



Environmental Efficiency
Consulting Engineers

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ANNUAL ENVIRONMENTAL REPORT

2010

For

Waterford Joinery Ltd.

IPC Licence P0350-01

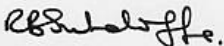
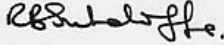
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Client	Waterford Joinery
Address	Ballinamuck, Dungarvan, Co. Waterford.

Issue	Status	Date	Author	Signed for and on behalf of	
				Environmental Efficiency	Client
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Where it is a requirement that this report be issued to a regulatory or other authority, then the client should sign the appropriate place in the above table and, unless specifically agreed in writing to the contrary, forward copies to the appropriate authority (e.g. EPA).

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Table of Contents

1.	Introduction	4
1.1	Company Details	4
2.	Site Description	5
2.1	Previous site histories	5
2.2	Company background	5
2.3	Description of equipment	5
2.4	Manufacturing process	5
2.5	Company Organisation.....	6
3.	Summary Information	7
3.1	Self-Monitoring Data	7
3.1.1	Emissions to Waters/Sewer	7
3.1.2	Emissions to Atmosphere.....	7
3.1.3	Waste Management	7
3.2	Agency Monitoring and Enforcement.....	10
3.3	Energy and Water Consumption	11
3.3.1	Energy Consumption for 2010	11
3.3.2	Water Consumption for 2010.....	11
3.4	Environmental Incidents and Complaints	11
3.4.1	Environmental Incidents	11
3.4.2	Complaints	11
4.	Management of the Activity.....	12
4.1	Environmental Management Programme (EMP) Report.....	12
4.2	Schedule of Environmental Objectives and Targets	13
4.3	Environmental Management Programme (EMP).....	14
5.	Licence-Specific Reports	19
5.1	Boiler efficiency	19
5.2	Bund Integrity Assessment.....	20
6.	PRTR.....	20

1. Introduction

1.1 Company Details

Company	Waterford Joinery Ltd.
Address	Ballinamuck
Town	Dungarvan
County / City	Waterford
Business	Joinery Manufacturer
Employees	12
Contact Name	Sean McGrath
Position	General Manager
Telephone	058 41417
Fax	058 42872

IPC Registration Number	P0350-01
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2. Site Description

2.1 Previous site histories

Prior to the establishment of Waterford Joinery the 3 hectares of land on which they are situated was a green field area, therefore there is no previous environmental impact associated with the site.

2.2 Company background

The company has been in operation since 1965 and employs approximately 12 people. Waterford Joinery produces timber products e.g. doors and frames. The main hours of operation are 08:30 – 16:00 Monday to Friday and overtime occurs occasionally.

2.3 Description of equipment

The list below is a description of the major pieces of equipment on site:

- Saws
- Drying kiln
- Vacuum impregnation facility
- Boilers
- Air compressors

2.4 Manufacturing process

The manufacturing process is as follows:

- Timber which is prepared is delivered to our client's site.
- Timber sawing and planing is carried out.
- Some timber is dried in the kiln.
- Small amounts of timber, which are on order from customers, are treated with a preservative i.e. Protim, via a vacuum impregnation process, as follows:

1. Timber is loaded into the treatment vessel.
2. A vacuum is created in the vessel chamber.
3. The preservative enters the chamber and contact is maintained.
4. The fluid is pumped out.

5. The door is opened to remove the treated product.
6. The treated product remains in the bunded area whilst excess preservative drains off

- Adhesive resin and hardener are mixed together and applied to the doors via rollers. Waterford Joinery has decreased their Fire Door production which has significantly decreased the use of resins and hardeners in 2006.
- Doors enter heated press to cure adhesive.
- Finished product is placed on pallets and distributed to or collected by customers.

2.5 Company Organisation

Managing Director

John McGrath

General Manager

Sean McGrath

Environmental Officer / Safety Officer

Sean McGrath

Maintenance

John Dee

3. Summary Information

3.1 Self-Monitoring Data

3.1.1 Emissions to Waters/Sewer

The IPC Licence requires no monitoring of emissions to waters/sewer.

