

PADRAIG THORNTON WASTE DISPOSAL LTD

**DUNBOYNE CIVIC AMENITY AND
MATERIALS RECYCLING FACILITY**

Waste License W0206-01



ANNUAL ENVIRONMENTAL REPORT 2010

Submitted March 2011

Prepared by Mercedes Kavanagh- Environmental Manager

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1. Introduction

Padraig Thornton Waste Disposal Limited (PTWDL) operates waste licence (W0206-01) which was issued by the Environmental Protection Agency (EPA) on the 25th 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 31th of each year for the preceding calendar year.

This AER is for the period from the 1st January 2010 to 31st December 2010.

The facility is located at:-

Padraig Thornton Waste Disposal Ltd (PTWDL) T/A Thornton Recycling,
Civic Amenity and Materials Recycling Facility,
Dunboyne Industrial Estate,
Dunboyne,
Co. Meath.

The contact details for the facility are as follows:

Telephone: 01 8255666/01 6235133

Fax: 01-8013896

EPA Site Contact: Tommy Rogers/Mercedes Kavanagh

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

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

Padraig Thornton Waste Disposal Ltd (PTWDL) T/A Thornton 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.

The licensed waste handling activities, permitted under the Third Schedule¹ and Fourth Schedule² 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

Waste is checked and documented at the weighbridge in accordance with our waste license W0206-01 and waste acceptance procedure EP13 (Appendix 1). Waste is then tipped into the processing building where it is inspected and segregated both manually and then mechanically or bulked for further processing at the Killeen Road facility in Dublin, W0044-02. Segregated materials are stored in designated bays where they are bulked up before being reloaded into 40 foot trailers generally for transport to either licensed disposal facilities or to an approved recycling or recovery facility for further processing. Should any non-conforming waste come to the attention of our staff it is either rejected before collection by the driver or segregated and quarantined until a safe and environmental friendly disposal route are arranged by the environmental team. All non conforming wastes are handled in accordance with the Waste Acceptance Procedure for Dunboyne facility EP 13.

¹ Third Schedule- Waste Disposal Activities

² Fourth Schedule- Waste Recovery Activities

The weighbridges were verified by Percia Molen on the 13th November 2009 and EC Weighbridge Certifications produced. A copy of the certificates is in Appendix 2.

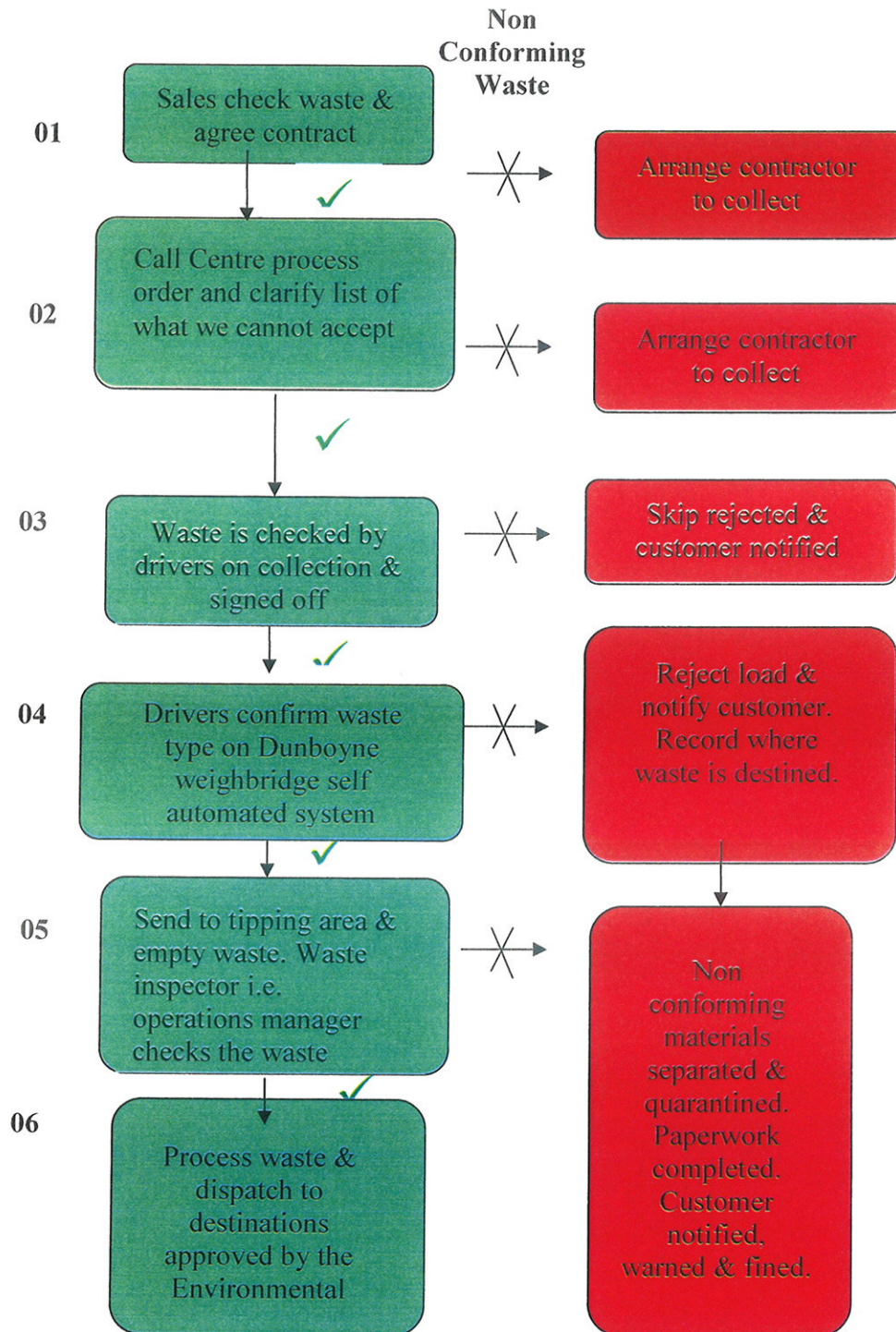
The facility also has a civic amenity site in which recyclates are accepted from members of the public. Weights of the material accepted are calculated from the weights of the bulked loads before they are consigned from the facility and not as they are delivered to the facility.

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

3.1 Waste Acceptance

Figure 1 is a simplified diagram explaining our waste acceptance procedures at Thorntons Recycling Dunboyne. The waste acceptance procedure of the facility is detailed in EP 13 and was revised in 2009 to include the new self automated weighbridge facility (Copy enclosed in Appendix 1).

Figure 1: Thorntons Recycling Waste Acceptance Diagram



3.2 Waste Received

A total of 21,443.36 tonnes of waste was received at the Materials Recovery Facility (MRF) between 1st January 2010 and 31st December 2010. A total of 335.35 tonnes of recyclable material was accepted at the civic amenity (CA) site during this year giving a total of 21776.71 tonnes for the MRF and the CA site. A summary of the waste that was accepted during the year is detailed in Table 1 and also in Appendix 3 of this report.

Table 1: Summary of Waste accepted at the MRF during 2010, by total tonnage and percentage of the total received

EWC	Material Received	Tonnes	%
20 03 07	Bulky MMW/ Skip Waste	16679	77.78
15 01 03	Wood Packaging	507	2.36
17 02 01	Wood C&D Waste Wood	122	0.57
19 12 07	Wood processed or chipped	13	0.06
20 01 39	Mixed Plastic	5	0.02
20 01 99	Mixed Dry Recyclables	9	0.04
17 01 07	Clean Construction Rubble	0	0
17 05 04	Soil and Stone	782	3.65
17 09 04	Mixed C&D Waste	3199	14.92
19 12 02	Ferrous Metal Mixed Steel	111	0.52
16 01 18	Non - Ferrous Metal	13	0.06
20 01 02	Glass Into Site	2	0.01
	Total Into MRF Site	21443	100

The majority of the waste accepted at the site consists of Mixed Municipal Waste (MMW) and Mixed Construction and Demolition Waste (mixed C&D).

3.3 Waste Consigned

A total of 21533.93 tonnes of waste material was consigned from the facility during the reporting period of 2010. This tonnage includes tonnage which came in through the civic amenity site. A complete breakdown of the materials and waste removed is provided in Appendix 3 of this report.

Table 2: Summary of Waste consigned from the site during 2010

EWC	Materials Consigned	Tonnes
16 01 18	Non Ferrous Metals	31
19 12 02	Ferrous Mixed Metals	269
15 01 04	Metallic Packaging Aluminum	3
17 01 07	Clean Construction Rubble	2,582
17 05 04	Soil and Stones	299
19 12 07	Wood Processed or Chipped	916
16 06 01*	Batteries	1
15 01 07	Glass Packaging	76
19 12 09	Trommel Fines	7,492
20 03 01	Mixed Dry Recyclables	102
15 01 02	Plastic Bottles	6
20 03 07	Mixed Municipal Waste	9,639
16 05 05	Gas Cylinders	4
16 01 03	Tyres	11
17 05 03*	Quarantine Material - Contaminated Soil and Stones	1
20 01 35	Mixed WEEE	103
SUM		21,534

The recycling target for construction and demolition waste set in the waste management policy document “Changing Our Ways”, (1998), was at least 50% by 2003 and progressing to at least 85% by 2013. This facility is well on the way to achieving these targets by diverting material from landfill such as stone for recycling, soil for landfill cover, metal for further processing.

Due to the downturn in the Construction and Demolition trade the facility experienced a decrease in the amount of C & D material suitable for processing. In order to ensure that the facility was operated economically, processing on site was minimized and material was bulked and sent to the Killeen Road for further processing, some 42.14% of material which entered the Dunboyne facility was reprocessed at the Killeen Road in the high specification CID line. This processing line is currently producing Solid Recovered Fuel (SRF). Table 3 summarizes recycling and recovery rates, clearly showing that only 2.62% of the waste which entered the facility was sent to landfill in 2010, this would include bulky wastes such as mattresses etc not suitable for re processing at the site.

Table 3: Recycling and Recovery rates for 2010

Waste Statistics 2010	Tonnes	%
Total Waste Out	21534	
Total Waste to Landfill	564	3
Total Waste Recovered	10373	48
Total Waste Recycled	1522	7
Waste to Killeen Road Reprocessing	9075	42

It is hoped that the recycling and recovery rates will increase again during 2011. We aim to do this by:

- Business Development – Increasing tonnages at the facility.
- Working to International Standards ISO 14001 Environmental, ISO 9001 Quality and OHSAS 18001 Health and Safety with continuous development of new operational procedures.
- Continuous training and education of staff at all levels on site about what materials can be recycled and developing new outlets for materials
- Integrated waste management services offered that encourages clients to opt for different types of bins, e.g plasterboard segregation with large builders etc.
- Continued education of new and existing clients and their obligations in relation to the law.
- Continue to offer reduced rates to customers who segregate their waste, for example wood and metals etc.
- Presentations and demonstrations on recycling at our client's premises.

4 Dust and Particulate Matter Monitoring

Quarterly reports for dust and particulate matter PM10 were submitted to the Agency for 2010 in April (206-01/10/MK/01), July (206-01/10/MK/04), Oct (206 01/10/MK/07) and Jan 2011 (206-01/11/MK/01).

4.1 Dust Monitoring

In compliance with Condition C.6 of waste licence W0206-01 dust deposition and particulate matter (PM10) monitoring was carried out quarterly at the facility. The monitoring locations are shown in Appendix 4. Dust deposition monitoring was carried out by an independent consultant, Fehily Timoney and Company during 2010.

