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 Submission to the Board by the
 Programme Manger Frank Clinton
 Signed: Shelton Date: 1/04/09

**OFFICE OF CLIMATE,
 LICENSING &
 RESOURCE USE**

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INSPECTORS REPORT ON A LICENCE APPLICATION	
To:	DIRECTORS
From:	Ewa Babiarczyk LICENSING UNIT
Date:	1 st April 2009
RE:	Application for a Waste Licence from Advanced Environmental Solutions (Ireland) Ltd., for a facility at Solsborough, Springfort Cross, Nenagh, County (North) Tipperary. Licence Register Number: W0240-01.

APR 2009
 Initials: Doc WR

Application Details	
Type of facility:	Waste Transfer Station
Class(es) of Activity (P = principal activity):	3 rd Schedule: 11, 12, 13 (P) 4 th Schedule: 2, 3, 4, 12, 13
Quantity of waste managed per annum:	Currently c. 19,000 tonnes per annum. Applied for 24,750 tonnes per annum.
Classes of Waste:	Household, commercial, construction & demolition waste. Non-hazardous.
Location of facility:	Solsborough, Springfort Cross, Nenagh, County (North) Tipperary.
Licence application received:	06 th November 2007.
Third Party submissions:	2.
EIS Required:	No.
Article 14 Notices sent:	11 th March 2008, 16 th October 2008.
Article 14 compliance date:	17 th December 2008.
Site Inspection:	28 th January 2008.

1. Facility

The applicant, Advanced Environmental Solutions (Ireland) Limited, is a fully owned subsidiary of Bord na Mona Plc., and operates a waste transfer station at Solsborough, Springfort Cross, Nenagh, Co. (North) Tipperary. The area of the site is leased by the applicant and is located in an urban fringe of Nenagh Town. The nearest dwelling is situated approximately 40 m across the road from the South Western corner of the site. There are two

commercial buildings just across the road from the Southern and Eastern site boundaries. From the North and the West the facility adjoins a farm. The main activity is the temporary storage of waste prior to transfer to another facility for recycling, recovery, processing or disposal. The main waste types being handled are commercial, household and construction & demolition waste. No hazardous waste is to be accepted at the transfer station.

The facility has been operating under a Waste Permit (Register Ref. No. WPTN 01) issued by North Tipperary County Council. The applicant proposes to accept 24,750 tonnes of waste per annum and has requested the following waste activities:

3rd Schedule *Waste Disposal Activities*: 11, 12, and 13 with Class 13 as the principal activity

