

# **PADRAIG THORNTON WASTE DISPOSAL LTD**

## **DUNBOYNE CIVIC AMENITY AND MATERIALS RECYCLING FACILITY**

**Waste Licence W0206-01**



## **ANNUAL ENVIRONMENTAL REPORT 2017**

**Submitted February 2018**

*Prepared by Eimear Reilly – Environmental Officer*

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## **1. Introduction**

Padraig Thornton Waste Disposal Limited (PTWDL) operates Waste Licence Reg. No. W0206-01 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 Licence, an Annual Environmental Report (AER) for the facility must be submitted to the EPA not later than March 31st of each year for the preceding calendar year. This AER is for the period from the 1<sup>st</sup> January 2017 to 31<sup>st</sup> December 2017.

The contact details for the facility are as follows:

Address: Dunboyne Industrial Estate, Dunboyne, Co. Meath

Telephone: 01 6235133 / 0868241034

Fax: 01 6235131

EPA Site Contact: Eimear Reilly

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

## **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 and access to the facility is via the Dunboyne Industrial Estate.

The surrounding land is predominantly agricultural, with light industrial processes noted to the south east of the site within Dunboyne Industrial Estate. The nearest residential area is Luttrell Hall, which is located approximately 200m southwest of the facility. In 2009, the new R157 was constructed north of the facility and is known locally as the "Dunboyne By-Pass".

The licenced waste handling activities permitted under the Third Schedule<sup>1</sup> and Fourth Schedule<sup>2</sup> of the Waste Management Acts 1996 (as amended) for the facility are detailed in Table 1 overleaf:

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

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

Schedule and Class	Description
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.

*Table 1 Summary of licenced scheduled activities*

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

All waste which entered the Materials Recycling Facility (MRF) was checked and documented at the weighbridge facility in accordance with our waste licence W0206-01 and waste acceptance procedure EP13.

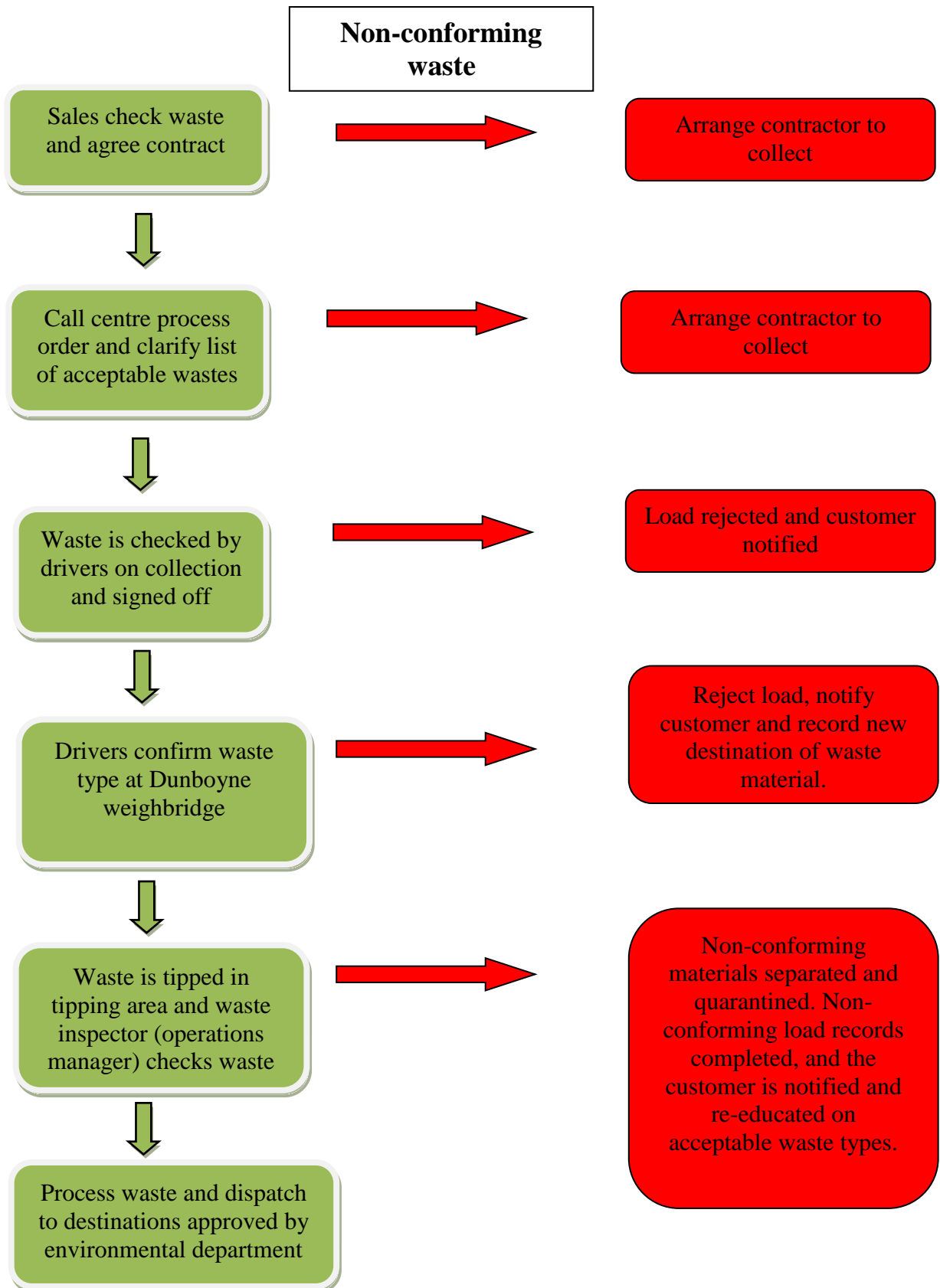
For materials entering the Civic Amenity facility, weights are calculated from bulked loads before they are consigned from the facility.

Thorntons Recycling has 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 electronically at any of the company offices.

#### ***3.1 Waste Acceptance***

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

Figure 1 Non-conforming waste procedure



### 3.2 Materials Received 2017

A total of 48,614.43 tonnes of material was received at the facility during 2017. A summary of the waste accepted are summarised in Table 2 and 3 below:

<b>EWC</b>	<b>Material Received – MRF</b>	<b>Tonnage</b>
03 01 05	Wood Waste Manufacturing	120.52
15 01 03	Wood Packaging	1,969.15
15 01 07	Glass bottles	4.50
16 01 04	Metallic Packaging Tin Steel	5.82
17 01 01	Concrete	858.70
17 01 07	Clean Construction Rubble	37.26
17 02 01	Wood C&D Waste Wood	2,493.69
17 02 03	Mixed Plastic Hard	37.68
17 04 07	Metal Mixed C&D	72.96
17 05 04	Soil and Stone	3,201.29
17 08 02	Plasterboard / gypsum	5.98
17 09 04	Mixed C&D Waste	14,157.71
19 12 02	Ferrous Metal Mixed Steel	110.26
19 12 07	Wood processed or chipped	370.98
20 01 39	Low grade films	0.77
20 02 01	Green Waste	327.93
20 03 01	Mixed Dry Recyclables	0.20
20 03 03	Street Cleaning Residues	764.18
20 03 07	MMW Bulky	22,680.10
21 01 02	Glass	20.94
21 01 38	Municipal Wood	0.50
21 01 39	Mixed packaging	1.00
21 01 40	Metal Clean Stainless Steel	1.00
<b>TOTAL</b>		<b>47,243.12</b>

*Table 2 - Summary of materials accepted at the MRF during 2017*

<b>EWC</b>	<b>Material received – Civic Amenity (CA) site</b>	<b>Tonnage</b>
15 01 02	Mixed Plastic Bottles	2.66
15 01 05	Tetra- Pak	1.48
15 01 01	Cardboard	64.66
20 01 39	Mixed Plastic Film	10.56
20 01 01	Mixed paper	24.80
20 01 10	Clothes Banks	3.32
15 01 07	Glass Packaging (Bottles)	24.60
20 01 36	Mixed WEEE	86.14
16 06 01	Batteries (WT)	5.58
17 09 04	Mixed C&D Waste	290.93
20 01 38	Wood Domestic CA	206.90
20 01 40	Ferrous Metal Mixed Steel	49.42
20 02 01	Green Waste	137.86
20 03 07	Bulky Waste	462.55
<b>TOTAL</b>		<b>1,371.46</b>

*Table 3 - Summary of materials accepted at the civic amenity site during 2017*

### **3.3 Waste Consigned 2017**

A total of 47,647.67 tonnes of material was consigned from the facility during 2017, including the tonnages which came through the CA site. Table 4 below summarises the materials consigned during 2017:

<b>Summary of materials taken off-site</b>	<b>Tonnage</b>
Metals	915.05
Concrete	955.42
Rubble	9,818.54
Wood	5,463.47
Glass Bottles	38.10
Trommel Fines	14,427.42
Mixed Dry Recyclables	162.98
MMW Killeen Road	2,914.48
MMW Landfill	2,614.54
MMW Dublin Waste to Energy	3,253.54
C&D to third parties	275.20
Soil and Stones	5,203.16

Summary of materials taken off-site	Tonnage
WEEE	87.26
Batteries	5.58
Paints	2.76
Other	2.16
Textiles	1.38
Greens	618.29
Street Cleaning Residue	639.94
<b>TOTAL</b>	<b>47,647.67</b>

*Table 4 - Summary of Waste consigned from the site during 2017*

## 4. Dust and Particulate Matter Monitoring

### 4.1 Dust Monitoring

In compliance with Condition 6.1 and Schedule C.6 of waste licence W0206-01, dust deposition monitoring was carried out quarterly at the facility by Odour Monitoring Ireland during 2017 and subsequent reports were forwarded to the EPA.