3.1.2 Emissions to Atmosphere

The IPC Licence requires no monitoring of emissions to the atmosphere.

3.1.3 Waste Management

The tonnages and EWC Codes for the waste materials listed in Schedule 1 (i) Wastes for disposal/recovery: See Table below. Due to the economical downturn, the quantities of process waste have drastically decreased in 2010.

Table 1 Tonnages and EWC Codes for waste arising on-site

Waste	EWC No.	Hazardous (Yes/No)	Annual Quantity	Method of Disposal/Recovery	Location of Disposal/Recovery	Name of Transporter	Name of waste contractor
Paper ^{Note 2}	15 01 01	No	None	Recycled	Recycling facility Shandon	Fennell Haulage and Waste Disposal	Fennell Haulage and Waste Disposal
Cardboard Boxes ^{Note 2}	15 01 01	No		Re-used and recycled	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Plastic Wrapping ^{Note 2}	15 01 02	No	Small	Re-used as outgoing packaging	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Pallets	15 01 03	No		Re-used	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Metal Strapping	15 01 04	No	Small	Re-used	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Hazardous Containers	15 01 10*	Yes	None	Re-used for waste oils or contaminated sawdust	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Office/canteen waste	20 03 01	No	2,960kg	Landfill	Dunmore Landfill, Kilkenny County Council.	O'Meara Waste Disposal t/a Mr Binman	O'Meara Waste Disposal t/a Mr Binman
Waste oil	12 01 06*	Yes	None	Special facility at local landfill	Recycling facility Shandon.	Fennell Haulage and Waste Disposal	Fennell Haulage and Waste Disposal
Oil Filters	15 02 02*	Yes	None	Local garage with special facility	Gerard Fennell Garage	Fennell Haulage and Waste Disposal	Fennell Haulage and Waste Disposal
Sawdust	03 01 02	No	Medium	Re-used by local farmer as animal bedding/spill response kit	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Trimmed door lippings, waste plywood, used sand belts	03 01 03	No	None	Re-used for home heating	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Off-cuts of untreated timber	15 01 03	No	Medium	Landfill	Dunmore Landfill, Kilkenny County Council.	Fennell Haulage and Waste Disposal	Fennell Haulage and Waste Disposal
Waste glue and glue-washings ^{Note 3}	08 04 10	No	Small	Hardener added	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Off-cuts of damaged preserved timber ^{Note 4}	03 01 04*	Yes	None	N/A ¹	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}

Waste	EWC No.	Hazardous (Yes/No)	Annual Quantity	Method of Disposal/Recovery	Location of Disposal/Recovery	Name of Transporter	Name of waste contractor
Contaminated absorbent material (sawdust)	15 02 02*	Yes	None	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Sludge from treatment tank	20 03 04	No	None	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}

Notes:

Note 1: N/A = Not Applicable

Note 2: There was no collection of recyclable waste in 2010.

Note 3: The hardened glue is being stored on-site.

Note 4: This waste is not generated

3.2 Agency Monitoring and Enforcement

An amount of work was carried out on site arising from EPA site visits and requests. Details of this correspondence and work carried out are provided below in Table 2.

Table 2 Details of EPA correspondence and work for 2010

Date	Reference	Content
23-04-10	P0350-01/nc11 eok.docx	<p>Notification of Non-Compliance:</p> <p>Non-Compliances with IPPC License Reg.No. P0350-01</p> <ul style="list-style-type: none"> ○ Bundling: Six drums of kerosene stored in an unbunded arera ○ 2009 AER: Has not been submitted to date (31st March) ○ Bund integrity Tests (license condition 8.3.2): Not completed on time ○ Septic Tank: the license is not maintaining a record for the inspection of the septic tank on site. ○ Training Record: The license does not have a training procedure to identify training needs for staff on site. <p>Observations:</p> <ul style="list-style-type: none"> ○ Waste storage: a large amount of timber waste and some metal waste at the rear of the facility ○ Waste Records: There was no waste collection permit for Fennell Haulage & Waste disposal WCP No. WCP/KK/068/02 ○ Drainage map on site: The license was unsure of the draining plan on site.
02-06-10	P0350-01/nr02eok.docx	Non response Notification

