### 2.4 Q5a: Plans for the site

3.4.4 Site plans are attached as part of this application include:

4656-CAU-XX-XX-DR-V-1801: Sensitive Receptors Plan

4656-CAU-XX-XX-DR-V-1802: Permit Boundary

# 2.5 Q 5b: Provide the relevant sections of a Site Condition/Baseline Report

3.4.5 A Site Condition Report has been included in the ESSD report under document ref: 4656-CAU-XX-XX-RP-V-0303.

#### 2.6 Q 5c: Provide a Non-Technical Summary

- 3.4.6 Caulmert Limited have been appointed by Hanson Quarry Products Europe Limited (referred to as 'Hanson'), to prepare and submit a Bespoke Environmental Variation application at the former processing plant area (hereafter referred to as the 'application site') in Cassington Quarry, Yarnton, Oxfordshire, for the following activities:
  - Undertake a waste recovery operation to restore the application site; and,
  - Aggregates recycling facility to produce soil, soil substitutes and aggregates;
- 3.4.7 The client wishes to undertake a waste recovery operation in accordance with the Waste Recovery Plan (WRP) produced by WYG that was prepared and submitted to the Environment Agency under document reference 'Waste Recovery Plan Cassington Quarry, version FINAL, Nov 2020' to import approximately 279,000 tonnes (155,000m³) of inert waste for the revised restoration scheme for the plant area under a waste recovery activity. It is expected that restoration will be completed in 5-6 years and possibly sooner depending on the availability of suitable materials.
- 3.4.8 The EA have fully assessed the WRP and have agreed that the proposals meet the requirements that the proposed activity is a recovery operation. A copy of the WRP and EA approval letter in included in Appendix 1 of this document. No changes are proposed to the scheme as detailed within the approved WRP.

- 3.4.9 The site will be restored as shown in the revised restoration scheme drawing ref.C4-HAN-05-4C and the proposed landform restored to create grassland, perimeter tree and shrub planting with areas of open water in the south-eastern section of the site. Selected restoration materials will be used to form the northern slope of the wetland ponds. Where possible this will comprise site derived materials or selected (cohesive) soils.
- 3.4.10 The Operator are proposing to utilise an Aggregates Recycling Facility (with no fixed location) for the treatment of waste to produce soil, soil substitutes and secondary aggregates to be imported off site for sale/onwards dispatch and the processed soils will be used for restoration infill at the site. On the odd occasion, should suitable soils be identified, Hanson will seek opportunities for export/sales. It is proposed that a 279,000 tonnes of material is required to retore the site, therefore a maximum of 279,000 tonnes of materials will be treated annually at a maximum rate of 1000 tonnes per day, no more than 40,000 tonnes of material will be stored at any one time.
- 3.4.11 Imported material will be dry screened and the crushing of oversized materials i.e. concrete and brick will be undertaken to produce secondary aggregates. All waste will be handled and stored at site in accordance with the specific properties of the waste. Whilst the aggregates recycling facility will be a mobile unit, it will be carried out within the permitted boundary for the recovery operation.
- 3.4.12 In preparing this Bespoke Environmental Permit Variation an evaluation of the potential environmental risks and impacts was undertaken. The risks of nuisance emissions such as litter, odour, pests, noise, dust and accidents from the proposed operations are included in the Accidents and Amenity Risk Assessment (document ref. 4656-CAU-XX-XX-RP-V-0302). Following an assessment of dust, a Dust and Emissions Management Plan has also been produced which further details the possible dust emissions and risks to sensitive receptors generated under document ref. 4656.CAU-XX-XX-RP-V-0304. In addition, a Climate Change Risk Assessment was undertaken (document ref. ef.4656-CAU-XX-XX-RP-V-0301) as required by Part B2 'New Bespoke Permit' application form. The risk assessments have identified that the potential of nuisance emissions and climate change risk as a result of the proposed operations is unlikely to significantly impact on the surrounding environment. An Environmental Site Setting and Design report has also been included under document reference 4656-CAU-XX-XX-RP-V-0303.AO.C1, which includes the Hydrogeological Risk Assessment which has been prepared as part of the bespoke permit application.

# 2.7 Q 6a: Environmental Risk Assessment

3.4.13 An Amenity and Accidents Risk Assessment is included under document ref.4656-CAU-XX-XX-RP-V-0302.

# 2.8 Q 6b: Climate Change Risk Screening

3.4.14 A Climate Change Risk Assessment is included under document ref.4656-CAU-XX-XX-RP-V-0301.

- 2.9 Appendix 2 Date of birth information for Relevant Offences and/or Technical ability questions
- 3.4.15 Date of birth information for relevant persons are included within Appendix 2. As per Appendix 2 of the Part C2 form, Date of birth information will be withheld from the Public Register.

