

**TREATMENT OF WASTE TO PRODUCE SOIL, SOIL SUBSTITUTES AND  
AGGREGATES**

**OPERATING TECHNIQUES AND NON TECHNICAL SUMMARY**

**PAR CONTRACTORS LTD  
YNYS UCHAF  
BRYNTEG  
ANGELSEY  
GWYNEDD  
LL78 8JZ**

**Ref : CEC/PAR/01**

Permit Application

**CERI ENVIRONMENTAL  
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*Specialists in Waste & Environmental Management*

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## **1.1 Introduction**

This is an application for a tier 2 bespoke permit for a site at Ynys Uchaf, Brynteg, Angelsey, LL78 8JZ. The site meets all the locational requirements of SR 2010No12 except for the requirement to be over 500metres of a SSSI.

## **1.2 Specified Waste Management Operations**

**1.2.1** The specified waste management operations which are to be undertaken within the proposed permit boundary are :

- storage of waste pending any of the operations numbered R1 to R12 ( excluding temporary storage, pending collection, on the site where the waste is produced ) (R13)
- recycling or reclamation of organic substances which are not used as solvents, (R3)
- recycling or reclamation of other inorganic materials (R5)

The physical waste treatment will consist of sorting, screening, crushing, blending and separation of waste for recovery as a soil, soil substitute or aggregate.

**1.2.2** The waste operations will be undertaken within the area outlined in green on Drawing number CEC/PAR/01.

**1.2.3** The facility is for the use of PAR Contractors Ltd and is also open to third party general hauliers.

**1.2.4** The site is not located within a groundwater Source Protection Zone 1 or 2 and so the aggregate and soil treatment and waste transfer operations will be undertaken outside on hardstanding as a minimum standard.

**1.2.5** The maximum total quantity of wastes stored and treated at the site will be in accordance with the SR 2010 No.12.

## **2.1 General site operations**

**2.1.1** The site has an in house Environmental Management System (EMS) and intends to implement the WRAP Quality Protocol for the Production of Aggregates from Inert Waste.

**2.1.2** Site operations involve the delivery of waste soils, stones and construction materials. These materials are stockpiled until there is sufficient material to sort/screen/crush and blend the

waste. At the moment screening takes place on an ongoing basis during operational hours to ensure that material is screened at the optimum time for recycling ie material not too wet or dry. Once screened the material is stockpiled until sufficient to crush any oversized aggregate.

The treatment activities on site may include manual or mechanical sorting, separation, screening, crushing and blending and there may be metal removal with magnets if this proves to be needed to remove metal from concrete waste.

**2.1.3** The generic risk assessment for the SR2010No12 is applicable to this application and the site. However, an additional risk assessment has been undertaken to consider the risks posed by the site to the SSSI. Any potential risks from the site such as mud, dust and noise will be controlled by measures outlined in the EMS. However, to summarise control techniques will be employed as follows.

#### **2.1.4 Control of Mud and Debris**

Mud on the highways may result from vehicles leaving the site. The yard area will be maintained and pot holes filled as soon as is reasonably possible with suitable material to reduce the risk of water pooling on site. The access road and yard area will be monitored as part of the EMS for mud and in the event that mud is deposited on the highway outside the site entrance action will be taken to clean the road within that working day.

#### **2.1.5 Control of Dust and Particulates**

The following prevention and control measures will be implemented to ensure that the emission of dust and particulates are minimised at the site boundary:

Measures	Specification
Physical containment and controls	<ul style="list-style-type: none"><li>• Aggregate and soil waste treatment will not take place of very windy days.</li><li>• Water spray will be used as a dust suppressant.</li><li>• Vehicles will stay on hardstanding areas</li><li>• Regularly clean and dampen down roadways</li><li>• Dampen down stockpiles or cover them</li><li>• Enclose any conveyors</li><li>• Reduce drop heights</li></ul>
Monitoring	<ul style="list-style-type: none"><li>• Visual monitoring by site operator</li></ul>

The site is not located in an AQMA.

#### **2.1.6 Control of Noise**

The following prevention and control measures will be implemented to ensure that the noise is minimised at the site boundary:

Measures	Specification
Operational procedures	<ul style="list-style-type: none"><li>• Use silencers on vehicles and plant</li><li>• Site opening hours restrict noisy operations</li><li>• Reduce drop heights for waste</li><li>• Auditory monitoring noise levels at different places and times</li><li>• Maintain equipment adequately</li><li>• Enclosure or abatement eg acoustic screens if needed</li><li>• Switch noisy plant off when not in use</li></ul>
Monitoring	<ul style="list-style-type: none"><li>• Any complaints regarding noise will be investigated by site operator</li></ul>

**2.1.7** Any complaints received regarding the operation of the waste management facility will be investigated immediately by the site management and Natural Resources Wales will be informed of the complaint and the remedial action to be taken.

### **3.1 Waste Acceptance and Control Procedures**

**3.1.1** There will be careful control over waste inputs with a comprehensive waste acceptance procedure in the EMS. Enquires regarding all sources of waste will be made and if necessary site investigation reports and analyses will be required to confirm that the material is not contaminated. As a result the quality of the outputs will be consistent and will when appropriate be to a quality standard. There are ready markets for these products.