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.

Table 4: Dust deposition results for each dust monitoring location per quarter during the year 2010

Dust Monitoring Dunboyne					
Monitoring	Quarter 1	Quarter 2	Quarter 3	Quarter 4	ELV
Locations					mg/l
D1	21	74	143	146	350
D2	49	164	68	182	350
D3	68	84	140	183	350
D4	40	50	117	110	350

The dust deposition results above show that there was no exceedances in the emission limit value for 2010 at the facility. PTWDL understand the importance of maintaining dust deposition levels below the emission limit value of 350mg/m²/day. The road sweeper cleans the hard standing of the site weekly during the wet periods and twice weekly during the dry periods of the year to collect any material deposited on the hard standing in the yard. Staffs on site are encouraged to brush the yard and use spray hoses during dry periods to mitigate against dust. The majority of operations are undertaken indoors where any dust created can be contained and kept from being released into the environment.

4.2 Particulate Matter Monitoring

Particulate matter monitoring was carried out by an independent consultant, Fehily Timoney & Co., at four locations (D1-D4) using PM10 filters for a period of 24 hours at each location. The results of the PM10 monitoring are shown in Table 5.

There was one exceedance of the emission limit value during the year in Quarter 2. This was reported as an incident to the EPA on the 16th July 2010 (Reference: 206-01/10/MK/03) and a full detailed report forwarded in relation to same (206-01/10/MK/04). It was concluded in the independent consultant's report that the locations are "close to the slip road of the new M3 Motorway. This has resulted in increased traffic volumes close to the site in an area that was previously Greenfield, which may have contributed to the increased PM10 levels. Additionally it was noted that monitoring occurred during a particularly dry period which could have increased particulate levels" Monitoring carried out in Quarter 3 and Quarter 4 in 2010 did not show any further elevations in PM10 at any of the monitoring locations.

Table 5: Particulate Matter monitoring results for each quarter during 2010 at four locations on the site boundary

PM10 Monitoring Dunboyne					
Monitoring	Quarter 1	Quarter 2	Quarter 3	Quarter 4	ELV
Locations					mg/l
D1	12.7	20.5	14.7	14.0	50
D2	30.4	110	17.9	8.5	50
D3	39.1	80	27.4	10.7	50
D4	27.7	19.6	9.4	37.5	50

5 Noise Monitoring

In compliance with Schedule B.4 and C.5 of waste licence W0206-01 noise monitoring was carried out bi-annually at the facility. Noise monitoring was carried out by trained staff of Thornton's Environmental Department. As the facility only operates during the day, only daytime monitoring was carried out. The monitoring locations are contained within Appendix 5 of this report.

Day time monitoring was carried out on:

- 10th June 2010 (Reference report 8th September, 206-01/10/MK/06)
- 30th November/ 1st December 2010 (Reference report 10th December 2010, 206-01/10/MK/09)

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 2010 and show the recorded noise levels during the respective noise monitoring periods.

The analysis of the results from the noise monitoring shows that the noise levels at the noise sensitive locations are not adversely impacted upon by the site activities.

The noise limits set out in the license W0206-01 were exceeded at NP5 (Lutterhall Estate). However when reviewing the report for the first half of the year it may be noted that exceedances at this location may be attributed to machinery operating for cleaning drains in the area (not belonging to Thornton's Recycling). The second half of the year noise monitoring concluded that noise may be attributed to kids playing, dogs barking and traffic in the area during the monitoring period.

The noise limit was recorded as exceeding the limits at NP6 during the first half of the year. On this occasion it is shown that the source of the noise was not as a result of site activities from Thorntons Recycling but from traffic travelling on the local road.

Table 6: Bi-annual noise monitoring results for the period of 2010 at 6 locations

Monitoring Locations	Half 1 { 10th June 2010 }			Half 2 {30.12.10 and 01.12.10 and 08.12.10 }			ELV (dB)
	LA _{eq} (dB)	LA ₁₀ (dB)	LA ₉₀ (dB)	LA _{eq} (dB)	LA ₁₀ (dB)	LA ₉₀ (dB)	
NP1	55.7	56.9	55.9	55.1	57.8	49.8	n/a
NP2	57.9	61.4	57.6	52.4	53.7	40.6	n/a
NP3	62.6	62.9	58.6	57.8	61.6	45.2	n/a
NP4	62.1	62.4	58.1	52.7	54.4	46.1	n/a
NP5	62.9	62.9	62.1	59.1	55.8	44.8	55
NP6	58	62.4	58.1	53.1	51.2	42.1	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 6.

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 have 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 in quarter 1, 2, 3 and 4 and detailed explanations of any elevated results have been given (Reference 15th April 2010 206-01/10/MK/01, 19th July 2010 206-01/10/MK/04, 22nd October 2010 206-01/10/MK/0, 12th January 2010 206-01/11/MK/01)

Monitoring point SW1 is located upstream to the west of the site at the point where the local drain enters the site boundary and monitoring point SW2 is located downstream to the north of the site where the drain leaves the site boundary. A lot of construction works have been carried out adjacent to the site over the past few years and now 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 2010 at monitoring location SW1

**Surface Water 1 - Upstream Local Drain Enters the Site
SW1**

Monitoring Parameters	Quarter 1 16.03.10	Quarter 2 09.06.10	Quarter 3 24.08.10	Quarter 4 22.11.10-	Units
BOD	1.2	2.56	70.3	5.95	mg/l
COD	7.32	14.5	188	161	mg/l
Suspended Solids	<6	5.5	75.9	172	mg/l
pH	8.15	8.25	8	8.09	Ph Unit
Orthophosphate (as P)	<0.03	<0.03	<0.03	<0.03	mg/l
Ammoniacal Nitrogen (as N)	0.24	<0.2	0.47	<0.2	mg/l

Table 8: Surface water monitoring results per quarter of 2010 at monitoring location SW2

Surface Water 2 - Downstream Drain leaves the site
SW2

Monitoring Parameters	Quarter 1 16.03.10	Quarter 2 09.06.10	Quarter 3 24.08.10	Quarter 4 22.11.10-	Units
BOD	2.84	2.2	22.5	1.71	mg/l
COD	31.7	16.3	243	38.5	mg/l
Suspended Solids	40	11.5	546	35.5	mg/l
pH	8.19	8.33	7.5	7.93	Ph Unit
Orthophosphate (as P)	<0.03	<0.03	<0.03	<0.03	mg/l
Ammoniacal Nitrogen (as N)	<0.2	<0.2	0.698	<0.2	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 2010 at monitoring location SW3

Surface Water 3 - Discharge Pipe
SW3

Monitoring Parameters	Quarter 1 16.03.10	Quarter 2 09.06.10	Quarter 3 24.08.10	Quarter 4 22.11.10-
BOD	1.3	2.18	2.21	5.43
COD	8.69	41.7	19	174
Suspended Solids	<6	7.5	<4	121
pH	8.13	7.96	8.35	8.52
Orthophosphate (as P)	<0.03	<0.03	<0.03	<0.03
Nitrates (as NO3)	14.9	2.49	0,584	3.15
Ammoniacal Nitrogen (as N)	<0.2	<0.311	0.537	<0.2
Copper	n/a	n/a	n/a	0.00319
Zinc	n/a	n/a	n/a	0.00109
Sulphates (as SO4)	79	257	191	52.8
Detergents MBAS	<0.05	0.0598	<0.05	<0.05
Phenols	<0.015	<0.1	<0.015	<0.002
Mineral Oils	<10	0.137	<10	0.892
Chloride	38.7	41.7	38.7	7.7
Colour	3.7	4.01	8.63	4.32

The surface water is sampled weekly at S3 by an independent consultant. S3 is the point at which surface water discharges from the site to the drainage ditch. All results have been forwarded to the EPA in quarterly reports in 2010.

Historically S3 was sampled at the discharge pipe into the ditch since the development of licence in 2006 and as agreed with the Agency but following an EPA audit in July 2010

at the facility they have now requested that monitoring be taken from the holding tank before discharge to ditch. The independent laboratory (Advanced Micro services and Environmental Laboratories Ltd) who carry out sampling on a weekly basis have been instructed to take the sample from this location. The results show that the majority of the sample results are consistent with each other with some exceptions where parameters measured were elevated. The cause for these random elevated results was provided to the EPA in quarterly reports in 2010.

Overall it can be concluded that the site is not having an adverse effect on the water quality of the drainage stream is in some cases positively influenced by the water discharge from the site for example in quarter 4 BOD, COD and Suspended are actually lower downstream than upstream after the discharge has entered from the site.

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. The discharge to the foul water for each quarter of 2010 was below the emission limit values set down by the waste license. (Table 11 details foul water monitoring results for 2010).

The heavy metals in the foul water were also measured four times 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).

Table 10: Foul water monitoring results per quarter of 2010

Foul Water Results Dunboyne 2010					
Monitoring Parameters	Quarter 1 16.03.10	Quarter 2 09.06.10	Quarter 3 24.08.10	Quarter 4 22.11.10	ELV mg/l
BOD	7.22	5.24	11.3	24.9	1000
COD	24.5	86.2	44.6	67.8	3000
Suspended Solids	32	58.5	9.41	7	1000
pH	8.32	8.29	8.32	8.03	06 -- 10
Phosphorus (as P)	0.584	0.123	*	*	20
Nitrates (as NO ₃)	11.8	10	5.24	5.09	100
Ammoniacal Nitrogen (as N)	1.6	0.995	4.62	2.68	10
Colour True	n/a	<1	12.5	4.1	-
Mineral Oils	0.062	<10	0.24	2.25	20
Sulphates (as SO ₄)	52.2	114	155	138	1000
Detergents MBAS	0.0972	0.0732	0.0968	0.0823	20
Phenols	<0.015	<0.1	<0.015	<0.002	0.1
Chloride	25.9	23.3	27	26.1	250
Heavy Metals	Below	Below	Below	Below	-
Organic Solvents	None	None	None	None	no visable film

Table 11: Heavy metal concentration in the foul water for four quarters during 2010

Foul Water Heavy Metal Results 2010				
Monitoring Parameters	Quarter 1 16.03.10	Quarter 2 09.06.10	Quarter 3 24.08.10	Quarter 4 22.11.10
Dissolved Zinc Low Level	29.8	38.6	13.7	11.8
Dissolved Mercury Low Level	0.0103	<0.01	*	<0.01
Dissolved Arsenic Low Level	0.691	1.24	1.45	0.949
Dissolved Boron Low Level	*	*	96	
Dissolved Cadmium Low Level	<0.1	<0.1	<0.1	<0.1
Dissolved Chromium Low Level	4.73	8.53	6.18	4.96
Dissolved Copper Low Level	17	3.55	17.9	3.77
Dissolved Lead Low Level	0.183	0.242	0.365	0.058
Dissolved Nickel Low Level	3.24	5	2,85	4.44
Dissolved Selenium Low Level	2.29	8.02	6.27	4.81
Units measured in ug/l				

7. Resource Consumption Summary

This section details the resources used by the facility during the period of 1st January 2010 to the 31st December 2010. Resources that were monitored include fuels, water and ESB.

7.1 Water

In 2010, 4,622m³ of foul water was discharged from the site at FW1, as measured from the continuous recording meter located at the discharge point. 7,003m³ 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 and washing down the MRF floors. Water that is discharged into the surface water consists of water from the run off 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.

