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This Report has been cleared for submission to the Board by acting Programme Manager J. Derham

Signed: Joe Reilly Date: 12/9/08

**LICENSING & RESOURCE USE**

**INSPECTORS REPORT ON A LICENCE APPLICATION**

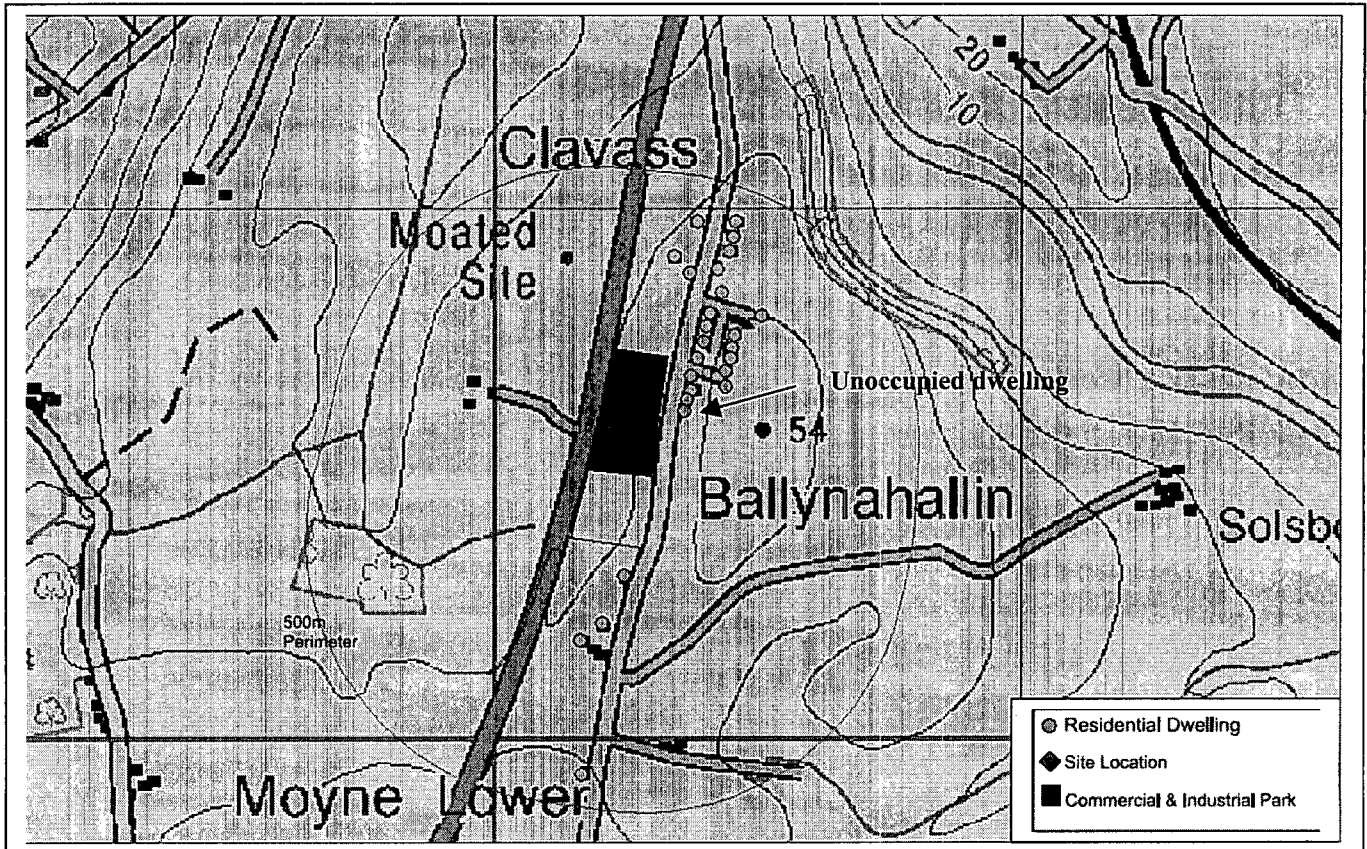
TO:	DIRECTORS	
FROM:	Yvonne Furlong	Licensing Programme
DATE:	11 September 2008	
RE:	Application for a waste Licence from Greenstar Limited, Burton Court, Burton Hall Road, Sandyford, Dublin 18, Licence Register W0241-01	