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. Dust monitoring locations are shown in Appendix 1 of this report. The results of the dust deposition are shown in Table 5 below:

Dust Monitoring Dunboyne					
Monitoring Locations	Quarter 1	Quarter 2	Quarter 3	Quarter 4	ELV (mg/m <sup>2</sup> /day)
D1	140	134	140	145	350
D2	171	165	169	173	350
D3	178	164	161	158	350
D4	159	150	145	149	350

*Table 5 - Dust deposition results for dust monitoring locations during 2017*

The dust deposition results above show that there was no exceedance in the emission limit values for dust deposition at the facility throughout 2017.

### 4.2 Particulate Matter Monitoring

PM10 monitoring at the site ceased in 2014 following agreement with the Agency on the 10<sup>th</sup> October 2014 and no further monitoring has been carried out since this time.



## 5 Noise Monitoring

As the facility only operates during the day, only daytime monitoring is required to be carried out. Monitoring was conducted biannually during 2017 in accordance with Schedule B.4 and C.5 of Waste Licence W0206-01 and the reports forwarded to the EPA as per licence conditions.

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 monitoring locations are contained within Appendix 2 of this report. The 2017 results are tabulated in Table 6 and show the recorded noise levels during the respective noise monitoring periods.

Monitoring Locations	18.05.17			18.10.17			ELV (dB)
	LA, eq (dB)	LA 10 (dB)	LA90(dB)	LA, eq (dB)	LA 10 (dB)	LA90(dB)	
NP1	60.3	63.2	54.6	57.6	59.8	54.1	N/A
NP2	60.2	63	49.5	54.8	56	49.7	N/A
NP3	58.9	61	50.9	60.6	63.6	54	N/A
NP4	57.4	59.6	52.4	58.8	60.8	52.2	N/A
NP5	51.5	54	39	54.4	55.6	49.5	55
NP6	65.8	64.9	46.2	66.9	70.8	50.1	55

*Table 6 - Noise monitoring results for 2017*

Analysis of the 2017 noise monitoring results demonstrates that noise levels at the noise sensitive locations were not adversely impacted upon by the site activities during 2017. Elevated noise readings at noise sensitive receptors NP6 were attributed to passing traffic on an adjacent public road and were not attributed to the site activities.

## 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 the waste licence.

### 6.1 Surface Water monitoring

The waste licence 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. Quarterly monitoring reports have been forwarded to the EPA with detailed explanations of results.

Monitoring point SW3 is the discharge point from the facility to the local drain. The results for 2017 monitoring can be seen in Table 7:

Surface Water 3 - Discharge Pipe							
Monitoring parameters	Units	Quarter 1	Quarter 2	Quarter 2 (resample)	Quarter 3	Quarter 4	EPA Trigger
		15.03.17	23.05.17	15.06.17	02.08.17	07.12.17	
BOD	mg/l	3	8	<2	2	2	
COD	mg/l	5	38	6	6	11	30
Suspended Solids	mg/l	5	19	<5	6	5	25
pH	pH units	7.7	7.4	7.4	7.5	7.6	6 - 9
Orthophosphate (as P)	mg/l	0.7	0.02	0.02	0.02	0.02	
Ammonia as NH <sub>3</sub> -N	mg/l	1.34	0.02	0.26	0.31	0.05	
Visual inspection	Log maintained on site						

*Table 7 - Surface water monitoring results at SW3 for 2017*

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).

As outlined in Table 7, an elevated reading for COD was obtained in quarter 2 (38mg/l), however following a resample, this reading was 6mg/l, within the trigger value of 30mg/l.

## 6.2 Foul Water Monitoring

In accordance with Schedule B and C, emissions to sewer must be monitored on a quarterly basis and resulting reports were submitted to the EPA. Heavy metals are only required to be analysed on a biannual basis but were analysed three times throughout 2017 as detailed in Table 8.

Monitoring parameters	Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Trigger values
		15.03.17	14.06.17	17.07.17	07.12.17	mg/l
BOD	mg/l	50	2	112	19	1000
COD	mg/l	260	8	397	58	3000
Suspended Solids	mg/l	261	14	221	51	1000
pH	pH units	-	-	7.5	7.8	6 - 10
Phosphorus (as P)	mg/l	1.52	0.1	3.5	1.14	20
Nitrates (as NO <sub>3</sub> )	mg/l	6.42	5	5	5	100
Total Ammonia	mg/l	0.02	0.37	8.86	7.62	10
Mineral Oils	mg/l	0.587	0.083	0.2	0.608	20
Sulphates (as SO <sub>4</sub> )	mg/l	128.76	74.3	170.1	63	1000
Detergents MBAS	mg/l	0.2	0.5	0.2	0.4	20
Phenols	mg/l	0.005	0.005	0.005	0.005	0.1

Monitoring parameters	Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Trigger values
		15.03.17	14.06.17	17.07.17	07.12.17	mg/l
Chloride	mg/l	21.9	19.2	37.2	20.2	250
Dissolved Zinc	µg/l	0.107	<0.018	0.023		-
Dissolved Mercury	µg/l	-	-	<0.0001		-
Dissolved Arsenic	µg/l	-	-	<0.0001		-
Dissolved Cadmium	µg/l	0.0015	<0.0006	<0.0006		-
Dissolved Chromium	µg/l	0.002	<0.002	<0.002		-
Dissolved Copper	µg/l	0.034	<0.009	0.041		-
Dissolved Lead	µg/l	-	-	<0.006		-
Dissolved Nickel	µg/l	0.007	0.003	<0.003		-
Dissolved Selenium	µg/l	-	-	<0.0008		-

*Table 1 - Heavy Metal Results for Foul Water 2017*

These trigger levels set by the EPA were also used to compare quarterly samples during 2017. In 2017, there were no exceedances of these limits.

## 7. Resource Consumption Summary

This section details the resources used by the facility during the period of 1<sup>st</sup> January 2017 to the 31<sup>st</sup> December 2017. Resources that were monitored include fuels, water and Electricity.

### 7.1 Water

In 2017, 4,105m<sup>3</sup> of foul water was discharged from the site at FW1, as measured from the continuous Magflo meter located at the discharge point. Water discharged to sewer originates from on-site toilets, showers, offices, truck wash, wheel wash, bin wash and washing down the MRF floors.

A total of 6,569m<sup>3</sup> was discharged to the surface water drain adjacent to the northern boundary of the facility during 2017. The surface water discharge point is SW3 and discharges are recorded on the continuous Magflo meter located at the discharge point. Water discharged to surface water consists of clean runoff from the buildings roofs and hardstanding areas in the yard. Surface water discharges pass through an oil interceptor and silt trap prior to discharging to the surface water drain.