#### 4.0 PART B4 APPLICATION FORM – NEW BESPOKE WASTE OPERATION PERMIT

# 4.1 Table 1a – waste operations

4.1.1 The proposed bespoke permit application is for:

Deposit for Recovery – importation of inert wastes as a recovery operation; and,

<u>Aggregates Recycling Facility</u> - addition of an activity for the treatment of waste to produce soil, soil substitutes and aggregates from imported inert fill, where soils will be for use in the restoration of Cassington Quarry and secondary aggregates sent off site.

4.1.2 The aggregates recycling facility treatment will consist of sorting, separation, screening, crushing and blending of waste for recovery as a soil, soil substitute or aggregate with no fixed location.

Table 2: Waste operations which do not form part of an installation

Type of waste operation	Limits to the waste operation	Annex IIA or IIB (disposal and recovery codes) and description
Deposit of waste for Recovery	Total annual throughput of 279,000 tonnes per annum.	<b>R13</b> Storage of waste pending any of the operations numbered R3 to R5
	Secure storage and use of wastes for the purposes of reclamation, restoration or improvement of land as detailed in the approved waste	<b>R3:</b> recycling or reclamation of organic substances which are not used as solvents
	recovery plan.	<b>R5</b> Recycling/ reclamation of other inorganic materials
	Transfer and treatment of wastes consisting only of sorting, separation, screening, crushing and blending of waste for recovery as a soil, soil substitute or aggregate.	
Aggregates Recycling Facility	Secure storage of wastes pending treatment.	
	Total annual throughput of 279,000 tonnes per annum, up to 1000 tonnes per day.	
	Storage of wastes shall not exceed 40,000 tonnes in total at any one time.	

Maximum Annual throughput tonnes per year: 279,000

# 4.2 Table 1b – Types of Waste

- 4.2.1 Permitted wastes accepted at the site will be strictly inert as classified under the Landfill Direction (1999/31/EC) and Council Decision (2003/33/EC) of 19 December 2002 'establishing criteria and procedures for the acceptance of waste landfills'.
- 4.2.2 The proposed waste types for the Waste Recovery Operation and Recycling Aggregates facility are listed below in Table 3. These have been taken from the agreed WRP produced by WYG under document ref. 'Waste Recovery Plan Cassington Quarry, version FINAL, Nov 2020'.

**Table 3: List of waste codes for Waste Recovery Operation** 

EWC Code	Description	Restriction	
01	WASTE RESULTING FROM EXPLORATION, MININ PHYSICAL AND CHEMICAL TREATMENT OF MINE		
01 01	Wastes from mineral excavation		
01 01 02	Waste from non metalliferous excavation	Restricted to waste overburden and interburden only	
01 04	Wastes from physical and chemical processing of minerals	f non-metafillerous	
01 04 08	Waste gravel and crushed rocks other than those mentioned in 04 04 06		
01 04 09	Waste sand and clay		
10	WASTES FROM THERMAL PROCESSES		
10 12	Wastes from manufacture of ceramic goods, bri construction products	cks, tiles and	
10 12 08	Waste ceramics, brick, tiles and construction products (after thermal processing)		
10 13	Wastes from manufacture of cement, lime and plaster and articles and products made from them		
10 13 14	Waste concrete		
17	CONSTRUCTION AND DEMOLITION WASTES (INC SOIL FROM CONTAMINATED SITES)	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	
17 01	Concrete, bricks, tiles and ceramics		
17 01 01	Concrete	Selected C&D waste only	
17 01 02	Bricks	Selected C&D waste only	
17 01 03	Tiles and ceramics	Selected C&D waste only	
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 1701 06	Selected C&D waste only. Metal from reinforced concrete must have been removed.	
17 03	bituminous mixtures, coal tar and tarred products		
17 03 02	road base and road planings (other than those co	road base and road planings (other than those containing coal tar) only	
17 05	Soil (including excavated soil from contaminated sites), stones and dredging spoil		
17 05 04	Soil and stones other than those mentionedin 17 05 03	Excluding topsoil, peat; excluding soil and stones from contaminated sites	

19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE		
19 12	Wastes from the mechanical treatment of waste (for example sorting,		
1312	crushing, compacting, pelletising) not otherwise	specified	
		Wastes from the treatment of	
		waste aggregates that are	
		otherwise naturally occurring	
19 12 09	Minerals only	minerals. Does not include fines	
		from treatment of any non-	
		hazardous waste or gypsum from	
		recovered plasterboard.	
		Restricted to crushed bricks, tiles,	
		concrete and ceramics only. Metal	
	Other wastes from mechanical treatment of	from reinforced concrete must be	
19 12 12	wastes other than those mentioned in 19 1212	removed. Does not include fines	
		from treatment of any non-	
		hazardous waste or gypsum from	
		recovered plasterboard.	
	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL,		
20	INDUSTRIAL AND INSITUTIONAL WASTES) INCLUDING SEPARATELYCOLLECTED FRACTIONS		
20 02	Garden and park wastes (including cemetery was	Garden and park wastes (including cemetery waste)	
20 02 02	Soil and stones	Only from garden and parks waste;	
20 02 02	Soil dilu stolles	excluding topsoil, peat.	

