

DDE (SW) Limited 2 - Smithleigh, Plympton, Plymouth, Devon, PL7 5AX - EAWML 102530

Non-Technical Summary

1.0 Introduction

DDE (SW) Limited are a waste management provider within Plymouth, Devon. They operate an aggregates recycling facility at their permitted site at Smithleigh, Plympton, Plymouth, Devon, PL7 5AX - EAWML 102530. The site currently operates under the following standard rules - SR2010 No 12: treatment of waste to produce soil, soil substitutes and aggregates.

The operation has seen the addition of a wash plant to enable recycled aggregates to be washed and cleaned to high standard to allow end of waste to be met.

During a Environment Agency compliance inspection dated 18 September 2020 report ID 102530/0372920 and the following was advised –

I have scored you a C3 under permit condition 2.1.1:

The operator is only authorised to carry out the operations specified in table 2.1 below ("the activities"): Treatment of wastes listed in table 2.3 consisting of sorting, separation, screening, crushing and blending of waste for recovery as soil, soil substitute or aggregate. The site purchased a washer in March (Photo 1) and are now cleaning the aggregates before sorting. Washing of the aggregates does not fall under this SR permit for treating waste. I have consulted my colleagues and have been advised that you must apply for a bespoke permit for these activities to be included. Furthermore, the SR permit is in the process of being varied & I have included an extract from the new wording: "Treatment is limited to sorting, separation, screening, crushing and blending. Soil washing is not permitted..."

In addition the operation will become busier and as a result the annual tonnage is predicted to surpass that allowed 75,000 tpa with the current standard rules permit ref - SR2010 No 12 and as result the tonnage will be required to be increased to 104,000 tpa.

In addition it is evident that certain permitted waste streams permitted under the current permit can arrive at the site as a mixture for example 17 01 01 concrete and road base and road planings, as a result the following EWC code will be added 17 09 04 *mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03.*

Finally the site employs the use of a mechanical road sweeper to keep internal roads and importantly external roads clean. As a result EWC code 20 03 03 will be added to the permit to allow street cleaning residues to be accepted at the site.

2.0 Waste stream acceptance

The proposed waste streams accepted at the site will be in line with those currently permitted at the site under SR2010 No 12 and with the addition of -

17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	
17 09	Other construction and demolition	
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03 <i>being a mixture of 170101 and 170107</i>	Solid
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	
20 03	Other municipal wastes	
20 03 03	street-cleaning residues	Liquid, sludge, solid

3.0 Industries Serviced

DDE (SW) Limited serve predominantly the construction and demolition sectors.

4.0 Hazardous waste

DDE (SW) Limited will not accept any hazardous waste at the facility a strict waste acceptance process will be in place and adhered to.

5.0 Smithaleigh Site

The Smithaleigh site is situated within the administrative area of Devon Council and is 550m to the south east of the village of Smithaleigh itself. The site is surrounded by farmland.

Access to the site is provided by a private road, access from either New Park Road or the A38 Devon Express way.

6.0 Recycling Process

The recycling process is simple as the site deals predominantly with construction and demolition wastes to produce soil, soil substitutes and aggregates.

Wastes that are in line with those set out in the permit are only to be accepted at the site. Wastes are delivered to the site and tipped in specific tipping areas. Concrete, tiles and blocks and bricks are run through a crusher with a magnet to ensure wastes are reduced to specific sizes and metals are removed such as reinforcement bar.

Again once crushed the waste is stored in stockpiles of certain sizes depending upon the specification required for the recycled aggregates.

Soils again stored in stockpiles when delivered to the site, they are then run through a screen to remove stones and larger items such as bricks and tiles, these in turn are run through the crusher and the stones stored in stockpiles. The screened soil again is then stored in distinct stockpiles.

The site employs a washing plant to wash the crushed and screened aggregates to produce a superior recycled product with all smaller fine particles removed.

The aim is to produce recycled aggregates and soils to specific standards whilst ensuring they are traceable and do not mix together in a factory production process.

Road sweepings will de-water via gravity and the resulting solids will be washed within the wash plant to recover the sand, grit and stones within them.

7.0 Wastes received and stored

The only wastes to be received under the permit will be soils, brick, tiles, stones and wood. The volume of waste to be received are -

- The maximum quantity of waste to be received within 1 week is 2,000 tonnes
- The maximum quantity of waste to be received within 1 year is 104,000 tonnes
- The maximum quantity of waste to be stored on the site at any time is 40,000 tonnes

8.0 Drainage

The aggregate and soil storage and recycling will take place on the existing permitted area and will be on hard standing.

The wash plant is placed on a sealed concrete pad with all water being recycled in the washing process.

Road sweepings will be stored on a sealed concrete pad, draining to a sealed sump.

9.0 Emissions

There will be no point source emission from the site.

10.0 Fire

There will be no flammable wastes accepted at the site.