Type of facility:	Non-Hazardous Materials Recovery Facility
Class(es) of Activity (P = principal activity):	3 <sup>rd</sup> Schedule: 11, 12, 13 4 <sup>th</sup> Schedule: 2 (P), 3, 4, 13
Quantity of waste managed per annum:	90,000 tonnes
Classes of Waste:	Dry recyclable non-hazardous household, commercial & industrial wastes.
Location of facility:	Clavass, Enniscorthy, County Wexford
Licence application received:	22 November 2007
Third Party submissions:	15 <sup>th</sup> January 2008
EIS Required:	Yes
Article 14 Notices sent:	11/01/2008, 8/02/2008
Article 14 Reply received	31/01/2008, 3/03/2008, 15/07/2008, 23/07/08
Article 14 Compliance date:	23/07/2008
Site Inspection:	8 February 2008 (site notice checked 2/01/08)

**1. Facility**

The proposed Greenstar materials recovery and transfer facility is to be located approximately 4 km north of Enniscorthy. The site, formerly used for agricultural purposes, is a green field site, awaiting planning permission from Wexford Co. Co. An EIS was required for the planning application; this EIS was submitted as part of this application. The site is in an area zoned for industrial use and covers an area of approximately 1.5 hectares. The site is bounded to the west by the N11, to the east by the Old Dublin road and Greenstar also own the lot to the south of the site (this is not part of the development). There are a total of 25

private residences within 500m of the site, the nearest being approximately 50m to the northeast.



The applicant expects to accept 60,000 tonnes of waste in it's first year and this will increase over the following seven years to 90,000 tonnes per annum. The applicant has requested the following waste activities:

- 3<sup>rd</sup> Schedule; 11, 12, 13
- 4<sup>th</sup> Schedule; 2 (principal activity), 3, 4, 13

The site development involves the construction of a main building (3,150m<sup>2</sup>), offices, a double weighbridge, a vehicle wash, plant refueling area, ESB substation, open yards, an odour treatment plant, site security fence and landscaping measures. Greenstar have two existing facilities in Wexford (W0022-01 & W0111-01), which currently process approx. 60,000 tonnes between them. Based on a review of market conditions in the South East Region, Greenstar considers an annual waste processing capacity of 90,000 tonnes is required. The two existing sites cannot handle this increase, therefore Greenstar has decided to close these sites and replace them with a new facility in Enniscorthy.

It is planned that the normal waste acceptance hours will be 06:00 to 20:00 Monday to Saturday and that the hours of operation will be 06:00 to 22:00 Monday to Saturday.

When the site is operating at maximum capacity there will be 15 full time staff and in addition up to 40 drivers.

## 2. Operational Description

The facility will handle source separated and mixed non-hazardous solid wastes. The waste types to be accepted will include household, commercial & industrial (C&I) and construction

and demolition (C&D) waste. Operations will include on-site sorting, compacting, baling and transfer off-site to recycling and/or treatment facilities and residual landfill.

When the waste arrives at the facility it will be emptied inside the main building. The main building will be divided into two areas, the first, the mixed waste area will accept wastes that contain food stuff, and the second, the dry waste area will only take dry recyclable materials. The mixed waste will be sorted to remove all of the recyclable materials, which will be compacted or baled before being sent off-site for recycling. The compostable material will be removed off-site for composting. The residual waste which is not suitable for recycling will be sent off-site to further treatment and landfill.

The mixed waste area of the main building, which will handle putrescible waste, will be sealed off from the rest of the building and will have an air collection and odour treatment system. There are no surface water drains on the site, however there is a foul sewer, owned by Wexford Co. Co., which serves the commercial park running through the centre of the site.

### **3. Use of Resources**

The on-site operations will involve the consumption of water, oil and electricity. It is estimated that the following quantities will be used on an annual basis: Diesel oil 100,000 litres, hydraulic oil 100 litres, disinfectant 80 litres, engine oil 200 litres, water 3500m<sup>3</sup> and electricity 100,000kW. Condition 7 includes conditions dealing with water, energy and raw material use, reduction and efficiency on site.