A summary of the discharges to sewer and surface water drain are outlined in Table 9 overleaf:

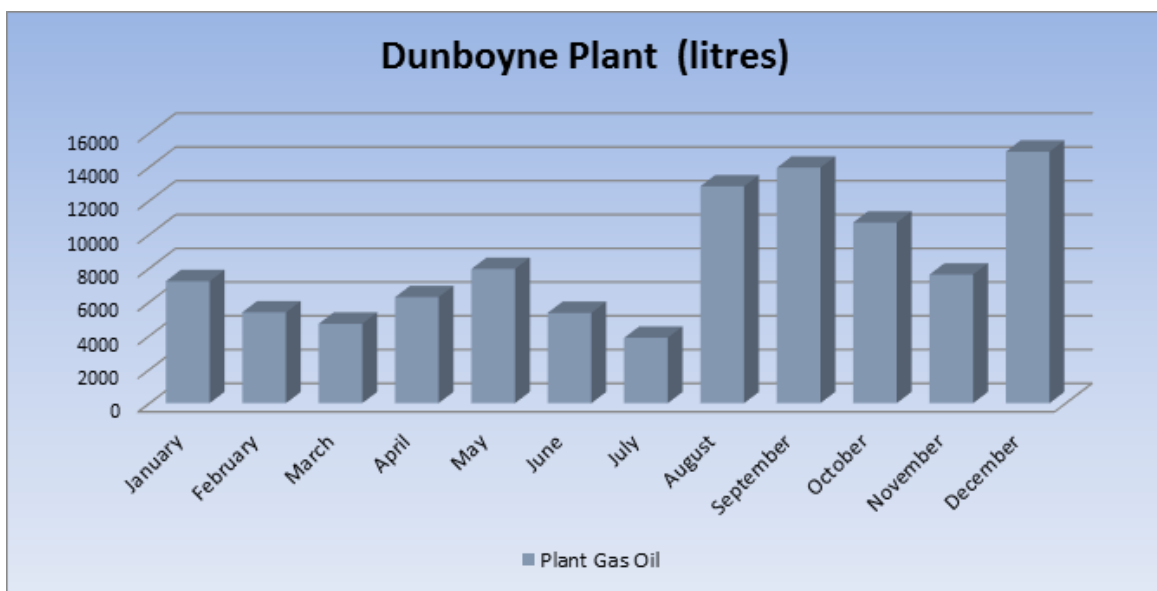
Water discharges	Unit	2015	2016	2017
Foul	m <sup>3</sup>	3,982	3,873	4,105
Surface	m <sup>3</sup>	8,264	6,744	6,569

*Table 2 - Foul and Surface Water discharges from 2015-2017*

### 7.2 Diesel

Plant diesel is used onsite for the loading shovels, fuchs and the generator powering the processing line. In total 100,8145L of plant diesel (Gas Oil) was delivered to the facility in 2017.

**Figure 2 Monthly consumption of plant gas oil at Dunboyne during 2017**



From Figure 2, it can be seen that peak diesel usage at the site was in December. The usage ranges from 3,875L per month to 14,900L per month throughout the year.

### 7.3 Electricity

Thorntons Recycling has implemented an energy management programme on all its licensed sites, which aims to reduce energy consumption. Table 10 displays the annual usage of electricity from 2015-2017:

Year	Day k/Wh	Night k/Wh
2015	66,502	20,220
2016	78,300	21,120
2017	102,960	25,800

*Table 3 - Comparison of Electricity usage between 2015- 2017*

## **8 Complaints Summary**

There were five complaints received at the facility during 2017; one unverified complaint relating to litter and the remaining four complaints related to noise emissions from the site.

All complaints are managed and recorded through Thorntons Recycling ISO accredited integrated management system (IMS) and specifically procedure PM08 for managing complaints across the company.

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

Thorntons Recycling IMS is accredited to ISO 14001 Environmental, OHSAS 18001 Health and Safety and ISO 9001 Quality. The content of the IMS is too large to be included in this report, but can be accessed at site offices, if required.

The Schedule of Environmental Objectives and Targets and the Environmental Management Programme for 2017 are maintained within the IMS. A copy of the proposed schedule of objectives and targets for 2018 can be found in Appendix 5. The Schedule of Objectives and Targets 2018 may be amended and finalised after the management review in February 2018. A summary of the objectives and targets achieved during 2017 can be found in Appendix 6.

## **10 Bund and Pipeline Inspection Report**

### ***10.1 Bunding***

During 2017, Thorntons Recycling commissioned Fehily, Timoney and Company to conduct integrity testing on the bunds at the Dunboyne facility as per condition 6.7 of the waste licence.

All three bunds passed and certificates confirming their integrity are provided in Appendix 7 to this report. Bunds are due to be retested in 2020.

### ***10.2 Pipeline Testing***

The integrity and water tightness of all underground pipes and tanks and their resistance to penetration is carried out every 3 years as per Condition 6.7 of the waste licence.

Thorntons Tankering Service (TTS) completed a survey on all drains at the Dunboyne facility during 2017. The final report was submitted to the EPA in November 2017. Integrity testing of underground pipelines is required to be carried out next in 2020.

## **11 Reported Incidents Summary**

There was one incident reported to the EPA in 2017 relating to an elevated surface water result for COD. Following a resample of the discharge, the COD reading was reduced and well within the trigger values for all parameters. The elevated COD reading was considered to be an anomaly result.

## **12 Odour Management Programme**

The type of waste accepted on this site is non-putrescible in nature and would have a very low risk of generating odour emissions. No odour complaints were received at the facility during 2017.

## **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. (see section 7 above). 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**

Complete Pest Control are contracted to carry out pest control at the facility. Overall pest activity in 2017 was very low and a copy of the pest control programme and site visit reports can be viewed on site.

## **15 Progress to Minimise Water usage and 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

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 have 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 licence permits a maximum of 30m<sup>3</sup>/day to be discharge into the foul water. This equates 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 4,105m<sup>3</sup> was discharged from the facility during 2017.

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

The main demand on water is related to washing of skip trucks. 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.

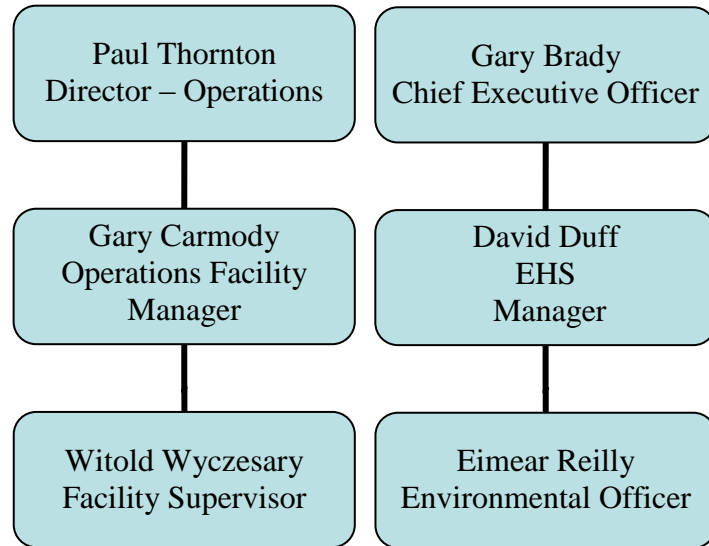
## **16 Financial Provision, Site Management structure and Public Information**

### *16.1 Financial Provision*

Padraig Thornton Waste Disposal Ltd (PTWDL) is insured for Employers Liability, Public/Products Liability and Motor Insurance. PTWDL is insured under public liability for €13 million for sudden and accidental pollution incidents and a summary of the insurance policy is detailed in Appendix 4.

An Environmental Liabilities Risk Assessment and a Decommissioning Management Plan were submitted to the Agency in 2016 and once approved will form the basis of financial provision bonds.

## 16.2 Site Management Structure 2017



## 16.3 Program of Public Information

Thorntons operates an open door policy and 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 or at EPA offices.

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.

Thorntons Recycling website has a compliance section which customers can access, key environmental information such as waste collection permit details and waste licences and facility permits 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.