- 4.2.3 These waste types are identified by the Environment Agency as suitable for use in the restoration of mineral workings and as general fill material.
- 4.2.4 Waste acceptance procedures for the proposed waste types are detailed in Appendix 6.

# 4.3 Q 1c: Deposit for Recovery Purposes

- 4.3.1 The Cassington Quarry Plant Area Waste Recovery Plan is included within this Supporting Document under Appendix 1.
- 4.3.2 The Waste Recovery Plan was submitted to the EA in November 2020, application advice from the EA dated 23<sup>rd</sup> December 2020 (Appendix 1) 'Recovery or Disposal Operation' validates that the assessment made on the Plant Area is confirmed as a recovery operation.

# 2.10 Table 2: Point Source Emissions to air, water and land

4.3.3 An 'Amenity and Accident Risk Assessment' (ref: 4656-CAU-XX-XX-RP-V-0302-A0.C1) has been prepared to support the permit application. There are no anticipated point source emissions at the site as a result of this application.

# 2.11 Q3a: Technical standards

- 4.3.4 The proposed main activities to be carried out at the site are:
  - Deposit of Waste for Recovery;

- Transfer and treatment of wastes to produce soil, soil substitutes for use in restoration fill and secondary aggregates for onwards dispatch.
- 4.3.5 As part of the waste acceptance procedures, all incoming waste hauliers will report to the weighbridge. The Waste Acceptance Procedures will be amended to ensure that only wastes detailed in Table 5 (in Section 4.2 of this document) are accepted for the waste recovery and aggregates recycling facility and recovery activity.
- 4.3.6 A waste acceptance procedure is included (Appendix 6) to ensure that only permitted wastes are accepted at Cassington Quarry Plant Area including entry types of 'Absolute Non-Hazardous' and 'Mirror Non-Hazardous' wastes. The Waste Acceptance Procedures (Appendix 6) details procedures to ensure that no hazardous wastes or mirror entries are accepted to site.
- 4.3.7 All wastes must be handled and stored at the site in accordance with the specific properties of the waste. The principles that will be adhered to are as follows:

	Specified wastes - requirements for infrastructure, storage, handling or treatment
Waste category:	Inert construction and demolition wastes
Surfacing and drainage	Inert material will be stockpiled on the existing site surface before processing.
Additional equipment / infrastructure	Screens and crushers will be used to process material. Dust suppression measures utilised on site if necessary, only sufficient water will be used.
Storage	Soils/hard-core may become dusty as the surface is drying out so may need dampening down during storage. Only sufficient water will be used in the event of dampening down material.
Handling / treatment	Screening and crushing using mobile plant and equipment.

- 4.3.8 Technical standards to be employed include;
  - Guidance Note EPR 1 How to Comply with Your Environmental Permit.
  - Hanson Management System.
  - 'Amenity and Accident Risk Assessment', document ref. 4656-CAU-XX-XX-RP-V-0302.A0.C1.
  - Dust and Emissions Management Plan, document ref. 4656-CAU-XX-XX-RP-V-0304.A0.C1.
  - Climate Change Risk Assessment, document ref. 4656-CAU-XX-XX-RP-V-0301.A0.C1.

# 2.12 Q3b: General Requirements

- 4.3.9 The site has its own management system which covers dust and noise/vibration. These have also been addressed in the Amenity and Accidents risk assessment and are not considered to be high risk from the proposed operation.
- 4.3.10 The risks of odour is not considered to be a risk due to the inert nature of the materials to be accepted for aggregates recycling and deposit of waste for recovery. This is addressed in the Amenity and Accidents Risk assessment, document ref.4656-CAU-XX-XX-RP-V-0302.A0.C1.
- 4.3.11 The risks of noise and/or vibration is assessed in the Amenity and Accidents Risk Assessment, document ref.4656-CAU-XX-XX-RP-V-0302.A0.C1.
- 4.3.12 A Climate Change Risk Assessment has been submitted under document ref. 4656-CAU-XX-XX-RP-V-V-0301.A0.C1.
- 4.3.13 A Dust and Emissions Management Plan is included in this application under document ref. 4656-CAU-XX-XX-RP-V-0304.A0.C1 which assess the impacts, control and mitigation measures as a result of the proposed operations at Cassington Quarry Plant Area.