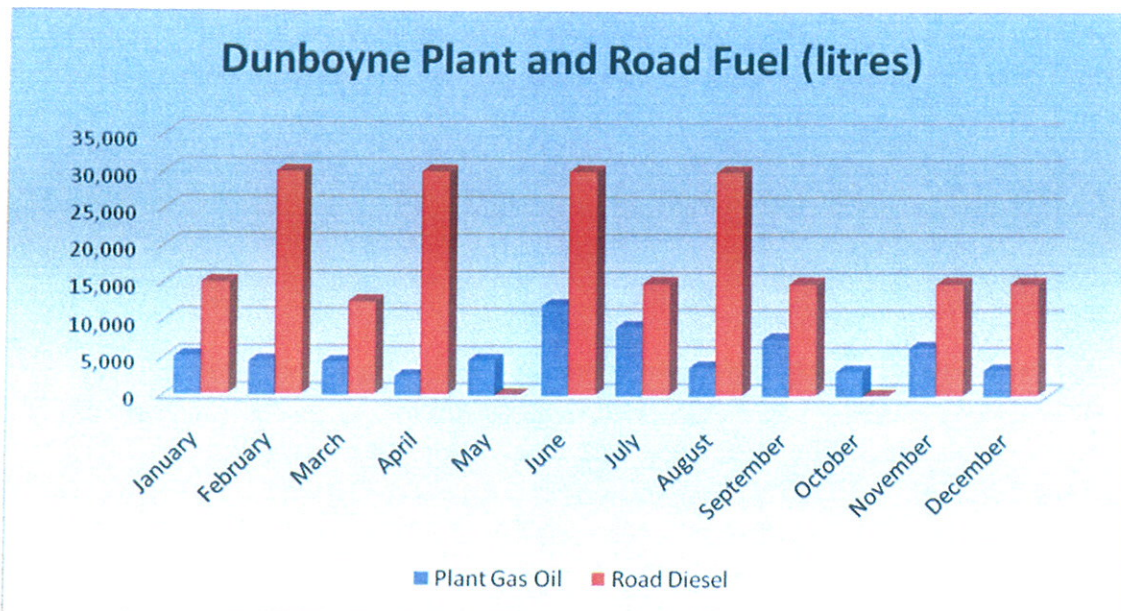
Table 12: Foul and Surface Water discharges from 2005-2010

	2005	2006	2007	2008	2009	2010
Foul	3461	3080	3144	4691	4528	4622
Surface	5665	6459	6636	8479	8728	7003

7.2 Diesel

The main types of fuel used at the facility include road diesel, plant diesel (Gas Oil) for the machinery working on site and heating oil (Kerosene) for the offices. Figure 2 illustrates Plant Gas Oil and Road Diesel consumed at the facility in 2010.

Figure 2 Monthly consumption of road diesel and plant gas oil at Dunboyne during 2010



Road diesel has decreased over the last three years at the facility. This is largely due to less activity at the facility and less vehicles using the facility as a base for fuelling. In 2008, 435,289 litres of diesel was purchased, 2009 304,116 litres purchased and in 2010 only 207,619 litres of road diesel was purchased at the site. A total of 64,464 liters of gas oil were used by the generator and plant machinery on site.

It is hoped that through an efficient energy management programme at Thorntons Recycling that both road diesel and gas oil/ plant diesel consumption at the facility can be reduced in 2011.

7.3ESB

Thorntons Recycling is currently implementing an energy management programme on all its sites. As part of this new programme, which will reduce energy consumption on all company sites, the company changed over electricity supplier. In 2010 the annual consumption of day time kWh was 88,680 kWh and the night time usage was 23,640 kWh. It is hoped that electricity consumption at the site can be reduced in 2011 through our energy management programme. Table 13 displays the annual usage of electricity in 2010.

Table 13: Comparison of ESB energy usage between 2010

Year	Day k/Wh	Night k/Wh	Kvarh
2010	88680	23640	83520

8 Complaints Summary

There were no environmental complaints received at the facility during 2010. Thorntons Recycling takes all complaints seriously and is committed to resolving any complaints 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 is contained in Appendix 7

10 Tank and Pipeline Inspection Report

10.1 Tank Bunding

Thorntons Recycling commissioned Fehily Timmony and Company in 2008 to carry out testing on the bunds at the facility. All three bunds were tested on the 4th December 2008. A copy of the bund certificates were submitted to the EPA. All three bunds passed the integrity test. These bunds are scheduled for their next test in 2011, as per condition 6.7 of the license.

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. Super drain limited completed a full CCTV drain survey of the facility on the 29th March 2008. A copy of this report was forwarded to the EPA previously.

11 Reported Incidents Summary

Table 14 summaries the incidents, which occurred in 2010. These were reported to the EPA by fax and followed up with a written report as per the EPA guidelines.

Table 14: Incidents 2010

Date sent to Agency	Comments on Incident
16.07.10	Fax sent to EPA re elevations in PM10 at monitoring points D2 and D3, report forwarded.

12 Odour Management Programme

A copy of the odour management programme as submitted to the Agency on the 25th October 2005, our reference 206-01/05/TR/03. All waste handled at the facility is dry non-putrescible skip waste or construction and demolition waste and is all handled and processed indoors. There is a very low risk for odour emissions from the facility. This has been proven by the longstanding history of no complaints to the facility in relation to odour.

13 Energy Efficiency Audit Report Summary

A resource use and energy efficiency audit was carried out by White Young and Green in July 2006. The full audit report was forwarded to the EPA in previous AER's.

Energy and resource usage are monitored (electricity, Kerosene, water) and it is intended that consumption values will be maintained as low as possible whilst not impacting on the efficiency of operations. Thorntons Recycling is currently working on an energy management programme for all its sites and it is hoped in 2011 that further reductions can be made in all resource and energy consumption at the facility.

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 is very low, this was maintained by keeping storage stocks of material to a minimum and emptying storage bays completely as often as possible. 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

With the exception of the fire suppression all of the above facilities discharge their effluents into the foul drainage system.

Water requirements have decreased in 2010 due to the decrease in tonnage handled and downsizing of staff at the facility due to the economic downturn. There are currently only two members of staff on site one in operations and one in the office. Water is only used for sanitary facilities and washdown when required. There was no fire at the site during 2010, thus no fire water was used.

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. As discussed previously Thornton's Recycling have their own tankering division who can be called upon in an emergency.

15.2 Water supply and Storage

Water is supplied to the site via Meath County Council water mains network. A 80m³ water storage tank is located adjacent to the MRF. Water from this tank is used to wash down the MRF floor when required 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. Thorntons Recycling carried out an investigation in 2010 on water usage and full detailed reports were forwarded to Meath County Council.

15.3 Foul water discharge

The license permits a maximum of 30m³/day to be discharge into the foul water. This equated to a total of 9360m³ per year based on a six day working week. The meter reading on the foul water discharge shows that 4,622m³ was actually discharged during 2010.

15.4 Progress on Minimisation of Water Usage

The water usage is now very low on the site due to a decrease in tonnage over the last three years and also a reduction in staff numbers. There are currently only two full time members of staff on site during the day time, one in operations and one based in the office. The main demands on water are related to washing of trucks and bins. Thorntons Recycling road sweeper cleans the yard and the hard standing weekly to avoid the excessive use of water.

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 FBD Brokers (Appendix 8). PTWDL is insured for Employers Liability, Public/Products Liability, Motor Insurance and also has a pollution insurance policy.

A report in relation to the financial provision is required under condition 12.3 and was prepared in July 2006 and forward 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. 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. Thorntons Recycling is a financially secure company, which is evident from the director's report and consolidated financial statements for the year ending 31st December 2010.

16.2 Site Management Structure

Carmel Thornton
Director

Shane Thornton
Director

Anna Marie Thornton
Director

Paul Thornton
Director

Gary Brady
Managing Director

Ciaran Dowling
Operations Facility Manager

Tommy Rogers
EHS Manager

Mercedes Kavanagh
Group Environmental Manager

Tommy Rogers/Mercedes Kavanagh can be contacted regarding any queries that the Environmental Protection Agency may have. Tommy's contact details are as follows: 086-3811122 and tommyr@thorntons-recycling.ie and Mercedes' are Mobile 086-8241034 and mercedes@thorntons-recycling.ie. Both Tommy and Mercedes have completed the necessary FAS/Fetac Waste Management Training courses and are competent waste managers.

16.3 Program of Public Information

Thorntons Recycling operates an open door policy. All information relating to activities carried out at Thorntons Civic Amenity and Materials Recycling Facility is maintained in 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 on a daily basis 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 Centre has also upgraded its website so customers can access key environmental information such as waste collection permit numbers and waste licenses etc.

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

17 Environmental Liabilities

Thornton's 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 twice a year 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 licence W0206-01. A comprehensive emergency plan exists for all facilities operated by the company.

List of Appendices

- Appendix 1** – Waste Acceptance Procedure Dunboyne EP 13
- Appendix 2** – Weighbridge Certificates
- Appendix 3** – Waste Received and Consigned 2010
- Appendix 4** – Dust Deposition and PM10 monitoring locations
- Appendix 5** – Noise monitoring locations
- Appendix 6** - Surface and Foul water monitoring location
- Appendix 7** - Schedule of Environmental Objectives and targets and Environmental Management programme for 2011, progress on 2010
- Appendix 8** - Insurance Details

Appendix 1

Environmental Procedures Manual		Reference	EP13
Title: Waste Acceptance procedure Dunboyne		Date issued	30/10/2009
		Revision	02

Relevant to:-	Killeen Road	Kilmainham Wood	Dunboyne	PDM	ELV	HQ	Tankering
			√				

Purpose and Scope

The purpose of this procedure is to detail the waste acceptance procedure for Thorntons Recycling Dunboyne Civic Amenity and Materials Recycling Facility and also the procedure to be followed in the event of the accidental discovery of unacceptable wastes at the facility.

Unacceptable Waste – a waste type that is not permitted to be handled at the facility and is listed in the “Materials we DON’T Accept”

Material We DO accept

(MRF only)

Construction waste
Demolition waste
Timber
Topsoil
Brickwork
Concrete
Mixed Metals
Clay and natural stone
Dry non-hazardous commercial and industrial waste
Mixed Municipal Waste

(Civic amenity ONLY)

Cardboard,
Paper
Plastic Packaging
Aluminium cans
Metal cans
Tetra pak
Clothes
Glass Bottles
Metal
Batteries
Electrical Goods
Light bulbs

Material we DON'T accept

(MRF and C.A)

Animal remains or carcasses
Asbestos
Chemical Waste
Contaminated soil & Stone
End of Life Vehicles
Hazardous hospital waste (Including sharps containers etc)
Liquid Waste
Materials contaminated with oil, e.g oil filters or rags
Oil/Water mixtures
Paints
Tyres
Pharmaceutical waste
Photographic waste
Pressurised vessels, e.g fire extinguishers
Road sweepings
Sludge
Food Waste
Saw Dust
Any hazardous material
Green waste

Environmental Procedures Manual		Reference	EP13
Title: Waste Acceptance procedure Dunboyne		Date issued	30/10/2009
		Revision	02

Relevant to:-	Killeen Road	Kilmainham Wood	Dunboyne	PDM	ELV	HQ	Tankering
			√				

Responsibility

The sales Team are responsible for highlighting non-acceptable wastes types to customers. This includes the inspections of the waste prior to collection.

Drivers are responsible for checking all loads for unacceptable wastes prior to collecting the load.