3.3 Energy and Water Consumption

3.3.1 Energy Consumption for 2010

Table 3 Summary for energy consumption 2010

Source	Consumption 2008	Consumption 2009	Consumption 2010	Units
Electricity	415,051	139,770	110,660	KWh
Tractor diesel	24,127	28,012	0	Litres
Auto diesel	20,797	23,294	20,455	Litres
Kerosene	6,579	5,714	3,779	Litres
Grade	0	0	0	Litres
Lubricating oil (Castrol)	0	209	0	Litres
Gas oil	0	24,708	25,342	Litres

3.3.2 Water Consumption for 2010

Table 4 Water Consumption Summary

Water	
m ³	Unknown
€	None

3.4 Environmental Incidents and Complaints

3.4.1 Environmental Incidents

There were no environmental incidents in the year 2010 as a result of activities originating at Waterford Joinery Ltd.

3.4.2 Complaints

There have been no complaints logged for 2010 as a result of the activities originating at Waterford Joinery Ltd.

4. Management of the Activity

4.1 Environmental Management Programme (EMP) Report

Table 5 Environmental Objectives and Targets for 2010

No.	Licence Objectives	Target date	Progress
1	Ensure the proper segregation of waste and that all waste management practices are compliant with legislation and in agreement by the Agency.	Continuous	This is an on-going/continuous objective. The overall activity of the site has greatly reduced and thus the quantity of waste generated has also declined.
2	Revise and improve the sawdust management procedures on-site.	December 2010	The amount of sawdust has significantly decreased because of the reduction in activity. The sawdust is recycled as animal bedding at the moment.
3	Ensure the removal of the stockpile of soil every six months and outline to the Agency how this material will be used/disposed.	December 2010	This is actually timber trimmings. The company was approached by 2 different sources interested in this material: i.e. one for using it as a fuel and one for using it as animal bedding. Thus this objective will be on-going for 2010
4	Ensure all IBCs containing hardened glue are fitted with lids to prevent the entry of rainwater.	December 2010	With the reduction in activity, there are now very few IBC on-site, all housed and banded
5	Ensure the correct and designated storage of equipment around the site.	December 2010	Because of low level of trade, the instance of this is greatly reduced.
6	Carry out bund tests for all bunds which are due in the course of 2009	December 2010	Complete

4.2 Schedule of Environmental Objectives and Targets

The following table is a schedule of objectives and targets that have been set out by Waterford Joinery Ltd for 2011, in order to reduce any environmental impacts and improve environmental practices.

Table 6 Environmental Objectives and Targets for 2011

No.	Licence Objectives	Target Date
1	Ensure the proper segregation of waste and that all waste management practices are compliant with legislation and in agreement by the Agency.	Continuous
2	Revise and improve the sawdust management procedures on-site.	On-going
3	Ensure the removal of the stockpile of soil every six months and outline to the Agency how this material will be used/disposed.	On-going
4	Ensure all IBCs containing hardened glue are fitted with lids to prevent the entry of rainwater.	Continuous
5	Ensure the correct and designated storage of equipment around the site.	Continuous

4.3 Environmental Management Programme (EMP)

Below are all the objectives and targets listed above and the process by which they will be achieved.