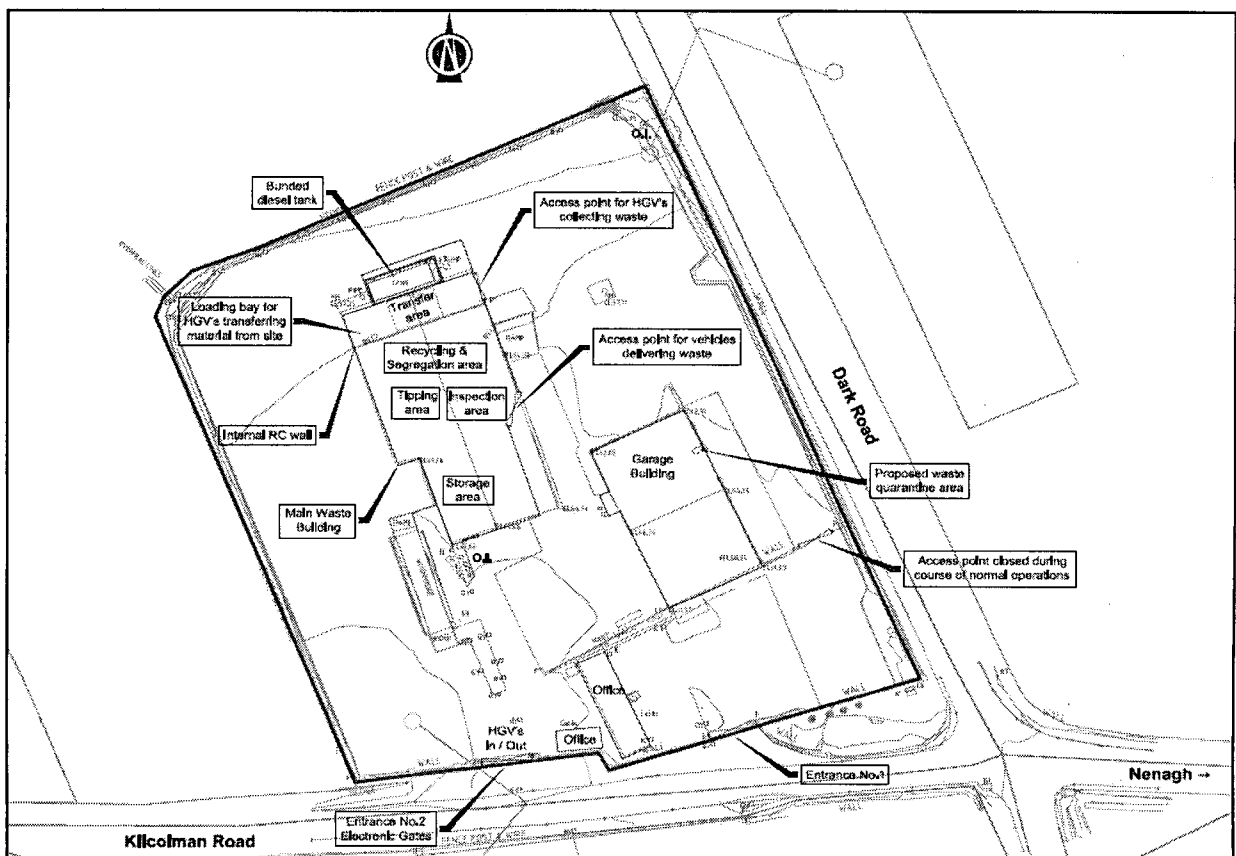
4th Schedule *Waste Recovery Activities*: 2, 3, 4, 12, and 13

The proposed hours of operation are 7.00 am to 8.00 pm Monday to Saturday. The facility will only accept waste from 7.30 am to 7.30 pm on each day of operation.

It should be noted that even though this facility accepts less than 50,000 tonnes of waste per annum, more than 15% of this waste is subsequently transported off-site for disposal. Therefore, the facility is licensable under Section 39 of Waste Management Acts 1996 to 2008.

2. Operational Description

Condition 1.1 and Schedule A of the RD specify the waste types to be accepted at the facility. Condition 8 of the RD gives specifications on waste handling. Waste is delivered to the facility mainly by AES refuse collection vehicles used for kerbside collections, and skip collection vehicles.



All waste entering the facility will be directed via a weighbridge to the main waste building where an excavator with a grab is used to handle waste (see Drawing No. DG0008 A02). After tipping waste in the inspection area of this building, some waste is sorted while other material is stored temporarily prior to transfer to another facility for recycling, recovery, processing or disposal. The waste streams accepted at the facility include: mixed commercial waste, mixed commercial packaging waste, mixed household waste, household dry recyclables, construction & demolition (C&D) waste and timber & metal. The C&D waste undergoes sorting within the facility into fractions like timber, metal, concrete, etc. All waste streams are transported off site either for recovery, recycling, further processing or disposal. Condition 3.20.1 requires all putrescible waste accepted at the facility to be removed within 48 hours of its arrival on-site, with the exception of Bank Holidays when this type of waste shall be removed within 72 hours. Any hazardous waste encountered will be stored in the waste quarantine area. Condition 3.17.4 requires the licensee to provide a drawing showing the actual location of the waste quarantine area and details of arrangements for removal of leachate from this area. Previously, the applicant operated a civic amenity at the site. Its operation was ceased, however, the applicant may seek to re-open this facility in the future. Condition 3.23.1 states that the licensee shall submit proposals for opening a civic waste amenity at the facility to the Agency for its agreement at least two months in advance of the intended date of commencement of the activity.

3. Use of Resources

The on-site operations involve the consumption of water, fuels, oils, electricity, and floor dressing.