# 2.13 Q4a: Monitoring measures for point source emissions

4.3.14 There are no specific point source emissions from the proposed operations on site.

### 2.14 Q4b: Point source emissions to air only

2.14.1 There are no specific point source emissions to air from the proposed operations on site.

# 2.15 Appendix 2: Specific Questions for inert waste landfill and deposit for Recovery operations

- 2.15.1 Question 1: Pease see document ref.4656-CAU-XX-XX-RP-V-0303.A0.C1 'Environmental Setting and Site Design (ESSD) Report'.
- 2.15.2 Question 2: Waste Acceptance Procedures are included in Appendix 6 within this document.
- 2.15.3 Question 3: The Hydrogeological Risk Assessment (HRA) is included under 4656-CAU-XX-XX-RP-V-0305.A0-C1.
- 2.15.4 Question 4: an Outline Engineering Plan is not required to support this application see ESSD report.
- 2.15.5 Question 5: The impact on the stability of the site is included in the 'Environmental Setting and Site Design (ESSD) Report'4656-CAU-XX-XX-RP-V-0303.A0.C1
- 2.15.6 Question 6: Monitoring is covered in the 'Environmental Setting and Site Design (ESSD) Report', document ref.4656-CAU-XX-XX-RP-V-0303.A0.C1.
- 2.15.7 Question 7: Site Closure Plan– please see ESSD report, 4656-CAU-XX-XX-RP-V-0303.A0.C1 'Environmental Setting and Site Design (ESSD) Report'

#### 5.0 PART F1 APPLICATION FORM

# 5.1 Q1: Working out Charges

2.15.8 The associated EA fees consist of the following elements:

Application	EA Fees
Bespoke Permit Application - Waste Recovery	£9,207
Bespoke Permit Application – Physical treatment of non-	£3,965
hazardous waste	(50% of £7,930)
Assessment of an Emissions Management Plan	£1,241
EA Habitats Assessment	£779
total	£15,192

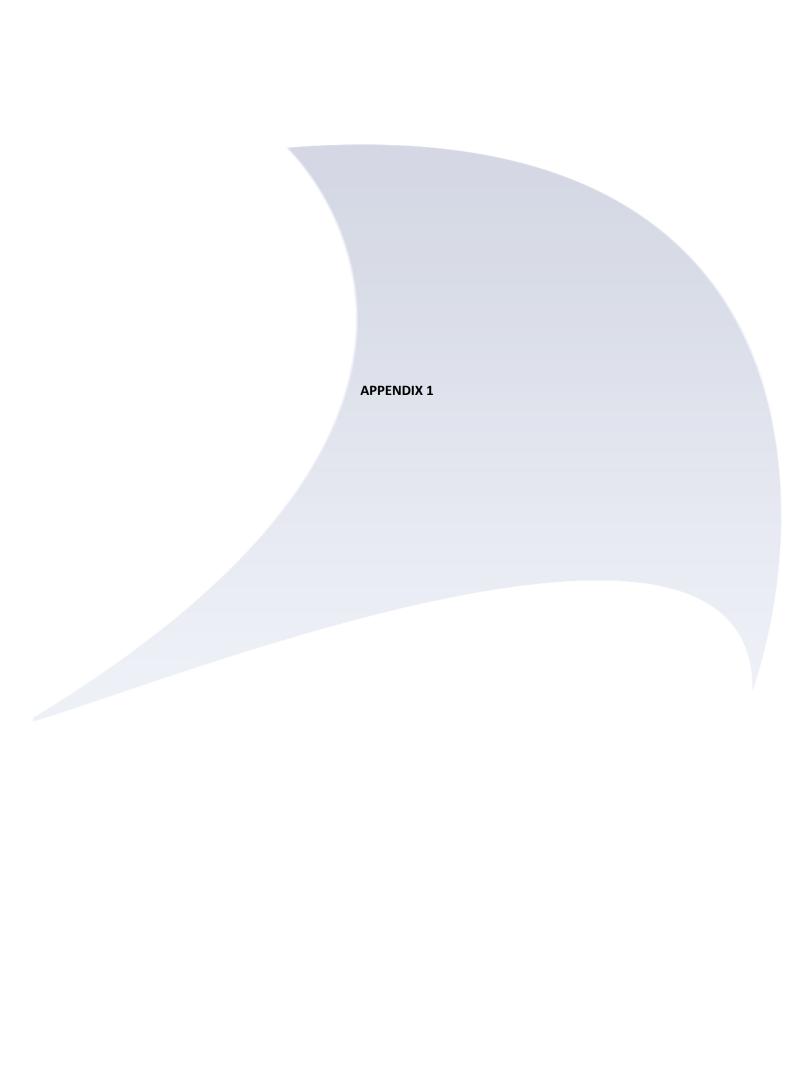
- 2.15.9 The fee for the Waste Recovery Plan has already been submitted and approved by the EA, therefore the EA fee of £1,231 detailed in Appendix 3, Pre-Application advice is not required. It is considered that the Amenity and Risk Assessment (document ref. 4656-CAU-XX-XX-RP-V-0302.A0.C1) has identified that Noise and Vibration will not result in significant impact to nearby sensitive receptors, thus not requiring the submission of a Noise & Vibration Management Plan with the application. Therefore, the fee for the assessment of a Noise and Vibration Management plan has not been included.
- 2.15.10 As agreed in pre-application advice ref. EPR/KB3309MQ/A001 (Appendix 3), the aggregates recycling facility is charged at 50% of the relevant application charge as it is considered a secondary activity that is part of the waste recovery operation.
- 2.15.11 A payment for the application of £15,192 has been made to the EA under BACS ref detailed in Part F1 application form.