Objective Number	OT1
Objective Title	Ensure the proper segregation of waste and that all waste management practices are compliant with legislation and in agreement by the Agency.
Target	Continuous
Responsibility	Sean McGrath

Plan

Steps	Who	Target
<ul style="list-style-type: none"> Ensure all disposal/recovery facilities have been agreed by the Agency. 	Sean McGrath	Continuous

Objective Number	OT2
Objective Title	Revise and improve the sawdust management procedures on-site.
Target	On-going
Responsibility	Sean McGrath

Plan

Steps	Who	Target
<ul style="list-style-type: none"> • Revise and improve the sawdust management procedures on-site 	Sean McGrath	On-going
<ul style="list-style-type: none"> • It would be beneficial to extend the walls of the dust collection area. 	Sean McGrath	On hold
<ul style="list-style-type: none"> • Empty dust bins regularly 	Sean McGrath	Continuous

Objective Number	OT3
Objective Title	Ensure the removal of the stockpile of soil every six months and outline to the Agency how this material will be used/disposed.
Target	On-going
Responsibility	Sean McGrath

Plan

Steps	Who	Target
<ul style="list-style-type: none"> Submit a proposal to the Agency outlining how this material will be disposed. 	Sean McGrath	On-going

Objective Number	OT4
Objective Title	Ensure all IBCs containing hardened glue are fitted with lids to prevent the entry of rainwater
Target	Continuous ^{Note 1}
Responsibility	Sean McGrath

Plan

Steps	Who	Target
<ul style="list-style-type: none"> Ensure all IBCs containing hardened glue are fitted with lids to prevent the entry of rainwater 	Sean McGrath	Continuous Note 1

With the reduction in activity, there are now very few IBC on-site, all housed and banded

Objective Number	OT5
Objective Title	Ensure the correct and designated storage of equipment around the site.
Target	Continuous
Responsibility	Sean McGrath

Plan

Steps	Who	Target
<ul style="list-style-type: none"> • Obsolete equipment, timber, metal drums, pallets, recyclable waste should be segregated and stored correctly in designated storage areas. 	Sean McGrath	Continuous

5. Licence-Specific Reports

5.1 Boiler efficiency

The combustion efficiency determination of the Wanson boiler was carried out on the 9 May 2010. The following table summarises the results for this test.

Parameter	Result
Temperature °C	181
CO ppm	19
CO ₂ %	5.1
Excess Air %	196
Efficiency %	82.5
O ₂ %	14.0

In practice, air is supplied to the boiler beyond what is theoretically required for complete combustion: a certain amount of excess air has to be supplied to the burner to ensure full combustion and provide a safety factor. If not (i.e. lack of oxygen), incomplete combustion would result in unburnt or partially burnt fuel, thus result in emission of CO (highly toxic gas), inefficiency and fuel wastage. However, excess air is cooling the combustion chamber, carrying heat away into the flue thus reducing the efficiency. Therefore, the excess air level should not be too high either.

As a guideline, burners should be able to operate down to 15 % excess air with an upper limit of about 20%, and measures should be taken to adjust the burner if CO₂ in the flue gases is less than about 13% for oil. The excess value in this boiler is higher than the typical excess air guidelines. This can be explained by the fact that the boiler was not running on full load during the monitoring. This is because this boiler is not used frequently and was switched on for the monitoring.

5.2 Bund Integrity Assessment


The Bund Integrity Assessment took place on the 29 April 2009. The following banded areas were tested:

- Expansion Vessel
- Standard Twin IBC Spill Pallet
- 2 x Spill Pallet
- Bunded Drum Trolley
- Spill Trays
- Three chambers interconnected bund
- Block bund lined with foam sealant
- Concrete bund on top of concrete roof Lined with foam sealant. Oil tank for space heating boiler
- Block walls lined with foam. Wood preservative tank
- Wood preservative and treatment plant

All the above bunds passed the water-tightness test. The report detailing the results of the test is Document 1121-02.