Water is supplied to the site from a private well located on an adjacent farm (see Drawing No. DG0001 A01) and from the mains water supply. It is estimated that the average daily demand for water is 5 m³. Diesel and oil are used for the excavator. The estimated annual usage of diesel is 13.9 tonnes. A cumulative total of yearly usage of hydraulic and engine oil is 0.52 tonnes. The primary electricity demands of the facility are from the office, garage, lighting, automated gate and the weighbridge. The estimated annual electricity consumption is c. 9,000 Units (KWh). Also, there are approximately 600 litres of absorbent floor dressing material used in the garage building to soak up any spillages. A safety data sheet for this dressing states that this product is a naturally occurring substance presenting no known ecological hazards. Condition 7 of the RD includes conditions dealing with water, energy and raw material use, reduction and efficiency on site.

4. Emissions

4.1 Air

There are no point source emissions to atmosphere from this facility. Generally the main atmospheric emissions from this type of facility are dust and odour.

Dust generation is mainly associated with loading and unloading of waste loads and handling of waste. The dust mitigation measures that are being employed by the applicant include:

- restriction of waste activities to within the main waste building;
- cleaning hardstanding areas within the facility with road-sweeping equipment;
- water-spraying of hardstanding areas in periods of dry weather;
- Transport waste to and from the facility in covered vehicles.

The RD has specified a dust deposition limit of 350 mg/m² per day. The monitoring is to be carried out quarterly.

Odour generation is associated with temporary storage of putrescible/biodegradable waste. This material is mainly contained within the mixed domestic waste and mixed commercial waste collected. All waste is handled within the main waste building and putrescible waste is removed off-site within 48 hours of arrival, with the exception of Bank Holidays when this waste shall be removed within 72 hours.

Condition 3.24.1 of the RD requires the licensee to install and provide adequate measures for the control of dust and odour emissions from the facility. It also specifies the minimum requirements for an odour management system. These include the installation of dust curtains or equivalent at the entry/exit from the waste transfer building and an air extraction system that provides negative air pressure in the areas where odorous waste is handled.

4.2 Emissions to Sewer

At the moment there are no process emissions to sewer, however the applicant has secured the agreement of Nenagh Town Council to facilitate a connection to the local authority sewer. Discharging to the sewer is planned to commence in May 2009. Condition 5.8 of the RD requires the licensee to inform the Agency of a start date of discharging to the sewer and provide a drawing showing the actual connection to the sewer together with the drainage system. A Notice under Section 52 of the Waste Management Act 1996 to 2008 was sent to the Nenagh Town Council, however, no response has been received to date. The RD emission limit values are set out in *Schedule B.3 Emissions to Sewer*. Condition 3.8.2 requires silt traps and oil separators to be installed and maintained at the facility and for soiled water to pass through them before discharge to the sewer. The condition also states the type of oil separator required.

4.3 Emissions to Surface Waters

There are no process emissions to surface water.

Currently, the run off from the waste tipped on the ground slab within the main waste building flows to a gully which discharges to an underground storage tank. The sanitary effluent from toilets located in the garage building and the site offices is directed to a separate tank located in the middle of the yard to the left of the main waste building (see Drawing No. DG0005 A01 and DG0005 A02). These tanks are emptied periodically and their contents are transported off-site for treatment. The applicant plans to decommission these tanks and alter the on-site drainage so it connects to the sewer.

4.4 Storm Water Runoff

The storm water system on site consists of a network of gullies, grills, pipes and two oil interceptors (see Drawing No. DG0005 A02). The surface water collected from the hard standing area to the West of the main waste building flows to the oil interceptor adjacent to the weighbridge before flowing to the second oil interceptor that is located in the North East corner of the site. The water then discharges through a 170 mm pipe to an open drain outside the site boundary. The surface water collected from the hard standing area to the East of the main waste building flows directly to the second oil interceptor in advance of discharge. The application states that a normal daily volume of storm water to be discharged from the outlet of the oil interceptor in the North East corner of the site is 14.73 m³ and a maximum per day

is 353.56 m³. Condition 3.8.1 of the RD specifies the type of oil separator that shall be used for the storm water and additionally requires all storm water runoff to pass through silt traps.

