

INSPECTORS REPORT
WASTE LICENCE REGISTER NUMBER 116-1

(1) Summary:

Waterford Utility Services (Waste Disposal) Ltd. operate a non-hazardous waste transfer station in Butlerstown, Co. Waterford. The quantities per annum are currently 12,240 tonnes and the maximum permitted in the draft Proposed Decision is 15,000 tonnes per annum. The draft Proposed Decision includes provision for a civic waste facility.

Name of Applicant	Waterford Utility Services (Waste Disposal) Limited
Facility Name(s)	Waterford Utility Services (Waste Disposal) Limited
Facility Address	Six Cross Roads, Carriganard, Butlerstown, Co. Waterford
Description of Principal Activity	Blending or mixture prior to submission to any activity referred to in the Third Schedule.
Quantity of waste (tpa)	15,000.
Environmental Impact Statement (EIS) Required	No
Number of Submissions Received	None
INSPECTOR'S RECOMMENDATION	The proposed decision as recommended by the inspector as submitted to the Board be approved.

Notices	Issue Date(s)	Reminder(s)	Response Date(s)
Article 14 (2) (b) (i)	N/A		
Article 14 (2) (b) (ii)	16 November 1999	N/A	22/12/99
Article 14 (2) (a)	23/08/99		
Article 16	Not required	N/A	N/A

Applicant Address	Six Cross Roads, Carriganard, Butlerstown, Waterford.
Planning Permission Status and Date Granted (if appropriate)	Granted 10th May 1985, 4 th Jan 1990 and 4 th Feb 1991.
Planning Authority	Waterford County Borough County Council
Is the facility an existing facility	Yes
Date Application received	30 th September 1999
Confidential Information Submitted	No
Location of Planning Documents in Application	Attachment B.3
Location of EIS in Application	Not applicable

FACILITY VISITS:

DATE	PURPOSE	PERSONNEL	OBSERVATIONS
27/10/99	To inspect site notice and site inspection	S. Kennelly	Site notice in compliance with Regulations.
21/02/00	Site inspection	S. Kennelly S. McMahon	

(2) Class/Classes of Activity

The class(es) of activities for which the applicant has applied are marked below. The principal activity is indicated by (P).

Waste Management Act, 1996			
THIRD SCHEDULE Waste Disposal Activities		FOURTH SCHEDULE Waste Recovery Activities	
1. Deposit on, in or under land (including landfill).		1. Solvent reclamation or regeneration.	
2. Land treatment, including biodegradation of liquid or sludge discards in soils.		2. Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).	X
3. Deep injection of the soil, including injection of pumpable discards into wells, salt domes or naturally occurring repositories.		3. Recycling or reclamation of metals and metal compounds.	X
4. Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.		4. Recycling or reclamation of other inorganic materials.	X
5. Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.		5. Regeneration of acids or bases.	
6. Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1. to 10. of this Schedule.		6. Recovery of components used for pollution abatement.	
7. Physico-chemical treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1. to 10. of this Schedule (including evaporation, drying and calcination).		7. Recovery of components from catalysts.	
8. Incineration on land or at sea.		8. Oil re-refining or other re-uses of oil.	
9. Permanent storage, including emplacement of containers in a mine.		9. Use of any waste principally as a fuel or other means to generate energy.	
10. Release of waste into a water body (including a seabed insertion).		10. The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system.	
11. Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.	P	11. Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.	
12. Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.		12. Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.	
13. Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.	X	13. Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.	X

Class Description:

The applicant describes the classes as follows:

Third Schedule:*Class 11, principal activity:*

Commercial, domestic and industrial wastes are bulked up at the transfer station prior to transfer to landfills. Construction and demolition waste is sorted. A portion of the waste is recycled but most is transferred to landfill.

Class 13:

All wastes are temporarily stored at the site prior to bulking and transfer.

Fourth Schedule:*Class 2:*

Cardboard and wood is removed by hand and recycled when there is market demand.

Class 3:

Steel and other metals are removed by hand from the construction and demolition waste at the site and recycled by scrap merchants.

Class 4:

Builders rubble is reclaimed and used as an inert fill for land restoration.

