

**PADRAIG THORNTON WASTE DISPOSAL LTD**

**DUNBOYNE CIVIC AMENITY AND  
MATERIALS RECYCLING FACILITY**  
Waste License W0206-01



**ANNUAL ENVIRONMENTAL REPORT 2014**

**Submitted February 2015**

*Prepared by Mercedes Kavanagh- Environmental Manager*

## Table of Contents

<b>List of Tables 2014</b> .....	2
1. Introduction.....	3
2. Description of the Site and Licensed Waste Activities .....	3
3. Waste Management Record.....	4
3.1 Waste Acceptance.....	5
3.2 Waste Received 2014 .....	6
3.3 Waste Consigned 2014 .....	7
4. Dust and Particulate Matter Monitoring .....	7
4.1 Dust Monitoring.....	7
4.2 Particulate Matter Monitoring .....	8
5 Noise Monitoring.....	8
6. Emissions to Surface Water and Foul Water .....	9
6.1 Surface Water monitoring.....	9
6.2 Foul Water Monitoring.....	11
7. Resource Consumption Summary .....	13
7.1 Water.....	13
7.2 Diesel .....	13
7.3 ESB .....	14
8 Complaints Summary .....	15
9 Schedule of Environmental Objectives and Targets and Environmental Management Programme.....	15
10 Tank and Pipeline Inspection Report.....	15
10.1 Tank Bunding .....	15
10.2 Pipeline Testing .....	15
11 Reported Incidents Summary .....	15
12 Odour Management Programme.....	16
13 Energy Efficiency Audit Report Summary.....	16
14 Pest Control Programme Report.....	16
15 Report on Progress made and Proposals being developed to Minimise Water Demand and the Volume of Trade Effluent Discharge.....	16
15.1 Water Requirements .....	16
15.2 Water supply and Storage .....	17
15.3 Foul water discharge.....	17
15.4 Progress on Minimisation of Water Usage.....	17
16 Reports on Financial Provision made under this License, Site Management structure of the facility and a Programme for Public Information.....	17
16.1 Financial Provision .....	17
16.2 Site Management Structure 2014.....	18
16.3 Program of Public Information .....	18
17 Environmental Liabilities .....	19

### List of Tables 2014

Table 1 - Summary of Waste accepted at the MRF during 2014 .....	6
Table 2 - Summary of Waste accepted at the CA site during 2014.....	6
Table 3 - Summary of Waste consigned from the site during 2014 .....	7
Table 4 - Dust deposition results for each dust monitoring location per quarter during the year 2014 .....	8
Table 5 - PM10 Monitoring 2014 .....	8
Table 6 - Bi-annual noise monitoring results for the period of 2014 at 6 locations .....	9
Table 7 - Surface water monitoring results per quarter of 2014 at monitoring location SW1 .....	10
Table 8 - Surface water monitoring results per quarter of 2014 at monitoring location SW2 .....	10
Table 9 - Surface water monitoring results per quarter of 2014 at monitoring location SW3 .....	10
Table 10 - Foul water monitoring results per quarter of 2014.....	12
Table 11 - Heavy Metal Results for Foul Water 2014.....	12
Table 12 - Foul and Surface Water discharges from 2005-2014 (m <sup>3</sup> ).....	13
Table 13 - Comparison of ESB energy usage between 2010- 2014 .....	14

### List of Appendices 2014

- Appendix 1 – Dust Deposition and PM10 monitoring locations
- Appendix 2 – Noise monitoring locations
- Appendix 3 - Surface and Foul water monitoring location
- Appendix 4 - Summary of Insurance Details 2014-2015
- Appendix 5 – PRTR for Dunboyne

## **1. Introduction**

Padraig Thornton Waste Disposal Limited (PTWDL) operates waste license (W0206-01) which was issued by the Environmental Protection Agency (EPA) on the 25<sup>th</sup> July 2005 to operate a Civic Amenity and Materials Recycling Facility. In accordance with the requirements of Condition 11.9 and Schedule D of the waste License, an Annual Environmental Report (AER) for the facility must be submitted to the EPA not later than March 31<sup>th</sup> of each year for the preceding calendar year. This AER is for the period from the 1<sup>st</sup> January 2014 to 31<sup>st</sup> December 2014.

The facility is located at:-

Dunboyne Industrial Estate,  
Dunboyne,  
Co. Meath.

The contact details for the facility are as follows:

Telephone: 01 6235133 / 0868241034

Fax: 01 6235131

EPA Site Contact: Mercedes Kavanagh

The national grid reference for the facility is 3011E, 2428N.

The address and contact details for the facility operator's headquarters are:

Thorntons Recycling  
Unit S3B Henry Road,  
Parkwest Business Park,  
Dublin 12.

Telephone: 01-6235133

Fax: 01-6235131

## **2. Description of the Site and Licensed Waste Activities**

The facility is located in the Dunboyne Industrial Estate, which is 600m north of Dunboyne village on the R157 road. The site occupies an area of approximately 1.6 hectares. Access to the facility is via the Dunboyne Business Park.

The surrounding land is predominately agricultural pastureland, with the remaining land consisting of light industrial processes within the Dunboyne Industrial Estate. The nearest residential area is Lutterell Hall, which is located approximately 200m southwest of the facility. In 2009 the new R157 was constructed north of the facility. This is known locally as the "Dunboyne By-Pass".

The licensed waste handling activities, permitted under the Third Schedule<sup>1</sup> and Fourth Schedule<sup>2</sup> of the waste Management Act 1996 to 2003 for the facility are detailed below:

*Third Schedule, Class 11:* Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.

*Third Schedule, Class 12:* Repackaging prior to submission to any activity referred to in a preceding paragraph of this schedule.

*Third Schedule, Class 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.

*Fourth Schedule, Class 2:* Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).

*Fourth Schedule, Class 3:* Recycling or reclamation of metal and metal compounds.

*Fourth Schedule, Class 4:* Recycling or reclamation of other inorganic materials.

*Fourth Schedule, Class 12:* Exchange of waste for submission to any activity referred to in a preceding paragraph of this schedule.

*Fourth Schedule, Class 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.

### **3. Waste Management Record**

During 2014 all skip waste was diverted from the facility to Thorntons Recycling Killeen Road facility (waste license W0044-02) until July 2014 when the facility reopened (EPA notification LR011507). The MRF was used for temporary storage and baling of SRF from January – April 2014. The civic amenity site remained open to the public throughout 2014. All waste which entered the facility was checked and documented at the self-weighing weighbridge facility in accordance with our waste license W0206-01 and waste acceptance procedure EP13.

Weights from householders bringing materials to the civic amenity are calculated from the weights of the bulked loads before they are consigned from the facility.

Thorntons Recycling maintained ISO certification for ISO 14001 Environmental, ISO 9001 Quality and OHSAS 18001 Health and Safety at the Dunboyne facility. Integrated management procedures are available for inspection at any of the company offices on a designated drive called the X Drive IMS drive.