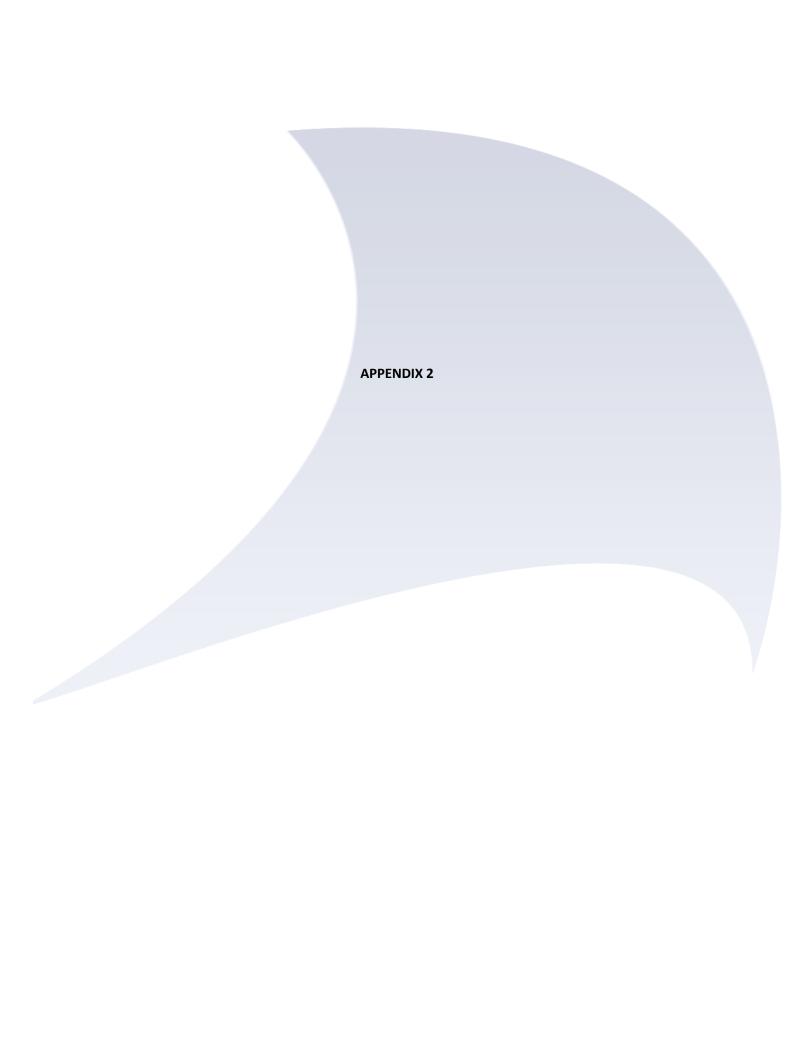
#### 5.2 Declaration

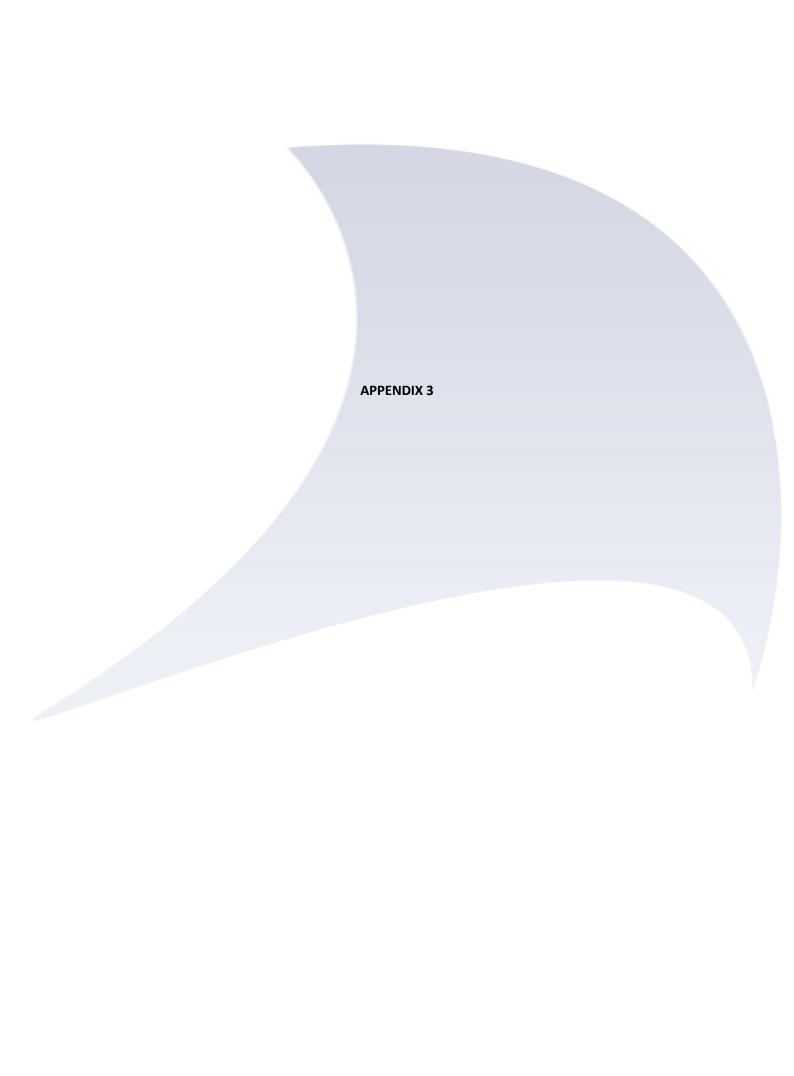
2.15.12 The Declaration part of the form has been authorised by the relevant person: David Holman, a letter of authorisation has been included in Appendix 7.