With regard to reducing the Climate impact of the facility under IPPC, the RD requires an energy efficiency audit and an assessment of resource use efficiency. The EMP objectives and targets include use of cleaner production (including production related carbon footprint).

### **4. Emissions**

#### **4.1 Air**

There will be no point source emissions to the atmosphere from the proposed facility.

Generally the main atmospheric emissions from this type of facility would be dust and odour. It is not anticipated that dust will be a significant issue at this facility. All waste processing will be carried out inside the main building and there will be no open storage of waste. All waste entering and leaving the building will be in sealed and covered containers. Dust deposition monitoring was carried out at four locations around the site between August and September 2007. The highest deposition level found was 54 mg/m<sup>2</sup>.day, this was found to the west of the site. The RD specifies a dust deposition limit of 350mg/m<sup>2</sup>.day and dust deposition monitoring to be carried out quarterly.

The applicant carried out an odour impact assessment and predictive odour modeling to determine the potential odour impact on the surrounding population from the proposed development. It was established that residents would note no significant odour impact if the appropriate odour management, minimisation and mitigation measures are put in place. An odour management system, which will include an appropriately sized air extraction and emissions treatment system that will use activated carbon, will be installed at the facility prior to the commencement of waste activities. The odour management system will include an air extraction system that provides negative air pressure in the areas where odorous wastes are handled.

The RD specifies that inspections for odour shall be carried out daily on site. The RD also specifies that the licensee shall submit a detailed odour management plan to the Agency within three months.

The RD also specifies that there shall be no emissions to air of environmental significance.

#### **4.2 Emissions to Sewer**

The floor of the mixed waste area will be washed down as required, the wash water will be collected in a gully in the floor and will be piped to the Wexford County Council foul sewer system. It is estimated that there will be 83.2m<sup>3</sup>/year of washwater generated on site.

Wastewater from the vehicle wheel wash will also be directed to the County Council foul sewer system. It is estimated that the vehicle wash will generate approx. 120m<sup>3</sup> of wash water per annum. Storm water runoff from the refueling area will also be directed to the foul sewer via a Class 2 Full retention separator.

Notices under Section 52 of the Waste Management Acts 1996 to 2005 were sent to Wexford County Council. They had no objection to the disposal of effluent in accordance with the proposed Emission Limit Values set out by the applicant (Schedule B.3 Emissions to Sewer). However it was stated that waste must not be deleterious to the public sewerage infrastructure (Condition 5.9).

Sanitary and sink washwater from the site offices will be discharged to the facility's foul drainage system. This foul sewer drainage system will connect to an existing foul pumping station, which connects to the municipal foul sewer serving the area.

#### **4.3 Emissions to Surface Waters**

There are no proposed discharges of process emissions to surface waters.

#### **4.4 Storm Water Runoff**

In the absence of a storm water sewer in the vicinity of the site, surface water from the paved areas, open yards (with the exception of the refueling area) will discharge to ground via an on-site soakaway. The soakaway will be located in the south west of the site. The storm water runoff will pass through an oil separator and silt trap before discharge to the soakaway (Condition 3.8).

Condition 3.27 specifies that the percolation area for the soak pit shall be adequately sized to allow for storm water arising on-site and shall satisfy the criteria set out in the Wastewater Treatment Manuals published by the Agency.

Appropriate containment measures (e.g. bunding) are required in the RD to prevent contamination of surface water due to leaks, spillages, etc. The RD specifies that three-yearly testing of pipes, bunding structures and tanks shall be undertaken.

#### **4.5 Emissions to ground/groundwater:**

As there are no storm water sewers in the vicinity of the site, Greenstar have proposed to discharge stormwater from the facility to ground via an on-site soakaway. In the application Greenstar Ltd proposed to install two groundwater-monitoring wells at the site, one upgradient and one downgradient of the operational area. Schedule C.6 outlines the groundwater monitoring to be carried out at the facility.

All waste handling and storage will be indoors and on hardstanding areas.

#### **4.6 Wastes Generated:**

All waste arising from the operation of the facility will be recovered where possible. All other wastes will be disposed of off-site.