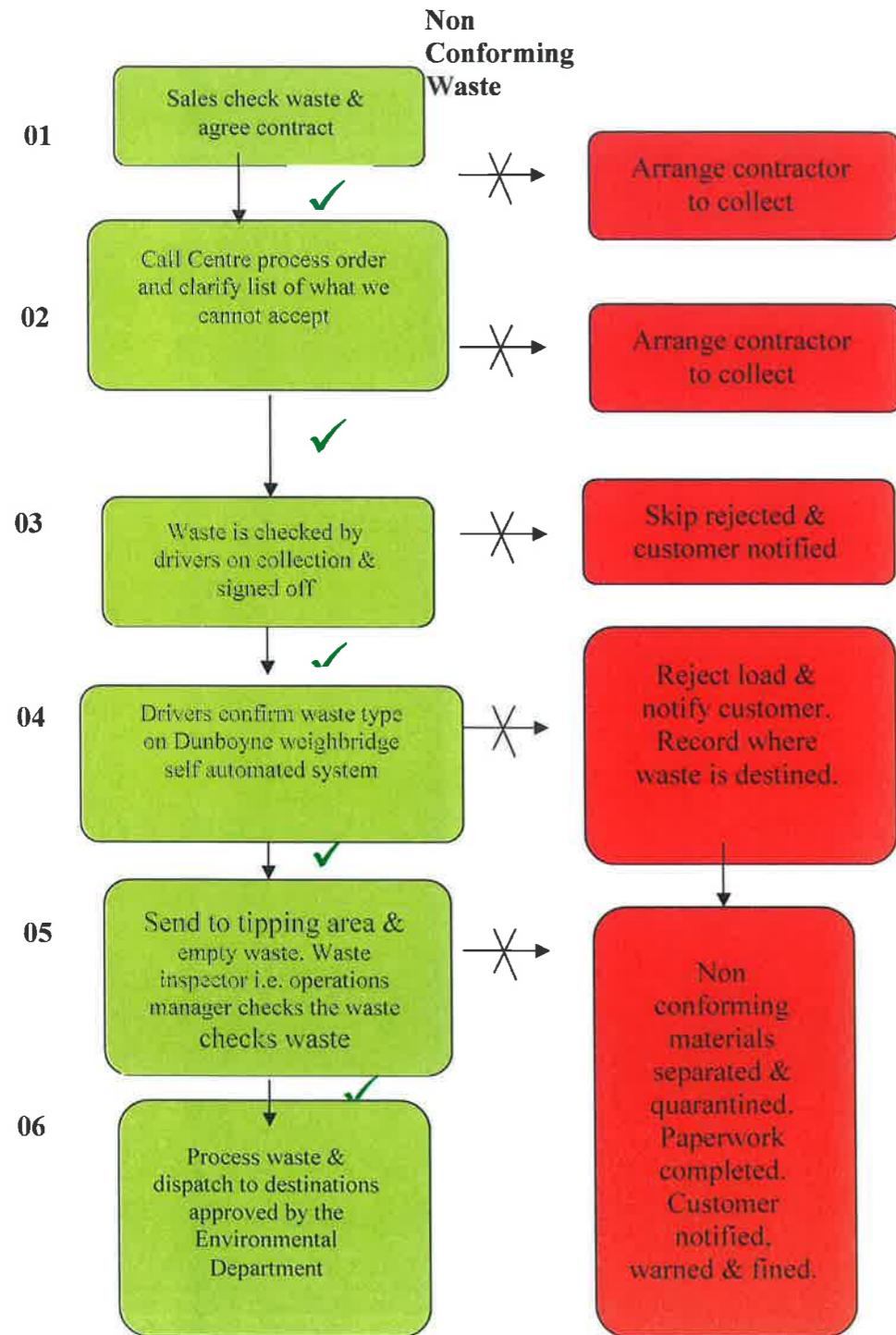
---

<sup>1</sup> Third Schedule- Waste Disposal Activities

<sup>2</sup> Fourth Schedule- Waste Recovery Activities

### 3.1 Waste Acceptance

Figure 1 below is a simplified diagram explaining the normal waste acceptance procedures at Thorntons Recycling Dunboyne





### 3.2 Waste Received 2014

A total of 27,703 tonnes of material was received at the Materials Recovery Facility (MRF) between 1<sup>st</sup> January 2014 and 31<sup>st</sup> December 2014. Of this 27,703 tonnes 4,493 tonnes was SRF (Solid Recovered Fuel) material for short term storage before being dispatched to approved facilities. A summary of the waste that was accepted during the year in the MRF and the CA site is detailed in Table 1 and 2 below;

**Table 1 - Summary of Waste accepted at the MRF during 2014**

<b>EWC</b>	<b>Material Received</b>	<b>Sum</b>
20 03 07	MMW Bulky	12942.68
15 01 03	Wood Packaging	311.62
17 02 01	Wood C&D Waste Wood	59.28
19 12 07	Wood processed or chipped	19.67
03 01 05	Wood Waste Manufacturing	51.86
17 02 03	Mixed Plastic Hard	1.16
19 12 04	Mixed plastic wrap - low grade	1.32
17 01 07	Clean Construction Rubble	102.58
17 05 04	Soil and Stone	1219.15
17 09 04	Mixed C&D Waste	7602.00
17 04 07	Metal Mixed C&D	9.98
19 12 02	Ferrous Metal Mixed Steel	37.75
19 12 10	Combustible Waste SRF Storage	4493.53
	<b>Total Into MRF Site</b>	<b>26852.58</b>

**Table 2 - Summary of Waste accepted at the CA site during 2014**

15 01 02	Mixed Plastic Bottles C.A	4.66
15 01 04	Aluminum C.A	1.74
15 01 05	Tetra- Pak C.A	1.08
20 01 01	Cardboard C.A	46.88
20 01 39	Mixed Plastic Film C.A	5.42
20 01 01	Mixed paper C.A	22.18
20 01 10	Clothes Banks	4.05
15 01 07	Glass Packaging (Bottles)	25.30
19 12 10	Combustible Waste Suit C.A.	46.92
20 01 23*	WEEE Fridges and Freezers	4.20
20 01 36	Mixed WEEE	53.35
15 01 03	Wood Packaging	45.30
17 09 04	Mixed C&D Waste	182.43
19 12 07	Processed Wood	67.20
20 01 40	Ferrous Metal Mixed Steel	43.14
20 02 01	Green Waste	49.18
20 03 1	Mixed Municipal Waste C.A.	10.76
20 03 07	Bulky Waste	237.33
	<b>Total into CA Site</b>	<b>851.12</b>

### 3.3 Waste Consigned 2014

A total of 27,991 tonnes of waste material was consigned from the facility during the reporting period of 2014. This tonnage includes tonnage which came through the civic amenity site.

**Table 3 - Summary of Waste consigned from the site during 2014**

EWC	Materials Consigned	Tonnes
19 12 02	Mixed Metals	179.62
19 12 12	Rubble	9849.79
15 01 03/19 12 07	Wood	1193.35
20 02 01	Green Waste	68.84
15 01 07	Glass Packaging	27.62
19 12 12	Trommel Fines	6055.48
20 03 01	Mixed Dry Recyclables	80.58
20 03 07	Bulky Mixed Waste	115.67
17 05 04	Soil and Stones	2592.19
20 03 07	Mixed Municipal Waste	1105.63
19 12 10	SRF / Combustible Waste	4655.44
17 09 04	Mixed Construction and Demolition Waste	1995.18
20 01 10	Textiles/Clothes Banks	4.05
20 01 35/36	Total WEEE – Mixed/Fridges and Freezers etc	57.55
	<b>Total Consigned from MRF and CA Site</b>	<b>27990.99</b>

Due to an increase in the Construction trade and commercial/ industrial and household skip waste the facility was re-opened for processing in July 2014 and the EPA was notified accordingly.

## 4. Dust and Particulate Matter Monitoring

### 4.1 Dust Monitoring

In compliance with Condition C.6 of waste license W0206-01 dust deposition and was carried out quarterly at the facility and subsequent reports were forwarded to the EPA. The monitoring locations are shown in Appendix 1 of this report. Dust deposition monitoring was carried out by independent consultants, Odour Monitoring Ireland during 2014 and reports were submitted to the EPA LR009004 11/04/2014, LR009639 19/05/2014, LR012963 & LR013232 10/11/2014 and LR013723 15/12/2014)

Dust deposition monitoring was carried out at four locations (D1-D4) using Bergerhoff type gauges placed at a height of at least 1.5 metres above the ground for a continuous period of 30 days. The results of the dust deposition are shown in Table 4 below.



**Table 4 - Dust deposition results for each dust monitoring location per quarter during the year 2014**

Dust Monitoring Dunboyne					
Monitoring	Quarter 1	Quarter 2	Quarter 3	Quarter 4	ELV
Locations	mg/m <sup>2</sup> /day				
D1	103	99	95	98	350
D2	169	172	176	184	350
D3	172	168	170	176	350
D4	116	112	110	106	350

The dust deposition results above show that there was no exceedance in the emission limit values for dust deposition in 2014 at the facility.

#### 4.2 Particulate Matter Monitoring

As agreed with the Agency particulate matter monitoring, PM10 was carried out in August 2014. Thorntons Recycling sent in a request (Reference LR011711 18/08/2014) to reduce/eliminate PM10 at the facility to the Agency on the 18<sup>th</sup> August 2014. The Agency requested (Ref R1003005) that one round of monitoring be completed, results are detailed below.

