TREATMENT OF WASTE TO PRODUCE SOIL, SOIL SUBSTITUTES AND AGGREGATES

OPERATING TECHNIQUES AND NON TECHNICAL SUMMARY

Ref : CEC/NT/WC/3

Permit Application

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1.1 Introduction

This is an application for a tier 2 bespoke permit for a site at Tre Marl Industrial Estate, Llandudno Junction, Conwy. 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/WC/001.

1.2.3 The facility is for the use of Worldcare Recycling Limited 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	• Aggregate and soil waste treatment will not take place of very windy days. • Water spray will be used as a dust suppressant. • Vehicles will stay on hardstanding areas • Regularly clean and dampen down roadways • Dampen down stockpiles or cover them • Enclose any conveyors • Reduce drop heights
Monitoring	• Visual monitoring by site operator

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	• Use silencers on vehicles and plant • Site opening hours restrict noisy operations • Reduce drop heights for waste • Auditory monitoring noise levels at different places and times • Maintain equipment adequately • Enclosure or abatement eg acoustic screens if needed • Switch noisy plant off when not in use
Monitoring	• Any complains regarding noise will be investigated by site operator

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 quaratined and removed to a suitably permitted facility as soon as is practicable.

4.0 Processing Schematic