#### **4.7 Noise:**

The applicant carried out a noise survey on the 28<sup>th</sup> August 2007 to quantify the existing noise environment. The survey was conducted at three on-site locations and two Noise Sensitive Locations (NSLs), situated adjacent to the nearest private dwellings along the Old Dublin Road (approx. 50m from the site). The survey found that the dominant source of noise in the vicinity is from traffic on the N11.

Information from the noise survey was used to predict future noise levels both within the site boundary and at the nearest NSLs. It is predicted that the development will not impact on NSL1. There is the potential that noise levels at NSL2 could exceed the recommended night time limits, due to doors at the southern side of the building. It is proposed that the applicant install a 4m high noise barrier along the southern boundary of the site to prevent a breach of the nighttime noise limits set in the RD (Condition 3.26).

#### **4.8 Nuisance:**

The applicant has proposed measures to control potential nuisances that may arise as a result of the on-site waste activities. These include good housekeeping, accepting and handling the waste indoors and keeping the area of the building processing putrescible waste under negative air pressure. Condition 5.6 of the RD specifies that measures be put in place to ensure vermin, birds, flies, mud, dust and litter do not impair the environment at the facility or beyond the facility boundary.

### **5. Cultural Heritage, Habitats & Protected Species**

The proposed development is not located within any designated area. The nearest designated site is the Slaney Valley, a special area of conservation, approximately 1km to the east of the site. Due to the nature of the activities carried on at this site, it is unlikely to cause any risk to this protected area.

### **6. Waste Management, Air Quality and Water Quality Management Plans**

The proposed facility is in line with the 'Joint Waste Management Plan for the South East Region 2006 – 2011', 'Wexford county Council Development Plan 2007 – 2011' and the 'Enniscorthy & Environs Development Plan 2001'.

## **7. Environmental Impact Statement**

I have examined and assessed the EIS and having regard to the statutory responsibilities of the EPA, I am satisfied that it complies with Article 94 and Schedule 6 of the Planning and Development Regulations 2001 (SI 600 of 2001) and EPA Licensing Regulations (SI 85 of 1994, as amended).

## **8. Best Available Techniques (BAT)**

I have examined and assessed the application documentation and I am satisfied that the site, technologies and techniques specified in the application and as confirmed, modified or specified in the attached Recommended Decision comply with the requirements and principles of BAT. I consider the technologies and techniques as described in the application, in this report, and in the RD, to be the most effective in achieving a high general level of protection of the environment having regard - as may be relevant - to the way the facility is located, designed, built, managed, maintained, operated and decommissioned.

## **9. Compliance with Directives/Regulations**

The facility does not fall under the scope of the landfill or IPPC directives. The facility will have no direct emissions to groundwater or to surface waters.

## **10. Fit & Proper Person Assessment**

While acknowledging previous prosecutions taken by the EPA against Greenstar Ltd, the Agency under the provisions set out in Section 40(8) of the Waste Management Acts 1996 to 2008 deems the applicant to be Fit and Proper Persons for the purposes of this licence application. In this case it is considered relevant to set aside previous convictions for the assessment of Fit and Proper Persons.

## **11. Proposed Decision**

I am satisfied that the conditions as set out in the RD will adequately address all emissions from the facility and will ensure that the carrying on of the activities in accordance with the conditions will not cause environmental pollution.

## **12. Submissions**

One Submission was received on 15/01/2008 from Ms. Susan Codd, Senior Environmental Health Officer, Health Service Executive. Ms. Codd states that the HSE has no objection in relation to this application.

## **13. Charges**

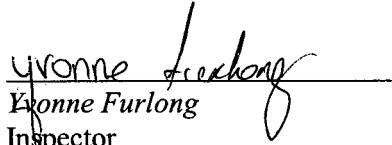
The RD requires that the applicant shall pay an annual contribution of €11,033.

## **14. Recommendation**

In preparing this report and the Recommended Determination I have consulted with Agency technical and sectoral advisor Dr Jonathan Derham.

I have considered all the documentation submitted in relation to this application and recommend that the Agency grant a licence subject to the conditions set out in the attached PD and for the reasons as drafted.

Signed

  
Yvonne Furlong

Inspector

Office of Climate, Licensing and Resource Use

***Procedural Note***

*In the event that no objections are received to the Proposed Decision on the application, a licence will be granted in accordance with Section 43(1) of the Waste Management Acts 1996-2007.*