**Table 5 - PM10 Monitoring 2014**

PM10 Monitoring Dunboyne		
Monitoring	Quarter 3	ELV
Locations	29.09.14	mg/m <sup>3</sup> /day
D1	18	50
D2	15	50
D3	17	50
D4	18	50

Subsequent permission was granted from the Agency on the 10<sup>th</sup> October 2014 to reduce PM10 monitoring at the facility and no further monitoring was carried out in 2014.

#### 5 Noise Monitoring

During 2014 Noise monitoring was carried out by trained staff of Thorntons' Environmental Department. As the facility only operates during the day, only daytime monitoring was carried out in August and November/December 2014 and subsequent reports were forwarded to the EPA as per license conditions LR014353 13/01/15 and LR011638 12/08/2014. The monitoring locations are contained within Appendix 2 of this report. Monitoring was carried out at six sampling locations; four locations (NP1-NP4) are to determine the noise levels at the boundary during daytime operations and two locations (NP5 & NP6) are to determine the noise levels at the nearest noise sensitive

receptors. The results are tabulated in Table 6 for 2014 and show the recorded noise levels during the respective noise monitoring periods.

The analysis of the results from the noise monitoring submitted to the EPA shows that the noise levels at the noise sensitive locations are not adversely impacted upon by the site activities in 2014, elevations at noise sensitive receptors can largely be attributed to passing traffic and off site activity. The site did not reopen until July 2014 for reprocessing and remained largely inactive with all skip waste being diverted to our Killeen Road facility W0044-02 until this time.

**Table 6 - Bi-annual noise monitoring results for the period of 2014 at 6 locations**

Monitoring Locations	6th August 2014			19th November (NP1 and NP2), 5th (NP3, NP4, NP6) and 30th December 2014 (NP5)			ELV (dB)
	LA, eq (dB)	LA 10 (dB)	LA90(dB)	LA, eq (dB)	LA 10 (dB)	LA90(dB)	
NP1	69.1	72.3	64.1	72.4	75.3	51.7	N/A
NP2	62.3	64.4	51.7	60	63.2	49.3	N/A
NP3	63.5	61.6	51.4	58.7	61.6	51.4	N/A
NP4	58	61.1	47.3	61.8	63.8	55.6	N/A
NP5	69.7	56.8	45.1	51.4	53.5	41.9	55
NP6	63.6	61.1	50.3	68.9	68.8	51.4	55

## 6. Emissions to Surface Water and Foul Water

In compliance with schedule B.3, C.2.3, C.3.1 and C.3.2 monitoring is carried out on the foul and surface water. The monitoring locations for the foul (FW1) and surface water (SW1, SW2, and SW3) are shown in Appendix 3. Quarterly reports were forwarded to EPA as per waste license Q1 LR009008 11/04/14, Q2 LR010487 08/07/14, Q3 LR012605 07/10/14 and Q4 LR013465 21/11/04.

### 6.1 Surface Water monitoring

The waste license W0206-01 requires that monitoring be carried out at SW3 where the yard runoff is discharged to the local surface water drain after it passes through a silt trap and oil interceptor on site. As there are no emission limit levels contained within the license for surface water monitoring at SW3 additional monitoring points has historically been sampled upstream and downstream of the discharge point to identify any impact the site is having on the local surface water network. Quarterly monitoring reports have been forwarded to the EPA with detailed explanations of results.

Monitoring point SW1 is located upstream, to the west of the site, at the point where the local drain enters the site boundary. Monitoring point SW2 is located downstream to the north of the site where the drain leaves the site boundary. A bypass road for Dunboyne village runs adjacent to the site and the surface water drain.

**Table 7 - Surface water monitoring results per quarter of 2014 at monitoring location SW1**

<b>Surface Water 1 - Upstream Local Drain enters the Site</b>					
<b>Monitoring Parameters</b>	<b>Quarter 1 07.02.14</b>	<b>Quarter 2</b>	<b>Quarter 3 08.08.14</b>	<b>Quarter 4 08.10.14</b>	<b>Units</b>
BOD	1.1	*	2	7	mg/l
COD	<10	*	21	33	mg/l
Suspended Solids	<10	*	<10	813	mg/l
pH	7.2	*	7.4	7.6	pH Unit
Orthophosphate (as P)	0.030	*	0.06	0.03	mg/l
Ammonia as NH3-N	0.04	*	0.18	0.05	mg/l

**Table 8 - Surface water monitoring results per quarter of 2014 at monitoring location SW2**

<b>Surface Water 2 - Downstream Drain leaves the site</b>					
<b>Monitoring Parameters</b>	<b>Quarter 1 07.02.14</b>	<b>Quarter 2</b>	<b>Quarter 3 08.08.14</b>	<b>Quarter 4 08.10.14</b>	<b>Units</b>
BOD	<1	*	2	1	mg/l
COD	<10	*	13	<10	mg/l
Suspended Solids	<10	*	<10	<10	mg/l
pH	7.3	*	7.4	7.8	pH Unit
Orthophosphate (as P)	0.030	*	0.03	0.02	mg/l
Ammonia as NH3-N	0.04	*	0.13	0.02	mg/l

Monitoring point SW3 is the discharge point from the facility to the local drain. Due to SW3 being the discharge point a more detailed analysis of the water is carried out. The results for these are tabulated in Table 9.

**Table 9 - Surface water monitoring results per quarter of 2014 at monitoring location SW3**

<b>Surface Water 3 - Discharge Pipe</b>					
<b>Monitoring Parameters</b>	<b>Quarter 1 07.02.14</b>	<b>Quarter 2 17.06.14</b>	<b>Quarter 3 25.09.14</b>	<b>Quarter 4 08.10.14</b>	<b>EPA Trigger mg/l</b>
BOD	<5	2	3	2	
COD	<10	<10	17	16	<b>30</b>
Suspended Solids	<10	<10	<b>27</b>	<10	<b>25</b>
pH	7.4	7.7	7.8	7.7	<b>6 - 9</b>
Orthophosphate (as P)	<0.02	0.05	0.03	0.03	
Ammonia as NH3-N	0.02	0.4	0.42	0.35	
Visual inspection	<b>Log maintained on site</b>				

The surface water was historically sampled weekly by an independent consultant at S3, however following an EPA site inspection on the 11<sup>th</sup> March 2014 (EPA Reference SV00072) it was instructed that the licensee shall “only sample S3 when there is sufficient flow”. All results have been forwarded to the EPA in quarterly reports in 2014 in relation to weekly samples. There are no emission limit levels detailed in the licence however the EPA set trigger levels for this weekly sample in correspondence dated the 24<sup>th</sup> January 2011 (reference W0206-01/NC06NH).

These trigger levels set by the EPA were also used to compare quarterly samples during 2014. From quarterly reports there was only one slight exceedance in suspended solids in quarter 3 of 2mg/l, this was not reported to the Agency as an incident as it was only marginally exceeded on the day of sampling and an explanation was given in the quarterly report. During some of the quarterly reports samples have been carried out at three locations even though the license only specifies one. These are carried out to ascertain if indeed the site is having any impact on the surface water drainage network. S1 sample was taken from the stream at the point of entry into the site (upstream). S2 sample was taken from the stream at the point of exit from the site (downstream) and S3 sample was taken from the stream at the emission point from the site i.e. the outlet drainage pipe.

Trigger levels for pH, COD and suspended solids are below trigger levels of pH 6-9, COD 30mg/l and Suspended Solids 25mg/l as set down by the EPA with the exception of quarter 3 suspended solids which were only marginally elevated by 2mg/l. In fact during the fourth quarter of 2014 a sample taken from S1 i.e. where drain enters the site/upstream had elevated suspended solids and COD however on leaving the site at S2 COD and suspended solids levels had decreased, hence the entrance of S3, the surface water outlet from the facility, had a positive effect on the local drain during this quarter.

## **6.2 Foul Water Monitoring**

In accordance with the waste license (W0206-01) under schedule B and C all emissions to sewer must be monitored. Emissions to sewer must be monitored on a quarterly basis and were sent in with SW report as detailed in section 6.1.