The Operations manager on site is responsible for identifying and highlighting non conforming waste and checking all loads of waste brought into the facility. The Dunboyne weighbridge is self automated therefore a waste check by a weighbridge operator is not carried out as with other sites owned by Thorntons Recycling

The Operations manager is responsible for inspecting, assisting in documenting and informing the Environmental manager and the Dunboyne transport department of any Non- Conforming waste which enters the facility.

The Environmental Manager is responsible for organising the safe removal of any non-conforming waste. The Environmental manager is responsible for ensure tractability of non-conforming waste and informing the sales team.

Associated Documents

[EP04-F01A, Non- Conforming Waste form](#)

Procedure

The following process must be followed when handling all wastes;

1. The Sales Department provide all our account customers with a list of what we can and cannot accept at the facility. If in doubt about any waste type they contact the Environmental Department
2. The Call Centre processes the order and selects the waste description with the appropriate EWC Code and enters onto the WIMS. If in doubt about any code or a waste type contact the Environmental Department
3. Drivers check the contents of the skip, bin or container on collection and report to the transport department if there is non-conforming waste. Transport in turn liaise with the Environmental Dept and will advise you on how to proceed (If necessary Thorntons can arrange for an alternative collector)

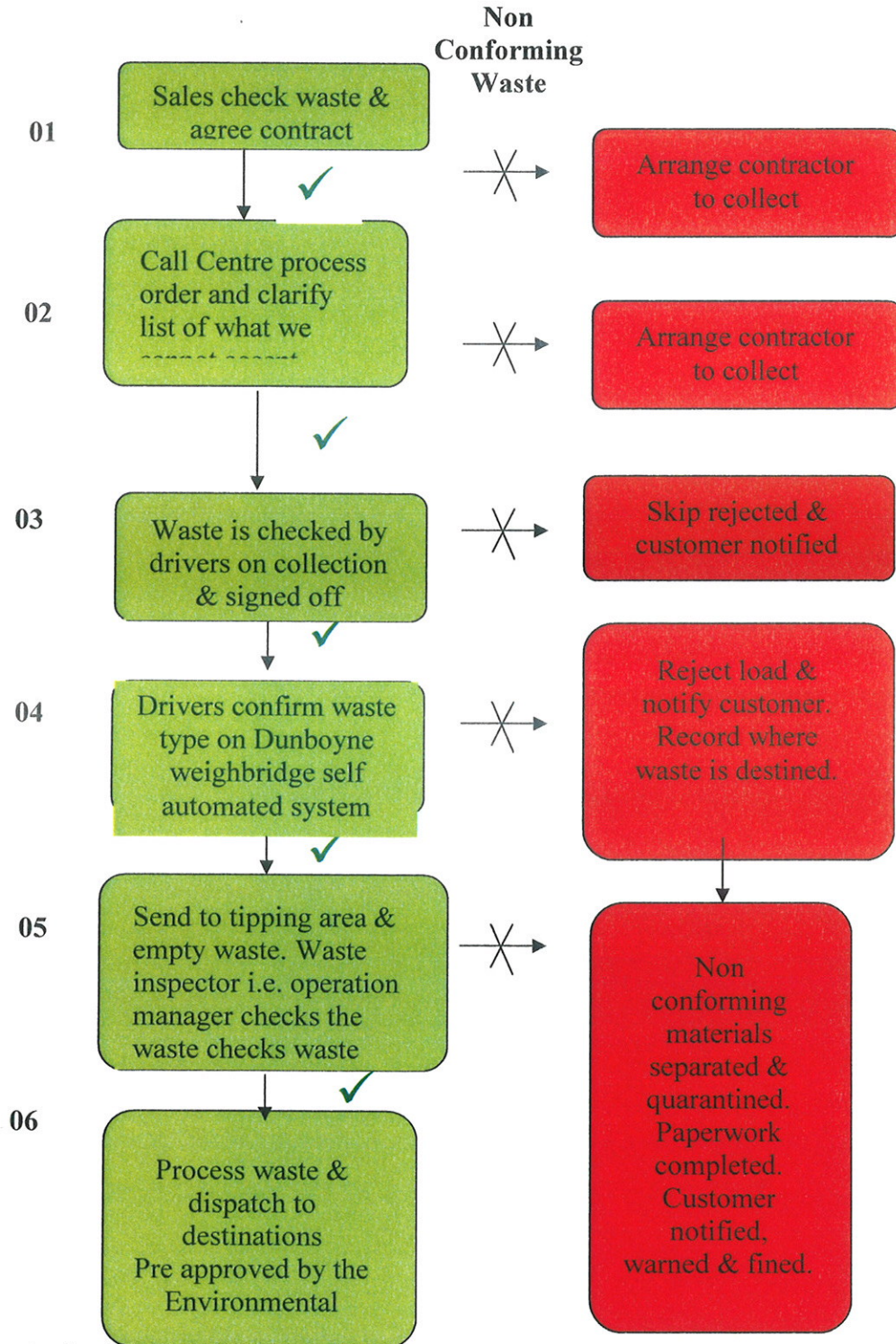
Environmental Procedures Manual		Reference	EP13
Title: Waste Acceptance procedure Dunboyne		Date issued	30/10/2009
		Revision	02

Relevant to:-	Killeen Road	Kilmainham Wood	Dunboyne	PDM	ELV	HQ	Tankering
			√				

4. As the weighbridge at Dunboyne is self automated, drivers must confirm waste type on entrance to the facility. Should the driver need to change the waste type he can amend the waste type on the self automated bridge which in turn will update WIMS. The system has been set up to only allow the driver to weigh in acceptable wastes on sites.
5. When non confirming waste is tipped the operations manager must complete the necessary non-conforming waste form and attach photos if required. He must move waste to the quarantine area if required. He must pass the non-conforming form is form to the environmental manager.
6. The environmental manager will contact the sales rep for the account. The appropriate sales rep is to be contacted so that they can in turn advise the customer of a fine, recharging, rejection of waste etc. Should the waste type description need to be changed on WIMS the weighbridge dept are informed and the sales rep who in turn advises the customer of this change and necessary changes in charges of applicable.
7. Paperwork is filed in the Environmental Department at Dunboyne

Environmental Procedures Manual		Reference	EP13
Title: Waste Acceptance procedure Dunboyne		Date issued	30/10/2009
		Revision	02

Relevant to:-	Killeen Road	Kilmainham Wood	Dunboyne	PDM	ELV	HQ	Tankering
			√				



Appendix 2

EC WEIGHBRIDGE VERIFICATION CERTIFICATE NO : SO 5692-C1

CUSTOMER: Thorntons Recycling
SITE ADDRESS: Dunboyne
Co. Meath

APPROVAL CERTIFICATE NO: FC-01-A-005
INDICATOR TYPE: I300 (X222)
INDICATOR TEST CERT. NO: TC LNE No 03.03
INDICATOR SERIAL NO: 02F742651

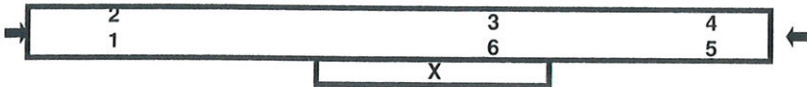
SERVICE REPORT NO: 9700
MANUFACTURER: Precia Molen
WEIGHBRIDGE TYPE: Overground
PLATFORM SIZE: 15 X3
WEIGHBRIDGE LOCATION: Entrance

MAXIMUM CAPACITY (kg): 50000
DIVISION (e) (kg): 20
LOADCELL TEST CERT.: R60/2000-DE-03.02
PRINTER SERIAL NO:
TARE FACILITY: Disabled

Accuracy of Zero, Linearity/Hysteresis, Discrimination & Comparison Tests = *

Approximate Test Interval (e)	MPE (e)	Actual Load (kg)	Indicator Up	Display Error (e)	True Error (e)	Indicator Down	Display Error (e)	True Error (e)	Discrimination	Comparison	
Zero	0.25	0	0	0.0		0	0.0				
2	0.25	40	40	0.0		40	0.0				
50	0.50	1040	1040	0.0	0.00	1040	0.0	0.00	Yes	Yes	
500	0.50	10040	10042	0.1	0.10	10040	0.0	0.00			
1000	1.00	20040	20044	0.2	0.20	20042	0.1	0.10			
SL		20040	20044								
1250	1.00	25040	25042	0.1	0.10	25042	0.1	0.10	Yes	Yes	
2000	1.00	40040	40042	0.1	0.10	40044	0.2	0.20			
SL		40040	40042								
2250	1.50	45040	45044	0.2	0.20	45044	0.2	0.20	Yes	Yes	
			PASSED	Yes				FAILED	No		

SL - Substitute Load



X = INDICATOR
ECCENTRIC LOAD TEST - MPE (e): 0.5

COMPARISON TEST

Printer	N/A
Remote Display	N/A
PC	Yes
Other	N/A
Passed	Yes
Failed	No

Position	1	2	3	4	5	6	7	8	9	10	11	12	
Test Load	10040	10040	10040	10040	10040	10040							
Indicator	10042	10042	10040	10044	10044	10040							
Error	0.1	0.1	0.0	0.2	0.2	0.0							
PASSED						Yes	FAILED						No

REPEATABILITY TEST

50% - MPE 1.0e
90% - MPE 1.5e

	Indication	Indication	Indication
50%	25042	25044	25042
90%	45044	45042	45044
PASSED	Yes	FAILED	No

ROLLING LOAD TEST

0.8 of Max Capacity - MPE 1.0e

	END	MIDDLE	END
→	Indication	Indication	Indication
→	45042	45044	45044
←	45042	45044	45042
PASSED	Yes	FAILED	No

ENVIRONMENTAL CONDITIONS: Wet
TEST WEIGHTS USED: Precia Molen Ireland Limited
VERIFICATION DATE: 06 November 2009

AUTHORISED ENGINEER: Milly Perry
CERTIFICATE NO: T206376
NEXT CALIBRATION DATE (LEVEL - 2): 06 November 2010

SIGNATURE:

D. Campbell

DATE: 13 November 2009

The EC Weighbridge Verification Certificate complies with the UK Weighing Federation Code of Practice for Non Automatic Weighing Instruments and is carried out in conjunction with the Council Directive 90/384EEC confirming to EN 45501 Clause 8.2 for Indicators with a higher resolution test button.