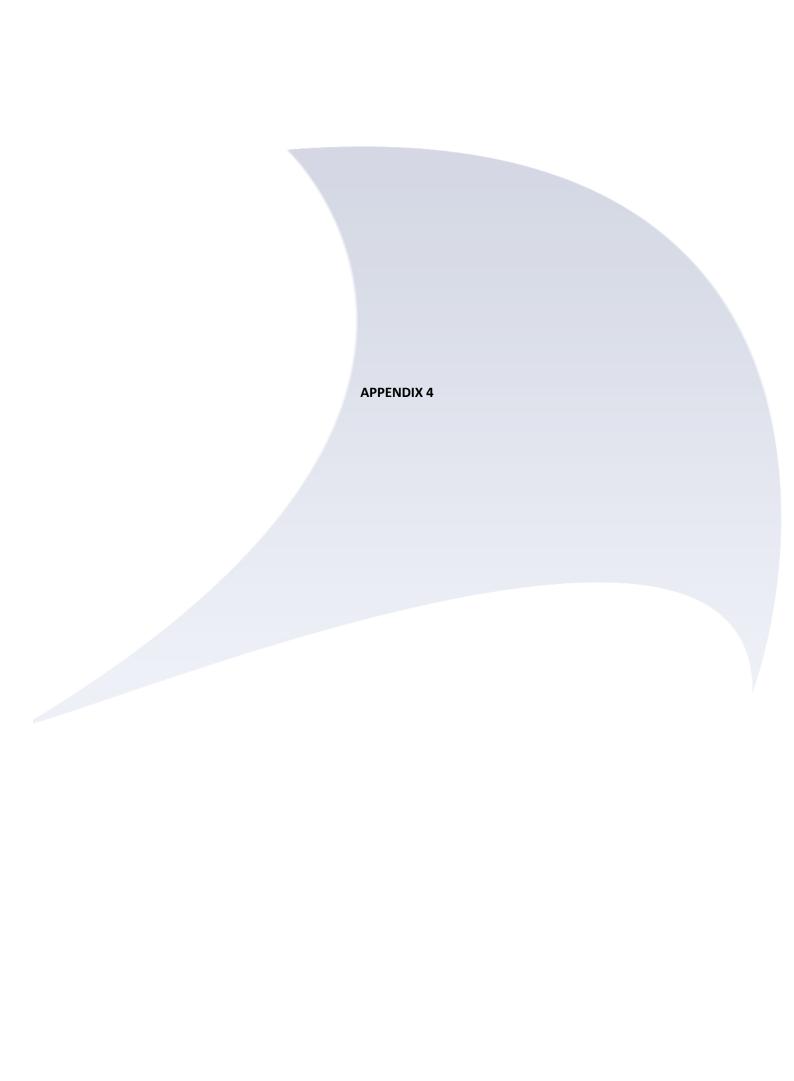
# **DRAWINGS**

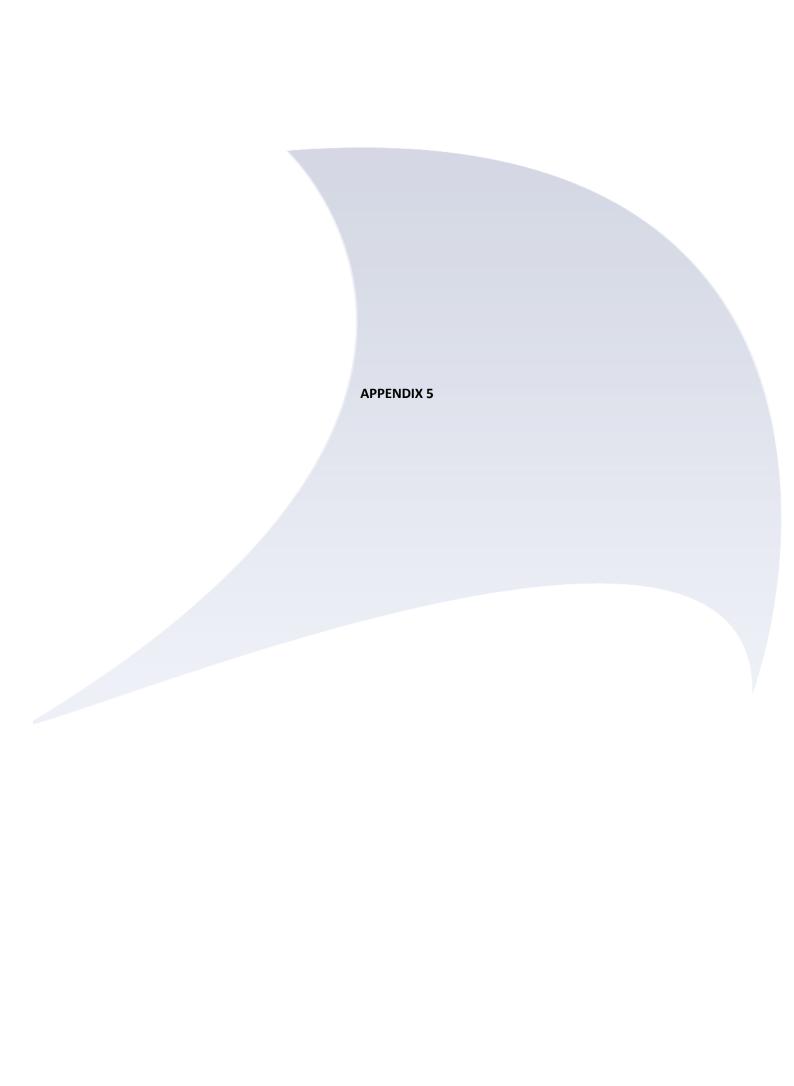