Table 10 and Table 11 details foul water monitoring results for 2014

**Table 10 - Foul water monitoring results per quarter of 2014**

Monitoring	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 4	ELV
Parameters	21.02.14	24.06.14 REPORTED TO EPA	02.08.14	08.10.14	Split Sample with EPA 17.11.14	mg/l
BOD	40	66	35	16	20	1000
COD	99	142	115	37	166	3000
Suspended Solids	41	56	53	30	222	1000
pH	8.2	7.5	7.4	7.6	7.8	6 - 10
Phosphorus (as P)	2.8	4	0.73	0.74	1.58	20
Nitrates (as NO <sub>3</sub> )	<5	<5	<5	<5	<5	100
Total Ammonia	2.26	36.3	9.16	3.32	0.65	10
Mineral Oils	0.46	0.27	10.8	0.35	3.18	20
Sulphates (as SO <sub>4</sub> )	253.6	172.25	201.15	216.7	55.8	1000
Detergents MBAS	4.5	0.6	0.2	0.3	<0.2	20
Phenols	0.001	<0.005	<0.005	<0.005	<0.005	0.1
Chloride	31.7	57.7	52.6	19.1	7.2	250

**Table 11 - Heavy Metal Results for Foul Water 2014**

<b>Foul Water Heavy Metal Results</b>			
Monitoring	Quarter 2	Quarter 4	Quarter 4
Parameters ug/l	24.06.14	08.10.14	Split Sample with EPA 17.11.14
Dissolved Zinc Low Level	31.1	429	68
Dissolved Mercury Low Level	0.02	<0.02	<0.02
Dissolved Arsenic Low Level	10	10	10
Dissolved Cadmium Low Level	20	2	2
Dissolved Chromium Low Level	2	3	4.2
Dissolved Copper Low Level	15.7	14.6	18.8
Dissolved Lead Low Level	10	10	10
Dissolved Nickel Low Level	23	5	5
Dissolved Selenium Low Level	30	30	30
<b>Units measured in ug/l</b>			

The discharge to the foul water for each quarter of 2014 was below the emission limit values set down by the waste license with the exception of Ammonia in Quarter 2 which was reported to the EPA and corrective actions put in place. The heavy metals in the foul water were also measured during the reporting period, which is in compliance with the bi-annual monitoring requirements as per condition C.3.2 of the waste license (Table 11).



## 7. Resource Consumption Summary

This section details the resources used by the facility during the period of 1<sup>st</sup> January 2014 to the 31<sup>st</sup> December 2014. Resources that were monitored include fuels, water and ESB.

### 7.1 Water

In 2014 4,053m<sup>3</sup> of foul water was discharged from the site at FW1, as measured from the continuous recording meter located at the discharge point. 5,355m<sup>3</sup> was discharged to the surface water at SW3 as measured from the continuous recording meter located at the discharge point.

Water that is discharged via the foul water consists of water used in the toilets, showers, offices, truck wash, wheel wash, bin wash and washing down the MRF floors.

Water that is discharged into the surface water consists of water from the runoff from the roofs of the buildings and from the hard standing in the yard. Surface water runoff is not linked with the site activities and is linked with the quantity of rainfall and snow throughout the year, only rainwater that falls onto the hard standing and the roofs of the buildings is discharged at this point.

Table 12 - Foul and Surface Water discharges from 2005-2014 (m<sup>3</sup>)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Foul	3461	3080	3144	4691	4528	4622	3926	5632	4511	4053
Surface	5665	6459	6636	8479	8728	7003	5505	3918	4842	5355

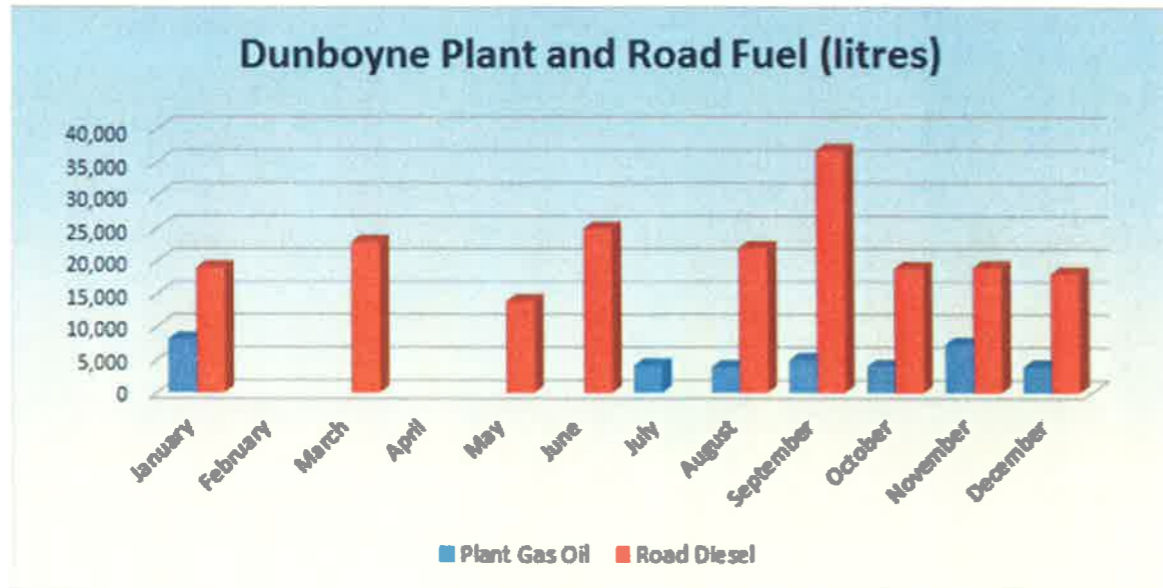
### 7.2 Diesel

The main types of fuel used at the facility include road diesel and plant diesel (Gas Oil) for the machinery working on site. During 2014 skip waste was diverted to Thorntons Recycling Centre, Killeen Road, Dublin 10, Waste License W0044-02 until July 2014 when processing commenced once again on site. The MRF was largely used for the storage of SRF during the first few months of the year while Cement Kilns in Ireland were carrying out their yearly shut down for maintenance works.

In total 36,588 liters of plant diesel (Gas Oil) and 196,188 litres of road diesel were delivered to the facility in 2014.



**Figure 2 Monthly consumption of road diesel and plant gas oil at Dunboyne during 2014**



### 7.3 ESB

Thorntons Recycling has implemented an energy management programme on all its licensed sites, which aims to reduce energy consumption.

As can be seen from Table 13 there was a reduction in electricity consumption from 2010 to 2013. I. A decrease in Daytime consumption may be attributed to a reduction in activity at the facility but also specific actions carried out as per the facilities energy management programme. Electricity used at the facility increased in 2014 due to the commencement of processing at the facility in July 2014.

Table 13 displays the annual usage of electricity from 2010-2014.

**Table 13 - Comparison of ESB energy usage between 2010- 2014**

Year	Day k/Wh	Night k/Wh
2010	94559	23880
2011	64054	17320
2012	20100	9540
2013	19080	10560
2014	41585	15300

## **8 Complaints Summary**

There were three environmental complaints received at the facility during 2014. Details of each complaint were logged on our internal management system (IMS) in accordance with company procedures and each complaint was dealt with and responded to by environmental management.

Thorntons Recycling takes all complaints seriously and is committed to resolving any complaints if made in relation to the facility. If we receive a complaint we adhere to the company complaints procedure as per our ISO certified integrated management system.

## **9 Schedule of Environmental Objectives and Targets and Environmental Management Programme**

Thorntons Recycling operates an Integrated Management System (IMS) which has been certified to ISO 14001 Environmental, OHSAS 18001 Health and Safety, ISO 9001 Quality. The complete content of the IMS is too large to contain within the body of this report, however the EPA can access this for inspection on a specially designated drive (X Drive) at any of the company's site offices.

The schedule of Environmental Objectives and Targets and the Environmental Management Programme for 2015 is maintained on the IMS/X Drive.