Master
Site
TSO

EC WEIGHBRIDGE VERIFICATION CERTIFICATE NO : SO 5692-C2

CUSTOMER: Thorntons Recycling
SITE ADDRESS: Dunboyne
Co. Meath

APPROVAL CERTIFICATE NO: FC-01-A-005
INDICATOR TYPE: I300 (X222)
INDICATOR TEST CERT. NO: TC LNE No 03.03
INDICATOR SERIAL NO: 02F742651

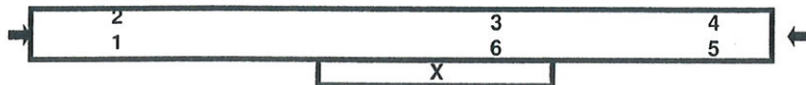
SERVICE REPORT NO: 9700
MANUFACTURER: Precia Molen
WEIGHBRIDGE TYPE: Overground
PLATFORM SIZE: 15 X3
WEIGHBRIDGE LOCATION: Exit

MAXIMUM CAPACITY (kg): 50000
DIVISION (e) (kg): 20
LOADCELL TEST CERT.: R60/2000-DE-03.02
PRINTER SERIAL NO:
TARE FACILITY: Disabled

Accuracy of Zero, Linearity/Hysteresis, Discrimination & Comparison Tests = *

Approximate Test Interval (e)	MPE (e)	Actual Load (kg)	Indicator Up	Display Error (e)	True Error (e)	Indicator Down	Display Error (e)	True Error (e)	Discrimination	Comparison	
Zero	0.25	0	0	0.0		0	0.0				
2	0.25	40	40	0.0		40	0.0				
50	0.50	1040	1040	0.0	0.00	1040	0.0	0.00	Yes	Yes	
500	0.50	10040	10042	0.1	0.10	10040	0.0	0.00			
1000	1.00	20040	20044	0.2	0.20	20042	0.1	0.10			
SL		20040	20044								
1250	1.00	25040	25042	0.1	0.10	25042	0.1	0.10	Yes	Yes	
2000	1.00	40040	40042	0.1	0.10	40044	0.2	0.20			
SL		40040	40042								
2250	1.50	45040	45044	0.2	0.20	45044	0.2	0.20	Yes	Yes	
			PASSED	Yes				FAILED	No		

SL - Substitute Load



X = INDICATOR
ECCENTRIC LOAD TEST - MPE (e): 0.5

COMPARISON TEST

Printer	N/A
Remote Display	N/A
PC	Yes
Other	N/A
Passed	Yes
FAILED	No

Position	1	2	3	4	5	6	7	8	9	10	11	12	
Test Load	10040	10040	10040	10040	10040	10040							
Indicator	10042	10042	10040	10044	10044	10040							
Error	0.1	0.1	0.0	0.2	0.2	0.0							
PASSED						Yes	FAILED						No

REPEATABILITY TEST
50% - MPE 1.0e
90% - MPE 1.5e

	Indication	Indication	Indication
50%	25042	25044	25042
90%	45044	45042	45044
PASSED	Yes	FAILED	No

ROLLING LOAD TEST
0.8 of Max Capacity - MPE 1.0e

	END	MIDDLE	END
	Indication	Indication	Indication
→	45042	45044	45044
←	45042	45044	45042
PASSED	Yes	FAILED	No

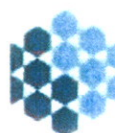
ENVIRONMENTAL CONDITIONS: Wet
TEST WEIGHTS USED: Precia Molen Ireland Limited
VERIFICATION DATE: 06 November 2009

AUTHORISED ENGINEER: Milly Perry
CERTIFICATE NO: T206376
NEXT CALIBRATION DATE (LEVEL - 2): 06 November 2010

SIGNATURE: *D. Connolly*

DATE: 13 November 2009

The EC Weighbridge Verification Certificate complies with the UK Weighing Federation Code of Practice for Non Automatic Weighing Instruments and is carried out in conjunction with the Council Directive 90/384EEC conforming to EN 45501 Clause 8.2 for Indicators with a higher resolution test button.



Precia Molen Ireland Ltd
Ashbourne Business Park
Ashbourne
Co Meath

176 Newtownbreda Road
Belfast BT8 6QS
Tel: 028 9025 3918
Textphone: 028 9025 3988
Fax: 028 9025 3953
Email: eric.giboney@detini.gov.uk
Our Ref: T 206376
13 March 2009

CERTIFICATE OF CALIBRATION

Issued by the Trading Standards Service of the
Department of Enterprise, Trade and Investment

Certificate Number: T 206376

Date of Calibration: 13 March 2009

Identification: PM01 – PM28 less PM3, PM5, PM13, PM14 and PM18

Description: Set of 21 block weights each of nominal value 1000kg and 2 block weights each of nominal value 250kg.

Calibration Method: The weights were tested by comparison with weights derived from the Department's Local Standard Weight Set Number 2294 which has been certified by UKAS Accredited Laboratory number 0338 (Certificate number 01322 refers)

Result: The "measured value" represents the determined conventional mass. For a weight taken at 20°C, the conventional mass is the mass of a reference weight of a density of 8000 kg/m³ which it balances in air of density 1.2 kg/m³.

Uncertainty: The uncertainty of measurement quoted is 1/5 of the OIML R47 tolerance for the weight in question. The uncertainty of measurement quoted is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%.

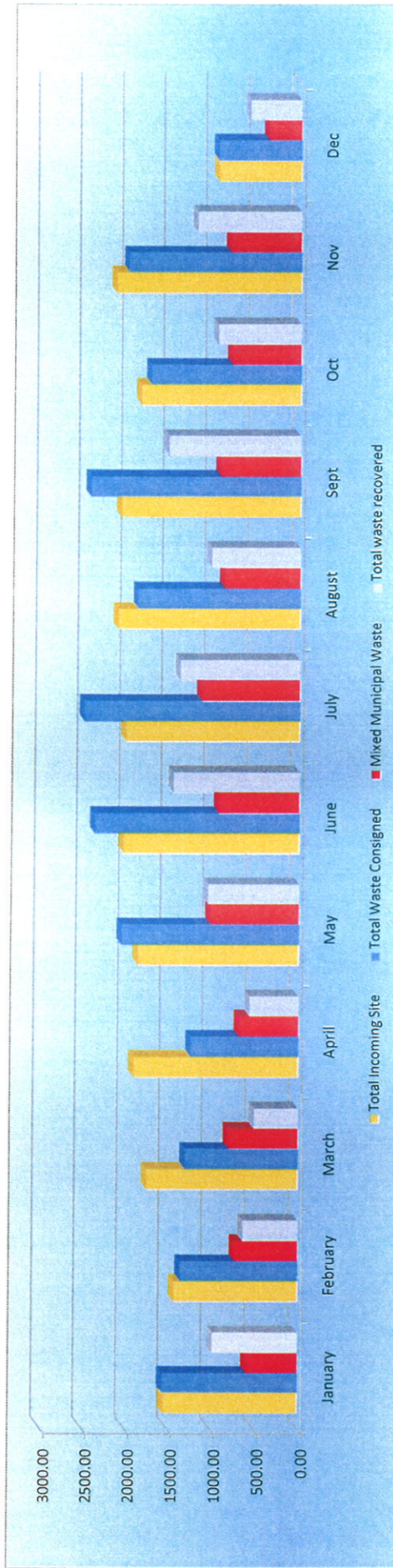
Eric Giboney
Quality Manager



Appendix 3

Dunboyne Statistics Summary 2010

	January	February	March	April	May	June	July	August	Sept	Oct	Nov	Dec	Sum	Annual %
Incoming into MRF	1513.46	1404.06	1708.67	1885.59	1835.84	2013.65	1988.75	2099.77	2069.85	1836.71	2154.50	932.51	21443.36	100.00
Incoming into CA	31.63	22.23	39.98	21.94	31.39	32.12	35.47	27.56	26.11	30.18	16.26	18.48	333.35	
Total Incoming Site	1545.09	1426.29	1748.65	1907.53	1867.23	2045.77	2024.22	2127.33	2095.96	1866.89	2170.76	950.99	21776.71	
Total Waste Consigned	1562.42	1355.98	1304.94	1245.26	2065.8	2389.36	2523.23	1892.7	2461.48	1753.02	2023.1	956.64	21533.93	
Metals	0.68	7.64	51.7	33.98	25.34	7.28	60.31	19.68	42.92	19.74	9.92	24.14	303.33	1.41
Rubbish	88.28	92.58	0	329.32	162.72	378.36	333.66	165.86	416.84	225.44	478.9	208.97	2880.93	13.38
Wood	46.14	59.46	107.5	77.32	89.38	64.02	130.32	63.38	102.04	90.28	63.86	21.95	915.65	4.25
Glass Bottles	5.05	9.78	8.94	0	7.26	5.98	6.96	9.86	0	13.78	0	8.08	75.69	0.35
Trommel Fines	805.81	458.88	301.6	98.54	744.42	998.04	839.94	759.54	936.44	590.58	651.18	307.32	7492.29	34.79
Mixed Dry Recyclables	15.52	0.4	9.34	13.12	5.66	0.76	8.08	3.9	21.98	12.62	0.28	15.74	107.40	0.50
Mixed Municipal Waste	585.84	724.48	802.14	683.6	1017.74	923.42	1130.86	868.1	920.4	795.92	816.52	370.18	9639.20	44.76
Gas Cylinders	0.94	0	0	0	0	0	0.92	0	0.44	1.94	0	0	4.24	0.02
Batteries	0	0	0.98	0	0	0	0	0	0	0	0	0	0.98	0.00
WEEE	14.16	2.76	17.36	9.38	13.28	11.5	12.18	2.38	14.78	2.72	2.44	0.26	103.20	0.48
Tyres	0	0	5.38	0	0	0	0	0	5.64	0	0	0	11.02	0.05
Total waste recovered	976.58	631.5	502.8	561.66	1048.06	1465.94	1392.37	1024.6	1541.08	957.1	1206.58	586.46	11894.73	100.00
Monthly Recycling rate of total waste (%)	62.50	46.57	38.53	45.10	50.73	61.33	65.18	54.13	62.61	54.50	59.64	61.30		
Monthly Landfilled (%)	1.04	2.50	7.44	5.19	3.70	2.33	3.92	1.91	1.53	1.39	0.60	1.15		
Monthly to Killeen Road (%)	36.46	50.93	54.03	49.71	45.57	36.32	40.89	43.95	35.86	44.01	39.76	37.55		

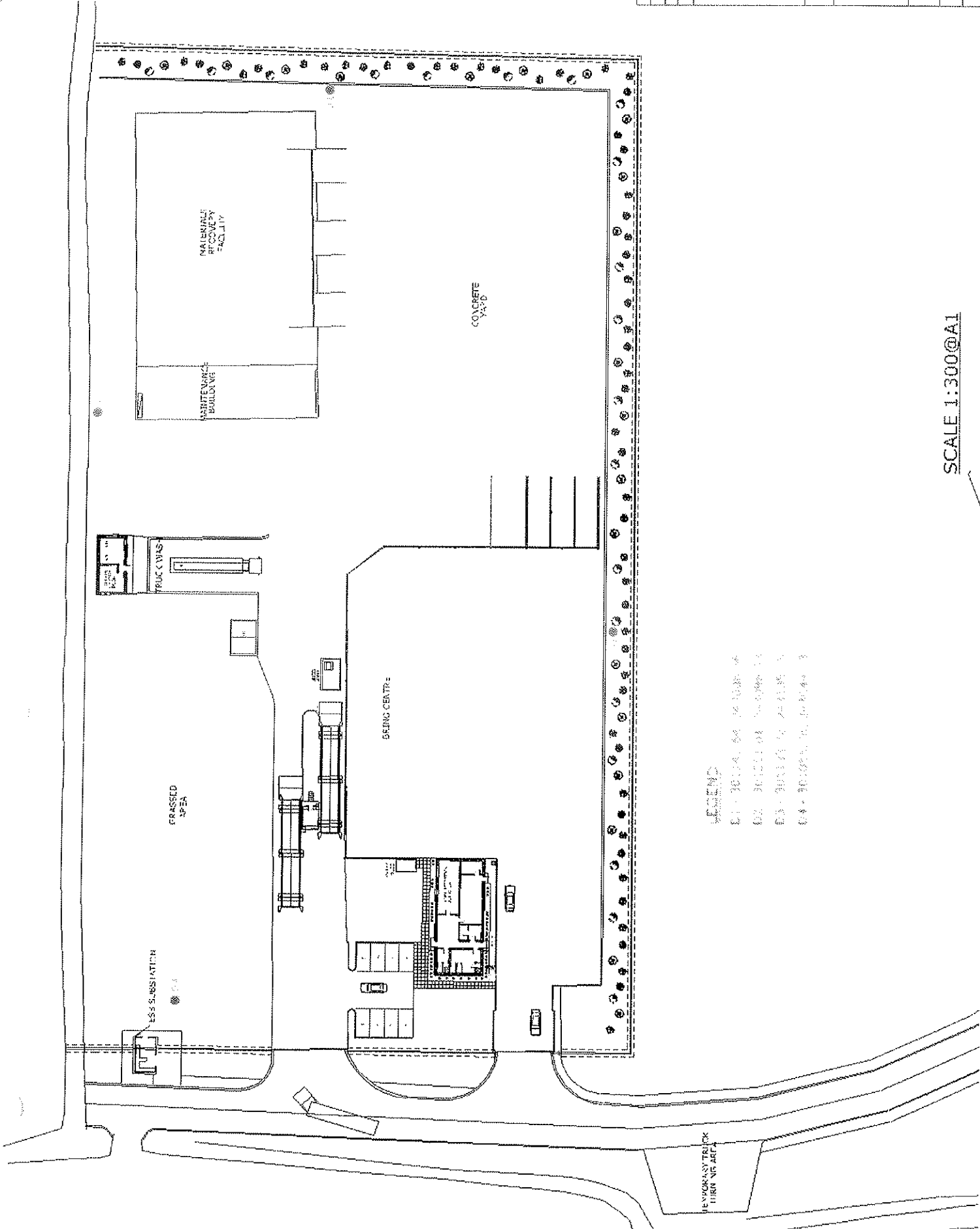
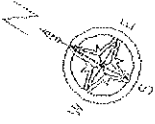