Class 13:

All wastes are temporarily stored at the site prior to recycling or reclamation activities. As the waste is not produced at the site, storage at the site falls within this category.

(3) Facility Location

Appendix I contains a Location Map showing Waterford Utility Services (Waste Disposal Ltd.).

Waterford Utility Services Ltd. is situated approximately 1km south-west of Waterford city. The N25 national primary route runs in an east-west direction approximately 1.5km to the north of the site.

(4) Waste Types and Quantities

Total quantities and types of wastes accepted or to be accepted at the facility are shown below. See Table B.8.1 of the application.

Table 4.1

YEAR	NON-HAZARDOUS WASTE (tpa)	HAZARDOUS WASTE (tpa)	TOTAL ANNUAL QUANTITY OF WASTE (tpa)
1999	12,240	0	12,240

The facility accepts mostly municipal waste and construction and demolition waste. It also accepts smaller amounts of industrial non-hazardous solids. Schedule H of the proposed decision stipulates the waste types and quantities to be accepted at the facility.

(5) Facility Operation/Management

- Waste Handling**

Wastes delivered to the site are unloaded in the Waste Transfer Shed and sorted for recycling and reloading and are then sent to different locations depending on the quality of the material. Materials not suitable for recycling are sent directly to landfill (currently Kilbarry landfill, located approximately 1.5km away from the facility).

Waste inspection and quarantine areas are to be delineated under Condition 4.7 of the draft Proposed Decision.

- Waste Acceptance Procedures**

Vehicles enter the site via the main entrance and are directed to the Waste Transfer Shed by a member of staff. During unloading the contents of all loads are inspected. Any loads containing unacceptable wastes are rejected (see Condition 5.7). All material entering the facility is deposited in the shed and is sorted as follows: non-recyclable waste is sent for transfer to landfill; cardboard, glass, metal and wood are sent for recycling; construction and demolition waste is sorted and re-used and plastics are sorted and recycled.

- Nuisance Control**

Dust

Dust monitoring was carried out at the facility from 11/02/99 to 01/04/99. Results show that dust deposition during the sampling period ranged from 144 mg/m²/day to 178mg/m²/day. The replacement of all areas currently surfaced with of compressed gravel with concrete should decrease the rate of dust deposition (see Condition 4.4). Dampening down of the concrete surface will be undertaken as required, see Condition 6.9.

Fire

The site is connected to a mains water supply. A 22,500 litre holding tank is located adjacent to the northern boundary of the site. Condition 10.5 requires the applicant to submit a report on fire water retention facilities within six months of the date of grant of the licence.

Litter

Litter problems are reduced by the fact that all wastes are handled in the Waste Transfer Building which is an enclosed building. Condition 6.3 stipulates that daily litter patrols are carried out at the site as specified in the application.

Traffic

The facility is located on the Carriganard Road which is a secondary road. It is located approximately 1.5km from the currently operating local authority landfill site at Kilbarry. There is ample space for vehicles to enter and leave the site and there is good visibility on approach and emergence from the site.

- **Hours of Operation**

The proposed decision will limit the hours of operation of the facility to 8:00am to 6:00pm Monday to Friday and 8am to 1:00pm on Saturday.

(6) Facility Design

Security: Site security at the facility includes pallisade fencing at the northern boundary and chain link fencing at the southern boundary. The eastern and western boundaries are denoted by ditches. Condition 4.3 requires fencing to be erected at all boundaries of the facility.

Buildings and Infrastructure: There are five plant sheds/ buildings on the site, as follows:

The Waste Transfer Centre, the Garage/ Maintenance Shed, the Plastic Recycling Shed and the Facility Accommodation (two buildings). There is no weighbridge on the site at present but a weighbridge is to be installed under Condition 4.8. Vehicle wash

facilities at present consist of a powerwash where vehicles are washed on a weekly basis.

Fuel Storage: Diesel, engine oil and hydraulic oil are stored in tanks at the facility. None of these tanks is bunded. Under Condition 4.10 all tanks are to be bunded within three months of the date of grant of the licence.

(7) Decommissioning and Aftercare

There are no plans for decommissioning and aftercare at this facility at present. See Condition 8.