## **10 Tank and Pipeline Inspection Report**

### **10.1 Tank Bunding**

Thorntons Recycling commissioned Fehily, Timoney and Company to carry out testing on the bunds at the Dunboyne facility as per condition 6.7 of the waste license, all three bunds were tested and passed and were submitted to the Agency in 2014. Road diesel submitted 30<sup>th</sup> July 2014 (Reference LR011381) and Kerosene and Plant diesel bund certificates were submitted on the 7<sup>th</sup> July 2014 (Reference LR010487) via the online LMA reporting system.

### **10.2 Pipeline Testing**

The integrity and water tightness of all underground pipes and tanks and their resistance to penetration will be carried out once every 3 years as per Condition 6.7 of the waste license. Thorntons Tankering Service (TTS) completed a survey on all drains at the Dunboyne facility in November 2014. A full detailed copy of this report was forwarded to the EPA on the 8<sup>th</sup> December 2014 (Reference LR013622).

## **11 Reported Incidents Summary**

There were no incidents reported to the EPA in 2014.

## **12 Odour Management Programme**

In 2014 all skip waste was diverted from the facility to be processed at Thorntons Recycling, Killeen Road W0044-02 until July 2014. The facility was only used for the temporary baling and storage of SRF during the first half of the year. This material has been mechanically treated off site and would have a very low risk of potential odour emissions. No complaints in relation to odour were received at the facility in 2014.

## **13 Energy Efficiency Audit Report Summary**

Thorntons Recycling has an energy management system for all its licensed sites. Energy and resource usage are monitored such as electricity, Kerosene, road diesel etc. The system is available for viewing at any of the licensed facilities at Thorntons Recycling. It is hoped that with successful management that we will continue to make further reduction in energy resources.

## **14 Pest Control Programme Report**

Pest control is carried out at 8 scheduled visits per year. Complete Pest Control are contracted to carry out pest control at the facility. Overall pest activity in 2014 was very low. A copy of the Pest Control programme can be viewed on site.

## **15 Report on Progress made and Proposals being developed to Minimise Water Demand and the Volume of Trade Effluent Discharge**

### **15.1 Water Requirements**

Water is required on the site for the following activities;

- Toilet and Canteen facilities
- Washing down the MRF
- Truck wash
- Fire Suppression

However in 2014 the site remained largely inactive until July 2014 so water was only used for sanitary facilities and bin washing. There was no fire at the site during 2014, thus no fire water was used.

With the exception of the fire suppression all of the above facilities discharge their effluents into the foul drainage system. In the event of a fire the water used to suppress it will be maintained on site for testing prior to discharge in the appropriate manner in consultation with the Agency and the appropriate local authorities. Thorntons Recycling has their own liquid waste/tankering division (TTS) who can be called upon in the event of an emergency.

## **15.2 Water supply and Storage**

Water is supplied to the site via Meath County Council water mains network. An 80m<sup>3</sup> water storage tank is located adjacent to the MRF. Water from this tank is used to wash down the MRF floor and for fire suppression if required. This tank is backed up with an auxiliary pump to increase the pressure in the event of requiring the stored water for fire suppression.

## **15.3 Foul water discharge**

The license permits a maximum of 30m<sup>3</sup>/day to be discharge into the foul water. This equated to a total of 9360m<sup>3</sup> per year based on a six day working week. The meter reading on the foul water discharge shows that approximately 4,053m<sup>3</sup> was discharged from the facility during 2014.

## **15.4 Progress on Minimisation of Water Usage**

The water usage is now very low on the site due to all skip waste being diverted to our Dublin facility until July 2014. The site was predominantly used for the storage of Solid Recovered Fuel (SRF) awaiting dispatch to approved cement kilns in Ireland for the first half of the year and the Civic Amenity site remained active. The main demand on water are related to washing of domestic trucks and bins. Thorntons Recycling road sweeper cleans the yard and the hard standing when required avoiding the excessive use of water in the cleaning process on site.

## **16 Reports on Financial Provision made under this License, Site Management structure of the facility and a Programme for Public Information**

### **16.1 Financial Provision**

Padraig Thornton Waste Disposal Ltd, is insured by JLT (Appendix 4). PTWDL is insured for Employers Liability, Public/Products Liability and Motor Insurance.

Thorntons Recycling is insured under public liability for €13 million for sudden and accidental pollution incidents. Thorntons Recycling is a financially secure company, which is evident from the director's report and consolidated financial statements for the year ending 31<sup>st</sup> December 2013. The company has in place an integrated management system (IMS) which is certified to ISO14001 (Environmental), ISO9001 (Quality) and OHSAS18001 (Health and Safety) Management Standards. Detailed risk assessments and environmental aspects are in place for the facility where appropriate levels of controls have been identified and assessed to ensure that standards are maintained and environmental risks are minimized.

A report in relation to the financial provision is required under condition 12.3 and was forwarded to the EPA previously. This report details the financial status of the company, financial commitments to cover environmental issues, decommissioning, aftercare management, environmental pollution and contingency arrangements in place at the

facility. At this time detailed risk assessments were carried out and in conclusion the assessment states that no scenarios were identified which would exceed the insurance cover where the potential remediation costs would threaten the financial solvency of the company.

#### 16.2 Site Management Structure 2014

Paul Thornton  
Director

Gary Brady  
Managing Director

Ciaran Dowling  
Operations Facility Manager

Maria Andrews  
EHS Manager

G. Curran/M.Kavanagh  
Environmental Managers

Mercedes Kavanagh will be the Environmental Manager for the site in 2015 with Grace Curran as Deputy. She can be contacted regarding any queries that the Environmental Protection Agency may have. Mercedes' contact details are mobile 086-8241034 and e-mail [mercedes@thorntons-recycling.ie](mailto:mercedes@thorntons-recycling.ie) and Grace is on 086 7911688

#### 16.3 Program of Public Information

Thorntons Recycling operates an open door policy. All information relating to activities carried out at Thorntons Recycling Civic Amenity and Materials Recovery Facility (MRF) is maintained on site. Public information is accessible at the site by appointment with the Environmental Department, Thorntons Recycling Head Office or at the Office of Environmental Enforcement.

All new and existing clients are brought through our waste acceptance procedures and are supplied with information by sales representatives or customer service agents in relation to what waste types we can accept at the facility. During 2014 all skip waste was diverted to our Killeen Road facility, W0044-02 until July 2014 when the facility reopened for processing. The civic amenity site remained open for all of 2014.

Thornton's Recycling website has a compliance section which customers can access, key environmental information such as waste collection permit numbers and waste licenses etc. are included on this website.

As discussed previously Thorntons Recycling Dunboyne has certification in ISO14001, ISO9001 and OHSAS18001 and has a detailed communication procedure which is available for the public on request.