Dunboyne Waste Statistics 2010

EWC	Material Received	January	February	March	April	May	June	July	August	Sept	Oct	Nov	Dec	Sum	%
20 03 07	Bulky MMW/ Skip Waste	1179.51	1179.15	1329.15	1447.17	1534.76	1741.19	1589.61	1640.96	1417.49	1405.00	1370.84	843.90	16678.73	77.78
15 01 03	Wood Packaging	59.00	27.42	43.82	23.18	58.82	58.14	60.50	25.28	48.51	45.50	30.10	26.26	506.53	2.36
17 02 01	Wood C&D Waste Wood	7.28	12.24	15.79	45.80	9.50	2.36	1.64		16.85		8.22	2.78	122.46	0.57
19 12 07	Wood processed or chipped	1.88		1.80		9.38								13.06	0.06
20 01 39	Mixed Plastic		0.46	1.08				2.68			0.93			5.15	0.02
20 01 99	Mixed Dry Recyclables	1.86	1.00		0.71	1.10	2.17		0.80	0.22	1.60			9.46	0.04
17 01 07	Clean Construction Rubble													0.00	0.00
17 05 04	Soil and Stone	22.54		4.06	107.16	73.78	54.16	117.24	118.98	149.85	87.60	46.88		782.25	3.65
17 09 04	Mixed C&D Waste	231.45	152.64	301.65	237.80	136.13	148.26	207.46	311.20	431.33	291.17	696.93	52.98	3199.00	14.92
19 12 02	Ferrous Metal Mixed Steel	3.78	28.97	11.27	23.77	12.37	4.52	5.86	2.11	5.60	4.91	1.53	6.59	111.28	0.52
16 01 18	Non - Ferrous Metal	6.16		0.05			2.85	3.76	0.44					13.26	0.06
20 01 02	Glass into Site		2.18											2.18	0.01
	Total into MRF Site	1513.46	1404.06	1708.67	1885.59	1835.84	2013.65	1988.75	2099.77	2069.85	1836.71	2154.50	932.51	21443.36	100.00
15 01 02	Mixed Plastic Bottles C.A	0.50	0.40	0.50	0.40	0.52	0.76		0.76	0.38	0.74	0.28	0.40	5.64	
15 01 04	Aluminium C.A	0.68		0.46		0.40			0.70				0.70	2.94	
15 01 05	Tetra- Pak C.A	0.42	0.24	0.36	0.26	0.24	0.40	0.46	0.30	0.58	0.26	0.12	0.30	3.94	
15 01 01	Cardboard C.A	3.74	3.82	3.92	4.52	3.06	4.84	4.88	3.22	4.00	5.12	4.46	3.85	49.43	
19 12 04	Mixed Plastic Film C.A	1.66	0.96	1.66	1.62	1.80	2.16	4.96	4.66	2.48	2.00	3.16	0.96	28.08	
20 01 01	Mixed paper C.A	3.92	2.98	4.96	4.12	3.88	4.80	4.78	4.78	2.90	4.14	4.66	2.81	48.73	
20 01 40	Metallic packaging Steel C.A	0.68												0.68	
20 01 10	Clothes	0.82	1.29	0.84	1.64	0.95	1.68	1.25	0.90	0.99	1.42	1.14	1.12	14.04	
16 06 01*	Batteries			0.98										0.98	
15 01 07	Glass Packaging (Bottles)	5.05	9.78	8.94		7.26	5.98	6.96	9.86		13.78		8.08	75.69	
16 02 11	WEEE Fridges and Freezers	13.26	2.32	16.64	8.54	11.92	10.86	11.52	1.6	14.56	1.34	1.42		93.98	
16 02 14	Mixed SDA WEEE	0.90	0.44	0.72	0.84	1.36	0.64	0.66	0.78	0.22	1.38	1.02	0.26	9.22	
	Total into CA Site	31.63	22.23	39.98	21.94	31.39	32.12	35.47	27.56	26.11	30.18	16.26	18.48	333.35	
	Total For Site MRF and CA	1545.09	1426.29	1748.65	1907.53	1867.23	2045.77	2024.22	2127.33	2095.96	1866.89	2170.76	950.99	21776.71	

Appendix 4

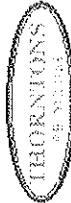
NOTES:



LEGEND

- 01 - 30' DIA. 6" DEPTH
- 02 - 30' DIA. 18" DEPTH
- 03 - 30' DIA. 24" DEPTH
- 04 - 30' DIA. 36" DEPTH

NO.	DESCRIPTION	DATE	BY	CHKD.



THORNHORN'S ENGINEERS
 1000 WEST 10TH AVENUE
 DENVER, COLORADO 80202
 (303) 733-1111

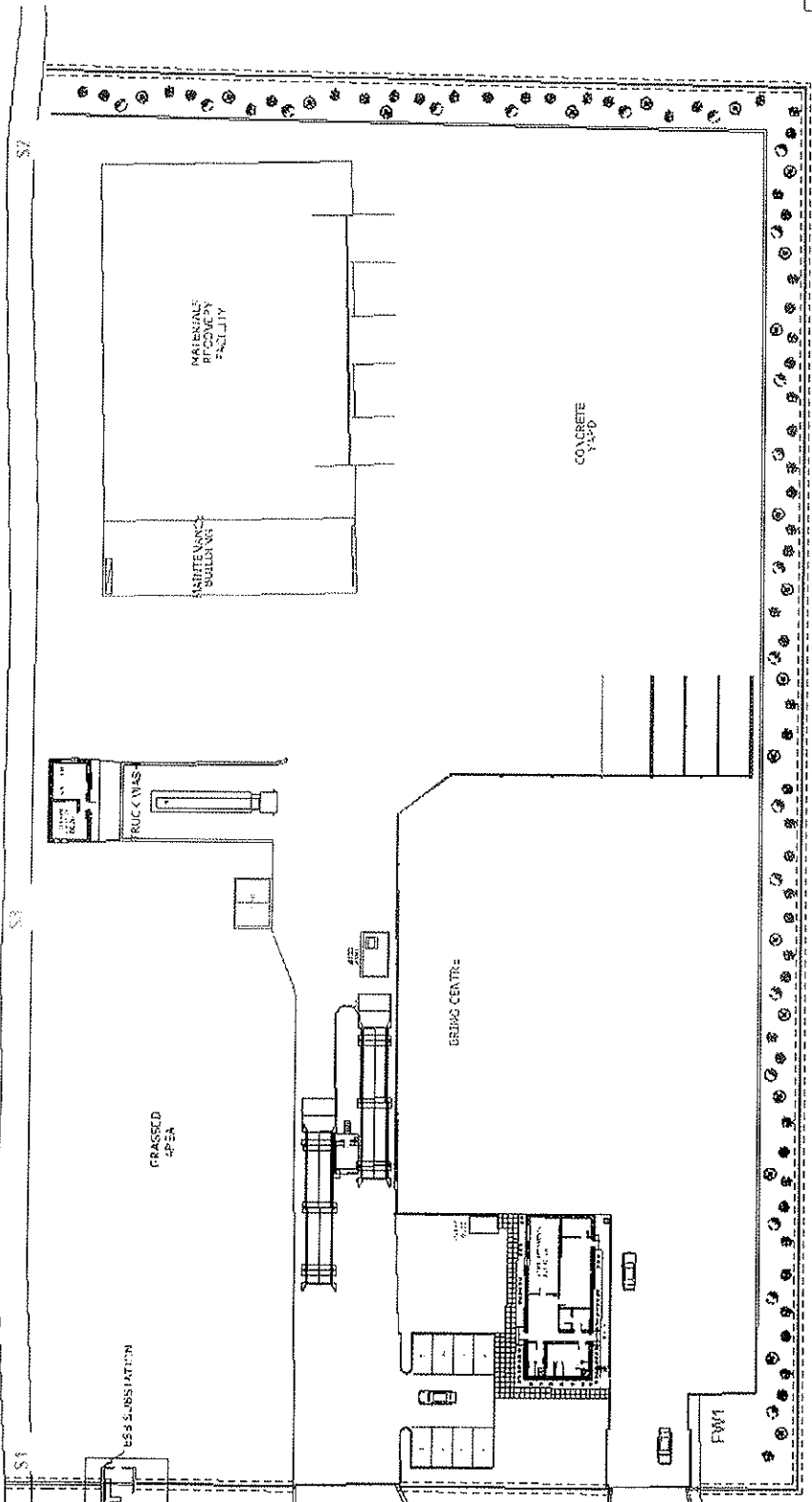
SITE LAYOUT	
DUNSTON RECYCLING CENTER	
SHEWING BLIST MONITORING POINT	
LOCATIONS	
AS SHOWN	6/6/2005
03	7

SCALE 1:300@A1

Appendix 5

Appendix 6

NOTES:



Legend

- FW1 Foul water discharge sampling point
- S3 Surface water discharge sampling point
- S1 Sampling Point
- S2 Sampling Point

TEMPORARY TRUCK TURNING AREA

PROJECT INFORMATION		DATE	SCALE	BY	CHECKED
PROJECT NAME		DATE	SCALE	BY	CHECKED
PROJECT NO.		DATE	SCALE	BY	CHECKED
PROJECT LOCATION		DATE	SCALE	BY	CHECKED
PROJECT DESCRIPTION		DATE	SCALE	BY	CHECKED



HONNAY'S RECYCLING
 MILLER ROAD, DUBLIN 11
 TEL: 01-452 05 00 FAX: 01-452 05 01
 www.honnaysrecycling.com

SITE LAYOUT		DATE	SCALE	BY	CHECKED
PROJECT NAME		DATE	SCALE	BY	CHECKED
PROJECT NO.		DATE	SCALE	BY	CHECKED
PROJECT LOCATION		DATE	SCALE	BY	CHECKED
PROJECT DESCRIPTION		DATE	SCALE	BY	CHECKED