6. PRTR

The PRTR excel sheets sent to the Environmental Protection Agency are provided in this section:

A		B	
1	 Environmental Protection Agency	IPRTR#: P0350 Facility Name: Waterford Joinery Limited Filename: P0350_2010.xls Return Year: 2010	
2			
3			
4		Guidance to completing the PRTR workbook	
5		AER Returns Workbook	
6		Version 1.1.12	
7			
8			
9	REFERENCE YEAR		2010
10			
11	1. FACILITY IDENTIFICATION		
12	Parent Company Name	Waterford Joinery Limited	
13	Facility Name	Waterford Joinery Limited	
14	PRTR Identification Number	P0350	
15	Licence Number	P0350-01	
16			
17	Waste or IPPC Classes of Activity		
18		No.	class_name
19		8.3	The treatment or protection of wood, involving the use of preservatives, with a capacity exceeding 10 tonnes of wood per day.
20			
21			
22	Address 1	Ballinamuck	
23	Address 2	Dungarvan	
24	Address 3	Co. Waterford	
25	Address 4		
26			
27			
28	Country	Ireland	
29	Coordinates of Location	-7.65117 52.1026	
30	River Basin District	IESE	
31	NACE Code	1610	
32	Main Economic Activity	Sawmilling and planing of wood	
33	AER Returns Contact Name	Sean McGrath	
34	AER Returns Contact Email Address	waterfordjoinery@eircom.net	
35	AER Returns Contact Position	Commercial Manager	
36	AER Returns Contact Telephone Number	058 - 41417	
37	Returns Contact Mobile Phone Number		
38	AER Returns Contact Fax Number	058 - 42872	
39	Production Volume	0.0	
40	Production Volume Units		
41	Number of Installations	0	
42	Number of Operating Hours in Year	0	
43	Number of Employees	0	
44	User Feedback/Comments		
45	Web Address		
46			
47	2. PRTR CLASS ACTIVITIES		
48	Activity Number	Activity Name	
49	50.1	General	
50			
51			
52	3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)		
53	Is it applicable?	No	
54	Have you been granted an exemption?		
55	If applicable which activity class applies (as per Schedule 2 of the regulations)?		
56	Is the reduction scheme compliance route being used?		
57			

4.1 RELEASES TO AIR		Link to previous years emissions data		IPRR# : P0350 Facility Name: Waterford Joinery Limited File Name : P0350_2010.sbr Return Year: 2010		24/06/2011 15:11		
1								
2								
3	SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS							
4	RELEASES TO AIR							
5	POLLUTANT	METHOD	Please enter all quantities in this section in KGs				QUANTITY	
6	No. Annex II	Method Used	ADD EMISSION POINT					
7		Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year		
8				0.0	0.0	0.0		
9	ADD NEW ROW	DELETE ROW *	* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button					
10								
11	SECTION B : REMAINING PRTR POLLUTANTS							
12	RELEASES TO AIR							
13	POLLUTANT	METHOD	Please enter all quantities in this section in KGs				QUANTITY	
14	No. Annex II	Method Used	ADD EMISSION POINT					
15		Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year		
16				0.0	0.0	0.0		
17	ADD NEW ROW	DELETE ROW *	* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button					
18								
19	SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)							
20	RELEASES TO AIR							
21	POLLUTANT	METHOD	Please enter all quantities in this section in KGs				QUANTITY	
22	Pollutant No.	Method Used	ADD EMISSION POINT					
23		Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year		
24				0.0	0.0	0.0		
25	ADD NEW ROW	DELETE ROW *	* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button					
26								
27	Additional Data Requested from Landfill operators							
28	For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emissions to the environment under T (total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:							
29	Landfill: Waterford Joinery Limited							
30	Please enter summary data on the quantities of methane flared and / or utilised							
31								
32	Total estimated methane generation (as per site model)							
33	Methane flared			0.0				
34	Methane utilised in engines			0.0				
35	Net methane emission (as reported in Section A, above)			0.0				
36								
37								