## 17 Environmental Liabilities

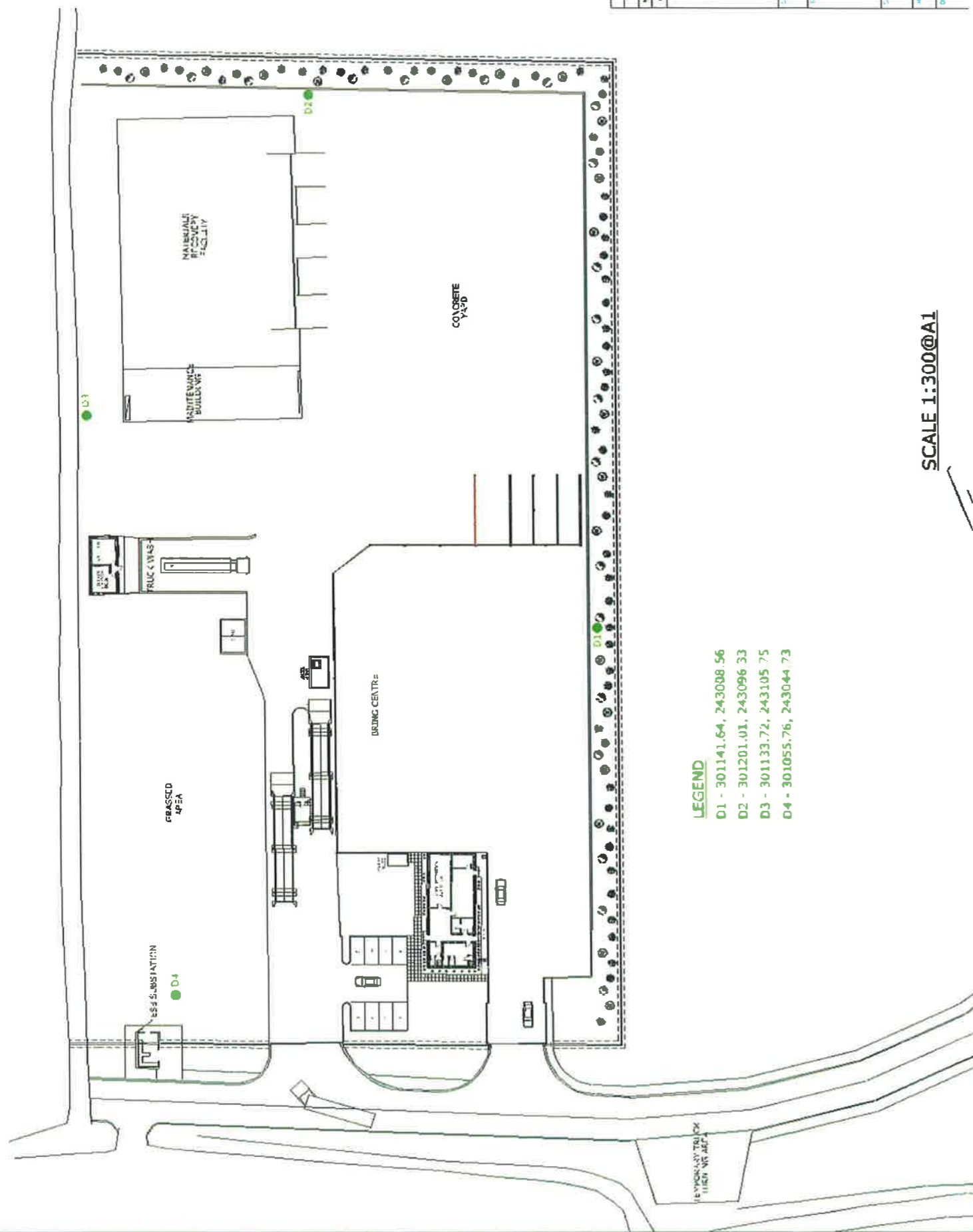
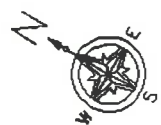
Thorntons Recycling is committed to achieving the highest possible level of environmental performance and to the prevention of environmental damage. All facilities operated by the company are certified to international standards for Environmental, Health and Safety and Quality. All sites are subject to surveillance audits which are carried out by Certification Europe.

Environmental liabilities and aspects are elements of our integrated management system (Procedure PM01 – Environmental Aspects Procedure and associated aspects register) which are regularly maintained and updated and are audited in detail during surveillance audits and internal audits carried out by trained auditors within the company. The Environmental Aspects Register (PM01-F02) for Thorntons Recycling Dunboyne facility is available for inspection on site. The company also has employed environmental management staff to ensure best practice guidelines and compliance with waste license W0206-01. A comprehensive emergency plan exists for all facilities operated by the company.



# Appendix 1

NOTES:



- LEGEND**
- D1 - 301141.64, 243008.56
  - D2 - 301201.01, 243096.33
  - D3 - 301133.72, 243105.75
  - D4 - 301055.76, 243044.73

SCALE 1:300@A1

Client: Thornion's Recycling	Scale: 1:300	Date: 01/22
Project: AS BUILT	Sheet: 1	

**THORNION'S RECYCLING**  
 KILLEEN ROAD, DUBLIN 10  
 TEL: - 02885799 FAX: - 0236737  
 www.thornions-recycling.ie

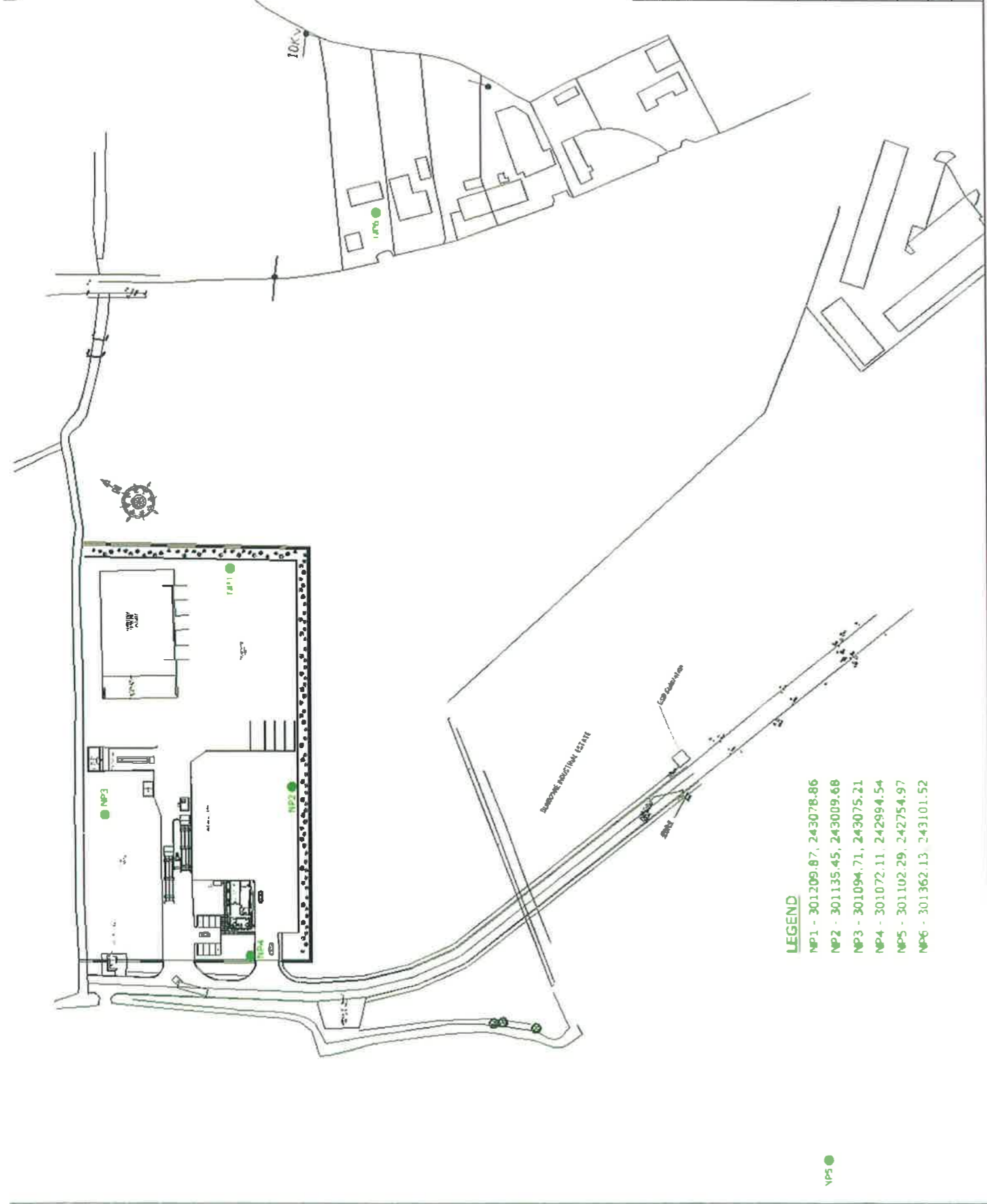
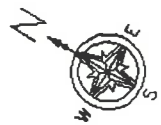
AS BUILT

SITE LAYOUT  
 DUNDEE RECYCLING CENTER  
 SHOWING BEST MONITORING POINT LOCATIONS

Scale	Date	Drawn by	Checked by
AS SHOWN	06/10/15	AT	AT
Sheet No.	7	PKC	

01-2-22

# Appendix 2



- LEGEND**
- NP1 - 301209.87, 243078.86
  - NP2 - 301135.45, 243009.68
  - NP3 - 301094.71, 243075.21
  - NP4 - 301072.11, 242994.54
  - NP5 - 301102.29, 242754.97
  - NP6 - 301362.13, 243101.52

VPS ●

NO. OF SHEETS	1	OF	1
DATE	01/11/05	BY	...
PROJECT	...		