SCALE 1:300@A1

Appendix 7

PM03- F01 Management Programme 2010

COMPLETED		CARRY FORWARD FROM 2009		ON HOLD		STARTED IN 2010			
Ref Number	Date	Type	Objective and Target	Location	Responsibility	Method	Time Frame	Status	
ENVIRONMENTAL									
EP 01	Jan-09	Environmental	Site Expansion to 40,000 tonnes	Kilmahamwood	TMCD/MF	1. Meeting with EPA 2. Meeting with MCC re planning 3. Appoint consultants 4. Prepare MCC 5. Prepare landscape plan to be completed as part of the new expansion	Dec-10	Started Work in Progress. Planning received Feb 10. ABP appeal top be completed. Licence lodged and May 10. Awaiting decision from ABP.	
EP 02	Jan-09	Environmental	Landscape Plan to be completed at Kilmahamwood Composite re conditions of the planning	Kilmahamwood	TMCD	1. Quoted for consultants and assess same 2. Appoint Consultant 3. Tender out the installation of technology 4. Assess options available 5. Installation	Dec-10	Not Started - Plans previously drawn up from initial planning. awaiting new planning permission from ABP before commence the landscape plan	
EP 03	Jan-09	Environmental	Upgrade of odour system - Investigate possibility of scrubber etc	Kilmahamwood	TMCD	1. Quoted for consultants and assess same 2. Appoint Consultant 3. Tender out the installation of technology 4. Assess options available 5. Installation	Jun-10	Workstream approved work to commence and May 10. Works to complete and October 2010. Commissioning and EPA.	
EP 04	Jan-10	Environmental	PDM - Permit review (due in August 2010, covered to be effective by August 2010 on mention to renew. Feasibility study to be carried out. Blowing to be received for reblow)	PDM	MK	1. Complete feasibility study on PDM 2. Look at alternatives	Dec-10	Started P & L completed. Met two other wood processors re gate fee final decision week one April 10. Will try and get extension for planning permission on site. MK to do permit and Consultants employed for planning. Both lodged awaiting permit decision and planning permission. Permit remain RFI to be sent in by March 2011.	
EP 05	Jan-10	Environmental	Anaerobic Digestion Study	Kilmahamwood	MK/TMCD/TR	1. Obtain Quotes 2. Carry out Feasibility Study	Dec-10	Started TMCD project Manager Team internally appointed. Final report and June 10	
EP 06	Jan-10	Environmental	Energy Systems/ Natural Resource Consumption	All Sites	MKDD	1. Energy study to see if we can reduce resource consumption on all sites	Quarterly Review	Started Kilmahamwood, Head Office and Kilmarnock. Team appointed internally. Jan 10. DD appointed as Project Manager	
EP 07	Mar-10	Environmental	Energy Alternative	All Sites	MK	1. SRF site 2. On site tests use power production	Dec-10	Alternative power plants. Met BEC Oct 2010. site with again all Dec 2011 to acquire material and start testing to be carried out on quality with power production. Kilmahamwood, Kilmarnock and Kilmahamwood. Markets for outlets. Looking for production. Sept 2010 to assess engineering and report on SRF production increase and quality. Dec 2010 no other outlet required for volume we are producing in 2011	
EP 08	Jan-10	Environmental	SRF Quality Development - New waste additions, SRF Additional Outlet	Kilmarnock	MKDD	1. Assess developments of additional material to the line and new additions, monitor quality and report. On site to be monitored closely on material	Dec-10		
EP 09	Jan-10	Environmental	SRF Storage Facility - CORP/Permit	New Facility	MKDD	1. Apply to SDCD for CORP/Permit for storage building 2. Obtain quotes for SRF materials in event of breakdowns contingency plan	May-10	Logged with SDCD awaiting permit from SDCD - Permit rejected awaiting decision from PIR re same. Decision not to progress on building as Kilmarnock may change and will use 61 for storage of SRF	
EP 10	Jan-10	Environmental	Waste Acceptance Procedures - Training Refresher for office staff	All Sites	MKDD/Kilmarnock	1. Organise ground for tours of Kilmarnock 2. Training to incorporate the importance of attention to detail, show staff how errors affect business and end up as credit notes	Dec-10	Draft presentation and started in 2010 to train on site staff in Kilmarnock	
EP 11	Jan-10	Environmental	ELV Expansion on Permit	ELV	DD/MK	1. Await decision from Garra contract	Dec-10	Not tender awarded ELV expansion not required Dec 2010	
EP 12	Jan-10	Environmental	Fleet audit	All Sites	DD/MK	1. Review paperwork in trucks in line with new national permit, received on the 26th March 2010	Jun-10	WIP - Student hired for summer to assist in paperwork at Kilmarnock will be carried out then. Completed	
EP 13	Jan-10	Environmental	Environmental Drawings - Update all required	All Sites	Team	1. Hire in Doughty person to update all drawings	May-10	Started 26th March 2010. Stephen Shullin employed to update drawings etc. Completed	
EP 14	Jan-10	Environmental	EHS Newsletter	All Sites	Team	1. New newsletter to be developed for website, generic	Dec-10	WIP	
EP 15	Mar-10	Environmental	Food Rags Newsletter	All Sites	Team	1. Specific materials to food producing customers email	Apr-10	Completed - Emailed with invoices in April. Not saved in Environmental guidance folder.	
EP 16	Jan-10	Environmental	Riseak Studies	Kilmarnock	MKDD	1. Riseak reference Studies required later end of 2010	Dec-10	Not Started not requested by Riseak in 2010	
EP 17	Aug-09	Environmental	Inspection/Sampling Chamber to be created on Surlock Water discharge as S3	Dunboyne	TR	1. TR to investigate best sampling method to ensure we obtain a representative sample 2. Purchase additional pipework 3. Test and ensure works	Jun-10	Completed	
EP 18	Aug-10	Environmental	Development of new site for Mixed Dry recyclables - Technics building	Technics Building	MK	1. Assess planning and tests covered 2. Meet DCC re planning and permit 3. Permit application internal 4. Planning application through one51 5. Turmec doing design on plant	Dec-10	Met DCC in Sept 10. Permit application in error. cannot lodge until receive section 5 validation	
HEALTH AND SAFETY									
H&S 01	Jan-10	H&S	Opening site audits for all Themes, Recycling Personnel (Inclusion Training, Manual Handling, etc)	All Sites	H&S Manager	1. Draft H&S training dates for all sites 2. Schedule audits for all sites 3. Update and review Biannual	Dec-10	WIP All files updated through HR dept in TMS system	

PM03- F01 Management Programme 2011

COMPLETED		CARRY FORWARD FROM 2010		ON HOLD			
Ref Number	Date	Type	Objective and Target	Location	Responsibility	Method	Time Frame Status
ENVIRONMENTAL							
EP 01	Jan '09	Environmental	Site Expansion to 40,000 tonnes	Kinairhamwood	TWCD/MF	1 MCC planning received Feb 2010 2 ABP Appeal lodged March 2010 3 Lodged licence with EPA in May 2010	Jun-11 Started - Work in Progress. Planning received Feb '10 ABP appeal top be completed Licence lodge end May '10. Awaiting decision from ABP and the EPA
EP 02	Jan-09	Environmental	Landscape Plan to be completed at Kinairhamwood Compost re conditions of the Planning	Kinairhamwood	TWCD	1 Kinairhamwood landscape plan to be completed as part of the new expansion.	Jun-11 Not Started - Plans previously drawn up from initial planning - awaiting new planning conditions from ABP before commence the landscape plan
EP 03	Jan '09	Environmental	Upgrade of odour system and installation of an acid scrubber to improve efficiencies - Investigate possibility of scrubber etc	Kinairhamwood	TWCD	1 Simeadean Appointed	Feb-11 Simeadean appointed commissioning and handover to be completed by Feb 2011
EP 04	Jan '10	Environmental	PDM - Permit renewal applied for and planning retention for change of use	PDM	MK	1 Planning Lodged 2 Permit lodged	Jun-11 RFI for planning to be sent in by 05/03/11 permit cannot be issued until planning is finalised
EP 05	Jan'11	Environmental	To put up dust curtains on the new roofed area of the CID line	Killeen road	DD	1 Attach dust curtains	April'11 Not started
EP 06	Jan '11	Environmental	Energy Systems/ Natural Resource Consumption - Management Systems	All Sites	MK/DD	1 Energy Study completed in 2010 2 Recommendations from study to be implemented on all sites	Quarterly Review Not Started for 2011
EP 07	Jan '11	Environmental	SRF Development	Killeen road	MK/DD	1 Assess developments of additional material to the line and new additions, monitor quality and report.	Jun-11 Started - Third Party Contractor assisting with development - New procedures etc to be put in to place for pre setting
EP 08	Jan '11	Environmental	Waste Acceptance Procedures - Training Refresher for staff	Head Office	MK/DD Killeen Road	1 Organise groups for tours of Killeen Road - Presentations to groups on different waste types etc 2 Training to incorporate the importance of attention to detail on WIMS, show staff how errors affect business and end up as credit notes	Jun-11 Started - Draft presentation completed
EP 09	Jan '11	Environmental	Waste Collection Permit - Fleet audit, All Sites	All Sites	DD/MK	1 Review paperwork in trucks in line with national permit.	Jun-11 Not Started
EP 10	Jan '11	Environmental	Shredding Permit	Shredding	MK	1 Renewal of Permit notify DCC in Feb 2011	Feb-11 Started
EP 11	Jan '11	Environmental	Dunboyme - Review of Environmental Files on site	Dunboyme	MK	1 Complete Environmental Review of Licence and site issues	Feb-11 Not Started
EP 12	Jan '11	Environmental	Environmental Guidance File for all Staff - Legal register	All Sites	MK	1 Complete Environmental Review of Guidance files and Environmental Legal Register - Required for Internal communications and ISO14001 register	Dec-11 Not Started
EP 13	Jan '11	Environmental	ISO Development - successfully pass two certification europe audits for ISO14001	All Sites	MK/DD	1 IMS in place review and ensure all procedure, policies and plans are up to date 2 Management Review to be completed on IMS for 2010	Dec-11 Ongoing
EP 14	Jan-11	Environmental	ELV Review of Environmental files on site	ELV	DD	1 Complete review of the files for 2010 on site in Review of the permit conditions	Mar-11 Not started
EP 16	Jan-11	Environmental	Carry out an updated energy audit on Killeen road and incorporate the findings into the Objectives and targets	Killeen road	DD	1 Revise and update the previous energy audit 2 Update the energy register 3 Incorporate the energy register into the Objectives and targets	Jun-11 Started
EP 17	Aug-10	Environmental	Development of new site for Mixed Dry recyclables - Techrec building	Techrec Building	MK	1 Meet DCC re planning and permit 2 Permit application Internal completed and lodged 3 Planning re lodge	Apr-11 Started Permit Lodged Planning in process to be lodged Feb 2011 New systems to be put in place for MDR on receiving Permit and Planning
HEALTH AND SAFETY							

Appendix 8

15 July, 2010

Re: Padraig Thornton Waste Disposal Ltd and Thornton Recycling Centre Ltd**To Whom It May Concern:**

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 as described (**Waste Collection, Recycling and Disposal and Property Owners**) during the period of Insurance.

Insurers: FBD plc
Policy No.: 00433053/04/01
Renewal Date: 1st July 2011

Limit of Indemnity:

€13,000,000 any one occurrence inclusive of all costs and expenses.

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.: 00433053/04/01
Renewal Date: 1st July 2011

Limit of Indemnity:

Public Liability €2,600,000 any one accident
Products Liability €2,600,000 any one period

Motor Insurance

Covers the Insured's Liability to Third Parties for vehicles being used in connection with the insured's business. Personal Injury cover is unlimited and Third Party Property Damage limit is €1,300,000 and €30,000,000 for private cars.