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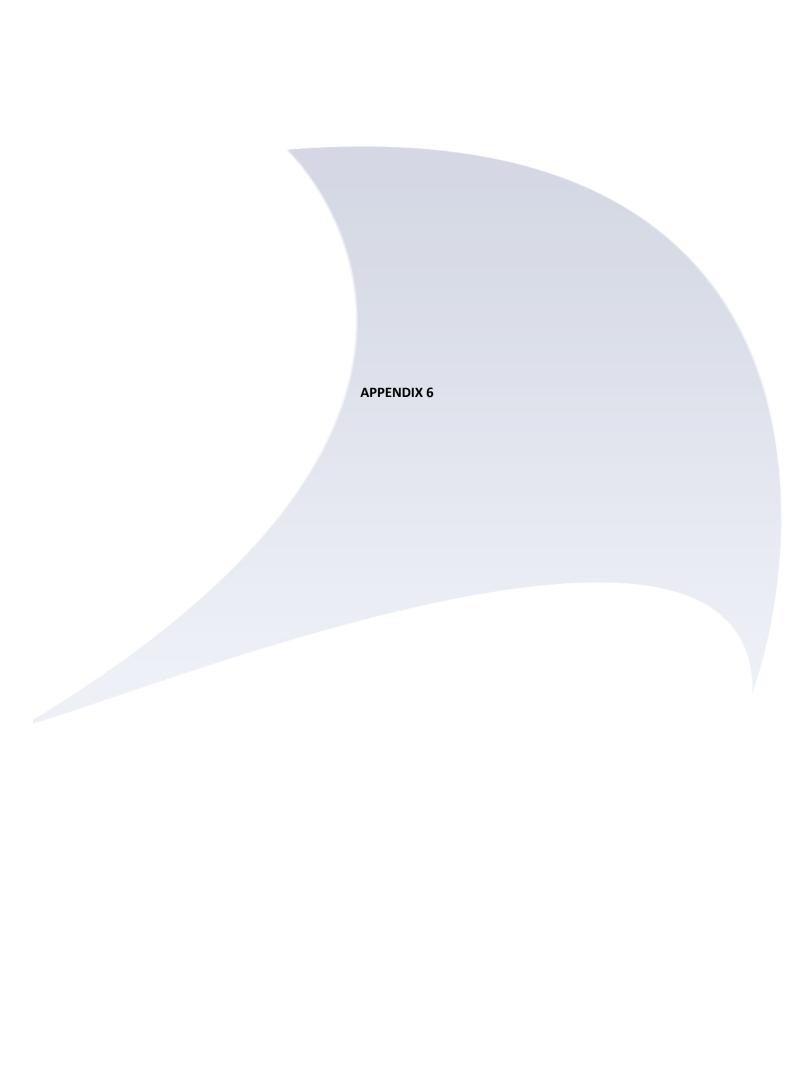