**THORNTONS**  
RECYCLING

MILLEN ROAD, DUBLIN 10  
TEL: - 8235133 FAX: - 8235131  
www.thorntons-recycling.ie

AS BUILT

SITE LAYOUT  
DUNDEE RECYCLING CENTER  
SHOWING NOISE MONITORING POINT LOCATIONS

DATE	05/10/05	BY	...
NO.	1	OF	1
PROJECT	...		

01-2-24 2

# Appendix 3





# Appendix 4



JLT Ireland  
Warrington House  
Mount Street Crescent  
Dublin 2

Tel +353 1 2026000  
Fax +353 1 2375200  
Email [jlt@jlt.ie](mailto:jlt@jlt.ie)

[www.jlt.ie](http://www.jlt.ie)

1<sup>st</sup> July 2014

**Re: Padraig Thornton Waste Disposal Ltd**

This is to confirm that we act as Insurance Brokers for the above client and that we currently hold the following covers in place on their behalf:-

**Employers Liability:**

Covering the legal liability of the Insured to employees for death or bodily injury or disease arising out of and in the course of their employment by the Insured in the business of Waste Collection, Recycling and Disposal including Electrical Waste and End of Life Vehicles, Composting, Maintenance of Own Vehicles and Contractor's Vehicles Used on the Business of the Insured, Bin Repair and Property Owners during the period of Insurance.

**Insurers:** FBD plc  
**Policy No.:** 004330532201  
**Renewal Date:** 01<sup>st</sup> July 2015

**Limit of Indemnity:** €13,000,000 any one occurrence inclusive of all costs and expenses.  
A separate excess policy placed with QBE Ireland brings the limit up to €20,000,000

**Public / Products Liability:**

Covering the legal liability of the Insured for accidental bodily injury to third party persons or accidental damage to third party material property arising in connection with the business and subject to the limit of indemnity specified. Including legal liability arising out of goods sold or supplied.

**Insurers:** FBD plc  
**Policy No.:** 00433053401  
**Renewal Date:** 01<sup>st</sup> July 2015

**Limit of Indemnity:** Public Liability €2,600,000 any one accident,  
Products Liability €2,600,000 any one period  
A separate excess policy placed with QBE Ireland brings the limit up to €13,000,000  
Cover is subject to Insurers policy terms and conditions

Indemnity to principals clause applies.

**Motor Fleet:**

**Insurers:** FBD plc  
**Policy No.:** 004330532201  
**Renewal Date:** 01<sup>st</sup> July 2015

Third Party Property Damage Limit €1.3 m but increased to €6.4m under an excess policy with QBE Ireland.

"These statements have been made in good faith and are a resume of the insurance cover in force (which is subject to the full terms and conditions of the policy). We accept no responsibility whatsoever for any inadvertent or negligent act, error or omission on our part in preparing these statements or for any loss, damage or expense thereby occasioned to any recipient of this letter".

JLT Insurance Brokers Ireland Limited trading as JLT Ireland, JLT Financial Services, GIS Ireland, Charity Insurance, Teachwise, Childcare Insurance, JLT Online, JLT Trade Credit Insurance, JLT Sport is regulated by the Central Bank of Ireland.



Directors: P. Howell, P. Doherty, D. McCarthy, R. O'Higgins, E. Bergin, A. Gring (UK)  
Registered Office: Warrington House, Mount Street, Crescent, Dublin 2  
A member of Jardine Lloyd Thompson Group plc. Registered in Ireland No. 21622. VAT No. 0042175W



We trust that this is in order but if you require further details, please do not hesitate to contact the undersigned.

Yours sincerely

A handwritten signature in black ink, appearing to read 'David Gray', written over a horizontal line.

**David Gray, ACII**  
**Account Executive**

☎ 01 230 9249

✉ dgray@jlt.ie

# Appendix 5



| PRTR# W0206 | Facility Name Padraig Thornton Waste Disposal Ltd | Filename PRTR W0206\_2014.xls | Return Year 2014 |

**Guidance to completing the PRTR workbook**

# AER Returns Workbook

Version 1.1.18

<b>REFERENCE YEAR</b>	2014
-----------------------	------

**1. FACILITY IDENTIFICATION**

Parent Company Name	Padraig Thornton Waste Disposal Limited
Facility Name	Padraig Thornton Waste Disposal Ltd
PRTR Identification Number	W0206
Licence Number	W0206-01

**Classes of Activity**

No.	class name
-	Refer to PRTR class activities below

Address 1	Dunboyne Industrial Estate
Address 2	Dunboyne
Address 3	
Address 4	
	Meath
Country	Ireland
Coordinates of Location	-6.47927 53.4281
River Basin District	IEEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
<b>AER Returns Contact Name</b>	Mercedes Kavanagh
<b>AER Returns Contact Email Address</b>	mercedes@thorntons-recycling.ie
<b>AER Returns Contact Position</b>	Environmental Manager
<b>AER Returns Contact Telephone Number</b>	016202208
<b>AER Returns Contact Mobile Phone Number</b>	0868241034
<b>AER Returns Contact Fax Number</b>	016235131
<b>Production Volume</b>	50000.0
<b>Production Volume Units</b>	tonnes
<b>Number of Installations</b>	0
<b>Number of Operating Hours in Year</b>	0
<b>Number of Employees</b>	2
<b>User Feedback/Comments</b>	Civic Amenity only used in 2014. MRF did not reopen for processing until July 2014 used for storing SRF at the beginning of the year
<b>Web Address</b>	www.thorntons-recycling.ie

**2. PRTR CLASS ACTIVITIES**

Activity Number	Activity Name
50.1	General
5(c)	Installations for the disposal of non-hazardous waste
50.1	General

**3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)**

Is it applicable?	
Have you been granted an exemption?	
If applicable which activity class applies (as per Schedule 2 of the regulations)?	
Is the reduction scheme compliance route being used?	

**4. WASTE IMPORTED/ACCEPTED ONTO SITE**

Guidance on waste imported/accepted onto site

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	
------------------------------------------------------------------------------------------------------------	--



4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

PRTR# : W0206 | Facility Name : Padraig Thornton Waste Disposal Ltd | Filename : PRTR W0206\_2014.xls | Return Year : 2014

22/04/2015 11:13

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

POLLUTANT		METHOD			D1				D2				D3				D4				QUANTITY		
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
210	Dust	M	OTH	30 composite sample measured in mg/m2/day using standard method VDI2119	0.036	0.063	0.062	0.04	0.201	0.0	0.0												

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Additional Data Requested from Landfill operators

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) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill: Please enter summary data on the quantities of methane flared and / or utilised	Padraig Thornton Waste Disposal Ltd			
	T (Total) kg/Year	M/C/E	Method Code	Designation or Description
Total estimated methane generation (as per site model)	0.0			
Methane flared	0.0			
Methane utilised in engine/s	0.0			
Net methane emission (as reported in Section A above)	0.0			

Method Used		Facility Total Capacity m3 per hour
Designation or Description		
		N/A
		0.0 (Total Flaring Capacity)
		0.0 (Total Utilising Capacity)
		N/A

4.2 RELEASES TO WATERS [Link to previous years emissions data](#)

| PRTR# : W0206 | Facility Name : Padraig Thornton Waste Disposal Ltd | Filename : PRTR W0206\_2014.xls | Return Year : 2014 |

31/03/2015 11:07

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS **RELEASERS TO WATERS** Data on ambient monitoring of stormsurface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this on Please enter all quantities in this section in KGs

No. Annex II	POLLUTANT	Name	M/C/E	Method Used		T (Total) KG/Year	QUANTITY	
				Method Code	Designation or Description		A (Accidental) KG/Year	F (Fugitive) KG/Year
						0.0	0.0	0.0
					Emission Point 1	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS **RELEASERS TO WATERS**