4.5 Emissions to ground/groundwater:

There are no direct emissions to ground or groundwater and Condition 5.6 of the RD prohibits any such discharges. There are no wells on site. The water is supplied to the site from a private well located on the adjacent farm (see Drawing No. DG0001 A01) and from the mains water supply.

4.6 Wastes Generated:

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

4.7 Noise:

In summer 2007, the applicant conducted a noise survey at four site boundary locations (N1, N2, N3 & N4) and two noise sensitive locations (NSL1 & NSL2) located adjacent to the site road (see Drawing No. DG0009 A01). The standard limit of 55 dB(A)_{L_{Aeq}} for day-time was exceeded at N1 and N3 where the noise levels reached 59 and 65 dB(A) respectively and at NSL-1 located almost directly opposite the site entry/exit for Heavy Goods Vehicles where the noise level reached 60 dB(A). The elevated readings were attributed to on-site activities, traffic on the adjacent roads and noise from activities outside the facility. The RD specifies noise limits at the noise sensitive locations. Condition 6.13 requires an annual noise survey and implementation of the noise attenuation measures to ensure compliance with the noise limits specified in the RD.

4.8 Nuisance:

The applicant has proposed a number of measures to control potential nuisances that may arise as a result of the on-site waste activities. They include good housekeeping, handling waste indoors and transporting waste to/from the facility in covered vehicles. Condition 5.4 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 site or beyond the facility boundary.

5. Cultural Heritage, Habitats & Protected Species

There are no recorded features of architectural, archaeological or historical importance within the site boundary. The site is not located on or adjacent to any designated area.

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

The facility is in line with the '*Waste Management Plan for the Midlands Region 2005-2010*'. The plan was adopted by North Tipperary County Council in early 2006. According to the information relating to Waste Transfer Stations which is given in Table 19.2 of the Plan: *Development of Public and Private Infrastructure During the Plan Period* there will be need for additional capacity to accommodate increased quantities of source separated waste.

7. Environmental Impact Statement

No EIS was required for this application.

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 surface waters.

10. Fit & Proper Person Assessment

While acknowledging previous prosecutions taken by North Tipperary County Council against the Advanced Environmental Solutions (Ireland) Limited in respect of this facility, 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 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

There are two submissions in relation to this application.

- The first submission was received on the 30th November 2007 from Ms. Mary Boothman, Development Applications Unit of the Department of the Environment, Heritage and Local Government (DoEHLG). In their submission, the DoEHLG recommends that the site water drainage system should incorporate grit as well as oils interceptors.

Conditions 3.8.1 and 3.8.2 of the RD require the licensee to install and maintain silt traps and oil separators at the facility to ensure that all storm and soiled water pass through them in advance of discharge from the site.

- The second submission was received on the 02nd March 2009 from Ms. Paula O'Dwyer, Environmental Scientist, North Tipperary County Council. This submission refers to a complaint from an anonymous person received by the council on the 24th February 2009. The complainant noticed a grey in colour effluent being discharged from the site to the open drain adjacent to the North East corner of the site. In the submission, Ms. O'Dwyer stated that she had visited the site and observed that the water in the drain was stagnant and grey. The complaint is now being dealt with by the North Tipperary County Council.

Condition 5.5 of the RD states that unless otherwise agreed by the Agency, no trade effluent, leachate and/or contaminated storm water shall be discharged to surface water drains and surface water courses. Condition 6.12 requires a visual examination of the storm water discharges to be carried out daily and a log of such inspections to be maintained. More parameters to be monitored are listed in *Schedule C.2.3 Monitoring of Storm Water Emissions*. Condition 3.8.1 of the RD specifies the type of oil separator that shall be used for the storm water and additionally requires all storm water runoff to pass through silt traps. Additionally, Condition 11.12 requires the licensee to keep a record of each consignment of contaminated storm water removed from the facility.

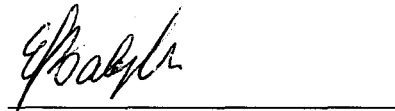
13. Charges

The RD requires that the applicant shall pay an annual contribution of €11,360.

14. Recommendation

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



Ewa Babiarczyk
Inspector
Office of Climate, Licensing & 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 1996-2008.