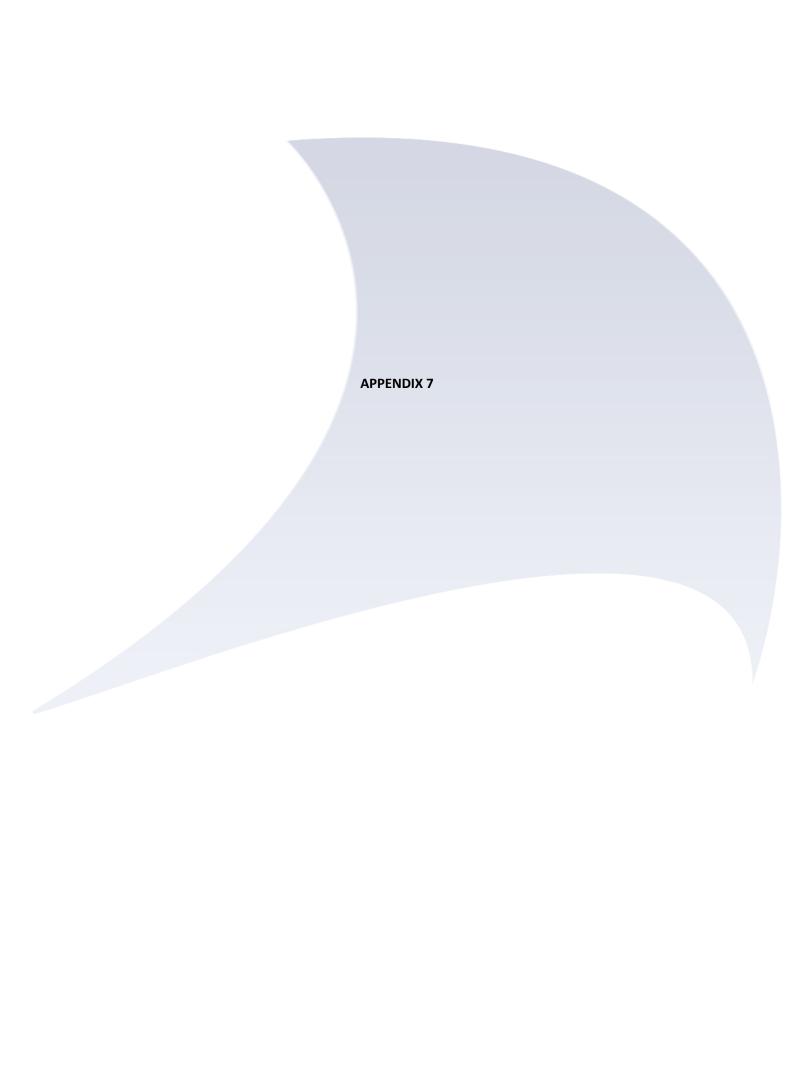














Registered Office: InTec, Parc Menai, Bangor, Gwynedd, LL57 4FG

**Tel:** 01248 672666 **Fax:** 01248 672601

**Email:** contact@caulmert.com **Web:** www.caulmert.com

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