No. Annex II	POLLUTANT	Name	M/C/E	Method Used		T (Total) KG/Year	QUANTITY	
				Method Code	Designation or Description		A (Accidental) KG/Year	F (Fugitive) KG/Year
						0.0	0.0	0.0
					Emission Point 1	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence) **RELEASERS TO WATERS**

Pollutant No.	POLLUTANT	Name	M/C/E	Method Used		T (Total) KG/Year	QUANTITY	
				Method Code	Designation or Description		A (Accidental) KG/Year	F (Fugitive) KG/Year
						0.0	0.0	0.0
					Emission Point 1	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

[PKY]# W0206 | Facility Name: Pabrig Ingotion Waste Disposal Ltd | Permit No: PKY W0206

31/03/2015 12:08

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER

No. Annex II	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	QUANTITY		
						T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
79	Chlorides (as Cl)	M	PER	Standard method for examination of water and wastewater APHA20th Ed	177.03	177.03	0.0	0.0
13	Total phosphorus	M	PER	Standard method for examination of water and wastewater APHA20th Ed	10.98	10.98	0.0	0.0
76	Total organic carbon (TOC) (as total C or COD/3)	M	PER	Standard method for examination of water and wastewater APHA20th Ed	244.53	244.53	0.0	0.0
71	Phenols (as total C)	M	PER	Standard method for examination of water and wastewater APHA20th Ed	0.021	0.021	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER

Pollutant No	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	QUANTITY		
						T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
303	BOD	M	PER	Standard method for examination of water and wastewater APHA20th Ed	266.92	266.92	0.0	0.0
306	COD	M	PER	Standard method for examination of water and wastewater APHA20th Ed	733.59	733.59	0.0	0.0
240	Suspended Solids	M	PER	Standard method for examination of water and wastewater APHA20th Ed	435.29	435.29	0.0	0.0
238	Ammonia (as N)	M	PER	Standard method for examination of water and wastewater APHA20th Ed	52.752	52.752	0.0	0.0
324	Mineral oils	M	PER	Standard method for examination of water and wastewater APHA20th Ed	13.042	13.042	0.0	0.0
343	Sulphate	M	PER	Standard method for examination of water and wastewater APHA20th Ed	854.77	854.77	0.0	0.0
308	Detergents (as MBAS)	M	PER	Standard method for examination of water and wastewater APHA20th Ed	5.02	5.02	0.0	0.0
347	Total heavy metals	M	PER	Standard method for examination of water and wastewater APHA20th Ed	1.311	1.311	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

[Link to previous years emissions data](#)

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

PRTR# : W0206 | Facility Name : Padraig Thornton Waste Disposal Ltd | Filename : PRTR of W0206\_2013.xlsm | Return Year : 2013

02/04/2015 12:22

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Licence/Permit No of Next Destination Facility		Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used		Haz Waste: Name and Licence/Permit No of Recover/Disposer	Non Haz Waste: Address of Recover/Disposer		
Within the Country	15 01 01	No	32.6	paper and cardboard packaging	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling MDR,WFP-DC-10-0021-01	Unit 51 Henry Road,Parkwest Business Park,Dublin,12,Ireland		
Within the Country	15 01 02	No	4.92	plastic packaging	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling MDR,WFP-DC-10-0021-01	Unit 51 Henry Road,Parkwest Business Park,Dublin,12,Ireland		
Within the Country	15 01 03	No	55.54	wooden packaging	R3	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling Killeen Road,W0044-02	Killeen Road,Ballyfermot,Dublin,10,Ireland		
Within the Country	15 01 04	No	1.38	metallic packaging	R4	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling MDR,WFP-DC-10-0021-01	Unit 51 Henry Road,Parkwest Business Park,Dublin,12,Ireland		
Within the Country	15 01 05	No	1.56	composite packaging	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling MDR,WFP-DC-10-0021-01	Unit 51 Henry Road,Parkwest Business Park,Dublin,12,Ireland		
Within the Country	15 01 07	No	41.1	glass packaging	R13	M	Weighed	Offsite in Ireland	Rehab Glassco Ltd,WFP-KE-08-0357-01	Estate,Naas,Co. Kildare,,Ireland		
Within the Country	15 01 07	No	3.04	glass packaging mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling Killeen Road,W0044-02	Killeen Road,Ballyfermot,Dublin,10,Ireland		
Within the Country	17 09 04	No	113.72	09 02 and 17 09 03	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling Killeen Road,W0044-02	Killeen Road,Ballyfermot,Dublin,10,Ireland		
Within the Country	19 12 02	No	26.48	ferrous metal	R4	M	Weighed	Offsite in Ireland	Hammond Lane,WP98107	Pigeon House Road,,Dublin,,Ireland		
Within the Country	19 12 02	No	3.27	ferrous metal	R4	M	Weighed	Offsite in Ireland	National Recycling/Cummins Metals ,WPR002	,Clondalkin,Dublin 22,22,Ireland		
Within the Country	19 12 10	No	54.96	combustible waste (refuse derived fuel)	R1	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling Killeen Road,W0044-02	Killeen Road,Ballyfermot,Dublin,10,Ireland		
Within the Country	19 12 10	No	2914.36	combustible waste (refuse derived fuel)	R1	M	Weighed	Offsite in Ireland	Lagan Cement ,P0487-05	Kinneagad ,Co west meath ,Co west meath ,?,Ireland		
Within the Country	19 12 10	No	4859.87	combustible waste (refuse derived fuel)	R1	M	Weighed	Offsite in Ireland	Irish Cement ,PO0030-04	Platin,Dulleek,Drogheda,Co Louth ,Ireland		
Within the Country	20 01 01	No	40.3	paper and cardboard	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling MDR,WFP-DC-10-0021-01	Unit 51 Henry Road,Parkwest Business Park,Dublin,12,Ireland		
Within the Country	20 01 11	No	4.68	textiles	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling MDR,WFP-DC-10-0021-01	Unit 51 Henry Road,Parkwest Business Park,Dublin,12,Ireland		
Within the Country	20 01 10	No	1.76	clothes discarded equipment containing	R13	M	Weighed	Offsite in Ireland	Textile Recycling ,Not Applicable	Greenogue Business Park,Saggart,Co Dublin ,?,Ireland		
Within the Country	20 01 23	Yes	28.8	chlorofluorocarbons discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R13	M	Weighed	Offsite in Ireland	ERP Contract,ERP Contract	ERP Contract,,ERP Contract,,Ireland	ERP Contract,,ERP Contract,,Ireland	ERP Contract,,Ireland
Within the Country	20 01 36	No	32.45	01 21, 20 01 23 and 20 01 35	R13	M	Weighed	Offsite in Ireland	ERP Contract,ERP Contract	ERP Contract,,Ireland		
Within the Country	20 01 39	No	16.54	plastics	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling MDR,WFP-DC-10-0021-01	Unit 51 Henry Road,Parkwest Business Park,Dublin,12,Ireland		
Within the Country	20 01 39	No	8.26	plastics	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling Killeen Road,W0044-02	Killeen Road,Ballyfermot,Dublin,10,Ireland		
Within the Country	20 02 01	No	41.62	biodegradable waste	R13	M	Weighed	Offsite in Ireland	Enrich Environmental ,WFPMH-9-0004-01	Newtown,Rathganley,Kilcock ,Co Meath ,Ireland		

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Haz Waste: Name and Licence/Permit No of Recover/Disposer Non	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	20 03 01	No	134.14	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling Killeen Road,W0044-02	Killeen Road,Ballyfermot,Dublin,10,Ireland		
Within the Country	20 03 01	No	1.9	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Bord na Mona Drehid Landfill,W0201-03	Drehid,,Co. Kildare,,Ireland		
Within the Country	20 03 01	No	9.36	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling MDR,WFP-DC-10-0021-01	Unit 51 Henry Road,Parkwest Business Park,Dublin,12,Ireland		
Within the Country	20 01 40	No	1.78	metals	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling MDR,WFP-DC-10-0021-01	Unit 51 Henry Road,Parkwest Business Park,Dublin,12,Ireland		

\* Select a row by double-clicking the Description of Waste then click the delete button