Insurers: FBD Insurance Plc
Policy No: 00433053/22/01
Renewal Date: 1st July 2011

Excess Public/Products Liability, Motor TPPD and Employer's Liability

Insurers: QBE
Policy No.: TBA
Renewal Date: 1st July 2011

Limit of Indemnity:

Increases the underlying limits up to a maximum of €12.5m, €6.5m and €20m respectively.
Cover follows the underlying policy and is subject to Insurers policy terms and conditions.
All policies include Indemnity to Principals Clause applies to all policies.

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

Yours sincerely


Fergal Britton
Service Executive



Guidance to completing the PRTR workbook

AER Returns Workbook

Version: 1.1.1

REFERENCE YEAR 2010

1. FACILITY IDENTIFICATION

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

Waste or IPPC Classes of Activity	No. class name
	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage.
4.1.3	pending collection, on the premises where such waste is produced.
	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.1.1	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.1.2	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.
3.1.3	Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.
4.1.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.2	Recycling or reclamation of metals and metal compounds.
4.3	Recycling or reclamation of other inorganic materials.
4.4	
Address 1	Dunboyne Industrial Estate
Address 2	
Address 3	Co Meath
Address 4	
Country	Ireland
Coordinates of Location	8.47927 53.4281
River Basin District	IEEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Mercedes Kavannah(W0206)
AER Returns Contact Email Address	mercedes@thorntons-recycling.ie
AER Returns Contact Position	Group Environmental Manager
AER Returns Contact Telephone Number	01 6235133
AER Returns Contact Mobile Phone Number	085-8241034
AER Returns Contact Fax Number	01 6235131
Production Volume	50000.0
Production Volume Units	Tonnes
Number of Installations	1
Number of Operating Hours in Year	2496
Number of Employees	2
User Feedback/Comments	
Web Address	www.thorntons-recycling.ie

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
501	General
502	Installations for the disposal of non-hazardous waste
503	General

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

Is it applicable? (No)	
Have you been granted an exemption? (No)	
If applicable which activity class applies (as per Schedule 2 of the regulations)?	
Is the reduction scheme compliance route being used?	

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

PRTR Ref: W0236 Facility Name: Padraig Thornton Waste Disposal Ltd Reference: W0236-2013 Emissions & Releases 2014-15 Review Year: 2016

03/02/2017 12:55

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

No. Annex II Pollutant	Name	METHOD		Please enter all quantities in this section in KGs				QUANTITY				
		M/C/E M	Description or Description OTH	D1 Emission Point 1	D2 Emission Point 2	D3 Emission Point 3	D4 Emission Point 4	T (Total) Emission Point 5	A (Accidental) KG/Year	F (Fugitive) KG/Year		
36 - Particulate matter (PM10)	PM10 - Fine Particulates			0.00000056	0.00000152	0.00000143	0.00000059	0.0	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

No. Annex II Pollutant	Name	METHOD		Please enter all quantities in this section in KGs		QUANTITY	
		M/C/E M	Description or Description OTH	T (Total) Emission Point 1	F (Fugitive) Emission Point 2	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 No.	Name	METHOD		Please enter all quantities in this section in KGs				QUANTITY		
		M/C/E M	Description or Description OTH	D1 Emission Point 1	D2 Emission Point 2	D3 Emission Point 3	D4 Emission Point 4	T (Total) Emission Point 5	A (Accidental) KG/Year	F (Fugitive) KG/Year
210	Duct			0.03	0.04	0.04	0.02	0.13	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	METHOD		Designation or Description	Facility Total Capacity m3 per hour
		M/C/E	Method Code		
Padraig Thornton Waste Disposal Ltd	T (Total) kg/Year				
	Total estimated methane generation (as per site model)	0.0		N/A	
	Methane flared	0.0		0.0 (Total Flaring Capacity)	
	Methane utilised in engines	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# 40205 | Facility Name: Pusaig Thornton Waste Disposal Ltd | Facility Name: 40205_2010.Dump/yr/Return-2011.kg | Return Year: 2010]

18/04/2011 12:15

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 fi:

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		RELEASES TO WATERS		QUANTITY			
No. Annex II	Name	M/C/E	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		QUANTITY			
No. Annex II	Name	M/C/E	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		QUANTITY			
Pollutant No.	Name	M/C/E	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 42205 Facility Name: Faraj Thompson Wash Deposit 01 Emission: WQW_2012

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER		METHOD		Please enter all quantities in this section in KGs			
No. Annex II	POLLUTANT	M/C/E	Method Code	Method Used	QUANTITY		
					T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
79	Name						
13	Chlorides (as Cl)	M	PER	Standard method	118179.58	0.0	0.0
71	Total phosphorus	M	PER	Standard method	816.74	0.0	0.0
76	Phenols (as total C)	M	PER	Standard method	152.48	0.0	0.0
	Total organic carbon (TOC) (as total C or COD/3)	M	PER	Standard method	85910.23	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		METHOD		Please enter all quantities in this section in KGs			
Pollutant No.	POLLUTANT	M/C/E	Method Code	Method Used	QUANTITY		
					T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
238	Name						
303	Ammonia (as N)	M	PER	Standard method	11430.95	0.0	0.0
305	BOD	M	PER	Standard method	56213.24	0.0	0.0
308	COD	M	PER	Standard method	257730.69	0.0	0.0
314	Detergents (as MBAS)	M	PER	Standard method	403.75	0.0	0.0
327	Fats, Oils and Greases	M	PER	Standard method	2948.13	0.0	0.0
343	Nitrate (as N)	M	PER	Standard method	6664.93	0.0	0.0
347	Sulphate	M	PER	Standard method	530479.32	0.0	0.0
240	Total heavy metals	M	PER	Atomic Absorption/ICP	341960.49	0.0	0.0
	Suspended Solids	M	PER	Gravimetric	123505.1	0.0	0.0

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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

[PRTR# : W0200] Facility Name : Padang Thornton Waste Disposal Ltd [Emissions : W0200_2010] Duty/Year Return 2011 kg [Return Year : 2010]

18/04/2011 12:15

SECTION A : PRTR POLLUTANTS

POLLUTANT		METHOD		QUANTITY	
No. Annex II	Name	M/C/E	Method Used <i>Designation or Description</i>	T (Total) KG/Year	A (Accidental) KG/Year
				0.0	0.0

RELEASES TO LAND

Please enter all quantities in this section in KGs

* 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)

POLLUTANT		METHOD		QUANTITY	
Pollutant No.	Name	M/C/E	Method Used <i>Designation or Description</i>	T (Total) KG/Year	A (Accidental) KG/Year
				0.0	0.0

Please enter all quantities in this section in KGs

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

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 Next Destination Facility	Name and License / Permit No. and Address of Final Receiver / 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	19 12 02	No	183.57	ferrous metal	R4	M	weighed	Offsite in Ireland	National Recycling WPR 002	Station Road Clondalkin, Dublin, Ireland		
Within the Country	19 12 02	No	83.72	ferrous metal	R4	M	weighed	Onsite in Ireland	Hammond Lane, WP98107	Pigeon House Road, Dublin, Ireland		
Within the Country	16 01 18	No	30.22	non-ferrous metal	R4	M	weighed	Offsite in Ireland	Multimetals Recycling Ltd, ESS/15/8/12319	Blessington, Wicklow, Ireland		
Within the Country	16 01 18	No	1.08	non-ferrous metal	R4	M	weighed	Offsite in Ireland	Multimetals Recycling Ltd, ESS/15/8/12319	Blessington, Wicklow, Ireland		
Within the Country	15 01 04	No	2.94	metallic packaging mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17	R4	M	weighed	Offsite in Ireland	Padraig Thornton Waste Disposal Ltd, W0044-02	road, Ballyfermot, Dublin 10, Ireland		
Within the Country	17 01 07	No	299.39	wood other than that mentioned in 19 12 06	D5	M	weighed	Offsite in Ireland	Kierman Sand and Gravel, WMP200722	Foxtown, Summerhill, Co Meath, Ireland		
Within the Country	19 12 07	No	915.65	wood other than that mentioned in 19 12 06	R3	M	weighed	Offsite in Ireland	Padraig Thornton Waste Disposal Ltd, 291/2007	Kill, Co Kildare, Ireland	Enva Ltd, xxx, Campine, Belgium	
Within the Country	16 05 01	Yes	0.98	lead batteries	R13	M	weighed	Offsite in Ireland	Enva Ltd, W0184-01	ballymount Avenue Clondalkin, Dublin 22, Ireland		
Within the Country	19 12 05	No	75.69	glass	R13	M	weighed	Offsite in Ireland	Rehab Recycling, WPR004	Dreid Landfill, Co Kildare, Ireland		
Within the Country	19 12 09	No	1816.9	minerals (for example sand, stones)	R5	M	weighed	Offsite in Ireland	Bord na Mona, W0201-02	Kill, Co Kildare, Ireland		
Within the Country	19 12 09	No	2324.96	minerals (for example sand, stones)	R5	M	weighed	Offsite in Ireland	Atturstown Landfill, W0004-03	Knockharley, Keshinstown, Co Meath, Ireland		
Within the Country	19 12 09	No	3350.43	minerals (for example sand, stones)	R5	M	weighed	Offsite in Ireland	Greenstar Ltd, W0145-02	Kill, Co Kildare, Ireland		
Within the Country	20 03 01	No	101.76	mixed municipal waste	R13	M	weighed	Onsite in Ireland	Padraig Thornton Waste Disposal Ltd, W0044-02	road, Ballyfermot, Dublin 10, Ireland		
Within the Country	20 01 39	No	5.64	plastics	R13	M	weighed	Offsite in Ireland	Padraig Thornton Waste Disposal Ltd, W0044-02	Killean, road, Ballyfermot, Dublin 10, Ireland		
Within the Country	20 03 01	No	564.18	mixed municipal waste	D1	M	weighed	Offsite in Ireland	Bord na Mona, W0201-02	Dreid Landfill, Co Kildare, Ireland		
Within the Country	20 03 01	No	9075.02	mixed municipal waste	D15	M	weighed	Offsite in Ireland	Padraig Thornton Waste Disposal Ltd, W0044-02	Killean, road, Ballyfermot, Dublin 10, Ireland		
Within the Country	16 01 03	No	11.02	end-of-life tyres	R13	M	weighed	Offsite in Ireland	Padraig Thornton Waste Disposal, WFP-DC-09-0005-01	Kylmore Park Longmile Road, Crumlin, Dublin, Ireland		
Within the Country	16 05 05	No	3.7	gases in pressure containers other than those mentioned in 16 05 04	R13	M	weighed	Offsite in Ireland	Colar gas,			
Within the Country	17 05 03	Yes	0.54	soil and stones containing dangerous substances	R13	M	weighed	Onsite in Ireland	Rialta Environmental, W0192-02	Block 402, Grant Drive, Reenogue Business Park, Rathcoole, Dublin 24, Ireland		
Within the Country	16 02 11	Yes	103.1	discarded equipment containing chlorofluorocarbons, HCFC, HFC	R13	M	weighed	Offsite in Ireland	ERP, W0185-01	Greenogue Business Park, Rathcoole, Dublin 24, Ireland		
Within the Country	19 12 09	No	2860.93	minerals (for example sand, stones)	R5	M	weighed	Offsite in Ireland	Various farmers,	Material sale, Ireland		

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