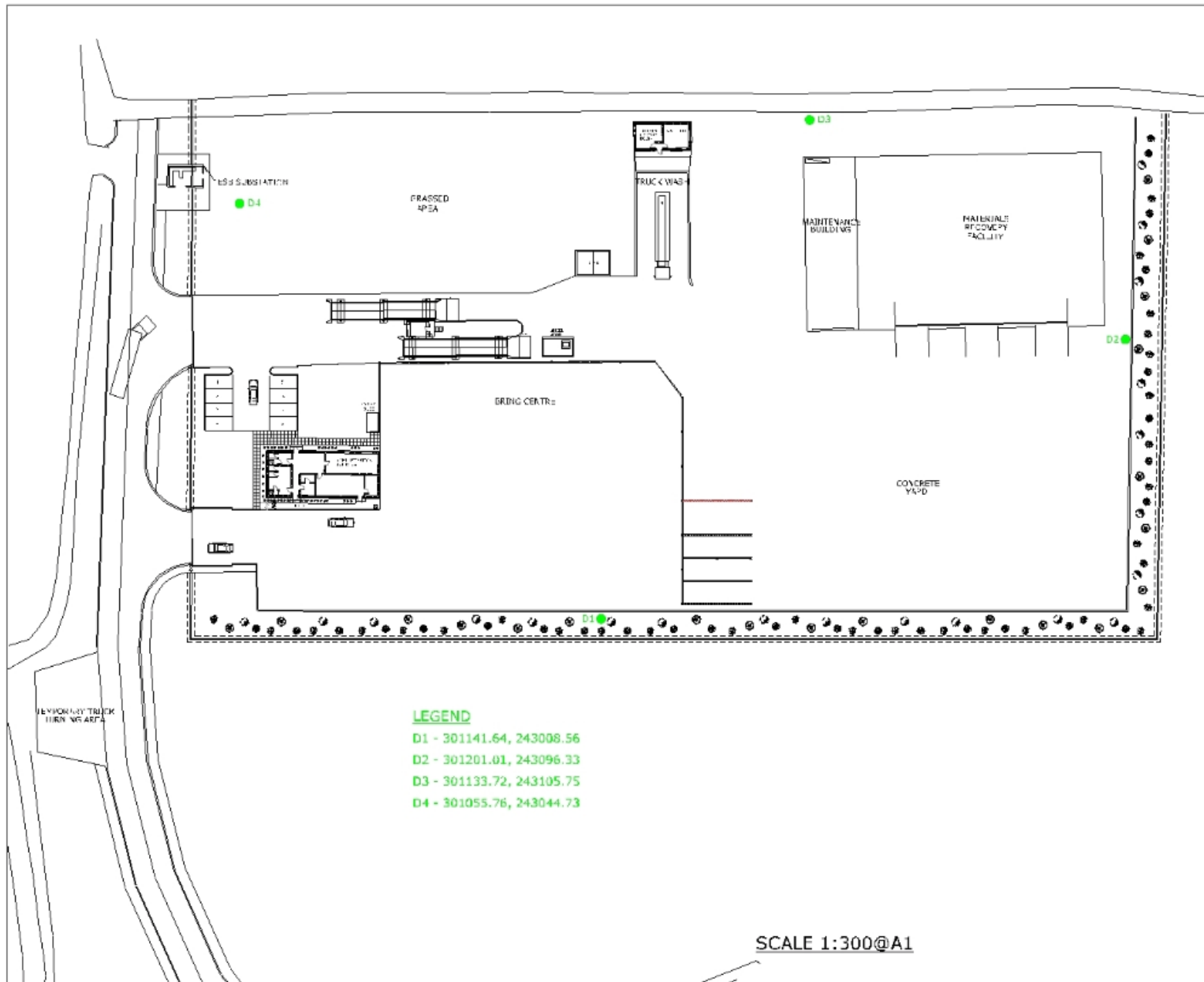
## 17 Environmental Liabilities

An Environmental Liabilities Risk Assessment was submitted to the Agency on the 18<sup>th</sup> August 2016 but has not yet been approved.



## **APPENDIX 1 - Dust monitoring locations**

NOTES:



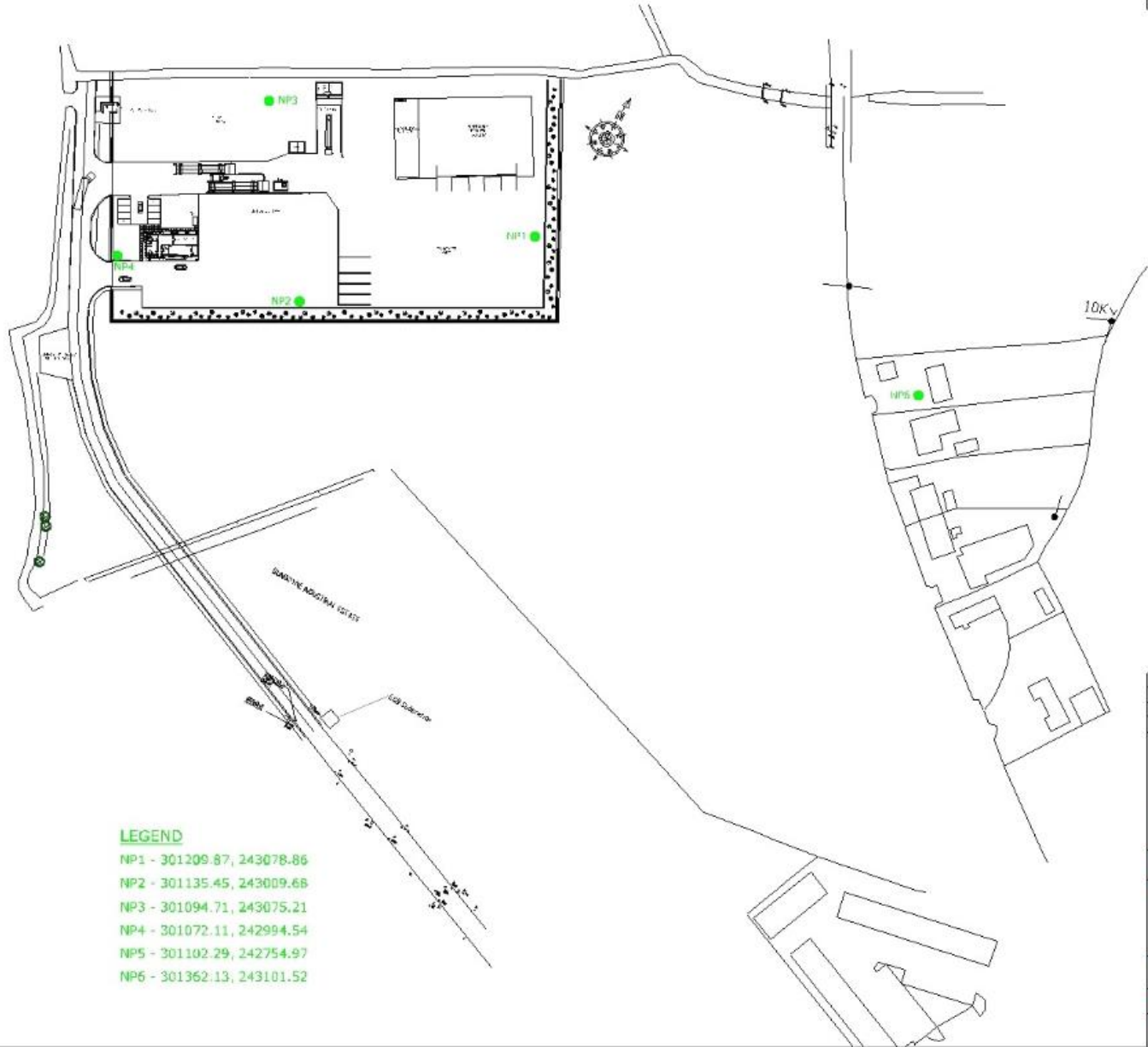
- LEGEND**
- D1 - 301141.64, 243008.56
  - D2 - 301201.01, 243096.33
  - D3 - 301133.72, 243105.75
  - D4 - 301055.76, 243044.73

SCALE 1:300@A1

DATE	REV	BY	CHKD BY
<b>KILLEEN ROAD, DUBLIN 10</b> TEL: - 6235133 FAX: - 6235131 <a href="http://www.thorntons-recycling.ie">www.thorntons-recycling.ie</a>			
<b>AS BUILT</b>			
SITE LAYOUT DUNBINE RECYCLING CENTER SHOWING DUST MONITORING POINT LOCATIONS			
Scale	Date	Drawing Code	
AS SHOWN	05/10/05	A1	
Job No.	Client No.	Drawn By	
05	7	BMC	
Drawing Number	Date		Rev
01-7-22	01-7-22		1

## **APPENDIX 2 - Noise monitoring locations**

NOTES:



- 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

NO. OF MONITORS	06	SECTION	7
INDICATING LOCATION POSITION	06	SECTION	1
DATE	01	06	01



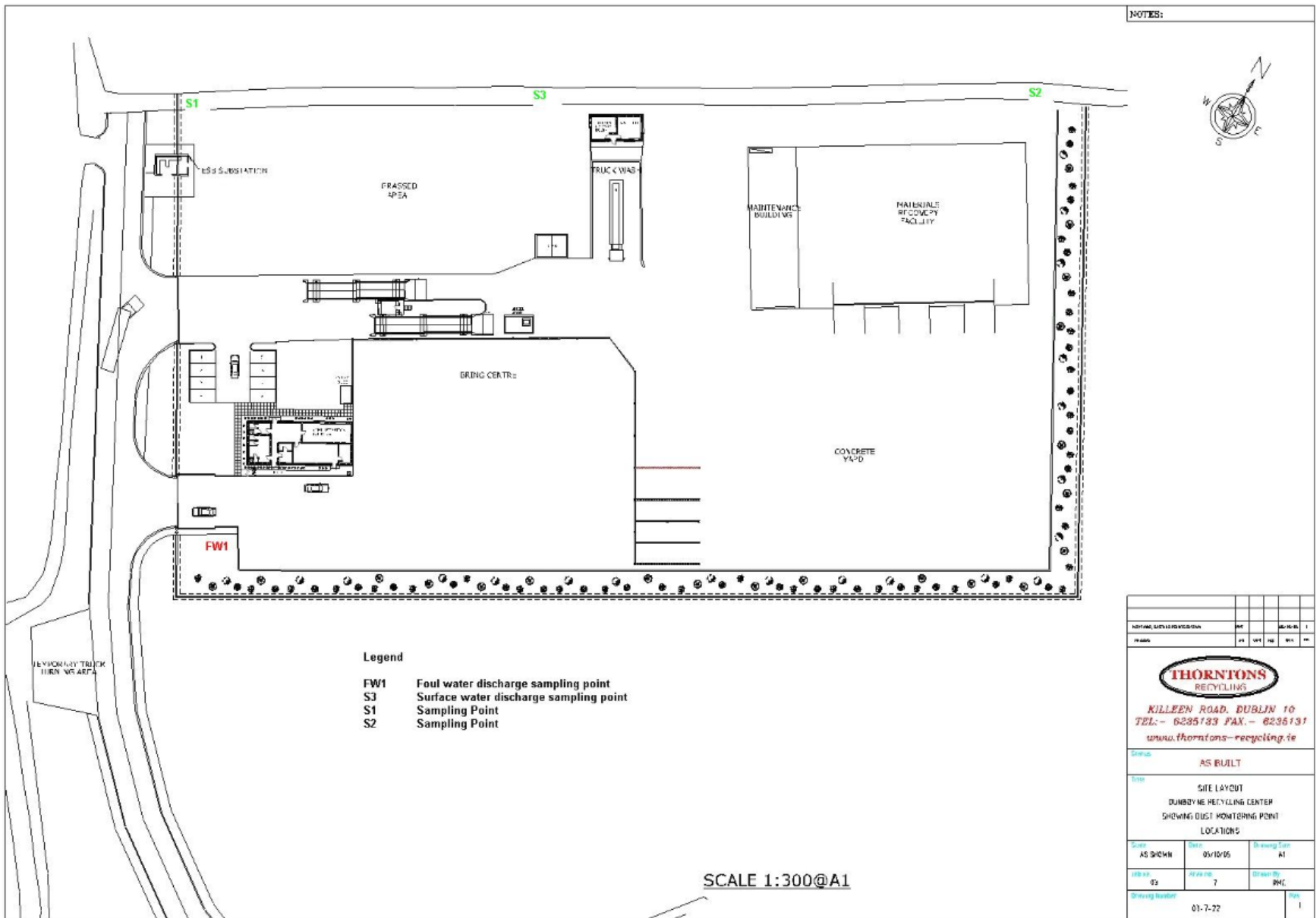
**KILLEN ROAD, DUBLIN 10**  
 TEL: - 6235133 FAX - 6235131  
 www.thorntons-recycling.ie

Status: AS BUILT

Title: SITE LAYOUT  
 DUNBYE RECYCLING CENTER  
 SHOWING NOISE MONITORING POINT  
 LOCATIONS

Scale:	NTS	Date:	05/10/05	Drawing Code:	A1	
Job No:	03	Revision:	7	Drawn By:	BM	
Drawing Number:	01-7-24				Page:	7

## **APPENDIX 3 – Surface and Foul water monitoring locations**



NOTES:



DATE				
NO. OF SHEETS	REV	NO.	DATE	BY
1				
 <b>THORNTONS</b> RECYCLING KILLEEN ROAD, DUBLIN 10 TEL: - 6235133 FAX: - 6235131 www.thorntons-recycling.ie				
<b>AS BUILT</b>				
SITE LAYOUT DUNBOYNE RECYCLING CENTER SHOWING DUST MONITORING POINT LOCATIONS				
Scale	Date	Drawn by		
AS SHOWN	05/10/05	AT		
Sheet	Of No. of	Drawn by		
03	7	BMC		
Drawing Number				Rev.
01-7-22				1

## **APPENDIX 4 – Summary of Insurance**

30<sup>th</sup> June 2017

**To Whom It May Concern**

**Confirmation of Insurance Cover**

**Our Client: Padraig Thornton Waste Disposal Ltd and Subsidiary Companies**

**We act as Insurance Brokers to the above client and confirm that the following insurance has been arranged on their behalf.**

Insurance Type : Combined Liability

Period : 01 July 2017 to 30 June 2018

Business Description : Domestic, Industrial and Commercial Waste Collection, Recycling and Disposal (Including:- Liquid Waste for Local Authorities) Management and Operation of Bring centre and Property Owners (including:- some building work), Composting, End of Life Vehicle Processing, Maintenance of Own Vehicles and Contractors Vehicles used on the business of the insured and Property Owners (Including some building work)

Public Liability  
Limit of Indemnity : €13,000,000 any one occurrence or series of occurrences arising from any one originating cause including costs and expenses

Products/Pollution  
Limit of Indemnity : €13,000,000 in all during the period

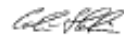
Employers Liability  
Limit of Indemnity : €20,000,000 any one occurrence or series of occurrences arising out of one originating cause

Insurers : QBE Casualty Syndicate 386

Policy Number : AA1565681

Risk Reference : PADR05

Yours sincerely,



Colin Hehir  
Account Executive  
JLT Ireland  
Direct Dial: 01 202 6053  
Mobile: 087 2167055  
Email: [chehir@jlt.ie](mailto:chehir@jlt.ie)

Cont...





This document does not confer upon the addressee, recipient or holder any rights in the insurance nor does it set out the full terms, clauses, conditions, limits and exclusions of the Insurance. These statements have been made in good faith and are a summary of the insurance cover in force as at the date of this letter (which insurance remains subject to the full terms and conditions of the subscribing insurers' policy), although the Limit of Indemnity may have been impaired by incurred claims and therefore may vary from the amount shown. 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 expenses thereby occasioned to any recipient of this letter. The information contained in this letter should be treated as confidential.

Should the insurance cover be cancelled, assigned or changed in any way during the period of insurance, neither we nor the subscribing insurer(s) accept any obligation to notify any recipient of this letter.

The subscribing insurers' obligations under contracts of insurance to which they subscribe are several and not joint and are limited solely to the extent of their individual subscriptions. The subscribing insurers are not responsible for the subscription of any co-subscribing insurer who for any reason does not satisfy all or part of its obligations.

Notwithstanding the issuance of this letter we are and remain solely the agent of our Client in this matter and owe no duties to any recipient of this letter.

## **APPENDIX 5 – Schedule of Objectives and Targets 2018**

## PM03- F01 Management Programme 2018

PM03- F01 Management Programme 2018								
COMPLETED		ON HOLD CARRY FORWARD TO 2019				ON HOLD		
Ref Numbr	Date	Type	Objective and Target	Location	Responsibility	Method	Time Frame	Status
EP 01	May-17	Environmental	Changeover to 14001 new standard	All sites	GC	1. Gap analysis carried out by external consultant. 2. Create context spreadsheet. 3. Training managers and staff. 4. Review ISO layout. 5. Re certification	May-18	
EP 02	Feb-17	Environmental	ELRA and Cramp Costing Approval	Dunboyne	DD	1. Liaise with the EPA and agreed costings and put bond in place	Dec-17	On Hold awaiting EPA contact firstly
EP 04	Jan-18	Environmental	Replacement of WIMS with ISYS across the company	All Sites	DD	1. Sub group within Thorntons representing each department set up to implement the changeover	Jun-18	
EP 06	Jan-18	Environmental	Hard copy files of historic cleaning schedules, daily checks and weekly checks to be scanned and filed electronically. Also new process for ensuring records are scanned going forward	Dunboyne	AOS/ER	1. Set up electronic filing system on the Environmental Drive. 2. Scan historic records. 3. Shred hard copies. 4. Maintain updated each year at year end.	Mar-18	