(8) Emissions to Air

Air emissions from the site arise as odour and dust. As the waste is handled inside the Water Transfer Area, the emissions to air are reduced. With the upgrading of the hardstanding areas under Condition 4.4, it is envisaged that dust emissions to air will not be a concern at this facility.

(9) Emissions to Groundwater

There are no direct emissions to groundwater. The application states that domestic dwellings within 500m of the site are connected to the mains.

(10) Noise Emissions

Noise monitoring was carried out on 8th March 1999 at three points (N1, N2 and N3) within the site boundary and at two noise sensitive locations (N5 and N6) located to the south and east of the site.

Boundary ambient monitoring showed the main noise sources as traffic from the road and traffic entering and leaving the facility. L(A)₉₀ at N2 (located furthest away from the road) was 47.6 dB(A) whereas L(A)₉₀ at N3 and N4 were 54.4 L(A)₉₀ and 57.7 L(A)₉₀ respectively.

Figure C.7.1 of the application shows eleven residences located within 0.5km of the site. Noise monitoring was carried out at the nearest of these residences at which a faint continuous “hum” from the facility was audible. This noise was attributed to the

plastic granulating machines on site which are due to be moved off-site to another building in the same area in the near future. This building is to be used for solely recovery activities. The background level was raised by this noise to 46.5 dB(A). Noise monitoring is to be undertaken after the removal of this machine to establish the background levels in its absence (see Condition 7.6).

(11) Emissions to Sewer

The site is not currently connected to sewer. However, it has been indicated in the waste licence application that on installation of a foul sewer during mid-2000 by Waterford County Borough Council, to within 1km of the site, Waterford Utility Services will connect to the foul sewer at their own expense. Discharge to sewer emission limit values have been set in Schedule F.3.

A holding tank is to be installed at the facility within one month of the date of grant of the licence. All foul water is to drain to this tank for tankering off-site until connection to sewer is attained.

(12) Emissions to Surface Waters

St. John's River flows approximately 1.5km to the east of the site and discharges into the River Suir close to Reginald's Tower, Waterford. Two small streams run parallel to the entrance of the site on either side of the road, they flow in a southerly direction before turning east to join the St. John's River. The stream on the same side of the road as Waterford Utility Services is culverted and joins the main body of water at the cross roads south of the site.

The total volume of surface water discharging from the site is estimated at approximately 8.4m³/day. Water quality analysis was carried out at three surface water monitoring points (one upstream and two downstream of the facility) indicating very good quality water.

Currently, rainwater runoff from the site drains to the percolation area in front of the recycling building, the septic tank percolation area or to an interceptor located at the northwest of the site.

The powerwash foul water is directed to an interceptor tank located at the northwest corner of the site. The interceptor is desludged and the sludge taken to Kilbarry landfill. The interceptor is approximately 10-15 years old and it is unclear as to what standard it was constructed. The interceptor discharges to a percolation area.

It is proposed by the applicant that a storm drainage system be incorporated into the works concerned with the concreting of the site. This system is to be designed such that all storm drains will be directed to a new Class 1 interceptor and a settlement tank for removal of silts prior to discharge to sewer.

The draft Proposed Decision stipulates that until connection to sewer is attained, all foul water is to be directed to a holding tank, the capacity and location of which is to be agreed in advance with the Agency. The contents of the holding tank are to be tankered off-site to a waste water treatment plant subject to the agreement of the waste water treatment plant operator no later than when the contents of the tank are no greater than 90% of the holding capacity of the tank .

The draft Proposed Decision also stipulates that prior to the concreting of the hardstanding areas, the foul water, hardstanding areas and surface water runoff (rainwater) systems are to be separated.

(13) Other Significant Environmental Impacts of the Development

None.

(14) Waste Management, Air Quality and Water Quality Plans

South-East Regional Waste Management Strategy Plan.

The recycling and recovery activities proposed by Waterford Utility Services (Waste Disposal) Ltd. are in keeping with the strategy for the county.

Signed _____
Sara Kennelly

Dated: _____

APPENDIX 1

Location Map showing Waterford Utility Services Ltd. (not to scale)