**3.1.2** In the unlikely event that any unauthorised waste or potentially contaminated waste is identified once a vehicle has entered the site the unauthorised waste will be segregated and the source and nature of the waste investigated further. If necessary samples will be taken and analysed for an appropriate suite of determinands before the waste is processed.

If the material proves not to be suitable for reprocessing it will be quarantined and removed to a suitably permitted facility as soon as is practicable.

## 4.0 Waste Types

**Table 2.3 Waste types**

### Exclusions

Wastes having any of the following characteristics shall not be accepted:

- Consisting solely or mainly of dusts, powders or loose fibres
- Hazardous wastes
- Wastes in liquid form

Waste Code	Description
<b>01</b>	<b>WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS</b>
<b>01 04</b>	<b>wastes from physical and chemical processing of non-metalliferous minerals</b>
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
<b>02 02</b>	<b>waste from preparation and processing of meat, fish and other foods of animal origin</b>
02 02 02	shellfish shells from which the soft tissue or flesh has been removed only
<b>03</b>	<b>WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD</b>
<b>03 01</b>	<b>wastes from wood processing and the production of panels and furniture</b>
03 01 01	waste bark and cork
<b>03 03</b>	<b>wastes from pulp, paper and cardboard production and processing</b>
03 03 01	waste bark and wood
<b>10</b>	<b>WASTES FROM THERMAL PROCESSES</b>
<b>10 01</b>	<b>waste from power stations and other combustion plants</b>
10 01 01	bottom ash and slag only
10 01 02	pulverised fuel ash only
10 01 05	gypsum (solid) only
10 01 07	gypsum (sludge) only
10 01 15	bottom ash and slag only from co-incineration other than those mentioned in 10 01 14
<b>10 11</b>	<b>wastes from manufacture of glass and glass products</b>
10 11 12	clean glass other than those mentioned in 10 11 11
<b>10 12</b>	<b>wastes from manufacture of ceramic goods, brick, stiles and construction products</b>
10 12 08	waste ceramics, bricks, tiles and construction products(after thermal processing)
<b>10 13</b>	<b>wastes from manufacture of cement, lime and plaster products and articles and products made from them</b>
10 13 14	waste concrete only
<b>15</b>	<b>WASTE PACKAGING</b>

<b>15 01</b>	<b>packaging</b>
15 01 07	clean glass only
<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>
<b>17 01</b>	<b>concrete, bricks, tiles and ceramics</b>
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
<b>17 02</b>	<b>wood, glass and plastic</b>
17 02 02	clean glass only
<b>17 03</b>	<b>bituminous mixtures, coal tar and tarred products</b>
17 03 02	road base and road planings (other than those containing coal tar) only
<b>17 05</b>	<b>soil (including excavated soil from contaminated sites) stones and dredging spoil</b>
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 08	track ballast other than those mentioned in 17 05 07
<b>17 08</b>	<b>gypsum based construction material</b>
17 08 02	gypsum only other than that mentioned in 17 08 01
<b>19</b>	<b>WASTES FROM WASTE MANAGEMENT FACILITIES, OFF SITE WASTE WATER TREATMENT PLANTS AND PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION / INDUSTRIAL WASTE</b>
<b>19 05</b>	<b>wastes from aerobic treatment of solid waste</b>
19 05 03	compost from source segregated biodegradable waste only
<b>19 08</b>	<b>wastes from waste water treatment plants not otherwise specified</b>
19 08 02	washed sewage grit (waste from desanding) free from sewage contamination only
19 08 99	stone filter media if free from sewage contamination only
<b>19 09</b>	<b>wastes from the preparation of water intended for human consumption or water for industrial use</b>
19 09 02	sludges from water clarification
<b>19 12</b>	<b>wastes from the mechanical treatment of wastes</b>
19 12 05	clean glass only
19 12 09	minerals (for example sand, stones)
19 12 12	treated bottom ash including IBA and slag other than that containing hazardous substances only
<b>19 13</b>	<b>wastes from soil and groundwater remediation</b>
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
<b>20</b>	<b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS</b>
<b>20 01</b>	<b>separately collected fractions</b>
20 01 02	clean glass only
<b>20 02</b>	<b>garden and park wastes</b>
20 02 02	soil and stones

## 2.4 Operating techniques

### 2.4.1 The activities shall be operated using the techniques and in the manner described in Table 2.4 below.

Table 2.4 Operating techniques	
When located within groundwater Source Protection Zones 1 or 2 the specified wastes below shall be stored and treated on an impermeable surface with a sealed drainage system.	
When located outside groundwater Source Protection Zones 1 or 2 all permitted wastes shall be stored and treated on hard-standing or on an impermeable surface with sealed drainage system.	
Waste Code	Description
03 01 01	waste bark and cork
03 03 01	waste bark and wood
10 01 01	bottom ash and slag only
10 01 05	gypsum (solid) only
10 01 07	gypsum (sludge) only
10 01 15	bottom ash and slag only from co-incineration other than those mentioned in 10 01 14
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 08 02	gypsum only other than that mentioned in 17 08 01
19 05 03	compost from source segregated biodegradable waste only
19 09 02	sludges from water clarification
19 12 12	treated bottom ash including IBA and slag other than that containing hazardous substances only
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03

## 5.0 Processing Schematic