## **APPENDIX 6 – Review of Objectives and Targets 2017**

### PM03- F01 Management Programme 2017

COMPLETED		ON HOLD CARRY FORWARD TO 2018			ON HOLD			
Ref Number	Date	Type	Objective and Target	Location	Responsibility	Method	Time Frame	Status
EP 06	Jan-17	Environmental	Waste Storage Plan Condition 8.14	Dunboyne	GC	1. Review requirements with operations. 2. Draft plan. 3. Circulate for comments. 4. Create final copy. 5. Submit final plan	Jun-17	Completed
EP 07	Jan-17	Environmental	Site Bund testing	Dunboyne	GC	1. Tender for Bund testing. 2. Select consultant. 3. Schedule and monitor work. 4. Review report. 5. Submit report to EPA	Dec-17	Completed -
EP 08	Jan-17	Environmental	CCTV survey on drains	Dunboyne	GC	Arrange with TTS to complete CCTV survey by end of year	Dec-17	Completed in November 2017
EP 09	Jan-17	Environmental	Site policy documents for Dunboyne to be created. 1. Fire risk, accident prevention, site improvement, stock pile management	Dunboyne	GC	Site policy documents to mirror the same ones that are in place for Killeen road	Apr-17	Site improvement document updated. Accident prevention included in the revised ERP. Fire risk included as part of the fire risk assessment and stock pile management included as part of the storage plan.
EP 10	Jan-17	Environmental	Circulate waste profiling form to all third parties tipping on site.	Dunboyne	GC	1. Send to all third parties tipping on site. 3. Follow up to get completed forms returned. 4. File on x drive and update tracker.	Dec-17	Completed, however not all returned. Ongoing process.
EP 15	May-17	Environmental	Change over to 14001 new standard	All sites	GC	1. Gap analysis carried out by external consultant. 2. Create context spreadsheet. 3. Training managers and staff. 4. Review ISO layout. 5. Re-certification	Dec-17	Ongoing- due for completion in Q2 of 2018
EP 17	Feb-17	Environmental	ELRA and Cramp Costing Approval	Dunboyne	DD	1. Liaise with the EPA and agreed costings and put bond in place	Dec-17	On Hold awaiting EPA contact firstly

## **APPENDIX 7 – Bund test certificates**



### Record Sheet for Bund Test

<b>Company:</b> Padraig Thornton Waste Disposal Ltd.	<b>IPC Reference No:</b>
<b>Site:</b> Dunboyne Industrial Estate Dunboyne, Co Meath	<b>IPC Category</b> -----
<b>Bund Ref. No:</b> Kerosene Heating oil tank bund	<b>Bund Type – Local, Remote, Combined:</b> Local
<b>Bund Location:</b> The bund is located beside main office	<b>Bund Risk Classification 1,2, or 3:</b> -----
<b>Bund Dimensions:</b> 0.946m deep x 2.45m long x 2.25m wide	<b>Primary Vessel(s) – Materials of Construction:</b> 1.36m <sup>3</sup> plastic heating oil Tank
<b>Bund Materials of Construction:</b> Built masonry blocks with plaster finish to internal and external faces.	<b>Primary Vessel(s) – Total Storage Volume:</b> 1.36m <sup>3</sup> max
<b>Bund Lining Material:</b> Plastered blocks with applied "Sulfitex" Grout and "Kiesol" hydrophobic sealer	<b>Primary Vessel(s) – 110% of Volume of Largest Vessel:</b> 1.52 m <sup>3</sup>
<b>Bund Retention Volume (Local/Remote):</b> Local = 5.21 m <sup>3</sup>	<b>Primary Vessel(s) – 25% of Total Storage Volume</b> 0.34 m <sup>3</sup>
<b>Deemed practicable/safe to conduct hydrostatic test? Yes/No</b>  YES (see note below)	
<b>If no, give reasons:</b>	
<b>Description and Results of Hydrostatic Test:</b>	<b>Date of Hydrostatic test:</b> Start on 29 August 2017
Partial Hydrostatic Test (full hydrostatic test not possible due to site operational reasons) 29 <sup>th</sup> August 2017 Bund visually inspected, filled with test water to 0.457m 30 <sup>th</sup> August 2017 Depth of Test Water 0.453m 31 <sup>st</sup> August 2017 Depth of Test Water 0.453m Taking into account size of surface area and evaporation, the bund is deemed to have passed inspection <b>Test Result - Pass</b>	
<b>Description and Results of Visual Inspection:</b>	<b>Date of Visual Inspection:</b> 29-31 August 2017
No obvious defects evident, no repairs required.	



**Recommendations:**

It is recommended that the bund be cleaned out thoroughly upon emptying and that the test water is suitably disposed of.

**Signed:**

  
\_\_\_\_\_  
For and on behalf of Fehily Timoney & Co.

**Title/Position:**

BE, CEng, Project Engineer

**Date:**

01 September 2017

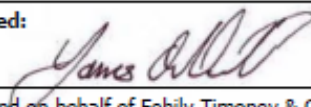




### Record Sheet for Bund Test

<b>Company:</b> Padraig Thornton Waste Disposal Ltd.	<b>IPC Reference No:</b>
<b>Site:</b> Dunboyne Industrial Estate Dunboyne, Co Meath	<b>IPC Category</b> -----
<b>Bund Ref. No:</b> Bund 3: Marked Diesel Tank bund	<b>Bund Type – Local, Remote, Combined:</b> Local
<b>Bund Location:</b> The bund is located beside main MRF processing shed on site	<b>Bund Risk Classification 1,2, or 3:</b> -----
<b>Bund Dimensions:</b> 0.62m deep x 4.5m long x 2.1m wide	<b>Primary Vessel(s) – Materials of Construction:</b> 5m <sup>3</sup> steel marked diesel oil Tank
<b>Bund Materials of Construction:</b> The bund is constructed of poured in-situ concrete	<b>Primary Vessel(s) – Total Storage Volume:</b> 5 m <sup>3</sup> max
<b>Bund Lining Material:</b> Applied "Sulfitex" Grout and "Kiesol" hydrophobic sealer	<b>Primary Vessel(s) – 110% of Volume of Largest Vessel:</b> 5.5 m <sup>3</sup>
<b>Bund Retention Volume (local/Remote):</b> Local = 5.859 m <sup>3</sup>	<b>Primary Vessel(s) – 25% of Total Storage Volume</b> 1.25 m <sup>3</sup>
<b>Deemed practicable/safe to conduct hydrostatic test? Yes/No</b>  YES (see note below)	
<b>If no, give reasons:</b>	
<b>Description and Results of Hydrostatic Test:</b>	<b>Date of Hydrostatic test:</b> Start on 21 November 2017
Partial Hydrostatic Test (full hydrostatic test not possible due to site operational reasons) 21 <sup>st</sup> November 2017 Depth of Test Water 0.528m 22 <sup>nd</sup> November 2017 Depth of Test Water 0.527m 23 <sup>rd</sup> November 2017 Depth of Test Water 0.527m  Taking into account size of surface area and evaporation, the bund is deemed to have passed inspection <b>Test Result - Pass</b>	
<b>Description and Results of Visual Inspection:</b>	<b>Date of Visual Inspection:</b> 21-23 November 2017
No obvious defects evident, no repairs required. Visual Inspection during test period highlighted repair work carried out along western bund face.	




<b>Recommendations:</b> It is recommended that the bund be emptied and the test water suitably disposed of.		
<b>Signed:</b>  For and on behalf of Fehily Timoney & Co.	<b>Title/Position:</b> BE, CEng, Project Engineer	<b>Date:</b> 24 November 2017