1		4.2 RELEASES TO WATERS		Link to previous years emissions data		IPRTR#: P0350 Facility Name : Waterford Joinery Limited Filename : P0350_2010.xls Return Year : 2010 29/06/2011 13:11	
2		SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS					
3		RELEASES TO WATERS					
4		POLLUTANT					
5		M/C/E		Method Used		QUANTITY	
6		No. Annex II		Designation or Description		T (Total) KG/Year	
7						A (Accidental) KG/Year	
8						F (Fugitive) KG/Year	
9		ADD NEW ROW		DELETE ROW *		0.0 0.0 0.0	
10							
11		SECTION B : REMAINING PRTR POLLUTANTS					
12		RELEASES TO WATERS					
13		POLLUTANT					
14		M/C/E		Method Used		QUANTITY	
15		No. Annex II		Designation or Description		T (Total) KG/Year	
16						A (Accidental) KG/Year	
17						F (Fugitive) KG/Year	
18		ADD NEW ROW		DELETE ROW *		0.0 0.0 0.0	
19							
20		SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)					
21		RELEASES TO WATERS					
22		POLLUTANT					
23		M/C/E		Method Used		QUANTITY	
24		Pollutant No.		Designation or Description		T (Total) KG/Year	
25						A (Accidental) KG/Year	
						F (Fugitive) KG/Year	
25		ADD NEW ROW		DELETE ROW *		0.0 0.0 0.0	

1		4.3 RELEASES TO WASTEWATER OR SEWER		Link to previous years emissions data		IPRTR#: P0350 Facility Name : Waterford Joinery Limited Filename : P0350_2010.xls 29/06/2011 13:11	
2		SECTION A : PRTR POLLUTANTS					
3		OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					
4		POLLUTANT					
5		M/C/E		Method Used		QUANTITY	
6		No. Annex II		Designation or Description		T (Total) KG/Year	
7						A (Accidental)	
8						F (Fugitive)	
9		ADD NEW ROW		DELETE ROW *		0.0 0.0 0.0	
10							
11		SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)					
12		OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					
13		POLLUTANT					
14		M/C/E		Method Used		QUANTITY	
15		Pollutant No.		Designation or Description		T (Total) KG/Year	
16						A (Accidental)	
						F (Fugitive)	

4.4 RELEASES TO LAND		Link to previous years emissions data	
SECTION A : PRTR POLLUTANTS			
4	POLLUTANT	RELEASES TO LAND	
5		METHOD	QUANTITY
6		Method Used	
7	No. Annex II	Method Code	A (Accidental) KG/Year
8		Designation or Description	
9		Emission Point 1	I (Total) KG/Year
10			0.0
11			0.0
SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)			
12	POLLUTANT	RELEASES TO LAND	
13		METHOD	QUANTITY
14		Method Used	
15	Pollutant No.	Method Code	A (Accidental) KG/Year
16		Designation or Description	
17		Emission Point 1	I (Total) KG/Year
18			0.0
19			0.0

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE		Link to previous years emissions data	
SECTION A : PRTR TRANSFERS OF WASTE			
1	WASTE	RELEASES TO LAND	
2		METHOD	QUANTITY
3		Method Used	
4		Designation or Description	
5		Emission Point 1	I (Total) KG/Year
6			0.0
7			0.0
SECTION B : REMAINING WASTE TRANSFERS (as required in your Licence)			
8	WASTE	RELEASES TO LAND	
9		METHOD	QUANTITY
10		Method Used	
11		Designation or Description	
12		Emission Point 1	I (Total) KG/Year
13			0.0
14			0.0

1	Transfer Destination	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Location of Treatment	Headline Name and Licence of Next Destination Facility	Headline Name and Licence of Next Waste Receiver/Disposer	Headline Name and Licence of Next Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery/Disposal Site (HAZARDOUS WASTE ONLY)
2	20 03 01	2.86	mixed municipal waste	D1	Onsite in Ireland	D'Meara Waste Disposal TRA Mt. Binman Clonmel, WCP-KK-10-545-01	D'Connell Street 18, Clonmel, Co Tipperary, Ireland		