## Record Sheet for Bund Test

<b>Company:</b> Padraig Thornton Waste Disposal Ltd.	<b>IPC Reference No:</b>
<b>Site:</b> Dunboyne Industrial Estate Dunboyne, Co Meath	<b>IPC Category</b> -----
<b>Bund Ref. No:</b> Bund 2: Road Diesel Storage bund	<b>Bund Type – Local, Remote, Combined:</b> Local
<b>Bund Location:</b> The bund is located near the weighbridge office building	<b>Bund Risk Classification 1,2, or 3:</b> -----
<b>Bund Dimensions:</b> 2.772m deep x 5.495m long x 3.970m wide	<b>Primary Vessel(s) – Materials of Construction:</b> 30m <sup>3</sup> steel diesel oil tank
<b>Bund Materials of Construction:</b> The bund is constructed of pored insitu concrete	<b>Primary Vessel(s) – Total Storage Volume:</b> 30 m <sup>3</sup> max
<b>Bund Lining Material:</b> Bund was recently recoated with sealant, "Sulfitex" Grout and "Kiesol" hydrophobic sealer	<b>Primary Vessel(s) – 110% of Volume of Largest Vessel:</b> 33 m <sup>3</sup>
<b>Bund Retention Volume (local/Remote):</b> Local = 60.47 m <sup>3</sup>	<b>Primary Vessel(s) – 25% of Total Storage Volume</b> 7.5 m <sup>3</sup>
<b>Deemed practicable/safe to conduct hydrostatic test? Yes/No</b> YES (see note below)	
<b>If no, give reasons:</b>	
<b>Description and Results of Hydrostatic Test:</b>	<b>Date of Hydrostatic test:</b> Start on 18 December 2017
<p>Partial Hydrostatic Test (full hydrostatic test not possible due to site operational reasons)</p> <p>18<sup>th</sup> December 2017 Bund visually inspected, filled with test water to 1.790m</p> <p>19<sup>th</sup> December r 2017 Depth of Test Water 1.790m</p> <p>20<sup>th</sup> December 2017 Depth of Test Water 1.790m</p> <p>The total drop in level (0 mm), after allowing for Evaporation and rainfall, exceeded 1/500th of the average water depth of the full tank.</p> <p>Taking into account size of surface area and evaporation, the bund is deemed to have passed inspection</p> <p><b>Test Result - Pass</b></p>	
<b>Description and Results of Visual Inspection:</b>	<b>Date of Visual Inspection:</b> 18 <sup>th</sup> -20 <sup>th</sup> December 2017
No obvious defects evident, no repairs required. Visual Inspection during test period highlighted repair work carried out inside the bund.	



<b>Recommendations:</b> It is recommended that the bund be emptied and the test water suitably disposed of.		
<b>Signed:</b>  For and on behalf of Fehily Timoney & Co.	<b>Title/Position:</b>  BE, CEng, Project Engineer	<b>Date:</b>  20 <sup>th</sup> December 2017

**APPENDIX 8 – Pollution Release and  
Transfer Register (PRTR)  
2017**



Environmental Protection Agency

| PRTR#: W0206 | Facility Name: Padraig Thornton Waste Disposal Ltd | Filename: W0206\_2017 PRTR.xls | Return Year: 2017 |

[Guidance to completing the PRTR workbook](#)

# PRTR Returns Workbook

Version 1.1.19

<b>REFERENCE YEAR</b>	2017
-----------------------	------

## 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	-8.47927 53.4281
River Basin District	IEEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
<b>AER Returns Contact Name</b>	Eimear Reilly
<b>AER Returns Contact Email Address</b>	Eimear@thorntons-recycling.ie
<b>AER Returns Contact Position</b>	Environmental Officer
<b>AER Returns Contact Telephone Number</b>	01 6235133
<b>AER Returns Contact Mobile Phone Number</b>	086 7911688
<b>AER Returns Contact Fax Number</b>	01 6235131
<b>Production Volume</b>	50000.0
<b>Production Volume Units</b>	Tonnes
<b>Number of Installations</b>	1
<b>Number of Operating Hours in Year</b>	1624
<b>Number of Employees</b>	4
<b>User Feedback/Comments</b>	
<b>Web Address</b>	

## 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?	No
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)?	
---	--

This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASERS TO AIR		METHOD			QUANTITY		
POLLUTANT		Method Used			Emission Point 1		
No. Annex II	Name	M/C/E	Method Code	Designation or Description	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					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 AIR		METHOD			QUANTITY		
POLLUTANT		Method Used			Emission Point 1		
No. Annex II	Name	M/C/E	Method Code	Designation or Description	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					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 AIR		METHOD				QUANTITY					
POLLUTANT		Method Used				Emission Point 1					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	D1	D2	D3	D4	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
210	Dust	M	OTH	30-day composite sample measured in mg/m <sup>2</sup> /day using standard method	0.05100875	0.0618675	0.05031625	0.05502375	0.22821625	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 (CH<sub>4</sub>) emission to the environment under T (total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill:

Padraig Thornton Waste Disposal Ltd

Please enter summary data on the quantities of methane flared and / or utilised

	T (Total) kg/Year	M/C/E	Method Used		Facility Total Capacity m <sup>3</sup> per hour
			Method Code	Designation or Description	
Total estimated methane generation (as per site model)	0.0				N/A
Methane flared	0.0				0.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

[ PRTR# : W0206 | Facility Name : Padraig Thornton Waste Disposal Ltd | Filename : W0206\_2017 PRTR.xls | Return Year : 2017 ]

08/02/2018 08:09

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

POLLUTANT		RELEASES TO WATERS			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
						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		RELEASES TO WATERS			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
						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		RELEASES TO WATERS			Please enter all quantities in this section in KGs			
Pollutant No.	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
						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](#)

| PRTR# : W0206 | Facility Name : Padraig Thornton Waste Disposal Ltd | Filename : W0206

13/02/2018 08:49

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs				
POLLUTANT		METHOD			QUANTITY				
No. Annex II	Name	M/C/E	Method Used		FW1		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description	Emission Point 1	Emission Point 2			
79	Chlorides (as Cl)	M	ALT	APHA P281	101.09	101.09	0.0	0.0	0.0
13	Total phosphorus	M	ALT	APHA P207	6.42	6.42	0.0	0.0	0.0
76	Total organic carbon (TOC) (as total C or COD/3)	M	OTH	COD/3	247.33	247.33	0.0	0.0	0.0
71	Phenols (as total C)	M	ALT	APHA	0.02	0.02	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 POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs				
POLLUTANT		METHOD			QUANTITY				
Pollutant No.	Name	M/C/E	Method Used		FW1		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description	Emission Point 1	Emission Point 2			
303	BOD	M	ALT	APHA P280	187.8	0.0	187.8	0.0	0.0
306	COD	M	ALT	APHA P210	741.98	0.0	741.98	0.0	0.0
240	Suspended Solids	M	ALT	APHA P202	561.36	0.0	561.36	0.0	0.0
238	Ammonia (as N)	M	ALT	APHA P281	17.31	0.0	17.31	0.0	0.0
324	Mineral oils	M	ALT	APHA	1.52	0.0	1.52	0.0	0.0
343	Sulphate	M	ALT	APHA P243	447.61	0.0	447.61	0.0	0.0
308	Detergents (as MBAS)	M	ALT	APHA P245	1.33	0.0	1.33	0.0	0.0
347	Total heavy metals	M	ALT	APHA	0.000377865	0.0	0.000377865	0.0	0.0

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

[ PRTR# : W0206 | Facility Name : Padraig Thornton Waste Disposal Ltd | Filename : W0206\_2017 PRTR.xls | Return Year : 2017 ]

08/02/2018 09:02

Please enter all quantities on this sheet in Tonnes

0

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 Non-Haz Waste: Name and Licence/Permit No of Recover/Disposer	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	15 01 01	No	64.66	paper and cardboard packaging	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling MDR,WFP-DC-10-0021-02	Unit 51 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	15 01 02	No	3.22	plastic packaging	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling MDR,WFP-DC-10-0021-02	Unit 51 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	15 01 04	No	1.16	metallic packaging	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling MDR,WFP-DC-10-0021-02	Unit 51 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	15 01 05	No	1.48	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	15.7	glass packaging	R5	M	Weighed	Offsite in Ireland	Rehab Glassco Ltd,WFP-KE-08-0357-01	Estate, Naas, Co. Kildare, Ireland		
Within the Country	16 05 05	No	2.16	gases in pressure containers other than those mentioned in 16 05 04	R4	M	Weighed	Offsite in Ireland	Calor Gas, N/A	Long Mile Road, Dublin 12, Ireland		
To Other Countries	17 02 01	No	1130.94	wood	R13	M	Weighed	Abroad	McKinstry Skip Hire Ltd, LN/16/16	United Kingdom		
Within the Country	17 04 11	No	7.74	cables other than those mentioned in 17 04 10	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 05 04	No	4021.76	soil and stones other than those mentioned in 17 05 03	R5	M	Weighed	Offsite in Ireland	Fitzsimmons, WFP/MH/10/00 04/01	Harristown, Navan, Co. Meath, Ireland		
Within the Country	19 12 02	No	534.51	ferrous metal	R4	M	Weighed	Offsite in Ireland	Hammond Lane, WFP-DC-09-0013-01	Pigeon House, Dublin, Ireland		
Within the Country	19 12 02	No	314.3	ferrous metal	R4	M	Weighed	Offsite in Ireland	Multimetals Recycling Ltd, WFP-WW-09-0014-01	Conway Port Industrial Estate, Ballymore, Wicklow, Ireland		
Within the Country	19 12 02	No	57.34	ferrous metal	R4	M	Weighed	Offsite in Ireland	Wilton Waste Recycling Ltd, WFP-CN-15-0003-01	Kiffagh, Crosserlough, Ballyja mesduff, Co Cavan, Ireland		
Within the Country	19 12 07	No	4332.53	wood other than that mentioned in 19 12 06 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R13	M	Weighed	Offsite in Ireland	Starrus Eco Holdings Ltd, W0053-03	Bray Depot, Fassaroe, Bray, Co Wicklow, Ireland		
Within the Country	19 12 12	No	1323.98	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R5	M	Weighed	Offsite in Ireland	Knockharley Landfill Ltd, W0146-02	Knockharley, Navan, Co Meath, Ireland		
Within the Country	19 12 12	No	22116.48	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R5	M	Weighed	Offsite in Ireland	Bord na Mona Drehid Landfill, W0201-03	Drehid, Co. Kildare, Ireland		

Within the Country	19 12 12	No	348.58 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 12	R5	M	Weighed	Offsite in Ireland	Ballynagran Landfill ,W0185-02	Ballynagran Residual Landfill ,Coolbeg and Kilcandra,Wicklow,Co wicklow,Ireland
Within the Country	19 12 12	No	113.98 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 12	R5	M	Weighed	Offsite in Ireland	Boliden Tara Mines Ltd,P0516-03	Knockumber,Navan ,Co Meath,Meath,Ireland
Within the Country	20 01 01	No	24.8 paper and cardboard	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling MDR,WFP-DC-10-0021-02	Unit 51 Henry Road,Parkwest Business Park,Dublin,12,Ireland
Within the Country	20 01 10	No	1.38 clothes 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	Textile Recycling ,Not Applicable	Greenogue Business Park,Saggart,Co Dublin ,?,Ireland
Within the Country	20 01 38	No	86.14 01 21, 20 01 23 and 20 01 35	R13	M	Weighed	Offsite in Ireland	ERP Contract,ERP Contract PTWDL T/A Thorntons Recycling Killeen Road,W0044-02	ERP Contract,.....Ireland Killeen Road,Ballyfermot,Dublin,10,Ireland
Within the Country	20 01 39	No	11.72 plastics	R13	M	Weighed	Offsite in Ireland	PTWDL T/A Thorntons Recycling MDR,WFP-DC-10-0021-02	Unit 51 Henry Road,Parkwest Business Park,Dublin,12,Ireland
Within the Country	20 01 39	No	1.32 plastics	R13	M	Weighed	Offsite in Ireland		
Within the Country	20 02 01	No	618.29 biodegradable waste	R3	M	Weighed	Offsite in Ireland	Barrockstown Farm Limited,WFP/MH/14/0007/02	Barrockstown ,Maynooth,Co Meath,..Ireland
Within the Country	20 03 01	No	2439.84 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	2914.48 mixed municipal waste	R5	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	36.0 mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Ballynagran Landfill ,W0185-02	Ballynagran Residual Landfill ,Coolbeg and Kilcandra,Wicklow,Co wicklow,Ireland
Within the Country	20 03 01	No	138.7 mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill Ltd,W0146-02	Knockharley ,Navan ,Co Meath ,Meath ,Ireland
Within the Country	20 03 03	No	620.24 street-cleaning residues	D5	M	Weighed	Offsite in Ireland	Bord na Mona Drehid Landfill,W0201-03	Drehid,..Co. Kildare,..Ireland
Within the Country	15 01 07	No	22.4 glass packaging	R5	M	Weighed	Offsite in Ireland	John Gannon Concrete Ltd t/a Gannon ECO,WFP-WM-2014-05	Split Hill Quarry,Hazelwood,Kilbeggan ,Westmeath,Ireland
Within the Country	16 06 01	Yes	5.58 lead batteries	R4	M	Weighed	Offsite in Ireland	KMK Recycling,W0113-04	KMK Recycling,W0113-04,Cappincur Industrial Estate,Daingean Road,Tullamore,Offaly,Ireland
Within the Country	17 01 01	No	111.42 concrete	R5	M	Weighed	Offsite in Ireland	Kieman Sand and Gravel Ltd,W0262-01	Foxtown,Summerhill,Meath,Meath,Ireland
Within the Country	17 01 01	No	1251.78 concrete soil and stones other than those mentioned	R5	M	Weighed	Offsite in Ireland	Walshestown Restoration Limited,W0254-01	Walshestown ,Blackhall Tipperkevin and Bawnoge,Naas,Kildare,Ireland
Within the Country	17 05 04	No	419.04 in 17 05 03 soil and stones other than those mentioned	R5	M	Weighed	Offsite in Ireland	Kieman Sand and Gravel Ltd,W0262-01	Foxtown,Summerhill,Meath,Meath,Ireland
Within the Country	17 05 04	No	281.88 in 17 05 03 soil and stones other than those mentioned	R5	M	Weighed	Offsite in Ireland	Bord na Mona Drehid Landfill,W0201-03	Drehid,..Co. Kildare,..Ireland

Within the Country	17 05 04	No	soil and stones other than those mentioned 295.4 in 17 05 03	R5	M	Weighed	Offsite in Ireland	Walshestown Restoration Limited,W0254-01	Walshestown ,Blackhall Tipperkevin and Bawnoge,Naas,Kildare,Ireland		
Within the Country	17 05 04	No	soil and stones other than those mentioned 25.72 in 17 05 03	R5	M	Weighed	Offsite in Ireland	Roadstone Ltd - Deerpark Quarry,WFP-MH-15-0002-01	Carrickdexter,Slane, Meath,Ireland 28 John F Kennedy Road,JFK Industrial Estate,Naas,Dublin 12,Ireland		
Within the Country	17 09 04	No	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03 189.68	R5	M	Weighed	Offsite in Ireland	Lawlor Brothers Waste Disposal Ltd t/a Access Waste,W0227-01	Millennium Business Park,Grange,Ballycoolin,Dublin 11,Ireland		
Within the Country	17 09 04	No	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03 105.52	R5	M	Weighed	Offsite in Ireland	Starrus Eco Holdings,W0183-01			
Within the Country	19 12 12	No	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 101.5	R5	M	Weighed	Offsite in Ireland	Kieman Sand and Gravel Ltd,W0262-01	Foxtown,Summerhill,Meath,Meath,Ireland		
Within the Country	19 12 12	No	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 243.46	R5	M	Weighed	Offsite in Ireland	Roadstone Ltd - Deerpark Quarry,WFP-MH-15-0002-01	Carrickdexter,Slane, Meath,Ireland 420-430 Beech Road,Western Industrial Estate,Naas Road,Dublin 12,Ireland	SRCL Ltd,W0055-02,420-430 Beech Road,Western Industrial Estate,Naas Road,Dublin 12,Ireland	420-430 Beech Road,Western Industrial Estate,Naas Road,Dublin 12,Ireland
Within the Country	20 01 27	Yes	paint, inks, adhesives and resins containing dangerous substances 2.76	D15	M	Weighed	Offsite in Ireland	SRCL Ltd,W0055-02			
Within the Country	20 01 36	No	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35 1.12	R4	M	Weighed	Offsite in Ireland	Rehab Enterprises Limited - Rehab Recycle,WFP-DS-10-0008-05	Unit 77,Broomhill Road,Tallaght,Dublin 24,Ireland		
Within the Country	20 03 01	No	3253.54 mixed municipal waste	R1	M	Weighed	Offsite in Ireland	Dublin Waste to Energy,W0232-01	Pigeon House Road,Poolbeg Peninsula, Dublin 4,Ireland		
Within the Country	20 03 03	No	19.7 street-cleaning residues	D5	M	Weighed	Offsite in Ireland	PTWDL T/A Thomtons Recycling Killeen Road,W0044-02	Killeen Road,Ballyfermot,Dublin,10,Ireland		
Within the Country	20 01 39	No	16.62 plastics	R13	M	Weighed	Offsite in Ireland	Lenvtron Ltd t/a Leinster Environmentals,WFP-LH-11-0002-02	Clermont Business Park,Haynestown,Haggardstown Dundalk,Louth,Ireland Dean Swift Building,Armagh Business Park,Hamiltonsbawn Road,Armagh ,United Kingdom		
To Other Countries	20 01 39	No	4.82 plastics	R13	M	Weighed	Abroad	Vincent McGuinness (Envirogreen Polymers),WMEX 22/113			
Within the Country	20 01 39	No	34.34 plastics	R13	M	Weighed	Offsite in Ireland	Cloughwater Plastics Ireland Limited,WFP-FG-08-0002-04	Rosemount Business Park,Ballycoolin Road,Blanchardstown,Dublin 11,Ireland		

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